



TEST REPORT

No.23T04Z80263-04

for

BLU Products, Inc.

Smart Phone

Model Name: B170D

FCC ID: YHLBLUB170D

with

Hardware Version: V1.0

Software Version: BLU_B170D_V14.0.01.05.01.01_FSec

Issued Date: 2023-11-30

Note:

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

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
23T04Z80263-04	Rev.0	1 st edition	2023-11-10
23T04Z80263-04	Rev.1	Added the description “In total, three EUT elevation positions are measured” in P56 added a measurement plot of the worst case PAPR measurement for each band	2023-11-29
23T04Z80263-04	Rev.2	Modified the description about LTE Band2/25, LTE Band4/66 and LTE Band5/26 in chapter 6	2023-11-30

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 American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

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

Location 2: CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2023-10-11
Testing End Date: 2023-11-08

1.5. Signature



Dong Yuan
(Prepared this test report)



Zhou Yu
(Reviewed this test report)



Zhao Hui Lin
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: BLU Products, Inc.
Address /Post: 8600 NW 36th Street, Suite #200, Doral, FL 33166
Contact: Zeng wei
Email: zwei@ctasiasz.com
Telephone: 305.715.7171
Fax: 305.436.8819

2.2. Manufacturer Information

Company Name: BLU Products, Inc.
Address /Post: 8600 NW 36th Street, Suite #200, Doral, FL 33166
Contact: Zeng wei
Email: zwei@ctasiasz.com
Telephone: 305.715.7171
Fax: 305.436.8819

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

3.1. About EUT

Description	Smart Phone
Model Name	B170D
FCC ID	YHLBLUB170D
Antenna	Embedded
Output power	23.45dBm maximum EIRP measured for LTE Band 41
Extreme Voltage	3.6VDC to 4.4VDC (nominal: 3.85VDC)
Extreme Temperature	-10°C to +55°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT19a	359979710001134	V1.0	BLU_B170D_V 14.0.01.05.01.01_FSec	2023-10-11
UT03a	359979710001357	V1.0	BLU_B170D_V 14.0.01.05.01.01_FSec	2023-10-11

*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	C926547500P
Manufacturer	Hunan Gaoyuan Battery Co., LTD
Capacitance	5000mAh

*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	10-1-22 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-22 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-22 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-22 Edition
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

5. Summary of Test Result

LTE Band 12

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

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 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.

The device have similar frequency in some LTE bands: LTE Band2/25, LTE Band4/66 and LTE Band5/26 since the supported frequency spans for the smaller LTE bands are completely covered by the larger LTE bands and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band. therefore, only larger LTE bands were required to be tested.

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 and 64QAM 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.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2024-01-09	1 year
Spectrum Analyzer	FSU	200030	R&S	2024-05-25	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
Spectrum Analyzer	FSV30	R&S	101525	2024-02-11	1 year
Antenna	VULB9163	Schwarzbeck	9163-235	2024- 06- 10	1 year
Antenna	9117	Schwarzbeck	167	2025-08-03	2 year
Antenna	LB-7180-NF	A-INFO	J203001300005	2024-05-25	1 year
Antenna	3115	ETS-Lindgren	00167252	2024-02-28	1 year
Universal Radio Communication Tester	CMW500	R&S	143008	2024-02-03	1 year

Test Item	Test Software	Software Vendor
Emission Limit	ELEKTRA 5.00.2	R&S

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 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.17	22.52	21.40
		707.5	23.19	22.41	21.42
		699.7	23.22	22.47	21.38
	1 RB low	715.3	23.18	22.58	21.48
		707.5	23.20	22.56	21.44
		699.7	23.20	22.59	21.50
	50% RB mid	715.3	23.33	22.36	21.45
		707.5	23.35	22.27	21.44
		699.7	23.35	22.40	21.44
	100% RB	715.3	22.31	21.38	20.29
		707.5	22.32	21.40	20.34
		699.7	22.29	21.36	20.35
3MHz	1 RB high	714.5	23.27	22.61	21.44
		707.5	23.31	22.65	21.50
		700.5	23.33	22.58	21.58
	1 RB low	714.5	23.25	22.66	21.53
		707.5	23.34	22.56	21.55
		700.5	23.36	22.75	21.57
	50% RB mid	714.5	22.42	21.43	20.42
		707.5	22.38	21.49	20.51
		700.5	22.40	21.43	20.51
	100% RB	714.5	22.32	21.33	20.33

		707.5	22.36	21.38	20.40
		700.5	22.36	21.38	20.42
5MHz	1 RB high	713.5	23.10	22.38	21.31
		707.5	23.11	22.45	21.34
		701.5	23.17	22.51	21.28
	1 RB low	713.5	23.10	22.48	21.35
		707.5	23.18	22.36	21.38
		701.5	23.20	22.51	21.41
	50% RB mid	713.5	22.32	21.34	20.34
		707.5	22.31	21.33	20.39
		701.5	22.36	21.38	20.44
	100% RB	713.5	22.26	21.28	20.27
		707.5	22.27	21.29	20.33
		701.5	22.33	21.34	20.39
10MHz	1 RB high	711.0	23.15	22.38	21.33
		707.5	23.16	22.54	21.37
		704.0	23.22	22.36	21.30
	1 RB low	711.0	23.22	22.49	21.52
		707.5	23.27	22.61	21.49
		704.0	23.28	22.51	21.41
	50% RB mid	711.0	22.37	21.39	20.33
		707.5	22.34	21.36	20.41
		704.0	22.37	21.39	20.44
	100% RB	711.0	22.25	21.29	20.27
		707.5	22.32	21.36	20.40
		704.0	22.43	21.43	20.46

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	23.46	22.84	21.77
		782.0	23.44	22.66	21.72
		779.5	23.40	22.70	21.65
	1 RB low	784.5	23.48	22.68	21.73
		782.0	23.46	22.78	21.68
		779.5	23.36	22.63	21.64
	50% RB mid	784.5	22.67	21.75	20.74
		782.0	22.60	21.64	20.68
		779.5	22.57	21.63	20.65
	100% RB	784.5	22.60	21.69	20.67
		782.0	22.57	21.63	20.61
		779.5	22.52	21.55	20.55
10MHz	1 RB high	782.0	23.51	22.85	21.78
	1 RB low	782.0	23.49	22.84	21.71
	50% RB mid	782.0	22.65	21.71	20.71
	100% RB	782.0	22.61	21.65	20.67

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1914.3	23.34	22.55	21.55
		1882.5	23.49	22.77	21.63
		1850.7	23.58	22.96	21.80
	1 RB low	1914.3	23.33	22.68	21.55
		1882.5	23.48	22.78	21.67
		1850.7	23.57	22.90	21.83
	50% RB mid	1914.3	23.51	22.50	21.52
		1882.5	23.60	22.64	21.72
		1850.7	23.73	22.67	21.84
	100% RB	1914.3	22.43	21.53	20.45
		1882.5	22.56	21.67	20.57
		1850.7	22.66	21.78	20.72
3MHz	1 RB high	1913.5	23.58	22.88	21.73
		1882.5	23.72	23.03	21.87
		1851.5	23.78	23.06	21.96
	1 RB low	1913.5	23.60	22.83	21.75
		1882.5	23.72	22.94	21.87
		1851.5	23.78	23.05	21.96
	50% RB mid	1913.5	22.63	21.70	20.67
		1882.5	22.73	21.80	20.80
		1851.5	22.84	21.92	20.89
	100% RB	1913.5	22.59	21.57	20.62
		1882.5	22.70	21.70	20.73
		1851.5	22.78	21.82	20.84
5MHz	1 RB high	1912.5	23.25	22.49	21.35
		1882.5	23.36	22.65	21.54
		1852.5	23.44	22.69	21.67
	1 RB low	1912.5	23.27	22.61	21.52
		1882.5	23.35	22.77	21.60
		1852.5	23.46	22.80	21.70
	50% RB mid	1912.5	22.42	21.43	20.51
		1882.5	22.51	21.54	20.61
		1852.5	22.63	21.64	20.74
	100% RB	1912.5	22.33	21.38	20.43
		1882.5	22.49	21.51	20.56
		1852.5	22.59	21.63	20.67
10MHz	1 RB high	1910.0	23.28	22.50	21.51
		1882.5	23.39	22.75	21.64
		1855.0	23.46	22.75	21.63
	1 RB low	1910.0	23.31	22.68	21.64

		1882.5	23.44	22.75	21.59
		1855.0	23.53	22.81	21.81
	50% RB mid	1910.0	22.44	21.47	20.52
		1882.5	22.57	21.57	20.62
		1855.0	22.64	21.67	20.73
	100% RB	1910.0	22.40	21.44	20.47
		1882.5	22.55	21.56	20.64
		1855.0	22.60	21.64	20.68
15MHz	1 RB high	1907.5	23.13	22.51	21.38
		1882.5	23.26	22.60	21.47
		1857.5	23.28	22.54	21.45
	1 RB low	1907.5	23.26	22.63	21.49
		1882.5	23.30	22.65	21.53
		1857.5	23.41	22.78	21.69
	50% RB mid	1907.5	22.42	21.40	20.48
		1882.5	22.48	21.50	20.56
		1857.5	22.58	21.54	20.66
	100% RB	1907.5	22.35	21.36	20.39
		1882.5	22.45	21.48	20.54
		1857.5	22.47	21.50	20.54
20MHz	1 RB high	1905.0	23.03	22.37	21.26
		1882.5	23.14	22.52	21.37
		1860.0	23.18	22.46	21.38
	1 RB low	1905.0	23.21	22.44	21.42
		1882.5	23.20	22.60	21.42
		1860.0	23.29	22.65	21.48
	50% RB mid	1905.0	22.41	21.43	20.46
		1882.5	22.49	21.49	20.56
		1860.0	22.55	21.54	20.58
	100% RB	1905.0	22.32	21.31	20.40
		1882.5	22.49	21.46	20.52
		1860.0	22.42	21.40	20.45

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.57	22.59	21.97
		819.0	23.57	22.59	21.52
		814.7	23.59	22.61	22.04
	1 RB low	823.3	23.55	22.56	21.96
		819.0	23.56	22.55	21.52
		814.7	23.63	22.64	22.07
	50% RB mid	823.3	23.61	22.83	21.76
		819.0	23.67	22.89	21.71
		814.7	23.70	22.91	21.83
	100% RB	823.3	22.63	21.58	20.94
		819.0	22.60	21.85	20.73
		814.7	22.67	21.63	20.98
3MHz	1 RB high	822.5	23.67	22.65	21.56
		819.0	23.67	22.65	21.53
		815.5	23.67	22.70	21.60
	1 RB low	822.5	23.68	22.68	21.59
		819.0	23.68	22.70	21.63
		815.5	23.78	22.79	21.72
	50% RB mid	822.5	22.66	21.75	20.64
		819.0	22.64	21.76	20.62
		815.5	22.63	21.79	20.64
	100% RB	822.5	22.66	21.67	20.73
		819.0	22.66	21.66	20.70
		815.5	22.65	21.67	20.73
5MHz	1 RB high	821.5	23.54	22.61	21.74
		819.0	23.50	22.59	21.72
		816.5	23.51	22.61	21.74
	1 RB low	821.5	23.48	22.57	21.71
		819.0	23.48	22.57	21.71
		816.5	23.57	22.67	21.78
	50% RB mid	821.5	22.60	21.70	20.67
		819.0	22.59	21.70	20.66
		816.5	22.60	21.72	20.69
	100% RB	821.5	22.57	21.57	20.61
		819.0	22.58	21.57	20.63
		816.5	22.58	21.59	20.62
10MHz	1 RB high	819.0	23.59	22.57	21.50
	1 RB low	819.0	23.62	22.62	21.53
	50% RB mid	819.0	22.61	21.80	20.74
	100% RB	819.0	22.62	21.71	20.69

