



TEST REPORT

No. I21Z60790-WMD03

for

Honor Device Co., Ltd.

Smart Phone

Model Name: NTH-NX9

FCC ID: 2AYGCNTH-NX9

with

Hardware Version: HN2NTHM

Software Version: 4.2.0.107(C900E107R1P2)

Issued Date: 2021-08-23

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.

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.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z60790-WMD03	Rev.0	1 st edition	2021-08-18
I21Z60790-WMD03	Rev.1	2 rd edition Modify the nominal voltage to 3.87V.	2021-08-23

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(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China 100191

1.3. Testing Environment

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

1.4. Project Data

Testing Start Date: 2021-06-08
Testing End Date: 2021-08-10

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: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
Contact: Li Ming
Email: liming136@hihonor.com
Telephone: 0755-61886688

2.2. Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen,
Guangdong, China
Contact: Li Ming
Email: liming136@hihonor.com
Telephone: 0755-61886688

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

3.1. About EUT

Description	Smart Phone
Model Name	NTH-NX9
FCC ID	2AYGCNTH-NX9
Antenna	Embedded
Output power	23.59 dBm maximum EIRP measured for LTE Band 38
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.87VDC)
Extreme temp. Tolerance	0°C to +35°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
UT15a	861997050025597/	HN2NTHM	4.2.0.107(C900E107R1P2)	2021-06-08
	861997050028690			
UT35a	861997050027007/	HN2NTHM	4.2.0.107(C900E107R1P2)	2021-06-15
	861997050030100			
UT36a	861997050027312/	HN2NTHM	4.2.0.107(C900E107R1P2)	2021-06-15
	861997050030415			

*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	SN	Note
AE1	Battery	/	EUT1
AE2	Charger	/	NEW
AE3	Charger	/	OLD
AE4	USB Cable	/	LUXSHARE
AE5	USB Cable	/	Mingji
AE6	Headset	/	Foster
AE7	Headset	/	Lianchuang
AE8	Headset	/	Quancheng
AE9	Battery	/	EUT2

AE1

Model	HB476489EFW
Manufacturer	SCUD
Capacitance	4200mAh
Nominal voltage	/

AE2

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd.
Note	NEW

AE3

Model	HW-110600X00
Manufacturer	Honor Device Co., Ltd.
Note	OLD

AE4

Model	L99UC139-CS-H
Manufacturer	LUXSHARE
Length	/

AE5

Model	213-01011-0
Manufacturer	Mingji
Length	/

AE6

Model	640958
Manufacturer	Foster
Length	/

AE7

Model	MEND1632B729012
Manufacturer	Lianchuang
Length	/

AE8

Model	1331-3301-6001-TC-347
Manufacturer	Quancheng
Length	/

AE9

Model	HB476489EFW
Manufacturer	Sunwoda
Capacitance	4200mAh
Nominal voltage	/

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

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

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	10-1-20 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-20 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-20 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-20 Edition
ANSI/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. Laboratory Environment

Semi-anechoic chamber 2 / Fully-anechoic chamber 3 (10 meters×6.7 meters×6.15 meters)
did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	>2 MΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	<±3.5 dB, 3 m distance
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 3000 MHz

6. Summary Of Test Result

LTE Band 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 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 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

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 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)

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 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 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

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.

LTE Band 26 and Band 12 overlaps the entire frequency range of LTE Band 5 and Band 17. Therefore, test data provided in this report covers Band 5, Band 17 as well as Band 26, Band 12. LTE Band 41 is tested by power class 3.

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM 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.

FDD 2 is supported by ANT1&6 and output power is tested on both of them while other test cases are only tested on ANT1.

FDD 4 is supported by ANT1&6 and output power is tested on both of them while other test cases are only tested on ANT1.

FDD 5 is supported by ANT0&2 and output power is tested on both of them while other test cases are only tested on ANT0.

FDD 7 is supported by ANT3&9&1&6 and output power is tested on all of them while other test cases are only tested on ANT3.

FDD 12 is supported by ANT0&2 and output power is tested on both of them while other test cases are only tested on ANT0.

FDD 26 is supported by ANT0&2 and output power is tested on both of them while other test cases are only tested on ANT0.

TDD 38 is supported by ANT1&6 and output power is tested on both of them while other test cases are only tested on ANT1.

TDD 41 is supported by ANT1&6 and output power is tested on both of them while other test cases are only tested on ANT1.

FDD 66 is supported by ANT1&6 and output power is tested on both of them while other test cases are only tested on ANT1.

7. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2021-12-17	1 year
Spectrum Analyzer	FSU	200030	R&S	2022-06-02	1 year
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2021-08-12	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
Test Receiver	E4440A	MY48250642	Agilent	2022-03-04	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2021-12-01	1 year
EMI Antenna	VULB9163	9163-235	Schwarzbeck	2022-04-07	1 year
Signal Generator	N5183A	MY49060052	Agilent	2022-07-11	1 year
EMI Antenna	3117	00058889	ETS-Lindgren	2021-09-22	1 year
EMI Antenna	3117	00119021	ETS-Lindgren	2022-01-14	1 year
Universal Radio Communication Tester	CMW500	166204	R&S	2021-10-29	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.

A.1.2.2 Measurement Result

LTE Band 2-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	22.30	21.20	20.86
		1880.0	22.47	21.96	21.07
		1850.7	22.43	22.19	21.04
	1 RB low	1909.3	22.28	21.16	21.03
		1880.0	22.54	21.94	21.20
		1850.7	22.48	22.07	21.12
	50% RB mid	1909.3	22.15	21.07	20.81
		1880.0	22.56	21.67	21.11
		1850.7	22.53	21.78	21.22
	100% RB	1909.3	21.17	20.17	19.63
		1880.0	21.51	20.38	20.05
		1850.7	21.54	20.46	20.05
3MHz	1 RB high	1908.5	22.69	21.04	20.94
		1880.0	22.68	21.98	21.21
		1851.5	22.56	21.61	21.09
	1 RB low	1908.5	22.71	21.16	21.08
		1880.0	22.78	22.15	21.24
		1851.5	22.71	21.80	21.17
	50% RB mid	1908.5	21.55	20.39	19.85
		1880.0	21.76	20.76	20.14
		1851.5	21.78	20.72	20.12
	100% RB	1908.5	21.54	20.32	19.79

		1880.0	21.68	20.65	19.69
		1851.5	21.72	20.62	20.04
5MHz	1 RB high	1907.5	22.49	21.36	20.92
		1880.0	22.66	22.16	21.28
		1852.5	22.59	21.94	21.24
	1 RB low	1907.5	22.42	21.44	21.03
		1880.0	22.69	22.18	21.26
		1852.5	22.63	21.96	21.39
	50% RB mid	1907.5	21.47	20.37	19.83
		1880.0	21.66	20.77	20.11
		1852.5	21.73	20.87	20.10
	100% RB	1907.5	21.44	20.28	19.80
		1880.0	21.63	20.66	20.00
		1852.5	21.66	20.79	20.06
10MHz	1 RB high	1905.0	22.79	21.25	21.02
		1880.0	22.67	22.12	21.40
		1855.0	22.64	21.60	21.16
	1 RB low	1905.0	22.63	21.34	20.82
		1880.0	22.76	22.23	21.17
		1855.0	22.70	21.67	21.21
	50% RB mid	1905.0	21.64	20.39	19.96
		1880.0	21.82	20.71	20.07
		1855.0	21.75	20.76	20.17
	100% RB	1905.0	21.55	20.39	19.85
		1880.0	21.77	20.66	20.15
		1855.0	21.76	20.70	20.06
15MHz	1 RB high	1902.5	22.71	21.74	20.83
		1880.0	22.66	21.51	21.38
		1857.5	22.62	21.96	21.38
	1 RB low	1902.5	22.69	21.74	21.03
		1880.0	22.63	21.60	21.21
		1857.5	22.64	22.00	21.34
	50% RB mid	1902.5	21.56	20.34	19.73
		1880.0	21.71	20.67	20.01
		1857.5	21.69	20.73	20.03
	100% RB	1902.5	21.56	20.33	19.69
		1880.0	21.69	20.62	19.89
		1857.5	21.67	20.66	19.96
20MHz	1 RB high	1900.0	22.27	21.66	20.91
		1880.0	22.47	21.90	21.17
		1860.0	22.43	21.88	21.47
	1 RB low	1900.0	22.28	21.82	20.79
		1880.0	22.44	21.87	21.43

		1860.0	22.41	21.83	21.34
	50% RB mid	1900.0	21.37	20.21	19.90
		1880.0	21.50	20.54	20.10
		1860.0	21.57	20.50	20.08
	100% RB	1900.0	21.35	20.25	19.85
		1880.0	21.55	20.52	20.02
		1860.0	21.58	20.58	20.03

LTE Band 2-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	21.34	20.34	19.18
		1880.0	21.66	20.93	19.63
		1850.7	21.61	21.06	19.79
	1 RB low	1909.3	21.22	20.46	19.39
		1880.0	21.81	21.00	19.70
		1850.7	21.77	21.06	20.03
	50% RB mid	1909.3	21.17	20.14	19.24
		1880.0	21.76	20.71	19.56
		1850.7	21.80	20.88	19.82
	100% RB	1909.3	20.26	19.36	18.09
		1880.0	20.78	19.66	18.51
		1850.7	20.83	19.86	18.71
3MHz	1 RB high	1908.5	21.39	20.32	19.42
		1880.0	21.56	21.05	19.80
		1851.5	21.71	21.04	19.88
	1 RB low	1908.5	21.55	20.72	19.48
		1880.0	21.80	21.08	20.02
		1851.5	21.92	21.19	19.94
	50% RB mid	1908.5	20.28	19.38	18.19
		1880.0	20.88	19.82	18.69
		1851.5	20.96	19.85	18.88
	100% RB	1908.5	20.37	19.33	18.23
		1880.0	20.73	19.68	18.65
		1851.5	20.85	19.96	18.75
5MHz	1 RB high	1907.5	21.41	20.41	19.22
		1880.0	21.75	21.06	19.77
		1852.5	21.76	21.11	19.92
	1 RB low	1907.5	21.47	20.64	19.32
		1880.0	21.88	21.06	19.77
		1852.5	21.98	21.19	20.00
	50% RB mid	1907.5	20.36	19.45	18.17
		1880.0	20.78	19.70	18.60
		1852.5	20.91	19.94	18.71
	100% RB	1907.5	20.45	19.28	18.13
		1880.0	20.73	19.77	18.51
		1852.5	20.91	19.88	18.86
10MHz	1 RB high	1905.0	21.47	20.68	20.40
		1880.0	21.57	21.07	20.07
		1855.0	21.77	21.13	20.11
	1 RB low	1905.0	21.51	20.54	20.37

