

FCC Test Report (ENDC: n41 + LTE B2/B4/B12/B25/B26/B66)

Report No.: RFBFLF-WTW-P21010278-28

FCC ID: MSQI007D

Test Model: ASUS_I007D

Received Date: Jan. 04, 2021

Test Date: Feb. 26 ~ Apr. 19, 2021

Issued Date: Apr. 19, 2021

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty.....	10
2.2 Test Site and Instruments.....	11
3 General Information	13
3.1 General Description of EUT.....	13
3.2 Configuration of System under Test.....	22
3.2.1 Description of Support Units.....	22
3.3 Test Mode Applicability and Tested Channel Detail.....	23
3.4 EUT Operating Conditions.....	41
3.5 General Description of Applied Standards and References.....	41
4 Test Types and Results	42
4.1 Output Power Measurement.....	42
4.1.1 Limits of Output Power Measurement.....	42
4.1.2 Test Procedures.....	42
4.1.3 Test Setup.....	43
4.1.4 Test Results.....	44
4.2 Modulation Characteristics Measurement.....	126
4.2.1 Limits of Modulation Characteristics.....	126
4.2.2 Test Procedure.....	126
4.2.3 Test Setup.....	126
4.2.4 Test Results.....	127
4.3 Frequency Stability Measurement.....	128
4.3.1 Limits of Frequency Stability Measurement.....	128
4.3.2 Test Procedure.....	128
4.3.3 Test Instruments.....	128
4.3.4 Conducted Setup.....	128
4.3.5 Test Results.....	129
4.4 Occupied Bandwidth Measurement.....	137
4.4.1 Test Procedure.....	137
4.4.2 Test Setup.....	137
4.4.3 Test Result.....	138
4.5 Out-of-Band Emissions Measurement.....	144
4.5.1 Limits of Out-of-Band Emissions Measurement.....	144
4.5.2 Test Setup.....	144
4.5.3 Test Procedures.....	144
4.5.4 Test Results.....	145
4.6 Peak to Average Ratio.....	153
4.6.1 Limits of Peak to Average Ratio Measurement.....	153
4.6.2 Test Setup.....	153
4.6.3 Test Procedures.....	153
4.6.4 Test Results.....	154
4.7 Conducted Spurious Emissions.....	157
4.7.1 Limits of Conducted Spurious Emissions Measurement.....	157
4.7.2 Test Setup.....	157
4.7.3 Test Procedure.....	157
4.7.4 Test Results.....	158
4.8 Radiated Emission Measurement.....	182
4.8.1 Limits of Radiated Emission Measurement.....	182
4.8.2 Test Procedure.....	183
4.8.3 Deviation from Test Standard.....	183
4.8.4 Test Setup.....	184

4.8.5 Test Results	185
5 Pictures of Test Arrangements.....	248
Appendix – Information of the Testing Laboratories	249

Release Control Record

Issue No.	Description	Date Issued
RFBFLF-WTW-P21010278-28	Original release	Apr. 19, 2021

1 Certificate of Conformity

Product: EXP21 Smartphone

Brand: ASUS

Test Model: ASUS_I007D

Sample Status: Engineering sample

Applicant: ASUSTeK COMPUTER INC.

Test Date: Feb. 26 ~ Apr. 19, 2021

Standards: FCC Part 22, Subpart H
FCC Part 24, Subpart E
FCC Part 27, Subpart C, H, L, M
FCC Part 90, Subpart R

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Apr. 19, 2021
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Apr. 19, 2021
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

For n41

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50 (h)(2)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
----	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53 (m)(4)(6)	Out of Band Emissions Measurements	Pass	Meet the requirement of limit.
2.1051 27.53 (m)(4)(6)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53 (m)(4)(6)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -24.31dB at 5042.04MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 2, LTE Band 25

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232 (d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1047	Modulation Characteristics	Pass	Refer to Note 1
2.1055 24.235	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
24.238	Band Edge Measurements	Pass	Refer to Note 1
2.1051 24.238	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -24.84dB at 3825.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Effective Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-10.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 4, LTE Band 12, LTE Band 66

Applied Standard: FCC Part 27 & Part 2					
FCC Clause			Test Item	Result	Remarks
LTE B4	LTE B12	LTE B66			
2.1046 27.50 (d)(4)	2.1046 27.50 (c)	2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power / Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	2.1047	2.1047	Modulation Characteristics	Pass	Refer to Note 1
27.50 (d)(5)	----	27.50 (d)(5)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 27.54	2.1055 27.54	2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Refer to Note 1
2.1049	2.1049	2.1049	Occupied Bandwidth	Pass	Refer to Note 1
2.1051 27.53 (h)	2.1051 27.53 (g)	2.1051 27.53 (h)	Band Edge / Out of Band Emissions Measurements	Pass	Refer to Note 1
2.1051 27.53 (h)	2.1051 27.53 (g)	2.1051 27.53 (h)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 27.53 (h)	2.1053 27.53 (g)	2.1053 27.53 (h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -39.49dB at 3490.00MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Equivalent Isotropically Radiated Power / Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-11.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 26

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective radiated power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
22.913 (d)	Peak To Average Ratio	Pass	Refer to Note 1
2.1055 22.355	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
22.917	Band Edge Measurements	Pass	Refer to Note 1
2.1051 22.917	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -44.94dB at 1696.60MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Effective Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-9.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For LTE Band 26

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.542 (a)(7)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Refer to Note 1
2.1055 90.539 (e)	Frequency Stability	Pass	Refer to Note 1
2.1049	Occupied Bandwidth	Pass	Refer to Note 1
-	Emission Masks	Pass	Refer to Note 1
2.1053 90.543 (e)(2)(3)	Band Edge Measurements	Pass	Refer to Note 1
2.1051 90.543 (e)(3)	Conducted Spurious Emissions	Pass	Refer to Note 1
2.1053 90.543 (e)(f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -43.13dB at 1629.40MHz.

Note:

1. This report is a partial report. Therefore, only test item of Transmitter Output Power and Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RFBFLF-WTW-P21010278-12.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
			Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW43	101866	Dec. 14, 2020	Dec. 13, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
5G Wireless Test Platforms Keysight	E7515B	MY60102114	May 28, 2020	May 27, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM80 00	CABLE-CH9-02 (248780+171006)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Standard Temperature And Humidity Chamber GIANT FORCE	GTH-120-40-CP-A R	MAA1306-019	Sep. 10, 2020	Sep. 09, 2021

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021
DC power supply Keysight	U8002A	MY56330015	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	EXP21 Smartphone
Brand	ASUS
Test Model	ASUS_I007D
Sample Status	Engineering sample
Power Supply Rating	7.74 Vdc (Battery) 5 Vdc / 9 Vdc / 12 Vdc / 15Vdc / 20Vdc (Adapter)

n41

Modulation Type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM					
Waveform Type	CP-OFDM, DFT-s-OFDM					
Operating Frequency	n41 (Channel Bandwidth 20MHz)	2506.02MHz ~ 2679.99MHz				
	n41 (Channel Bandwidth 30MHz)	2511.00MHz ~ 2674.98MHz				
	n41 (Channel Bandwidth 40MHz)	2516.01MHz ~ 2670.00MHz				
	n41 (Channel Bandwidth 50MHz)	2521.02MHz ~ 2664.99MHz				
	n41 (Channel Bandwidth 60MHz)	2526.00MHz ~ 2659.98MHz				
	n41 (Channel Bandwidth 80MHz)	2536.02MHz ~ 2649.99MHz				
	n41 (Channel Bandwidth 90MHz)	2541.00MHz ~ 2644.98MHz				
	n41 (Channel Bandwidth 100MHz)	2546.01MHz ~ 2640.00MHz				
Max. EIRP Power		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n41 (Channel Bandwidth 20MHz)	527.230mW (27.22dBm)	526.017mW (27.21dBm)	425.598mW (26.29dBm)	291.743mW (24.65dBm)	182.390mW (22.61dBm)
	n41 (Channel Bandwidth 30MHz)	522.396mW (27.18dBm)	535.797mW (27.29dBm)	407.380mW (26.10dBm)	287.078mW (24.58dBm)	176.604mW (22.47dBm)
	n41 (Channel Bandwidth 40MHz)	524.807mW (27.20dBm)	535.797mW (27.29dBm)	415.911mW (26.19dBm)	289.068mW (24.61dBm)	179.887mW (22.55dBm)
	n41 (Channel Bandwidth 50MHz)	526.017mW (27.21dBm)	526.017mW (27.21dBm)	424.620mW (26.28dBm)	290.402mW (24.63dBm)	182.810mW (22.62dBm)
	n41 (Channel Bandwidth 60MHz)	535.797mW (27.29dBm)	535.797mW (27.29dBm)	425.598mW (26.29dBm)	289.068mW (24.61dBm)	182.810mW (22.62dBm)
	n41 (Channel Bandwidth 80MHz)	527.230mW (27.22dBm)	524.807mW (27.20dBm)	416.869mW (26.20dBm)	287.740mW (24.59dBm)	180.717mW (22.57dBm)
	n41 (Channel Bandwidth 90MHz)	530.884mW (27.25dBm)	529.663mW (27.24dBm)	416.869mW (26.20dBm)	288.403mW (24.60dBm)	183.654mW (22.64dBm)
	n41 (Channel Bandwidth 100MHz)	535.797mW (27.29dBm)	545.758mW (27.37dBm)	425.598mW (26.29dBm)	290.402mW (24.63dBm)	183.231mW (22.63dBm)
Emission Designator		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
	n41 (Channel Bandwidth 20MHz)	18M0G7D	18M2G7D	18M2D7W	18M2D7W	18M2D7W
	n41 (Channel Bandwidth 30MHz)	27M6G7D	27M9G7D	27M9D7W	27M9D7W	27M9D7W
	n41 (Channel Bandwidth 40MHz)	37M5G7D	37M8G7D	37M8D7W	37M8D7W	37M8D7W
	n41 (Channel Bandwidth 50MHz)	47M0G7D	47M5G7D	47M5D7W	47M5D7W	47M5D7W
	n41 (Channel Bandwidth 60MHz)	57M9G7D	57M9G7D	57M9D7W	57M9D7W	57M9D7W
	n41 (Channel Bandwidth 80MHz)	77M0G7D	77M5G7D	77M5D7W	77M5D7W	77M5D7W
	n41 (Channel Bandwidth 90MHz)	86M9G7D	87M5G7D	87M5D7W	87M5D7W	87M5D7W
n41 (Channel Bandwidth 100MHz)	96M6G7D	97M4G7D	97M4D7W	97M4D7W	97M4D7W	

LTE Band

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM	
Operating Frequency	LTE Band 2 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1909.3MHz
	LTE Band 2 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1908.5MHz
	LTE Band 2 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1907.5MHz
	LTE Band 2 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1905.0MHz
	LTE Band 2 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1902.5MHz
	LTE Band 2 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1900.0MHz
	LTE Band 4 (Channel Bandwidth 1.4MHz)	1710.7MHz ~ 1754.3MHz
	LTE Band 4 (Channel Bandwidth 3MHz)	1711.5MHz ~ 1753.5MHz
	LTE Band 4 (Channel Bandwidth 5MHz)	1712.5MHz ~ 1752.5MHz
	LTE Band 4 (Channel Bandwidth 10MHz)	1715.0MHz ~ 1750.0MHz
	LTE Band 4 (Channel Bandwidth 15MHz)	1717.5MHz ~ 1747.5MHz
	LTE Band 4 (Channel Bandwidth 20MHz)	1720.0MHz ~ 1745.0MHz
	LTE Band 12 (Channel Bandwidth 1.4MHz)	699.7MHz ~ 715.3MHz
	LTE Band 12 (Channel Bandwidth 3MHz)	700.5MHz ~ 714.5MHz
	LTE Band 12 (Channel Bandwidth 5MHz)	701.5MHz ~ 713.5MHz
	LTE Band 12 (Channel Bandwidth 10MHz)	704.0MHz ~ 711.0MHz
	LTE Band 25 (Channel Bandwidth 1.4MHz)	1850.7MHz ~ 1914.3MHz
	LTE Band 25 (Channel Bandwidth 3MHz)	1851.5MHz ~ 1913.5MHz
	LTE Band 25 (Channel Bandwidth 5MHz)	1852.5MHz ~ 1912.5MHz
	LTE Band 25 (Channel Bandwidth 10MHz)	1855.0MHz ~ 1910.0MHz
	LTE Band 25 (Channel Bandwidth 15MHz)	1857.5MHz ~ 1907.5MHz
	LTE Band 25 (Channel Bandwidth 20MHz)	1860.0MHz ~ 1905.0MHz
	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7MHz ~ 823.3MHz 824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth 3MHz)	815.5MHz ~ 822.5MHz 825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5MHz ~ 821.5MHz 826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth 10MHz)	819.0MHz 829.0MHz ~ 844.0MHz
	LTE Band 26 (Channel Bandwidth 15MHz)	831.5MHz ~ 841.5MHz
	LTE Band 66 (Channel Bandwidth 1.4MHz)	1710.7MHz ~ 1779.3MHz
	LTE Band 66 (Channel Bandwidth 3MHz)	1711.5MHz ~ 1778.5MHz
	LTE Band 66 (Channel Bandwidth 5MHz)	1712.5MHz ~ 1777.5MHz
LTE Band 66 (Channel Bandwidth 10MHz)	1715.0MHz ~ 1775.0MHz	
LTE Band 66 (Channel Bandwidth 15MHz)	1717.5MHz ~ 1772.5MHz	
LTE Band 66 (Channel Bandwidth 20MHz)	1720.0MHz ~ 1770.0MHz	

Max. EIRP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	167.880mW (22.25dBm)	133.352mW (21.25dBm)	106.905mW (20.29dBm)	50.119mW (17.00dBm)
LTE Band 2 (Channel Bandwidth 3MHz)	168.267mW (22.26dBm)	136.773mW (21.36dBm)	104.954mW (20.21dBm)	49.659mW (16.96dBm)	
LTE Band 2 (Channel Bandwidth 5MHz)	167.880mW (22.25dBm)	133.660mW (21.26dBm)	108.643mW (20.36dBm)	49.659mW (16.96dBm)	
LTE Band 2 (Channel Bandwidth 10MHz)	172.584mW (22.37dBm)	134.586mW (21.29dBm)	105.439mW (20.23dBm)	50.119mW (17.00dBm)	
LTE Band 2 (Channel Bandwidth 15MHz)	172.584mW (22.37dBm)	137.404mW (21.38dBm)	104.954mW (20.21dBm)	52.119mW (17.17dBm)	
LTE Band 2 (Channel Bandwidth 20MHz)	175.388mW (22.44dBm)	140.605mW (21.48dBm)	110.662mW (20.44dBm)	53.456mW (17.28dBm)	
LTE Band 4 (Channel Bandwidth 1.4MHz)	159.956mW (22.04dBm)	127.350mW (21.05dBm)	103.039mW (20.13dBm)	47.424mW (16.76dBm)	
LTE Band 4 (Channel Bandwidth 3MHz)	157.761mW (21.98dBm)	125.314mW (20.98dBm)	103.753mW (20.16dBm)	47.206mW (16.74dBm)	
LTE Band 4 (Channel Bandwidth 5MHz)	154.882mW (21.90dBm)	127.057mW (21.04dBm)	102.329mW (20.10dBm)	45.604mW (16.59dBm)	
LTE Band 4 (Channel Bandwidth 10MHz)	156.675mW (21.95dBm)	127.057mW (21.04dBm)	100.462mW (20.02dBm)	47.206mW (16.74dBm)	
LTE Band 4 (Channel Bandwidth 15MHz)	161.065mW (22.07dBm)	131.220mW (21.18dBm)	102.329mW (20.10dBm)	48.306mW (16.84dBm)	
LTE Band 4 (Channel Bandwidth 20MHz)	163.682mW (22.14dBm)	129.420mW (21.12dBm)	103.992mW (20.17dBm)	46.666mW (16.69dBm)	
LTE Band 25 (Channel Bandwidth 1.4MHz)	163.305mW (22.13dBm)	131.220mW (21.18dBm)	105.925mW (20.25dBm)	48.978mW (16.90dBm)	
LTE Band 25 (Channel Bandwidth 3MHz)	158.489mW (22.00dBm)	130.017mW (21.14dBm)	102.802mW (20.12dBm)	46.881mW (16.71dBm)	
LTE Band 25 (Channel Bandwidth 5MHz)	164.059mW (22.15dBm)	127.938mW (21.07dBm)	100.925mW (20.04dBm)	47.643mW (16.78dBm)	
LTE Band 25 (Channel Bandwidth 10MHz)	163.682mW (22.14dBm)	128.529mW (21.09dBm)	106.170mW (20.26dBm)	49.204mW (16.92dBm)	
LTE Band 25 (Channel Bandwidth 15MHz)	166.341mW (22.21dBm)	132.739mW (21.23dBm)	104.954mW (20.21dBm)	50.466mW (17.03dBm)	
LTE Band 25 (Channel Bandwidth 20MHz)	167.494mW (22.24dBm)	133.045mW (21.24dBm)	105.196mW (20.22dBm)	49.091mW (16.91dBm)	

Max. EIRP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 66 (Channel Bandwidth 1.4MHz)	150.661mW (21.78dBm)	121.899mW (20.86dBm)	98.855mW (19.95dBm)	44.055mW (16.44dBm)
	LTE Band 66 (Channel Bandwidth 3MHz)	149.968mW (21.76dBm)	125.314mW (20.98dBm)	96.828mW (19.86dBm)	44.055mW (16.44dBm)
	LTE Band 66 (Channel Bandwidth 5MHz)	146.555mW (21.66dBm)	122.180mW (20.87dBm)	101.158mW (20.05dBm)	49.091mW (16.91dBm)
	LTE Band 66 (Channel Bandwidth 10MHz)	154.170mW (21.88dBm)	118.850mW (20.75dBm)	99.083mW (19.96dBm)	49.091mW (16.91dBm)
	LTE Band 66 (Channel Bandwidth 15MHz)	147.231mW (21.68dBm)	124.738mW (20.96dBm)	103.276mW (20.14dBm)	47.315mW (16.75dBm)
	LTE Band 66 (Channel Bandwidth 20MHz)	154.882mW (21.90dBm)	128.233mW (21.08dBm)	101.859mW (20.08dBm)	47.315mW (16.75dBm)

Max. ERP Power		QPSK	16QAM	64QAM	256QAM
	LTE Band 12 (Channel Bandwidth 1.4MHz)	104.472mW (20.19dBm)	86.696mW (19.38dBm)	67.920mW (18.32dBm)	33.266mW (15.22dBm)
	LTE Band 12 (Channel Bandwidth 3MHz)	106.170mW (20.26dBm)	82.794mW (19.18dBm)	71.121mW (18.52dBm)	32.509mW (15.12dBm)
	LTE Band 12 (Channel Bandwidth 5MHz)	106.905mW (20.29dBm)	88.105mW (19.45dBm)	71.450mW (18.54dBm)	31.477mW (14.98dBm)
	LTE Band 12 (Channel Bandwidth 10MHz)	107.399mW (20.31dBm)	87.096mW (19.40dBm)	72.778mW (18.62dBm)	34.041mW (15.32dBm)
	LTE Band 26 (Channel Bandwidth 1.4MHz) (For FCC Part 22)	116.145mW (20.65dBm)	92.045mW (19.64dBm)	70.795mW (18.50dBm)	34.754mW (15.41dBm)
	LTE Band 26 (Channel Bandwidth 3MHz) (For FCC Part 22)	114.025mW (20.57dBm)	90.782mW (19.58dBm)	71.450mW (18.54dBm)	34.514mW (15.38dBm)
	LTE Band 26 (Channel Bandwidth 5MHz) (For FCC Part 22)	111.173mW (20.46dBm)	90.365mW (19.56dBm)	72.277mW (18.59dBm)	32.509mW (15.12dBm)
	LTE Band 26 (Channel Bandwidth 10MHz) (For FCC Part 22)	113.763mW (20.56dBm)	86.896mW (19.39dBm)	70.958mW (18.51dBm)	32.961mW (15.18dBm)
	LTE Band 26 (Channel Bandwidth 15MHz) (For FCC Part 22)	116.681mW (20.67dBm)	92.470mW (19.66dBm)	72.277mW (18.59dBm)	32.509mW (15.12dBm)
	LTE Band 26 (Channel Bandwidth 1.4MHz) (For FCC Part 90)	93.325mW (19.70dBm)	75.336mW (18.77dBm)	55.719mW (17.46dBm)	31.623mW (15.00dBm)
	LTE Band 26 (Channel Bandwidth 3MHz) (For FCC Part 90)	88.920mW (19.49dBm)	68.391mW (18.35dBm)	57.677mW (17.61dBm)	25.704mW (14.10dBm)
	LTE Band 26 (Channel Bandwidth 5MHz) (For FCC Part 90)	89.331mW (19.51dBm)	74.817mW (18.74dBm)	56.234mW (17.50dBm)	27.164mW (14.34dBm)
	LTE Band 26 (Channel Bandwidth 10MHz) (For FCC Part 90)	90.157mW (19.55dBm)	71.614mW (18.55dBm)	51.286mW (17.10dBm)	27.102mW (14.33dBm)
Antenna Type	Refer to Note as below				
Antenna Connector	Refer to Note as below				
Accessory Device	Refer to Note as below				
Cable Supplied	Refer to Note as below				