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.50	22.46	21.85
		836.5	23.53	22.57	21.51
		824.7	23.58	22.60	21.99
	1 RB low	848.3	23.47	22.49	21.88
		836.5	23.52	22.56	21.48
		824.7	23.57	22.58	22.00
	50% RB mid	848.3	23.62	22.75	21.52
		836.5	23.68	22.83	21.63
		824.7	23.71	22.85	21.82
	100% RB	848.3	22.56	21.74	20.67
		836.5	22.58	21.81	20.72
		824.7	22.67	21.61	20.99
3MHz	1 RB high	847.5	23.54	22.99	21.79
		836.5	23.63	22.62	21.54
		825.5	23.66	23.19	21.94
	1 RB low	847.5	23.61	23.23	21.91
		836.5	23.67	22.68	21.59
		825.5	23.69	23.27	21.97
	50% RB mid	847.5	22.56	21.75	20.56
		836.5	22.63	21.75	20.60
		825.5	22.63	21.80	20.63
	100% RB	847.5	22.56	21.57	20.66
		836.5	22.64	21.66	20.71
		825.5	22.64	21.65	20.71
5MHz	1 RB high	846.5	23.41	22.31	21.41
		836.5	23.51	22.55	21.70
		826.5	23.52	22.44	21.55
	1 RB low	846.5	23.43	22.35	21.46
		836.5	23.46	22.54	21.69
		826.5	23.52	22.41	21.56
	50% RB mid	846.5	22.53	21.70	20.62
		836.5	22.59	21.73	20.69
		826.5	22.57	21.70	20.66
	100% RB	846.5	22.53	21.55	20.58
		836.5	22.57	21.59	20.64
		826.5	22.57	21.60	20.65
10MHz	1 RB high	844.0	23.54	22.50	21.40
		836.5	23.56	22.54	21.47
		829.0	23.54	23.12	21.83
	1 RB low	844.0	23.51	22.52	21.47

		836.5	23.57	22.57	21.50
		829.0	23.57	23.10	21.82
		844.0	22.64	21.80	20.78
	50% RB mid	836.5	22.61	21.86	20.72
		829.0	22.65	21.79	20.77
		844.0	22.65	21.75	20.70
	100% RB	836.5	22.66	21.73	20.70
		829.0	22.64	21.74	20.73
		841.5	23.39	22.74	21.77
15MHz	1 RB high	836.5	23.41	22.79	21.81
		831.5	23.39	22.82	21.81
		841.5	23.40	22.78	21.83
	1 RB low	836.5	23.41	22.79	21.85
		831.5	23.43	22.79	21.79
		841.5	22.57	21.59	20.59
	50% RB mid	836.5	22.58	21.63	20.58
		831.5	22.61	21.61	20.63
		841.5	22.61	21.62	20.65
	100% RB	836.5	22.57	21.59	20.64
		831.5	22.61	21.63	20.67

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	26.94	25.94	24.95
		2593.0	26.48	25.65	24.49
		2498.5	26.08	25.31	24.09
	1 RB low	2687.5	26.95	25.94	24.89
		2593.0	26.51	25.67	24.51
		2498.5	26.06	25.28	24.05
	50% RB mid	2687.5	25.97	24.92	23.95
		2593.0	25.69	24.68	23.77
		2498.5	25.19	24.22	23.30
	100% RB	2687.5	25.92	24.95	23.95
		2593.0	25.59	24.66	23.74
		2498.5	25.14	24.21	23.25
10MHz	1 RB high	2685.0	26.94	25.98	24.91
		2593.0	26.52	25.70	24.52
		2501.0	26.11	25.33	24.11
	1 RB low	2685.0	26.85	25.91	24.93
		2593.0	26.59	25.76	24.59
		2501.0	26.09	25.33	24.08
	50% RB mid	2685.0	25.94	24.95	23.97
		2593.0	25.69	24.73	23.83
		2501.0	25.23	24.28	23.39
	100% RB	2685.0	25.95	24.92	23.97
		2593.0	25.71	24.73	23.72
		2501.0	25.19	24.28	23.29
15MHz	1 RB high	2682.5	26.94	25.96	24.82
		2593.0	26.31	25.47	24.29
		2503.5	25.94	25.13	23.94
	1 RB low	2682.5	26.84	25.86	24.90
		2593.0	26.40	25.56	24.39
		2503.5	25.88	25.11	23.89
	50% RB mid	2682.5	25.94	24.95	23.94
		2593.0	25.60	24.54	23.57
		2503.5	25.11	24.10	23.14
	100% RB	2682.5	25.94	24.89	23.95
		2593.0	25.52	24.52	23.57
		2503.5	25.07	24.10	23.14
20MHz	1 RB high	2680.0	26.76	25.93	24.71
		2593.0	26.20	25.38	24.16
		2506.0	25.91	25.09	23.88
	1 RB low	2680.0	26.87	25.84	24.81

		2593.0	26.36	25.53	24.33
		2506.0	25.79	25.04	23.77
	50% RB mid	2680.0	25.96	24.97	23.96
		2593.0	25.59	24.63	23.60
		2506.0	25.12	24.18	23.16
	100% RB	2680.0	25.95	24.94	23.95
		2593.0	25.62	24.61	23.60
		2506.0	25.13	24.14	23.14

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.74	23.04	21.99
		1745.0	23.62	22.84	21.91
		1710.7	23.57	22.90	21.80
	1 RB low	1779.3	23.74	23.03	21.92
		1745.0	23.61	22.90	21.83
		1710.7	23.57	22.98	21.88
	50% RB mid	1779.3	23.89	22.91	22.01
		1745.0	23.76	22.81	21.91
		1710.7	23.71	22.80	21.83
	100% RB	1779.3	22.86	21.99	20.87
		1745.0	22.75	21.85	20.81
		1710.7	22.67	21.84	20.75
3MHz	1 RB high	1778.5	23.85	23.11	22.03
		1745.0	23.80	23.18	21.97
		1711.5	23.67	22.97	21.93
	1 RB low	1778.5	23.88	23.17	22.08
		1745.0	23.78	23.17	22.02
		1711.5	23.72	23.09	21.88
	50% RB mid	1778.5	22.93	22.04	21.05
		1745.0	22.81	21.94	20.96
		1711.5	22.78	21.86	20.95
	100% RB	1778.5	22.91	21.94	20.97
		1745.0	22.76	21.81	20.86
		1711.5	22.75	21.79	20.85
5MHz	1 RB high	1777.5	23.67	22.91	21.83
		1745.0	23.60	22.89	21.81
		1712.5	23.46	22.79	21.68
	1 RB low	1777.5	23.68	22.86	21.95
		1745.0	23.58	22.98	21.79
		1712.5	23.51	22.91	21.74
	50% RB mid	1777.5	22.89	21.87	20.99
		1745.0	22.79	21.79	20.88
		1712.5	22.69	21.72	20.80
	100% RB	1777.5	22.86	21.85	20.92
		1745.0	22.71	21.73	20.81
		1712.5	22.65	21.67	20.72
10MHz	1 RB high	1775.0	23.72	23.01	21.89
		1745.0	23.68	22.98	21.95
		1715.0	23.55	22.85	21.77
	1 RB low	1775.0	23.79	23.09	22.05

		1745.0	23.65	22.95	21.86
		1715.0	23.61	22.94	21.87
	50% RB mid	1775.0	22.91	21.93	20.98
		1745.0	22.81	21.83	20.90
		1715.0	22.69	21.74	20.79
	100% RB	1775.0	22.91	21.92	21.00
		1745.0	22.78	21.82	20.84
		1715.0	22.66	21.68	20.77
15MHz	1 RB high	1772.5	23.63	22.96	21.83
		1745.0	23.57	22.92	21.83
		1717.5	23.39	22.69	21.63
	1 RB low	1772.5	23.63	22.99	21.85
		1745.0	23.53	22.88	21.76
		1717.5	23.51	22.90	21.77
	50% RB mid	1772.5	22.88	21.88	20.97
		1745.0	22.77	21.76	20.85
		1717.5	22.66	21.62	20.73
	100% RB	1772.5	22.83	21.80	20.86
		1745.0	22.72	21.71	20.80
		1717.5	22.58	21.58	20.65
20MHz	1 RB high	1770.0	23.55	22.82	21.74
		1745.0	23.49	22.79	21.68
		1720.0	23.36	22.72	21.58
	1 RB low	1770.0	23.55	22.81	21.71
		1745.0	23.43	22.83	21.70
		1720.0	23.41	22.80	21.67
	50% RB mid	1770.0	22.82	21.91	20.96
		1745.0	22.85	21.80	20.83
		1720.0	22.64	21.65	20.70
	100% RB	1770.0	22.77	21.76	20.84
		1745.0	22.71	21.71	20.75
		1720.0	22.54	21.54	20.59

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	695.5	22.82	22.49	21.68
		680.5	23.25	22.46	21.20
		665.5	23.25	22.58	21.57
	1 RB low	695.5	23.28	22.63	21.73
		680.5	23.35	22.56	21.34
		665.5	23.34	22.63	21.54
	50% RB mid	695.5	22.44	21.37	20.68
		680.5	22.47	21.38	20.65
		665.5	22.42	21.31	20.61
	100% RB	695.5	22.42	21.32	20.66
		680.5	22.21	21.40	20.61
		665.5	22.15	21.22	20.56
10MHz	1 RB high	693.0	22.85	21.99	21.76
		680.5	23.18	22.32	21.58
		668.0	22.92	22.47	21.61
	1 RB low	693.0	22.94	22.45	21.73
		680.5	23.05	22.53	21.04
		668.0	23.00	22.18	21.70
	50% RB mid	693.0	21.88	20.82	20.70
		680.5	22.27	21.27	20.63
		668.0	21.81	21.33	20.66
	100% RB	693.0	21.92	21.06	20.64
		680.5	22.14	21.35	20.74
		668.0	21.52	21.16	20.69
15MHz	1 RB high	690.5	22.98	22.34	21.61
		680.5	23.03	22.41	21.57
		670.5	22.96	22.40	21.54
	1 RB low	690.5	23.01	22.31	21.59
		680.5	23.00	22.55	21.62
		670.5	22.89	22.56	21.52
	50% RB mid	690.5	22.03	21.08	20.59
		680.5	22.16	21.11	20.65
		670.5	21.77	20.97	20.65
	100% RB	690.5	22.09	20.80	20.51
		680.5	21.93	20.90	20.61
		670.5	21.66	20.60	20.54
20MHz	1 RB high	688.0	22.97	22.11	21.47
		680.5	23.04	22.09	21.51
		673.0	22.98	22.06	21.46
	1 RB low	688.0	23.09	22.18	21.57