		1880.0	21.84	21.17	20.05
		1855.0	21.82	21.34	20.08
	50% RB mid	1905.0	20.60	19.37	19.49
		1880.0	20.73	19.82	18.75
		1855.0	20.88	19.95	19.06
	100% RB	1905.0	20.36	19.29	19.32
		1880.0	20.77	19.75	18.88
		1855.0	20.88	19.96	18.86
15MHz	1 RB high	1902.5	21.43	20.47	19.54
		1880.0	21.49	20.78	19.60
		1857.5	21.67	20.99	19.92
	1 RB low	1902.5	21.27	20.47	19.62
		1880.0	21.64	20.86	19.92
		1857.5	21.71	21.18	19.91
	50% RB mid	1902.5	20.36	19.36	18.38
		1880.0	20.66	19.60	18.62
		1857.5	20.85	19.77	18.74
	100% RB	1902.5	20.40	19.19	18.29
		1880.0	20.71	19.69	18.48
		1857.5	20.89	19.84	18.68
20MHz	1 RB high	1900.0	21.80	20.82	19.85
		1880.0	22.00	21.27	20.37
		1860.0	21.91	21.25	20.32
	1 RB low	1900.0	21.77	20.99	19.67
		1880.0	21.97	21.21	20.33
		1860.0	22.00	21.29	20.35
	50% RB mid	1900.0	20.86	19.66	18.68
		1880.0	21.09	20.01	19.06
		1860.0	21.14	20.08	19.09
	100% RB	1900.0	20.82	19.85	18.71
		1880.0	21.07	20.07	18.93
		1860.0	21.16	20.08	19.03

LTE Band 4-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	23.16	22.09	21.79
		1732.5	23.01	22.23	21.56
		1710.7	23.14	22.76	21.63
	1 RB low	1754.3	23.08	22.04	21.58
		1732.5	23.03	22.27	21.61
		1710.7	23.09	22.64	21.51
	50% RB mid	1754.3	23.17	22.34	21.39
		1732.5	23.09	22.16	21.59
		1710.7	23.15	22.38	21.44
	100% RB	1754.3	22.15	21.28	20.43
		1732.5	22.12	21.29	20.36
		1710.7	22.21	21.11	20.50
3MHz	1 RB high	1753.5	23.45	22.21	21.73
		1732.5	23.32	22.68	21.59
		1711.5	23.30	22.38	21.67
	1 RB low	1753.5	23.40	22.20	21.68
		1732.5	23.28	22.67	21.63
		1711.5	23.30	22.44	21.58
	50% RB mid	1753.5	22.49	21.43	20.42
		1732.5	22.35	21.37	20.39
		1711.5	22.45	21.41	20.57
	100% RB	1753.5	22.45	21.35	20.43
		1732.5	22.36	21.34	20.42
		1711.5	22.37	21.31	20.52
5MHz	1 RB high	1752.5	23.37	22.43	21.76
		1732.5	23.19	22.43	21.70
		1712.5	23.31	22.84	21.79
	1 RB low	1752.5	23.33	22.41	21.66
		1732.5	23.23	22.41	21.63
		1712.5	23.34	22.89	21.69
	50% RB mid	1752.5	22.40	21.34	20.64
		1732.5	22.39	21.42	20.51
		1712.5	22.39	21.51	20.52
	100% RB	1752.5	22.32	21.23	20.51
		1732.5	22.34	21.32	20.50
		1712.5	22.36	21.42	20.52
10MHz	1 RB high	1750.0	23.41	22.14	21.76
		1732.5	23.24	22.69	21.51
		1715.0	23.37	22.37	21.70
	1 RB low	1750.0	23.40	22.20	21.77

		1732.5	23.28	22.77	21.54
		1715.0	23.39	22.37	21.97
	50% RB mid	1750.0	22.49	21.32	20.61
		1732.5	22.45	21.45	20.57
		1715.0	22.44	21.49	20.50
	100% RB	1750.0	22.38	21.29	20.60
		1732.5	22.45	21.41	20.39
		1715.0	22.46	21.46	20.56
15MHz	1 RB high	1747.5	23.09	22.70	21.60
		1732.5	23.06	22.13	21.78
		1717.5	23.01	22.40	21.82
	1 RB low	1747.5	23.10	22.70	21.80
		1732.5	23.10	22.13	21.28
		1717.5	23.09	22.41	21.77
	50% RB mid	1747.5	22.13	21.13	20.44
		1732.5	22.13	21.23	20.38
		1717.5	22.17	21.50	20.47
	100% RB	1747.5	22.12	21.14	20.33
		1732.5	22.14	21.19	20.40
		1717.5	22.16	21.46	20.41
20MHz	1 RB high	1745.0	23.14	22.63	21.38
		1732.5	23.15	22.57	21.49
		1720.0	23.17	22.51	21.50
	1 RB low	1745.0	23.15	22.74	21.65
		1732.5	23.09	22.59	21.83
		1720.0	23.15	22.56	21.64
	50% RB mid	1745.0	22.29	21.28	20.53
		1732.5	22.25	21.26	20.38
		1720.0	22.31	21.18	20.51
	100% RB	1745.0	22.16	21.16	20.25
		1732.5	22.25	21.24	20.30
		1720.0	22.29	21.14	20.39

LTE Band 4-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1754.3	22.50	21.67	20.42
		1732.5	22.39	21.60	20.65
		1710.7	22.50	21.85	20.63
	1 RB low	1754.3	22.42	21.58	20.64
		1732.5	22.38	21.59	20.67
		1710.7	22.62	21.86	20.75
	50% RB mid	1754.3	22.52	21.48	20.59
		1732.5	22.46	21.55	20.64
		1710.7	22.56	21.73	20.66
	100% RB	1754.3	21.58	20.51	19.89
		1732.5	21.57	20.58	19.50
		1710.7	21.66	20.71	19.59
3MHz	1 RB high	1753.5	22.62	21.66	20.68
		1732.5	22.52	21.88	20.70
		1711.5	22.56	21.99	20.75
	1 RB low	1753.5	22.54	21.78	20.58
		1732.5	22.60	21.95	20.59
		1711.5	22.56	21.88	20.74
	50% RB mid	1753.5	21.56	20.66	19.62
		1732.5	21.60	20.76	19.53
		1711.5	21.66	20.78	19.68
	100% RB	1753.5	21.62	20.58	19.50
		1732.5	21.70	20.62	19.62
		1711.5	21.74	20.70	19.65
5MHz	1 RB high	1752.5	22.53	21.73	20.65
		1732.5	22.53	21.90	20.65
		1712.5	22.61	22.02	20.79
	1 RB low	1752.5	22.57	21.78	20.66
		1732.5	22.62	21.87	20.51
		1712.5	22.64	21.92	20.74
	50% RB mid	1752.5	21.63	20.65	19.42
		1732.5	21.68	20.69	19.60
		1712.5	21.78	20.75	19.62
	100% RB	1752.5	21.63	20.60	19.49
		1732.5	21.62	20.65	19.60
		1712.5	21.70	20.77	19.60
10MHz	1 RB high	1750.0	22.39	21.85	20.54
		1732.5	22.41	21.88	20.60
		1715.0	22.54	21.82	20.82
	1 RB low	1750.0	22.32	21.73	20.63

		1732.5	22.46	21.78	20.49
		1715.0	22.54	21.80	20.52
	50% RB mid	1750.0	21.51	20.52	19.47
		1732.5	21.63	20.70	19.49
		1715.0	21.67	20.71	19.57
	100% RB	1750.0	21.54	20.54	19.48
		1732.5	21.63	20.73	19.56
		1715.0	21.70	20.76	19.64
15MHz	1 RB high	1747.5	22.27	21.70	20.45
		1732.5	22.28	21.61	20.73
		1717.5	22.26	21.84	20.43
	1 RB low	1747.5	22.45	21.66	20.60
		1732.5	22.39	21.84	20.68
		1717.5	22.43	21.72	20.84
	50% RB mid	1747.5	21.40	20.33	19.39
		1732.5	21.53	20.53	19.60
		1717.5	21.61	20.62	19.60
	100% RB	1747.5	21.40	20.41	19.31
		1732.5	21.52	20.42	19.49
		1717.5	21.51	20.50	19.58
20MHz	1 RB high	1745.0	22.50	21.68	20.58
		1732.5	22.44	21.89	20.69
		1720.0	22.52	21.89	20.80
	1 RB low	1745.0	22.61	21.86	20.88
		1732.5	22.60	21.89	20.69
		1720.0	22.59	21.79	20.78
	50% RB mid	1745.0	21.74	20.71	19.73
		1732.5	21.66	20.67	19.68
		1720.0	21.62	20.65	19.75
	100% RB	1745.0	21.55	20.45	19.56
		1732.5	21.62	20.60	19.65
		1720.0	21.71	20.65	19.66

LTE Band 7-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	24.10	23.41	22.42
		2535.0	24.13	23.55	22.49
		2502.5	23.90	23.35	22.17
	1 RB low	2567.5	24.09	23.39	22.29
		2535.0	24.21	23.38	22.37
		2502.5	24.04	23.19	22.22
	50% RB mid	2567.5	23.10	22.16	21.09
		2535.0	23.20	22.17	21.26
		2502.5	23.01	22.03	21.09
	100% RB	2567.5	23.11	22.11	21.16
		2535.0	23.10	22.20	21.15
		2502.5	23.04	22.13	21.00
10MHz	1 RB high	2565.0	24.33	23.38	22.39
		2535.0	24.14	23.50	22.60
		2505.0	23.95	23.40	22.18
	1 RB low	2565.0	24.08	23.37	22.31
		2535.0	24.07	23.46	22.24
		2505.0	23.86	23.31	22.12
	50% RB mid	2565.0	23.21	22.18	21.16
		2535.0	23.25	22.22	21.19
		2505.0	22.99	22.08	21.10
	100% RB	2565.0	23.13	22.19	21.21
		2535.0	23.11	22.17	21.12
		2505.0	23.01	22.03	21.10
15MHz	1 RB high	2562.5	23.88	23.16	21.81
		2535.0	23.89	23.33	22.14
		2507.5	23.77	22.99	22.20
	1 RB low	2562.5	23.94	23.36	22.06
		2535.0	23.87	23.10	22.09
		2507.5	23.67	23.04	21.90
	50% RB mid	2562.5	23.04	22.09	21.10
		2535.0	23.02	21.99	21.09
		2507.5	22.92	21.93	20.95
	100% RB	2562.5	23.07	22.16	21.19
		2535.0	23.12	22.09	21.03
		2507.5	22.84	21.95	20.89
20MHz	1 RB high	2560.0	23.82	22.88	22.03
		2535.0	23.94	23.13	22.03
		2510.0	23.76	22.73	22.03
	1 RB low	2560.0	23.88	23.16	21.91