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Battery	SCUD	C21P2002	Rating: 7.74Vdc, 15.2Wh
Adapter	AOHAI	A320Q-200325C-US	I/P: 100-240Vac, 50/60Hz, 1.5A O/P: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 3A; 15Vdc, 3A; 20Vdc, 3.25A
Type A to Type C USB Cable	Luxshare	LA9U2026-CS-R	0.5m
Type C to Type C Cable	Luxshare	LA9UC006-CS-R	1.2m
Bluetooth Earphone	Bang & Olufsen	EQ Earbud R	FCC ID: TTUBEOPLAYEQR IC: 3775B-BEOPLAYEQR
		EQ Earbud L	FCC ID: TTUBEOPLAYEQL IC: 3775B-BEOPLAYEQL
Bluetooth Earphone Charging Case	Bang & Olufsen	EQ Charging case	I/P: 5Vdc/500mA O/P: 5Vdc/ R170mA; L170mA

2. The following antennas were provided to the EUT.

Ant. No.	Brand	Model	Ant. Type	Connector	Frequency Range
Ant 0	ASUS	ZS675KW	PIFA	LCP+lpex	610-960MHz, 1710-2690MHz
Ant 1	ASUS	ZS675KW	PIFA	LCP+lpex	1427-1510MHz, 1710-2690MHz
Ant 2	ASUS	ZS675KW	PIFA	LCP+lpex	610-960MHz, 1427-1510MHz, 1710-2690MHz
Ant 3	INPAQ	ZS675KW	PIFA	lpex	1575-1610MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 4	INPAQ	ZS675KW	PIFA	lpex	1176±10MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 5	INPAQ	ZS675KW	PIFA	LCP+lpex	3300-4000MHz, 4400-5000MHz
Ant 6	INPAQ	ZS675KW	PIFA	lpex	1427-1510MHz, 2400-2500MHz, 5150-5850MHz, 5925-7125MHz
Ant 7	INPAQ	ZS675KW	PIFA	LCP+lpex	3300-4000MHz, 4400-5000MHz
Ant 8	ASUS	ZS675KW	PIFA	LCP+lpex	1427-1510MHz, 1710-2690MHz
Ant 9	ASUS	ZS675KW	PIFA	LCP+lpex	1710-2690MHz
Ant 10	INPAQ	ZS675KW	PIFA	lpex	3300-4000MHz, 4400-5000MHz
Ant 11	INPAQ	ZS675KW	PIFA	lpex	3300-4000MHz, 4400-5000MHz

2G / 3G Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
GSM-850	824 ~ 849	-1.891		-4.526									
GSM-1900	1850 ~ 1910		-1.887	-1.394						-2.89579			
WCDMA B2	1850 ~ 1910		-1.887	-1.394						-2.89579			
WCDMA B4	1710 ~ 1755		-2.884	-3.228						-3.13552			
WCDMA B5	824 ~ 849	-1.891		-4.526									
CDMA BC0	815 ~ 849	-1.891		-4.526									
CDMA BC1	1850 ~ 1910		-1.887	-1.394						-2.89579			
CDMA BC10	806 ~ 901	-1.891		-4.526									

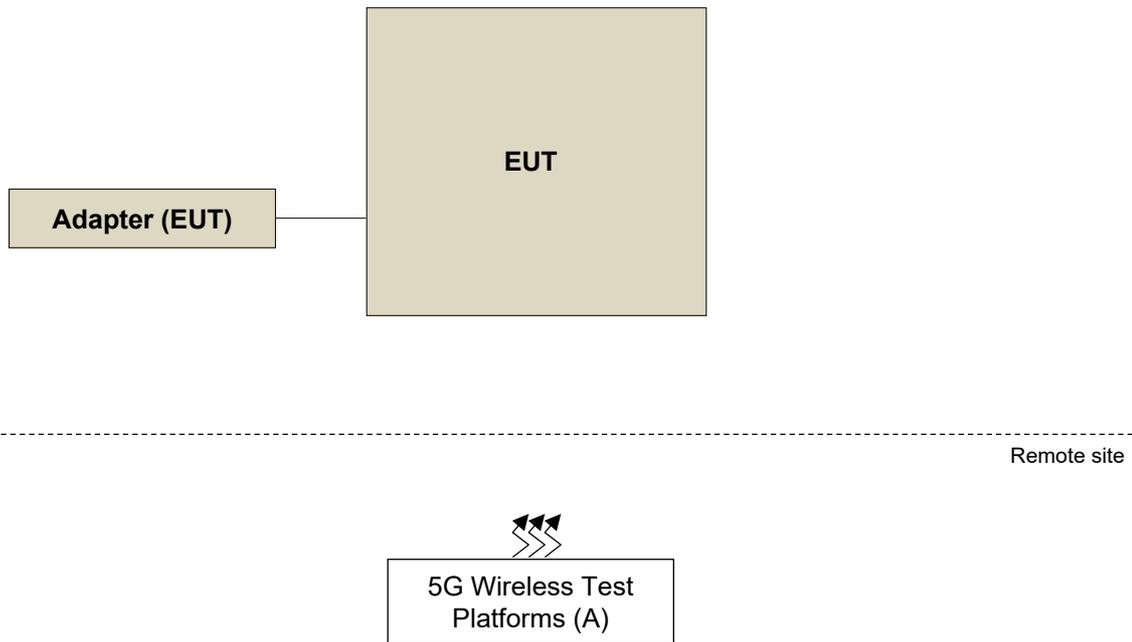
LTE Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
LTE B2	1850 ~ 1910		-1.887	-1.394						-2.89579	-1.804		
LTE B4	1710 ~ 1755		-2.884	-3.228						-3.13552	-1.706		
LTE B5	824 ~ 849	-1.891		-4.526									
LTE B7	2500 ~ 2570		0.185	-0.657						-0.50837	-1.117		
LTE B12	698 ~ 716	-2.135		-4.343									
LTE B13	777 ~ 787	-4.37		-8.13									
LTE B14	788 ~ 798	-4.37		-7.931									
LTE B17	704 ~ 716	-2.135		-4.343									
LTE B25	1850 ~ 1915		-1.887	-1.394						-2.89579			
LTE B26	814 ~ 849	-1.891		-4.526									
LTE B30	2305 ~ 2315		-1.326	-2.669						-1.28433			
LTE B66	1710 ~ 1780		-2.884	-2.478						-3.0668	-1.685		
LTE B71	663 ~ 698	-5.741		-7.388									
T-LTE B38	2570 ~ 2620		0.724	-0.912						-0.59557			
T-LTE B40	2300 ~ 2400		-1.326	-2.669						-1.28433			
T-LTE B41	2496 ~ 2690		1.143	-0.657						-0.59557			
T-LTE B42	3400 ~ 3600						0.313		0.5277			-2.493	-0.35195
T-LTE B43	3600 ~ 3800						-0.434		0.5277			-0.477	-0.161
T-LTE B48	3550 ~ 3700						-0.434		0.5277			-0.477	-0.161
5G FR1 Band													
Band	Freq. Range (MHz)	Gain (dBi)											
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 4	Ant. 5	Ant. 6	Ant. 7	Ant. 8	Ant. 9	Ant. 10	Ant. 11
n2	1850 ~ 1910		-1.887	-1.394						-2.89579	-1.804		
n5	824 ~ 849	-1.891		-4.526									
n7	2500 ~ 2570		0.185	-0.657						-0.50837	-1.117		
n12	699 ~ 716	-2.135		-4.343									
n13	777 ~ 787	-4.37		-8.13									
n14	788 ~ 798	-4.37		-7.931									
n25	1850 ~ 1915		-1.887	-1.394						-2.89579	-1.627		
n26	814 ~ 849	-1.891		-4.526									
n30	2305 ~ 2315		-1.326	-2.669						-1.28433			
n38	2570 ~ 2620		0.724	-0.912						-0.59557	-1.3		
n41	2496 ~ 2690		1.143	-0.657						-0.59557	-0.076		
n66	1710 ~ 1780		-2.884	-2.478						-3.0668	-1.685		
n71	663 ~ 698	-5.741		-7.388									
n77	3300 ~ 4200						0.313		0.5277			2.017	0.19902
n78	3300 ~ 3800						0.313		0.5277			2.017	-0.161

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3. The EUT supports the following ENDC configuration.

5GNR	FCC 5G FR1			ENDC
	Band	SCS	Bandwidth (MHz)	
	n2	15kHz	5/10/15/20	Band 5/12/13/14/30/66
	n5	15kHz	5/10/15/20	Band 2/7/12/30/48/66
	n7	15kHz	5/10/15/20/25/30/40	Band 2/5/12/13/66
	n12	15kHz	5/10/15	Band 2/66
	n14	15kHz	5/10	Band 2
	n25	15kHz	5/10/15/20/25/30/40	Band 12/66
	n30	15kHz	5/10	Band 2/5/66
	n38	30kHz	20/30/40	Band 2/4/5/12/66/71
	n41	30kHz	20/30/40/50/60/80/90/100	Band 2/4/12/25/26/66
	n66	15kHz	5/10/15/20/30/40	Band 2/5/7/12/13/14/30/48/71
	n71	15kHz	5/10/15/20	Band 2/7/66
	n77	30kHz	20/30/40/50/60/70/80/90/100	Band 7/41
	n78	30kHz	20/30/40/50/60/70/80/90/100	Band 2/4/5/7/12/13/38/66/71

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	5G Wireless Test Platforms	Keysight	E7515B	MY58300759	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	Radiated Emission
n41	Y-plane
LTE Band 2	Y-plane
LTE Band 4	Y-plane
LTE Band 12	Y-plane
LTE Band 25	Y-plane
LTE Band 26	Y-plane
LTE Band 66	Y-plane

n41

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 26 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 13 RB Offset 25 RB / 26 RB Offset 50 RB / 0 RB Offset
		502200 to 534996	502200 (2511.00MHz), 518598 (2592.99MHz), 534996 (2674.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 39 RB Offset 1 RB / 76 RB Offset 36 RB / 0 RB Offset 36 RB / 21 RB Offset 36 RB / 42 RB Offset 75 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 53 RB Offset 1 RB / 104 RB Offset 50 RB / 0 RB Offset 50 RB / 28 RB Offset 50 RB / 56 RB Offset 100 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 67 RB Offset 1 RB / 131 RB Offset 64 RB / 0 RB Offset 64 RB / 35 RB Offset 64 RB / 69 RB Offset 128 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 81 RB Offset 1 RB / 160 RB Offset 81 RB / 0 RB Offset 81 RB / 41 RB Offset 81 RB / 81 RB Offset 162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 109 RB Offset 1 RB / 215 RB Offset 108 RB / 0 RB Offset 108 RB / 55 RB Offset 108 RB / 109 RB Offset 216 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 123 RB Offset 1 RB / 243 RB Offset 120 RB / 0 RB Offset 120 RB / 63 RB Offset 120 RB / 125 RB Offset 243 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	EIRP	509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset 1 RB / 137 RB Offset 1 RB / 271 RB Offset 135 RB / 0 RB Offset 135 RB / 69 RB Offset 135 RB / 138 RB Offset 270 RB / 0 RB Offset
-	Modulation Characteristics	509202 to 528000	518598 (2592.99MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset
-	Frequency Stability	501204 to 535998	501204 (2506.02MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	51 RB / 0 RB Offset
		502200 to 534996	502200 (2511.00MHz), 534996 (2674.98MHz)	30MHz	QPSK	78 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 534000 (2670.00MHz)	40MHz	QPSK	106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 532998 (2664.99MHz)	50MHz	QPSK	133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 531996 (2659.98MHz)	60MHz	QPSK	162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 528000 (2640.00MHz)	100MHz	QPSK	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Emission Bandwidth	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	51 RB / 0 RB Offset
		502200 to 534996	502200 (2511.00MHz), 518598 (2592.99MHz), 534996 (2674.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	78 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Out-of-Band Emissions	501204 to 535998	501204 (2506.02MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 50 RB Offset 51 RB / 0 RB Offset
		502200 to 534996	502200 (2511.00MHz), 534996 (2674.98MHz)	30MHz	QPSK	1 RB / 0 RB Offset 1 RB / 77 RB Offset 78 RB / 0 RB Offset
		503202 to 534000	503202 (2516.01MHz), 534000 (2670.00MHz)	40MHz	QPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
		504204 to 532998	504204 (2521.02MHz), 532998 (2664.99MHz)	50MHz	QPSK	1 RB / 0 RB Offset 1 RB / 132 RB Offset 133 RB / 0 RB Offset
		505200 to 531996	505200 (2526.00MHz), 531996 (2659.98MHz)	60MHz	QPSK	1 RB / 0 RB Offset 1 RB / 161 RB Offset 162 RB / 0 RB Offset
		507204 to 529998	507204 (2536.02MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 216 RB Offset 217 RB / 0 RB Offset
		508200 to 528996	508200 (2541.00MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 0 RB Offset 1 RB / 244 RB Offset 245 RB / 0 RB Offset
		509202 to 528000	509202 (2546.01MHz), 528000 (2640.00MHz)	100MHz	QPSK	1 RB / 0 RB Offset 1 RB / 272 RB Offset 273 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Peak to Average Ratio	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		502200 to 534996	502200 (2511.00MHz), 518598 (2592.99MHz), 534996 (2674.98MHz)	30MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	$\pi/2$ BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB / 1 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 1 RB Offset
		502200 to 534996	502200 (2511.00MHz), 518598 (2592.99MHz), 534996 (2674.98MHz)	30MHz	QPSK	1 RB / 1 RB Offset
		503202 to 534000	503202 (2516.01MHz), 518598 (2592.99MHz), 534000 (2670.00MHz)	40MHz	QPSK	1 RB / 1 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		505200 to 531996	505200 (2526.00MHz), 518598 (2592.99MHz), 531996 (2659.98MHz)	60MHz	QPSK	1 RB / 1 RB Offset
		507204 to 529998	507204 (2536.02MHz), 518598 (2592.99MHz), 529998 (2649.99MHz)	80MHz	$\pi/2$ BPSK	1 RB / 1 RB Offset
		508200 to 528996	508200 (2541.00MHz), 518598 (2592.99MHz), 528996 (2644.98MHz)	90MHz	$\pi/2$ BPSK	1 RB / 1 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Below 1GHz	504204 to 532998	504204 (2521.02MHz)	50MHz	QPSK	1 RB / 1 RB Offset
-	Radiated Emission Above 1GHz	501204 to 535998	501204 (2506.02MHz), 518598 (2592.99MHz), 535998 (2679.99MHz)	20MHz	$\pi/2$ BPSK	1 RB / 1 RB Offset
		504204 to 532998	504204 (2521.02MHz), 518598 (2592.99MHz), 532998 (2664.99MHz)	50MHz	QPSK	1 RB / 1 RB Offset
		509202 to 528000	509202 (2546.01MHz), 518598 (2592.99MHz), 528000 (2640.00MHz)	100MHz	QPSK	1 RB / 1 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 38.521-1 Section 6.5.3.1.4, choose the lowest, mid and highest channel bandwidth for final test.
3. Only output power, modulation characteristics, occupied bandwidth and Peak to average ratio items had been tested under $\pi/2$ BPSK, QPSK, 16QAM, 64QAM and 256QAM modes, the other test items were performed under worse mode according to the maximum output power.

LTE Band 2

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		18650 to 19150	18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	18625 to 19175	19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	18607 to 19193	18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		19965 to 20385	19965 (1711.5MHz), 20175 (1732.5MHz), 20385 (1753.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		20000 to 20350	20000 (1715.0MHz), 20175 (1732.5MHz), 20350 (1750.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		20025 to 20325	20025 (1717.5MHz), 20175 (1732.5MHz), 20325 (1747.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	20050 to 20300	20300 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	19957 to 20393	19957 (1710.7MHz), 20175 (1732.5MHz), 20393 (1754.3MHz)	1.4MHz	QPSK	3 RB / 0 RB Offset
		19975 to 20375	19975 (1712.5MHz), 20175 (1732.5MHz), 20375 (1752.5MHz)	5MHz	QPSK	1 RB / 24 RB Offset
		20050 to 20300	20050 (1720.0MHz), 20175 (1732.5MHz), 20300 (1745.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 12

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		23025 to 23165	23025 (700.5MHz), 23095 (707.5MHz), 23165 (714.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0 MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	23060 to 23130	23095 (707.5MHz)	10MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	23017 to 23173	23017 (699.7MHz), 23095 (707.5MHz), 23173 (715.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035 (701.5MHz), 23095 (707.5MHz), 23155 (713.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060 (704.0MHz), 23095 (707.5MHz), 23130 (711.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 25

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		26055 to 26675	26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		26090 to 26640	26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		26115 to 26615	26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	26065 to 26665	26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26047 to 26683	26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 26 (For FCC Part 22)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	26797 to 27033	26797 (824.7MHz), 26915 (836.5MHz), 27033 (848.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		26805 to 27025	26805 (825.5MHz), 26915 (836.5MHz), 27025 (847.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		26815 to 27015	26815 (826.5MHz), 26915 (836.5MHz), 27015 (846.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		26840 to 26990	26840 (829.0MHz), 26915 (836.5MHz), 26990 (844.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		26865 to 26965	26865 (831.5MHz), 26915 (836.5MHz), 26965 (841.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	26797 to 27033	27033 (848.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26797 to 27033	26797 (824.7MHz), 26915 (836.5MHz), 27033 (848.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26815 to 27015	26815 (826.5MHz), 26915 (836.5MHz), 27015 (846.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26865 to 26965	26865 (831.5MHz), 26915 (836.5MHz), 26965 (841.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 26 (For FCC Part 90)

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697 (814.7MHz), 26740 (819.0MHz), 26783 (823.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		26705 to 26775	26705 (815.5MHz), 26740 (819.0MHz), 26775 (822.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		26715 to 26765	26715 (816.5MHz), 26740 (819.0MHz), 26765 (821.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		26740	26740 (819.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	26697 to 26783	26697 (814.7MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	26697 to 26783	26697 (814.7MHz), 26740 (819.0MHz), 26783 (823.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715 (816.5MHz), 26740 (819.0MHz), 26765 (821.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740 (819.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

LTE Band 66

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		131987 to 132657	131987 (1711.5MHz), 132322 (1745.0MHz), 132657 (1778.5MHz)	3MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		132022 to 132622	132022 (1715.0MHz), 132322 (1745.0MHz), 132622 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		132047 to 132597	132047 (1717.5MHz), 132322 (1745.0MHz), 132597 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM / 256QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission Below 1GHz	131979 to 132665	132322 (1745.0MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	131979 to 132665	131979 (1710.7MHz), 132322 (1745.0MHz), 132665 (1779.3MHz)	1.4MHz	QPSK	1 RB / 0 RB Offset
		131997 to 132647	131997 (1712.5MHz), 132322 (1745.0MHz), 132647 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		132072 to 132572	132072 (1720.0MHz), 132322 (1745.0MHz), 132572 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Note:

1. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
2. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.
3. The output power for QPSK, 16QAM, 64QAM and 256QAM, measured value of QPSK is higher than 16QAM, 64QAM and 256QAM mode. Therefore the radiated emission test items was performed under QPSK mode only.

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

FCC 47 CFR Part 24

FCC 47 CFR Part 27

FCC 47 CFR Part 90

ANSI/TIA/EIA-603-D-2010

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

KDB 971168 D02 Misc Rev Approv License Devices v02r01

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

For n41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For LTE Band 2, LTE Band 25:

Mobile / Portable station are limited to 2 watts e.i.r.p.

For LTE Band 4, LTE Band 66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

For LTE Band 12:

Control and mobile stations in the 698-746 MHz, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 30 watts ERP.

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, 746-757 MHz, 787-788 MHz and 805-806 MHz band are limited to 3 watts ERP.

