FCC

RF Test Report

Product Type	:	LE910-NA V2
Applicant	:	Telit Communications S.p.A.
Address	:	Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name	:	Telit
Model Number	:	LE910-NA V2
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2014 FCC 47 CFR PART 24E: Oct, 2014 FCC 47 CFR PART 27: Oct. 2014 ANSI/TIA/EIA-603-C
Application Purpose	:	Original
Receive Date	:	Jun. 04, 2015
Test Period	:	Jun. 11 ~ Aug. 03, 2015
Issue Date	:	Aug. 04, 2015

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Jul. 28, 2015	Initial Issue	
01	Aug. 04, 2015	Revised report information.	Snow Wang

Verification of Compliance

Issued Date: 08/04/2015

Product Type	:	LE910-NA V2
Applicant	:	Telit Communications S.p.A.
Address	:	Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name	:	Telit
Model Number	:	LE910-NA V2
EUT Rated Voltage	:	DC 3.4V / 3.8V / 4.2V
Test Voltage	:	DC 3.8V
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2014 FCC 47 CFR PART 24E: Oct, 2014 FCC 47 CFR PART 27: Oct. 2014 ANSI/TIA/EIA-603-C
Test Result	:	Complied
Application Purpose	:	Original
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA/EIA-603-C and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 27L.
The test results of this report relate only to the tested sample identified in this report.

Approved By	:	Fly Lu	Reviewed By	:	Eric Ou Yang
(Manager)		(Fly Lu)	(Testing Engineer)		(Eric Ou Yang)

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1 General Information

1.1. EUT Description

Applicant		Telit Communications S.p.A.			
Applicant Address		Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy			
Manufacturer		Telit Communications S.p.A.			
Manufacturer Address		Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy			
Product Type		LE910-NA V2			
Trade Name		Telit			
Model Number		LE910-NA V2			
Mode	LTE	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		2	1850.7 ~ 1909.3	1930.7 ~ 1989.3	QPSK, 16QAM
		4	1710.7 ~ 1754.3	2110.7 ~ 2154.3	QPSK, 16QAM
		5	824.7 ~ 848.3	869.7 ~ 893.3	QPSK, 16QAM
		12	699 ~ 716	729 ~ 746	QPSK, 16QAM
		13	777 ~ 787	746 ~ 756	QPSK, 16QAM
		17	704.0 ~ 715.9	734.0 ~ 745.9	QPSK, 16QAM
Channel Bandwidth		LTE Band 2	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 4	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 5	1.4M, 3M, 5MHz, 10MHz		
		LTE Band 12	1.4M, 3M, 5MHz, 10MHz		
		LTE Band 13	5MHz, 10MHz		
		LTE Band 17	5MHz, 10MHz		
Antenna Gain		LTE Band 2	2.14 dBi		
		LTE Band 4	2.14 dBi		
		LTE Band 5	2.14 dBi		
		LTE Band 12	2.14 dBi		
		LTE Band 13	2.14 dBi		
		LTE Band 17	2.14 dBi		

Max. Conducted Output Average Power	LTE Band 2 (Channel Bandwidth 1.4MHz)	0.218	W
	LTE Band 2 (Channel Bandwidth 3MHz)	0.218	W
	LTE Band 2 (Channel Bandwidth 5MHz)	0.219	W
	LTE Band 2 (Channel Bandwidth 10MHz)	0.214	W
	LTE Band 2 (Channel Bandwidth 15MHz)	0.220	W
	LTE Band 2 (Channel Bandwidth 20MHz)	0.219	W
	LTE Band 4 (Channel Bandwidth 1.4MHz)	0.205	W
	LTE Band 4 (Channel Bandwidth 3MHz)	0.199	W
	LTE Band 4 (Channel Bandwidth 5MHz)	0.200	W
	LTE Band 4 (Channel Bandwidth 10MHz)	0.203	W
	LTE Band 4 (Channel Bandwidth 15MHz)	0.205	W
	LTE Band 4 (Channel Bandwidth 20MHz)	0.203	W
	LTE Band 5 (Channel Bandwidth 1.4MHz)	0.191	W
	LTE Band 5 (Channel Bandwidth 3MHz)	0.195	W
	LTE Band 5 (Channel Bandwidth 5MHz)	0.189	W
	LTE Band 5 (Channel Bandwidth 10MHz)	0.190	W
	LTE Band 12 (Channel Bandwidth 1.4MHz)	0.191	W
	LTE Band 12 (Channel Bandwidth 3MHz)	0.193	W
	LTE Band 12 (Channel Bandwidth 5MHz)	0.189	W
	LTE Band 12 (Channel Bandwidth 10MHz)	0.190	W
	LTE Band 13 (Channel Bandwidth 5MHz)	0.194	W
	LTE Band 13 (Channel Bandwidth 10MHz)	0.188	W
	LTE Band 17 (Channel Bandwidth 5MHz)	0.195	W
	LTE Band 17 (Channel Bandwidth 10MHz)	0.197	W

Max. E.R.P. / E.I.R.P.	LTE Band 2 (Channel Bandwidth 1.4MHz)	0.356 W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 3MHz)	0.357 W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 5MHz)	0.358 W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 10MHz)	0.350 W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 15MHz)	0.361 W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 20MHz)	0.359 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 1.4MHz)	0.336 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 3MHz)	0.326 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 5MHz)	0.327 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 10MHz)	0.332 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 15MHz)	0.335 W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 20MHz)	0.333 W (E.I.R.P.)
	LTE Band 5 (Channel Bandwidth 1.4MHz)	0.191 W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 3MHz)	0.195 W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 5MHz)	0.189 W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 10MHz)	0.190 W (E.R.P.)
	LTE Band 12 (Channel Bandwidth 1.4MHz)	0.313 W (E.R.P.)
	LTE Band 12 (Channel Bandwidth 3MHz)	0.316 W (E.R.P.)
	LTE Band 12 (Channel Bandwidth 5MHz)	0.310 W (E.R.P.)
	LTE Band 12 (Channel Bandwidth 10MHz)	0.311 W (E.R.P.)
	LTE Band 13 (Channel Bandwidth 5MHz)	0.318 W (E.R.P.)
	LTE Band 13 (Channel Bandwidth 10MHz)	0.308 W (E.R.P.)
	LTE Band 17 (Channel Bandwidth 5MHz)	0.195 W (E.R.P.)
	LTE Band 17 (Channel Bandwidth 10MHz)	0.197 W (E.R.P.)

1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

LTE Band 2						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18607	1850.7	18615	1851.5	18625	1852.5
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19193	1909.3	19185	1908.5	19175	1907.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18650	1855.0	18675	1857.5	18700	1860.0
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 4						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.0
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20350	1750.0	20325	1747.5	20300	1745.0

LTE Band 5				
Channel Bandwidth	1.4MHz		3MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20407	824.7	20415	825.5
Middle CH	20525	836.5	20525	836.5
High CH	20643	848.3	20635	847.5
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20425	826.5	20450	829.0
Middle CH	20525	836.5	20525	836.5
High CH	20625	846.5	20600	844.0

LTE Band 12				
Channel Bandwidth	1.4MHz		3MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23017	699.7	23025	700.5
Middle CH	23095	707.5	23095	707.5
High CH	23173	715.3	23165	714.5
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23035	701.5	23060	704.0
Middle CH	23095	707.5	23095	707.5
High CH	23155	713.5	23130	711.0

LTE Band 13				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23205	779.5	---	---
Middle CH	23230	782.0	23230	782.0
High CH	23255	784.5	---	---

LTE Band 17				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23755	706.5	23780	709.0
Middle CH	23790	710.0	23790	710.0
High CH	23825	713.5	23800	711.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission: 30MHz to 19000 MHz.

Band	Channel Bandwidth	Test Modes	
LTE Band 2	1.4 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 8) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 38) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 38, RB Offset 0) Link ☐ LTE(RB Size 38, RB Offset 18) Link ☐ LTE(RB Size 38, RB Offset 37) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 4	1.4 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 8) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 38) Link ☐ LTE(RB Size 1, RB Offset 74) Link ☐ LTE(RB Size 38, RB Offset 0) Link ☐ LTE(RB Size 38, RB Offset 18) Link ☐ LTE(RB Size 38, RB Offset 37) Link ☐ LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 1, RB Offset 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 50) Link ☐ LTE(RB Size 100, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 5	1.4 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 8) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

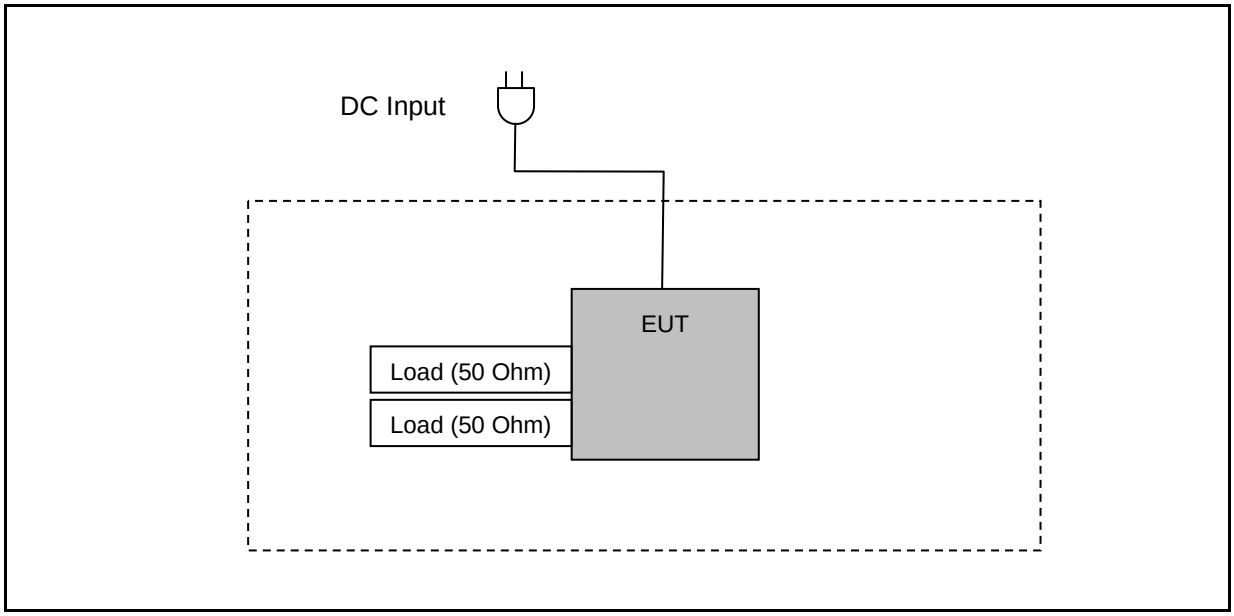
Band	Channel Bandwidth	Test Modes	
LTE Band 12	1.4 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 2) Link ☐ LTE(RB Size 1, RB Offset 5) Link ☐ LTE(RB Size 3, RB Offset 0) Link ☐ LTE(RB Size 3, RB Offset 1) Link ☐ LTE(RB Size 3, RB Offset 3) Link ☐ LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 8) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 13	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 17	5 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 12) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 12, RB Offset 0) Link ☐ LTE(RB Size 12, RB Offset 6) Link ☐ LTE(RB Size 12, RB Offset 13) Link ☐ LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 24) Link ☐ LTE(RB Size 1, RB Offset 49) Link ☐ LTE(RB Size 25, RB Offset 0) Link ☐ LTE(RB Size 25, RB Offset 12) Link ☐ LTE(RB Size 25, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMW500) as shown on 1.4.
2	Turn on the power of all equipment.
3	EUT run test program test.

1.4. Configuration of Test System Details



1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Pass
§22.913 §24.232 §27. 50	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §22.355 §24.235 §27. 54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Pass
§24.232 §27.50	Peak to average ratio	Pass
§22.917 §24.238 §27.53	Band Edge	Pass
§2.1051 §22.917 §24.238 §27.53	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §27.53	Radiated Spurious Emissions	Pass

2 Conducted Output Average Power Test

2.1. Limit

N/A

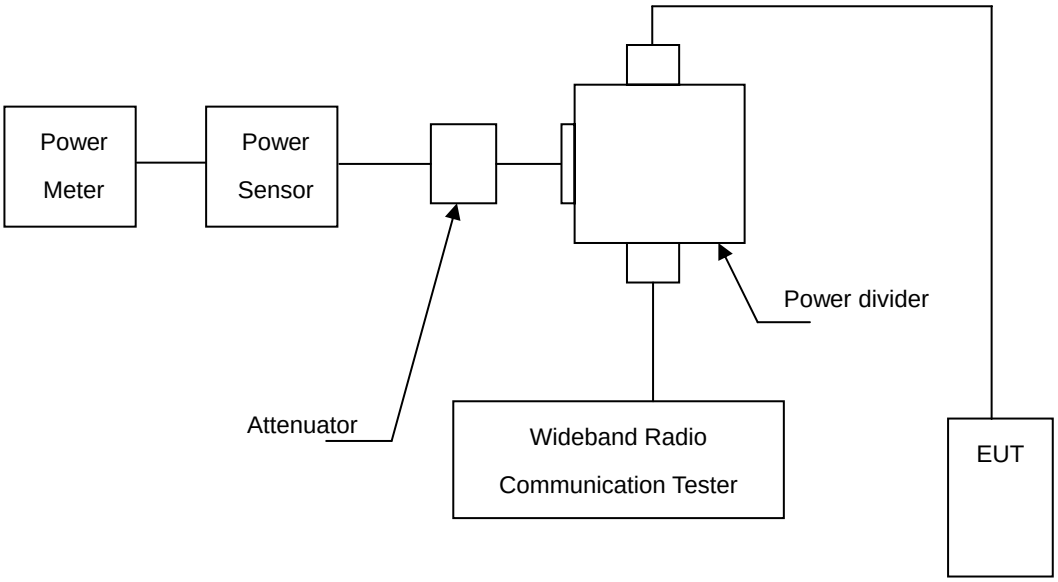
2.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Tester	R & S	CMW500	103168	11/05/2014	(1)
Wideband Power Sensor	Agilent	N1921A	MY45241957	12/15/2014	(1)
Single Channel PK Power Meter	Agilent	N1911A	MY45101619	12/15/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.

b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

2.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

2.6. Test Result

Model Number	LE910-NA V2		
Test Item	Conducted Output Average Power		
Date of Test	06/18/2015	Test Site	TE05

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	1.4 MHz	QPSK	18607	1850.7	1	0	23.25	0.211
					1	2	23.21	0.209
					1	5	23.17	0.207
					3	0	23.14	0.206
					3	1	23.09	0.204
					3	3	23.07	0.203
					6	0	22.39	0.173
			18900	1880.0	1	0	**23.38**	**0.218**
					1	2	23.37	0.217
					1	5	23.35	0.216
					3	0	23.31	0.214
					3	1	23.29	0.213
					3	3	23.25	0.211
					6	0	22.42	0.175
			19193	1909.3	1	0	23.09	0.204
					1	2	23.08	0.203
					1	5	23.05	0.202
					3	0	23.04	0.201
					3	1	23.01	0.200
					3	3	22.99	0.199
					6	0	22.22	0.167
		16QAM	18607	1850.7	1	0	22.61	0.182
					1	2	22.35	0.172
					1	5	22.33	0.171
					3	0	22.21	0.166
					3	1	22.20	0.166
					3	3	22.18	0.165
					6	0	21.43	0.139
			18900	1880.0	1	0	22.66	0.185
					1	2	22.64	0.184
					1	5	22.50	0.178
					3	0	22.49	0.177
					3	1	22.48	0.177
					3	3	22.17	0.165
					6	0	21.50	0.141
			19193	1909.3	1	0	22.26	0.168
					1	2	22.12	0.163
					1	5	22.10	0.162
					3	0	22.09	0.162
					3	1	22.06	0.161
					3	3	22.05	0.160
					6	0	21.47	0.140

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	3 MHz	QPSK	18615	1851.5	1	0	23.23	0.210
					1	8	23.21	0.209
					1	14	23.15	0.207
					8	0	22.34	0.171
					8	4	22.32	0.171
					8	7	22.22	0.167
					15	0	22.19	0.166
			18900	1880.0	1	0	**23.39**	**0.218**
					1	8	23.30	0.214
					1	14	23.26	0.212
					8	0	22.41	0.174
					8	4	22.40	0.174
					8	7	22.39	0.173
					15	0	22.37	0.173
			19185	1908.5	1	0	23.21	0.209
					1	8	23.10	0.204
					1	14	22.96	0.198
					8	0	22.35	0.172
					8	4	22.32	0.171
					8	7	22.27	0.169
					15	0	22.22	0.167
		16QAM	18615	1851.5	1	0	22.47	0.177
					1	8	22.26	0.168
					1	14	22.09	0.162
					8	0	21.40	0.138
					8	4	21.39	0.138
					8	7	21.37	0.137
					15	0	21.29	0.135
			18900	1880.0	1	0	22.56	0.180
					1	8	22.22	0.167
					1	14	22.12	0.163
					8	0	21.46	0.140
					8	4	21.43	0.139
					8	7	21.42	0.139
					15	0	21.41	0.138
			19185	1908.5	1	0	22.37	0.173
					1	8	22.34	0.171
					1	14	21.79	0.151
					8	0	21.38	0.137
					8	4	21.33	0.136
					8	7	21.32	0.136
					15	0	21.29	0.135

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz	QPSK	18625	1852.5	1	0	23.22	0.210
					1	12	23.16	0.207
					1	24	22.95	0.197
					12	0	22.36	0.172
					12	6	22.26	0.168
					12	13	22.25	0.168
					25	0	22.18	0.165
			18900	1880.0	1	0	**23.40**	**0.219**
					1	12	23.36	0.217
					1	24	23.21	0.209
					12	0	22.46	0.176
					12	6	22.46	0.176
					12	13	22.44	0.175
					25	0	22.32	0.171
			19175	1907.5	1	0	23.24	0.211
					1	12	23.17	0.207
					1	24	22.98	0.199
					12	0	22.35	0.172
					12	6	22.34	0.171
					12	13	22.31	0.170
					25	0	22.29	0.169
		16QAM	18625	1852.5	1	0	22.46	0.176
					1	12	22.21	0.166
					1	24	22.02	0.159
					12	0	21.44	0.139
					12	6	21.43	0.139
					12	13	21.34	0.136
					25	0	21.24	0.133
			18900	1880.0	1	0	22.67	0.185
					1	12	22.28	0.169
					1	24	22.07	0.161
					12	0	21.44	0.139
					12	6	21.41	0.138
					12	13	21.38	0.137
					25	0	21.37	0.137
			19175	1907.5	1	0	22.49	0.177
					1	12	22.22	0.167
					1	24	21.76	0.150
					12	0	21.53	0.142
					12	6	21.50	0.141
					12	11	21.43	0.139
					25	0	21.34	0.136

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	10 MHz	QPSK	18650	1855.0	1	0	**23.30**	**0.214**
					1	24	23.20	0.209
					1	49	23.00	0.200
					25	0	22.33	0.171
					25	12	22.30	0.170
					25	25	22.25	0.168
					50	0	22.23	0.167
			18900	1880.0	1	0	23.29	0.213
					1	24	23.28	0.213
					1	49	23.24	0.211
					25	0	22.41	0.174
					25	12	22.41	0.174
					25	25	22.38	0.173
					50	0	22.36	0.172
			19150	1905.0	1	0	23.25	0.211
					1	24	23.17	0.207
					1	49	22.89	0.195
					25	0	22.43	0.175
					25	12	22.29	0.169
					25	25	22.29	0.169
					50	0	22.22	0.167
		16QAM	18650	1855.0	1	0	22.32	0.171
					1	24	22.19	0.166
					1	49	22.08	0.161
					25	0	21.51	0.142
					25	12	21.51	0.142
					25	25	21.31	0.135
					50	0	21.27	0.134
			18900	1880.0	1	0	22.54	0.179
					1	24	22.51	0.178
					1	49	22.15	0.164
					25	0	21.57	0.144
					25	12	21.48	0.141
					25	25	21.44	0.139
					50	0	21.42	0.139
			19150	1905.0	1	0	22.42	0.175
					1	24	22.23	0.167
					1	49	21.79	0.151
					25	0	21.43	0.139
					25	12	21.41	0.138
					25	25	21.39	0.138
					50	0	21.38	0.137

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz	QPSK	18675	1857.5	1	0	23.33	0.215
					1	38	23.29	0.213
					1	74	23.22	0.210
					38	0	22.34	0.171
					38	18	22.32	0.171
					38	37	22.32	0.171
					75	0	22.30	0.170
			18900	1880.0	1	0	**23.43**	**0.220**
					1	38	23.32	0.215
					1	74	23.28	0.213
					38	0	22.48	0.177
					38	18	22.43	0.175
					38	37	22.40	0.174
					75	0	22.39	0.173
			19125	1902.5	1	0	23.38	0.218
					1	38	23.14	0.206
					1	74	23.02	0.200
					38	0	22.32	0.171
					38	18	22.31	0.170
					38	37	22.29	0.169
					75	0	22.27	0.169
		16QAM	18675	1857.5	1	0	22.25	0.168
					1	38	22.23	0.167
					1	74	22.00	0.158
					38	0	21.52	0.142
					38	18	21.51	0.142
					38	37	21.37	0.137
					75	0	21.29	0.135
			18900	1880.0	1	0	22.59	0.182
					1	38	22.49	0.177
					1	74	22.29	0.169
					38	0	21.53	0.142
					38	18	21.51	0.142
					38	37	21.48	0.141
					75	0	21.47	0.140
			19125	1902.5	1	0	22.20	0.166
					1	38	22.13	0.163
					1	74	22.09	0.162
					38	0	21.51	0.142
					38	18	21.48	0.141
					38	37	21.46	0.140
					75	0	21.45	0.140