		680.5	23.18	22.35	21.52
		673.0	22.91	22.24	21.50
	50% RB mid	688.0	22.00	20.89	20.59
		680.5	22.48	21.18	20.65
		673.0	22.07	20.93	20.60
	100% RB	688.0	22.13	21.08	20.48
		680.5	22.48	21.17	20.67
		673.0	21.91	20.73	20.42

LTE CA Band 5B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	23.66
				15	0	25	0	23.59
			16QAM	1	14	1	0	23.66
				15	0	25	0	23.57
			64QAM	1	14	1	0	23.42
				15	0	25	0	23.63
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.59
				25	0	15	0	23.52
			16QAM	1	24	1	0	23.60
				25	0	15	0	23.48
			64QAM	1	24	1	0	23.45
				25	0	15	0	23.49
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	23.66
				25	0	50	0	21.60
			16QAM	1	24	1	0	22.53
				25	0	50	0	20.57
			64QAM	1	24	1	0	20.54
				25	0	50	0	20.60
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	23.58
				50	0	25	0	23.54
			16QAM	1	49	1	0	23.61
				50	0	25	0	23.52
			64QAM	1	49	1	0	23.38
				50	0	25	0	23.56
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	23.74
				50	0	50	0	21.58
			16QAM	1	49	1	0	22.73
				50	0	50	0	20.57
			64QAM	1	49	1	0	20.45
				50	0	50	0	20.55

LTE CA Band 66B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.53
				25	0	25	0	23.45
			16QAM	1	24	1	0	23.52
				25	0	25	0	23.45
			64QAM	1	24	1	0	23.37
				25	0	25	0	23.43
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.56
				25	0	50	0	21.52
			16QAM	1	24	1	0	22.47
				25	0	50	0	20.58
			64QAM	1	24	1	0	20.69
				25	0	50	0	20.55
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.53
				25	0	75	0	23.43
			16QAM	1	24	1	0	23.38
				25	0	75	0	23.43
			64QAM	1	24	1	0	23.60
				25	0	75	0	23.42
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.54
				50	0	25	0	23.50
			16QAM	1	49	1	0	23.54
				50	0	25	0	23.50
			64QAM	1	49	1	0	23.27
				50	0	25	0	23.49
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.65
				50	0	50	0	21.52
			16QAM	1	49	1	0	22.43
				50	0	50	0	20.55
			64QAM	1	49	1	0	20.42
				50	0	50	0	20.56
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.39
				75	0	25	0	23.42
			16QAM	1	74	1	0	23.17
				75	0	25	0	23.35
			64QAM	1	74	1	0	23.15
				75	0	25	0	23.38

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	24.47
				25	0	100	0	22.47
			16QAM	1	24	1	0	23.57
				25	0	100	0	21.46
			64QAM	1	24	1	0	21.33
				25	0	100	0	21.45
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.53
				50	0	75	0	24.50
			16QAM	1	49	1	0	24.51
				50	0	75	0	24.43
			64QAM	1	49	1	0	24.25
				50	0	75	0	24.44
10MHz/ 20MHz	1745.6	1760.0	QPSK	1	49	1	0	24.59
				50	0	100	0	22.51
			16QAM	1	49	1	0	23.34
				50	0	100	0	21.48
			64QAM	1	49	1	0	21.24
				50	0	100	0	21.50
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.42
				75	0	50	0	24.48
			16QAM	1	74	1	0	24.19
				75	0	50	0	24.43
			64QAM	1	74	1	0	24.37
				75	0	50	0	24.43
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	24.53
				75	0	75	0	22.50
			16QAM	1	74	1	0	23.55
				75	0	75	0	21.45
			64QAM	1	74	1	0	21.59
				75	0	75	0	21.43
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	24.55
				75	0	100	0	22.46
			16QAM	1	74	1	0	23.62
				75	0	100	0	21.43
			64QAM	1	74	1	0	21.21
				75	0	100	0	21.41
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	24.39
				100	0	25	0	22.43
			16QAM	1	99	1	0	23.41
				100	0	25	0	21.42

			64QAM	1	99	1	0	21.51
				100	0	25	0	21.40
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	24.40
				100	0	50	0	22.46
			16QAM	1	99	1	0	23.60
				100	0	50	0	21.42
			64QAM	1	99	1	0	21.51
				100	0	50	0	21.47
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	24.50
				100	0	75	0	22.41
			16QAM	1	99	1	0	23.53
				100	0	75	0	21.41
			64QAM	1	99	1	0	21.63
				100	0	75	0	21.41
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	24.54
				100	0	100	0	22.46
			16QAM	1	99	1	0	23.57
				100	0	100	0	21.43
			64QAM	1	99	1	0	21.67
				100	0	100	0	21.43

A.1.3 Radiated

A.1.3.1 Description

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

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

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

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

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

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

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

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

FDD Band 41: 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".

A.1.3.2 Method of Measurement

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

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

where;

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

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

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

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

LTE band 12-ERP
Limits: ≤34.77dBm (3W)

Max ERP: 15.71dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -5.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.17	22.52	21.4	/	15.52	14.87	13.75	/
		707.5	23.19	22.41	21.42	/	15.54	14.76	13.77	/
		699.7	23.22	22.47	21.38	/	15.57	14.82	13.73	/
	1 RB low	715.3	23.18	22.58	21.48	/	15.53	14.93	13.83	/
		707.5	23.2	22.56	21.44	/	15.55	14.91	13.79	/
		699.7	23.2	22.59	21.5	/	15.55	14.94	13.85	/
	50% RB mid	715.3	23.33	22.36	21.45	/	15.68	14.71	13.80	/
		707.5	23.35	22.27	21.44	/	15.70	14.62	13.79	/
		699.7	23.35	22.4	21.44	/	15.70	14.75	13.79	/
	100% RB	715.3	22.31	21.38	20.29	/	14.66	13.73	12.64	/
		707.5	22.32	21.4	20.34	/	14.67	13.75	12.69	/
		699.7	22.29	21.36	20.35	/	14.64	13.71	12.70	/
3MHz	1 RB high	714.5	23.27	22.61	21.44	/	15.62	14.96	13.79	/
		707.5	23.31	22.65	21.5	/	15.66	15.00	13.85	/
		700.5	23.33	22.58	21.58	/	15.68	14.93	13.93	/
	1 RB low	714.5	23.25	22.66	21.53	/	15.60	15.01	13.88	/
		707.5	23.34	22.56	21.55	/	15.69	14.91	13.90	/
		700.5	23.36	22.75	21.57	/	15.71	15.10	13.92	/
	50% RB mid	714.5	22.42	21.43	20.42	/	14.77	13.78	12.77	/
		707.5	22.38	21.49	20.51	/	14.73	13.84	12.86	/
		700.5	22.4	21.43	20.51	/	14.75	13.78	12.86	/
	100% RB	714.5	22.32	21.33	20.33	/	14.67	13.68	12.68	/
		707.5	22.36	21.38	20.4	/	14.71	13.73	12.75	/
		700.5	22.36	21.38	20.42	/	14.71	13.73	12.77	/
5MHz	1 RB high	713.5	23.1	22.38	21.31	/	15.45	14.73	13.66	/
		707.5	23.11	22.45	21.34	/	15.46	14.80	13.69	/
		701.5	23.17	22.51	21.28	/	15.52	14.86	13.63	/
	1 RB low	713.5	23.1	22.48	21.35	/	15.45	14.83	13.70	/
		707.5	23.18	22.36	21.38	/	15.53	14.71	13.73	/
		701.5	23.2	22.51	21.41	/	15.55	14.86	13.76	/
	50% RB mid	713.5	22.32	21.34	20.34	/	14.67	13.69	12.69	/
		707.5	22.31	21.33	20.39	/	14.66	13.68	12.74	/
		701.5	22.36	21.38	20.44	/	14.71	13.73	12.79	/
	100% RB	713.5	22.26	21.28	20.27	/	14.61	13.63	12.62	/
		707.5	22.27	21.29	20.33	/	14.62	13.64	12.68	/
		701.5	22.33	21.34	20.39	/	14.68	13.69	12.74	/

10MHz	1 RB high	711	23.15	22.38	21.33	/	15.50	14.73	13.68	/
		707.5	23.16	22.54	21.37	/	15.51	14.89	13.72	/
		704	23.22	22.36	21.3	/	15.57	14.71	13.65	/
	1 RB low	711	23.22	22.49	21.52	/	15.57	14.84	13.87	/
		707.5	23.27	22.61	21.49	/	15.62	14.96	13.84	/
		704	23.28	22.51	21.41	/	15.63	14.86	13.76	/
	50% RB mid	711	22.37	21.39	20.33	/	14.72	13.74	12.68	/
		707.5	22.34	21.36	20.41	/	14.69	13.71	12.76	/
		704	22.37	21.39	20.44	/	14.72	13.74	12.79	/
	100% RB	711	22.25	21.29	20.27	/	14.60	13.64	12.62	/
		707.5	22.32	21.36	20.4	/	14.67	13.71	12.75	/
		704	22.43	21.43	20.46	/	14.78	13.78	12.81	/

LTE band 13-ERP
Limits: ≤34.77dBm (3W)

Max ERP: 14.86dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) GT = -6.5dBi		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5MHz	1 RB high	784.5	23.46	22.84	21.77	14.81	14.19	13.12
		782	23.44	22.66	21.72	14.79	14.01	13.07
		779.5	23.4	22.7	21.65	14.75	14.05	13.00
	1 RB low	784.5	23.48	22.68	21.73	14.83	14.03	13.08
		782	23.46	22.78	21.68	14.81	14.13	13.03
		779.5	23.36	22.63	21.64	14.71	13.98	12.99
	50% RB mid	784.5	22.67	21.75	20.74	14.02	13.10	12.09
		782	22.6	21.64	20.68	13.95	12.99	12.03
		779.5	22.57	21.63	20.65	13.92	12.98	12.00
	100% RB	784.5	22.6	21.69	20.67	13.95	13.04	12.02
		782	22.57	21.63	20.61	13.92	12.98	11.96
		779.5	22.52	21.55	20.55	13.87	12.90	11.90
10MHz	1 RB high	782	23.51	22.85	21.78	14.86	14.20	13.13
	1 RB low	782	23.49	22.84	21.71	14.84	14.19	13.06
	50% RB mid	782	22.65	21.71	20.71	14.00	13.06	12.06
	100% RB	782	22.61	21.65	20.67	13.96	13.00	12.02

LTE band 25- EIRP
Limits: ≤33dBm (2W)