For LTE Band 26 (For FCC Part 22):

Mobile / Portable station are limited to 7 watts e.r.p.

For LTE Band 26 (For FCC Part 90):

The output power shall be according to the specific rule Part 90.635 that "Mobile station are limited to 100 watts e.r.p".

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with 5GNR and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

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

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	1	26.09	26.15	25.78
		1	137	25.97	26.02	25.72
		1	271	26.01	25.98	25.73
		135	0	25.35	25.57	25.24
		135	69	26.05	26.05	25.75
		135	138	25.31	25.53	25.35
		270	0	25.39	25.63	25.41
100M	QPSK	1	1	26.12	26.23	25.85
		1	137	26.05	26.07	25.76
		1	271	26.07	26.02	25.82
		135	0	24.93	25.10	24.82
		135	69	26.09	26.11	25.82
		135	138	24.91	25.13	24.91
		270	0	24.98	25.18	24.92
100M	16QAM	1	1	25.07	25.15	24.71
100M	64QAM	1	1	23.38	23.49	23.12
100M	256QAM	1	1	21.49	21.40	21.14
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	1	26.08	26.11	25.77
		1	123	25.87	25.99	25.72
		1	243	25.99	25.93	25.71
		120	0	25.35	25.53	25.22
		120	63	25.95	26.04	25.75
		120	125	25.31	25.46	25.32
		243	0	25.37	25.62	25.39
90M	QPSK	1	1	26.03	26.10	25.71
		1	123	25.88	25.97	25.70
		1	243	25.96	25.96	25.65
		120	0	24.79	25.02	24.71
		120	63	25.95	26.05	25.74
		120	125	24.74	24.93	24.84
		243	0	24.84	25.11	24.90
90M	16QAM	1	1	25.03	25.06	24.75
90M	64QAM	1	1	23.46	23.43	23.19
90M	256QAM	1	1	21.50	21.41	21.14

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	1	26.08	26.08	25.77
		1	109	25.87	25.95	25.70
		1	215	26.00	25.94	25.72
		108	0	25.25	25.50	25.19
		108	55	26.01	26.03	25.65
		108	109	25.26	25.43	25.31
		216	0	25.39	25.60	25.37
80M	QPSK	1	1	26.06	26.06	25.76
		1	109	25.96	25.99	25.66
		1	215	25.97	25.97	25.72
		108	0	24.75	24.98	24.65
		108	55	26.00	25.96	25.71
		108	109	24.77	25.00	24.76
		216	0	24.80	25.05	24.88
80M	16QAM	1	1	25.02	25.06	24.73
80M	64QAM	1	1	23.45	23.43	23.17
80M	256QAM	1	1	21.42	21.43	21.19
BW	MCS Index	Channel	505200	518598	531996	
		Frequency (MHz)	2526	2592.99	2659.98	
60M	$\pi/2$ BPSK	1	1	26.07	26.15	25.75
		1	81	25.90	26.02	25.69
		1	160	26.00	25.88	25.64
		81	0	25.33	25.51	25.19
		81	41	26.03	25.96	25.69
		81	81	25.21	25.51	25.29
		162	0	25.36	25.53	25.36
60M	QPSK	1	1	26.07	26.15	25.69
		1	81	25.94	26.02	25.66
		1	160	25.91	25.93	25.67
		81	0	24.80	25.04	24.67
		81	41	25.97	26.04	25.71
		81	81	24.73	25.00	24.75
		162	0	24.82	25.04	24.86
60M	16QAM	1	1	25.05	25.15	24.70
60M	64QAM	1	1	23.47	23.46	23.22
60M	256QAM	1	1	21.48	21.38	21.21

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	1	26.00	26.07	25.70
		1	67	25.92	26.00	25.64
		1	131	26.00	25.96	25.71
		64	0	25.25	25.53	25.20
		64	35	26.05	25.99	25.74
		64	69	25.31	25.49	25.29
		128	0	25.34	25.57	25.39
50M	QPSK	1	1	26.07	26.05	25.75
		1	67	25.97	25.98	25.63
		1	131	25.94	25.98	25.68
		64	0	24.83	25.06	24.66
		64	35	25.98	26.04	25.67
		64	69	24.78	25.03	24.83
		128	0	24.88	25.07	24.91
50M	16QAM	1	1	25.07	25.14	24.74
50M	64QAM	1	1	23.44	23.49	23.16
50M	256QAM	1	1	21.48	21.41	21.19
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	1	26.05	26.06	25.68
		1	53	25.96	25.96	25.63
		1	104	25.93	25.96	25.72
		50	0	25.29	25.54	25.21
		50	28	26.04	25.97	25.73
		50	56	25.23	25.45	25.27
		100	0	25.31	25.54	25.39
40M	QPSK	1	1	26.07	26.15	25.71
		1	53	25.91	26.02	25.67
		1	104	25.99	25.88	25.65
		50	0	24.75	25.00	24.71
		50	28	25.98	26.04	25.72
		50	56	24.71	24.94	24.75
		100	0	24.85	25.03	24.83
40M	16QAM	1	1	25.03	25.05	24.75
40M	64QAM	1	1	23.40	23.47	23.17
40M	256QAM	1	1	21.41	21.40	21.15

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		502200	518598	534996
		Frequency (MHz)		2511	2592.99	2674.98
30M	$\pi/2$ BPSK	1	1	25.99	25.97	25.61
		1	39	25.95	25.96	25.61
		1	76	25.92	25.93	25.63
		36	0	25.23	25.53	25.21
		36	21	26.04	25.87	25.71
		36	42	25.22	25.40	25.18
		75	0	25.26	25.48	25.39
30M	QPSK	1	1	25.97	26.15	25.63
		1	39	25.87	25.99	25.59
		1	76	25.97	25.83	25.56
		36	0	24.65	25.00	24.66
		36	21	25.88	25.94	25.62
		36	42	24.65	24.89	24.67
		75	0	24.82	25.01	24.76
30M	16QAM	1	1	24.96	24.95	24.71
30M	64QAM	1	1	23.38	23.44	23.16
30M	256QAM	1	1	21.33	21.32	21.11
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
20M	$\pi/2$ BPSK	1	1	26.02	26.08	25.71
		1	26	25.92	25.96	25.72
		1	49	25.98	25.89	25.65
		25	0	25.27	25.51	25.18
		25	13	26.05	26.05	25.70
		25	26	25.31	25.50	25.29
		50	0	25.37	25.55	25.39
20M	QPSK	1	1	26.02	26.07	25.68
		1	26	25.87	25.95	25.71
		1	49	25.92	25.91	25.71
		25	0	24.82	25.05	24.73
		25	13	26.01	26.03	25.68
		25	26	24.74	25.00	24.81
		50	0	24.86	25.07	24.88
20M	16QAM	1	1	25.08	25.15	24.73
20M	64QAM	1	1	23.41	23.51	23.13
20M	256QAM	1	1	21.47	21.47	21.21

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.83	23.76	23.68
		1	50	23.57	23.60	23.68
		1	99	23.65	23.71	23.66
		50	0	22.70	22.58	22.83
		50	25	22.59	22.59	22.66
		50	50	22.62	22.37	22.71
		100	0	22.83	22.43	22.77
20M	16QAM	1	0	22.75	22.86	22.87
		1	50	22.52	22.58	22.70
		1	99	22.43	22.71	22.64
		50	0	21.39	21.64	21.67
		50	25	21.66	21.61	21.42
		50	50	21.40	21.59	21.44
		100	0	21.65	21.33	21.52
20M	64QAM	1	0	21.76	21.83	21.47
		1	50	21.65	21.45	21.71
		1	99	21.63	21.69	21.62
		50	0	20.76	20.79	20.65
		50	25	20.42	20.64	20.52
		50	50	20.45	20.56	20.67
		100	0	20.67	20.61	20.54
20M	256QAM	1	0	18.67	18.34	18.16
		1	50	18.22	18.45	18.16
		1	99	18.13	17.99	17.96
		50	0	18.00	18.09	18.20
		50	25	18.36	18.16	18.42
		50	50	18.48	18.12	18.05
		100	0	18.31	18.30	18.12

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	23.77	23.70	23.71
		1	37	23.75	23.59	23.55
		1	74	23.40	23.59	23.47
		36	0	22.74	22.58	22.68
		36	19	22.61	22.59	22.65
		36	39	22.55	22.37	22.67
		75	0	22.53	22.62	22.58
15M	16QAM	1	0	22.60	22.77	22.53
		1	37	22.47	22.58	22.56
		1	74	22.41	22.66	22.61
		36	0	21.35	21.58	21.48
		36	19	21.50	21.47	21.30
		36	39	21.42	21.58	21.47
		75	0	21.48	21.57	21.55
15M	64QAM	1	0	21.50	21.53	21.50
		1	37	21.49	21.59	21.58
		1	74	21.52	21.58	21.61
		36	0	20.42	20.54	20.39
		36	19	20.59	20.27	20.29
		36	39	20.46	20.34	20.39
		75	0	20.53	20.68	20.62
15M	256QAM	1	0	18.31	18.01	18.56
		1	37	18.32	18.04	18.24
		1	74	18.19	18.03	18.36
		36	0	17.30	17.25	17.37
		36	19	17.08	17.10	17.26
		36	39	17.19	17.45	17.28
		75	0	17.02	17.00	17.08

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.50	23.76	23.42
		1	24	23.55	23.49	23.32
		1	49	23.57	23.44	23.49
		25	0	22.63	22.61	22.56
		25	12	22.64	22.25	22.67
		25	25	22.41	22.60	22.53
		50	0	22.32	22.38	22.36
10M	16QAM	1	0	22.57	22.58	22.45
		1	24	22.33	22.54	22.62
		1	49	22.68	22.36	22.49
		25	0	21.49	21.48	21.42
		25	12	21.31	21.22	21.29
		25	25	21.58	21.33	21.44
		50	0	21.38	21.42	21.34
10M	64QAM	1	0	21.62	21.58	21.49
		1	24	21.51	21.43	21.30
		1	49	21.62	21.20	21.31
		25	0	20.38	20.36	20.53
		25	12	20.27	20.47	20.54
		25	25	20.53	20.61	20.34
		50	0	20.70	20.49	20.53
10M	256QAM	1	0	18.28	18.40	18.38
		1	24	17.99	17.86	18.13
		1	49	18.07	18.23	18.02
		25	0	17.14	17.17	17.13
		25	12	16.92	17.32	17.13
		25	25	17.30	17.37	17.16
		50	0	17.09	17.01	17.30

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	23.61	23.65	23.46
		1	12	23.38	23.51	23.39
		1	24	23.57	23.25	23.22
		12	0	22.53	22.60	22.66
		12	6	22.34	22.24	22.58
		12	13	22.53	22.38	22.21
		25	0	22.48	22.58	22.52
5M	16QAM	1	0	22.54	22.63	22.59
		1	12	22.51	22.65	22.33
		1	24	22.44	22.64	22.40
		12	0	21.34	21.38	21.57
		12	6	21.56	21.33	21.48
		12	13	21.54	21.53	21.33
		25	0	21.34	21.22	21.55
5M	64QAM	1	0	21.39	21.51	21.55
		1	12	21.75	21.51	21.35
		1	24	21.39	21.53	21.36
		12	0	20.46	20.27	20.43
		12	6	20.53	20.25	20.28
		12	13	20.34	20.19	20.41
		25	0	20.60	20.53	20.34
5M	256QAM	1	0	18.17	18.31	18.22
		1	12	17.80	18.35	17.92
		1	24	18.34	18.04	18.00
		12	0	17.16	17.22	17.31
		12	6	17.29	16.88	17.24
		12	13	17.07	16.93	16.92
		25	0	17.35	17.21	17.16

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	23.51	23.35	23.65
		1	7	23.44	23.46	23.34
		1	14	23.55	23.43	23.60
		8	0	22.79	22.42	22.55
		8	3	22.59	22.52	22.72
		8	7	22.53	22.57	22.48
		15	0	22.44	22.40	22.61
3M	16QAM	1	0	22.65	22.56	22.63
		1	7	22.76	22.68	22.38
		1	14	22.66	22.58	22.60
		8	0	21.56	21.62	21.36
		8	3	21.24	21.24	21.26
		8	7	21.39	21.17	21.42
		15	0	21.39	21.36	21.21
3M	64QAM	1	0	21.54	21.41	21.61
		1	7	21.53	21.52	21.55
		1	14	21.29	21.28	21.36
		8	0	20.46	20.40	20.37
		8	3	20.35	20.54	20.42
		8	7	20.49	20.41	20.42
		15	0	20.56	20.40	20.33
3M	256QAM	1	0	18.35	18.19	18.08
		1	7	18.08	17.91	17.95
		1	14	18.20	18.11	18.08
		8	0	17.33	17.03	17.11
		8	3	17.35	16.84	17.31
		8	7	17.53	17.04	17.35
		15	0	17.44	17.00	17.20

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	23.64	23.29	23.57
		1	2	23.44	23.62	23.58
		1	5	23.64	23.29	23.33
		3	0	23.62	23.39	23.45
		3	1	23.58	23.52	23.55
		3	3	23.51	23.40	23.34
		6	0	22.34	22.35	22.54
1.4M	16QAM	1	0	22.64	22.64	22.55
		1	2	22.35	22.37	22.40
		1	5	22.58	22.57	22.33
		3	0	22.58	22.36	22.46
		3	1	22.45	22.57	22.36
		3	3	22.19	22.46	22.59
		6	0	21.49	21.30	21.26
1.4M	64QAM	1	0	21.48	21.30	21.68
		1	2	21.27	21.49	21.51
		1	5	21.47	21.53	21.41
		3	0	21.42	21.50	21.33
		3	1	21.65	21.29	21.32
		3	3	21.32	21.29	21.36
		6	0	20.55	20.65	20.37
1.4M	256QAM	1	0	18.02	17.97	18.27
		1	2	18.26	18.07	18.26
		1	5	18.09	18.13	18.08
		3	0	18.11	18.25	18.40
		3	1	18.17	18.15	18.20
		3	3	18.21	18.16	17.97
		6	0	17.20	17.24	17.01

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	23.70	23.63	23.85
		1	50	23.38	23.67	23.63
		1	99	23.35	23.40	23.72
		50	0	22.57	22.75	22.77
		50	25	22.49	22.64	22.57
		50	50	22.43	22.67	22.59
		100	0	22.71	22.79	22.56
20M	16QAM	1	0	22.62	22.74	22.76
		1	50	22.59	22.82	22.70
		1	99	22.60	22.64	22.83
		50	0	21.66	21.81	21.75
		50	25	21.66	21.62	21.90
		50	50	21.46	21.62	21.63
		100	0	21.65	21.69	21.63
20M	64QAM	1	0	21.87	21.71	21.65
		1	50	21.77	21.72	21.68
		1	99	21.45	21.62	21.62
		50	0	20.87	20.79	20.67
		50	25	20.83	20.71	20.90
		50	50	20.71	20.63	20.57
		100	0	20.72	20.70	20.84
20M	256QAM	1	0	18.39	18.07	18.15
		1	50	17.99	18.31	18.30
		1	99	17.99	18.32	18.03
		50	0	17.35	17.45	17.37
		50	25	17.18	17.38	17.30
		50	50	17.14	17.02	17.51
		100	0	17.34	17.46	17.49

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	23.72	23.47	23.78
		1	37	23.44	23.58	23.73
		1	74	23.35	23.56	23.69
		36	0	22.62	22.61	22.79
		36	19	22.45	22.48	22.71
		36	39	22.60	22.52	22.64
		75	0	22.59	22.45	22.61
15M	16QAM	1	0	22.63	22.58	22.78
		1	37	22.56	22.64	22.72
		1	74	22.42	22.75	22.89
		36	0	21.45	21.68	21.47
		36	19	21.43	21.57	21.67
		36	39	21.55	21.71	21.61
		75	0	21.35	21.51	21.91
15M	64QAM	1	0	21.62	21.61	21.81
		1	37	21.71	21.56	21.78
		1	74	21.64	21.74	21.60
		36	0	20.53	20.71	20.47
		36	19	20.74	20.50	20.63
		36	39	20.58	20.50	20.52
		75	0	20.69	20.67	20.53
15M	256QAM	1	0	18.39	18.46	18.55
		1	37	17.83	17.97	18.47
		1	74	17.84	18.17	18.17
		36	0	16.98	17.52	17.21
		36	19	17.55	17.36	17.18
		36	39	17.40	17.11	17.29
		75	0	16.99	17.20	17.37

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	23.44	23.66	23.58
		1	24	23.49	23.66	23.55
		1	49	23.17	23.36	23.50
		25	0	22.32	22.57	22.65
		25	12	22.59	22.35	22.60
		25	25	22.42	22.35	22.47
		50	0	22.30	22.62	22.66
10M	16QAM	1	0	22.59	22.62	22.39
		1	24	22.36	22.68	22.75
		1	49	22.69	22.45	22.41
		25	0	21.73	21.68	21.75
		25	12	21.45	21.59	21.62
		25	25	21.50	21.68	21.38
		50	0	21.49	21.34	21.68
10M	64QAM	1	0	21.46	21.47	21.52
		1	24	21.55	21.71	21.73
		1	49	21.53	21.64	21.34
		25	0	20.51	20.81	20.71
		25	12	20.33	20.41	20.78
		25	25	20.66	20.66	20.51
		50	0	20.54	20.56	20.89
10M	256QAM	1	0	18.12	18.00	18.20
		1	24	18.10	18.26	18.44
		1	49	17.95	18.34	18.43
		25	0	17.13	16.91	17.28
		25	12	17.23	16.87	17.28
		25	25	16.87	17.24	17.33
		50	0	17.18	17.17	17.01

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	23.42	23.42	23.61
		1	12	23.40	23.57	23.53
		1	24	23.48	23.14	23.55
		12	0	22.43	22.52	22.53
		12	6	22.73	22.36	22.48
		12	13	22.45	22.46	22.42
		25	0	22.20	22.45	22.39
5M	16QAM	1	0	22.68	22.51	22.62
		1	12	22.65	22.36	22.74
		1	24	22.57	22.58	22.55
		12	0	21.54	21.57	21.48
		12	6	21.48	21.54	21.69
		12	13	21.42	21.67	21.43
		25	0	21.33	21.62	21.81
5M	64QAM	1	0	21.58	21.77	21.80
		1	12	21.61	21.51	21.68
		1	24	21.60	21.51	21.56
		12	0	20.63	20.64	20.57
		12	6	20.37	20.73	20.48
		12	13	20.63	20.56	20.58
		25	0	20.37	20.32	20.74
5M	256QAM	1	0	18.26	18.06	17.93
		1	12	17.72	18.30	18.08
		1	24	18.03	18.12	18.29
		12	0	17.02	16.87	17.35
		12	6	16.95	17.25	17.13
		12	13	16.83	17.18	17.39
		25	0	16.93	17.03	17.19

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	23.59	23.69	23.53
		1	7	23.53	23.30	23.45
		1	14	23.32	23.38	23.65
		8	0	22.53	22.76	22.54
		8	3	22.41	22.43	22.53
		8	7	22.57	22.62	22.53
		15	0	22.35	22.37	22.76
3M	16QAM	1	0	22.66	22.68	22.59
		1	7	22.35	22.43	22.66
		1	14	22.42	22.54	22.50
		8	0	21.43	21.63	21.50
		8	3	21.52	21.52	21.71
		8	7	21.40	21.64	21.62
		15	0	21.58	21.67	21.61
3M	64QAM	1	0	21.78	21.57	21.59
		1	7	21.87	21.52	21.70
		1	14	21.46	21.46	21.51
		8	0	20.63	20.61	20.54
		8	3	20.56	20.52	20.79
		8	7	20.41	20.58	20.55
		15	0	20.44	20.49	20.43
3M	256QAM	1	0	17.89	18.45	18.24
		1	7	18.00	18.19	18.34
		1	14	17.95	18.19	18.09
		8	0	17.18	17.07	17.04
		8	3	17.28	16.96	17.03
		8	7	17.17	16.99	17.19
		15	0	16.97	17.27	17.32