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	20 MHz	QPSK	18700	1860.0	1	0	23.31	0.214
					1	49	23.27	0.212
					1	99	23.22	0.210
					50	0	22.32	0.171
					50	25	22.19	0.166
					50	50	22.19	0.166
					100	0	22.17	0.165
			18900	1880.0	1	0	**23.41**	**0.219**
					1	49	23.38	0.218
					1	99	23.24	0.211
					50	0	22.44	0.175
					50	25	22.39	0.173
					50	50	22.33	0.171
					100	0	22.32	0.171
			19100	1900.0	1	0	23.26	0.212
					1	49	23.15	0.207
					1	99	23.02	0.200
					50	0	22.34	0.171
					50	25	22.32	0.171
					50	50	22.28	0.169
					100	0	22.27	0.169
		16QAM	18700	1860.0	1	0	22.37	0.173
					1	49	22.22	0.167
					1	99	22.17	0.165
					50	0	21.41	0.138
					50	25	21.35	0.136
					50	50	21.34	0.136
					100	0	21.33	0.136
			18900	1880.0	1	0	22.38	0.173
					1	49	22.37	0.173
					1	99	22.28	0.169
					50	0	21.49	0.141
					50	25	21.46	0.140
					50	50	21.43	0.139
					100	0	21.35	0.136
			19100	1900.0	1	0	22.77	0.189
					1	49	22.17	0.165
					1	99	22.12	0.163
					50	0	21.44	0.139
					50	25	21.42	0.139
					50	50	21.37	0.137
					100	0	21.35	0.136

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	1.4 MHz	QPSK	19957	1710.7	1	0	**23.12**	**0.205**
					1	2	23.09	0.204
					1	5	23.07	0.203
					3	0	23.05	0.202
					3	1	23.01	0.200
					3	3	22.99	0.199
					6	0	22.13	0.163
			20175	1732.5	1	0	22.92	0.196
					1	2	22.89	0.195
					1	5	22.87	0.194
					3	0	22.84	0.192
					3	1	22.81	0.191
					3	3	22.82	0.191
					6	0	22.01	0.159
			20393	1754.3	1	0	22.99	0.199
					1	2	22.90	0.195
					1	5	22.89	0.195
					3	0	22.87	0.194
					3	1	22.86	0.193
					3	3	22.83	0.192
					6	0	21.94	0.156
		16QAM	19957	1710.7	1	0	22.42	0.175
					1	2	22.16	0.164
					1	5	22.11	0.163
					3	0	22.04	0.160
					3	1	21.99	0.158
					3	3	21.93	0.156
					6	0	21.06	0.128
			20175	1732.5	1	0	22.22	0.167
					1	2	22.14	0.164
					1	5	22.11	0.163
					3	0	22.08	0.161
					3	1	21.97	0.157
					3	3	21.75	0.150
					6	0	21.07	0.128
			20393	1754.3	1	0	21.94	0.156
					1	2	21.92	0.156
					1	5	21.92	0.156
					3	0	21.81	0.152
					3	1	21.77	0.150
					3	3	21.73	0.149
					6	0	20.96	0.125

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	3 MHz	QPSK	19965	1711.5	1	0	**22.99**	**0.199**
					1	8	22.97	0.198
					1	14	22.92	0.196
					8	0	22.15	0.164
					8	4	22.14	0.164
					8	7	22.13	0.163
					15	0	22.01	0.159
			20175	1732.5	1	0	22.89	0.195
					1	8	22.86	0.193
					1	14	22.84	0.192
					8	0	22.04	0.160
					8	4	21.97	0.157
					8	7	21.93	0.156
					15	0	21.90	0.155
			20385	1753.5	1	0	22.87	0.194
					1	8	22.86	0.193
					1	14	22.84	0.192
					8	0	21.96	0.157
					8	4	21.91	0.155
					8	7	21.87	0.154
					15	0	21.84	0.153
		16QAM	19965	1711.5	1	0	22.41	0.174
					1	8	21.90	0.155
					1	14	21.73	0.149
					8	0	21.17	0.131
					8	4	21.10	0.129
					8	7	21.00	0.126
					15	0	20.94	0.124
			20175	1732.5	1	0	22.22	0.167
					1	8	22.05	0.160
					1	14	21.80	0.151
					8	0	21.00	0.126
					8	4	20.94	0.124
					8	7	20.90	0.123
					15	0	20.87	0.122
			20385	1753.5	1	0	21.96	0.157
					1	8	21.86	0.153
					1	14	21.61	0.145
					8	0	20.92	0.124
					8	4	20.88	0.122
					8	7	20.88	0.122
					15	0	20.83	0.121

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz	QPSK	19975	1712.5	1	0	**23.01**	**0.200**
					1	12	22.97	0.198
					1	24	22.95	0.197
					12	0	22.08	0.161
					12	6	22.04	0.160
					12	13	21.99	0.158
					25	0	21.98	0.158
			20175	1732.5	1	0	22.89	0.195
					1	12	22.86	0.193
					1	24	22.79	0.190
					12	0	22.03	0.160
					12	6	22.01	0.159
					12	13	22.00	0.158
					25	0	21.92	0.156
			20375	1752.5	1	0	22.88	0.194
					1	12	22.85	0.193
					1	24	22.82	0.191
					12	0	22.02	0.159
					12	6	21.96	0.157
					12	13	21.94	0.156
					25	0	21.89	0.155
		16QAM	19975	1712.5	1	0	22.30	0.170
					1	12	22.05	0.160
					1	24	21.85	0.153
					12	0	21.11	0.129
					12	6	21.09	0.129
					12	13	21.04	0.127
					25	0	20.97	0.125
			20175	1732.5	1	0	22.17	0.165
					1	12	22.06	0.161
					1	24	21.70	0.148
					12	0	21.07	0.128
					12	6	21.01	0.126
					12	13	20.99	0.126
					25	0	20.98	0.125
			20375	1752.5	1	0	21.86	0.153
					1	12	21.83	0.152
					1	24	21.57	0.144
					12	0	20.98	0.125
					12	6	20.95	0.124
					12	11	20.84	0.121
					25	0	20.77	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz	QPSK	2000	1715.0	1	0	**23.07**	**0.203**
					1	24	22.93	0.196
					1	49	22.88	0.194
					25	0	22.15	0.164
					25	12	22.06	0.161
					25	25	22.05	0.160
					50	0	22.00	0.158
			20175	1732.5	1	0	22.88	0.194
					1	24	22.86	0.193
					1	49	22.84	0.192
					25	0	21.96	0.157
					25	12	21.96	0.157
					25	25	21.93	0.156
					50	0	21.92	0.156
			20350	1750.0	1	0	22.96	0.198
					1	24	22.86	0.193
					1	49	22.84	0.192
					25	0	21.94	0.156
					25	12	21.91	0.155
					25	25	21.89	0.155
					50	0	21.87	0.154
		16QAM	2000	1715.0	1	0	22.02	0.159
					1	24	21.88	0.154
					1	49	21.71	0.148
					25	0	21.09	0.129
					25	12	21.07	0.128
					25	25	21.06	0.128
					50	0	21.03	0.127
			20175	1732.5	1	0	22.21	0.166
					1	24	22.05	0.160
					1	49	21.80	0.151
					25	0	21.03	0.127
					25	12	21.02	0.126
					25	25	20.95	0.124
					50	0	20.91	0.123
			20350	1750.0	1	0	22.27	0.169
					1	24	22.19	0.166
					1	49	21.82	0.152
					25	0	20.96	0.125
					25	12	20.84	0.121
					25	25	20.83	0.121
					50	0	20.77	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	15 MHz	QPSK	20025	1717.5	1	0	**23.11**	**0.205**
					1	38	23.03	0.201
					1	74	22.90	0.195
					38	0	22.06	0.161
					38	18	22.04	0.160
					38	37	21.99	0.158
					75	0	21.96	0.157
			20175	1732.5	1	0	23.01	0.200
					1	38	22.98	0.199
					1	74	22.86	0.193
					38	0	22.04	0.160
					38	18	22.03	0.160
					38	37	22.02	0.159
					75	0	21.95	0.157
			20325	1747.5	1	0	23.07	0.203
					1	38	23.00	0.200
					1	74	22.95	0.197
					38	0	22.03	0.160
					38	18	21.99	0.158
					38	37	21.94	0.156
					75	0	21.84	0.153
		16QAM	20025	1717.5	1	0	22.37	0.173
					1	38	22.27	0.169
					1	74	21.91	0.155
					38	0	21.08	0.128
					38	18	21.01	0.126
					38	37	21.01	0.126
					75	0	20.92	0.124
			20175	1732.5	1	0	21.91	0.155
					1	38	21.72	0.149
					1	74	21.70	0.148
					38	0	21.11	0.129
					38	18	21.06	0.128
					38	37	20.95	0.124
					75	0	20.92	0.124
			20325	1747.5	1	0	22.35	0.172
					1	38	22.17	0.165
					1	74	22.14	0.164
					38	0	21.02	0.126
					38	18	20.92	0.124
					38	37	20.90	0.123
					75	0	20.75	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz	QPSK	20050	1720.0	1	0	**23.08**	**0.203**
					1	49	22.95	0.197
					1	99	22.83	0.192
					50	0	22.08	0.161
					50	25	22.03	0.160
					50	50	22.03	0.160
					100	0	22.02	0.159
			20175	1732.5	1	0	23.02	0.200
					1	49	22.91	0.195
					1	99	22.73	0.187
					50	0	22.04	0.160
					50	25	21.92	0.156
					50	50	21.91	0.155
					100	0	21.91	0.155
			20300	1745.0	1	0	22.99	0.199
					1	49	22.90	0.195
					1	99	22.88	0.194
					50	0	21.96	0.157
					50	25	21.85	0.153
					50	50	21.83	0.152
					100	0	21.82	0.152
		16QAM	20050	1720.0	1	0	22.38	0.173
					1	49	22.31	0.170
					1	99	21.54	0.143
					50	0	21.02	0.126
					50	25	20.97	0.125
					50	50	20.95	0.124
					100	0	20.93	0.124
			20175	1732.5	1	0	22.26	0.168
					1	49	21.96	0.157
					1	99	21.62	0.145
					50	0	21.02	0.126
					50	25	20.99	0.126
					50	50	20.93	0.124
					100	0	20.84	0.121
			20300	1745.0	1	0	22.33	0.171
					1	49	22.23	0.167
					1	99	21.78	0.151
					50	0	20.88	0.122
					50	25	20.87	0.122
					50	50	20.86	0.122
					100	0	20.83	0.121

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	1.4 MHz	QPSK	20407	824.7	1	0	22.74	0.188
					1	2	22.72	0.187
					1	5	22.71	0.187
					3	0	22.70	0.186
					3	1	22.69	0.186
					3	3	22.68	0.185
					6	0	21.73	0.149
			20525	836.5	1	0	22.76	0.189
					1	2	22.72	0.187
					1	5	22.69	0.186
					3	0	22.67	0.185
					3	1	22.66	0.185
					3	3	22.60	0.182
					6	0	21.83	0.152
			20643	848.3	1	0	**22.81**	**0.191**
					1	2	22.80	0.191
					1	5	22.77	0.189
					3	0	22.76	0.189
					3	1	22.67	0.185
					3	3	22.64	0.184
					6	0	21.81	0.152
		16QAM	20407	824.7	1	0	21.77	0.150
					1	2	21.71	0.148
					1	5	21.65	0.146
					3	0	21.63	0.146
					3	1	21.55	0.143
					3	3	21.31	0.135
					6	0	20.71	0.118
			20525	836.5	1	0	21.86	0.153
					1	2	21.83	0.152
					1	5	21.80	0.151
					3	0	21.68	0.147
					3	1	21.50	0.141
					3	3	21.42	0.139
					6	0	20.64	0.116
			20643	848.3	1	0	21.94	0.156
					1	2	21.93	0.156
					1	5	21.85	0.153
					3	0	21.69	0.148
					3	1	21.63	0.146
					3	3	21.60	0.145
					6	0	20.69	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	3 MHz	QPSK	20415	825.5	1	0	22.71	0.187
					1	8	22.68	0.185
					1	14	22.64	0.184
					8	0	21.74	0.149
					8	4	21.70	0.148
					8	7	21.64	0.146
					15	0	21.62	0.145
			20525	836.5	1	0	22.71	0.187
					1	8	22.71	0.187
					1	14	22.63	0.183
					8	0	21.77	0.150
					8	4	21.76	0.150
					8	7	21.71	0.148
					15	0	21.68	0.147
			20635	847.5	1	0	**22.90**	**0.195**
					1	8	22.78	0.190
					1	14	22.71	0.187
					8	0	21.84	0.153
					8	4	21.82	0.152
					8	7	21.76	0.150
					15	0	21.71	0.148
		16QAM	20415	825.5	1	0	21.97	0.157
					1	8	21.52	0.142
					1	14	21.34	0.136
					8	0	20.71	0.118
					8	4	20.57	0.114
					8	7	20.55	0.114
					15	0	20.54	0.113
			20525	836.5	1	0	21.95	0.157
					1	8	21.70	0.148
					1	14	21.29	0.135
					8	0	20.74	0.119
					8	4	20.68	0.117
					8	7	20.59	0.115
					15	0	20.38	0.109
			20635	847.5	1	0	21.70	0.148
					1	8	21.61	0.145
					1	14	21.59	0.144
					8	0	20.80	0.120
					8	4	20.69	0.117
					8	7	20.67	0.117
					15	0	20.61	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	5 MHz	QPSK	20425	826.5	1	0	22.74	0.188
					1	12	22.74	0.188
					1	24	22.65	0.184
					12	0	21.80	0.151
					12	6	21.79	0.151
					12	13	21.69	0.148
					25	0	21.68	0.147
			20525	836.5	1	0	22.61	0.182
					1	12	22.61	0.182
					1	24	22.56	0.180
					12	0	21.78	0.151
					12	6	21.74	0.149
					12	13	21.71	0.148
					25	0	21.70	0.148
			20625	846.5	1	0	**22.77**	**0.189**
					1	12	22.63	0.183
					1	24	22.61	0.182
					12	0	21.84	0.153
					12	6	21.77	0.150
					12	13	21.70	0.148
					25	0	21.65	0.146
		16QAM	20425	826.5	1	0	21.93	0.156
					1	12	21.81	0.152
					1	24	21.59	0.144
					12	0	20.71	0.118
					12	6	20.64	0.116
					12	13	20.59	0.115
					25	0	20.58	0.114
			20525	836.5	1	0	21.90	0.155
					1	12	21.65	0.146
					1	24	21.48	0.141
					12	0	20.63	0.116
					12	6	20.61	0.115
					12	13	20.60	0.115
					25	0	20.53	0.113
			20625	846.5	1	0	21.95	0.157
					1	12	21.70	0.148
					1	24	21.58	0.144
					12	0	20.92	0.124
					12	6	20.86	0.122
					12	11	20.74	0.119
					25	0	20.61	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	10 MHz	QPSK	20450	829.0	1	0	22.77	0.189
					1	24	22.60	0.182
					1	49	22.57	0.181
					25	0	21.72	0.149
					25	12	21.70	0.148
					25	25	21.67	0.147
					50	0	21.62	0.145
			20525	836.5	1	0	22.76	0.189
					1	24	22.72	0.187
					1	49	22.59	0.182
					25	0	21.73	0.149
					25	12	21.70	0.148
					25	25	21.66	0.147
					50	0	21.61	0.145
			20600	844.0	1	0	**22.79**	**0.190**
					1	24	22.76	0.189
					1	49	22.64	0.184
					25	0	21.72	0.149
					25	12	21.71	0.148
					25	25	21.71	0.148
					50	0	21.68	0.147
		16QAM	20450	829.0	1	0	21.59	0.144
					1	24	21.54	0.143
					1	49	21.49	0.141
					25	0	20.63	0.116
					25	12	20.61	0.115
					25	25	20.58	0.114
					50	0	20.54	0.113
			20525	836.5	1	0	21.92	0.156
					1	24	21.81	0.152
					1	49	21.33	0.136
					25	0	20.64	0.116
					25	12	20.64	0.116
					25	25	20.61	0.115
					50	0	20.57	0.114
			20600	844.0	1	0	21.93	0.156
					1	24	21.80	0.151
					1	49	21.64	0.146
					25	0	20.68	0.117
					25	12	20.67	0.117
					25	25	20.64	0.116
					50	0	20.56	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	1.4 MHz	QPSK	23017	699.7	1	0	22.74	0.188
					1	2	22.72	0.187
					1	5	22.71	0.187
					3	0	22.70	0.186
					3	1	22.69	0.186
					3	3	22.68	0.185
					6	0	21.73	0.149
			23095	707.5	1	0	22.76	0.189
					1	2	22.72	0.187
					1	5	22.69	0.186
					3	0	22.67	0.185
					3	1	22.66	0.185
					3	3	22.60	0.182
					6	0	21.83	0.152
			23173	715.3	1	0	**22.81**	**0.191**
					1	2	22.80	0.191
					1	5	22.77	0.189
					3	0	22.76	0.189
					3	1	22.67	0.185
					3	3	22.64	0.184
					6	0	21.81	0.152
		16QAM	23017	699.7	1	0	21.77	0.150
					1	2	21.71	0.148
					1	5	21.65	0.146
					3	0	21.63	0.146
					3	1	21.55	0.143
					3	3	21.31	0.135
					6	0	20.71	0.118
			23095	707.5	1	0	21.86	0.153
					1	2	21.83	0.152
					1	5	21.80	0.151
					3	0	21.68	0.147
					3	1	21.50	0.141
					3	3	21.42	0.139
					6	0	20.64	0.116
			23173	715.3	1	0	21.94	0.156
					1	2	21.93	0.156
					1	5	21.85	0.153
					3	0	21.69	0.148
					3	1	21.63	0.146
					3	3	21.60	0.145
					6	0	20.69	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	3 MHz	QPSK	23025	700.5	1	0	22.71	0.187
					1	8	22.68	0.185
					1	14	22.64	0.184
					8	0	21.74	0.149
					8	4	21.70	0.148
					8	7	21.64	0.146
					15	0	21.62	0.145
			23095	707.5	1	0	22.73	0.187
					1	8	22.71	0.187
					1	14	22.63	0.183
					8	0	21.77	0.150
					8	4	21.76	0.150
					8	7	21.71	0.148
					15	0	21.68	0.147
			23165	714.5	1	0	**22.86**	**0.193**
					1	8	22.78	0.190
					1	14	22.71	0.187
					8	0	21.84	0.153
					8	4	21.82	0.152
					8	7	21.76	0.150
					15	0	21.71	0.148
		16QAM	23025	700.5	1	0	21.97	0.157
					1	8	21.52	0.142
					1	14	21.34	0.136
					8	0	20.71	0.118
					8	4	20.57	0.114
					8	7	20.55	0.114
					15	0	20.54	0.113
			23095	707.5	1	0	21.95	0.157
					1	8	21.70	0.148
					1	14	21.29	0.135
					8	0	20.74	0.119
					8	4	20.68	0.117
					8	7	20.59	0.115
					15	0	20.38	0.109
			23165	714.5	1	0	21.70	0.148
					1	8	21.61	0.145
					1	14	21.59	0.144
					8	0	20.80	0.120
					8	4	20.69	0.117
					8	7	20.67	0.117
					15	0	20.61	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	5 MHz	QPSK	23035	701.5	1	0	22.74	0.188
					1	12	22.74	0.188
					1	24	22.65	0.184
					12	0	21.80	0.151
					12	6	21.79	0.151
					12	13	21.69	0.148
					25	0	21.68	0.147
			23095	707.5	1	0	22.61	0.182
					1	12	22.61	0.182
					1	24	22.56	0.180
					12	0	21.78	0.151
					12	6	21.74	0.149
					12	13	21.71	0.148
					25	0	21.70	0.148
			23155	713.5	1	0	**22.77**	**0.189**
					1	12	22.63	0.183
					1	24	22.61	0.182
					12	0	21.84	0.153
					12	6	21.77	0.150
					12	13	21.70	0.148
					25	0	21.65	0.146
		16QAM	23035	701.5	1	0	21.93	0.156
					1	12	21.81	0.152
					1	24	21.59	0.144
					12	0	20.71	0.118
					12	6	20.64	0.116
					12	13	20.59	0.115
					25	0	20.58	0.114
			23095	707.5	1	0	21.90	0.155
					1	12	21.65	0.146
					1	24	21.48	0.141
					12	0	20.63	0.116
					12	6	20.61	0.115
					12	13	20.60	0.115
					25	0	20.53	0.113
			23155	713.5	1	0	21.95	0.157
					1	12	21.70	0.148
					1	24	21.58	0.144
					12	0	20.92	0.124
					12	6	20.86	0.122
					12	11	20.74	0.119
					25	0	20.61	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 12	10 MHz	QPSK	23060	704.0	1	0	22.77	0.189
					1	24	22.60	0.182
					1	49	22.57	0.181
					25	0	21.72	0.149
					25	12	21.70	0.148
					25	25	21.67	0.147
					50	0	21.62	0.145
			23095	707.5	1	0	22.76	0.189
					1	24	22.72	0.187
					1	49	22.59	0.182
					25	0	21.73	0.149
					25	12	21.70	0.148
					25	25	21.66	0.147
					50	0	21.61	0.145
			23130	711.0	1	0	**22.79**	**0.190**
					1	24	22.76	0.189
					1	49	22.64	0.184
					25	0	21.72	0.149
					25	12	21.71	0.148
					25	25	21.71	0.148
					50	0	21.68	0.147
		16QAM	23060	704.0	1	0	21.59	0.144
					1	24	21.54	0.143
					1	49	21.49	0.141
					25	0	20.63	0.116
					25	12	20.61	0.115
					25	25	20.58	0.114
					50	0	20.54	0.113
			23095	707.5	1	0	21.92	0.156
					1	24	21.81	0.152
					1	49	21.33	0.136
					25	0	20.64	0.116
					25	12	20.64	0.116
					25	25	20.61	0.115
					50	0	20.57	0.114
			23130	711.0	1	0	21.93	0.156
					1	24	21.80	0.151
					1	49	21.64	0.146
					25	0	20.68	0.117
					25	12	20.67	0.117
					25	25	20.64	0.116
					50	0	20.56	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 13	5 MHz	QPSK	23205	779.5	1	0	22.82	0.191
					1	12	22.43	0.175
					1	24	22.32	0.171
					12	0	21.93	0.156
					12	6	21.92	0.156
					12	13	21.59	0.144
					25	0	21.21	0.132
			23230	782.0	1	0	22.86	0.193
					1	12	22.84	0.192
					1	24	22.35	0.172
					12	0	22.06	0.161
					12	6	21.90	0.155
					12	13	21.47	0.140
					25	0	21.45	0.140
			23255	784.5	1	0	**22.88**	**0.194**
					1	12	22.78	0.190
					1	24	22.75	0.188
					12	0	22.06	0.161
					12	6	21.76	0.150
					12	13	21.48	0.141
					25	0	21.44	0.139
		16QAM	23205	779.5	1	0	21.96	0.157
					1	12	21.88	0.154
					1	24	21.16	0.131
					12	0	21.06	0.128
					12	6	20.87	0.122
					12	13	20.81	0.121
					25	0	20.61	0.115
			23230	782.0	1	0	21.94	0.156
					1	12	21.80	0.151
					1	24	21.66	0.147
					12	0	21.13	0.130
					12	6	20.95	0.124
					12	13	20.56	0.114
					25	0	20.33	0.108
			23255	784.5	1	0	22.02	0.159
					1	12	21.72	0.149
					1	24	21.64	0.146
					12	0	21.05	0.127
					12	6	21.01	0.126
					12	11	20.86	0.122
					25	0	20.49	0.112