Max ERP: 19.53dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -4dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.34	22.55	21.55	/	19.34	18.55	17.55	/
		1882.5	23.49	22.77	21.63	/	19.49	18.77	17.63	/
		1850.7	23.58	22.96	21.8	/	19.58	18.96	17.80	/
	1 RB low	1914.3	23.33	22.68	21.55	/	19.33	18.68	17.55	/
		1882.5	23.48	22.78	21.67	/	19.48	18.78	17.67	/
		1850.7	23.57	22.9	21.83	/	19.57	18.90	17.83	/
	50% RB mid	1914.3	23.51	22.5	21.52	/	19.51	18.50	17.52	/
		1882.5	23.6	22.64	21.72	/	19.60	18.64	17.72	/
		1850.7	23.73	22.67	21.84	/	19.73	18.67	17.84	/
	100% RB	1914.3	22.43	21.53	20.45	/	18.43	17.53	16.45	/
		1882.5	22.56	21.67	20.57	/	18.56	17.67	16.57	/
		1850.7	22.66	21.78	20.72	/	18.66	17.78	16.72	/
3MHz	1 RB high	1913.5	23.58	22.88	21.73	/	19.58	18.88	17.73	/
		1882.5	23.72	23.03	21.87	/	19.72	19.03	17.87	/
		1851.5	23.78	23.06	21.96	/	19.78	19.06	17.96	/
	1 RB low	1913.5	23.6	22.83	21.75	/	19.60	18.83	17.75	/
		1882.5	23.72	22.94	21.87	/	19.72	18.94	17.87	/
		1851.5	23.78	23.05	21.96	/	19.78	19.05	17.96	/
	50% RB mid	1913.5	22.63	21.7	20.67	/	18.63	17.70	16.67	/
		1882.5	22.73	21.8	20.8	/	18.73	17.80	16.80	/
		1851.5	22.84	21.92	20.89	/	18.84	17.92	16.89	/
	100% RB	1913.5	22.59	21.57	20.62	/	18.59	17.57	16.62	/
		1882.5	22.7	21.7	20.73	/	18.70	17.70	16.73	/
		1851.5	22.78	21.82	20.84	/	18.78	17.82	16.84	/
5MHz	1 RB high	1912.5	23.25	22.49	21.35	/	19.25	18.49	17.35	/
		1882.5	23.36	22.65	21.54	/	19.36	18.65	17.54	/
		1852.5	23.44	22.69	21.67	/	19.44	18.69	17.67	/
	1 RB low	1912.5	23.27	22.61	21.52	/	19.27	18.61	17.52	/
		1882.5	23.35	22.77	21.6	/	19.35	18.77	17.60	/
		1852.5	23.46	22.8	21.7	/	19.46	18.80	17.70	/
	50% RB mid	1912.5	22.42	21.43	20.51	/	18.42	17.43	16.51	/
		1882.5	22.51	21.54	20.61	/	18.51	17.54	16.61	/
		1852.5	22.63	21.64	20.74	/	18.63	17.64	16.74	/
	100% RB	1912.5	22.33	21.38	20.43	/	18.33	17.38	16.43	/
		1882.5	22.49	21.51	20.56	/	18.49	17.51	16.56	/
		1852.5	22.59	21.63	20.67	/	18.59	17.63	16.67	/

10MH z	1 RB high	1910	23.28	22.5	21.51	/	19.28	18.50	17.51	/
		1882.5	23.39	22.75	21.64	/	19.39	18.75	17.64	/
		1855	23.46	22.75	21.63	/	19.46	18.75	17.63	/
	1 RB low	1910	23.31	22.68	21.64	/	19.31	18.68	17.64	/
		1882.5	23.44	22.75	21.59	/	19.44	18.75	17.59	/
		1855	23.53	22.81	21.81	/	19.53	18.81	17.81	/
	50% RB mid	1910	22.44	21.47	20.52	/	18.44	17.47	16.52	/
		1882.5	22.57	21.57	20.62	/	18.57	17.57	16.62	/
		1855	22.64	21.67	20.73	/	18.64	17.67	16.73	/
	100 % RB	1910	22.4	21.44	20.47	/	18.40	17.44	16.47	/
		1882.5	22.55	21.56	20.64	/	18.55	17.56	16.64	/
		1855	22.6	21.64	20.68	/	18.60	17.64	16.68	/
15MH z	1 RB high	1907.5	23.13	22.51	21.38	/	19.13	18.51	17.38	/
		1882.5	23.26	22.6	21.47	/	19.26	18.60	17.47	/
		1857.5	23.28	22.54	21.45	/	19.28	18.54	17.45	/
	1 RB low	1907.5	23.26	22.63	21.49	/	19.26	18.63	17.49	/
		1882.5	23.3	22.65	21.53	/	19.30	18.65	17.53	/
		1857.5	23.41	22.78	21.69	/	19.41	18.78	17.69	/
	50% RB mid	1907.5	22.42	21.4	20.48	/	18.42	17.40	16.48	/
		1882.5	22.48	21.5	20.56	/	18.48	17.50	16.56	/
		1857.5	22.58	21.54	20.66	/	18.58	17.54	16.66	/
	100 % RB	1907.5	22.35	21.36	20.39	/	18.35	17.36	16.39	/
		1882.5	22.45	21.48	20.54	/	18.45	17.48	16.54	/
		1857.5	22.47	21.5	20.54	/	18.47	17.50	16.54	/
20MH z	1 RB high	1905	23.03	22.37	21.26	/	19.03	18.37	17.26	/
		1882.5	23.14	22.52	21.37	/	19.14	18.52	17.37	/
		1860	23.18	22.46	21.38	/	19.18	18.46	17.38	/
	1 RB low	1905	23.21	22.44	21.42	/	19.21	18.44	17.42	/
		1882.5	23.2	22.6	21.42	/	19.20	18.60	17.42	/
		1860	23.29	22.65	21.48	/	19.29	18.65	17.48	/
	50% RB mid	1905	22.41	21.43	20.46	/	18.41	17.43	16.46	/
		1882.5	22.49	21.49	20.56	/	18.49	17.49	16.56	/
		1860	22.55	21.54	20.58	/	18.55	17.54	16.58	/
	100 % RB	1905	22.32	21.31	20.4	/	18.32	17.31	16.40	/
		1882.5	22.49	21.46	20.52	/	18.49	17.46	16.52	/
		1860	22.42	21.4	20.45	/	18.42	17.40	16.45	/

LTE Band 26(814MHz~824MHz)-ERP
Limits: ≤50dBm (100W)

Max ERP: 17.13dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -4.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	823.3	23.57	22.59	21.97	/	16.92	15.94	15.32	/
		819	23.57	22.59	21.52	/	16.92	15.94	14.87	/
		814.7	23.59	22.61	22.04	/	16.94	15.96	15.39	/
	1 RB low	823.3	23.55	22.56	21.96	/	16.90	15.91	15.31	/
		819	23.56	22.55	21.52	/	16.91	15.90	14.87	/
		814.7	23.63	22.64	22.07	/	16.98	15.99	15.42	/
	50% RB mid	823.3	23.61	22.83	21.76	/	16.96	16.18	15.11	/
		819	23.67	22.89	21.71	/	17.02	16.24	15.06	/
		814.7	23.7	22.91	21.83	/	17.05	16.26	15.18	/
	100% RB	823.3	22.63	21.58	20.94	/	15.98	14.93	14.29	/
		819	22.6	21.85	20.73	/	15.95	15.20	14.08	/
		814.7	22.67	21.63	20.98	/	16.02	14.98	14.33	/
3MHz	1 RB high	822.5	23.67	22.65	21.56	/	17.02	16.00	14.91	/
		819	23.67	22.65	21.53	/	17.02	16.00	14.88	/
		815.5	23.67	22.7	21.6	/	17.02	16.05	14.95	/
	1 RB low	822.5	23.68	22.68	21.59	/	17.03	16.03	14.94	/
		819	23.68	22.7	21.63	/	17.03	16.05	14.98	/
		815.5	23.78	22.79	21.72	/	17.13	16.14	15.07	/
	50% RB mid	822.5	22.66	21.75	20.64	/	16.01	15.10	13.99	/
		819	22.64	21.76	20.62	/	15.99	15.11	13.97	/
		815.5	22.63	21.79	20.64	/	15.98	15.14	13.99	/
	100% RB	822.5	22.66	21.67	20.73	/	16.01	15.02	14.08	/
		819	22.66	21.66	20.7	/	16.01	15.01	14.05	/
		815.5	22.65	21.67	20.73	/	16.00	15.02	14.08	/
5MHz	1 RB high	821.5	23.54	22.61	21.74	/	16.89	15.96	15.09	/
		819	23.5	22.59	21.72	/	16.85	15.94	15.07	/
		816.5	23.51	22.61	21.74	/	16.86	15.96	15.09	/
	1 RB low	821.5	23.48	22.57	21.71	/	16.83	15.92	15.06	/
		819	23.48	22.57	21.71	/	16.83	15.92	15.06	/
		816.5	23.57	22.67	21.78	/	16.92	16.02	15.13	/
	50% RB mid	821.5	22.6	21.7	20.67	/	15.95	15.05	14.02	/
		819	22.59	21.7	20.66	/	15.94	15.05	14.01	/
		816.5	22.6	21.72	20.69	/	15.95	15.07	14.04	/
	100% RB	821.5	22.57	21.57	20.61	/	15.92	14.92	13.96	/
		819	22.58	21.57	20.63	/	15.93	14.92	13.98	/
		816.5	22.58	21.59	20.62	/	15.93	14.94	13.97	/

10MH z	1 RB high	819	23.59	22.57	21.5	/	16.94	15.92	14.85	/
	1 RB low	819	23.62	22.62	21.53	/	16.97	15.97	14.88	/
	50% RB mid	819	22.61	21.8	20.74	/	15.96	15.15	14.09	/
	100% RB	819	22.62	21.71	20.69	/	15.97	15.06	14.04	/

LTE band 26(824MHz~849MHz)- ERP
Limits: ≤38.45dBm (7W)

Max ERP: 17.06dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -4.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4M Hz	1 RB high	848.3	23.5	22.46	21.85	/	16.85	15.81	15.20	/
		836.5	23.53	22.57	21.51	/	16.88	15.92	14.86	/
		824.7	23.58	22.6	21.99	/	16.93	15.95	15.34	/
	1 RB low	848.3	23.47	22.49	21.88	/	16.82	15.84	15.23	/
		836.5	23.52	22.56	21.48	/	16.87	15.91	14.83	/
		824.7	23.57	22.58	22	/	16.92	15.93	15.35	/
	50% RB mid	848.3	23.62	22.75	21.52	/	16.97	16.10	14.87	/
		836.5	23.68	22.83	21.63	/	17.03	16.18	14.98	/
		824.7	23.71	22.85	21.82	/	17.06	16.20	15.17	/
	100% RB	848.3	22.56	21.74	20.67	/	15.91	15.09	14.02	/
		836.5	22.58	21.81	20.72	/	15.93	15.16	14.07	/
		824.7	22.67	21.61	20.99	/	16.02	14.96	14.34	/
3MHz	1 RB high	847.5	23.54	22.99	21.79	/	16.89	16.34	15.14	/
		836.5	23.63	22.62	21.54	/	16.98	15.97	14.89	/
		825.5	23.66	23.19	21.94	/	17.01	16.54	15.29	/
	1 RB low	847.5	23.61	23.23	21.91	/	16.96	16.58	15.26	/
		836.5	23.67	22.68	21.59	/	17.02	16.03	14.94	/
		825.5	23.69	23.27	21.97	/	17.04	16.62	15.32	/
	50% RB mid	847.5	22.56	21.75	20.56	/	15.91	15.10	13.91	/
		836.5	22.63	21.75	20.6	/	15.98	15.10	13.95	/
		825.5	22.63	21.8	20.63	/	15.98	15.15	13.98	/
	100% RB	847.5	22.56	21.57	20.66	/	15.91	14.92	14.01	/
		836.5	22.64	21.66	20.71	/	15.99	15.01	14.06	/
		825.5	22.64	21.65	20.71	/	15.99	15.00	14.06	/
5MHz	1 RB high	846.5	23.41	22.31	21.41	/	16.76	15.66	14.76	/
		836.5	23.51	22.55	21.7	/	16.86	15.90	15.05	/
		826.5	23.52	22.44	21.55	/	16.87	15.79	14.90	/
	1 RB low	846.5	23.43	22.35	21.46	/	16.78	15.70	14.81	/
		836.5	23.46	22.54	21.69	/	16.81	15.89	15.04	/
		826.5	23.52	22.41	21.56	/	16.87	15.76	14.91	/
	50% RB mid	846.5	22.53	21.7	20.62	/	15.88	15.05	13.97	/
		836.5	22.59	21.73	20.69	/	15.94	15.08	14.04	/
		826.5	22.57	21.7	20.66	/	15.92	15.05	14.01	/
	100% RB	846.5	22.53	21.55	20.58	/	15.88	14.90	13.93	/
		836.5	22.57	21.59	20.64	/	15.92	14.94	13.99	/
		826.5	22.57	21.6	20.65	/	15.92	14.95	14.00	/