		2535.0	23.80	22.90	22.05
		2510.0	23.67	22.86	21.82
	50% RB mid	2560.0	22.99	21.99	21.03
		2535.0	23.03	22.00	21.01
		2510.0	22.86	21.92	20.92
	100% RB	2560.0	22.98	22.05	21.08
		2535.0	23.01	22.06	21.13
		2510.0	22.97	21.96	20.93

LTE Band 7-ANT9

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	21.81	21.31	19.96
		2535.0	22.08	21.48	20.48
		2502.5	21.72	21.15	20.03
	1 RB low	2567.5	21.98	21.19	20.15
		2535.0	22.03	21.33	20.19
		2502.5	21.78	21.03	19.92
	50% RB mid	2567.5	21.04	20.00	19.09
		2535.0	21.00	20.15	18.99
		2502.5	20.78	19.89	18.88
	100% RB	2567.5	20.84	20.04	18.99
		2535.0	21.02	20.07	19.07
		2502.5	20.73	19.83	18.92
10MHz	1 RB high	2565.0	21.87	21.27	20.46
		2535.0	21.92	21.44	20.39
		2505.0	21.79	21.03	19.94
	1 RB low	2565.0	21.84	21.31	20.29
		2535.0	22.14	21.29	20.18
		2505.0	21.70	21.02	20.13
	50% RB mid	2565.0	20.94	20.01	19.04
		2535.0	21.06	20.09	19.13
		2505.0	20.84	19.81	18.85
	100% RB	2565.0	21.02	19.95	19.08
		2535.0	20.98	20.12	19.13
		2505.0	20.82	19.82	18.95
15MHz	1 RB high	2562.5	21.66	21.05	19.82
		2535.0	21.75	21.20	20.17
		2507.5	21.51	20.98	20.12
	1 RB low	2562.5	21.71	21.01	20.34
		2535.0	21.78	21.11	20.33
		2507.5	21.45	20.73	19.93
	50% RB mid	2562.5	20.84	19.80	18.99
		2535.0	20.87	19.93	19.02
		2507.5	20.68	19.67	18.85
	100% RB	2562.5	20.89	19.84	18.86
		2535.0	20.83	19.96	18.87
		2507.5	20.74	19.72	18.71
20MHz	1 RB high	2560.0	21.83	20.91	20.33
		2535.0	21.80	21.03	20.31
		2510.0	21.62	20.90	20.10
	1 RB low	2560.0	21.82	21.11	20.48

		2535.0	21.79	20.91	19.89
		2510.0	21.47	20.70	19.97
	50% RB mid	2560.0	20.78	19.84	19.15
		2535.0	20.93	19.90	19.07
		2510.0	20.78	19.70	18.86
	100% RB	2560.0	20.75	19.92	19.07
		2535.0	20.97	19.88	19.00
		2510.0	20.74	19.79	18.98

LTE Band 7-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	22.47	21.72	20.87
		2535.0	22.42	21.67	20.72
		2502.5	21.93	21.09	20.07
	1 RB low	2567.5	22.51	21.69	20.59
		2535.0	22.35	21.48	20.45
		2502.5	21.97	21.12	20.03
	50% RB mid	2567.5	21.65	20.47	19.56
		2535.0	21.35	20.22	19.29
		2502.5	21.09	20.16	19.11
	100% RB	2567.5	21.65	20.48	19.65
		2535.0	21.44	20.05	19.39
		2502.5	21.12	20.41	19.15
10MHz	1 RB high	2565.0	22.50	21.57	20.78
		2535.0	22.39	21.81	20.55
		2505.0	21.85	21.45	20.32
	1 RB low	2565.0	22.50	21.92	20.91
		2535.0	22.31	21.57	20.30
		2505.0	21.94	21.28	20.12
	50% RB mid	2565.0	21.63	20.40	19.75
		2535.0	21.44	20.17	19.36
		2505.0	21.00	20.26	18.98
	100% RB	2565.0	21.65	20.46	19.59
		2535.0	21.39	20.29	19.51
		2505.0	21.05	20.06	18.97
15MHz	1 RB high	2562.5	22.25	21.37	20.54
		2535.0	22.15	21.43	20.51
		2507.5	21.74	21.11	20.05
	1 RB low	2562.5	22.38	21.67	20.74
		2535.0	21.94	21.27	20.29
		2507.5	21.73	21.03	19.85
	50% RB mid	2562.5	21.49	20.49	19.54
		2535.0	21.26	20.17	19.18
		2507.5	20.86	20.09	18.96
	100% RB	2562.5	21.53	20.53	19.55
		2535.0	21.21	20.17	19.29
		2507.5	20.89	20.17	19.25
20MHz	1 RB high	2560.0	22.18	21.41	20.61
		2535.0	22.12	21.48	20.23
		2510.0	22.18	21.47	20.61
	1 RB low	2560.0	22.19	21.43	20.36

		2535.0	22.18	21.35	20.33
		2510.0	22.42	21.74	20.63
	50% RB mid	2560.0	21.44	20.37	19.25
		2535.0	21.28	20.26	19.31
		2510.0	21.53	20.52	19.55
	100% RB	2560.0	21.42	20.43	19.47
		2535.0	21.37	20.24	19.18
		2510.0	21.60	20.60	19.58

LTE Band 7-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	21.37	20.69	19.56
		2535.0	21.42	20.69	19.61
		2502.5	21.38	20.67	19.65
	1 RB low	2567.5	21.35	20.69	19.72
		2535.0	21.32	20.61	19.57
		2502.5	21.57	20.67	19.74
	50% RB mid	2567.5	20.54	19.47	18.53
		2535.0	20.28	19.39	18.44
		2502.5	20.61	19.61	18.50
	100% RB	2567.5	20.35	19.42	18.32
		2535.0	20.42	19.38	18.37
		2502.5	20.52	19.50	18.60
10MHz	1 RB high	2565.0	21.50	20.57	19.65
		2535.0	21.35	20.67	19.84
		2505.0	21.32	20.74	19.76
	1 RB low	2565.0	21.23	20.67	19.71
		2535.0	21.46	20.43	19.55
		2505.0	21.45	20.55	19.77
	50% RB mid	2565.0	20.25	19.46	18.66
		2535.0	20.41	19.48	18.57
		2505.0	20.54	19.58	18.76
	100% RB	2565.0	20.36	19.29	18.52
		2535.0	20.35	19.41	18.61
		2505.0	20.47	19.53	18.74
15MHz	1 RB high	2562.5	21.15	20.45	19.18
		2535.0	21.08	20.54	19.62
		2507.5	21.18	20.66	19.62
	1 RB low	2562.5	21.16	20.53	19.61
		2535.0	21.14	20.48	19.54
		2507.5	21.26	20.47	19.43
	50% RB mid	2562.5	20.24	19.29	18.42
		2535.0	20.25	19.25	18.38
		2507.5	20.41	19.39	18.56
	100% RB	2562.5	20.22	19.20	18.44
		2535.0	20.22	19.22	18.47
		2507.5	20.35	19.35	18.55
20MHz	1 RB high	2560.0	21.07	20.38	19.77
		2535.0	21.10	20.38	19.24
		2510.0	21.14	20.62	19.53
	1 RB low	2560.0	21.11	20.47	19.32

		2535.0	21.11	20.47	19.53
		2510.0	21.22	20.22	19.82
	50% RB mid	2560.0	20.24	19.23	18.26
		2535.0	20.26	19.22	18.28
		2510.0	20.34	19.37	18.44
	100% RB	2560.0	20.17	19.17	18.26
		2535.0	20.25	19.20	18.37
		2510.0	20.35	19.37	18.39

LTE Band 12-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	24.11	23.65	22.39
		707.5	24.17	23.13	22.63
		699.7	24.12	23.36	22.70
	1 RB low	715.3	24.14	23.64	22.96
		707.5	24.14	23.20	22.64
		699.7	24.09	23.33	22.76
	50% RB mid	715.3	23.98	23.47	22.43
		707.5	24.23	23.34	22.64
		699.7	24.21	23.30	22.52
	100% RB	715.3	23.13	22.02	21.34
		707.5	23.13	22.30	21.50
		699.7	23.19	22.38	21.39
3MHz	1 RB high	714.5	24.16	23.16	22.42
		707.5	24.11	23.05	22.45
		700.5	24.28	23.20	22.42
	1 RB low	714.5	24.29	23.44	22.34
		707.5	24.22	23.20	22.15
		700.5	24.33	23.23	21.86
	50% RB mid	714.5	23.39	22.29	21.22
		707.5	23.28	22.47	21.38
		700.5	23.35	22.47	21.46
	100% RB	714.5	23.18	22.15	21.38
		707.5	23.29	22.32	21.41
		700.5	23.28	22.40	21.51
5MHz	1 RB high	713.5	24.34	23.39	22.78
		707.5	24.20	23.52	22.64
		701.5	24.18	23.88	22.80
	1 RB low	713.5	24.44	23.48	22.93
		707.5	24.23	23.40	22.96
		701.5	24.35	23.72	22.95
	50% RB mid	713.5	23.28	22.29	21.73
		707.5	23.27	22.36	21.67
		701.5	23.33	22.47	21.72
	100% RB	713.5	23.28	22.16	21.44
		707.5	23.26	22.18	21.55
		701.5	23.28	22.37	21.73
10MHz	1 RB high	711.0	24.47	23.53	22.72
		707.5	24.27	23.60	22.82
		704.0	24.31	23.30	22.89
	1 RB low	711.0	24.29	23.05	22.12