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 13	10 MHz	QPSK	23230	782.0	1	0	**22.74**	**0.188**
					1	24	22.65	0.184
					1	49	22.59	0.182
					25	0	22.21	0.166
					25	12	22.17	0.165
					25	25	22.12	0.163
					50	0	21.72	0.149
		16QAM	23230	782.0	1	0	21.91	0.155
					1	24	21.75	0.150
					1	49	21.55	0.143
					25	0	21.46	0.140
					25	12	21.35	0.136
					25	25	21.01	0.126
					50	0	20.58	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 17	5 MHz	QPSK	23755	706.5	1	0	**22.90**	**0.195**
					1	12	22.84	0.192
					1	24	22.77	0.189
					12	0	21.86	0.153
					12	6	21.79	0.151
					12	13	21.76	0.150
					25	0	21.72	0.149
			23790	710.0	1	0	22.83	0.192
					1	12	22.82	0.191
					1	24	22.62	0.183
					12	0	21.88	0.154
					12	6	21.84	0.153
					12	13	21.83	0.152
					25	0	21.82	0.152
			23825	713.5	1	0	**22.90**	**0.195**
					1	12	22.72	0.187
					1	24	22.53	0.179
					12	0	21.85	0.153
					12	6	21.84	0.153
					12	13	21.80	0.151
					25	0	21.76	0.150
		16QAM	23755	706.5	1	0	22.08	0.161
					1	12	22.02	0.159
					1	24	21.69	0.148
					12	0	20.82	0.121
					12	6	20.78	0.120
					12	13	20.75	0.119
					25	0	20.74	0.119
			23790	710.0	1	0	21.78	0.151
					1	12	21.72	0.149
					1	24	21.44	0.139
					12	0	20.94	0.124
					12	6	20.83	0.121
					12	13	20.65	0.116
					25	0	20.61	0.115
			23825	713.5	1	0	21.97	0.157
					1	12	21.68	0.147
					1	24	21.48	0.141
					12	0	20.96	0.125
					12	6	20.96	0.125
					12	13	20.82	0.121
					25	0	20.78	0.120

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 17	10 MHz	QPSK	23780	709.0	1	0	**22.95**	**0.197**
					1	24	22.76	0.189
					1	49	22.65	0.184
					25	0	21.88	0.154
					25	12	21.83	0.152
					25	25	21.82	0.152
					50	0	21.78	0.151
			23790	710.0	1	0	22.92	0.196
					1	24	22.82	0.191
					1	49	22.64	0.184
					25	0	21.82	0.152
					25	12	21.80	0.151
					25	25	21.80	0.151
					50	0	21.76	0.150
			23800	711.0	1	0	22.76	0.189
					1	24	22.65	0.184
					1	49	22.63	0.183
					25	0	21.79	0.151
					25	12	21.77	0.150
					25	25	21.76	0.150
					50	0	21.69	0.148
		16QAM	23780	709.0	1	0	21.83	0.152
					1	24	21.70	0.148
					1	49	21.45	0.140
					25	0	20.85	0.122
					25	12	20.77	0.119
					25	25	20.72	0.118
					50	0	20.72	0.118
			23790	710.0	1	0	22.14	0.164
					1	24	21.96	0.157
					1	49	21.66	0.147
					25	0	20.82	0.121
					25	12	20.81	0.121
					25	25	20.75	0.119
					50	0	20.72	0.118
			23800	711.0	1	0	21.97	0.157
					1	24	21.64	0.146
					1	49	21.52	0.142
					25	0	20.79	0.120
					25	12	20.78	0.120
					25	25	20.73	0.118
					50	0	20.67	0.117

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 27: The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.
For FCC Part 27.50(b)(9): Control stations and mobile stations transmitting in the 746-757 MHz, and 776-788 MHz bands are limited to 30 watts ERP.
For FCC Part 27.50(c)(9): Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.
For FCC Part 27.50(c)(10): Portable stations in the 698-746 MHz band are limited to 3 watts ERP.
For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.
For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

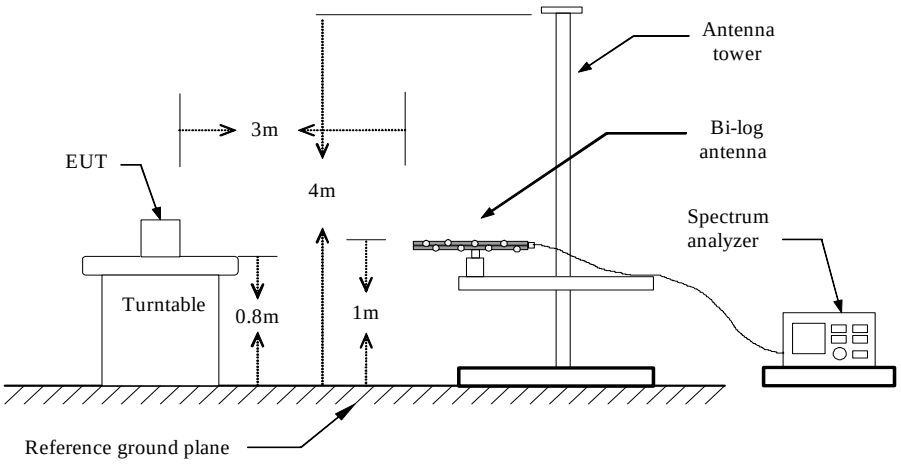
3.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/22/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/02/2014	(1)
Test Site	ATL	TE01	888001	08/28/2014	(1)

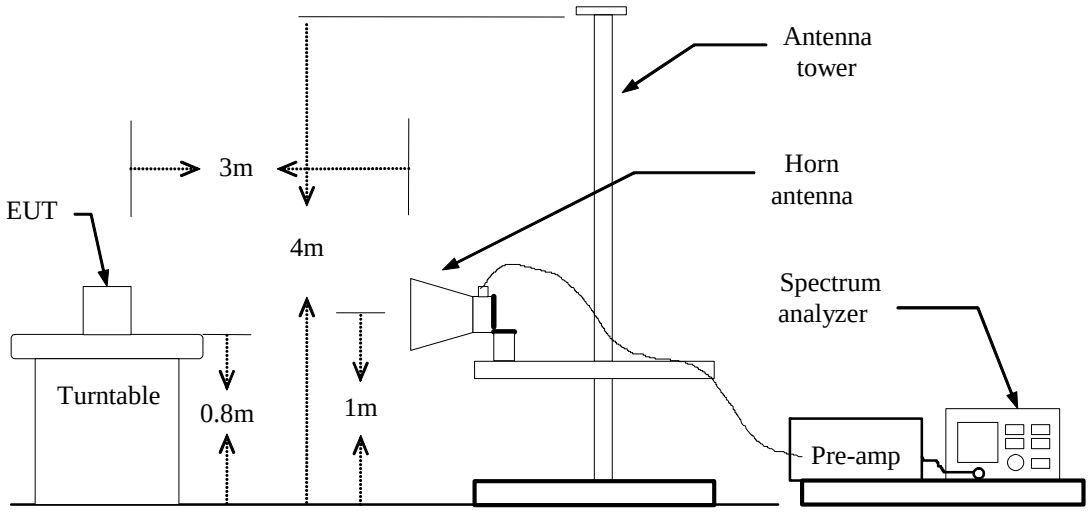
Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

3.3. Test Setup

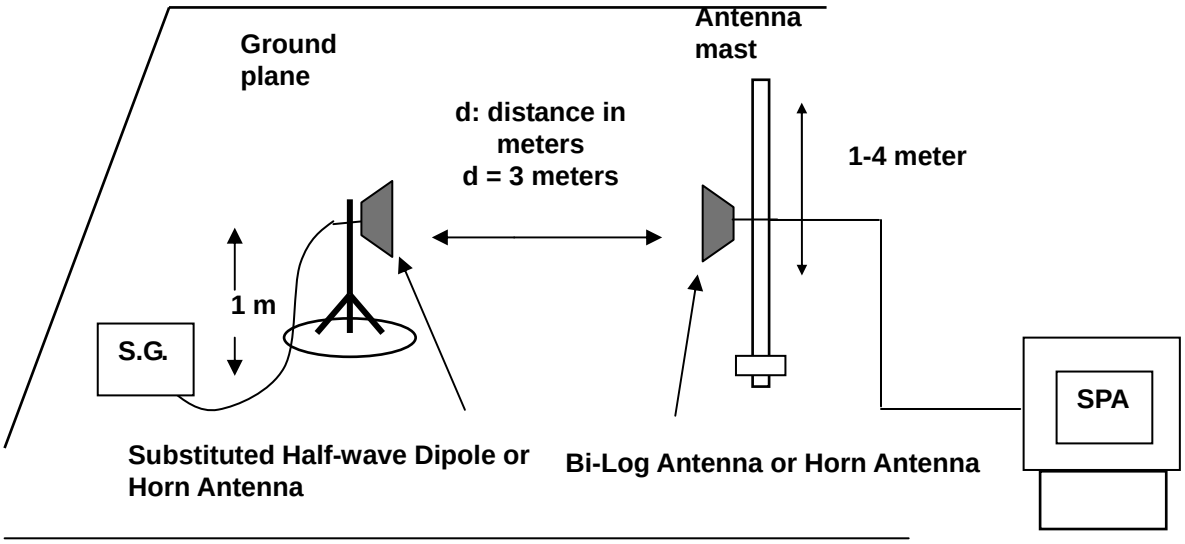
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



3.4. Test Procedure

a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 5MHz for LTE and WCDMA mode.

b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.

d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn

e. E.R.P. = E.I.R.P- 2.15 dB

3.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

3.6. Test Result

Model Number	LE910-NA V2		
Test Item	E.I.R.P. / E.R.P.		
Date of Test	08/03/2015	Test Site	TC03

LTE Band 2										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 M	QPSK	18900	1880.0	1	0	23.38	2.14	25.52	0.356	< 2
3 MHz	QPSK	18900	1880.0	1	0	23.39	2.14	25.53	0.357	< 2
5 MHz	QPSK	18900	1880.0	1	0	23.40	2.14	25.54	0.358	< 2
10 MHz	QPSK	18650	1855.0	1	0	23.30	2.14	25.44	0.350	< 2
15 MHz	QPSK	18900	1880.0	1	0	23.43	2.14	25.57	0.361	< 2
20 MHz	QPSK	18900	1880.0	1	0	23.41	2.14	25.55	0.359	< 2

LTE Band 4										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.I.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 M	QPSK	19957	1710.7	1	0	23.12	2.14	25.26	0.336	< 1
3 MHz	QPSK	19965	1711.5	1	0	22.99	2.14	25.13	0.326	< 1
5 MHz	QPSK	19975	1712.5	1	0	23.01	2.14	25.15	0.327	< 1
10 MHz	QPSK	20000	1715.0	1	0	23.07	2.14	25.21	0.332	< 1
15 MHz	QPSK	20025	1717.5	1	0	23.11	2.14	25.25	0.335	< 1
20 MHz	QPSK	20050	1720.0	1	0	23.08	2.14	25.22	0.333	< 1

LTE Band 5										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 M	QPSK	20643	848.3	1	0	22.81	2.14	22.80	0.191	< 7
3 MHz	QPSK	20635	847.5	1	0	22.90	2.14	22.89	0.195	< 7
5 MHz	QPSK	20625	846.5	1	0	22.77	2.14	22.76	0.189	< 7
10 MHz	QPSK	20600	844.0	1	0	22.79	2.14	22.78	0.190	< 7

LTE Band 12										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
1.4 MHz	QPSK	23173	715.3	1	0	22.81	2.14	24.95	0.313	< 30
3 MHz	QPSK	23165	714.5	1	0	22.86	2.14	25.00	0.316	< 30
5 MHz	QPSK	23155	713.5	1	0	22.77	2.14	24.91	0.310	< 30
10 MHz	QPSK	23130	711.0	1	0	22.79	2.14	24.93	0.311	< 30

LTE Band 13										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
5 MHz	QPSK	23255	784.5	1	0	22.88	2.14	25.02	0.318	< 30
10 MHz	QPSK	23230	782.0	1	0	22.74	2.14	24.88	0.308	< 30

LTE Band 17										
Channel Bandwidth	Modulation	CH	Frequency (MHz)	RB Configuration		Average Power (dBm)	Antenna Gain (dBi)	E.R.P.		Limit (W)
				Size	Offset			(dBm)	(W)	
5 MHz	QPSK	23755	706.5	1	0	22.90	2.14	22.89	0.195	< 3
		23825	713.5	1	0	22.90	2.14	22.89	0.195	< 3
10 MHz	QPSK	23780	709.0	1	0	22.95	2.14	22.94	0.197	< 3

4 Frequency Stability Test

4.1. Limit

According to the FCC rule shall be tested the frequency stability. The rule is defined that" The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1) -30℃ ~ 50℃.

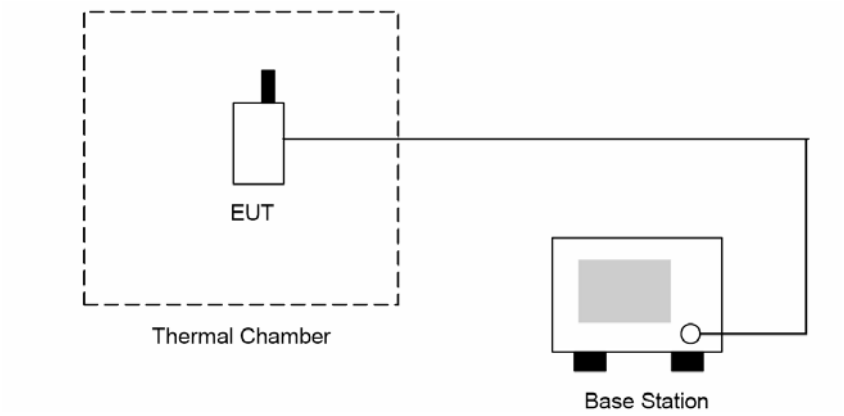
4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/27/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at 25±5 ℃ and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

4.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability measurement is ± 10Hz.

4.6. Test Result

Model Number	LE910-NA V2		
Test Item	Frequency Stability		
Date of Test	06/18/2015	Test Site	TE05

LTE Band 2 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	4.20	20	1.76	0.001	± 2.5
		3.80	20	3.35	0.002	± 2.5
		3.40	20	-3.87	-0.002	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	3.80	-10	2.11	0.001	± 2.5
		3.80	0	3.04	0.002	± 2.5
		3.80	10	-3.85	-0.002	± 2.5
		3.80	20	-0.56	0.000	± 2.5
		3.80	30	-4.11	-0.002	± 2.5
		3.80	40	1.28	0.001	± 2.5
		3.80	50	6.90	0.004	± 2.5
		3.80	55	-14.24	-0.008	± 2.5

LTE Band 4 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	4.20	20	2.28	0.001	± 2.5
		3.80	20	0.56	0.000	± 2.5
		3.40	20	-6.58	-0.004	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	3.80	-10	0.78	0.000	± 2.5
		3.80	0	2.75	0.002	± 2.5
		3.80	10	-3.35	-0.002	± 2.5
		3.80	20	2.57	0.001	± 2.5
		3.80	30	-2.75	-0.002	± 2.5
		3.80	40	-0.98	-0.001	± 2.5
		3.80	50	6.29	0.004	± 2.5
		3.80	55	-11.71	-0.007	± 2.5

Note: The device temperature only support -10°C to +55°C.

LTE Band 5 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	836.5	4.20	20	1.11	0.001	± 2.5
		3.80	20	0.73	0.001	± 2.5
		3.40	20	-3.74	-0.004	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	836.5	3.80	-10	1.84	0.002	± 2.5
		3.80	0	1.49	0.002	± 2.5
		3.80	10	-4.86	-0.006	± 2.5
		3.80	20	-0.28	0.000	± 2.5
		3.80	30	-5.47	-0.007	± 2.5
		3.80	40	1.35	0.002	± 2.5
		3.80	50	4.49	0.005	± 2.5
		3.80	55	-13.63	-0.016	± 2.5

LTE Band 12 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	705.5	4.20	20	2.34	0.003	± 2.5
		3.80	20	2.37	0.003	± 2.5
		3.40	20	-6.77	-0.010	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	707.5	3.80	-10	3.41	0.005	± 2.5
		3.80	0	3.39	0.005	± 2.5
		3.80	10	-5.57	-0.008	± 2.5
		3.80	20	0.88	0.001	± 2.5
		3.80	30	-1.58	-0.002	± 2.5
		3.80	40	1.35	0.002	± 2.5
		3.80	50	3.93	0.006	± 2.5
		3.80	55	-12.54	-0.018	± 2.5

Note: The device temperature only support -10°C to +55°C.

LTE Band 13 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	782.0	4.20	20	1.88	0.002	± 2.5
		3.80	20	1.79	0.002	± 2.5
		3.40	20	-7.01	-0.009	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	782.0	3.80	-10	4.05	0.005	± 2.5
		3.80	0	3.80	0.005	± 2.5
		3.80	10	-3.85	-0.005	± 2.5
		3.80	20	1.17	0.001	± 2.5
		3.80	30	-3.84	-0.005	± 2.5
		3.80	40	-0.65	-0.001	± 2.5
		3.80	50	4.50	0.006	± 2.5
		3.80	55	-11.65	-0.015	± 2.5

LTE Band 17 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	710.0	4.20	20	4.27	0.006	± 2.5
		3.80	20	3.20	0.005	± 2.5
		3.40	20	-3.24	-0.005	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	710.0	3.80	-10	1.11	0.002	± 2.5
		3.80	0	1.05	0.001	± 2.5
		3.80	10	-4.62	-0.007	± 2.5
		3.80	20	1.40	0.002	± 2.5
		3.80	30	-4.92	-0.007	± 2.5
		3.80	40	-1.28	-0.002	± 2.5
		3.80	50	7.54	0.011	± 2.5
		3.80	55	-12.05	-0.017	± 2.5

Note: The device temperature only support -10°C to +55°C.