10MH z	1 RB high	844.0	23.54	22.5	21.4	/	16.89	15.85	14.75	/
		836.5	23.56	22.54	21.47	/	16.91	15.89	14.82	/
		829.0	23.54	23.12	21.83	/	16.89	16.47	15.18	/
	1 RB low	844.0	23.51	22.52	21.47	/	16.86	15.87	14.82	/
		836.5	23.57	22.57	21.5	/	16.92	15.92	14.85	/
		829.0	23.57	23.1	21.82	/	16.92	16.45	15.17	/
	50% RB mid	844.0	22.64	21.8	20.78	/	15.99	15.15	14.13	/
		836.5	22.61	21.86	20.72	/	15.96	15.21	14.07	/
		829.0	22.65	21.79	20.77	/	16.00	15.14	14.12	/
	100% RB	844.0	22.65	21.75	20.7	/	16.00	15.10	14.05	/
		836.5	22.66	21.73	20.7	/	16.01	15.08	14.05	/
		829.0	22.64	21.74	20.73	/	15.99	15.09	14.08	/
15MH z	1 RB high	841.5	23.39	22.74	21.77	/	16.74	16.09	15.12	/
		836.5	23.41	22.79	21.81	/	16.76	16.14	15.16	/
		831.5	23.39	22.82	21.81	/	16.74	16.17	15.16	/
	1 RB low	841.5	23.4	22.78	21.83	/	16.75	16.13	15.18	/
		836.5	23.41	22.79	21.85	/	16.76	16.14	15.20	/
		831.5	23.43	22.79	21.79	/	16.78	16.14	15.14	/
	50% RB mid	841.5	22.57	21.59	20.59	/	15.92	14.94	13.94	/
		836.5	22.58	21.63	20.58	/	15.93	14.98	13.93	/
		831.5	22.61	21.61	20.63	/	15.96	14.96	13.98	/
	100% RB	841.5	22.61	21.62	20.65	/	15.96	14.97	14.00	/
		836.5	22.57	21.59	20.64	/	15.92	14.94	13.99	/
		831.5	22.61	21.63	20.67	/	15.96	14.98	14.02	/

LTE band 41- EIRP
Limits: ≤33 dBm (2W)

Max EIRP: 23.45dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	26.94	25.94	24.95	/	23.44	22.44	21.45	/
		2593	26.48	25.65	24.49	/	22.98	22.15	20.99	/
		2498.5	26.08	25.31	24.09	/	22.58	21.81	20.59	/
	1 RB low	2687.5	26.95	25.94	24.89	/	23.45	22.44	21.39	/
		2593	26.51	25.67	24.51	/	23.01	22.17	21.01	/
		2498.5	26.06	25.28	24.05	/	22.56	21.78	20.55	/
	50% RB mid	2687.5	25.97	24.92	23.95	/	22.47	21.42	20.45	/
		2593	25.69	24.68	23.77	/	22.19	21.18	20.27	/
		2498.5	25.19	24.22	23.3	/	21.69	20.72	19.80	/
	100% RB	2687.5	25.92	24.95	23.95	/	22.42	21.45	20.45	/
		2593	25.59	24.66	23.74	/	22.09	21.16	20.24	/
		2498.5	25.14	24.21	23.25	/	21.64	20.71	19.75	/
10MHz	1 RB high	2685	26.94	25.98	24.91	/	23.44	22.48	21.41	/
		2593	26.52	25.7	24.52	/	23.02	22.20	21.02	/
		2501	26.11	25.33	24.11	/	22.61	21.83	20.61	/
	1 RB low	2685	26.85	25.91	24.93	/	23.35	22.41	21.43	/
		2593	26.59	25.76	24.59	/	23.09	22.26	21.09	/
		2501	26.09	25.33	24.08	/	22.59	21.83	20.58	/
	50% RB mid	2685	25.94	24.95	23.97	/	22.44	21.45	20.47	/
		2593	25.69	24.73	23.83	/	22.19	21.23	20.33	/
		2501	25.23	24.28	23.39	/	21.73	20.78	19.89	/
	100% RB	2685	25.95	24.92	23.97	/	22.45	21.42	20.47	/
		2593	25.71	24.73	23.72	/	22.21	21.23	20.22	/
		2501	25.19	24.28	23.29	/	21.69	20.78	19.79	/
15MHz	1 RB high	2682.5	26.94	25.96	24.82	/	23.44	22.46	21.32	/
		2593	26.31	25.47	24.29	/	22.81	21.97	20.79	/
		2503.5	25.94	25.13	23.94	/	22.44	21.63	20.44	/
	1 RB low	2682.5	26.84	25.86	24.9	/	23.34	22.36	21.40	/
		2593	26.4	25.56	24.39	/	22.90	22.06	20.89	/
		2503.5	25.88	25.11	23.89	/	22.38	21.61	20.39	/
	50% RB mid	2682.5	25.94	24.95	23.94	/	22.44	21.45	20.44	/
		2593	25.6	24.54	23.57	/	22.10	21.04	20.07	/
		2503.5	25.11	24.1	23.14	/	21.61	20.60	19.64	/
	100% RB	2682.5	25.94	24.89	23.95	/	22.44	21.39	20.45	/
		2593	25.52	24.52	23.57	/	22.02	21.02	20.07	/
		2503.5	25.07	24.1	23.14	/	21.57	20.60	19.64	/

20MHz	1 RB high	2680	26.76	25.93	24.71	/	23.26	22.43	21.21	/
		2593	26.2	25.38	24.16	/	22.70	21.88	20.66	/
		2506	25.91	25.09	23.88	/	22.41	21.59	20.38	/
	1 RB low	2680	26.87	25.84	24.81	/	23.37	22.34	21.31	/
		2593	26.36	25.53	24.33	/	22.86	22.03	20.83	/
		2506	25.79	25.04	23.77	/	22.29	21.54	20.27	/
	50% RB mid	2680	25.96	24.97	23.96	/	22.46	21.47	20.46	/
		2593	25.59	24.63	23.6	/	22.09	21.13	20.10	/
		2506	25.12	24.18	23.16	/	21.62	20.68	19.66	/
	100% RB	2680	25.95	24.94	23.95	/	22.45	21.44	20.45	/
		2593	25.62	24.61	23.6	/	22.12	21.11	20.10	/
		2506	25.13	24.14	23.14	/	21.63	20.64	19.64	/

LTE band 66- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 20.39dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.74	23.04	21.99	/	20.24	19.54	18.49	/
		1745	23.62	22.84	21.91	/	20.12	19.34	18.41	/
		1710.7	23.57	22.9	21.8	/	20.07	19.40	18.30	/
	1 RB low	1779.3	23.74	23.03	21.92	/	20.24	19.53	18.42	/
		1745	23.61	22.9	21.83	/	20.11	19.40	18.33	/
		1710.7	23.57	22.98	21.88	/	20.07	19.48	18.38	/
	50% RB mid	1779.3	23.89	22.91	22.01	/	20.39	19.41	18.51	/
		1745	23.76	22.81	21.91	/	20.26	19.31	18.41	/
		1710.7	23.71	22.8	21.83	/	20.21	19.30	18.33	/
	100% RB	1779.3	22.86	21.99	20.87	/	19.36	18.49	17.37	/
		1745	22.75	21.85	20.81	/	19.25	18.35	17.31	/
		1710.7	22.67	21.84	20.75	/	19.17	18.34	17.25	/
3MHz	1 RB high	1778.5	23.85	23.11	22.03	/	20.35	19.61	18.53	/
		1745	23.8	23.18	21.97	/	20.30	19.68	18.47	/
		1711.5	23.67	22.97	21.93	/	20.17	19.47	18.43	/
	1 RB low	1778.5	23.88	23.17	22.08	/	20.38	19.67	18.58	/
		1745	23.78	23.17	22.02	/	20.28	19.67	18.52	/
		1711.5	23.72	23.09	21.88	/	20.22	19.59	18.38	/
	50% RB mid	1778.5	22.93	22.04	21.05	/	19.43	18.54	17.55	/
		1745	22.81	21.94	20.96	/	19.31	18.44	17.46	/
		1711.5	22.78	21.86	20.95	/	19.28	18.36	17.45	/
	100% RB	1778.5	22.91	21.94	20.97	/	19.41	18.44	17.47	/
		1745	22.76	21.81	20.86	/	19.26	18.31	17.36	/
		1711.5	22.75	21.79	20.85	/	19.25	18.29	17.35	/
5MHz	1 RB high	1777.5	23.67	22.91	21.83	/	20.17	19.41	18.33	/
		1745	23.6	22.89	21.81	/	20.10	19.39	18.31	/
		1712.5	23.46	22.79	21.68	/	19.96	19.29	18.18	/
	1 RB low	1777.5	23.68	22.86	21.95	/	20.18	19.36	18.45	/
		1745	23.58	22.98	21.79	/	20.08	19.48	18.29	/
		1712.5	23.51	22.91	21.74	/	20.01	19.41	18.24	/
	50% RB mid	1777.5	22.89	21.87	20.99	/	19.39	18.37	17.49	/
		1745	22.79	21.79	20.88	/	19.29	18.29	17.38	/
		1712.5	22.69	21.72	20.8	/	19.19	18.22	17.30	/
	100% RB	1777.5	22.86	21.85	20.92	/	19.36	18.35	17.42	/
		1745	22.71	21.73	20.81	/	19.21	18.23	17.31	/
		1712.5	22.65	21.67	20.72	/	19.15	18.17	17.22	/