		707.5	24.26	23.52	22.57
		704.0	24.44	23.32	22.56
	50% RB mid	711.0	23.62	22.42	21.57
		707.5	23.53	22.60	21.79
		704.0	23.60	22.54	21.94
	100% RB	711.0	23.43	22.46	21.46
		707.5	23.30	22.59	21.68
		704.0	23.58	22.52	21.69

LTE Band 12-ANT2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.65	22.55	21.11
		707.5	23.55	22.92	22.97
		699.7	23.65	22.89	23.00
	1 RB low	715.3	23.63	22.41	21.50
		707.5	23.61	22.86	22.81
		699.7	23.63	22.95	22.94
	50% RB mid	715.3	23.54	22.34	21.94
		707.5	23.62	22.73	22.65
		699.7	23.76	22.18	22.76
	100% RB	715.3	22.47	21.53	21.37
		707.5	22.69	21.73	21.74
		699.7	22.70	21.80	21.87
3MHz	1 RB high	714.5	23.82	22.88	22.67
		707.5	23.66	22.96	22.88
		700.5	23.35	22.93	22.94
	1 RB low	714.5	23.75	22.87	22.44
		707.5	23.68	22.94	22.80
		700.5	23.43	23.02	22.69
	50% RB mid	714.5	22.72	21.77	21.53
		707.5	22.76	21.75	21.78
		700.5	22.77	21.93	21.88
	100% RB	714.5	22.71	21.56	21.43
		707.5	22.72	21.84	21.74
		700.5	22.81	21.86	21.85
5MHz	1 RB high	713.5	23.72	22.76	22.86
		707.5	23.38	22.97	21.90
		701.5	23.49	22.21	21.66
	1 RB low	713.5	23.68	22.86	22.49
		707.5	23.47	23.04	22.15
		701.5	23.75	22.74	21.35
	50% RB mid	713.5	22.67	21.76	21.68
		707.5	22.76	21.54	21.69
		701.5	22.53	21.35	21.86
	100% RB	713.5	22.62	21.55	21.55
		707.5	22.44	21.78	21.73
		701.5	22.80	21.38	21.15
10MHz	1 RB high	711.0	23.23	22.73	21.59
		707.5	23.26	22.65	21.50
		704.0	23.28	22.67	21.61
	1 RB low	711.0	23.30	22.82	21.58

		707.5	23.32	22.80	21.67
		704.0	23.45	22.76	21.80
	50% RB mid	711.0	22.34	21.41	20.44
		707.5	22.31	21.46	20.41
		704.0	22.45	21.60	20.60
	100% RB	711.0	22.41	21.28	20.44
		707.5	22.36	21.42	20.42
		704.0	22.41	21.54	20.56

LTE Band 26(814MHz~824MHz)-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.89	23.00	21.95
		819.0	23.89	23.09	22.00
		814.7	24.02	23.07	22.05
	1 RB low	823.3	23.84	22.96	21.99
		819.0	23.88	23.09	22.05
		814.7	24.00	23.05	22.03
	50% RB mid	823.3	23.91	23.06	21.96
		819.0	23.87	23.06	21.96
		814.7	23.88	23.16	22.02
	100% RB	823.3	22.92	21.74	20.71
		819.0	22.89	21.78	20.64
		814.7	22.88	22.04	20.86
3MHz	1 RB high	822.5	23.93	22.97	22.03
		819.0	23.90	23.02	22.07
		815.5	23.91	22.96	22.03
	1 RB low	822.5	23.88	22.99	22.02
		819.0	23.87	22.98	21.98
		815.5	23.98	23.05	22.15
	50% RB mid	822.5	22.93	21.99	21.01
		819.0	22.90	21.98	21.03
		815.5	22.94	22.00	21.09
	100% RB	822.5	22.88	22.01	20.92
		819.0	22.91	21.95	20.96
		815.5	22.88	21.94	21.11
5MHz	1 RB high	821.5	23.82	23.16	21.94
		819.0	23.80	23.15	21.96
		816.5	23.79	23.04	21.89
	1 RB low	821.5	23.78	23.13	21.93
		819.0	23.81	23.13	21.92
		816.5	23.86	23.17	22.02
	50% RB mid	821.5	22.95	22.05	20.86
		819.0	22.90	22.04	20.88
		816.5	22.85	21.99	20.84
	100% RB	821.5	22.90	21.91	20.85
		819.0	22.88	21.92	20.88
		816.5	22.87	21.91	20.82
10MHz	1 RB high	819.0	23.71	22.92	21.93
	1 RB low	819.0	23.78	22.88	21.92
	50% RB mid	819.0	22.87	21.91	20.89
	100% RB	819.0	22.85	21.91	20.85

LTE Band 26(814MHz~824MHz)-ANT2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.52	22.65	22.31
		819.0	23.51	22.67	22.35
		814.7	23.06	22.62	22.33
	1 RB low	823.3	23.47	22.57	22.29
		819.0	23.48	22.59	22.28
		814.7	23.02	22.58	22.31
	50% RB mid	823.3	23.52	22.76	22.31
		819.0	23.52	22.74	22.29
		814.7	23.54	22.80	22.32
	100% RB	823.3	22.55	21.68	21.04
		819.0	22.56	21.69	21.13
		814.7	22.55	21.70	21.14
3MHz	1 RB high	822.5	23.62	22.66	22.34
		819.0	23.56	22.74	22.37
		815.5	23.52	22.65	22.34
	1 RB low	822.5	23.58	22.64	22.36
		819.0	23.58	22.71	22.36
		815.5	23.66	22.71	22.37
	50% RB mid	822.5	22.65	21.71	21.26
		819.0	22.62	21.71	21.34
		815.5	22.65	21.67	21.25
	100% RB	822.5	22.59	21.71	21.24
		819.0	22.61	21.65	21.26
		815.5	22.60	21.57	21.17
5MHz	1 RB high	821.5	23.56	22.72	22.34
		819.0	23.53	22.84	22.38
		816.5	23.47	22.63	22.24
	1 RB low	821.5	23.57	22.62	22.28
		819.0	23.54	22.86	22.35
		816.5	23.62	22.69	22.33
	50% RB mid	821.5	22.68	21.66	21.23
		819.0	22.64	21.68	21.32
		816.5	22.59	21.69	21.25
	100% RB	821.5	22.59	21.51	21.24
		819.0	22.61	21.54	21.25
		816.5	22.54	21.56	21.21
10MHz	1 RB high	819.0	23.47	22.57	22.26
	1 RB low	819.0	23.51	22.57	22.32
	50% RB mid	819.0	22.62	21.73	21.19
	100% RB	819.0	22.59	21.62	21.17

LTE Band 26(824MHz~849MHz)-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.71	22.84	21.76
		836.5	23.95	23.16	22.06
		824.7	23.71	23.26	22.24
	1 RB low	848.3	23.74	22.87	21.77
		836.5	23.98	23.11	22.01
		824.7	23.65	23.24	22.15
	50% RB mid	848.3	23.67	22.93	21.64
		836.5	23.88	23.15	21.86
		824.7	24.10	23.31	22.12
	100% RB	848.3	22.73	21.82	20.56
		836.5	22.88	22.13	20.82
		824.7	23.02	21.96	21.09
3MHz	1 RB high	847.5	23.73	22.76	21.79
		836.5	23.97	23.01	21.99
		825.5	24.01	23.08	22.07
	1 RB low	847.5	23.74	22.83	21.83
		836.5	23.97	23.09	22.02
		825.5	24.03	23.07	22.05
	50% RB mid	847.5	22.75	21.82	20.64
		836.5	22.95	22.00	20.82
		825.5	23.05	22.15	21.01
	100% RB	847.5	22.74	21.78	20.62
		836.5	22.91	21.95	20.86
		825.5	23.02	22.05	21.06
5MHz	1 RB high	846.5	23.61	22.74	21.74
		836.5	23.81	23.12	21.88
		826.5	23.96	23.08	21.95
	1 RB low	846.5	23.67	22.86	21.83
		836.5	23.76	23.18	22.02
		826.5	23.96	23.09	22.03
	50% RB mid	846.5	22.74	21.87	20.69
		836.5	22.89	22.07	20.88
		826.5	22.93	22.06	20.86
	100% RB	846.5	22.71	21.75	20.68
		836.5	22.87	21.92	20.79
		826.5	22.88	21.91	20.88
10MHz	1 RB high	844.0	23.68	22.77	21.72
		836.5	23.77	22.94	21.83
		829.0	24.00	23.08	21.93
	1 RB low	844.0	23.82	22.82	21.85

		836.5	23.88	23.10	22.02
		829.0	24.02	23.08	22.01
	50% RB mid	844.0	22.76	21.91	20.74
		836.5	22.91	21.98	20.89
		829.0	22.94	21.98	20.86
	100% RB	844.0	22.72	21.79	20.67
		836.5	22.90	21.92	20.79
		829.0	22.88	21.89	20.93
15MHz	1 RB high	841.5	23.63	23.25	21.59
		836.5	23.47	22.95	21.62
		831.5	23.59	23.07	21.74
	1 RB low	841.5	23.84	23.48	21.81
		836.5	23.66	23.12	21.83
		831.5	23.75	23.19	21.86
	50% RB mid	841.5	22.74	21.78	20.60
		836.5	22.81	21.85	20.66
		831.5	22.88	21.94	20.72
	100% RB	841.5	22.76	21.77	20.61
		836.5	22.67	21.75	20.59
		831.5	22.84	21.88	20.74

LTE Band 26(824MHz~849MHz)-ANT2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.29	22.43	22.05
		836.5	23.52	22.71	22.39
		824.7	23.76	22.89	22.35
	1 RB low	848.3	23.31	22.45	22.07
		836.5	23.51	22.65	22.34
		824.7	23.69	22.81	22.36
	50% RB mid	848.3	23.24	22.54	22.11
		836.5	23.48	22.75	22.36
		824.7	23.64	22.89	22.40
	100% RB	848.3	22.26	21.49	21.12
		836.5	22.50	21.67	21.17
		824.7	22.63	21.85	21.24
3MHz	1 RB high	847.5	23.33	22.40	22.13
		836.5	23.51	22.62	22.34
		825.5	23.66	22.71	22.36
	1 RB low	847.5	23.42	22.44	22.14
		836.5	23.56	22.68	22.32
		825.5	23.65	22.73	22.37
	50% RB mid	847.5	22.41	21.49	21.06
		836.5	22.59	21.66	21.29
		825.5	22.72	21.73	21.37
	100% RB	847.5	22.38	21.43	20.97
		836.5	22.58	21.63	21.25
		825.5	22.68	21.67	21.35
5MHz	1 RB high	846.5	23.33	22.43	22.12
		836.5	23.50	22.65	22.33
		826.5	23.64	22.78	22.36
	1 RB low	846.5	23.37	22.48	22.16
		836.5	23.55	22.66	22.34
		826.5	23.60	22.73	22.35
	50% RB mid	846.5	22.42	21.56	21.07
		836.5	22.59	21.75	21.25
		826.5	22.59	21.76	21.28
	100% RB	846.5	22.36	21.43	21.05
		836.5	22.54	21.59	21.19
		826.5	22.57	21.59	21.24
10MHz	1 RB high	844.0	23.31	22.46	21.95
		836.5	23.35	22.60	22.08
		829.0	23.53	22.67	22.26
	1 RB low	844.0	23.44	22.66	22.17