5 Emission Bandwidth & Occupied Bandwidth Test

5.1. Limit

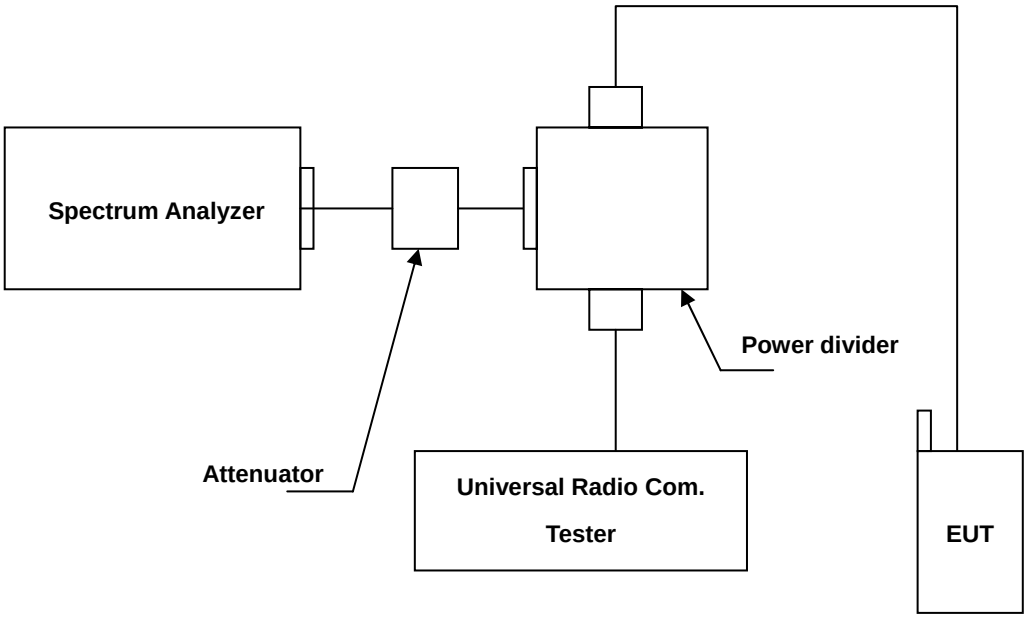
The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.
The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

5.3. Setup



5.4. Test Procedure

The measurement is made according to FCC rules:

a. The EUT makes a phone call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)

b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

c. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

5.5. Uncertainty

The measurement uncertainty is defined as ± 10Hz

5.6. Test Result

Model Number	LE910-NA V2		
Test Item	Emission Bandwidth & Occupied Bandwidth		
Date of Test	06/11/2015	Test Site	TE05

LTE Band 2				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1850.7	1.248	1.0854
		1880.0	1.248	1.0761
		1909.3	1.247	1.0837
	3 MHz	1851.5	2.965	2.6905
		1880.0	2.937	2.6827
		1908.5	2.971	2.6849
	5 MHz	1852.5	4.991	4.4720
		1880.0	4.849	4.4571
		1907.5	4.949	4.4698
	10 MHz	1855.0	9.863	8.9686
		1880.0	9.815	8.9667
		1905.0	9.778	8.9397
	15 MHz	1857.5	15.371	13.4528
		1880.0	14.617	13.4608
		1902.5	14.589	13.3895
	20 MHz	1860.0	19.361	17.8655
		1880.0	19.324	17.9052
		1900.0	19.538	17.8316
16QAM	1.4 MHz	1850.7	1.248	1.0847
		1880.0	1.248	1.0762
		1909.3	1.245	1.0826
	3 MHz	1851.5	2.973	2.6924
		1880.0	2.938	2.6821
		1908.5	2.932	2.6833
	5 MHz	1852.5	4.950	4.4686
		1880.0	4.871	4.4643
		1907.5	4.975	4.4683
	10 MHz	1855.0	9.821	8.9631
		1880.0	9.831	8.9604
		1905.0	9.742	8.9522
	15 MHz	1857.5	15.265	13.4425
		1880.0	14.837	13.4464
		1902.5	14.730	13.4010
	20 MHz	1860.0	19.203	17.8778
		1880.0	19.383	17.9027
		1900.0	19.538	17.7768

LTE Band 4				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1710.7	1.302	1.0800
		1732.5	1.230	1.0834
		1754.3	1.295	1.0806
	3 MHz	1711.5	2.979	2.6882
		1732.5	2.973	2.6841
		1753.5	2.938	2.6788
	5 MHz	1712.5	4.878	4.4739
		1732.5	4.909	4.4611
		1752.5	4.898	4.4506
	10 MHz	1715.0	9.959	8.9670
		1732.5	9.854	8.9554
		1750.0	9.835	8.9723
	15 MHz	1717.5	15.297	13.4593
		1732.5	14.665	13.4221
		1747.5	15.039	13.4448
	20 MHz	1720.0	19.573	17.8902
		1732.5	19.484	17.8358
		1745.0	19.752	17.9703
16QAM	1.4 MHz	1710.7	1.307	1.0808
		1732.5	1.246	1.0832
		1754.3	1.277	1.0808
	3 MHz	1711.5	2.983	2.6873
		1732.5	2.981	2.6940
		1753.5	2.929	2.6803
	5 MHz	1712.5	4.861	4.4657
		1732.5	4.941	4.4657
		1752.5	4.866	4.4478
	10 MHz	1715.0	9.936	8.9679
		1732.5	9.923	8.9525
		1750.0	9.804	8.9652
	15 MHz	1717.5	14.921	13.4265
		1732.5	14.876	13.4029
		1747.5	15.039	13.4260
	20 MHz	1720.0	19.565	17.8961
		1732.5	19.504	17.8465
		1745.0	19.659	17.9862

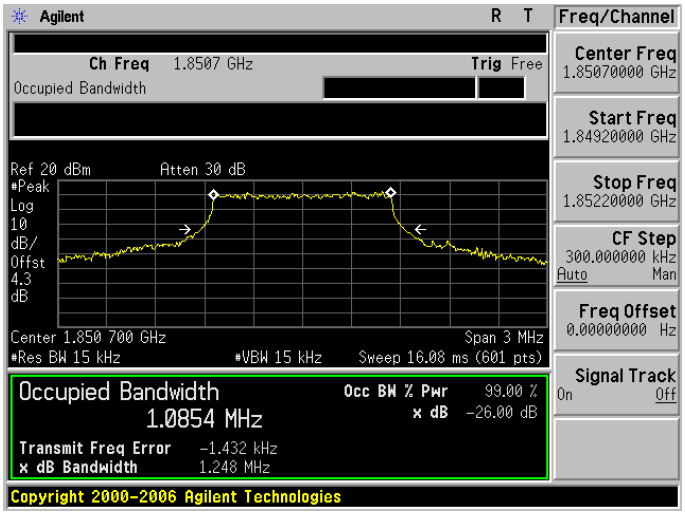
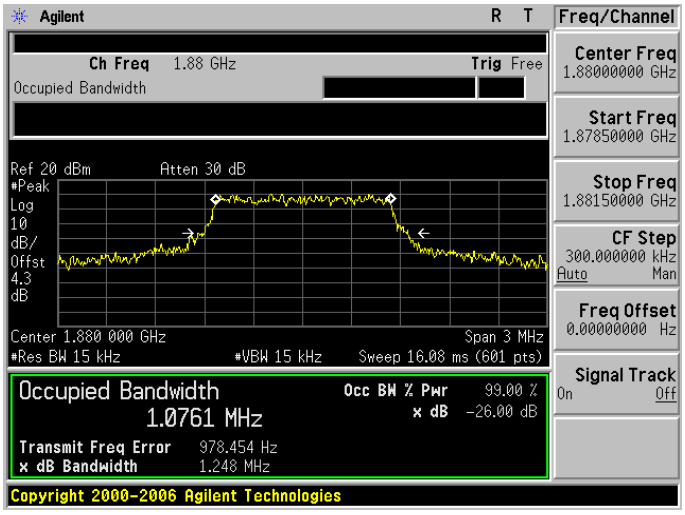
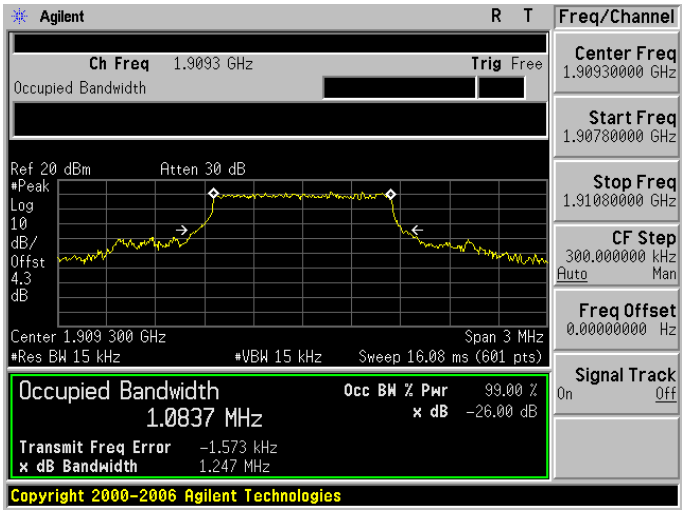
LTE Band 5				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	824.7	1.283	1.0815
		836.5	1.222	1.0820
		848.3	1.246	1.0858
	3 MHz	825.5	2.965	2.6901
		836.5	2.953	2.6876
		847.5	2.948	2.6904
	5 MHz	826.5	4.923	4.4747
		836.5	4.891	4.4618
		846.5	4.848	4.4555
	10 MHz	829.0	9.888	8.9697
		836.5	9.813	8.9613
		844.0	9.787	8.9640
16QAM	1.4 MHz	824.7	1.282	1.0814
		836.5	1.232	1.0817
		848.3	1.239	1.0857
	3 MHz	825.5	2.954	2.6906
		836.5	2.966	2.6914
		847.5	2.928	2.6924
	5 MHz	826.5	4.903	4.4558
		836.5	4.915	4.4661
		846.5	4.802	4.4482
	10 MHz	829.0	9.841	8.9701
		836.5	9.768	8.9534
		844.0	9.792	8.9318

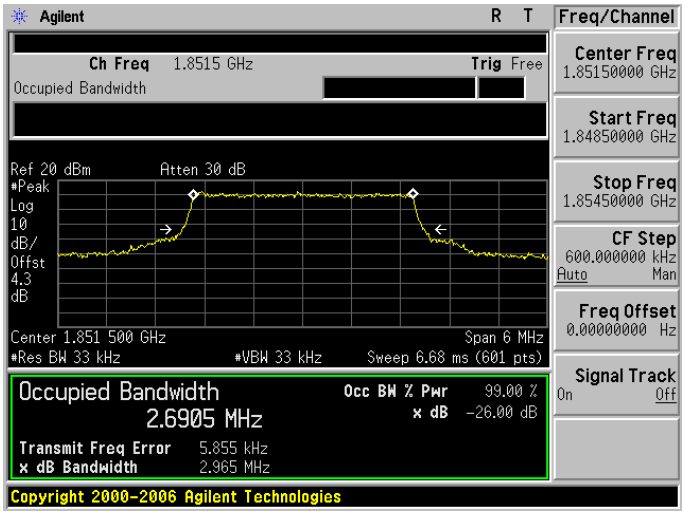
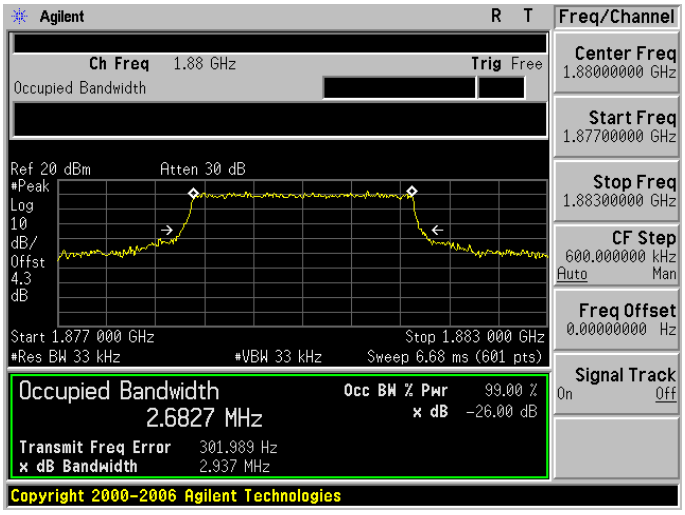
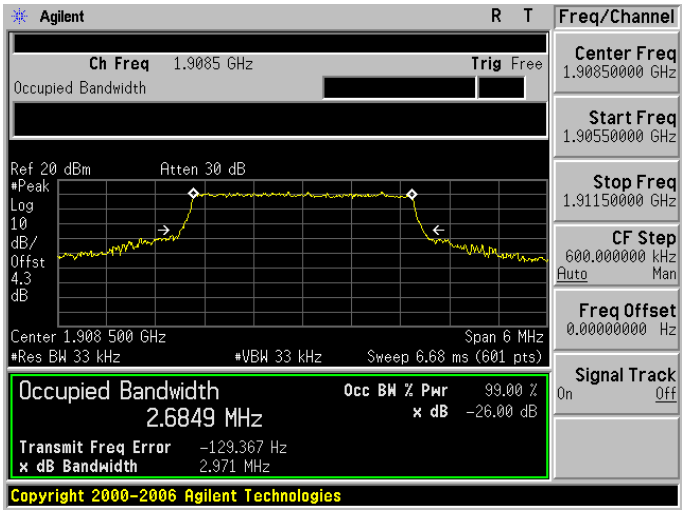
LTE Band 12				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	699.7	1.246	1.0891
		707.5	1.294	1.0796
		715.3	1.232	1.0823
	3 MHz	700.5	2.958	2.6928
		707.5	2.963	2.6947
		714.5	2.933	2.6874
	5 MHz	701.5	4.916	4.4600
		707.5	4.907	4.4589
		713.5	4.871	4.4548
	10 MHz	704.0	10.108	8.9831
		707.5	9.675	8.9567
		711.0	9.893	8.9505
16QAM	1.4 MHz	699.7	1.242	1.0870
		707.5	1.296	1.0814
		715.3	1.232	1.0817
	3 MHz	700.5	2.954	2.6919
		707.5	2.965	2.6946
		714.5	2.917	2.6868
	5 MHz	701.5	4.910	4.4605
		707.5	4.966	4.4658
		713.5	4.818	4.4490
	10 MHz	704.0	10.103	8.9834
		707.5	9.911	8.9548
		711.0	9.702	8.9481

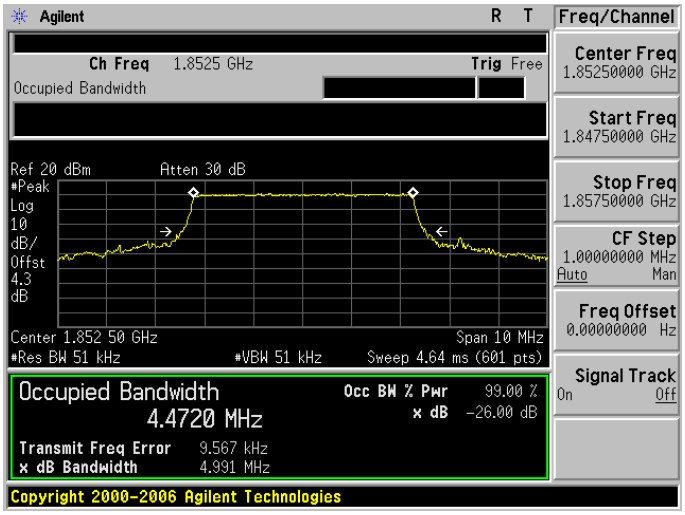
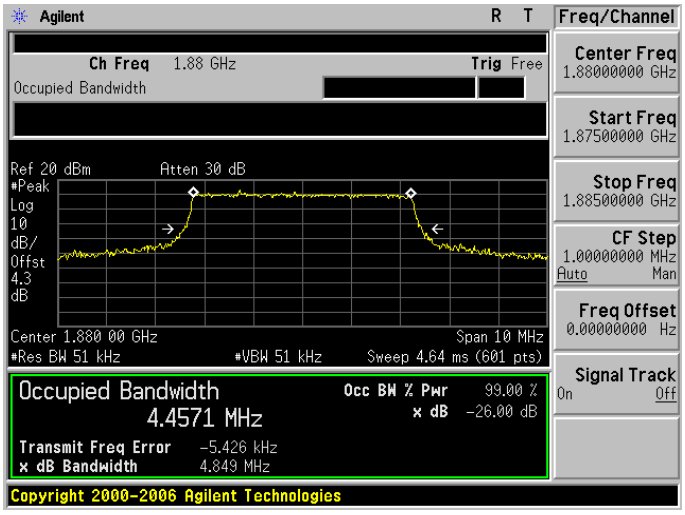
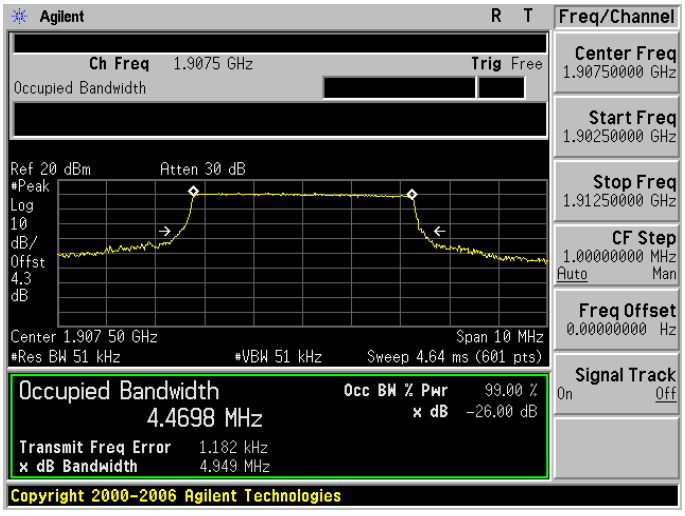
LTE Band 13				
Modulation	Channel Bandwidth	Frequency (MHz)	-26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	5 MHz	779.5	4.840	4.4606
		782.0	4.947	4.4669
		784.5	4.884	4.4500
16QAM		779.5	4.829	4.4560
		782.0	4.964	4.4717
		784.5	4.903	4.4482
QPSK	10 MHz	782.0	9.812	8.9809
16QAM		782.0	9.812	8.9625

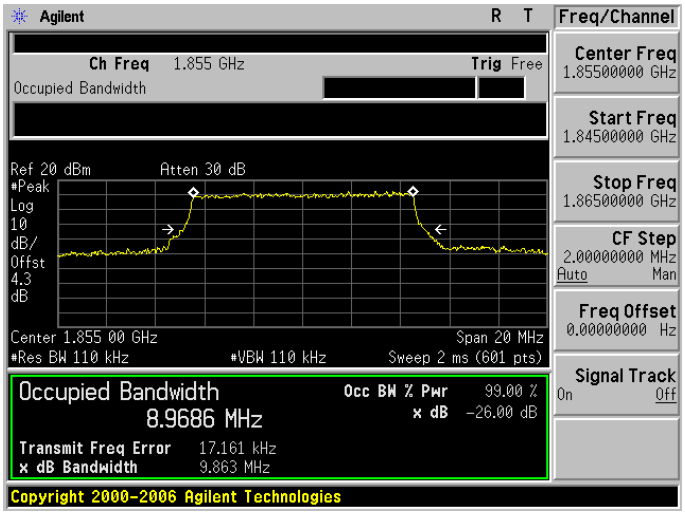
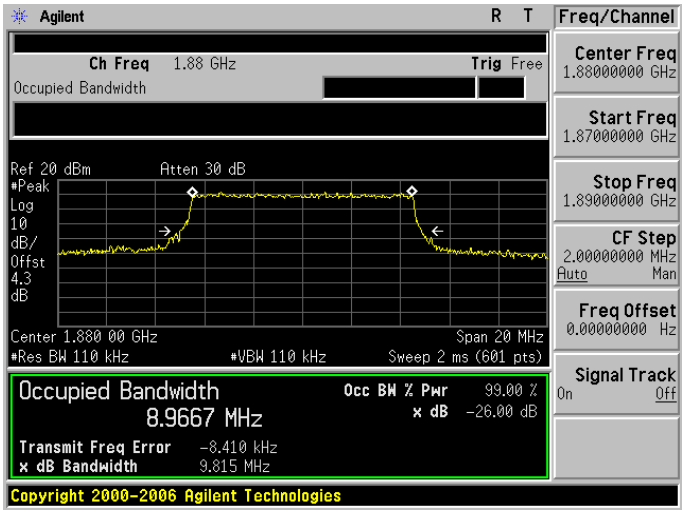
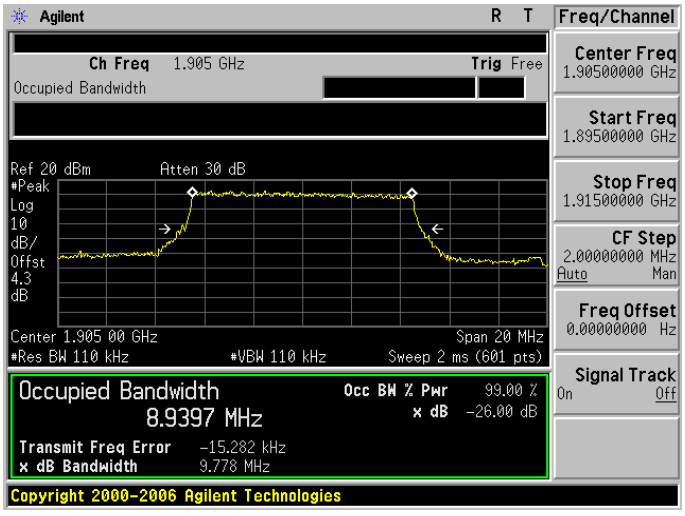
LTE Band 17				
Channel Bandwidth	Modulation	Frequency (MHz)	-26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	5 MHz	706.5	4.990	4.4758
		710.0	4.888	4.4559
		713.5	4.920	4.4752
	10 MHz	706.5	9.775	8.9568
		710.0	9.719	8.9352
		713.5	9.896	8.9558
16QAM	5 MHz	709.0	4.969	4.4770
		710.0	4.888	4.4634
		711.0	4.912	4.4647
	10 MHz	709.0	9.754	8.9507
		710.0	9.864	8.9502
		711.0	9.795	8.9435