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	23.59	23.40	23.64
		1	2	23.46	23.60	23.59
		1	5	23.18	23.43	23.55
		3	0	23.50	23.55	23.75
		3	1	23.54	23.60	23.61
		3	3	23.39	23.54	23.69
		6	0	22.53	22.51	22.64
1.4M	16QAM	1	0	22.36	22.46	22.51
		1	2	22.30	22.49	22.76
		1	5	22.60	22.35	22.57
		3	0	22.39	22.58	22.49
		3	1	22.37	22.61	22.64
		3	3	22.62	22.67	22.56
		6	0	21.45	21.40	21.73
1.4M	64QAM	1	0	21.35	21.80	21.73
		1	2	21.59	21.62	21.48
		1	5	21.51	21.62	21.62
		3	0	21.61	21.69	21.45
		3	1	21.65	21.79	21.60
		3	3	21.44	21.51	21.83
		6	0	20.68	20.45	20.63
1.4M	256QAM	1	0	17.95	17.84	18.07
		1	2	18.20	17.82	18.46
		1	5	17.86	18.19	18.47
		3	0	17.97	18.16	18.04
		3	1	17.82	18.10	18.45
		3	3	18.13	18.16	18.28
		6	0	16.95	17.05	17.17

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	24.59	24.33	24.29
		1	24	24.52	24.27	24.34
		1	49	24.45	24.51	24.18
		25	0	23.77	23.46	23.18
		25	12	23.46	23.42	23.45
		25	25	23.69	23.23	23.34
		50	0	23.79	23.55	23.41
10M	16QAM	1	0	23.60	23.48	23.29
		1	24	23.69	23.15	23.39
		1	49	23.33	23.42	23.38
		25	0	22.64	22.56	22.24
		25	12	22.69	22.56	22.43
		25	25	22.64	22.59	22.32
		50	0	22.59	22.48	22.26
10M	64QAM	1	0	22.85	22.23	22.32
		1	24	22.90	22.42	22.21
		1	49	22.29	21.97	22.02
		25	0	21.49	21.12	21.17
		25	12	21.45	21.08	21.03
		25	25	21.21	21.30	20.97
		50	0	21.28	21.19	21.21
10M	256QAM	1	0	19.60	19.12	19.03
		1	24	19.45	18.72	19.30
		1	49	19.23	19.00	18.82
		25	0	18.22	17.79	17.97
		25	12	18.35	18.32	17.96
		25	25	18.20	18.15	18.01
		50	0	18.31	18.26	17.81

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	24.51	24.43	24.42
		1	12	24.52	24.43	24.37
		1	24	24.57	24.43	24.36
		12	0	23.37	23.49	23.43
		12	6	23.73	23.22	23.24
		12	13	23.41	23.19	23.10
		25	0	23.72	23.38	23.36
5M	16QAM	1	0	23.73	23.50	23.44
		1	12	23.48	23.09	23.21
		1	24	23.53	23.34	23.01
		12	0	22.74	22.28	22.19
		12	6	22.47	22.53	22.19
		12	13	22.80	22.47	22.41
		25	0	22.88	22.22	22.42
5M	64QAM	1	0	22.56	22.47	22.25
		1	12	22.83	22.45	22.29
		1	24	22.24	21.85	21.84
		12	0	21.43	21.15	21.24
		12	6	21.46	21.29	21.08
		12	13	21.44	21.19	20.93
		25	0	21.42	21.01	21.16
5M	256QAM	1	0	19.26	19.08	19.10
		1	12	19.07	19.16	18.83
		1	24	18.84	18.70	18.95
		12	0	18.35	17.92	17.83
		12	6	17.93	18.03	17.76
		12	13	18.28	18.07	17.90
		25	0	18.43	17.96	17.89

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	24.54	24.28	24.30
		1	7	24.51	24.26	24.29
		1	14	24.27	24.10	24.13
		8	0	23.53	23.38	23.23
		8	3	23.56	23.40	23.36
		8	7	23.46	23.21	23.24
		15	0	23.45	23.34	23.26
3M	16QAM	1	0	23.47	23.38	23.29
		1	7	23.45	23.28	23.31
		1	14	23.41	22.96	22.94
		8	0	22.72	22.17	22.10
		8	3	22.55	22.30	22.05
		8	7	22.51	22.37	22.45
		15	0	22.52	22.30	22.17
3M	64QAM	1	0	22.80	22.23	22.34
		1	7	22.48	22.05	22.23
		1	14	22.12	22.07	21.92
		8	0	21.44	20.96	21.32
		8	3	21.08	21.06	21.11
		8	7	21.28	21.10	20.85
		15	0	21.37	21.16	20.90
3M	256QAM	1	0	19.30	18.84	18.92
		1	7	19.40	18.92	18.91
		1	14	19.08	18.89	18.62
		8	0	18.09	17.99	17.88
		8	3	18.25	17.96	17.96
		8	7	18.16	17.64	18.07
		15	0	18.19	18.01	17.70

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	24.44	24.26	24.13
		1	2	24.43	24.21	24.39
		1	5	24.38	24.25	24.15
		3	0	24.46	24.16	24.17
		3	1	24.47	24.37	24.30
		3	3	24.47	24.20	24.09
		6	0	23.56	23.24	23.33
1.4M	16QAM	1	0	23.67	23.42	23.15
		1	2	23.37	23.09	23.34
		1	5	23.16	23.11	22.92
		3	0	23.50	23.39	23.14
		3	1	23.50	23.39	23.14
		3	3	23.51	23.33	23.41
		6	0	22.53	22.41	22.43
1.4M	64QAM	1	0	22.50	22.06	22.40
		1	2	22.61	22.26	22.32
		1	5	22.13	22.19	21.94
		3	0	22.37	22.08	22.19
		3	1	22.49	22.23	21.87
		3	3	22.41	21.93	22.04
		6	0	21.18	20.87	21.12
1.4M	256QAM	1	0	19.29	18.88	18.84
		1	2	19.22	18.93	18.90
		1	5	18.86	19.00	18.84
		3	0	19.16	18.52	18.74
		3	1	19.50	19.04	18.92
		3	3	19.14	19.17	18.51
		6	0	18.25	18.17	18.01

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	23.61	23.62	23.64
		1	50	23.25	23.61	23.24
		1	99	23.28	23.36	23.32
		50	0	22.27	22.40	22.35
		50	25	22.57	22.42	22.47
		50	50	22.27	22.64	22.47
		100	0	22.44	22.66	22.35
20M	16QAM	1	0	22.35	22.42	22.36
		1	50	22.30	22.64	22.43
		1	99	22.20	22.58	22.58
		50	0	21.61	21.77	21.37
		50	25	21.56	21.53	21.45
		50	50	21.44	21.58	21.34
		100	0	21.36	21.58	21.57
20M	64QAM	1	0	21.47	21.39	21.58
		1	50	21.49	21.60	21.61
		1	99	21.16	21.35	21.48
		50	0	20.55	20.53	20.44
		50	25	20.33	20.66	20.37
		50	50	20.55	20.53	20.44
		100	0	20.52	20.45	20.63
20M	256QAM	1	0	18.02	18.31	18.05
		1	50	17.88	17.87	18.26
		1	99	18.02	18.28	17.87
		50	0	17.27	17.19	17.17
		50	25	17.16	17.32	17.32
		50	50	16.94	17.08	17.09
		100	0	16.88	17.20	17.19

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	23.43	23.52	23.60
		1	37	23.26	23.41	23.28
		1	74	23.13	23.47	23.17
		36	0	22.41	22.67	22.48
		36	19	22.47	22.37	22.60
		36	39	22.35	22.50	22.64
		75	0	22.52	22.45	22.40
15M	16QAM	1	0	22.17	22.52	22.37
		1	37	22.32	22.63	22.36
		1	74	22.13	22.43	22.43
		36	0	21.46	21.62	21.62
		36	19	21.30	21.50	21.50
		36	39	21.42	21.65	21.55
		75	0	21.27	21.38	21.56
15M	64QAM	1	0	21.35	21.47	21.60
		1	37	21.49	21.43	21.40
		1	74	21.30	21.42	21.34
		36	0	20.50	20.50	20.39
		36	19	20.35	20.46	20.59
		36	39	20.19	20.31	20.52
		75	0	20.52	20.56	20.40
15M	256QAM	1	0	18.02	17.87	18.42
		1	37	17.65	17.85	17.61
		1	74	17.87	17.92	17.95
		36	0	17.06	17.13	17.29
		36	19	16.80	17.12	17.43
		36	39	17.05	16.91	16.88
		75	0	17.21	17.46	17.32

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	23.32	23.53	23.50
		1	24	23.09	23.48	23.21
		1	49	23.21	23.03	23.26
		25	0	22.45	22.31	22.27
		25	12	22.06	22.28	22.36
		25	25	22.32	22.36	22.34
		50	0	22.45	22.67	22.46
10M	16QAM	1	0	22.21	22.32	22.24
		1	24	22.14	22.48	22.33
		1	49	22.22	22.44	22.32
		25	0	21.31	21.30	21.20
		25	12	21.44	21.28	21.38
		25	25	21.21	21.46	21.44
		50	0	21.34	21.53	21.22
10M	64QAM	1	0	21.28	21.61	21.24
		1	24	21.28	21.65	21.60
		1	49	21.25	21.43	21.35
		25	0	20.48	20.30	20.20
		25	12	20.20	20.47	20.35
		25	25	20.39	20.50	20.22
		50	0	20.12	20.39	20.22
10M	256QAM	1	0	18.20	18.31	17.80
		1	24	17.55	18.27	17.80
		1	49	17.72	17.74	17.92
		25	0	16.80	16.98	17.22
		25	12	17.07	16.90	17.13
		25	25	17.11	17.09	17.05
		50	0	17.07	16.99	16.82

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	23.54	23.53	23.50
		1	12	23.06	23.29	23.02
		1	24	23.35	23.19	23.29
		12	0	22.27	22.37	22.39
		12	6	22.46	22.44	22.43
		12	13	22.14	22.36	22.06
		25	0	22.50	22.24	22.49
5M	16QAM	1	0	22.12	22.44	22.47
		1	12	22.12	22.47	22.41
		1	24	22.17	22.39	22.40
		12	0	21.18	21.51	21.56
		12	6	21.35	21.64	21.65
		12	13	21.39	21.65	21.43
		25	0	21.16	21.25	21.26
5M	64QAM	1	0	21.35	21.34	21.44
		1	12	21.37	21.23	21.32
		1	24	21.13	21.33	21.43
		12	0	20.27	20.39	20.40
		12	6	20.29	20.64	20.28
		12	13	20.12	20.46	20.28
		25	0	20.15	20.48	20.43
5M	256QAM	1	0	18.18	17.90	18.00
		1	12	17.78	18.16	17.68
		1	24	18.04	17.97	17.65
		12	0	17.31	17.19	17.26
		12	6	16.84	16.98	16.73
		12	13	16.68	16.81	17.04
		25	0	16.83	17.31	16.73

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	23.40	23.31	23.25
		1	7	22.98	23.32	23.26
		1	14	23.33	23.39	23.25
		8	0	22.30	22.41	22.51
		8	3	22.24	22.42	22.58
		8	7	22.12	22.51	22.22
		15	0	22.33	22.47	22.43
3M	16QAM	1	0	22.45	22.47	22.53
		1	7	22.30	22.44	22.33
		1	14	22.37	22.27	22.40
		8	0	21.15	21.57	21.40
		8	3	21.49	21.61	21.21
		8	7	21.40	21.46	21.18
		15	0	21.36	21.16	21.33
3M	64QAM	1	0	21.40	21.47	21.38
		1	7	21.39	21.51	21.22
		1	14	21.24	21.20	21.19
		8	0	20.12	20.40	20.41
		8	3	20.16	20.54	20.24
		8	7	20.37	20.32	20.56
		15	0	20.44	20.44	20.38
3M	256QAM	1	0	17.78	17.90	18.08
		1	7	17.64	18.09	17.88
		1	14	17.74	17.69	18.10
		8	0	16.99	17.08	16.87
		8	3	17.12	17.08	17.27
		8	7	17.13	16.70	17.03
		15	0	17.10	17.30	17.15

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	23.35	23.45	23.47
		1	2	23.15	23.45	23.42
		1	5	23.22	23.13	23.34
		3	0	23.36	23.44	23.36
		3	1	23.22	23.32	23.53
		3	3	23.17	23.32	23.15
		6	0	22.51	22.39	22.49
1.4M	16QAM	1	0	22.19	22.29	22.52
		1	2	22.07	22.37	22.43
		1	5	22.10	22.30	22.42
		3	0	22.57	22.34	22.37
		3	1	22.32	22.44	22.46
		3	3	22.36	22.48	22.36
		6	0	21.11	21.23	21.25
1.4M	64QAM	1	0	21.43	21.54	21.53
		1	2	21.24	21.43	21.60
		1	5	20.96	21.11	21.39
		3	0	21.38	21.64	21.55
		3	1	21.09	21.46	21.35
		3	3	21.26	21.45	21.19
		6	0	20.29	20.22	20.35
1.4M	256QAM	1	0	17.99	17.81	18.04
		1	2	17.90	18.18	17.89
		1	5	17.98	18.19	17.62
		3	0	17.91	18.23	17.94
		3	1	17.83	18.29	18.04
		3	3	17.85	18.04	17.57
		6	0	16.98	17.08	17.07

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	24.50	24.45	24.71
		1	37	24.44	24.45	24.65
		1	74	24.35	24.35	24.59
		36	0	23.56	23.48	23.67
		36	19	23.62	23.46	23.56
		36	39	23.53	23.36	23.55
		75	0	23.30	23.35	23.71
15M	16QAM	1	0	23.53	23.28	23.46
		1	37	23.45	23.16	23.70
		1	74	23.39	23.22	23.40
		36	0	22.59	22.57	22.81
		36	19	22.55	22.40	22.75
		36	39	22.41	22.24	22.73
		75	0	22.52	22.51	22.75
15M	64QAM	1	0	22.35	22.51	22.63
		1	37	21.98	22.22	22.17
		1	74	22.00	21.93	22.06
		36	0	21.54	21.18	21.61
		36	19	20.95	21.11	21.44
		36	39	20.91	20.66	20.82
		75	0	20.93	20.58	21.14
15M	256QAM	1	0	18.85	18.82	18.99
		1	37	19.13	18.94	18.96
		1	74	18.83	18.78	19.16
		36	0	17.88	18.06	18.30
		36	19	17.71	17.93	18.48
		36	39	18.14	17.93	17.99
		75	0	18.28	18.17	18.27

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	24.26	24.51	24.60
		1	24	24.30	24.47	24.57
		1	49	24.32	24.29	24.32
		25	0	23.33	23.39	23.76
		25	12	23.37	23.42	23.64
		25	25	23.47	23.31	23.46
		50	0	23.50	23.34	23.48
10M	16QAM	1	0	23.10	23.19	23.40
		1	24	23.37	23.01	23.43
		1	49	23.22	23.13	23.39
		25	0	22.25	22.46	22.56
		25	12	22.39	22.60	22.44
		25	25	22.51	22.31	22.55
		50	0	22.39	22.43	22.56
10M	64QAM	1	0	22.33	22.23	22.55
		1	24	22.16	22.17	22.30
		1	49	21.91	21.95	22.19
		25	0	21.43	21.27	21.41
		25	12	21.09	20.81	21.38
		25	25	20.72	20.46	20.93
		50	0	20.71	20.78	20.92
10M	256QAM	1	0	18.74	18.65	19.17
		1	24	18.99	18.69	19.22
		1	49	18.81	18.96	18.99
		25	0	17.79	17.85	18.44
		25	12	17.82	17.70	18.12
		25	25	18.12	17.84	18.41
		50	0	18.00	17.89	18.12

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	24.28	24.37	24.50
		1	12	24.25	24.23	24.50
		1	24	24.24	24.19	24.48
		12	0	23.21	23.27	23.32
		12	6	23.35	23.30	23.41
		12	13	23.46	23.04	23.34
		25	0	23.29	23.03	23.59
5M	16QAM	1	0	23.22	23.40	23.60
		1	12	23.38	23.19	23.38
		1	24	23.39	23.23	23.38
		12	0	22.24	22.04	22.50
		12	6	22.38	22.42	22.53
		12	13	22.24	22.11	22.52
		25	0	22.43	22.17	22.57
5M	64QAM	1	0	22.10	22.01	22.63
		1	12	21.83	21.82	22.31
		1	24	22.02	21.85	22.06
		12	0	21.43	21.33	21.58
		12	6	20.91	21.03	21.08
		12	13	20.60	20.52	20.99
		25	0	20.73	20.75	20.78
5M	256QAM	1	0	18.88	18.76	18.77
		1	12	18.90	18.52	18.88
		1	24	18.73	18.58	19.16
		12	0	17.90	18.05	18.17
		12	6	17.86	17.57	18.13
		12	13	17.87	17.99	17.74
		25	0	17.94	18.01	17.84

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	24.35	24.45	24.52
		1	7	24.34	24.40	24.50
		1	14	24.35	24.61	24.19
		8	0	23.10	23.54	23.53
		8	3	23.37	23.39	23.35
		8	7	23.33	23.58	23.29
		15	0	22.97	23.75	23.32
3M	16QAM	1	0	23.28	23.46	23.44
		1	7	22.96	23.39	23.49
		1	14	23.22	23.62	23.51
		8	0	22.40	22.72	22.67
		8	3	22.32	22.47	22.70
		8	7	22.15	22.47	22.41
		15	0	22.22	22.65	22.39
3M	64QAM	1	0	22.09	22.58	22.45
		1	7	21.96	22.15	22.41
		1	14	21.82	22.05	22.09
		8	0	21.02	21.59	21.38
		8	3	20.79	21.04	21.26
		8	7	20.25	20.81	20.91
		15	0	20.46	20.76	20.74
3M	256QAM	1	0	18.71	19.07	19.29
		1	7	18.57	19.42	18.72
		1	14	18.83	18.90	19.15
		8	0	17.84	18.16	18.07
		8	3	17.83	17.78	18.03
		8	7	17.83	18.29	18.00
		15	0	18.06	17.90	17.85

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	24.44	24.53	24.58
		1	2	24.41	24.54	24.44
		1	5	24.32	24.36	24.31
		3	0	24.15	24.59	24.56
		3	1	24.21	24.55	24.57
		3	3	24.30	24.69	24.59
		6	0	23.16	23.62	23.67
1.4M	16QAM	1	0	23.11	23.57	23.41
		1	2	22.94	23.35	23.36
		1	5	23.24	23.68	23.42
		3	0	23.26	23.62	23.56
		3	1	23.10	23.30	23.62
		3	3	23.07	23.51	23.23
		6	0	22.35	22.68	22.41
1.4M	64QAM	1	0	22.13	22.54	22.31
		1	2	22.02	22.02	22.24
		1	5	21.99	21.95	22.02
		3	0	22.11	22.39	22.54
		3	1	21.93	22.15	22.34
		3	3	21.25	21.77	21.75
		6	0	20.71	20.73	20.73
1.4M	256QAM	1	0	18.64	19.45	19.30
		1	2	18.73	19.08	18.99
		1	5	18.88	19.06	19.06
		3	0	18.74	19.20	18.92
		3	1	18.51	18.88	18.98
		3	3	18.79	19.03	19.35
		6	0	17.96	17.76	18.30

LTE Band 26 (For FCC Part 90)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	23.59
		1	24	22.99
		1	49	22.88
		25	0	22.52
		25	12	22.75
		25	25	22.46
		50	0	22.76
10M	16QAM	1	0	22.59
		1	24	21.97
		1	49	21.93
		25	0	21.32
		25	12	21.48
		25	25	21.42
		50	0	21.19
10M	64QAM	1	0	20.99
		1	24	21.14
		1	49	20.86
		25	0	20.57
		25	12	20.40
		25	25	19.61
		50	0	19.92
10M	256QAM	1	0	18.37
		1	24	18.32
		1	49	18.36
		25	0	18.01
		25	12	17.98
		25	25	17.78
		50	0	17.97

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	23.45	23.55	23.42
		1	12	23.48	23.41	23.50
		1	24	22.88	23.52	23.01
		12	0	22.47	22.85	22.20
		12	6	22.12	22.28	22.25
		12	13	22.40	21.91	22.08
		25	0	22.36	22.61	22.64
5M	16QAM	1	0	21.92	22.18	22.78
		1	12	22.27	22.74	22.30
		1	24	22.60	22.58	22.13
		12	0	21.20	21.01	21.04
		12	6	21.09	20.91	21.37
		12	13	21.56	21.50	21.74
		25	0	21.64	21.52	21.12
5M	64QAM	1	0	20.98	21.54	21.30
		1	12	20.95	21.29	21.21
		1	24	20.63	20.60	21.28
		12	0	20.25	20.43	20.00
		12	6	20.02	20.39	19.85
		12	13	19.24	19.25	19.86
		25	0	20.09	19.36	19.82
5M	256QAM	1	0	17.64	17.96	18.33
		1	12	18.05	17.60	17.76
		1	24	17.63	18.25	18.20
		12	0	17.62	18.05	17.52
		12	6	17.35	17.45	17.97
		12	13	17.60	17.57	18.08
		25	0	17.66	17.32	18.38