10MH z	1 RB high	1775	23.72	23.01	21.89	/	20.22	19.51	18.39	/
		1745	23.68	22.98	21.95	/	20.18	19.48	18.45	/
		1715	23.55	22.85	21.77	/	20.05	19.35	18.27	/
	1 RB low	1775	23.79	23.09	22.05	/	20.29	19.59	18.55	/
		1745	23.65	22.95	21.86	/	20.15	19.45	18.36	/
		1715	23.61	22.94	21.87	/	20.11	19.44	18.37	/
	50% RB mid	1775	22.91	21.93	20.98	/	19.41	18.43	17.48	/
		1745	22.81	21.83	20.9	/	19.31	18.33	17.40	/
		1715	22.69	21.74	20.79	/	19.19	18.24	17.29	/
	100% RB	1775	22.91	21.92	21	/	19.41	18.42	17.50	/
		1745	22.78	21.82	20.84	/	19.28	18.32	17.34	/
		1715	22.66	21.68	20.77	/	19.16	18.18	17.27	/
15MH z	1 RB high	1772.5	23.63	22.96	21.83	/	20.13	19.46	18.33	/
		1745	23.57	22.92	21.83	/	20.07	19.42	18.33	/
		1717.5	23.39	22.69	21.63	/	19.89	19.19	18.13	/
	1 RB low	1772.5	23.63	22.99	21.85	/	20.13	19.49	18.35	/
		1745	23.53	22.88	21.76	/	20.03	19.38	18.26	/
		1717.5	23.51	22.9	21.77	/	20.01	19.40	18.27	/
	50% RB mid	1772.5	22.88	21.88	20.97	/	19.38	18.38	17.47	/
		1745	22.77	21.76	20.85	/	19.27	18.26	17.35	/
		1717.5	22.66	21.62	20.73	/	19.16	18.12	17.23	/
	100% RB	1772.5	22.83	21.8	20.86	/	19.33	18.30	17.36	/
		1745	22.72	21.71	20.8	/	19.22	18.21	17.30	/
		1717.5	22.58	21.58	20.65	/	19.08	18.08	17.15	/
20MH z	1 RB high	1770	23.55	22.82	21.74	/	20.05	19.32	18.24	/
		1745	23.49	22.79	21.68	/	19.99	19.29	18.18	/
		1720	23.36	22.72	21.58	/	19.86	19.22	18.08	/
	1 RB low	1770	23.55	22.81	21.71	/	20.05	19.31	18.21	/
		1745	23.43	22.83	21.7	/	19.93	19.33	18.20	/
		1720	23.41	22.8	21.67	/	19.91	19.30	18.17	/
	50% RB mid	1770	22.82	21.91	20.96	/	19.32	18.41	17.46	/
		1745	22.85	21.8	20.83	/	19.35	18.30	17.33	/
		1720	22.64	21.65	20.7	/	19.14	18.15	17.20	/
	100% RB	1770	22.77	21.76	20.84	/	19.27	18.26	17.34	/
		1745	22.71	21.71	20.75	/	19.21	18.21	17.25	/
		1720	22.54	21.54	20.59	/	19.04	18.04	17.09	/

LTE band 71- ERP
Limits: ≤34.77dBm (3W)

Max EIRP: 15.20dBm

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -6dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.82	22.49	21.68	/	14.67	14.34	13.53	/
		680.5	23.25	22.46	21.2	/	15.10	14.31	13.05	/
		665.5	23.25	22.58	21.57	/	15.10	14.43	13.42	/
	1 RB low	695.5	23.28	22.63	21.73	/	15.13	14.48	13.58	/
		680.5	23.35	22.56	21.34	/	15.20	14.41	13.19	/
		665.5	23.34	22.63	21.54	/	15.19	14.48	13.39	/
	50% RB mid	695.5	22.44	21.37	20.68	/	14.29	13.22	12.53	/
		680.5	22.47	21.38	20.65	/	14.32	13.23	12.50	/
		665.5	22.42	21.31	20.61	/	14.27	13.16	12.46	/
	100% RB	695.5	22.42	21.32	20.66	/	14.27	13.17	12.51	/
		680.5	22.21	21.4	20.61	/	14.06	13.25	12.46	/
		665.5	22.15	21.22	20.56	/	14.00	13.07	12.41	/
10MHz	1 RB high	693	22.85	21.99	21.76	/	14.70	13.84	13.61	/
		680.5	23.18	22.32	21.58	/	15.03	14.17	13.43	/
		668	22.92	22.47	21.61	/	14.77	14.32	13.46	/
	1 RB low	693	22.94	22.45	21.73	/	14.79	14.30	13.58	/
		680.5	23.05	22.53	21.04	/	14.90	14.38	12.89	/
		668	23	22.18	21.7	/	14.85	14.03	13.55	/
	50% RB mid	693	21.88	20.82	20.7	/	13.73	12.67	12.55	/
		680.5	22.27	21.27	20.63	/	14.12	13.12	12.48	/
		668	21.81	21.33	20.66	/	13.66	13.18	12.51	/
	100% RB	693	21.92	21.06	20.64	/	13.77	12.91	12.49	/
		680.5	22.14	21.35	20.74	/	13.99	13.20	12.59	/
		668	21.52	21.16	20.69	/	13.37	13.01	12.54	/
15MHz	1 RB high	690.5	22.98	22.34	21.61	/	14.83	14.19	13.46	/
		680.5	23.03	22.41	21.57	/	14.88	14.26	13.42	/
		670.5	22.96	22.4	21.54	/	14.81	14.25	13.39	/
	1 RB low	690.5	23.01	22.31	21.59	/	14.86	14.16	13.44	/
		680.5	23	22.55	21.62	/	14.85	14.40	13.47	/
		670.5	22.89	22.56	21.52	/	14.74	14.41	13.37	/
	50% RB mid	690.5	22.03	21.08	20.59	/	13.88	12.93	12.44	/
		680.5	22.16	21.11	20.65	/	14.01	12.96	12.50	/
		670.5	21.77	20.97	20.65	/	13.62	12.82	12.50	/
	100% RB	690.5	22.09	20.8	20.51	/	13.94	12.65	12.36	/
		680.5	21.93	20.9	20.61	/	13.78	12.75	12.46	/
		670.5	21.66	20.6	20.54	/	13.51	12.45	12.39	/

20MHz	1 RB high	688	22.97	22.11	21.47	/	14.82	13.96	13.32	/
		680.5	23.04	22.09	21.51	/	14.89	13.94	13.36	/
		673	22.98	22.06	21.46	/	14.83	13.91	13.31	/
	1 RB low	688	23.09	22.18	21.57	/	14.94	14.03	13.42	/
		680.5	23.18	22.35	21.52	/	15.03	14.20	13.37	/
		673	22.91	22.24	21.5	/	14.76	14.09	13.35	/
	50% RB mid	688	22	20.89	20.59	/	13.85	12.74	12.44	/
		680.5	22.48	21.18	20.65	/	14.33	13.03	12.50	/
		673	22.07	20.93	20.6	/	13.92	12.78	12.45	/
	100% RB	688	22.13	21.08	20.48	/	13.98	12.93	12.33	/
		680.5	22.48	21.17	20.67	/	14.33	13.02	12.52	/
		673	21.91	20.73	20.42	/	13.76	12.58	12.27	/

LTE band 5B-EIRP
Limits: ≤38.45dBm (7W)

Max ERP: 17.24dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -6.5dBi
				Size	Offset	Size	Offset		
3MHz/ 5MHz	834.1	838	QPSK	1	14	1	0	23.66	17.16
				15	0	25	0	23.59	17.09
			16QAM	1	14	1	0	23.66	17.16
				15	0	25	0	23.57	17.07
			64QAM	1	14	1	0	23.42	16.92
				15	0	25	0	23.63	17.13
5MHz/ 3MHz	835	838.9	QPSK	1	24	1	0	23.59	17.09
				25	0	15	0	23.52	17.02
			16QAM	1	24	1	0	23.6	17.1
				25	0	15	0	23.48	16.98
			64QAM	1	24	1	0	23.45	16.95
				25	0	15	0	23.49	16.99
5MHz/ 10MHz	831.8	839	QPSK	1	24	1	0	23.66	17.16
				25	0	50	0	21.6	15.1
			16QAM	1	24	1	0	22.53	16.03
				25	0	50	0	20.57	14.07
			64QAM	1	24	1	0	20.54	14.04
				25	0	50	0	20.6	14.1
10MHz/ 5MHz	834	841.2	QPSK	1	49	1	0	23.58	17.08
				50	0	25	0	23.54	17.04
			16QAM	1	49	1	0	23.61	17.11
				50	0	25	0	23.52	17.02
			64QAM	1	49	1	0	23.38	16.88
				50	0	25	0	23.56	17.06
10MHz/ 10MHz	831.6	841.5	QPSK	1	49	1	0	23.74	17.24
				50	0	50	0	21.58	15.08
			16QAM	1	49	1	0	22.73	16.23
				50	0	50	0	20.57	14.07
			64QAM	1	49	1	0	20.45	13.95
				50	0	50	0	20.55	14.05

LTE band 66B- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 20.15dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -3.5dBi
				Size	Offset	Size	Offset		
5MHz/ 5MHz	1752.6	1757.4	QPSK	1	24	1	0	23.53	20.03
				25	0	25	0	23.45	19.95
			16QAM	1	24	1	0	23.52	20.02
				25	0	25	0	23.45	19.95
			64QAM	1	24	1	0	23.37	19.87
				25	0	25	0	23.43	19.93
5MHz/ 10MHz	1750.3	1757.5	QPSK	1	24	1	0	23.56	20.06
				25	0	50	0	21.52	18.02
			16QAM	1	24	1	0	22.47	18.97
				25	0	50	0	20.58	17.08
			64QAM	1	24	1	0	20.69	17.19
				25	0	50	0	20.55	17.05
5MHz/ 15MHz	1748.1	1757.4	QPSK	1	24	1	0	23.53	20.03
				25	0	75	0	23.43	19.93
			16QAM	1	24	1	0	23.38	19.88
				25	0	75	0	23.43	19.93
			64QAM	1	24	1	0	23.6	20.1
				25	0	75	0	23.42	19.92
10MHz/ 5MHz	1752.5	1759.7	QPSK	1	49	1	0	23.54	20.04
				50	0	25	0	23.5	20
			16QAM	1	49	1	0	23.54	20.04
				50	0	25	0	23.5	20
			64QAM	1	49	1	0	23.27	19.77
				50	0	25	0	23.49	19.99
10MHz/ 10MHz	1750.1	1760	QPSK	1	49	1	0	23.65	20.15
				50	0	50	0	21.52	18.02
			16QAM	1	49	1	0	22.43	18.93
				50	0	50	0	20.55	17.05
			64QAM	1	49	1	0	20.42	16.92
				50	0	50	0	20.56	17.06
15MHz/ 5MHz	1752.6	1761.9	QPSK	1	74	1	0	23.39	19.89
				75	0	25	0	23.42	19.92
			16QAM	1	74	1	0	23.17	19.67
				75	0	25	0	23.35	19.85