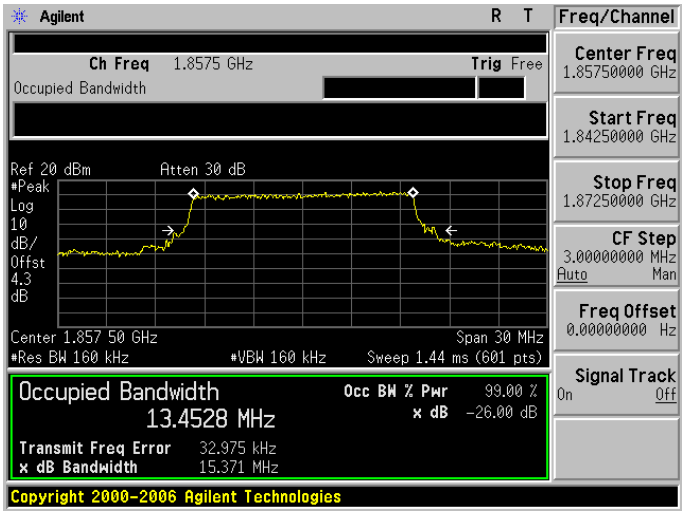
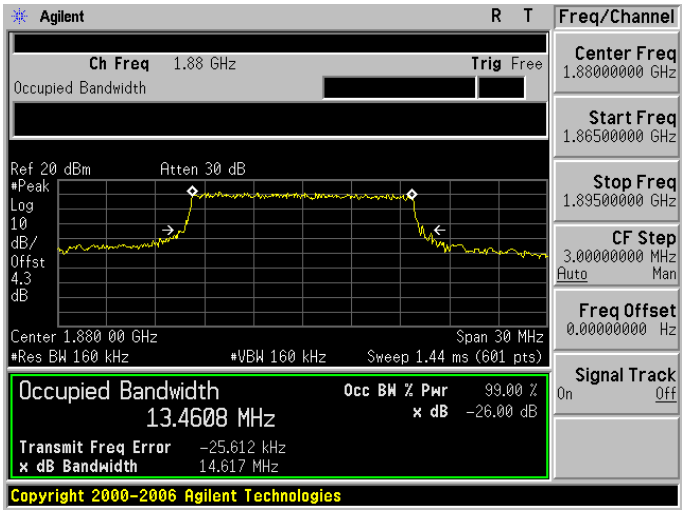
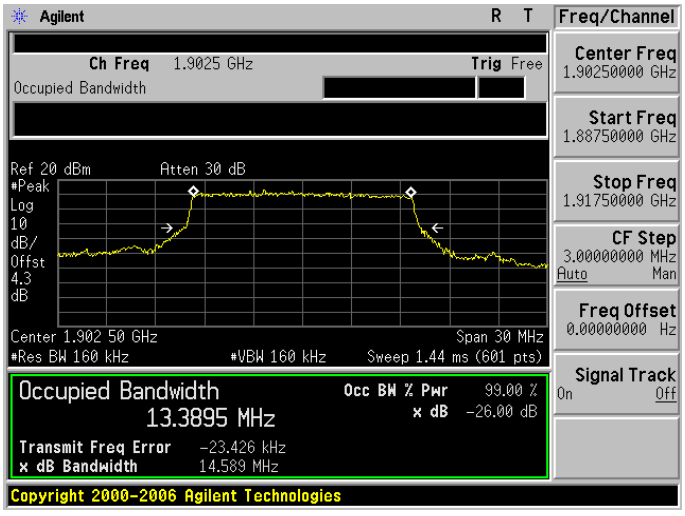
5.7. Test Graphs

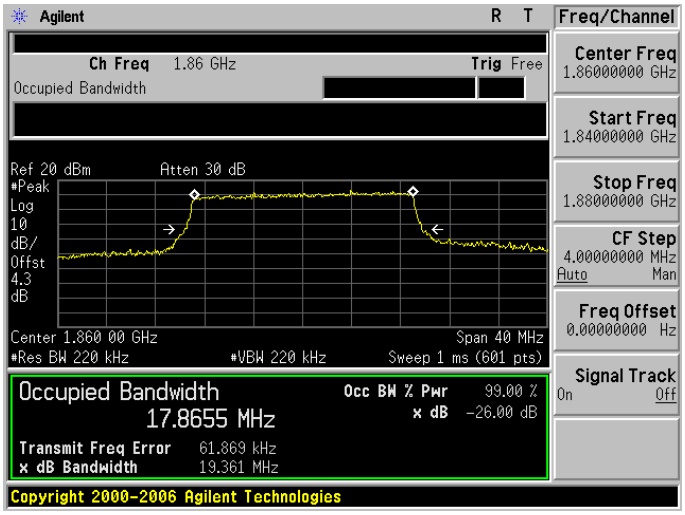
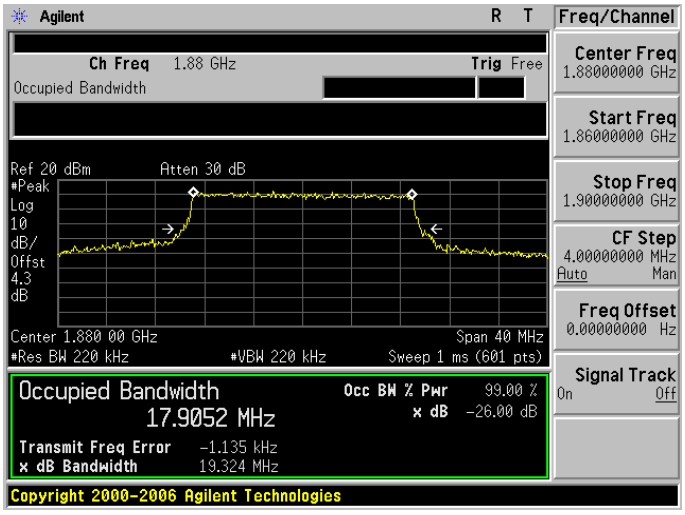
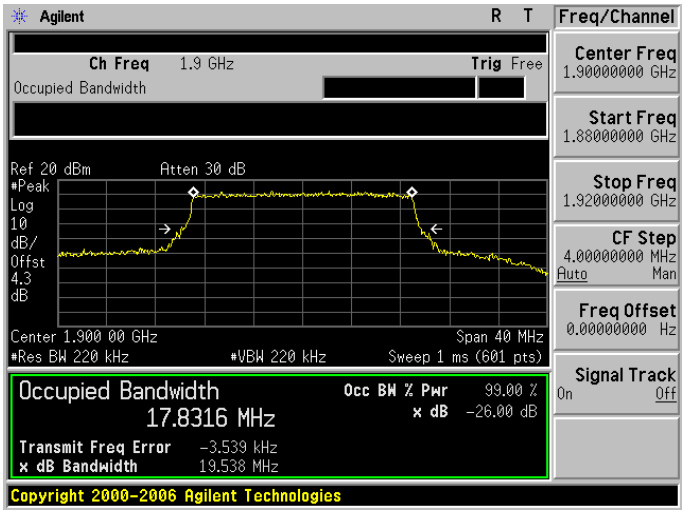
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1850.7 MHz	
1880.0 MHz	
1909.3 MHz	

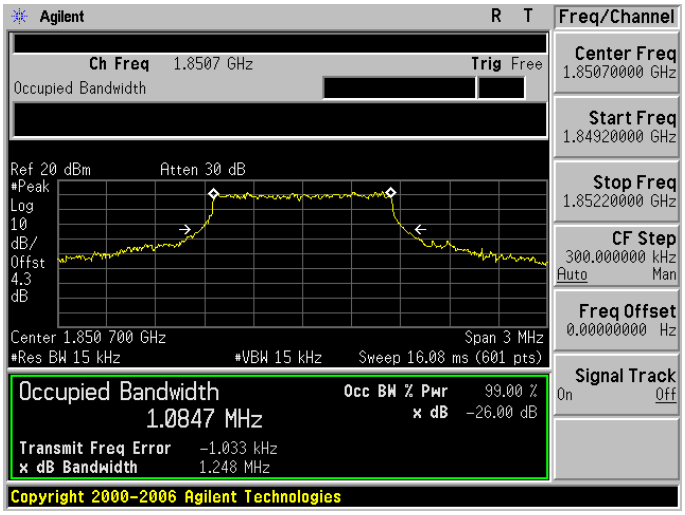
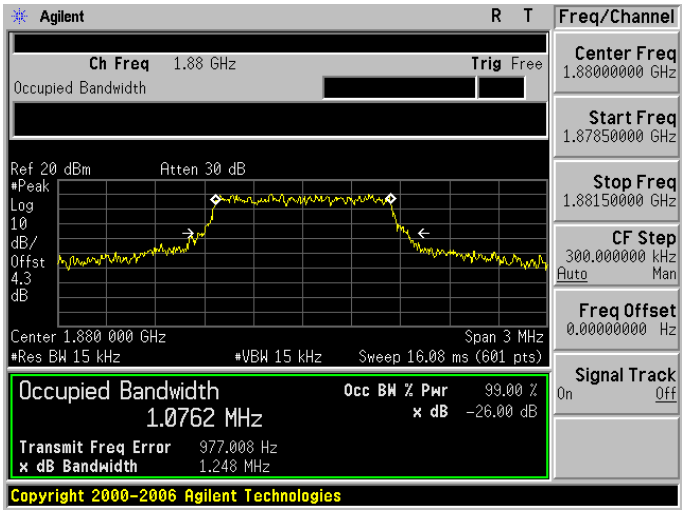
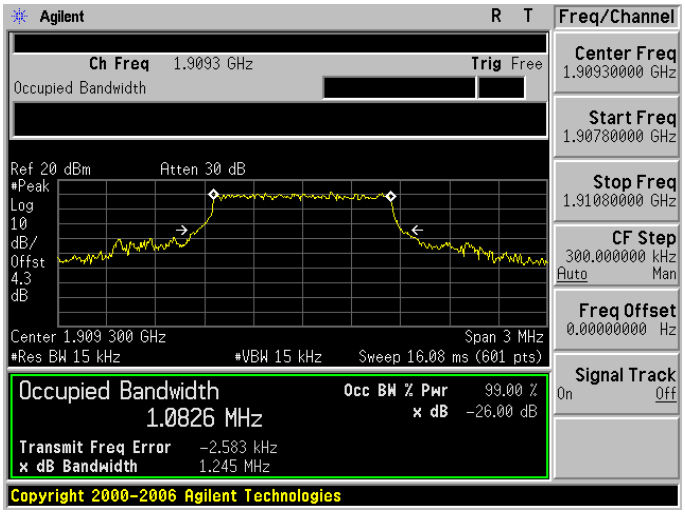
LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK	
1851.5 MHz	
1880.0 MHz	
1908.5 MHz	

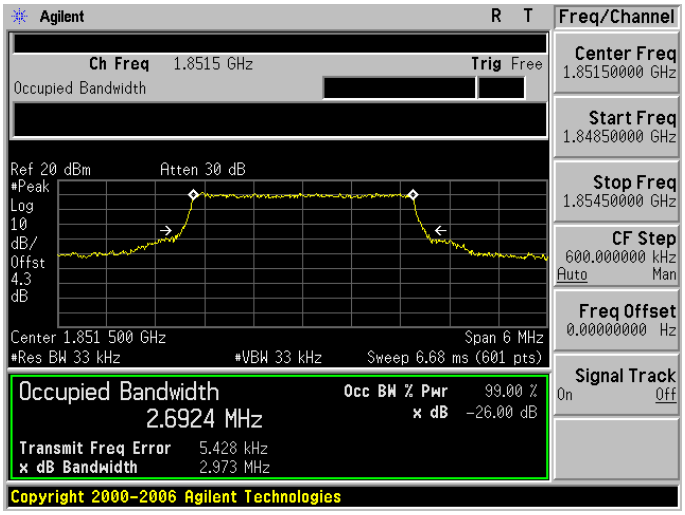
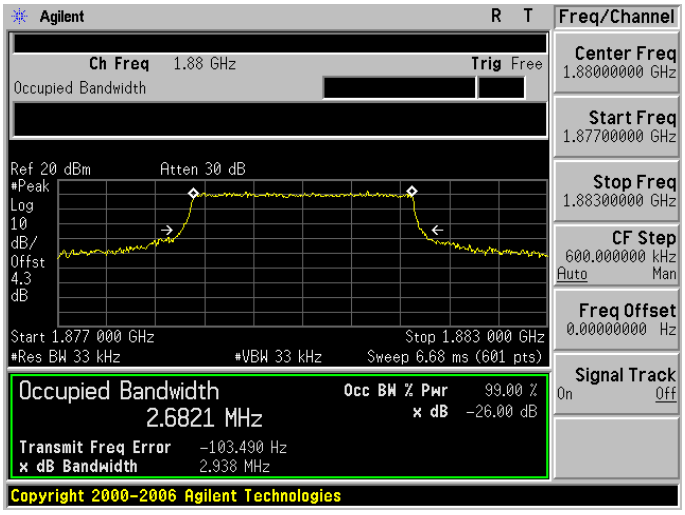
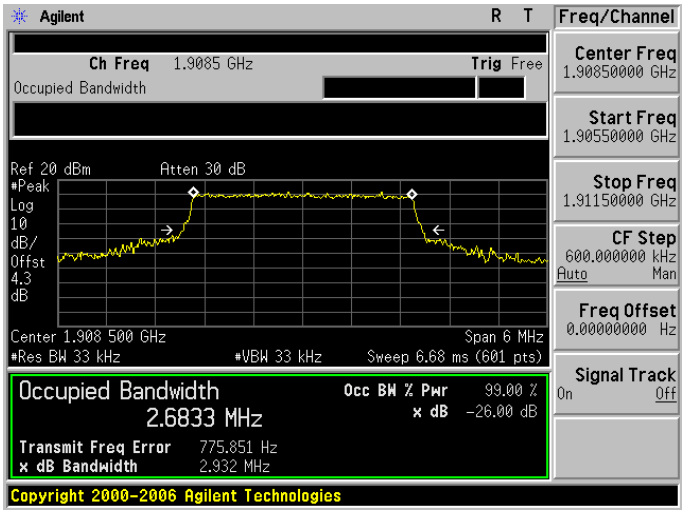
LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK	
1852.5 MHz	
1880.0 MHz	
1907.5 MHz	

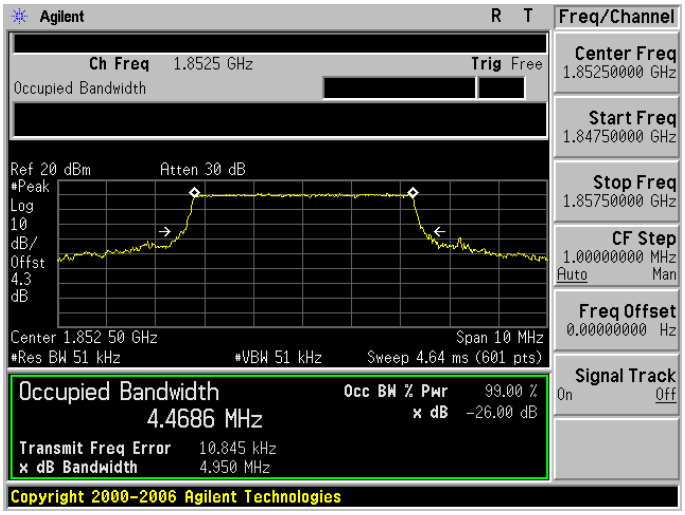
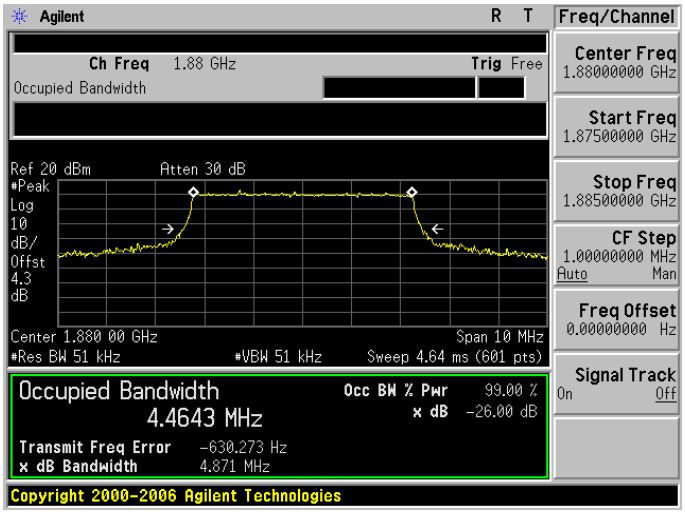
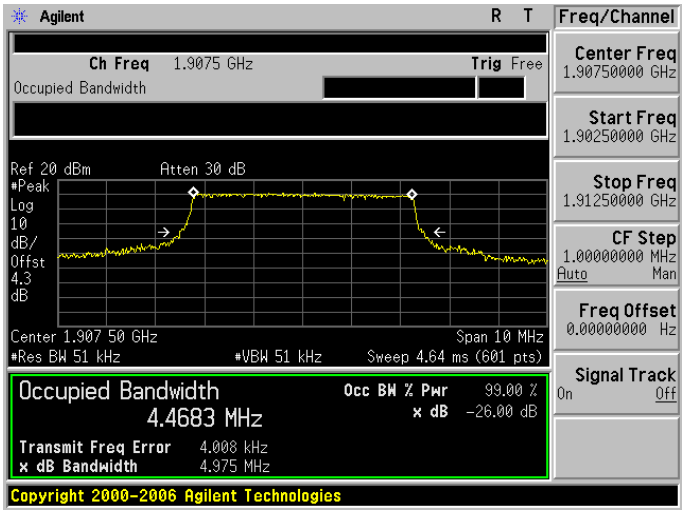
LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK	
1855.0 MHz	
1880.0 MHz	
1905.0 MHz	

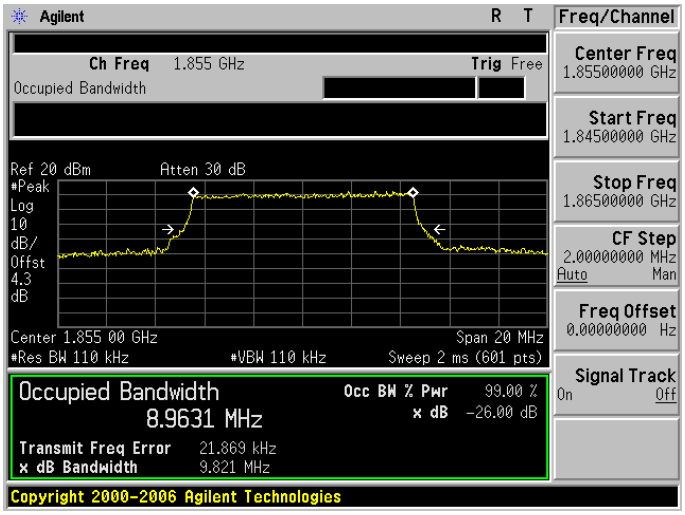
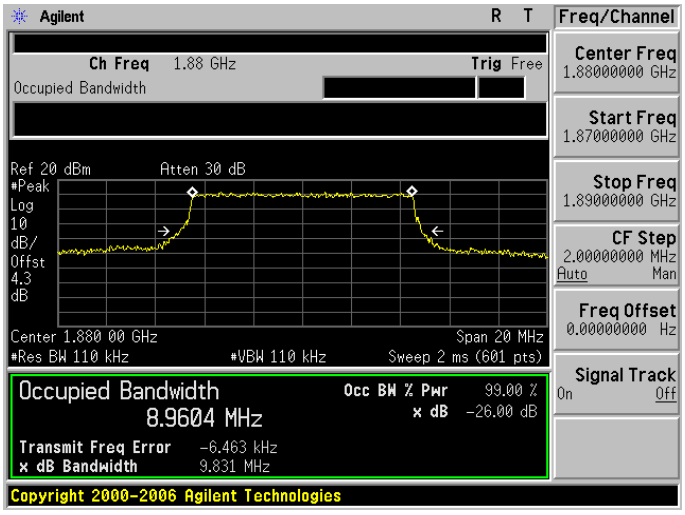
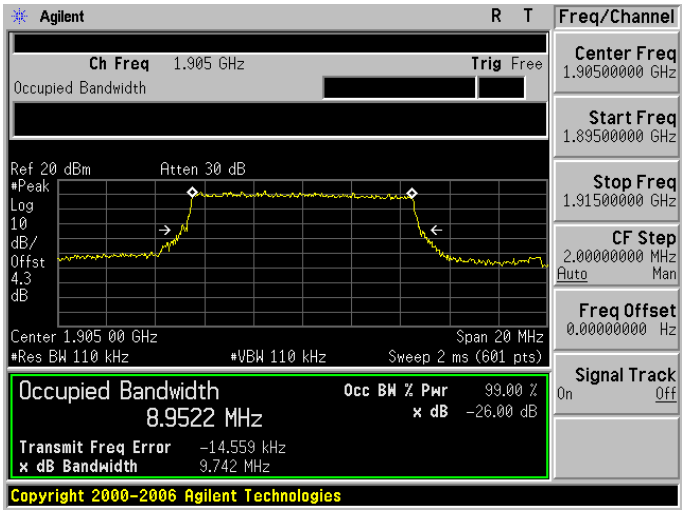
LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK	
1857.5 MHz	
1880.0 MHz	
1902.5 MHz	