		836.5	23.49	22.65	22.22
		829.0	23.63	22.82	22.32
	50% RB mid	844.0	22.44	21.49	20.94
		836.5	22.56	21.61	21.02
		829.0	22.56	21.63	21.14
	100% RB	844.0	22.42	21.46	20.98
		836.5	22.54	21.56	21.02
		829.0	22.56	21.59	21.09
15MHz	1 RB high	841.5	23.13	22.58	21.83
		836.5	23.09	22.39	21.87
		831.5	23.25	22.48	21.97
	1 RB low	841.5	23.30	22.78	22.05
		836.5	23.30	22.59	22.02
		831.5	23.35	22.68	22.12
	50% RB mid	841.5	22.33	21.36	20.81
		836.5	22.35	21.41	20.85
		831.5	22.37	21.46	20.96
	100% RB	841.5	22.32	21.36	20.84
		836.5	22.30	21.31	20.81
		831.5	22.34	21.40	20.94

LTE Band 38-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2617.5	24.68	23.33	22.18
		2595.0	24.42	23.48	22.24
		2572.5	24.35	23.47	22.33
	1 RB low	2617.5	24.62	23.35	22.24
		2595.0	24.41	23.29	22.49
		2572.5	24.30	23.36	22.38
	50% RB mid	2617.5	23.62	22.50	21.60
		2595.0	23.41	22.37	21.55
		2572.5	23.45	22.37	21.67
	100% RB	2617.5	23.48	22.43	21.60
		2595.0	23.36	22.34	21.57
		2572.5	23.39	22.37	21.67
10MHz	1 RB high	2615.0	24.53	23.56	22.28
		2595.0	24.44	23.43	22.23
		2575.0	24.35	23.45	22.32
	1 RB low	2615.0	24.52	23.54	22.31
		2595.0	24.43	23.36	22.30
		2575.0	24.34	23.46	22.30
	50% RB mid	2615.0	23.50	22.47	21.66
		2595.0	23.44	22.44	21.68
		2575.0	23.41	22.49	21.77
	100% RB	2615.0	23.48	22.50	21.54
		2595.0	23.40	22.39	21.57
		2575.0	23.45	22.47	21.67
15MHz	1 RB high	2612.5	24.64	23.51	22.08
		2595.0	24.49	23.43	22.11
		2577.5	24.46	23.33	22.12
	1 RB low	2612.5	24.63	23.51	22.17
		2595.0	24.47	23.35	22.13
		2577.5	24.42	23.29	22.12
	50% RB mid	2612.5	23.57	22.40	21.49
		2595.0	23.46	22.45	21.47
		2577.5	23.49	22.42	21.54
	100% RB	2612.5	23.49	22.39	21.42
		2595.0	23.44	22.36	21.41
		2577.5	23.41	22.38	21.51
20MHz	1 RB high	2610.0	24.19	23.53	22.01
		2595.0	24.26	23.72	22.04
		2580.0	24.22	23.55	22.09
	1 RB low	2610.0	24.20	23.42	22.09

		2595.0	24.23	23.66	22.13
		2580.0	24.08	23.49	22.14
	50% RB mid	2610.0	23.26	22.27	21.44
		2595.0	23.19	22.26	21.41
		2580.0	23.25	22.23	21.55
	100% RB	2610.0	23.19	22.18	21.39
		2595.0	23.11	22.18	21.41
		2580.0	23.21	22.20	21.52

LTE Band 38-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2617.5	23.59	22.51	22.51
		2595.0	23.42	22.57	22.45
		2572.5	23.44	22.56	22.49
	1 RB low	2617.5	23.55	22.42	22.50
		2595.0	23.42	22.43	22.47
		2572.5	23.49	22.51	22.51
	50% RB mid	2617.5	22.52	21.34	21.43
		2595.0	22.36	21.32	21.33
		2572.5	22.48	21.43	21.46
	100% RB	2617.5	22.53	21.45	21.37
		2595.0	22.35	21.39	21.27
		2572.5	22.46	21.45	21.47
10MHz	1 RB high	2615.0	23.50	22.44	22.30
		2595.0	23.35	22.36	22.30
		2575.0	23.31	22.39	22.29
	1 RB low	2615.0	23.49	22.48	22.28
		2595.0	23.45	22.50	22.38
		2575.0	23.45	22.58	22.46
	50% RB mid	2615.0	22.40	21.39	21.31
		2595.0	22.36	21.36	21.34
		2575.0	22.46	21.54	21.29
	100% RB	2615.0	22.41	21.44	21.34
		2595.0	22.37	21.43	21.40
		2575.0	22.47	21.53	21.57
15MHz	1 RB high	2612.5	23.32	22.30	22.20
		2595.0	23.23	22.31	22.14
		2577.5	23.20	22.37	22.16
	1 RB low	2612.5	23.34	22.33	22.28
		2595.0	23.31	22.44	22.20
		2577.5	23.30	22.53	22.39
	50% RB mid	2612.5	22.20	21.22	21.24
		2595.0	22.25	21.27	21.28
		2577.5	22.33	21.31	21.20
	100% RB	2612.5	22.20	21.26	21.30
		2595.0	22.21	21.28	21.26
		2577.5	22.35	21.37	21.43
20MHz	1 RB high	2610.0	22.87	21.86	21.85
		2595.0	22.75	21.81	21.77
		2580.0	22.74	21.84	21.69
	1 RB low	2610.0	22.85	21.97	21.82

		2595.0	22.86	21.96	21.76
		2580.0	22.73	21.99	21.84
	50% RB mid	2610.0	21.81	20.82	20.72
		2595.0	21.74	20.75	20.71
		2580.0	21.82	20.84	20.83
	100% RB	2610.0	21.84	20.78	20.81
		2595.0	21.72	20.78	20.84
		2580.0	21.81	20.82	20.84

LTE Band 41-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	24.57	23.61	23.43
		2593.0	24.37	23.44	22.09
		2498.5	24.50	23.57	22.18
	1 RB low	2687.5	24.56	23.59	23.55
		2593.0	24.43	23.51	22.05
		2498.5	24.53	23.61	22.12
	50% RB mid	2687.5	23.62	22.51	22.55
		2593.0	23.45	22.42	21.60
		2498.5	23.56	22.57	21.64
	100% RB	2687.5	23.55	22.55	22.49
		2593.0	23.46	22.51	21.61
		2498.5	23.52	22.52	21.60
10MHz	1 RB high	2685.0	24.07	23.08	22.15
		2593.0	23.79	22.91	21.91
		2501.0	23.92	23.03	22.35
	1 RB low	2685.0	24.17	23.16	22.12
		2593.0	23.80	22.96	22.02
		2501.0	23.92	23.09	22.33
	50% RB mid	2685.0	23.43	22.42	21.72
		2593.0	23.27	22.24	21.67
		2501.0	23.08	22.09	21.72
	100% RB	2685.0	23.32	22.31	21.53
		2593.0	23.15	22.15	21.55
		2501.0	23.03	22.07	21.70
15MHz	1 RB high	2682.5	24.24	23.28	22.20
		2593.0	23.85	23.01	21.91
		2503.5	23.78	22.92	22.03
	1 RB low	2682.5	24.11	23.09	21.99
		2593.0	23.79	22.92	21.87
		2503.5	23.83	22.92	22.03
	50% RB mid	2682.5	23.37	22.28	21.55
		2593.0	23.12	22.10	21.47
		2503.5	22.94	21.95	21.47
	100% RB	2682.5	23.23	22.27	21.50
		2593.0	23.09	22.12	21.45
		2503.5	22.94	22.00	21.55
20MHz	1 RB high	2680.0	24.59	23.14	23.24
		2593.0	24.12	22.97	22.88
		2506.0	24.30	22.79	23.19
	1 RB low	2680.0	24.33	22.98	22.96

		2593.0	24.10	22.82	22.92
		2506.0	24.43	22.85	23.34
	50% RB mid	2680.0	23.29	22.27	22.56
		2593.0	22.97	22.02	22.43
		2506.0	22.80	21.88	22.47
	100% RB	2680.0	23.17	22.16	22.53
		2593.0	22.90	21.94	22.43
		2506.0	22.86	21.88	22.57

LTE Band 41-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	23.04	22.02	21.96
		2593.0	23.00	22.21	21.98
		2498.5	23.15	22.33	20.99
	1 RB low	2687.5	22.96	22.10	21.93
		2593.0	23.08	22.25	22.01
		2498.5	23.11	22.28	20.84
	50% RB mid	2687.5	22.06	21.04	21.05
		2593.0	22.18	21.22	21.21
		2498.5	22.20	21.19	20.34
	100% RB	2687.5	22.03	21.05	20.96
		2593.0	22.20	21.24	21.19
		2498.5	22.16	21.28	20.29
10MHz	1 RB high	2685.0	22.77	21.86	21.70
		2593.0	22.90	21.98	21.72
		2501.0	23.12	22.26	22.07
	1 RB low	2685.0	22.87	21.89	21.75
		2593.0	22.86	22.05	21.75
		2501.0	23.13	22.26	22.10
	50% RB mid	2685.0	22.15	21.12	21.08
		2593.0	22.28	21.31	21.21
		2501.0	22.26	21.25	21.26
	100% RB	2685.0	22.05	21.10	20.94
		2593.0	22.20	21.22	21.15
		2501.0	22.23	21.32	21.20
15MHz	1 RB high	2682.5	22.99	21.98	21.71
		2593.0	22.85	21.99	21.63
		2503.5	23.00	22.11	21.81
	1 RB low	2682.5	22.79	21.85	21.56
		2593.0	22.86	21.96	21.65
		2503.5	22.97	22.13	21.86
	50% RB mid	2682.5	22.07	20.99	20.99
		2593.0	22.17	21.16	21.11
		2503.5	22.10	21.12	21.08
	100% RB	2682.5	22.01	21.00	20.97
		2593.0	22.12	21.15	21.16
		2503.5	22.09	21.17	21.10
20MHz	1 RB high	2680.0	22.97	22.00	21.74
		2593.0	22.76	21.86	21.60
		2506.0	23.11	22.26	21.94
	1 RB low	2680.0	22.71	21.75	21.57