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	22.98	23.53	23.50
		1	7	22.93	23.19	22.85
		1	14	23.33	22.96	23.41
		8	0	22.19	21.97	22.81
		8	3	22.08	22.31	22.82
		8	7	22.56	22.27	22.38
		15	0	22.54	22.49	22.33
3M	16QAM	1	0	22.04	22.04	22.10
		1	7	22.13	22.19	21.78
		1	14	22.16	22.02	22.39
		8	0	21.57	21.39	21.43
		8	3	21.17	20.99	20.88
		8	7	21.42	20.91	21.70
		15	0	21.15	21.22	21.30
3M	64QAM	1	0	20.73	21.34	21.65
		1	7	21.40	21.18	20.71
		1	14	20.77	21.31	21.06
		8	0	20.42	20.22	20.58
		8	3	19.58	20.36	20.04
		8	7	19.75	19.66	20.00
		15	0	19.98	19.31	19.41
3M	256QAM	1	0	17.61	17.86	17.49
		1	7	17.48	17.84	18.01
		1	14	17.48	17.68	18.08
		8	0	17.53	18.13	17.89
		8	3	17.64	17.28	18.14
		8	7	17.26	18.01	18.05
		15	0	17.41	18.01	17.77

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	23.31	23.39	23.42
		1	2	23.28	23.30	23.35
		1	5	23.36	23.10	23.23
		3	0	23.40	22.97	23.07
		3	1	23.14	22.74	23.32
		3	3	22.92	23.17	23.74
		6	0	22.11	22.45	22.67
1.4M	16QAM	1	0	22.50	22.51	21.88
		1	2	21.94	22.54	22.19
		1	5	22.13	22.48	22.34
		3	0	22.35	22.81	22.77
		3	1	21.83	22.38	22.76
		3	3	22.01	22.19	21.99
		6	0	20.98	21.38	21.08
1.4M	64QAM	1	0	21.23	20.87	21.50
		1	2	20.91	21.08	20.84
		1	5	20.99	20.73	20.64
		3	0	21.31	21.42	21.42
		3	1	21.09	20.57	20.95
		3	3	20.59	20.24	20.39
		6	0	19.59	19.61	20.24
1.4M	256QAM	1	0	17.92	18.25	18.06
		1	2	18.24	17.80	17.51
		1	5	17.98	18.32	18.25
		3	0	17.80	18.69	18.75
		3	1	17.71	19.04	18.66
		3	3	17.78	18.79	18.84
		6	0	17.16	17.29	17.99

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	23.23	23.56	23.58
		1	50	23.17	23.23	23.46
		1	99	22.42	22.77	23.16
		50	0	22.06	22.44	22.74
		50	25	22.35	22.51	22.57
		50	50	22.42	22.19	22.46
		100	0	22.08	22.57	22.82
20M	16QAM	1	0	22.18	22.35	22.49
		1	50	22.33	22.56	22.76
		1	99	22.57	22.43	22.73
		50	0	21.52	21.38	21.58
		50	25	21.30	21.70	21.15
		50	50	21.13	21.21	21.54
		100	0	21.53	21.33	21.61
20M	64QAM	1	0	21.34	21.40	21.61
		1	50	20.82	21.25	21.76
		1	99	21.04	21.48	21.30
		50	0	20.38	20.47	20.48
		50	25	20.03	20.49	20.68
		50	50	20.03	20.34	20.31
		100	0	20.48	20.53	20.61
20M	256QAM	1	0	17.32	18.18	18.43
		1	50	17.53	18.12	18.01
		1	99	17.37	17.79	18.11
		50	0	16.54	17.23	17.56
		50	25	16.66	17.25	17.64
		50	50	16.90	17.31	17.16
		100	0	16.84	16.95	16.80

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	23.26	23.36	23.35
		1	37	23.04	23.36	23.29
		1	74	22.48	22.87	23.00
		36	0	22.38	22.56	22.79
		36	19	22.09	22.33	22.39
		36	39	22.16	22.53	22.63
		75	0	22.38	22.11	22.28
15M	16QAM	1	0	22.47	22.12	22.08
		1	37	22.24	22.02	22.64
		1	74	22.14	22.09	22.42
		36	0	21.07	21.44	21.62
		36	19	21.37	21.62	21.65
		36	39	21.23	21.55	21.59
		75	0	21.05	21.64	21.19
15M	64QAM	1	0	21.32	21.83	21.62
		1	37	21.19	21.67	21.21
		1	74	20.76	21.28	21.30
		36	0	20.18	20.50	20.62
		36	19	20.25	20.26	20.46
		36	39	20.11	20.75	20.29
		75	0	20.04	20.28	20.72
15M	256QAM	1	0	17.34	17.88	18.27
		1	37	17.66	17.80	18.43
		1	74	17.40	17.77	17.55
		36	0	16.53	16.80	16.90
		36	19	16.79	16.48	17.04
		36	39	17.10	17.11	17.19
		75	0	16.85	17.27	17.42

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	22.89	23.22	23.56
		1	24	22.86	23.08	23.20
		1	49	22.62	22.94	22.96
		25	0	22.18	22.37	22.71
		25	12	22.38	22.51	22.49
		25	25	22.20	22.46	22.71
		50	0	22.37	22.00	22.38
10M	16QAM	1	0	22.06	22.04	22.05
		1	24	22.09	21.89	22.12
		1	49	21.94	22.43	22.14
		25	0	21.07	21.42	21.31
		25	12	21.38	21.26	21.35
		25	25	21.27	21.32	21.02
		50	0	21.18	21.15	21.43
10M	64QAM	1	0	21.23	21.47	21.61
		1	24	20.90	21.39	21.23
		1	49	20.65	21.21	21.65
		25	0	20.01	20.69	20.63
		25	12	19.96	20.55	20.69
		25	25	20.36	20.77	20.15
		50	0	20.05	20.39	20.70
10M	256QAM	1	0	17.38	17.94	18.59
		1	24	17.74	17.55	17.99
		1	49	16.98	17.62	17.67
		25	0	16.70	16.97	17.05
		25	12	17.20	16.87	16.76
		25	25	16.82	17.05	17.15
		50	0	16.64	16.87	17.08

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	23.09	23.34	23.35
		1	12	22.75	23.12	23.14
		1	24	22.32	23.20	23.08
		12	0	22.42	22.57	22.60
		12	6	22.35	21.99	22.25
		12	13	22.26	22.21	22.43
		25	0	22.19	21.99	22.68
5M	16QAM	1	0	22.41	22.55	22.16
		1	12	22.34	21.99	22.52
		1	24	22.33	21.95	22.37
		12	0	21.35	21.10	21.11
		12	6	21.35	21.10	21.31
		12	13	21.35	21.27	21.25
		25	0	20.88	21.24	21.37
5M	64QAM	1	0	20.75	21.20	21.73
		1	12	21.26	21.12	21.25
		1	24	20.87	21.10	21.32
		12	0	20.38	20.47	20.29
		12	6	20.43	20.72	20.60
		12	13	20.29	20.60	20.68
		25	0	19.91	20.25	20.62
5M	256QAM	1	0	17.30	18.24	18.59
		1	12	17.73	17.59	18.13
		1	24	16.77	17.50	17.35
		12	0	16.91	17.06	16.82
		12	6	17.00	16.95	17.34
		12	13	16.88	16.87	17.56
		25	0	16.76	16.90	17.38

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	23.08	23.44	23.38
		1	7	22.82	23.21	23.30
		1	14	22.24	22.75	22.79
		8	0	22.30	22.24	22.54
		8	3	22.08	22.45	22.59
		8	7	22.29	22.27	22.46
		15	0	22.07	21.96	22.51
3M	16QAM	1	0	22.66	22.51	22.21
		1	7	22.45	21.91	22.39
		1	14	22.27	22.06	22.66
		8	0	21.11	21.12	21.43
		8	3	20.93	21.18	21.07
		8	7	21.19	21.21	21.31
		15	0	21.08	21.37	21.19
3M	64QAM	1	0	21.39	21.46	21.54
		1	7	20.80	21.40	21.44
		1	14	20.54	21.40	21.36
		8	0	20.23	20.77	20.58
		8	3	20.42	20.35	20.25
		8	7	19.86	20.46	20.34
		15	0	19.84	20.36	20.17
3M	256QAM	1	0	17.56	17.95	17.82
		1	7	17.60	18.12	18.04
		1	14	17.04	17.37	17.36
		8	0	16.84	16.78	17.07
		8	3	16.62	17.06	16.72
		8	7	16.85	16.93	17.00
		15	0	16.77	17.08	17.15

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	23.14	23.34	23.37
		1	2	22.55	23.28	23.35
		1	5	22.42	23.09	23.36
		3	0	23.19	23.38	23.30
		3	1	23.44	23.09	23.40
		3	3	23.13	23.46	23.19
		6	0	22.23	22.40	22.58
1.4M	16QAM	1	0	22.02	22.44	22.55
		1	2	21.96	22.30	22.16
		1	5	22.40	22.22	22.48
		3	0	21.96	22.09	22.36
		3	1	21.93	22.15	22.32
		3	3	22.28	22.22	22.06
		6	0	21.36	21.07	21.52
1.4M	64QAM	1	0	20.96	21.63	21.22
		1	2	20.88	21.27	21.31
		1	5	20.94	21.12	21.25
		3	0	20.98	21.50	21.54
		3	1	21.12	21.48	21.51
		3	3	21.20	21.52	21.53
		6	0	20.34	20.54	20.65
1.4M	256QAM	1	0	17.69	17.86	18.12
		1	2	17.23	17.63	17.75
		1	5	17.22	17.28	17.92
		3	0	17.64	17.29	17.36
		3	1	17.79	17.18	17.35
		3	3	17.27	17.20	17.39
		6	0	17.01	17.27	17.26

EIRP / ERP Power (dBm)

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		509202	518598	528000
		Frequency (MHz)		2546.01	2592.99	2640
100M	$\pi/2$ BPSK	1	1	27.23	27.29	26.92
		1	137	27.11	27.16	26.86
		1	271	27.15	27.12	26.87
		135	0	26.49	26.71	26.38
		135	69	27.19	27.19	26.89
		135	138	26.45	26.67	26.49
		270	0	26.53	26.77	26.55
100M	QPSK	1	1	27.26	27.37	26.99
		1	137	27.19	27.21	26.90
		1	271	27.21	27.16	26.96
		135	0	26.07	26.24	25.96
		135	69	27.23	27.25	26.96
		135	138	26.05	26.27	26.05
		270	0	26.12	26.32	26.06
100M	16QAM	1	1	26.21	26.29	25.85
100M	64QAM	1	1	24.52	24.63	24.26
100M	256QAM	1	1	22.63	22.54	22.28
BW	MCS Index	Channel		508200	518598	528996
		Frequency (MHz)		2541	2592.99	2644.98
90M	$\pi/2$ BPSK	1	1	27.22	27.25	26.91
		1	123	27.01	27.13	26.86
		1	243	27.13	27.07	26.85
		120	0	26.49	26.67	26.36
		120	63	27.09	27.18	26.89
		120	125	26.45	26.60	26.46
		243	0	26.51	26.76	26.53
90M	QPSK	1	1	27.17	27.24	26.85
		1	123	27.02	27.11	26.84
		1	243	27.10	27.10	26.79
		120	0	25.93	26.16	25.85
		120	63	27.09	27.19	26.88
		120	125	25.88	26.07	25.98
		243	0	25.98	26.25	26.04
90M	16QAM	1	1	26.17	26.20	25.89
90M	64QAM	1	1	24.60	24.57	24.33
90M	256QAM	1	1	22.64	22.55	22.28

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		507204	518598	529998
		Frequency (MHz)		2536.02	2592.99	2649.99
80M	$\pi/2$ BPSK	1	1	27.22	27.22	26.91
		1	109	27.01	27.09	26.84
		1	215	27.14	27.08	26.86
		108	0	26.39	26.64	26.33
		108	55	27.15	27.17	26.79
		108	109	26.40	26.57	26.45
		216	0	26.53	26.74	26.51
80M	QPSK	1	1	27.20	27.20	26.90
		1	109	27.10	27.13	26.80
		1	215	27.11	27.11	26.86
		108	0	25.89	26.12	25.79
		108	55	27.14	27.10	26.85
		108	109	25.91	26.14	25.90
		216	0	25.94	26.19	26.02
80M	16QAM	1	1	26.16	26.20	25.87
80M	64QAM	1	1	24.59	24.57	24.31
80M	256QAM	1	1	22.56	22.57	22.33
BW	MCS Index	Channel		505200	518598	531996
		Frequency (MHz)		2526	2592.99	2659.98
60M	$\pi/2$ BPSK	1	1	27.21	27.29	26.89
		1	81	27.04	27.16	26.83
		1	160	27.14	27.02	26.78
		81	0	26.47	26.65	26.33
		81	41	27.17	27.10	26.83
		81	81	26.35	26.65	26.43
		162	0	26.50	26.67	26.50
60M	QPSK	1	1	27.21	27.29	26.83
		1	81	27.08	27.16	26.80
		1	160	27.05	27.07	26.81
		81	0	25.94	26.18	25.81
		81	41	27.11	27.18	26.85
		81	81	25.87	26.14	25.89
		162	0	25.96	26.18	26.00
60M	16QAM	1	1	26.19	26.29	25.84
60M	64QAM	1	1	24.61	24.60	24.36
60M	256QAM	1	1	22.62	22.52	22.35

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		504204	518598	532998
		Frequency (MHz)		2521.02	2592.99	2664.99
50M	$\pi/2$ BPSK	1	1	27.14	27.21	26.84
		1	67	27.06	27.14	26.78
		1	131	27.14	27.10	26.85
		64	0	26.39	26.67	26.34
		64	35	27.19	27.13	26.88
		64	69	26.45	26.63	26.43
		128	0	26.48	26.71	26.53
50M	QPSK	1	1	27.21	27.19	26.89
		1	67	27.11	27.12	26.77
		1	131	27.08	27.12	26.82
		64	0	25.97	26.20	25.80
		64	35	27.12	27.18	26.81
		64	69	25.92	26.17	25.97
		128	0	26.02	26.21	26.05
50M	16QAM	1	1	26.21	26.28	25.88
50M	64QAM	1	1	24.58	24.63	24.30
50M	256QAM	1	1	22.62	22.55	22.33
BW	MCS Index	Channel		503202	518598	534000
		Frequency (MHz)		2516.01	2592.99	2670
40M	$\pi/2$ BPSK	1	1	27.19	27.20	26.82
		1	53	27.10	27.10	26.77
		1	104	27.07	27.10	26.86
		50	0	26.43	26.68	26.35
		50	28	27.18	27.11	26.87
		50	56	26.37	26.59	26.41
		100	0	26.45	26.68	26.53
40M	QPSK	1	1	27.21	27.29	26.85
		1	53	27.05	27.16	26.81
		1	104	27.13	27.02	26.79
		50	0	25.89	26.14	25.85
		50	28	27.12	27.18	26.86
		50	56	25.85	26.08	25.89
		100	0	25.99	26.17	25.97
40M	16QAM	1	1	26.17	26.19	25.89
40M	64QAM	1	1	24.54	24.61	24.31
40M	256QAM	1	1	22.55	22.54	22.29

NR Band 41						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		502200	518598	534996
		Frequency (MHz)		2511	2592.99	2674.98
30M	$\pi/2$ BPSK	1	1	27.13	27.11	26.75
		1	39	27.09	27.10	26.75
		1	76	27.06	27.07	26.77
		36	0	26.37	26.67	26.35
		36	21	27.18	27.01	26.85
		36	42	26.36	26.54	26.32
		75	0	26.40	26.62	26.53
30M	QPSK	1	1	27.11	27.29	26.77
		1	39	27.01	27.13	26.73
		1	76	27.11	26.97	26.70
		36	0	25.79	26.14	25.80
		36	21	27.02	27.08	26.76
		36	42	25.79	26.03	25.81
		75	0	25.96	26.15	25.90
30M	16QAM	1	1	26.10	26.09	25.85
30M	64QAM	1	1	24.52	24.58	24.30
30M	256QAM	1	1	22.47	22.46	22.25
BW	MCS Index	Channel		501204	518598	535998
		Frequency (MHz)		2506.02	2592.99	2679.99
		20M	$\pi/2$ BPSK	1	1	27.16
1	26			27.06	27.10	26.86
1	49			27.12	27.03	26.79
25	0			26.41	26.65	26.32
25	13			27.19	27.19	26.84
25	26			26.45	26.64	26.43
50	0			26.51	26.69	26.53
20M	QPSK	1	1	27.16	27.21	26.82
		1	26	27.01	27.09	26.85
		1	49	27.06	27.05	26.85
		25	0	25.96	26.19	25.87
		25	13	27.15	27.17	26.82
		25	26	25.88	26.14	25.95
		50	0	26.00	26.21	26.02
20M	16QAM	1	1	26.22	26.29	25.87
20M	64QAM	1	1	24.55	24.65	24.27
20M	256QAM	1	1	22.61	22.61	22.35

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	22.44	22.37	22.29
		1	50	22.18	22.21	22.28
		1	99	22.25	22.32	22.26
		50	0	21.31	21.19	21.44
		50	25	21.20	21.20	21.26
		50	50	21.23	20.98	21.32
		100	0	21.43	21.03	21.38
20M	16QAM	1	0	21.35	21.46	21.48
		1	50	21.12	21.19	21.30
		1	99	21.04	21.31	21.25
		50	0	20.00	20.24	20.27
		50	25	20.27	20.22	20.03
		50	50	20.01	20.20	20.05
		100	0	20.25	19.94	20.13
20M	64QAM	1	0	20.37	20.44	20.08
		1	50	20.25	20.06	20.32
		1	99	20.23	20.30	20.23
		50	0	19.37	19.40	19.25
		50	25	19.02	19.25	19.13
		50	50	19.06	19.16	19.28
		100	0	19.28	19.22	19.15
20M	256QAM	1	0	17.28	16.95	16.77
		1	50	16.83	17.05	16.77
		1	99	16.73	16.59	16.56
		50	0	16.60	16.70	16.80
		50	25	16.97	16.76	17.03
		50	50	17.09	16.72	16.65
		100	0	16.92	16.91	16.72

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.5	1880	1902.5
15M	QPSK	1	0	22.37	22.31	22.32
		1	37	22.36	22.19	22.16
		1	74	22.01	22.20	22.08
		36	0	21.34	21.19	21.28
		36	19	21.21	21.19	21.26
		36	39	21.15	20.97	21.28
		75	0	21.14	21.23	21.18
15M	16QAM	1	0	21.20	21.38	21.14
		1	37	21.08	21.19	21.17
		1	74	21.02	21.26	21.22
		36	0	19.96	20.19	20.09
		36	19	20.11	20.07	19.90
		36	39	20.02	20.19	20.08
		75	0	20.09	20.17	20.15
15M	64QAM	1	0	20.11	20.14	20.11
		1	37	20.10	20.20	20.19
		1	74	20.13	20.19	20.21
		36	0	19.03	19.15	18.99
		36	19	19.20	18.87	18.90
		36	39	19.06	18.94	19.00
		75	0	19.14	19.29	19.22
15M	256QAM	1	0	16.92	16.62	17.17
		1	37	16.93	16.65	16.85
		1	74	16.80	16.64	16.97
		36	0	15.91	15.86	15.98
		36	19	15.68	15.71	15.87
		36	39	15.80	16.05	15.89
		75	0	15.63	15.61	15.69

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	22.11	22.37	22.03
		1	24	22.16	22.10	21.93
		1	49	22.18	22.04	22.10
		25	0	21.23	21.21	21.16
		25	12	21.25	20.86	21.27
		25	25	21.02	21.20	21.14
		50	0	20.93	20.99	20.97
10M	16QAM	1	0	21.18	21.19	21.06
		1	24	20.94	21.15	21.23
		1	49	21.29	20.97	21.09
		25	0	20.10	20.08	20.02
		25	12	19.91	19.83	19.89
		25	25	20.19	19.94	20.04
		50	0	19.98	20.02	19.95
10M	64QAM	1	0	20.23	20.19	20.10
		1	24	20.11	20.03	19.91
		1	49	20.23	19.81	19.91
		25	0	18.99	18.97	19.14
		25	12	18.87	19.08	19.15
		25	25	19.14	19.21	18.95
		50	0	19.31	19.09	19.14
10M	256QAM	1	0	16.89	17.00	16.99
		1	24	16.60	16.47	16.73
		1	49	16.67	16.84	16.63
		25	0	15.75	15.78	15.73
		25	12	15.53	15.92	15.73
		25	25	15.90	15.97	15.77
		50	0	15.70	15.61	15.91