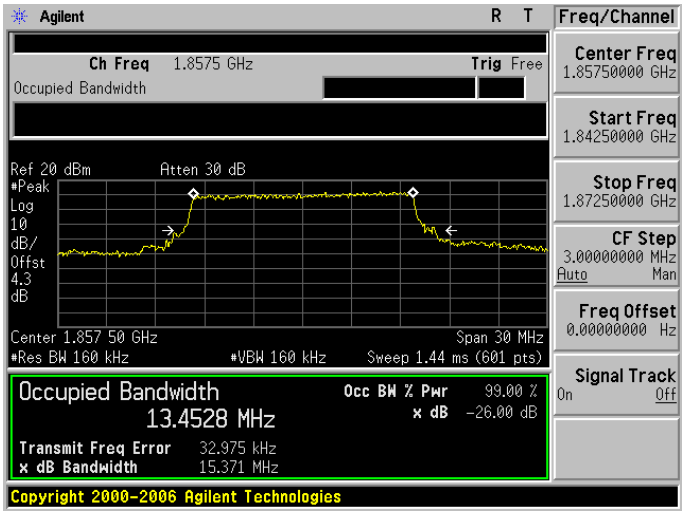
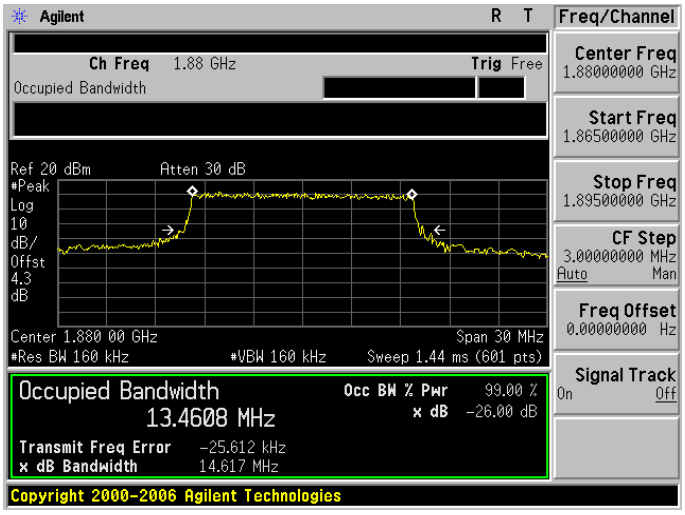
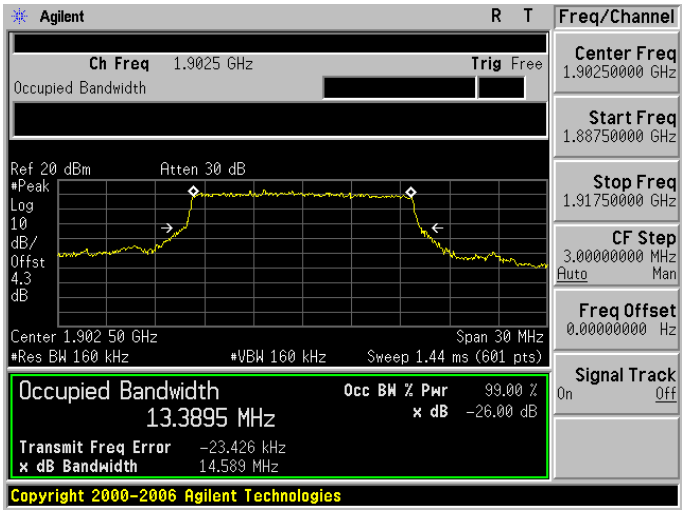
LTE Band 2 (Channel Bandwidth: 20 MHz) _ QPSK	
1860.0 MHz	
1880.0 MHz	
1900.0 MHz	

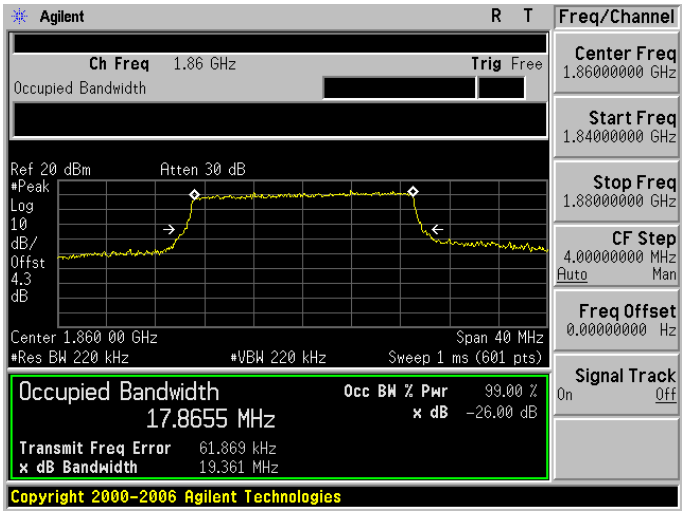
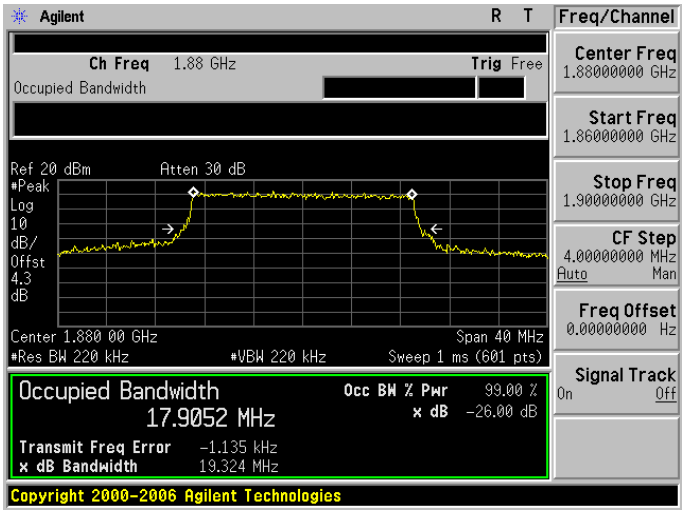
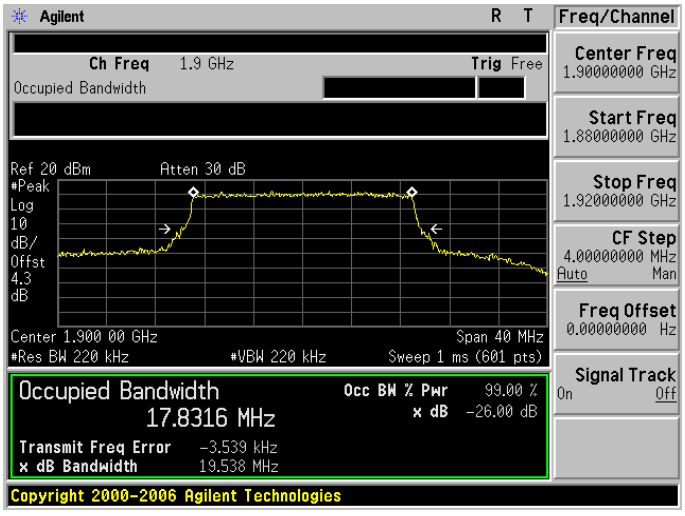
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1850.7 MHz	
1880.0 MHz	
1909.3 MHz	

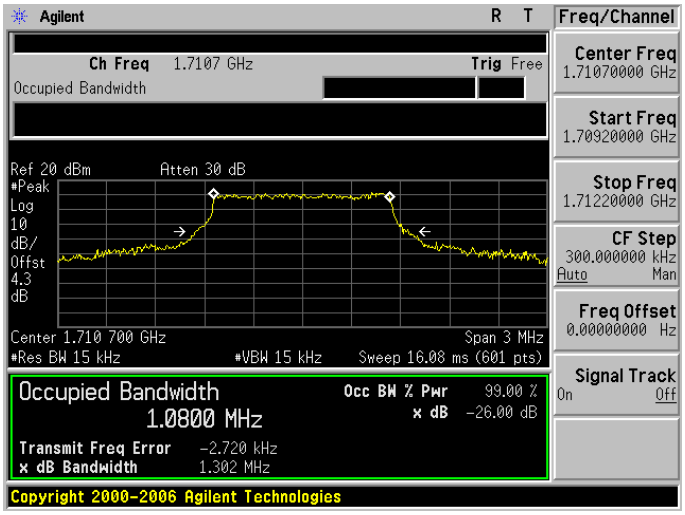
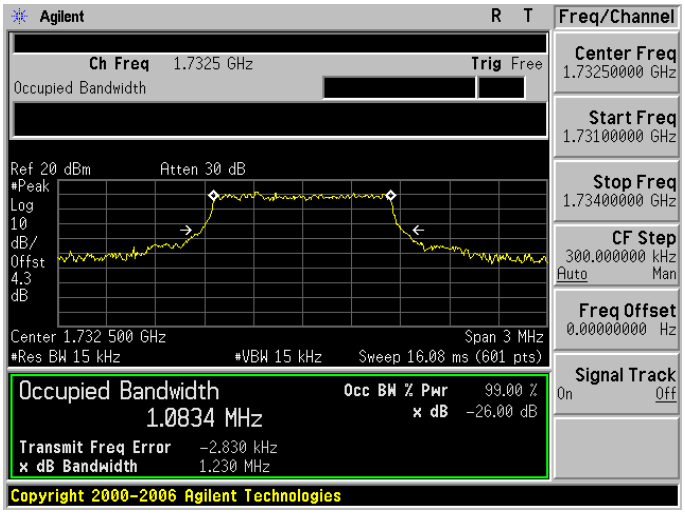
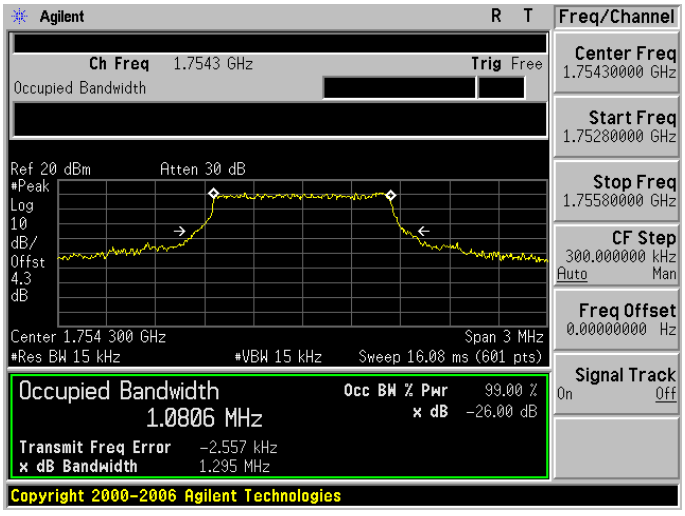
LTE Band 2 (Channel Bandwidth: 3 MHz) _ 16QAM	
1851.5 MHz	
1880.0 MHz	
1908.5 MHz	

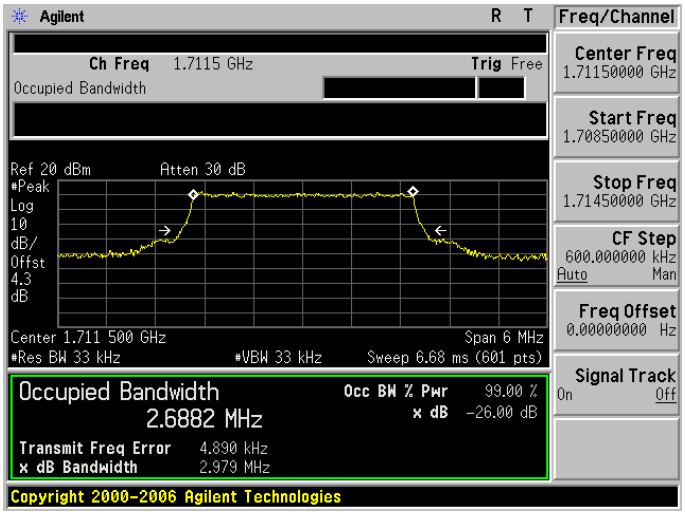
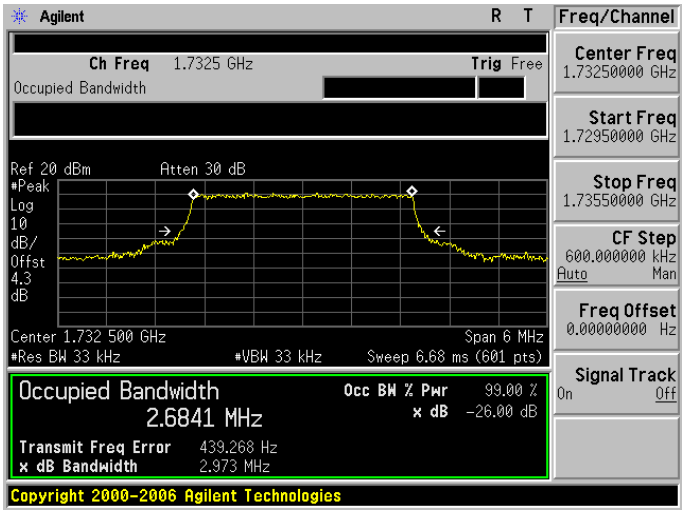
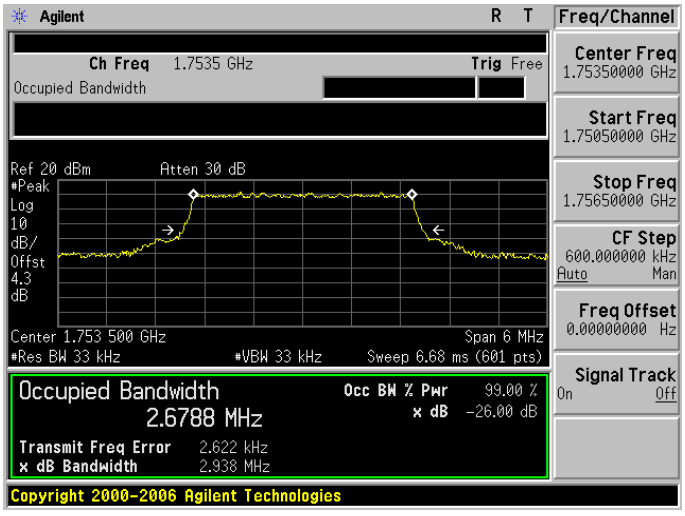
LTE Band 2 (Channel Bandwidth: 5 MHz) _ 16QAM	
1852.5 MHz	
1880.0 MHz	
1907.5 MHz	

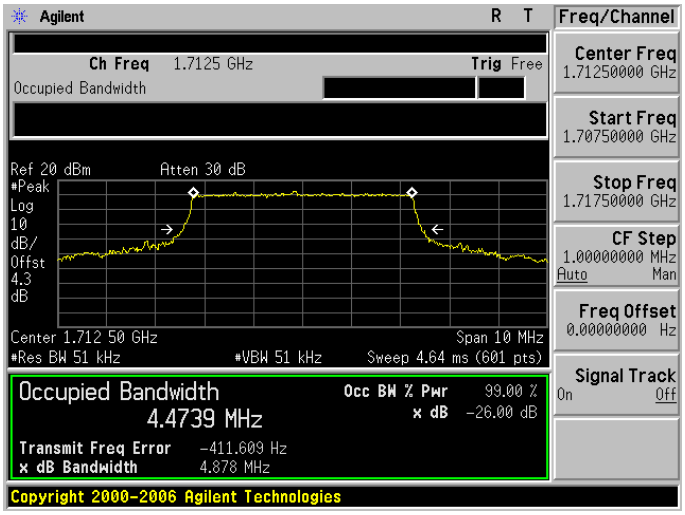
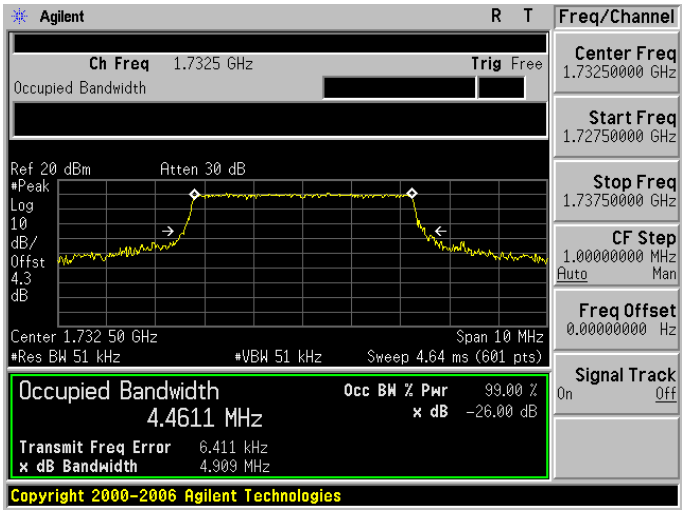
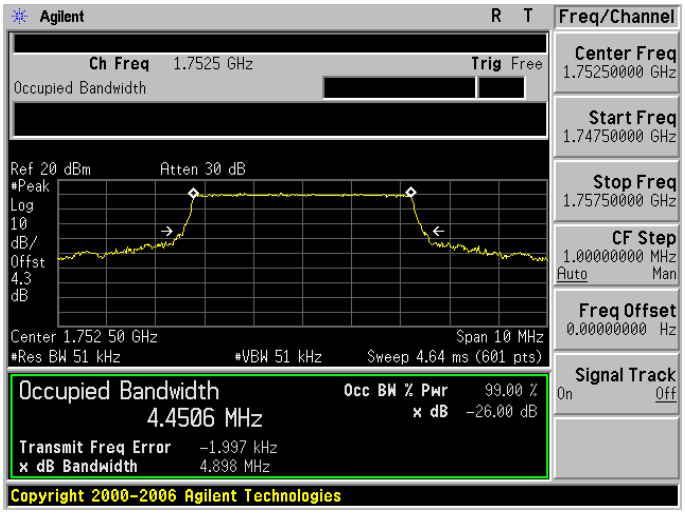
LTE Band 2 (Channel Bandwidth: 10 MHz) _ 16QAM	
1855.0 MHz	
1880.0 MHz	
1905.0 MHz	

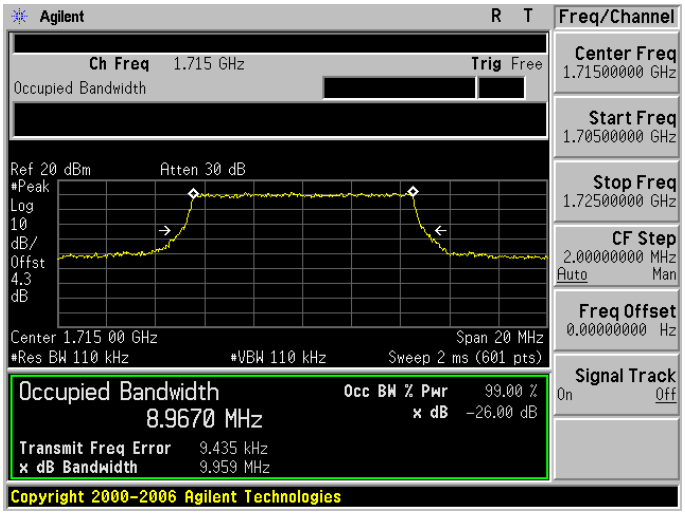
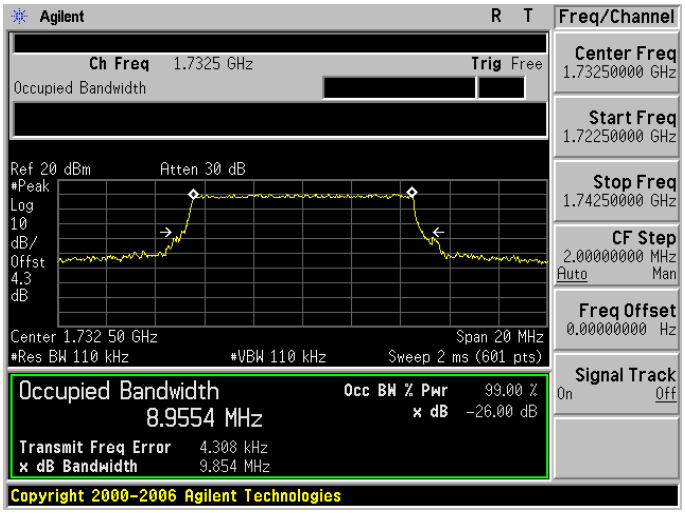
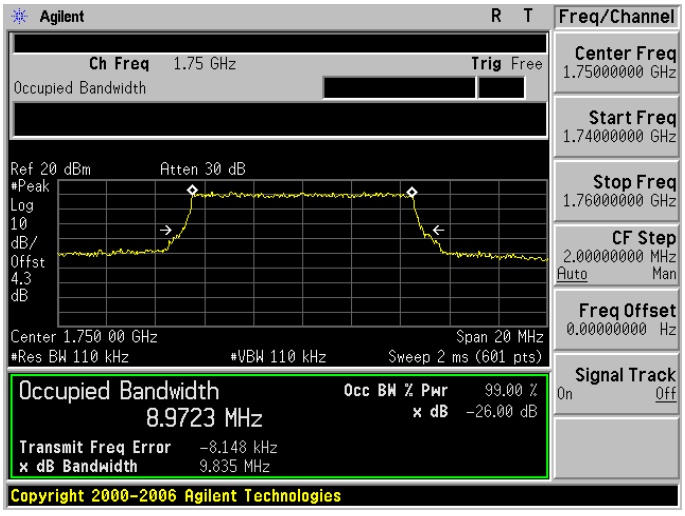
LTE Band 2 (Channel Bandwidth: 15 MHz) _ 16QAM	
1857.5 MHz	
1880.0 MHz	
1902.5 MHz	