		2593.0	22.77	21.88	21.54
		2506.0	23.12	22.27	21.95
	50% RB mid	2680.0	22.13	21.11	21.04
		2593.0	22.23	21.19	21.21
		2506.0	22.22	21.27	21.21
	100% RB	2680.0	21.98	21.02	20.99
		2593.0	22.14	21.19	21.17
		2506.0	22.26	21.34	21.25

LTE Band 66-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.62	22.75	21.79
		1745.0	23.51	23.03	21.87
		1710.7	23.56	22.68	21.89
	1 RB low	1779.3	23.64	22.74	21.96
		1745.0	23.52	23.04	21.84
		1710.7	23.59	22.66	21.67
	50% RB mid	1779.3	23.58	22.68	21.94
		1745.0	23.63	22.85	21.89
		1710.7	23.68	22.94	21.91
	100% RB	1779.3	22.58	21.84	20.72
		1745.0	22.64	21.52	20.73
		1710.7	22.72	21.89	20.63
3MHz	1 RB high	1778.5	23.65	22.75	22.02
		1745.0	23.69	22.69	21.93
		1711.5	23.73	22.67	22.07
	1 RB low	1778.5	23.62	22.82	21.97
		1745.0	23.68	22.71	21.91
		1711.5	23.73	22.70	21.95
	50% RB mid	1778.5	22.77	21.79	20.83
		1745.0	22.74	21.81	20.97
		1711.5	22.78	21.89	20.92
	100% RB	1778.5	22.75	21.73	20.76
		1745.0	22.73	21.72	20.72
		1711.5	22.75	21.81	20.77
5MHz	1 RB high	1777.5	23.78	22.85	21.86
		1745.0	23.76	22.87	21.93
		1712.5	23.69	22.91	21.75
	1 RB low	1777.5	23.82	22.90	22.14
		1745.0	23.69	22.84	21.85
		1712.5	23.75	22.90	22.04
	50% RB mid	1777.5	22.78	21.81	20.94
		1745.0	22.74	21.84	20.95
		1712.5	22.82	21.88	20.94
	100% RB	1777.5	22.75	21.73	20.86
		1745.0	22.74	21.76	20.93
		1712.5	22.80	21.82	20.83
10MHz	1 RB high	1775.0	23.66	22.67	21.96
		1745.0	23.64	22.70	21.92
		1715.0	23.55	23.10	21.98
	1 RB low	1775.0	23.66	22.76	21.86

		1745.0	23.58	22.76	21.81
		1715.0	23.62	23.12	22.20
	50% RB mid	1775.0	22.74	21.84	20.96
		1745.0	22.76	21.86	20.92
		1715.0	22.82	21.89	20.64
	100% RB	1775.0	22.70	21.75	20.90
		1745.0	22.76	21.72	21.01
		1715.0	22.79	21.81	20.71
15MHz	1 RB high	1772.5	23.51	22.54	22.16
		1745.0	23.50	22.95	21.94
		1717.5	23.47	22.63	22.16
	1 RB low	1772.5	23.58	22.61	21.72
		1745.0	23.54	22.92	21.91
		1717.5	23.51	22.55	22.03
	50% RB mid	1772.5	22.70	21.71	20.80
		1745.0	22.64	21.74	20.78
		1717.5	22.68	21.68	20.77
	100% RB	1772.5	22.57	21.60	20.63
		1745.0	22.62	21.65	20.69
		1717.5	22.68	21.65	20.72
20MHz	1 RB high	1770.0	23.40	22.95	22.19
		1745.0	23.46	22.99	22.07
		1720.0	23.44	23.03	22.04
	1 RB low	1770.0	23.43	23.01	21.88
		1745.0	23.36	23.00	21.94
		1720.0	23.41	22.95	22.16
	50% RB mid	1770.0	22.56	21.57	20.90
		1745.0	22.55	21.47	20.78
		1720.0	22.55	21.50	20.82
	100% RB	1770.0	22.50	21.57	20.71
		1745.0	22.53	21.53	20.72
		1720.0	22.56	21.54	20.71

LTE Band 66-ANT6

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	22.52	21.93	21.52
		1745.0	22.71	22.01	20.99
		1710.7	22.79	22.23	21.12
	1 RB low	1779.3	22.56	21.94	21.70
		1745.0	22.68	22.04	21.04
		1710.7	22.85	22.20	20.70
	50% RB mid	1779.3	22.59	21.81	21.24
		1745.0	22.68	21.63	21.05
		1710.7	22.88	22.00	21.21
	100% RB	1779.3	21.64	20.74	19.85
		1745.0	21.84	21.03	19.90
		1710.7	21.81	21.01	20.11
3MHz	1 RB high	1778.5	22.61	21.91	21.36
		1745.0	22.86	22.29	21.57
		1711.5	22.85	22.16	21.67
	1 RB low	1778.5	22.62	22.07	21.34
		1745.0	22.76	22.14	21.46
		1711.5	22.77	22.18	21.63
	50% RB mid	1778.5	21.77	20.88	20.35
		1745.0	21.90	21.10	20.47
		1711.5	21.84	21.14	20.64
	100% RB	1778.5	21.82	20.95	20.32
		1745.0	21.88	20.97	20.35
		1711.5	21.90	21.07	20.46
5MHz	1 RB high	1777.5	22.79	22.67	21.16
		1745.0	22.74	22.26	21.34
		1712.5	22.85	22.33	21.41
	1 RB low	1777.5	22.73	22.62	21.25
		1745.0	22.73	22.09	21.24
		1712.5	22.83	22.32	21.30
	50% RB mid	1777.5	21.76	20.93	20.11
		1745.0	21.86	20.99	20.03
		1712.5	21.83	21.09	20.16
	100% RB	1777.5	21.84	20.87	20.04
		1745.0	21.84	20.88	20.10
		1712.5	21.90	20.99	20.25
10MHz	1 RB high	1775.0	22.55	22.04	21.25
		1745.0	22.67	22.31	21.33
		1715.0	22.74	22.27	21.44
	1 RB low	1775.0	22.68	22.14	21.02

		1745.0	22.76	22.49	21.26
		1715.0	22.90	22.20	21.14
	50% RB mid	1775.0	21.75	20.84	20.13
		1745.0	21.87	21.02	20.19
		1715.0	21.90	21.10	20.20
	100% RB	1775.0	21.70	20.92	19.96
		1745.0	21.87	21.02	20.22
		1715.0	21.81	21.06	20.25
15MHz	1 RB high	1772.5	22.60	21.96	20.89
		1745.0	22.64	22.05	21.06
		1717.5	22.64	22.09	21.23
	1 RB low	1772.5	22.59	22.10	21.07
		1745.0	22.57	22.18	21.07
		1717.5	22.76	22.16	20.98
	50% RB mid	1772.5	21.74	20.81	19.85
		1745.0	21.79	20.88	19.90
		1717.5	21.87	20.96	20.03
	100% RB	1772.5	21.64	20.75	19.78
		1745.0	21.75	20.85	19.75
		1717.5	21.88	21.00	19.93
20MHz	1 RB high	1770.0	22.59	21.71	20.76
		1745.0	22.68	21.90	20.74
		1720.0	22.60	21.84	20.71
	1 RB low	1770.0	22.65	21.87	20.82
		1745.0	22.69	21.90	20.80
		1720.0	22.66	21.85	20.89
	50% RB mid	1770.0	21.76	20.67	19.77
		1745.0	21.79	20.68	19.73
		1720.0	21.81	20.81	19.89
	100% RB	1770.0	21.72	20.75	19.74
		1745.0	21.73	20.79	19.79
		1720.0	21.85	20.86	19.85

LTE CA_band 7-ANT3

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2530.1	2542.1	QPSK	1	74	1	0	23.99
				75	0	50	0	22.01
			16QAM	1	74	1	0	23.47
				75	0	50	0	21.06
			64QAM	1	74	1	0	21.69
				75	0	50	0	21.02
10MHz/ 20MHz	2525.6	2540	QPSK	1	49	1	0	24.01
				50	0	100	0	22.03
			16QAM	1	49	1	0	23.49
				50	0	100	0	21.07
			64QAM	1	49	1	0	22.15
				50	0	100	0	21.04
20MHz/ 10MHz	2530.1	2544.5	QPSK	1	99	1	0	23.92
				100	0	50	0	21.97
			16QAM	1	99	1	0	23.46
				100	0	50	0	21.04
			64QAM	1	99	1	0	21.45
				100	0	50	0	20.97
15MHz/ 15MHz	2527.5	2542.5	QPSK	1	74	1	0	23.95
				75	0	75	0	22.05
			16QAM	1	74	1	0	23.37
				75	0	75	0	21.06
			64QAM	1	74	1	0	22.05
				75	0	75	0	21.04
15MHz/ 20MHz	2525.3	2542.4	QPSK	1	74	1	0	23.96
				75	0	100	0	22.04
			16QAM	1	74	1	0	23.45
				75	0	100	0	21.05
			64QAM	1	74	1	0	22.05
				75	0	100	0	21.03
20MHz/ 15MHz	2527.6	2544.7	QPSK	1	99	1	0	23.95
				100	0	75	0	22.02
			16QAM	1	99	1	0	23.46
				100	0	75	0	21.05
			64QAM	1	99	1	0	21.65
				100	0	75	0	21.04
20MHz/ 20MHz	2525.1	2544.9	QPSK	1	99	1	0	23.98
				100	0	100	0	22.03
			16QAM	1	99	1	0	23.52
				100	0	100	0	21.03