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.5	1880	1907.5
5M	QPSK	1	0	22.22	22.25	22.06
		1	12	21.99	22.12	22.00
		1	24	22.18	21.86	21.82
		12	0	21.14	21.21	21.27
		12	6	20.94	20.85	21.19
		12	13	21.13	20.98	20.82
		25	0	21.09	21.19	21.12
5M	16QAM	1	0	21.15	21.24	21.19
		1	12	21.12	21.26	20.94
		1	24	21.04	21.25	21.01
		12	0	19.95	19.98	20.17
		12	6	20.16	19.94	20.09
		12	13	20.15	20.14	19.93
		25	0	19.95	19.83	20.15
5M	64QAM	1	0	19.99	20.11	20.16
		1	12	20.36	20.12	19.96
		1	24	20.00	20.14	19.97
		12	0	19.06	18.88	19.04
		12	6	19.13	18.86	18.89
		12	13	18.95	18.79	19.02
		25	0	19.21	19.13	18.95
5M	256QAM	1	0	16.78	16.92	16.83
		1	12	16.41	16.96	16.52
		1	24	16.94	16.65	16.61
		12	0	15.77	15.83	15.92
		12	6	15.89	15.49	15.85
		12	13	15.67	15.53	15.52
		25	0	15.96	15.81	15.77

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.5	1880	1908.5
3M	QPSK	1	0	22.12	21.95	22.26
		1	7	22.05	22.07	21.95
		1	14	22.16	22.03	22.20
		8	0	21.40	21.03	21.16
		8	3	21.20	21.13	21.33
		8	7	21.14	21.18	21.09
		15	0	21.04	21.01	21.22
3M	16QAM	1	0	21.25	21.16	21.23
		1	7	21.36	21.29	20.98
		1	14	21.27	21.18	21.21
		8	0	20.16	20.23	19.96
		8	3	19.85	19.84	19.87
		8	7	19.99	19.77	20.02
		15	0	20.00	19.97	19.81
3M	64QAM	1	0	20.14	20.01	20.21
		1	7	20.14	20.12	20.16
		1	14	19.89	19.88	19.97
		8	0	19.07	19.00	18.97
		8	3	18.96	19.14	19.03
		8	7	19.10	19.01	19.02
		15	0	19.16	19.00	18.94
3M	256QAM	1	0	16.96	16.79	16.68
		1	7	16.69	16.51	16.56
		1	14	16.81	16.72	16.68
		8	0	15.94	15.64	15.72
		8	3	15.96	15.45	15.91
		8	7	16.14	15.65	15.96
		15	0	16.05	15.61	15.81

LTE Band 2						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.7	1880	1909.3
1.4M	QPSK	1	0	22.25	21.90	22.18
		1	2	22.05	22.23	22.19
		1	5	22.24	21.90	21.93
		3	0	22.23	22.00	22.05
		3	1	22.19	22.13	22.16
		3	3	22.11	22.01	21.95
		6	0	20.95	20.95	21.15
1.4M	16QAM	1	0	21.24	21.25	21.16
		1	2	20.95	20.97	21.01
		1	5	21.19	21.18	20.94
		3	0	21.19	20.96	21.06
		3	1	21.06	21.17	20.96
		3	3	20.80	21.06	21.19
		6	0	20.09	19.91	19.87
1.4M	64QAM	1	0	20.09	19.90	20.29
		1	2	19.87	20.10	20.11
		1	5	20.08	20.14	20.02
		3	0	20.03	20.11	19.94
		3	1	20.26	19.90	19.93
		3	3	19.92	19.90	19.97
		6	0	19.16	19.26	18.98
1.4M	256QAM	1	0	16.62	16.58	16.87
		1	2	16.87	16.67	16.87
		1	5	16.70	16.73	16.68
		3	0	16.72	16.85	17.00
		3	1	16.78	16.76	16.81
		3	3	16.81	16.77	16.58
		6	0	15.80	15.85	15.62

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20050	20175	20300
		Frequency (MHz)		1720	1732.5	1745
20M	QPSK	1	0	22.00	21.93	22.14
		1	50	21.68	21.96	21.93
		1	99	21.64	21.70	22.01
		50	0	20.86	21.05	21.07
		50	25	20.78	20.94	20.87
		50	50	20.73	20.96	20.89
		100	0	21.00	21.08	20.85
20M	16QAM	1	0	20.91	21.04	21.05
		1	50	20.88	21.12	20.99
		1	99	20.89	20.93	21.12
		50	0	19.95	20.10	20.05
		50	25	19.95	19.91	20.20
		50	50	19.75	19.91	19.92
		100	0	19.94	19.98	19.92
20M	64QAM	1	0	20.17	20.00	19.94
		1	50	20.06	20.02	19.97
		1	99	19.74	19.92	19.92
		50	0	19.16	19.08	18.96
		50	25	19.13	19.00	19.19
		50	50	19.00	18.93	18.87
		100	0	19.01	19.00	19.14
20M	256QAM	1	0	16.69	16.36	16.44
		1	50	16.28	16.60	16.59
		1	99	16.28	16.61	16.32
		50	0	15.64	15.75	15.67
		50	25	15.48	15.67	15.59
		50	50	15.44	15.31	15.81
		100	0	15.63	15.76	15.78

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20025	20175	20325
		Frequency (MHz)		1717.5	1732.5	1747.5
15M	QPSK	1	0	22.01	21.77	22.07
		1	37	21.74	21.87	22.03
		1	74	21.64	21.85	21.98
		36	0	20.91	20.91	21.08
		36	19	20.75	20.78	21.00
		36	39	20.89	20.81	20.94
		75	0	20.88	20.75	20.90
15M	16QAM	1	0	20.93	20.87	21.08
		1	37	20.86	20.94	21.01
		1	74	20.71	21.04	21.18
		36	0	19.74	19.97	19.77
		36	19	19.72	19.86	19.97
		36	39	19.84	20.01	19.90
		75	0	19.64	19.80	20.21
15M	64QAM	1	0	19.92	19.90	20.10
		1	37	20.00	19.86	20.07
		1	74	19.94	20.04	19.89
		36	0	18.83	19.00	18.76
		36	19	19.03	18.80	18.92
		36	39	18.87	18.79	18.82
		75	0	18.99	18.97	18.83
15M	256QAM	1	0	16.68	16.75	16.84
		1	37	16.13	16.27	16.77
		1	74	16.14	16.47	16.47
		36	0	15.28	15.81	15.50
		36	19	15.84	15.65	15.47
		36	39	15.70	15.40	15.59
		75	0	15.28	15.49	15.67

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		20000	20175	20350
		Frequency (MHz)		1715	1732.5	1750
10M	QPSK	1	0	21.73	21.95	21.88
		1	24	21.78	21.95	21.84
		1	49	21.46	21.65	21.79
		25	0	20.61	20.87	20.94
		25	12	20.88	20.65	20.89
		25	25	20.71	20.64	20.76
		50	0	20.60	20.92	20.95
10M	16QAM	1	0	20.88	20.91	20.69
		1	24	20.65	20.97	21.04
		1	49	20.98	20.75	20.71
		25	0	20.02	19.98	20.04
		25	12	19.74	19.88	19.92
		25	25	19.79	19.98	19.67
		50	0	19.78	19.64	19.97
10M	64QAM	1	0	19.76	19.76	19.82
		1	24	19.84	20.00	20.02
		1	49	19.82	19.93	19.63
		25	0	18.80	19.10	19.00
		25	12	18.63	18.71	19.08
		25	25	18.95	18.96	18.81
		50	0	18.84	18.86	19.18
10M	256QAM	1	0	16.41	16.29	16.49
		1	24	16.40	16.55	16.74
		1	49	16.25	16.63	16.72
		25	0	15.43	15.21	15.58
		25	12	15.52	15.17	15.57
		25	25	15.17	15.53	15.62
		50	0	15.48	15.46	15.31

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19975	20175	20375
		Frequency (MHz)		1712.5	1732.5	1752.5
5M	QPSK	1	0	21.71	21.71	21.90
		1	12	21.69	21.86	21.82
		1	24	21.78	21.43	21.84
		12	0	20.72	20.81	20.83
		12	6	21.02	20.65	20.77
		12	13	20.74	20.75	20.72
		25	0	20.49	20.75	20.68
5M	16QAM	1	0	20.98	20.81	20.91
		1	12	20.94	20.65	21.04
		1	24	20.87	20.88	20.84
		12	0	19.84	19.87	19.78
		12	6	19.78	19.83	19.98
		12	13	19.71	19.96	19.73
		25	0	19.63	19.91	20.10
5M	64QAM	1	0	19.87	20.07	20.10
		1	12	19.91	19.80	19.97
		1	24	19.89	19.80	19.85
		12	0	18.93	18.93	18.87
		12	6	18.66	19.02	18.77
		12	13	18.93	18.86	18.88
		25	0	18.67	18.61	19.04
5M	256QAM	1	0	16.56	16.36	16.23
		1	12	16.01	16.59	16.38
		1	24	16.33	16.42	16.58
		12	0	15.31	15.17	15.64
		12	6	15.25	15.54	15.43
		12	13	15.12	15.48	15.68
		25	0	15.22	15.32	15.48

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19965	20175	20385
		Frequency (MHz)		1711.5	1732.5	1753.5
3M	QPSK	1	0	21.88	21.98	21.83
		1	7	21.82	21.59	21.75
		1	14	21.61	21.67	21.95
		8	0	20.83	21.06	20.83
		8	3	20.70	20.73	20.82
		8	7	20.86	20.91	20.82
		15	0	20.64	20.66	21.06
3M	16QAM	1	0	20.96	20.98	20.88
		1	7	20.64	20.73	20.95
		1	14	20.71	20.83	20.80
		8	0	19.73	19.92	19.79
		8	3	19.81	19.82	20.01
		8	7	19.70	19.94	19.91
		15	0	19.87	19.96	19.90
3M	64QAM	1	0	20.08	19.87	19.89
		1	7	20.16	19.82	19.99
		1	14	19.75	19.76	19.80
		8	0	18.93	18.91	18.84
		8	3	18.85	18.81	19.08
		8	7	18.70	18.88	18.84
		15	0	18.73	18.79	18.72
3M	256QAM	1	0	16.18	16.74	16.53
		1	7	16.30	16.48	16.64
		1	14	16.24	16.48	16.38
		8	0	15.47	15.36	15.33
		8	3	15.58	15.25	15.32
		8	7	15.46	15.29	15.48
		15	0	15.27	15.56	15.61

LTE Band 4						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		19957	20175	20393
		Frequency (MHz)		1710.7	1732.5	1754.3
1.4M	QPSK	1	0	21.89	21.70	21.93
		1	2	21.75	21.90	21.88
		1	5	21.48	21.72	21.85
		3	0	21.80	21.84	22.04
		3	1	21.84	21.89	21.90
		3	3	21.68	21.84	21.98
		6	0	20.82	20.81	20.94
1.4M	16QAM	1	0	20.66	20.75	20.81
		1	2	20.59	20.78	21.05
		1	5	20.89	20.65	20.86
		3	0	20.69	20.87	20.78
		3	1	20.67	20.91	20.94
		3	3	20.92	20.96	20.85
		6	0	19.74	19.69	20.02
1.4M	64QAM	1	0	19.64	20.09	20.02
		1	2	19.88	19.92	19.77
		1	5	19.80	19.92	19.91
		3	0	19.91	19.98	19.74
		3	1	19.95	20.09	19.90
		3	3	19.73	19.80	20.13
		6	0	18.98	18.74	18.93
1.4M	256QAM	1	0	16.24	16.13	16.36
		1	2	16.49	16.11	16.75
		1	5	16.16	16.48	16.76
		3	0	16.27	16.46	16.33
		3	1	16.12	16.40	16.74
		3	3	16.42	16.45	16.57
		6	0	15.24	15.34	15.46

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23060	23095	23130
		Frequency (MHz)		704	707.5	711
10M	QPSK	1	0	20.31	20.05	20.00
		1	24	20.23	19.99	20.06
		1	49	20.17	20.23	19.90
		25	0	19.49	19.18	18.90
		25	12	19.18	19.13	19.16
		25	25	19.41	18.95	19.06
		50	0	19.51	19.27	19.13
10M	16QAM	1	0	19.32	19.19	19.00
		1	24	19.40	18.86	19.11
		1	49	19.05	19.14	19.10
		25	0	18.36	18.28	17.95
		25	12	18.41	18.27	18.15
		25	25	18.35	18.31	18.04
		50	0	18.31	18.20	17.97
10M	64QAM	1	0	18.57	17.95	18.04
		1	24	18.62	18.13	17.93
		1	49	18.01	17.68	17.74
		25	0	17.20	16.84	16.89
		25	12	17.16	16.80	16.75
		25	25	16.92	17.01	16.69
		50	0	16.99	16.90	16.93
10M	256QAM	1	0	15.32	14.83	14.75
		1	24	15.17	14.43	15.02
		1	49	14.95	14.72	14.54
		25	0	13.94	13.51	13.69
		25	12	14.07	14.03	13.68
		25	25	13.91	13.87	13.73
		50	0	14.03	13.98	13.53

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23035	23095	23155
		Frequency (MHz)		701.5	707.5	713.5
5M	QPSK	1	0	20.22	20.15	20.14
		1	12	20.24	20.15	20.08
		1	24	20.29	20.14	20.07
		12	0	19.09	19.21	19.15
		12	6	19.45	18.93	18.95
		12	13	19.13	18.90	18.82
		25	0	19.44	19.10	19.08
5M	16QAM	1	0	19.45	19.21	19.16
		1	12	19.20	18.80	18.93
		1	24	19.25	19.05	18.72
		12	0	18.45	17.99	17.90
		12	6	18.19	18.25	17.91
		12	13	18.51	18.18	18.12
		25	0	18.59	17.94	18.13
5M	64QAM	1	0	18.28	18.19	17.96
		1	12	18.54	18.17	18.00
		1	24	17.95	17.56	17.55
		12	0	17.15	16.87	16.96
		12	6	17.18	17.01	16.80
		12	13	17.15	16.90	16.64
		25	0	17.14	16.72	16.88
5M	256QAM	1	0	14.98	14.80	14.82
		1	12	14.78	14.88	14.54
		1	24	14.55	14.42	14.67
		12	0	14.07	13.63	13.55
		12	6	13.65	13.74	13.47
		12	13	13.99	13.78	13.62
		25	0	14.15	13.67	13.60

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23025	23095	23165
		Frequency (MHz)		700.5	707.5	714.5
3M	QPSK	1	0	20.26	19.99	20.02
		1	7	20.23	19.97	20.00
		1	14	19.99	19.81	19.85
		8	0	19.24	19.09	18.95
		8	3	19.28	19.11	19.08
		8	7	19.17	18.92	18.95
		15	0	19.16	19.05	18.97
3M	16QAM	1	0	19.18	19.10	19.00
		1	7	19.17	18.99	19.03
		1	14	19.13	18.67	18.66
		8	0	18.43	17.88	17.82
		8	3	18.26	18.01	17.77
		8	7	18.22	18.09	18.16
		15	0	18.24	18.01	17.89
3M	64QAM	1	0	18.52	17.95	18.06
		1	7	18.20	17.77	17.94
		1	14	17.84	17.79	17.64
		8	0	17.16	16.67	17.04
		8	3	16.79	16.77	16.83
		8	7	16.99	16.82	16.57
		15	0	17.09	16.87	16.61
3M	256QAM	1	0	15.02	14.56	14.64
		1	7	15.12	14.63	14.63
		1	14	14.80	14.61	14.34
		8	0	13.80	13.70	13.60
		8	3	13.97	13.68	13.67
		8	7	13.87	13.36	13.78
		15	0	13.91	13.72	13.42

LTE Band 12						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23017	23095	23173
		Frequency (MHz)		699.7	707.5	715.3
1.4M	QPSK	1	0	20.15	19.98	19.84
		1	2	20.15	19.92	20.11
		1	5	20.10	19.97	19.87
		3	0	20.17	19.88	19.89
		3	1	20.19	20.08	20.02
		3	3	20.19	19.91	19.81
		6	0	19.27	18.95	19.04
1.4M	16QAM	1	0	19.38	19.13	18.86
		1	2	19.09	18.81	19.06
		1	5	18.87	18.82	18.64
		3	0	19.22	19.11	18.86
		3	1	19.22	19.11	18.86
		3	3	19.23	19.04	19.13
		6	0	18.25	18.13	18.15
1.4M	64QAM	1	0	18.22	17.77	18.11
		1	2	18.32	17.98	18.04
		1	5	17.85	17.90	17.66
		3	0	18.08	17.80	17.91
		3	1	18.20	17.95	17.59
		3	3	18.13	17.65	17.75
		6	0	16.90	16.58	16.84
1.4M	256QAM	1	0	15.01	14.60	14.56
		1	2	14.93	14.65	14.61
		1	5	14.58	14.72	14.56
		3	0	14.88	14.24	14.46
		3	1	15.22	14.76	14.63
		3	3	14.86	14.88	14.22
		6	0	13.96	13.89	13.73

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26365	26590
		Frequency (MHz)		1860	1882.5	1905
20M	QPSK	1	0	22.21	22.23	22.24
		1	50	21.86	22.21	21.85
		1	99	21.88	21.97	21.92
		50	0	20.88	21.01	20.96
		50	25	21.17	21.03	21.07
		50	50	20.87	21.24	21.07
		100	0	21.04	21.26	20.96
20M	16QAM	1	0	20.96	21.03	20.96
		1	50	20.90	21.24	21.04
		1	99	20.80	21.19	21.19
		50	0	20.22	20.37	19.97
		50	25	20.17	20.14	20.06
		50	50	20.05	20.18	19.95
		100	0	19.97	20.18	20.18
20M	64QAM	1	0	20.07	20.00	20.19
		1	50	20.10	20.20	20.22
		1	99	19.76	19.96	20.08
		50	0	19.15	19.13	19.04
		50	25	18.94	19.27	18.97
		50	50	19.15	19.14	19.04
		100	0	19.12	19.06	19.23
20M	256QAM	1	0	16.63	16.91	16.66
		1	50	16.49	16.48	16.87
		1	99	16.62	16.88	16.48
		50	0	15.87	15.79	15.77
		50	25	15.77	15.93	15.93
		50	50	15.54	15.68	15.69
		100	0	15.49	15.80	15.80

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26365	26615
		Frequency (MHz)		1857.5	1882.5	1907.5
15M	QPSK	1	0	22.04	22.13	22.21
		1	37	21.87	22.01	21.88
		1	74	21.73	22.08	21.78
		36	0	21.02	21.28	21.08
		36	19	21.08	20.98	21.20
		36	39	20.95	21.11	21.25
		75	0	21.12	21.05	21.00
15M	16QAM	1	0	20.77	21.12	20.97
		1	37	20.92	21.23	20.97
		1	74	20.74	21.03	21.03
		36	0	20.07	20.23	20.23
		36	19	19.91	20.11	20.10
		36	39	20.02	20.26	20.16
		75	0	19.88	19.98	20.17
15M	64QAM	1	0	19.96	20.08	20.21
		1	37	20.10	20.03	20.01
		1	74	19.91	20.03	19.95
		36	0	19.10	19.11	19.00
		36	19	18.96	19.06	19.20
		36	39	18.80	18.92	19.12
		75	0	19.13	19.17	19.00
15M	256QAM	1	0	16.62	16.48	17.03
		1	37	16.25	16.45	16.22
		1	74	16.48	16.52	16.55
		36	0	15.67	15.74	15.90
		36	19	15.40	15.72	16.03
		36	39	15.65	15.52	15.49
		75	0	15.81	16.07	15.93