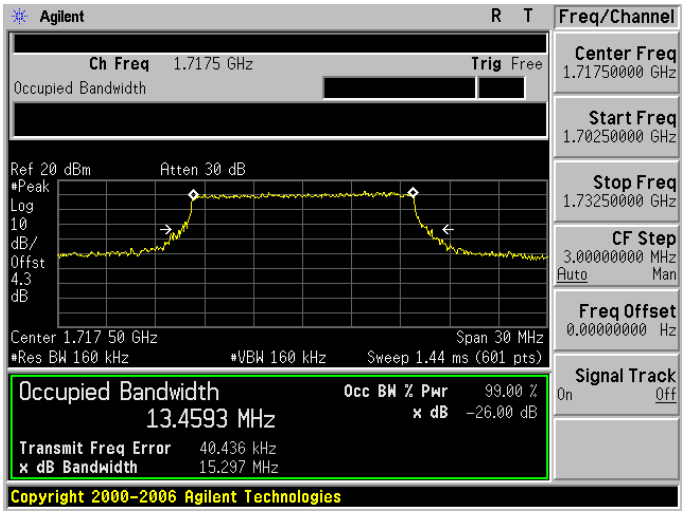
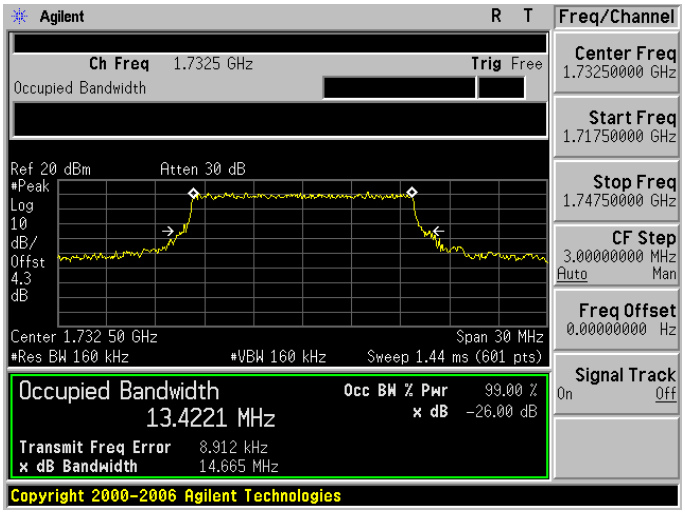
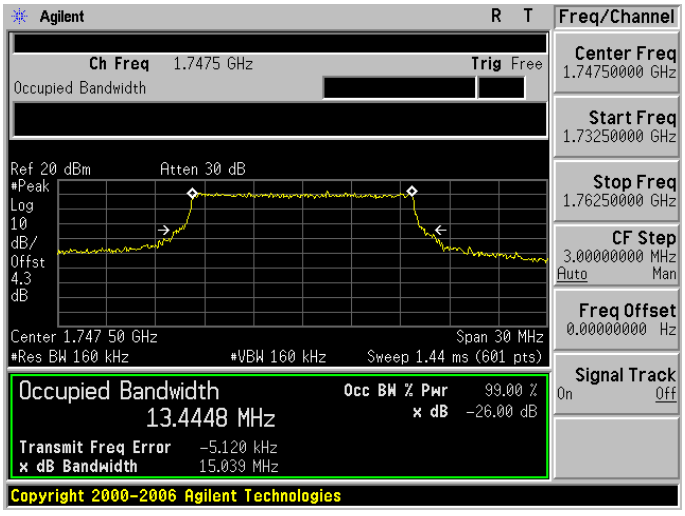
LTE Band 2 (Channel Bandwidth: 20 MHz) _ 16QAM	
1860.0 MHz	
1880.0 MHz	
1900.0 MHz	

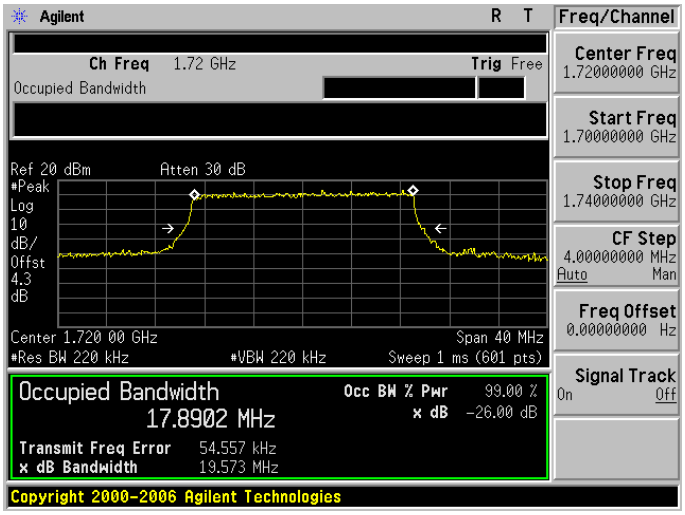
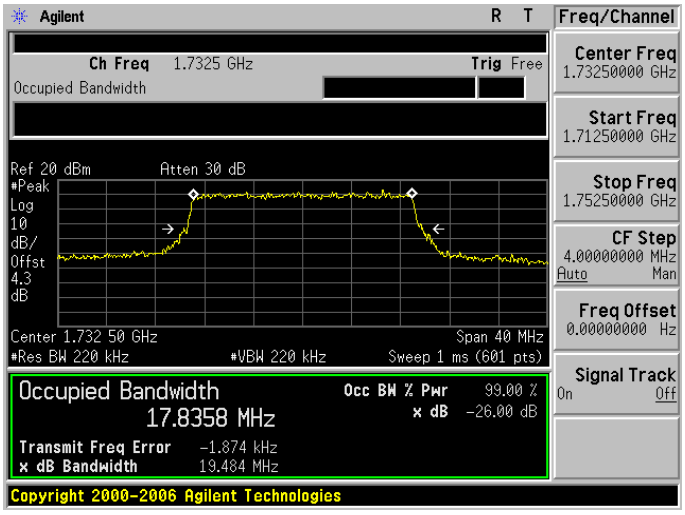
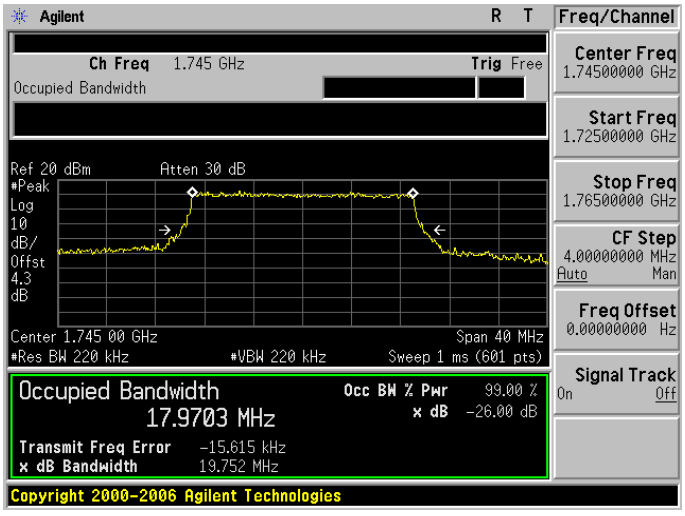
LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1710.7 MHz	
1732.5 MHz	
1754.3 MHz	

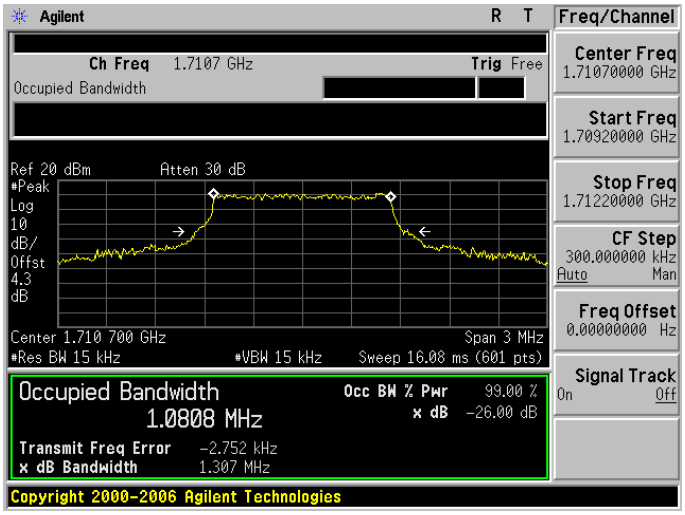
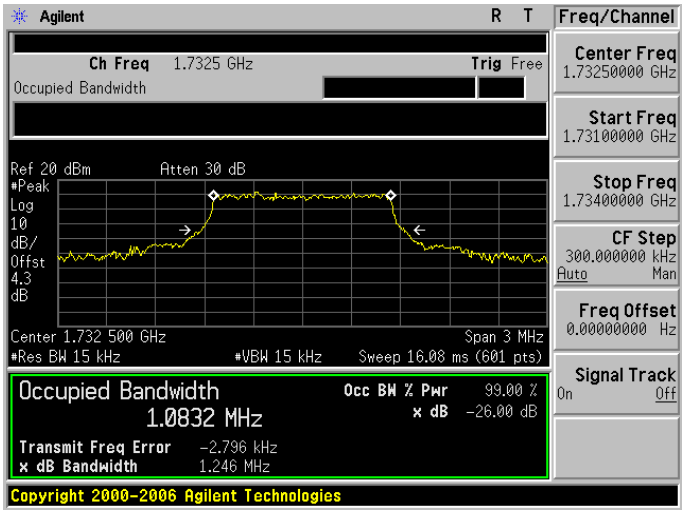
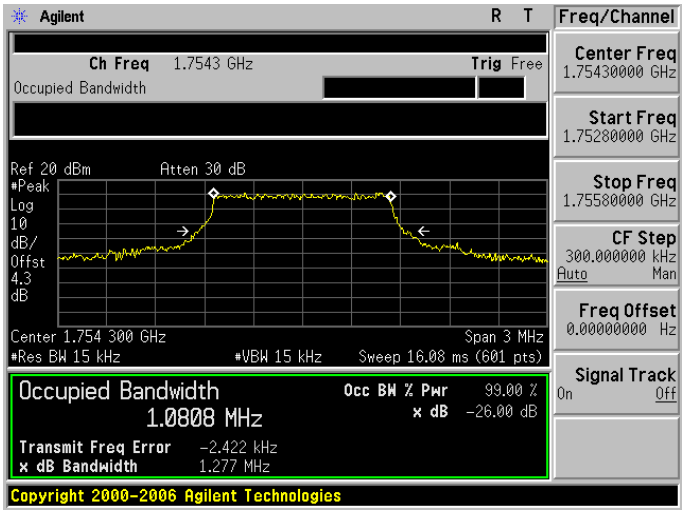
LTE Band 4 (Channel Bandwidth: 3 MHz) _ QPSK	
1711.5 MHz	
1732.5 MHz	
1753.5 MHz	

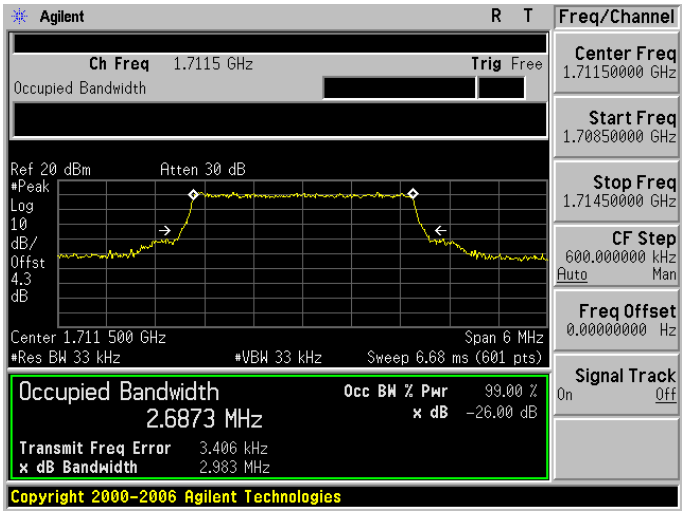
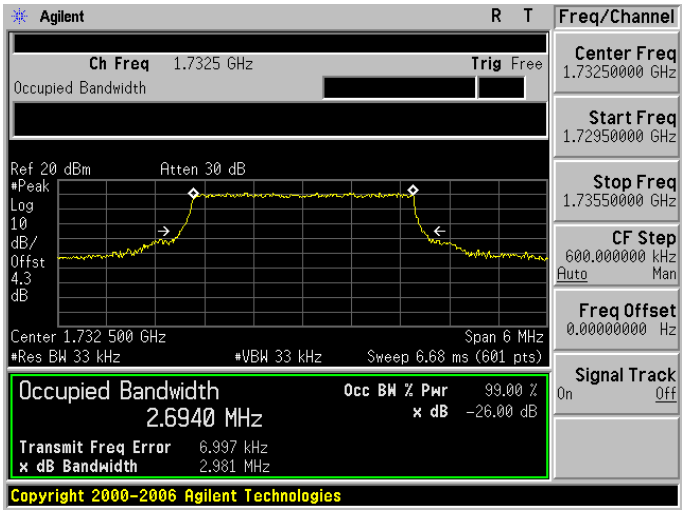
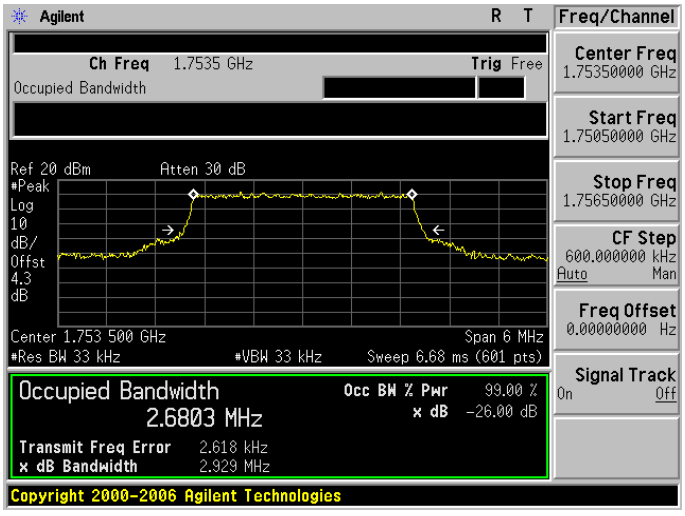
LTE Band 4 (Channel Bandwidth: 5 MHz) _ QPSK	
1712.5 MHz	
1732.5 MHz	
1752.5 MHz	

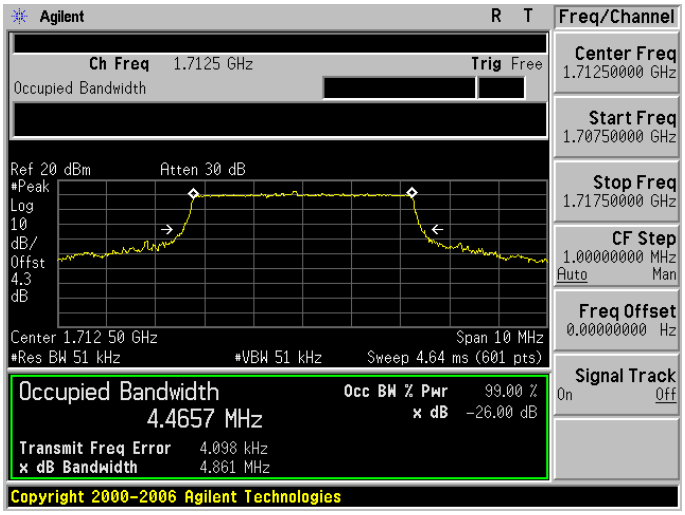
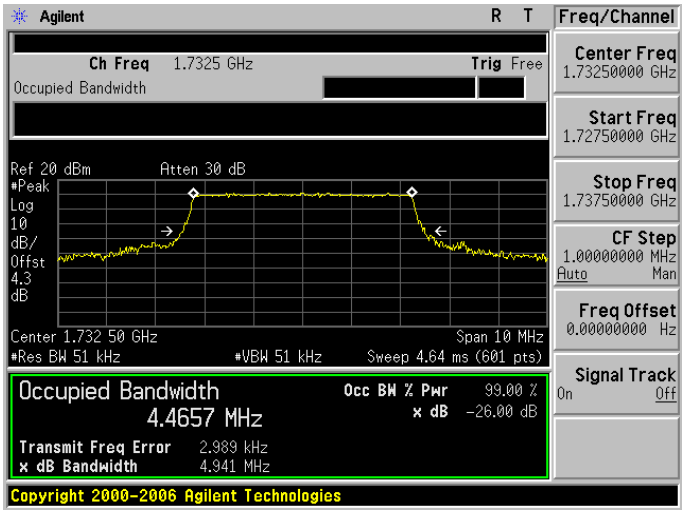
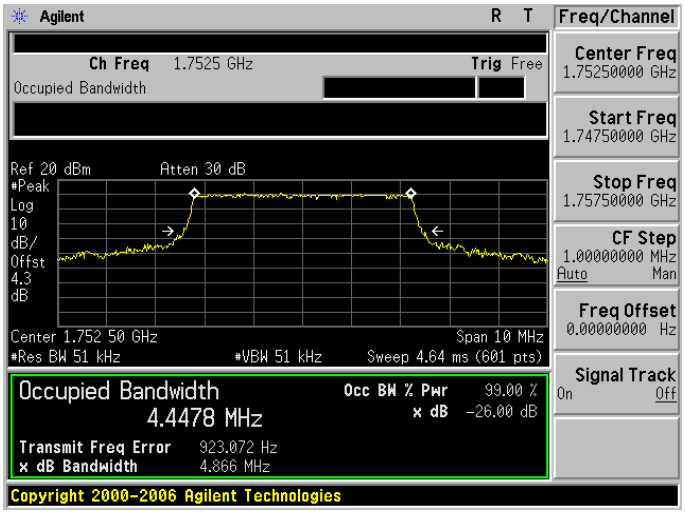
LTE Band 4 (Channel Bandwidth: 10 MHz) _ QPSK	
1715.0 MHz	
1732.5 MHz	
1750.0 MHz	

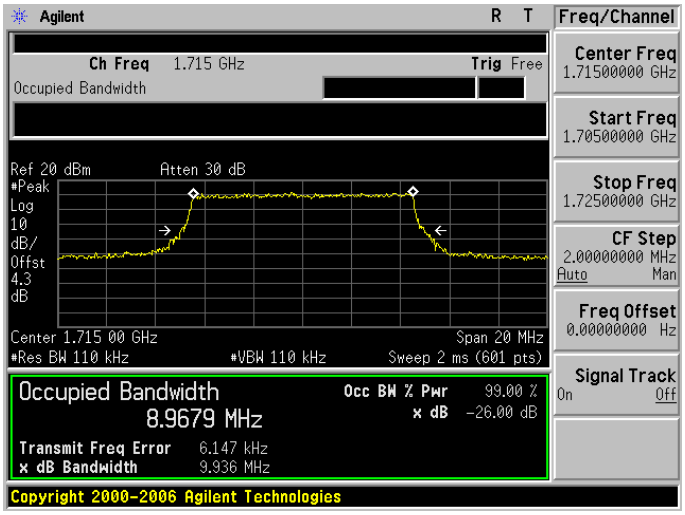
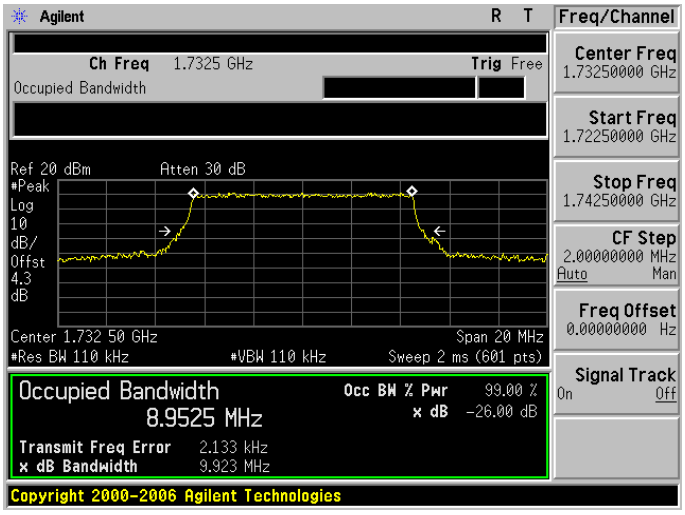
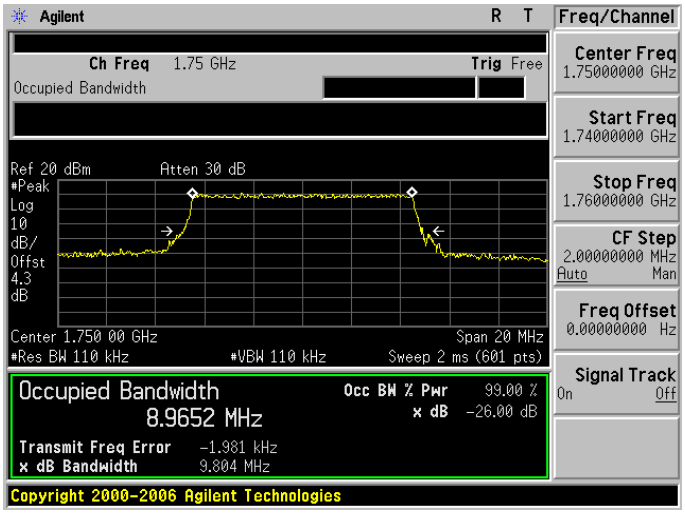
LTE Band 4 (Channel Bandwidth: 15 MHz) _ QPSK	
1717.5 MHz	
1732.5 MHz	
1747.5 MHz	