			64QAM	1	99	1	0	22.12
				100	0	100	0	21.00

LTE CA_band 7-ANT9

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2530.1	2542.1	QPSK	1	74	1	0	21.19
				75	0	50	0	19.32
			16QAM	1	74	1	0	20.61
				75	0	50	0	18.29
			64QAM	1	74	1	0	18.13
				75	0	50	0	18.25
10MHz/ 20MHz	2525.6	2540	QPSK	1	49	1	0	21.18
				50	0	100	0	19.32
			16QAM	1	49	1	0	20.59
				50	0	100	0	18.36
			64QAM	1	49	1	0	19.31
				50	0	100	0	18.35
20MHz/ 10MHz	2530.1	2544.5	QPSK	1	99	1	0	21.18
				100	0	50	0	19.31
			16QAM	1	99	1	0	20.58
				100	0	50	0	18.35
			64QAM	1	99	1	0	18.34
				100	0	50	0	18.31
15MHz/ 15MHz	2527.5	2542.5	QPSK	1	74	1	0	21.18
				75	0	75	0	19.35
			16QAM	1	74	1	0	20.59
				75	0	75	0	18.38
			64QAM	1	74	1	0	18.56
				75	0	75	0	18.36
15MHz/ 20MHz	2525.3	2542.4	QPSK	1	74	1	0	21.13
				75	0	100	0	19.39
			16QAM	1	74	1	0	20.77
				75	0	100	0	18.40
			64QAM	1	74	1	0	18.76
				75	0	100	0	18.34
20MHz/ 15MHz	2527.6	2544.7	QPSK	1	99	1	0	21.14
				100	0	75	0	19.27
			16QAM	1	99	1	0	20.62
				100	0	75	0	18.28
			64QAM	1	99	1	0	18.45
				100	0	75	0	18.26
20MHz/	2525.1	2544.9	QPSK	1	99	1	0	21.15

20MHz				100	0	100	0	19.46
				1	99	1	0	20.57
			16QAM	100	0	100	0	18.31
			64QAM	1	99	1	0	18.55
				100	0	100	0	18.27

LTE CA_band 7-ANT1

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2530.1	2542.1	QPSK	1	74	1	0	22.52
				75	0	50	0	20.55
			16QAM	1	74	1	0	21.96
				75	0	50	0	19.50
			64QAM	1	74	1	0	19.15
				75	0	50	0	19.50
10MHz/ 20MHz	2525.6	2540	QPSK	1	49	1	0	22.42
				50	0	100	0	20.61
			16QAM	1	49	1	0	21.91
				50	0	100	0	19.55
			64QAM	1	49	1	0	20.74
				50	0	100	0	19.51
20MHz/ 10MHz	2530.1	2544.5	QPSK	1	99	1	0	22.41
				100	0	50	0	20.51
			16QAM	1	99	1	0	21.94
				100	0	50	0	19.51
			64QAM	1	99	1	0	19.15
				100	0	50	0	19.49
15MHz/ 15MHz	2527.5	2542.5	QPSK	1	74	1	0	22.38
				75	0	75	0	20.55
			16QAM	1	74	1	0	21.93
				75	0	75	0	19.52
			64QAM	1	74	1	0	20.72
				75	0	75	0	19.47
15MHz/ 20MHz	2525.3	2542.4	QPSK	1	74	1	0	22.39
				75	0	100	0	20.62
			16QAM	1	74	1	0	22.02
				75	0	100	0	19.58
			64QAM	1	74	1	0	20.70
				75	0	100	0	19.49
20MHz/ 15MHz	2527.6	2544.7	QPSK	1	99	1	0	22.21
				100	0	75	0	20.51
			16QAM	1	99	1	0	22.01
				100	0	75	0	19.56

20MHz/ 20MHz	2525.1	2544.9	64QAM	1	99	1	0	18.67
				100	0	75	0	19.55
			QPSK	1	99	1	0	22.37
				100	0	100	0	20.61
			16QAM	1	99	1	0	21.91
				100	0	100	0	19.62
			64QAM	1	99	1	0	20.61
				100	0	100	0	19.55

LTE CA_band 7-ANT6

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2530.1	2542.1	QPSK	1	74	1	0	21.30
				75	0	50	0	19.67
			16QAM	1	74	1	0	21.06
				75	0	50	0	18.68
			64QAM	1	74	1	0	18.44
				75	0	50	0	18.63
10MHz/ 20MHz	2525.6	2540	QPSK	1	49	1	0	21.58
				50	0	100	0	19.70
			16QAM	1	49	1	0	20.99
				50	0	100	0	18.71
			64QAM	1	49	1	0	19.93
				50	0	100	0	18.66
20MHz/ 10MHz	2530.1	2544.5	QPSK	1	99	1	0	21.61
				100	0	50	0	19.61
			16QAM	1	99	1	0	21.08
				100	0	50	0	18.69
			64QAM	1	99	1	0	17.88
				100	0	50	0	18.66
15MHz/ 15MHz	2527.5	2542.5	QPSK	1	74	1	0	21.56
				75	0	75	0	19.70
			16QAM	1	74	1	0	21.13
				75	0	75	0	18.79
			64QAM	1	74	1	0	19.67
				75	0	75	0	18.63
15MHz/ 20MHz	2525.3	2542.4	QPSK	1	74	1	0	21.60
				75	0	100	0	19.73
			16QAM	1	74	1	0	21.11
				75	0	100	0	18.74
			64QAM	1	74	1	0	19.97
				75	0	100	0	18.61
20MHz/	2527.6	2544.7	QPSK	1	99	1	0	21.65

15MHz				100	0	75	0	19.72
				1	99	1	0	21.17
			16QAM	100	0	75	0	18.65
			64QAM	1	99	1	0	18.38
				100	0	75	0	18.62
20MHz/ 20MHz	2525.1	2544.9	QPSK	1	99	1	0	21.57
				100	0	100	0	19.65
			16QAM	1	99	1	0	21.04
				100	0	100	0	18.68
			64QAM	1	99	1	0	19.77
				100	0	100	0	18.64

LTE CA_band 38-ANT1

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 15MHz	2587.5	2602.5	QPSK	1	74	1	0	23.95
				75	0	75	0	22.27
			16QAM	1	74	1	0	23.54
				75	0	75	0	21.28
			64QAM	1	74	1	0	22.45
				75	0	75	0	21.36
20MHz/ 20MHz	2585.1	2604.9	QPSK	1	99	1	0	23.89
				100	0	100	0	22.25
			16QAM	1	99	1	0	23.53
				100	0	100	0	21.31
			64QAM	1	99	1	0	22.40
				100	0	100	0	21.35

LTE CA_band 38-ANT6

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/ 15MHz	2587.5	2602.5	QPSK	1	74	1	0	22.65
				75	0	75	0	21.04
			16QAM	1	74	1	0	22.32
				75	0	75	0	20.07
			64QAM	1	74	1	0	20.97
				75	0	75	0	19.98
20MHz/ 20MHz	2585.1	2604.9	QPSK	1	99	1	0	22.52
				100	0	100	0	21.06
			16QAM	1	99	1	0	22.27
				100	0	100	0	19.96
			64QAM	1	99	1	0	21.08
				100	0	100	0	19.97

LTE CA_band 41-ANT1

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	23.94
				25	0	100	0	21.98
			16QAM	1	24	1	0	23.36
				25	0	100	0	21.09
			64QAM	1	24	1	0	22.42
				25	0	100	0	21.13
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	24.06
				100	0	25	0	22.21
			16QAM	1	99	1	0	23.63
				100	0	25	0	21.26
			64QAM	1	99	1	0	22.71
				100	0	25	0	21.37
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	24.01
				50	0	75	0	22.02
			16QAM	1	49	1	0	23.56
				50	0	75	0	21.24
			64QAM	1	49	1	0	22.41
				50	0	75	0	21.22
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.87
				75	0	50	0	21.98
			16QAM	1	74	1	0	23.45
				75	0	50	0	21.12
			64QAM	1	74	1	0	22.31
				75	0	50	0	21.13
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	24.01
				50	0	100	0	21.97
			16QAM	1	49	1	0	23.57
				50	0	100	0	21.07
			64QAM	1	49	1	0	22.42
				50	0	100	0	21.11
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.93
				100	0	50	0	22.01
			16QAM	1	99	1	0	23.45
				100	0	50	0	21.04
			64QAM	1	99	1	0	22.41
				100	0	50	0	21.02
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.96
				75	0	75	0	21.97
			16QAM	1	74	1	0	23.45
				75	0	75	0	21.04

			64QAM	1	74	1	0	22.44
				75	0	75	0	21.09
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.87
				75	0	100	0	21.83
			16QAM	1	74	1	0	23.34
				75	0	100	0	20.98
			64QAM	1	74	1	0	22.37
				75	0	100	0	20.97
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	24.00
				100	0	75	0	21.93
			16QAM	1	99	1	0	23.43
				100	0	75	0	20.97
			64QAM	1	99	1	0	22.25
				100	0	75	0	20.94
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.03
				100	0	100	0	21.96
			16QAM	1	99	1	0	23.63
				100	0	100	0	21.06
			64QAM	1	99	1	0	22.64
				100	0	100	0	21.03

LTE CA_band 41-ANT6

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	23.23
				25	0	100	0	21.31
			16QAM	1	24	1	0	22.76
				25	0	100	0	20.41
			64QAM	1	24	1	0	21.60
				25	0	100	0	20.38
20MHz/ 5MHz	2590.5	2602.2	QPSK	1	99	1	0	23.32
				100	0	25	0	21.61
			16QAM	1	99	1	0	22.89
				100	0	25	0	20.53
			64QAM	1	99	1	0	21.85
				100	0	25	0	20.52
10MHz/ 15MHz	2585.9	2597.9	QPSK	1	49	1	0	23.29
				50	0	75	0	21.41
			16QAM	1	49	1	0	22.89
				50	0	75	0	20.45
			64QAM	1	49	1	0	21.67
				50	0	75	0	20.45
15MHz/ 10MHz	2588.1	2600.1	QPSK	1	74	1	0	23.25
				75	0	50	0	21.45
			16QAM	1	74	1	0	22.86
				75	0	50	0	20.48
			64QAM	1	74	1	0	21.71
				75	0	50	0	20.47
10MHz/ 20MHz	2583.6	2598.0	QPSK	1	49	1	0	23.21
				50	0	100	0	21.31
			16QAM	1	49	1	0	22.83
				50	0	100	0	20.36
			64QAM	1	49	1	0	21.61
				50	0	100	0	20.31
20MHz/ 10MHz	2588.1	2602.5	QPSK	1	99	1	0	23.30
				100	0	50	0	21.54
			16QAM	1	99	1	0	22.92
				100	0	50	0	20.51
			64QAM	1	99	1	0	21.72
				100	0	50	0	20.45
15MHz/ 15MHz	2585.5	2600.5	QPSK	1	74	1	0	23.33
				75	0	75	0	21.57
			16QAM	1	74	1	0	22.95
				75	0	75	0	20.57

			64QAM	1	74	1	0	21.81
				75	0	75	0	20.54
15MHz/ 20MHz	2583.3	2600.4	QPSK	1	74	1	0	23.25
				75	0	100	0	21.39
			16QAM	1	74	1	0	22.85
				75	0	100	0	20.37
			64QAM	1	74	1	0	21.73
				75	0	100	0	20.36
20MHz/ 15MHz	2585.6	2602.7	QPSK	1	99	1	0	23.26
				100	0	75	0	21.39
			16QAM	1	99	1	0	22.87
				100	0	75	0	20.43
			64QAM	1	99	1	0	21.71
				100	0	75	0	20.37
20MHz/ 20MHz	2583.1	2602.9	QPSK	1	99	1	0	22.64
				100	0	100	0	20.51
			16QAM	1	99	1	0	22.16
				100	0	100	0	19.62
			64QAM	1	99	1	0	20.97
				100	0	100	0	19.62

A.1.3 Radiated

A.1.3.1 Description

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

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

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

Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

transmitters and auxiliary test transmitters must not exceed 7 watts".

Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

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".

A.1.3.2 Method of Measurement

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

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:

$ERP \text{ or } EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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_T = transmitter output power in 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.

Disclaimer: 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.

A.1.3.3 Measurement result

LTE Band 2-ANT1-EIRP

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) ($G_T - L_C = -2.1$)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4M Hz	1 RB high	1909.3	22.30	21.20	20.86	20.20	19.10	18.76
		1880.0	22.47	21.96	21.07	20.37	19.86	18.97
		1850.7	22.43	22.19	21.04	20.33	20.09	18.94
	1 RB low	1909.3	22.28	21.16	21.03	20.18	19.06	18.93
		1880.0	22.54	21.94	21.20	20.44	19.84	19.10
		1850.7	22.48	22.07	21.12	20.38	19.97	19.02
	50% RB mid	1909.3	22.15	21.07	20.81	20.05	18.97	18.71
		1880.0	22.56	21.67	21.11	20.46	19.57	19.01
		1850.7	22.53	21.78	21.22	20.43	19.68	19.12
	100% RB	1909.3	21.17	20.17	19.63	19.07	18.07	17.53
		1880.0	21.51	20.38	20.05	19.41	18.28	17.95
		1850.7	21.54	20.46	20.05	19.44	18.36	17.95
3MHz	1 RB high	1908.5	22.69	21.04	20.94	20.59	18.94	18.84
		1880.0	22.68	21.98	21.21	20.58	19.88	19.11
		1851.5	22.56	21.61	21.09	20.46	19.51	18.99
	1 RB low	1908.5	22.71	21.16	21.08	20.61	19.06	18.98
		1880.0	22.78	22.15	21.24	20.68	20.05	19.14
		1851.5	22.71	21.80	21.17	20.61	19.70	19.07
	50% RB mid	1908.5	21.55	20.39	19.85	19.45	18.29	17.75
		1880.0	21.76	20.76	20.14	19.66	18.66	18.04
		1851.5	21.78	20.72	20.12	19.68	18.62	18.02
	100% RB	1908.5	21.54	20.32	19.79	19.44	18.22	17.69
		1880.0	21.68	20.65	19.69	19.58	18.55	17.59
		1851.5	21.72	20.62	20.04	19.62	18.52	17.94
5MHz	1 RB high	1907.5	22.49	21.36	20.92	20.39	19.26	18.82
		1880.0	22.66	22.16	21.28	20.56	20.06	19.18
		1852.5	22.59	21.94	21.24	20.49	19.84	19.14
	1 RB low	1907.5	22.42	21.44	21.03	20.32	19.34	18.93
		1880.0	22.69	22.18	21.26	20.59	20.08	19.16
		1852.5	22.63	21.96	21.39	20.53	19.86	19.29
	50% RB mid	1907.5	21.47	20.37	19.83	19.37	18.27	17.73
		1880.0	21.66	20.77	20.11	19.56	18.67	18.01
		1852.5	21.73	20.87	20.10	19.63	18.77	18.00
	100% RB	1907.5	21.44	20.28	19.80	19.34	18.18	17.70
		1880.0	21.63	20.66	20.00	19.53	18.56	17.90

		1852.5	21.66	20.79	20.06	19.56	18.69	17.96
10M Hz	1 RB high	1905.0	22.79	21.25	21.02	20.69	19.15	18.92
		1880.0	22.67	22.12	21.40	20.57	20.02	19.30
		1855.0	22.64	21.60	21.16	20.54	19.50	19.06
	1 RB low	1905.0	22.63	21.34	20.82	20.53	19.24	18.72
		1880.0	22.76	22.23	21.17	20.66	20.13	19.07
		1855.0	22.70	21.67	21.21	20.60	19.57	19.11
	50% RB mid	1905.0	21.64	20.39	19.96	19.54	18.29	17.86
		1880.0	21.82	20.71	20.07	19.72	18.61	17.97
		1855.0	21.75	20.76	20.17	19.65	18.66	18.07
	100% RB	1905.0	21.55	20.39	19.85	19.45	18.29	17.75
		1880.0	21.77	20.66	20.15	19.67	18.56	18.05
		1855.0	21.76	20.70	20.06	19.66	18.60	17.96
15M Hz	1 RB high	1902.5	22.71	21.74	20.83	20.61	19.64	18.73
		1880.0	22.66	21.51	21.38	20.56	19.41	19.28
		1857.5	22.62	21.96	21.38	20.52	19.86	19.28
	1 RB low	1902.5	22.69	21.74	21.03	20.59	19.64	18.93
		1880.0	22.63	21.60	21.21	20.53	19.50	19.11
		1857.5	22.64	22.00	21.34	20.54	19.90	19.24
	50% RB mid	1902.5	21.56	20.34	19.73	19.46	18.24	17.63
		1880.0	21.71	20.67	20.01	19.61	18.57	17.91
		1857.5	21.69	20.73	20.03	19.59	18.63	17.93
	100% RB	1902.5	21.56	20.33	19.69	19.46	18.23	17.59
		1880.0	21.69	20.62	19.89	19.59	18.52	17.79
		1857.5	21.67	20.66	19.96	19.57	18.56	17.86
20M Hz	1 RB high	1900.0	22.27	21.66	20.91	20.17	19.56	18.81
		1880.0	22.47	21.90	21.17	20.37	19.80	19.07
		1860.0	22.43	21.88	21.47	20.33	19.78	19.37
	1 RB low	1900.0	22.28	21.82	20.79	20.18	19.72	18.69
		1880.0	22.44	21.87	21.43	20.34	19.77	19.33
		1860.0	22.41	21.83	21.34	20.31	19.73	19.24
	50% RB mid	1900.0	21.37	20.21	19.90	19.27	18.11	17.80
		1880.0	21.50	20.54	20.10	19.40	18.44	18.00
		1860.0	21.57	20.50	20.08	19.47	18.40	17.98
	100% RB	1900.0	21.35	20.25	19.85	19.25	18.15	17.75
		1880.0	21.55	20.52	20.02	19.45	18.42	17.92
		1860.0	21.58	20.58	20.03	19.48	18.48	17.93

LTE Band 2-ANT6-EIRP

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)			Radiated Power (dBm) (G _T – L _C = -1.5)		
			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1.4M Hz	1 RB high	1909.3	21.34	20.34	19.18	19.84	18.84	17.68
		1880.0	21.66	20.93	19.63	20.16	19.43	18.13
		1850.7	21.61	21.06	19.79	20.11	19.56	18.29
	1 RB low	1909.3	21.22	20.46	19.39	19.72	18.96	17.89
		1880.0	21.81	21.00	19.70	20.31	19.50	18.20
		1850.7	21.77	21.06	20.03	20.27	19.56	18.53
	50% RB mid	1909.3	21.17	20.14	19.24	19.67	18.64	17.74
		1880.0	21.76	20.71	19.56	20.26	19.21	18.06
		1850.7	21.80	20.88	19.82	20.30	19.38	18.32
	100% RB	1909.3	20.26	19.36	18.09	18.76	17.86	16.59
		1880.0	20.78	19.66	18.51	19.28	18.16	17.01
		1850.7	20.83	19.86	18.71	19.33	18.36	17.21
3MHz	1 RB high	1908.5	21.39	20.32	19.42	19.89	18.82	17.92
		1880.0	21.56	21.05	19.80	20.06	19.55	18.30
		1851.5	21.71	21.04	19.88	20.21	19.54	18.38
	1 RB low	1908.5	21.55	20.72	19.48	20.05	19.22	17.98
		1880.0	21.80	21.08	20.02	20.30	19.58	18.52
		1851.5	21.92	21.19	19.94	20.42	19.69	18.44
	50% RB mid	1908.5	20.28	19.38	18.19	18.78	17.88	16.69
		1880.0	20.88	19.82	18.69	19.38	18.32	17.19
		1851.5	20.96	19.85	18.88	19.46	18.35	17.38
	100% RB	1908.5	20.37	19.33	18.23	18.87	17.83	16.73
		1880.0	20.73	19.68	18.65	19.23	18.18	17.15
		1851.5	20.85	19.96	18.75	19.35	18.46	17.25
5MHz	1 RB high	1907.5	21.41	20.41	19.22	19.91	18.91	17.72
		1880.0	21.75	21.06	19.77	20.25	19.56	18.27
		1852.5	21.76	21.11	19.92	20.26	19.61	18.42
	1 RB low	1907.5	21.47	20.64	19.32	19.97	19.14	17.82
		1880.0	21.88	21.06	19.77	20.38	19.56	18.27
		1852.5	21.98	21.19	20.00	20.48	19.69	18.50
	50% RB mid	1907.5	20.36	19.45	18.17	18.86	17.95	16.67
		1880.0	20.78	19.70	18.60	19.28	18.20	17.10
		1852.5	20.91	19.94	18.71	19.41	18.44	17.21
	100% RB	1907.5	20.45	19.28	18.13	18.95	17.78	16.63
		1880.0	20.73	19.77	18.51	19.23	18.27	17.01
		1852.5	20.91	19.88	18.86	19.41	18.38	17.36