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26365	26640
		Frequency (MHz)		1855	1882.5	1910
10M	QPSK	1	0	21.92	22.14	22.11
		1	24	21.70	22.09	21.81
		1	49	21.82	21.64	21.87
		25	0	21.06	20.91	20.87
		25	12	20.67	20.89	20.97
		25	25	20.93	20.97	20.95
		50	0	21.05	21.28	21.06
10M	16QAM	1	0	20.82	20.93	20.85
		1	24	20.74	21.09	20.93
		1	49	20.83	21.05	20.92
		25	0	19.91	19.90	19.81
		25	12	20.04	19.89	19.98
		25	25	19.82	20.06	20.05
		50	0	19.95	20.14	19.83
10M	64QAM	1	0	19.89	20.21	19.85
		1	24	19.89	20.26	20.21
		1	49	19.86	20.04	19.96
		25	0	19.09	18.91	18.81
		25	12	18.81	19.08	18.96
		25	25	19.00	19.10	18.82
		50	0	18.73	19.00	18.82
10M	256QAM	1	0	16.80	16.92	16.41
		1	24	16.15	16.87	16.41
		1	49	16.33	16.35	16.53
		25	0	15.41	15.59	15.83
		25	12	15.67	15.50	15.74
		25	25	15.72	15.69	15.66
		50	0	15.68	15.60	15.43

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26365	26665
		Frequency (MHz)		1852.5	1882.5	1912.5
5M	QPSK	1	0	22.15	22.14	22.10
		1	12	21.66	21.90	21.63
		1	24	21.96	21.80	21.90
		12	0	20.88	20.98	20.99
		12	6	21.06	21.05	21.04
		12	13	20.75	20.96	20.66
		25	0	21.10	20.85	21.10
5M	16QAM	1	0	20.73	21.05	21.07
		1	12	20.73	21.07	21.01
		1	24	20.77	20.99	21.01
		12	0	19.78	20.12	20.17
		12	6	19.95	20.24	20.26
		12	13	20.00	20.25	20.04
		25	0	19.76	19.86	19.87
5M	64QAM	1	0	19.96	19.95	20.04
		1	12	19.97	19.83	19.93
		1	24	19.74	19.94	20.04
		12	0	18.87	19.00	19.01
		12	6	18.90	19.24	18.89
		12	13	18.73	19.06	18.89
		25	0	18.76	19.09	19.04
5M	256QAM	1	0	16.78	16.51	16.61
		1	12	16.38	16.77	16.29
		1	24	16.64	16.57	16.26
		12	0	15.91	15.80	15.87
		12	6	15.44	15.59	15.34
		12	13	15.29	15.42	15.64
		25	0	15.44	15.92	15.33

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26365	26675
		Frequency (MHz)		1851.5	1882.5	1913.5
3M	QPSK	1	0	22.00	21.92	21.85
		1	7	21.59	21.93	21.87
		1	14	21.93	22.00	21.85
		8	0	20.91	21.02	21.12
		8	3	20.85	21.02	21.18
		8	7	20.73	21.12	20.82
		15	0	20.94	21.08	21.04
3M	16QAM	1	0	21.06	21.08	21.14
		1	7	20.90	21.04	20.93
		1	14	20.97	20.88	21.01
		8	0	19.75	20.17	20.01
		8	3	20.09	20.21	19.81
		8	7	20.01	20.07	19.79
		15	0	19.96	19.77	19.94
3M	64QAM	1	0	20.01	20.08	19.98
		1	7	20.00	20.12	19.82
		1	14	19.85	19.81	19.79
		8	0	18.73	19.00	19.02
		8	3	18.77	19.15	18.85
		8	7	18.98	18.92	19.17
		15	0	19.05	19.05	18.99
3M	256QAM	1	0	16.38	16.51	16.69
		1	7	16.25	16.70	16.48
		1	14	16.34	16.29	16.71
		8	0	15.60	15.68	15.48
		8	3	15.72	15.68	15.87
		8	7	15.74	15.31	15.63
		15	0	15.70	15.90	15.75

LTE Band 25						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26365	26683
		Frequency (MHz)		1850.7	1882.5	1914.3
1.4M	QPSK	1	0	21.96	22.06	22.07
		1	2	21.76	22.05	22.03
		1	5	21.82	21.73	21.95
		3	0	21.96	22.05	21.96
		3	1	21.83	21.93	22.13
		3	3	21.77	21.93	21.76
		6	0	21.11	21.00	21.10
1.4M	16QAM	1	0	20.80	20.89	21.13
		1	2	20.68	20.98	21.03
		1	5	20.70	20.91	21.02
		3	0	21.18	20.95	20.98
		3	1	20.93	21.04	21.07
		3	3	20.97	21.08	20.97
		6	0	19.71	19.83	19.86
1.4M	64QAM	1	0	20.04	20.15	20.14
		1	2	19.84	20.04	20.21
		1	5	19.56	19.71	19.99
		3	0	19.99	20.25	20.15
		3	1	19.69	20.06	19.95
		3	3	19.87	20.05	19.80
		6	0	18.90	18.83	18.96
1.4M	256QAM	1	0	16.60	16.42	16.65
		1	2	16.51	16.79	16.49
		1	5	16.59	16.79	16.23
		3	0	16.52	16.83	16.55
		3	1	16.44	16.90	16.65
		3	3	16.45	16.65	16.18
		6	0	15.59	15.69	15.67

LTE Band 26 (For FCC Part 22)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	20.46	20.41	20.67
		1	37	20.40	20.41	20.61
		1	74	20.31	20.31	20.55
		36	0	19.52	19.44	19.63
		36	19	19.58	19.42	19.52
		36	39	19.49	19.32	19.51
		75	0	19.26	19.31	19.67
15M	16QAM	1	0	19.49	19.24	19.42
		1	37	19.41	19.12	19.66
		1	74	19.35	19.18	19.36
		36	0	18.55	18.53	18.77
		36	19	18.51	18.36	18.71
		36	39	18.37	18.20	18.69
		75	0	18.48	18.47	18.71
15M	64QAM	1	0	18.31	18.47	18.59
		1	37	17.94	18.18	18.13
		1	74	17.96	17.89	18.02
		36	0	17.50	17.14	17.57
		36	19	16.91	17.07	17.40
		36	39	16.87	16.62	16.78
		75	0	16.89	16.54	17.10
15M	256QAM	1	0	14.81	14.78	14.95
		1	37	15.09	14.90	14.92
		1	74	14.79	14.74	15.12
		36	0	13.84	14.02	14.26
		36	19	13.67	13.89	14.44
		36	39	14.10	13.89	13.95
		75	0	14.24	14.13	14.23

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	20.22	20.47	20.56
		1	24	20.26	20.43	20.53
		1	49	20.28	20.25	20.28
		25	0	19.29	19.35	19.72
		25	12	19.33	19.38	19.60
		25	25	19.43	19.27	19.42
		50	0	19.46	19.30	19.44
10M	16QAM	1	0	19.06	19.15	19.36
		1	24	19.33	18.97	19.39
		1	49	19.18	19.09	19.35
		25	0	18.21	18.42	18.52
		25	12	18.35	18.56	18.40
		25	25	18.47	18.27	18.51
		50	0	18.35	18.39	18.52
10M	64QAM	1	0	18.29	18.19	18.51
		1	24	18.12	18.13	18.26
		1	49	17.87	17.91	18.15
		25	0	17.39	17.23	17.37
		25	12	17.05	16.77	17.34
		25	25	16.68	16.42	16.89
		50	0	16.67	16.74	16.88
10M	256QAM	1	0	14.70	14.61	15.13
		1	24	14.95	14.65	15.18
		1	49	14.77	14.92	14.95
		25	0	13.75	13.81	14.40
		25	12	13.78	13.66	14.08
		25	25	14.08	13.80	14.37
		50	0	13.96	13.85	14.08

LTE Band 26 (For FCC Part 22)

BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	20.24	20.33	20.46
		1	12	20.21	20.19	20.46
		1	24	20.20	20.15	20.44
		12	0	19.17	19.23	19.28
		12	6	19.31	19.26	19.37
		12	13	19.42	19.00	19.30
		25	0	19.25	18.99	19.55
5M	16QAM	1	0	19.18	19.36	19.56
		1	12	19.34	19.15	19.34
		1	24	19.35	19.19	19.34
		12	0	18.20	18.00	18.46
		12	6	18.34	18.38	18.49
		12	13	18.20	18.07	18.48
		25	0	18.39	18.13	18.53
5M	64QAM	1	0	18.06	17.97	18.59
		1	12	17.79	17.78	18.27
		1	24	17.98	17.81	18.02
		12	0	17.39	17.29	17.54
		12	6	16.87	16.99	17.04
		12	13	16.56	16.48	16.95
		25	0	16.69	16.71	16.74
5M	256QAM	1	0	14.84	14.72	14.73
		1	12	14.86	14.48	14.84
		1	24	14.69	14.54	15.12
		12	0	13.86	14.01	14.13
		12	6	13.82	13.53	14.09
		12	13	13.83	13.95	13.70
		25	0	13.90	13.97	13.80

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	20.31	20.41	20.48
		1	7	20.30	20.36	20.46
		1	14	20.31	20.57	20.15
		8	0	19.06	19.50	19.49
		8	3	19.33	19.35	19.31
		8	7	19.29	19.54	19.25
		15	0	18.93	19.71	19.28
3M	16QAM	1	0	19.24	19.42	19.40
		1	7	18.92	19.35	19.45
		1	14	19.18	19.58	19.47
		8	0	18.36	18.68	18.63
		8	3	18.28	18.43	18.66
		8	7	18.11	18.43	18.37
		15	0	18.18	18.61	18.35
3M	64QAM	1	0	18.05	18.54	18.41
		1	7	17.92	18.11	18.37
		1	14	17.78	18.01	18.05
		8	0	16.98	17.55	17.34
		8	3	16.75	17.00	17.22
		8	7	16.21	16.77	16.87
		15	0	16.42	16.72	16.70
3M	256QAM	1	0	14.67	15.03	15.25
		1	7	14.53	15.38	14.68
		1	14	14.79	14.86	15.11
		8	0	13.80	14.12	14.03
		8	3	13.79	13.74	13.99
		8	7	13.79	14.25	13.96
		15	0	14.02	13.86	13.81

LTE Band 26 (For FCC Part 22)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	20.40	20.49	20.54
		1	2	20.37	20.50	20.40
		1	5	20.28	20.32	20.27
		3	0	20.11	20.55	20.52
		3	1	20.17	20.51	20.53
		3	3	20.26	20.65	20.55
		6	0	19.12	19.58	19.63
1.4M	16QAM	1	0	19.07	19.53	19.37
		1	2	18.90	19.31	19.32
		1	5	19.20	19.64	19.38
		3	0	19.22	19.58	19.52
		3	1	19.06	19.26	19.58
		3	3	19.03	19.47	19.19
		6	0	18.31	18.64	18.37
1.4M	64QAM	1	0	18.09	18.50	18.27
		1	2	17.98	17.98	18.20
		1	5	17.95	17.91	17.98
		3	0	18.07	18.35	18.50
		3	1	17.89	18.11	18.30
		3	3	17.21	17.73	17.71
		6	0	16.67	16.69	16.69
1.4M	256QAM	1	0	14.60	15.41	15.26
		1	2	14.69	15.04	14.95
		1	5	14.84	15.02	15.02
		3	0	14.70	15.16	14.88
		3	1	14.47	14.84	14.94
		3	3	14.75	14.99	15.31
		6	0	13.92	13.72	14.26

LTE Band 26 (For FCC Part 90)				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		26740
		Frequency (MHz)		819
10M	QPSK	1	0	19.55
		1	24	18.95
		1	49	18.84
		25	0	18.48
		25	12	18.71
		25	25	18.42
		50	0	18.72
10M	16QAM	1	0	18.55
		1	24	17.93
		1	49	17.89
		25	0	17.28
		25	12	17.44
		25	25	17.38
		50	0	17.15
10M	64QAM	1	0	16.95
		1	24	17.10
		1	49	16.82
		25	0	16.53
		25	12	16.36
		25	25	15.57
		50	0	15.88
10M	256QAM	1	0	14.33
		1	24	14.28
		1	49	14.32
		25	0	13.97
		25	12	13.94
		25	25	13.74
		50	0	13.93

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5M	QPSK	1	0	19.41	19.51	19.38
		1	12	19.44	19.37	19.46
		1	24	18.84	19.48	18.97
		12	0	18.43	18.81	18.16
		12	6	18.08	18.24	18.21
		12	13	18.36	17.87	18.04
		25	0	18.32	18.57	18.60
5M	16QAM	1	0	17.88	18.14	18.74
		1	12	18.23	18.70	18.26
		1	24	18.56	18.54	18.09
		12	0	17.16	16.97	17.00
		12	6	17.05	16.87	17.33
		12	13	17.52	17.46	17.70
		25	0	17.60	17.48	17.08
5M	64QAM	1	0	16.94	17.50	17.26
		1	12	16.91	17.25	17.17
		1	24	16.59	16.56	17.24
		12	0	16.21	16.39	15.96
		12	6	15.98	16.35	15.81
		12	13	15.20	15.21	15.82
		25	0	16.05	15.32	15.78
5M	256QAM	1	0	13.60	13.92	14.29
		1	12	14.01	13.56	13.72
		1	24	13.59	14.21	14.16
		12	0	13.58	14.01	13.48
		12	6	13.31	13.41	13.93
		12	13	13.56	13.53	14.04
		25	0	13.62	13.28	14.34

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3M	QPSK	1	0	18.94	19.49	19.46
		1	7	18.89	19.15	18.81
		1	14	19.29	18.92	19.37
		8	0	18.15	17.93	18.77
		8	3	18.04	18.27	18.78
		8	7	18.52	18.23	18.34
		15	0	18.50	18.45	18.29
3M	16QAM	1	0	18.00	18.00	18.06
		1	7	18.09	18.15	17.74
		1	14	18.12	17.98	18.35
		8	0	17.53	17.35	17.39
		8	3	17.13	16.95	16.84
		8	7	17.38	16.87	17.66
		15	0	17.11	17.18	17.26
3M	64QAM	1	0	16.69	17.30	17.61
		1	7	17.36	17.14	16.67
		1	14	16.73	17.27	17.02
		8	0	16.38	16.18	16.54
		8	3	15.54	16.32	16.00
		8	7	15.71	15.62	15.96
		15	0	15.94	15.27	15.37
3M	256QAM	1	0	13.57	13.82	13.45
		1	7	13.44	13.80	13.97
		1	14	13.44	13.64	14.04
		8	0	13.49	14.09	13.85
		8	3	13.60	13.24	14.10
		8	7	13.22	13.97	14.01
		15	0	13.37	13.97	13.73

LTE Band 26 (For FCC Part 90)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4M	QPSK	1	0	19.27	19.35	19.38
		1	2	19.24	19.26	19.31
		1	5	19.32	19.06	19.19
		3	0	19.36	18.93	19.03
		3	1	19.10	18.70	19.28
		3	3	18.88	19.13	19.70
		6	0	18.07	18.41	18.63
1.4M	16QAM	1	0	18.46	18.47	17.84
		1	2	17.90	18.50	18.15
		1	5	18.09	18.44	18.30
		3	0	18.31	18.77	18.73
		3	1	17.79	18.34	18.72
		3	3	17.97	18.15	17.95
		6	0	16.94	17.34	17.04
1.4M	64QAM	1	0	17.19	16.83	17.46
		1	2	16.87	17.04	16.80
		1	5	16.95	16.69	16.60
		3	0	17.27	17.38	17.38
		3	1	17.05	16.53	16.91
		3	3	16.55	16.20	16.35
		6	0	15.55	15.57	16.20
1.4M	256QAM	1	0	13.88	14.21	14.02
		1	2	14.20	13.76	13.47
		1	5	13.94	14.28	14.21
		3	0	13.76	14.65	14.71
		3	1	13.67	15.00	14.62
		3	3	13.74	14.75	14.80
		6	0	13.12	13.25	13.95

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132072	132322	132572
		Frequency (MHz)		1720	1745	1770
20M	QPSK	1	0	21.54	21.88	21.90
		1	50	21.49	21.54	21.78
		1	99	20.74	21.08	21.47
		50	0	20.38	20.76	21.06
		50	25	20.66	20.83	20.89
		50	50	20.73	20.51	20.78
		100	0	20.39	20.89	21.13
20M	16QAM	1	0	20.50	20.67	20.81
		1	50	20.65	20.87	21.08
		1	99	20.89	20.74	21.04
		50	0	19.83	19.70	19.90
		50	25	19.61	20.02	19.47
		50	50	19.45	19.53	19.86
		100	0	19.85	19.65	19.92
20M	64QAM	1	0	19.66	19.72	19.93
		1	50	19.14	19.57	20.08
		1	99	19.36	19.80	19.62
		50	0	18.70	18.79	18.79
		50	25	18.34	18.81	18.99
		50	50	18.34	18.65	18.63
		100	0	18.79	18.85	18.93
20M	256QAM	1	0	15.64	16.50	16.75
		1	50	15.84	16.43	16.33
		1	99	15.69	16.11	16.43
		50	0	14.86	15.54	15.88
		50	25	14.97	15.57	15.95
		50	50	15.21	15.63	15.48
		100	0	15.16	15.26	15.12

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132047	132322	132597
		Frequency (MHz)		1717.5	1745	1772.5
15M	QPSK	1	0	21.58	21.68	21.67
		1	37	21.36	21.67	21.60
		1	74	20.80	21.18	21.32
		36	0	20.69	20.88	21.10
		36	19	20.41	20.65	20.70
		36	39	20.47	20.85	20.95
		75	0	20.70	20.43	20.59
15M	16QAM	1	0	20.79	20.43	20.40
		1	37	20.56	20.34	20.96
		1	74	20.45	20.41	20.73
		36	0	19.39	19.76	19.93
		36	19	19.68	19.93	19.97
		36	39	19.54	19.86	19.91
		75	0	19.37	19.95	19.51
15M	64QAM	1	0	19.64	20.14	19.94
		1	37	19.50	19.98	19.53
		1	74	19.08	19.60	19.62
		36	0	18.49	18.82	18.94
		36	19	18.56	18.58	18.78
		36	39	18.42	19.06	18.60
		75	0	18.36	18.60	19.03
15M	256QAM	1	0	15.66	16.20	16.58
		1	37	15.98	16.12	16.75
		1	74	15.71	16.09	15.87
		36	0	14.84	15.12	15.21
		36	19	15.11	14.80	15.36
		36	39	15.41	15.43	15.50
		75	0	15.16	15.59	15.74

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		132022	132322	132622
		Frequency (MHz)		1715	1745	1775
10M	QPSK	1	0	21.21	21.53	21.88
		1	24	21.18	21.40	21.52
		1	49	20.93	21.25	21.28
		25	0	20.50	20.68	21.03
		25	12	20.70	20.83	20.81
		25	25	20.51	20.77	21.02
		50	0	20.69	20.32	20.69
10M	16QAM	1	0	20.38	20.36	20.37
		1	24	20.41	20.21	20.43
		1	49	20.26	20.75	20.45
		25	0	19.39	19.74	19.63
		25	12	19.70	19.58	19.67
		25	25	19.59	19.64	19.33
		50	0	19.50	19.47	19.75
10M	64QAM	1	0	19.55	19.79	19.92
		1	24	19.22	19.71	19.54
		1	49	18.96	19.53	19.96
		25	0	18.33	19.00	18.95
		25	12	18.28	18.87	19.01
		25	25	18.68	19.09	18.46
		50	0	18.36	18.71	19.02
10M	256QAM	1	0	15.70	16.25	16.91
		1	24	16.05	15.87	16.31
		1	49	15.30	15.94	15.99
		25	0	15.02	15.28	15.37
		25	12	15.51	15.19	15.07
		25	25	15.14	15.37	15.47
		50	0	14.96	15.19	15.39

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131997	132322	132647
		Frequency (MHz)		1712.5	1745	1777.5
5M	QPSK	1	0	21.40	21.66	21.66
		1	12	21.07	21.43	21.46
		1	24	20.63	21.51	21.40
		12	0	20.73	20.89	20.92
		12	6	20.67	20.31	20.57
		12	13	20.57	20.53	20.75
		25	0	20.51	20.30	21.00
5M	16QAM	1	0	20.73	20.87	20.47
		1	12	20.66	20.30	20.84
		1	24	20.65	20.26	20.69
		12	0	19.67	19.41	19.43
		12	6	19.67	19.42	19.63
		12	13	19.66	19.59	19.57
		25	0	19.19	19.55	19.69
5M	64QAM	1	0	19.07	19.52	20.05
		1	12	19.58	19.43	19.56
		1	24	19.19	19.41	19.64
		12	0	18.70	18.78	18.61
		12	6	18.75	19.04	18.92
		12	13	18.61	18.92	19.00
		25	0	18.23	18.56	18.94
5M	256QAM	1	0	15.62	16.56	16.91
		1	12	16.05	15.90	16.45
		1	24	15.09	15.82	15.66
		12	0	15.22	15.38	15.13
		12	6	15.32	15.27	15.65
		12	13	15.19	15.19	15.88
		25	0	15.07	15.22	15.70