			64QAM	1	74	1	0	23.15	19.65
				75	0	25	0	23.38	19.88

LTE band 66C- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 21.09dBm

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -3.5dBi
				Size	Offset	Size	Offset		
5MHz/ 20MHz	1745.8	1757.5	QPSK	1	24	1	0	24.47	20.97
				25	0	100	0	22.47	18.97
			16QAM	1	24	1	0	23.57	20.07
				25	0	100	0	21.46	17.96
			64QAM	1	24	1	0	21.33	17.83
				25	0	100	0	21.45	17.95
10MHz/ 15MHz	1747.9	1757.9	QPSK	1	49	1	0	24.53	21.03
				50	0	75	0	24.5	21
			16QAM	1	49	1	0	24.51	21.01
				50	0	75	0	24.43	20.93
			64QAM	1	49	1	0	24.25	20.75
				50	0	75	0	24.44	20.94
10MHz/ 20MHz	1745.6	1760	QPSK	1	49	1	0	24.59	21.09
				50	0	100	0	22.51	19.01
			16QAM	1	49	1	0	23.34	19.84
				50	0	100	0	21.48	17.98
			64QAM	1	49	1	0	21.24	17.74
				50	0	100	0	21.5	18
15MHz/ 10MHz	1750.1	1762.1	QPSK	1	74	1	0	24.42	20.92
				75	0	50	0	24.48	20.98
			16QAM	1	74	1	0	24.19	20.69
				75	0	50	0	24.43	20.93
			64QAM	1	74	1	0	24.37	20.87
				75	0	50	0	24.43	20.93
15MHz/ 15MHz	1747.5	1762.5	QPSK	1	74	1	0	24.53	21.03
				75	0	75	0	22.5	19
			16QAM	1	74	1	0	23.55	20.05
				75	0	75	0	21.45	17.95
			64QAM	1	74	1	0	21.59	18.09
				75	0	75	0	21.43	17.93
15MHz/ 20MHz	1745.3	1762.4	QPSK	1	74	1	0	24.55	21.05
				75	0	100	0	22.46	18.96
			16QAM	1	74	1	0	23.62	20.12
				75	0	100	0	21.43	17.93

			64QA	1	74	1	0	21.21	17.71
			M	75	0	100	0	21.41	17.91
20MHz/ 5MHz	1752.5	1764.2	QPSK	1	99	1	0	24.39	20.89
				100	0	25	0	22.43	18.93
			16QA	1	99	1	0	23.41	19.91
				100	0	25	0	21.42	17.92
			64QA	1	99	1	0	21.51	18.01
				100	0	25	0	21.4	17.9
20MHz/ 10MHz	1750.1	1764.5	QPSK	1	99	1	0	24.4	20.9
				100	0	50	0	22.46	18.96
			16QA	1	99	1	0	23.6	20.1
				100	0	50	0	21.42	17.92
			64QA	1	99	1	0	21.51	18.01
				100	0	50	0	21.47	17.97
20MHz/ 15MHz	1747.6	1764.7	QPSK	1	99	1	0	24.5	21
				100	0	75	0	22.41	18.91
			16QA	1	99	1	0	23.53	20.03
				100	0	75	0	21.41	17.91
			64QA	1	99	1	0	21.63	18.13
				100	0	75	0	21.41	17.91
20MHz/ 20MHz	1745.1	1764.9	QPSK	1	99	1	0	24.54	21.04
				100	0	100	0	22.46	18.96
			16QA	1	99	1	0	23.57	20.07
				100	0	100	0	21.43	17.93
			64QA	1	99	1	0	21.67	18.17
				100	0	100	0	21.43	17.93

Note: Expanded measurement uncertainty is $U = 0.578 \text{ dB}$, $k = 2$.

A.2 Emission Limit

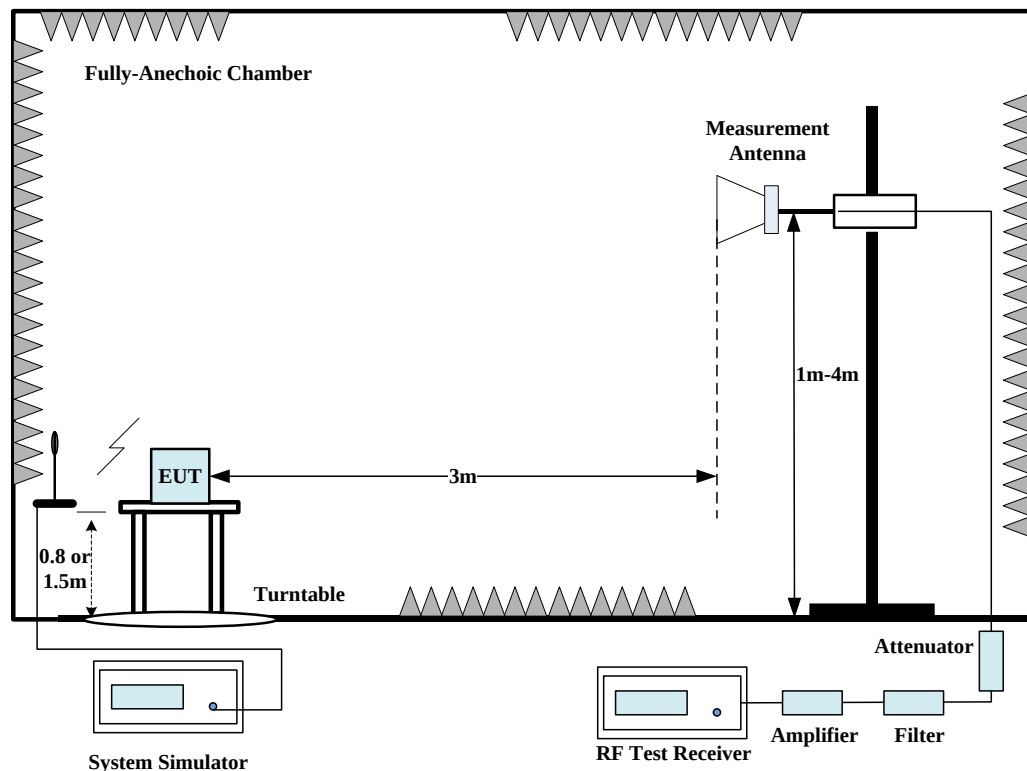
A.2.1 Measurement Method

The measurement procedures in C63.26 are used.

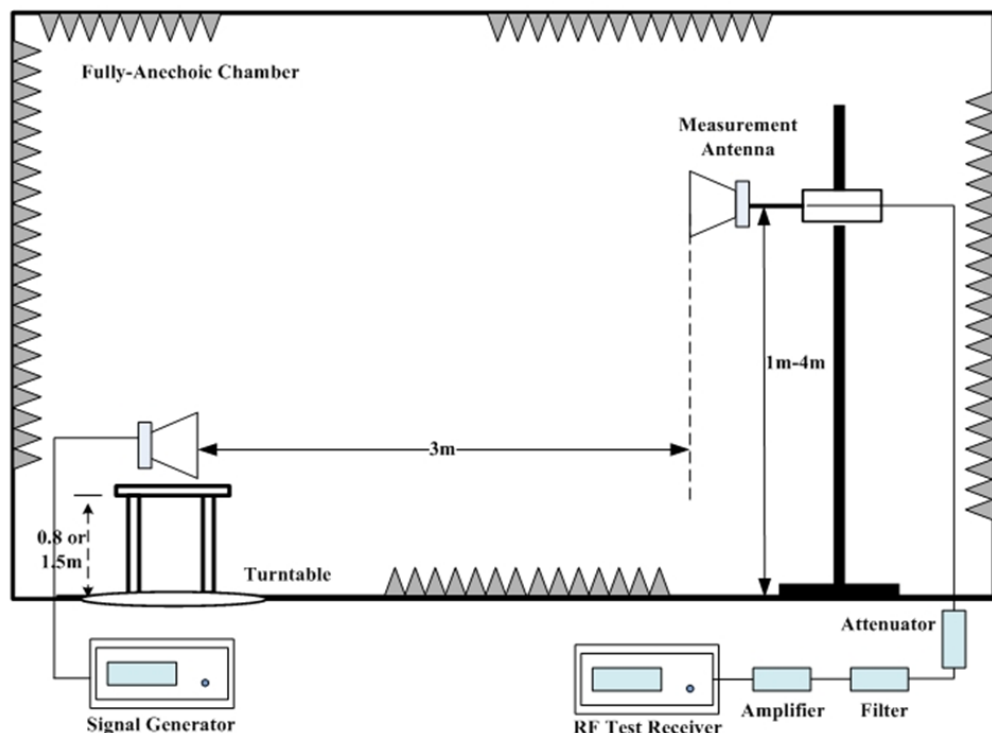
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

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



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



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

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

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

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

A.2.2 Measurement Limit

FDD Band 2/25: Part 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 12/13/71: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in

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

LTE Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ 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 $43 + 10 \log_{10}(P)$ 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 37.5 kHz.

FDD Band 5/26(824MHz~849MHz): Part 22.917 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.

TDD Band 41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ 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 4/66: Part 27.53(h) 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.

A.2.3 Measurement Results

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

Note 1: All CA UL combination bands have been tested, only the worst cases are reported.

Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2.4 Measurement Results Table

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

A.2.5 Sweep Table

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

Test note

Investigation has been done on all modes and modulations/data rates. In total, three EUT elevation positions are measured. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

A.2.6 Measurement Result

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
1403.50	-48.49	1.93	4.84	2.15	-47.73	-13.00	34.73	V
2098.50	-41.41	3.52	4.90	2.15	-42.18	-13.00	29.18	H
2809.00	-36.53	5.21	7.26	2.15	-36.63	-13.00	23.63	V
3498.50	-60.60	2.98	8.20	2.15	-57.53	-13.00	44.53	H
4202.50	-59.14	4.68	9.35	2.15	-56.62	-13.00	43.62	V
4903.50	-58.88	4.89	10.21	2.15	-55.71	-13.00	42.71	V

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
1420.00	-47.59	2.24	5.04	2.15	-46.94	-13.00	33.94	H
2113.50	-41.17	3.67	5.15	2.15	-41.84	-13.00	28.84	H
2823.00	-36.50	5.12	7.27	2.15	-36.50	-13.00	23.50	V
3537.50	-60.42	3.28	8.29	2.15	-57.56	-13.00	44.56	H
4240.00	-59.84	4.44	9.39	2.15	-57.04	-13.00	44.04	H
4957.50	-59.55	4.92	10.36	2.15	-56.26	-13.00	43.26	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
1430.50	-42.26	1.89	5.17	2.15	-41.13	-13.00	28.13	H
2150.50	-36.16	3.70	5.60	2.15	-36.41	-13.00	23.41	V
2865.50	-31.68	5.48	7.10	2.15	-32.21	-13.00	19.21	V
3577.00	-53.42	3.07	8.38	2.15	-50.26	-13.00	37.26	H
4290.50	-52.37	4.65	9.40	2.15	-49.77	-13.00	36.77	V
5005.00	-54.09	5.15	10.51	2.15	-50.88	-13.00	37.88	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
1559.00	-39.40	3.47	5.39	0.00	-53.02	-40.00	13.02	V
2337.76	-32.82	4.44	5.61	2.15	-33.80	-13.00	20.80	V
3122.50	-53.06	5.39	7.29	2.15	-53.31	-13.00	40.31	H
3902.50	-52.41	6.11	8.76	2.15	-51.91	-13.00	38.91	H
4672.50	-53.32	6.48	9.57	2.15	-52.38	-13.00	39.38	V
5460.00	-51.27	6.91	10.54	2.15	-49.79	-13.00	36.79	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
1564.10	-52.55	3.48	5.38	0.00	-52.80	-40.00	12.80	H
2345.71	-33.70	4.45	5.64	2.15	-34.66	-13.00	21.66	H
3127.50	-52.45	5.40	7.31	2.15	-52.69	-13.00	39.69	V
3910.00	-50.29	6.12	8.77	2.15	-49.79	-13.00	36.79	H
4687.50	-52.03	6.49	9.59	2.15	-51.08	-13.00	38.08	V
5477.50	-51.28	6.97	10.57	2.15	-49.83	-13.00	36.83	H