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131987	132322	132657
		Frequency (MHz)		1711.5	1745	1778.5
3M	QPSK	1	0	21.40	21.76	21.70
		1	7	21.13	21.53	21.62
		1	14	20.55	21.07	21.10
		8	0	20.61	20.56	20.86
		8	3	20.39	20.77	20.91
		8	7	20.61	20.58	20.78
		15	0	20.39	20.28	20.83
3M	16QAM	1	0	20.98	20.83	20.53
		1	7	20.76	20.22	20.70
		1	14	20.59	20.38	20.98
		8	0	19.43	19.44	19.75
		8	3	19.24	19.50	19.39
		8	7	19.50	19.52	19.63
		15	0	19.39	19.69	19.51
3M	64QAM	1	0	19.71	19.78	19.86
		1	7	19.12	19.72	19.75
		1	14	18.86	19.72	19.68
		8	0	18.55	19.09	18.89
		8	3	18.73	18.67	18.56
		8	7	18.18	18.78	18.66
		15	0	18.16	18.67	18.49
3M	256QAM	1	0	15.88	16.27	16.13
		1	7	15.92	16.44	16.36
		1	14	15.35	15.68	15.68
		8	0	15.15	15.09	15.38
		8	3	14.94	15.38	15.04
		8	7	15.16	15.25	15.32
		15	0	15.08	15.39	15.47

LTE Band 66						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		131979	132322	132665
		Frequency (MHz)		1710.7	1745	1779.3
1.4M	QPSK	1	0	21.46	21.65	21.68
		1	2	20.87	21.60	21.66
		1	5	20.73	21.41	21.68
		3	0	21.51	21.70	21.62
		3	1	21.76	21.40	21.72
		3	3	21.44	21.78	21.51
		6	0	20.54	20.72	20.90
1.4M	16QAM	1	0	20.34	20.75	20.86
		1	2	20.27	20.61	20.47
		1	5	20.72	20.54	20.80
		3	0	20.27	20.41	20.67
		3	1	20.24	20.47	20.64
		3	3	20.59	20.54	20.37
		6	0	19.68	19.39	19.83
1.4M	64QAM	1	0	19.28	19.95	19.53
		1	2	19.20	19.59	19.63
		1	5	19.26	19.44	19.56
		3	0	19.30	19.82	19.86
		3	1	19.44	19.80	19.82
		3	3	19.52	19.83	19.85
		6	0	18.65	18.86	18.96
1.4M	256QAM	1	0	16.00	16.17	16.44
		1	2	15.55	15.95	16.07
		1	5	15.54	15.59	16.23
		3	0	15.96	15.61	15.68
		3	1	16.11	15.50	15.67
		3	3	15.59	15.52	15.71
		6	0	15.33	15.58	15.57

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

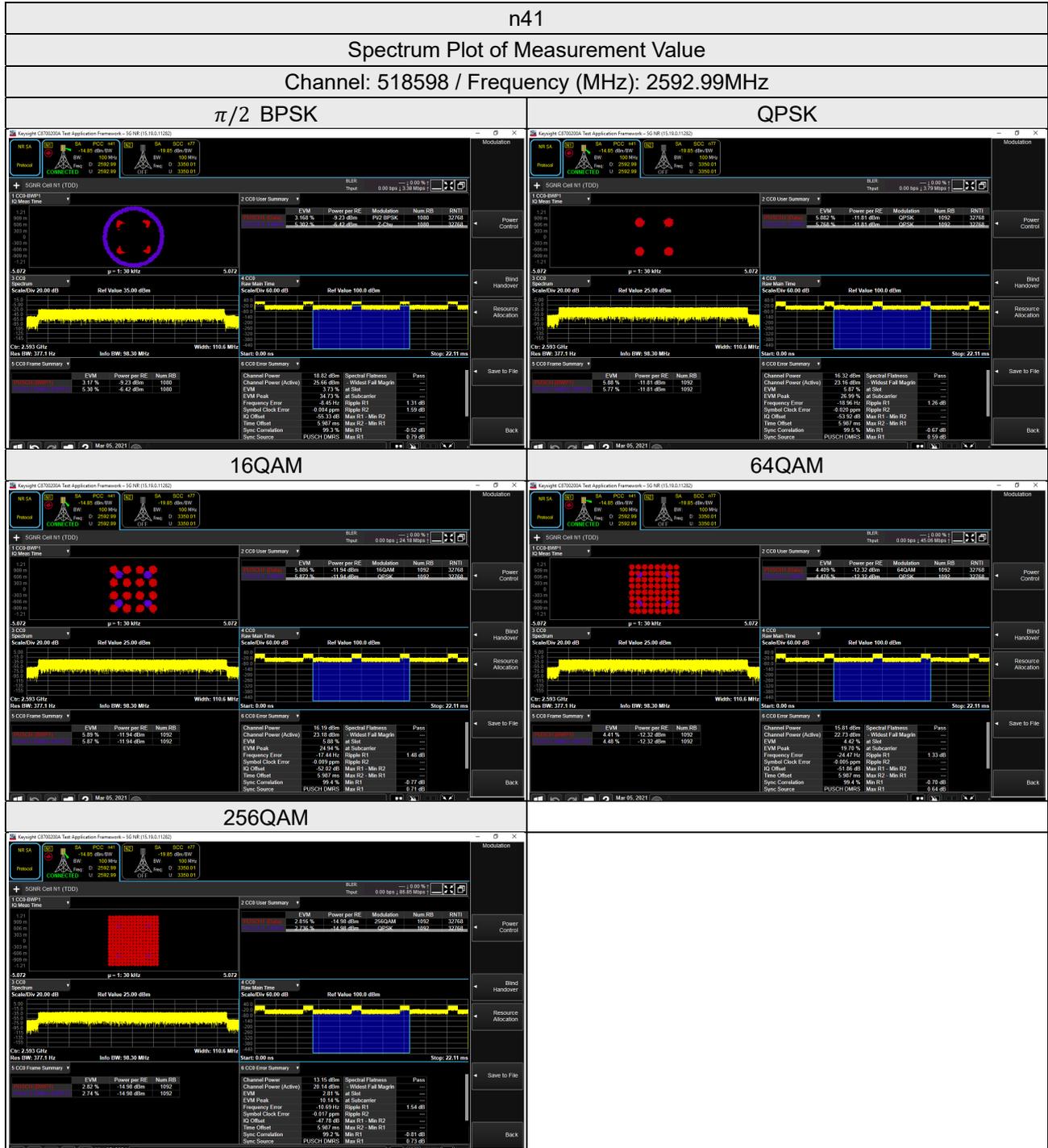
4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup



4.2.4 Test Results



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

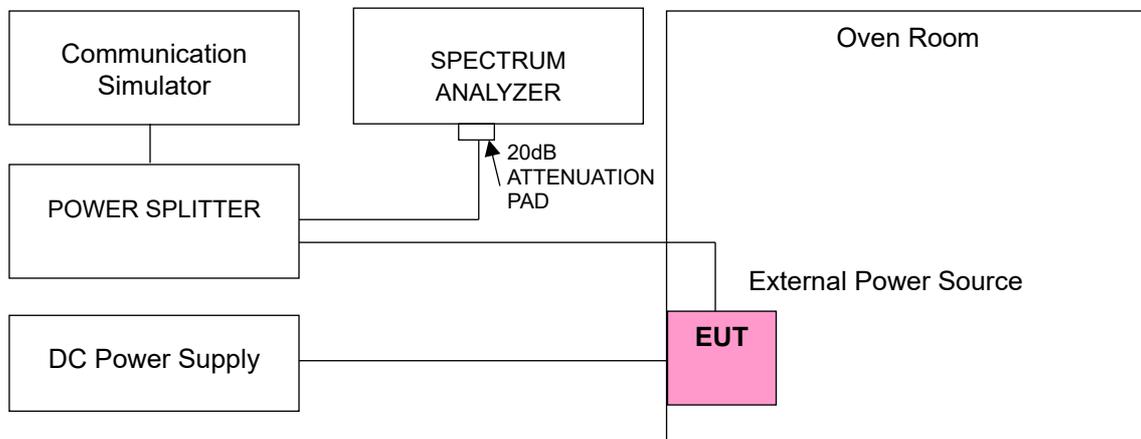
Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
5G Wireless Test Platforms Keysight	E7515B	MY60102114	May 28, 2020	May 27, 2021
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 24, 2020	Dec. 23, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021
DC Power Supply Topward	6306A	727263	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.4 Conducted Setup



4.3.5 Test Results

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2506.020003	0.001	2679.990000	0.001
7.74	2506.020004	0.001	2679.990000	0.001
6.58	2506.020003	0.001	2679.990000	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 20 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2506.020003	0.001	2679.990000	0.001
-20	2506.020002	0.001	2679.990000	0.001
-10	2506.020001	0.000	2679.990000	0.001
0	2506.020002	0.001	2679.990000	0.001
10	2506.019997	-0.001	2679.990000	-0.001
20	2506.019997	-0.001	2679.990000	-0.001
30	2506.019999	-0.001	2679.990000	-0.001
40	2506.019999	-0.001	2679.990000	-0.001
50	2506.019997	-0.001	2679.990000	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 30 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2511.000003	0.001	2674.980002	0.001
7.74	2511.000003	0.001	2674.980003	0.001
6.58	2511.000003	0.001	2674.980003	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 30 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2511.000001	0.000	2674.980003	0.001
-20	2511.000002	0.001	2674.980001	0.000
-10	2511.000003	0.001	2674.980002	0.001
0	2511.000002	0.001	2674.980002	0.001
10	2510.999998	-0.001	2674.979997	-0.001
20	2510.999998	-0.001	2674.979998	-0.001
30	2510.999997	-0.001	2674.979998	-0.001
40	2510.999996	-0.001	2674.979998	-0.001
50	2510.999999	0.000	2674.979997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2516.010003	0.001	2670.000004	0.001
7.74	2516.010003	0.001	2670.000002	0.001
6.58	2516.010004	0.002	2670.000003	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 40 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2516.010001	0.000	2670.000001	0.000
-20	2516.010002	0.001	2670.000002	0.001
-10	2516.010002	0.001	2670.000003	0.001
0	2516.010003	0.001	2670.000001	0.001
10	2516.009997	-0.001	2669.999999	0.000
20	2516.009997	-0.001	2669.999998	-0.001
30	2516.009997	-0.001	2669.999999	0.000
40	2516.009999	-0.001	2669.999998	-0.001
50	2516.009997	-0.001	2669.999999	0.000

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2521.020004	0.001	2664.990004	0.001
7.74	2521.020003	0.001	2664.990003	0.001
6.58	2521.020002	0.001	2664.990003	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 50 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2521.020003	0.001	2664.990002	0.001
-20	2521.020002	0.001	2664.990001	0.000
-10	2521.020002	0.001	2664.990004	0.001
0	2521.020003	0.001	2664.990002	0.001
10	2521.019997	-0.001	2664.989999	-0.001
20	2521.019997	-0.001	2664.989999	-0.001
30	2521.019999	0.000	2664.989998	-0.001
40	2521.019998	-0.001	2664.989999	0.000
50	2521.019999	0.000	2664.989999	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2526.000003	0.001	2659.980001	0.000
7.74	2526.000004	0.001	2659.980003	0.001
6.58	2526.000003	0.001	2659.980002	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 60 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2526.000004	0.002	2659.980001	0.000
-20	2526.000003	0.001	2659.980002	0.001
-10	2526.000003	0.001	2659.980002	0.001
0	2526.000003	0.001	2659.980002	0.001
10	2525.999999	0.000	2659.979997	-0.001
20	2525.999999	-0.001	2659.979999	0.000
30	2525.999997	-0.001	2659.979998	-0.001
40	2525.999997	-0.001	2659.979998	-0.001
50	2525.999998	-0.001	2659.979997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2536.020003	0.001	2649.990003	0.001
7.74	2536.020001	0.000	2649.990002	0.001
6.58	2536.020002	0.001	2649.990003	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 80 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2536.020003	0.001	2649.990004	0.001
-20	2536.020003	0.001	2649.990001	0.000
-10	2536.020003	0.001	2649.990003	0.001
0	2536.020001	0.001	2649.990001	0.000
10	2536.019998	-0.001	2649.989999	0.000
20	2536.019996	-0.002	2649.989998	-0.001
30	2536.019997	-0.001	2649.989996	-0.001
40	2536.019997	-0.001	2649.989998	-0.001
50	2536.019996	-0.002	2649.989998	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2541.000003	0.001	2644.980003	0.001
7.74	2541.000003	0.001	2644.980003	0.001
6.58	2541.000002	0.001	2644.980004	0.001

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 90 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2541.000001	0.000	2644.980002	0.001
-20	2541.000004	0.001	2644.980003	0.001
-10	2541.000003	0.001	2644.980001	0.000
0	2541.000001	0.001	2644.980004	0.001
10	2540.999998	-0.001	2644.979998	-0.001
20	2540.999999	0.000	2644.979997	-0.001
30	2540.999997	-0.001	2644.979999	0.000
40	2540.999998	-0.001	2644.979998	-0.001
50	2540.999997	-0.001	2644.979997	-0.001

Frequency Error vs. Voltage

Voltage (Vdc)	n41			
	Channel Bandwidth 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
8.90	2546.010004	0.001	2640.000002	0.001
7.74	2546.010004	0.001	2640.000002	0.001
6.58	2546.010003	0.001	2640.000001	0.000

Note: The applicant defined the normal working voltage is from 6.58Vdc to 8.90Vdc.

Frequency Error vs. Temperature

Temp. (°C)	n41			
	Channel Bandwidth 100 MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2546.010001	0.001	2640.000001	0.001
-20	2546.010003	0.001	2640.000002	0.001
-10	2546.010002	0.001	2640.000003	0.001
0	2546.010003	0.001	2640.000002	0.001
10	2546.009998	-0.001	2639.999998	-0.001
20	2546.009997	-0.001	2639.999999	0.000
30	2546.009999	0.000	2639.999998	-0.001
40	2546.009996	-0.001	2639.999997	-0.001
50	2546.009998	-0.001	2639.999998	-0.001

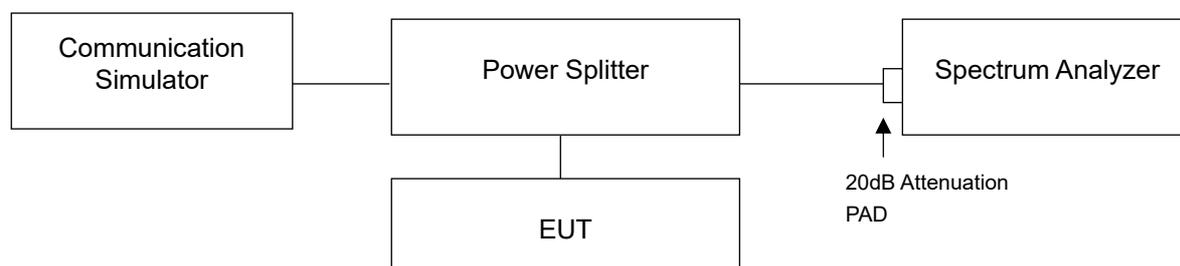
4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Measurement method, please refer to section 5.4.4 of ANSI C63.26. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

4.4.2 Test Setup



4.4.3 Test Result

Occupied Bandwidth

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	18.02	18.19	18.19	18.19	18.20
518598	2592.99	18.03	18.19	18.19	18.19	18.20
535998	2679.99	18.01	18.20	18.24	18.19	18.19
n41, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502200	2511.00	27.49	27.86	27.85	27.86	27.86
518598	2592.99	27.52	27.85	27.85	27.85	27.85
534996	2674.98	27.62	27.86	27.86	27.86	27.85
n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	37.16	37.82	37.81	37.81	37.80
518598	2592.99	37.32	37.81	37.81	37.81	37.80
534000	2670.00	37.45	37.81	37.82	37.83	37.81
n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	46.85	47.48	47.47	47.48	47.48
518598	2592.99	47.02	47.47	47.47	47.47	47.47
532998	2664.99	46.90	47.48	47.47	47.47	47.47
n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	57.88	57.87	57.87	57.87	57.87
518598	2592.99	57.72	57.87	57.86	57.84	57.86
531996	2659.98	57.70	57.87	57.87	57.86	57.87

n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	76.96	77.46	77.45	77.45	77.45
518598	2592.99	76.95	77.49	77.46	77.48	77.47
529998	2649.99	76.95	77.47	77.48	77.48	77.48
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	86.55	87.30	87.28	87.28	87.30
518598	2592.99	86.80	87.50	87.50	87.50	87.50
528996	2644.98	86.85	87.51	87.49	87.49	87.52
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	96.18	97.30	97.31	97.31	97.33
518598	2592.99	96.46	97.35	97.35	97.35	97.35
528000	2640.00	96.55	97.35	97.37	97.36	97.37

Spectrum Plot of Worst Value

20MHz / 16QAM



30MHz / 64QAM



40MHz / 64QAM



50MHz / 256QAM



60MHz / $\pi/2$ BPSK



80MHz / QPSK



90MHz / 256QAM



100MHz / 16QAM



26dB Bandwidth

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	18.62	18.99	18.99	19.00	18.94
518598	2592.99	18.55	19.01	18.97	19.03	18.95
535998	2679.99	18.54	19.08	19.06	19.03	19.05
n41, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502200	2511.00	27.78	28.97	28.92	28.90	28.87
518598	2592.99	27.80	28.91	28.87	28.85	28.86
534996	2674.98	27.78	28.91	28.90	28.86	28.83
n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	37.01	39.20	39.19	39.19	39.20
518598	2592.99	37.02	39.19	39.19	39.21	39.17
534000	2670.00	37.03	39.20	39.21	39.22	39.20
n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	47.27	49.11	49.12	49.13	49.10
518598	2592.99	47.26	49.13	49.12	49.12	49.12
532998	2664.99	47.25	49.15	49.13	49.14	49.12
n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	59.75	59.75	59.75	59.75	59.74
518598	2592.99	59.73	59.78	59.75	59.78	59.79
531996	2659.98	59.74	59.79	59.78	59.77	59.78

n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	79.63	79.98	79.97	79.97	79.97
518598	2592.99	79.62	80.00	79.98	80.01	80.01
529998	2649.99	79.59	80.01	80.00	80.00	80.02
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	89.54	90.30	90.30	90.29	90.29
518598	2592.99	89.56	90.34	90.33	90.31	90.33
528996	2644.98	89.55	90.36	90.34	90.33	90.35
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	99.43	100.50	100.50	100.50	100.60
518598	2592.99	99.45	100.60	100.60	100.60	100.60
528000	2640.00	99.48	100.60	100.60	100.60	100.60

Spectrum Plot of Worst Value

20MHz / QPSK



30MHz / QPSK



40MHz / 64QAM



50MHz / QPSK



60MHz / QPSK



80MHz / 256QAM



90MHz / QPSK



100MHz / 16QAM

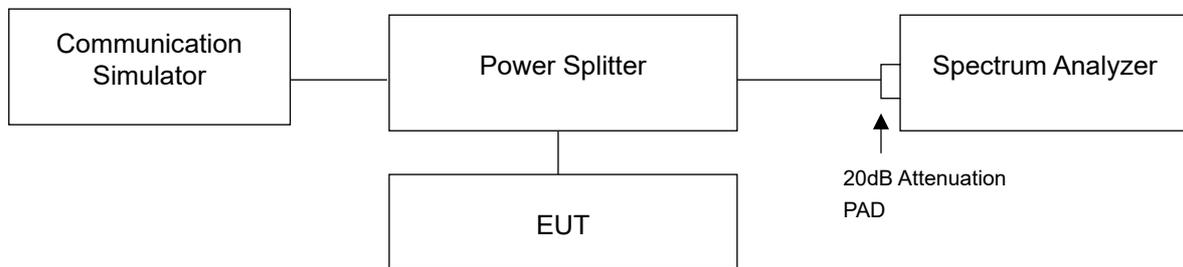


4.5 Out-of-Band Emissions Measurement

4.5.1 Limits of Out-of-Band Emissions Measurement

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a 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. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

4.5.2 Test Setup



4.5.3 Test Procedures

- a. The testing follows ANSI C63.26 section 5.7
- b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- c. The band edges of low and high channels for the highest RF powers were measured.
- d. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- f. Set spectrum analyzer with RMS detector.
- g. Checked that all the results comply with the emission limit line.

4.5.4 Test Results