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
1558.53	-40.99	3.47	5.39	2.15	-41.22	-13.00	28.22	V
2363.58	-33.29	4.47	5.69	2.15	-34.22	-13.00	21.22	V
3125.00	-53.18	5.40	7.30	2.15	-53.43	-13.00	40.43	V
3922.50	-52.77	6.12	8.79	2.15	-52.25	-13.00	39.25	V
4697.50	-52.18	6.50	9.60	2.15	-51.23	-13.00	38.23	V
5497.50	-50.18	7.05	10.60	2.15	-48.78	-13.00	35.78	H

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
3697.00	-57.71	3.45	8.21	-52.95	-13.00	39.95	H
5553.50	-55.72	5.33	11.00	-50.05	-13.00	37.05	H
7399.50	-48.77	8.10	12.10	-44.77	-13.00	31.77	V
9261.50	-48.68	8.85	13.70	-43.83	-13.00	30.83	V
11113.00	-46.03	9.82	13.50	-42.35	-13.00	29.35	V
12964.00	-43.01	12.52	13.69	-41.84	-13.00	28.84	H

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
3752.00	-56.67	3.86	8.60	-51.93	-13.00	38.93	V
5651.00	-54.76	5.59	11.05	-49.30	-13.00	36.30	H
7518.00	-48.94	7.71	12.37	-44.28	-13.00	31.28	V
9407.00	-48.89	9.08	13.60	-44.37	-13.00	31.37	V
11292.50	-45.58	10.62	13.59	-42.61	-13.00	29.61	H
13189.00	-42.75	13.11	14.27	-41.59	-13.00	28.59	V

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
3828.00	-52.78	3.92	8.62	-48.08	-13.00	35.08	H
5742.50	-54.06	5.86	10.92	-49.00	-13.00	36.00	H
7648.50	-50.91	6.84	12.30	-45.45	-13.00	32.45	V
9565.00	-48.73	8.62	13.43	-43.92	-13.00	30.92	V
11500.00	-44.10	12.24	13.40	-42.94	-13.00	29.94	V
13396.50	-42.29	12.45	14.49	-40.25	-13.00	27.25	V

LTE Band 26(824MHz~849MHz), 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
1648.00	-41.59	2.61	6.39	2.15	-39.96	-13.00	26.96	V
2477.50	-32.32	4.33	5.82	2.15	-32.98	-13.00	19.98	V
3313.50	-56.37	3.00	7.83	2.15	-53.69	-13.00	40.69	H
4124.00	-53.20	4.72	9.32	2.15	-50.75	-13.00	37.75	H
4936.00	-54.29	4.89	10.27	2.15	-51.06	-13.00	38.06	H
5761.00	-52.25	5.81	10.90	2.15	-49.31	-13.00	36.31	H

LTE Band 26(824MHz~849MHz), 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
1664.50	-41.23	2.91	6.34	2.15	-39.95	-13.00	26.95	V
2513.50	-32.97	4.29	5.80	2.15	-33.61	-13.00	20.61	V
3346.00	-52.13	3.46	7.89	2.15	-49.85	-13.00	36.85	H
4182.50	-51.96	4.07	9.32	2.15	-48.86	-13.00	35.86	H
5015.50	-53.50	5.11	10.53	2.15	-50.23	-13.00	37.23	V
5847.50	-52.73	5.59	10.90	2.15	-49.57	-13.00	36.57	V

LTE Band 26(824MHz~849MHz), 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
1708.00	-40.62	2.69	5.89	2.15	-39.57	-13.00	26.57	V
2549.00	-32.56	4.59	5.80	2.15	-33.50	-13.00	20.50	V
3393.50	-53.52	3.53	8.18	2.15	-51.02	-13.00	38.02	H
4241.50	-52.12	4.44	9.39	2.15	-49.32	-13.00	36.32	H
5097.00	-54.66	5.30	10.50	2.15	-51.61	-13.00	38.61	H
5951.50	-53.18	5.48	10.90	2.15	-49.91	-13.00	36.91	H

LTE Band 26(814MHz~824MHz), 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1632.00	-41.36	2.39	6.29	2.15	-39.61	-13.00	26.61	H
2458.50	-33.24	4.41	5.84	2.15	-33.96	-13.00	20.96	H
3269.50	-56.07	3.03	7.70	2.15	-53.55	-13.00	40.55	H
4074.00	-52.62	4.34	9.13	2.15	-49.98	-13.00	36.98	H
4893.50	-54.21	4.83	10.11	2.15	-51.08	-13.00	38.08	V
5711.50	-51.15	5.93	10.98	2.15	-48.25	-13.00	35.25	H

LTE Band 26(814MHz~824MHz), 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
1648.50	-41.82	2.61	6.39	2.15	-40.19	-13.00	27.19	V
2458.50	-32.90	4.41	5.84	2.15	-33.62	-13.00	20.62	H
3261.50	-55.44	2.99	7.70	2.15	-52.88	-13.00	39.88	V
4108.50	-53.54	4.01	9.28	2.15	-50.42	-13.00	37.42	V
4920.00	-53.49	4.98	10.24	2.15	-50.38	-13.00	37.38	V
5723.00	-52.44	5.90	10.95	2.15	-49.54	-13.00	36.54	H

LTE Band 26(814MHz~824MHz), 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
1658.50	-42.05	3.00	6.34	2.15	-40.86	-13.00	27.86	H
2474.50	-33.41	4.33	5.83	2.15	-34.06	-13.00	21.06	V
3295.50	-55.57	3.59	7.70	2.15	-53.61	-13.00	40.61	H
4113.50	-53.43	4.04	9.29	2.15	-50.33	-13.00	37.33	H
4926.50	-54.05	4.88	10.25	2.15	-50.83	-13.00	37.83	H
5751.50	-52.64	5.83	10.90	2.15	-49.72	-13.00	36.72	H

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4997.50	-59.12	5.17	10.40	-53.89	-25.00	28.89	V
7496.00	-41.61	7.70	12.30	-37.01	-25.00	12.01	V
9994.50	-50.74	9.36	13.39	-46.71	-25.00	21.71	H
12493.00	-47.75	12.34	13.59	-46.50	-25.00	21.50	H
14992.50	-43.22	14.77	14.10	-43.89	-25.00	18.89	V
17486.00	-36.41	19.75	14.39	-41.77	-25.00	16.77	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5172.00	-61.17	5.80	10.53	-56.44	-25.00	31.44	H
7779.50	-47.48	7.37	12.40	-42.45	-25.00	17.45	V
10373.00	-47.34	10.72	13.30	-44.76	-25.00	19.76	H
12955.50	-49.79	12.50	13.67	-48.62	-25.00	23.62	H
15560.00	-40.37	16.70	13.60	-43.47	-25.00	18.47	H
17983.00	-36.96	19.97	14.80	-42.13	-25.00	17.13	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-53.47	5.75	10.65	-48.57	-25.00	23.57	H
8063.00	-43.78	7.86	12.76	-38.88	-25.00	13.88	V
10744.50	-52.17	9.85	13.24	-48.78	-25.00	23.78	V
13438.50	-45.86	12.56	14.54	-43.88	-25.00	18.88	H
16126.50	-43.79	17.03	13.45	-47.37	-25.00	22.37	V
17985.00	-36.85	19.97	14.80	-42.02	-25.00	17.02	H

LTE Band 66, 1.4MHz, QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3421.50	-56.64	3.24	8.27	-51.61	-13.00	38.61	H
5132.00	-51.62	5.56	10.58	-46.60	-13.00	33.60	V
6843.00	-56.45	6.54	11.51	-51.48	-13.00	38.48	H
8557.50	-59.30	8.51	13.20	-54.61	-13.00	41.61	H
10270.50	-55.86	10.76	13.30	-53.32	-13.00	40.32	H
11964.50	-52.64	12.34	13.00	-51.98	-13.00	38.98	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-62.65	2.86	8.21	-57.30	-13.00	44.30	H
5235.50	-52.61	4.70	10.41	-46.90	-13.00	33.90	V
6980.00	-59.12	8.06	11.60	-55.58	-13.00	42.58	V
8739.00	-59.99	7.86	13.31	-54.54	-13.00	41.54	H
10455.50	-54.74	10.34	13.24	-51.84	-13.00	38.84	H
12220.00	-52.50	12.16	13.24	-51.42	-13.00	38.42	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3558.50	-66.53	2.98	8.36	-61.15	-13.00	48.15	H
5338.00	-55.64	6.18	10.51	-51.31	-13.00	38.31	H
7117.50	-59.79	6.56	11.70	-54.65	-13.00	41.65	H
8902.50	-60.03	8.05	13.30	-54.78	-13.00	41.78	V
10685.50	-57.18	10.01	13.21	-53.98	-13.00	40.98	H
12461.50	-52.30	12.85	13.56	-51.59	-13.00	38.59	V

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331.50	-31.67	1.84	3.94	2.15	-31.72	-13.00	18.72	V
1993.50	-36.71	3.39	4.59	2.15	-37.66	-13.00	24.66	V
2647.50	-32.56	4.79	6.49	2.15	-33.01	-13.00	20.01	H
3341.50	-56.46	3.18	7.88	2.15	-53.91	-13.00	40.91	H
3987.50	-54.94	3.80	9.10	2.15	-51.79	-13.00	38.79	H
4665.00	-54.77	5.00	9.76	2.15	-52.16	-13.00	39.16	H

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1350.00	-42.23	1.78	3.90	2.15	-42.26	-13.00	29.26	H
2042.50	-36.32	3.71	4.78	2.15	-37.40	-13.00	24.40	H
2710.00	-31.63	4.88	6.68	2.15	-31.98	-13.00	18.98	V
3406.50	-56.14	3.48	8.26	2.15	-53.51	-13.00	40.51	V
4069.00	-54.25	4.36	9.13	2.15	-51.63	-13.00	38.63	H
4774.50	-53.85	4.81	9.83	2.15	-50.98	-13.00	37.98	H

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1391.50	-38.33	1.87	4.17	2.15	-38.18	-13.00	25.18	V
2088.50	-36.42	3.52	4.89	2.15	-37.20	-13.00	24.20	H
2777.00	-32.21	4.89	7.11	2.15	-32.14	-13.00	19.14	V
3469.00	-54.63	3.78	8.23	2.15	-52.33	-13.00	39.33	V
4178.00	-54.81	4.04	9.32	2.15	-51.68	-13.00	38.68	V
4859.50	-54.02	5.22	10.14	2.15	-51.25	-13.00	38.25	H