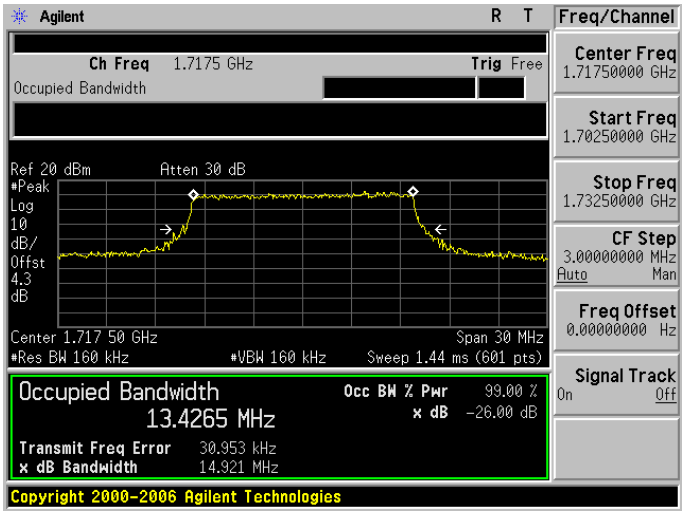
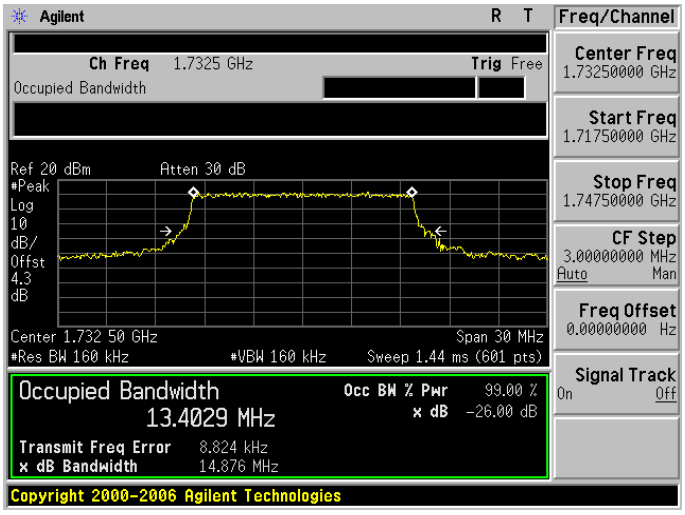
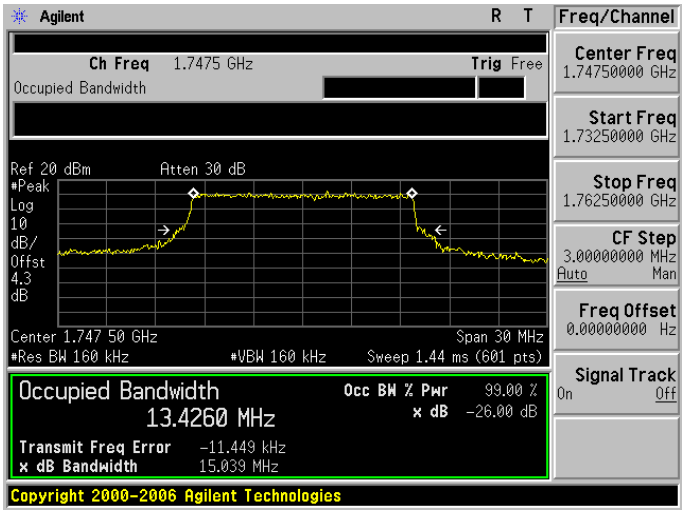
LTE Band 4 (Channel Bandwidth: 20 MHz) _ QPSK	
1720.0 MHz	
1732.5 MHz	
1745.0 MHz	

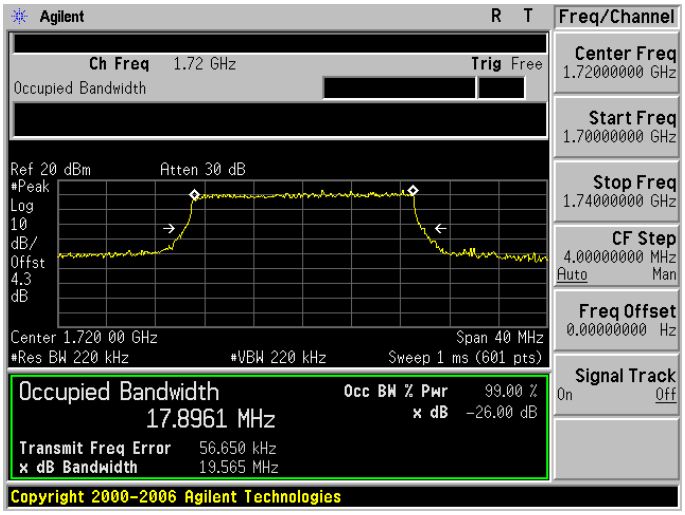
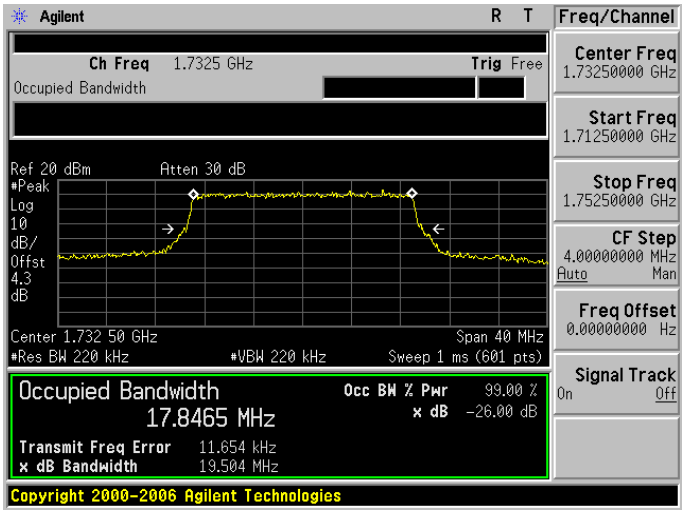
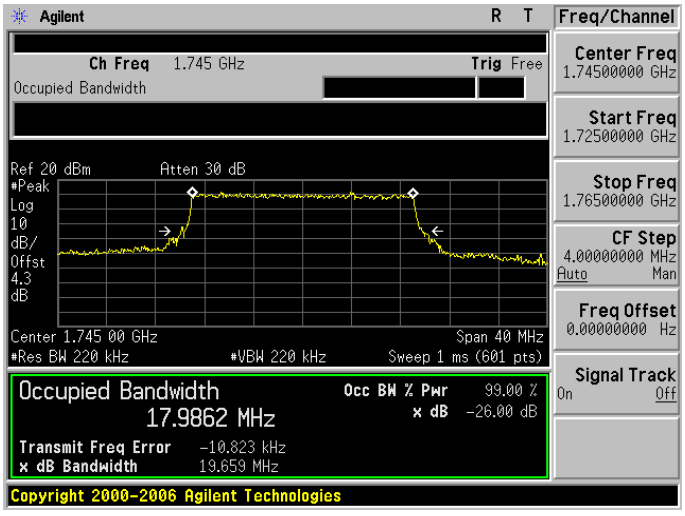
LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1710.7 MHz	
1732.5 MHz	
1754.3 MHz	

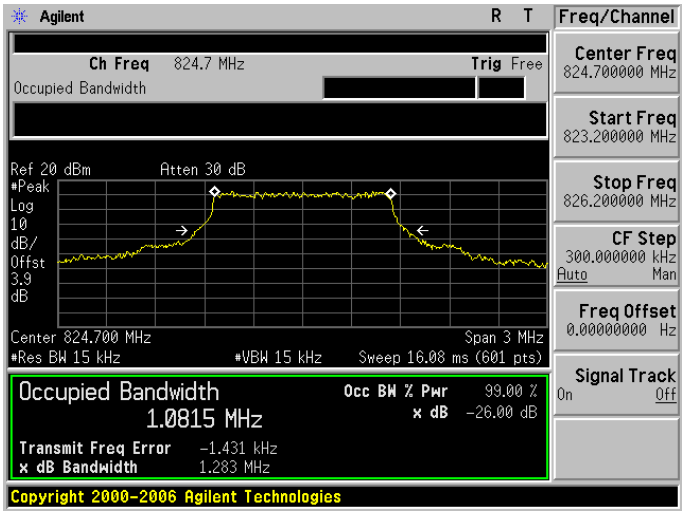
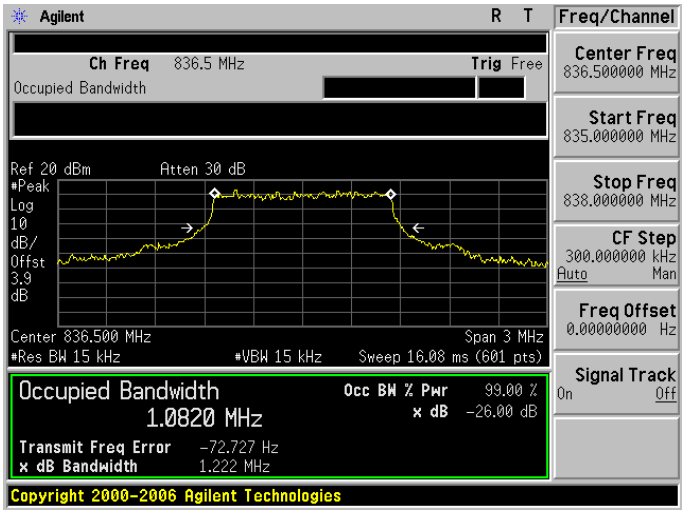
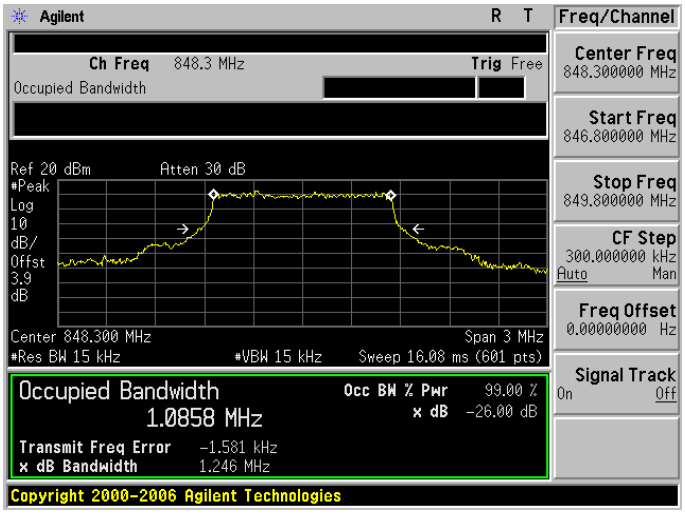
LTE Band 4 (Channel Bandwidth: 3 MHz) _ 16QAM	
1711.5 MHz	
1732.5 MHz	
1753.5 MHz	

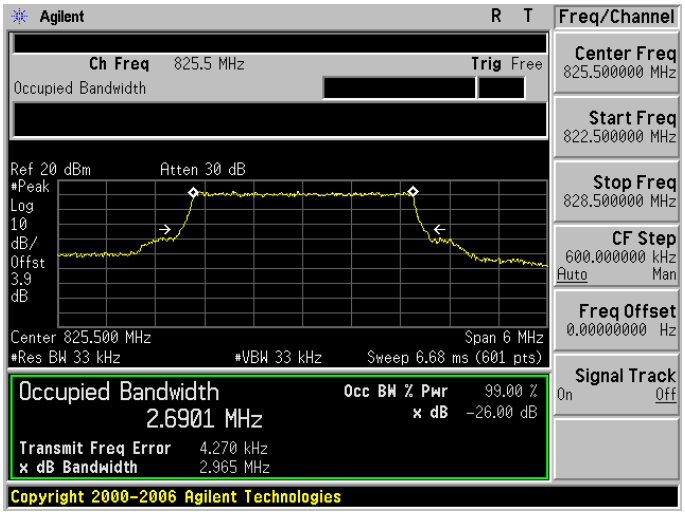
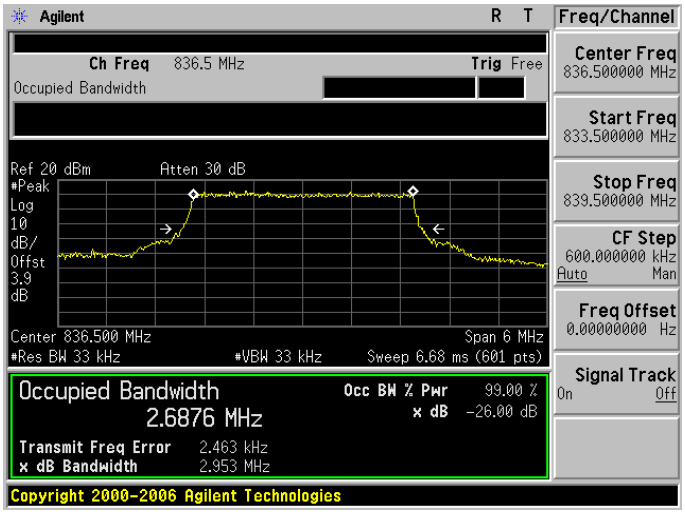
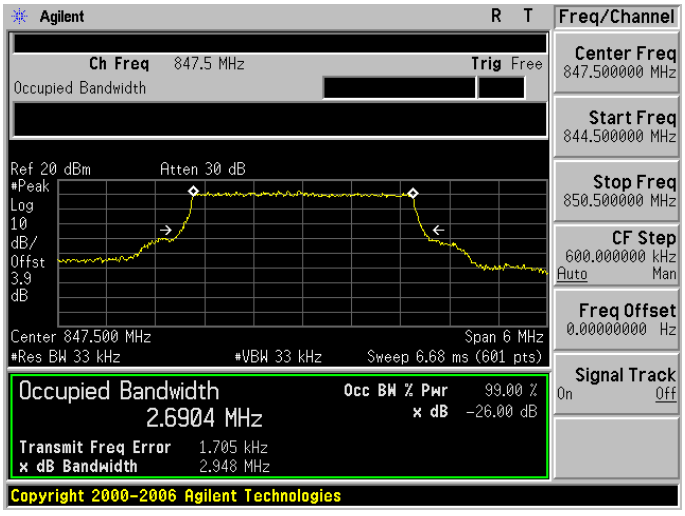
LTE Band 4 (Channel Bandwidth: 5 MHz) _ 16QAM	
1712.5 MHz	
1732.5 MHz	
1752.5 MHz	

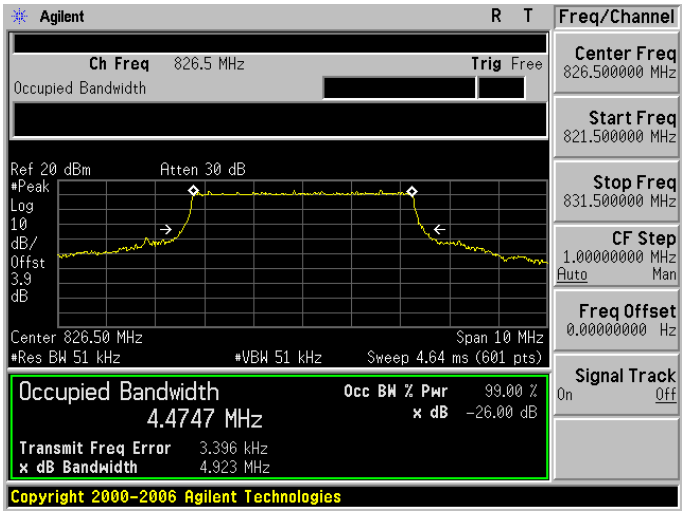
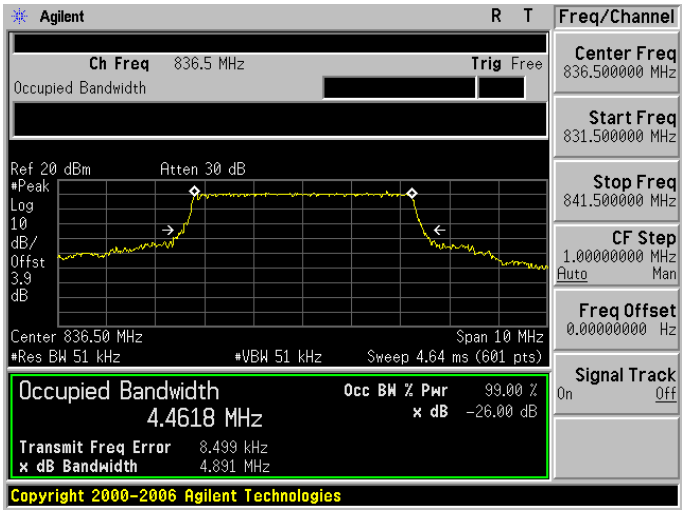
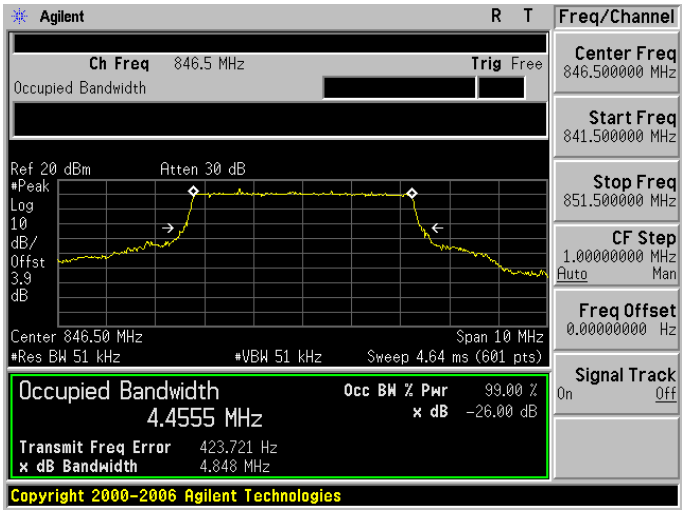
LTE Band 4 (Channel Bandwidth: 10 MHz) _ 16QAM	
1715.0 MHz	
1732.5 MHz	
1750.0 MHz	

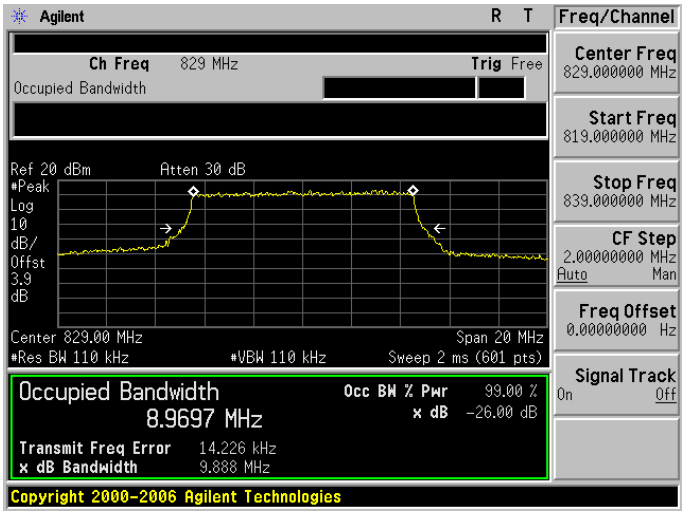
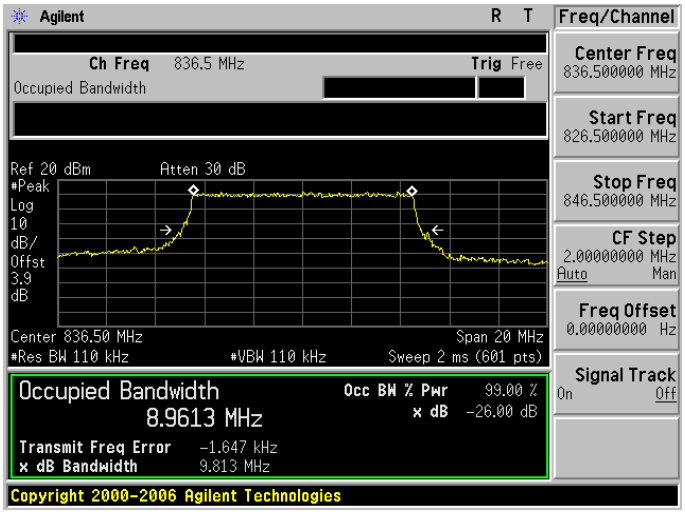
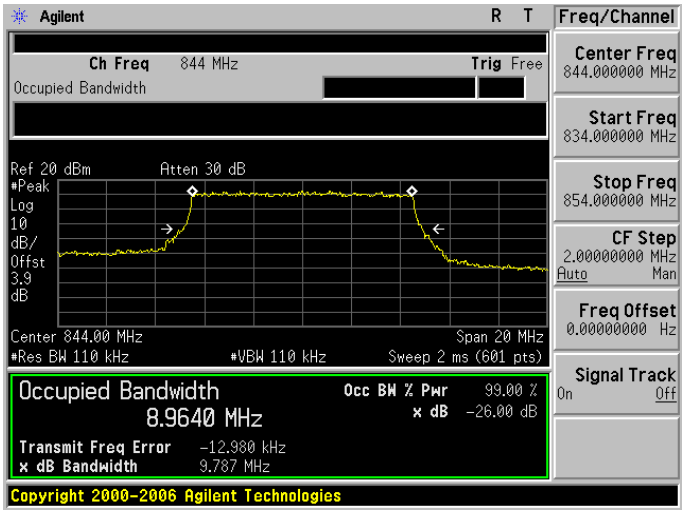
LTE Band 4 (Channel Bandwidth: 15 MHz) _ 16QAM	
1717.5 MHz	
1732.5 MHz	
1747.5 MHz	

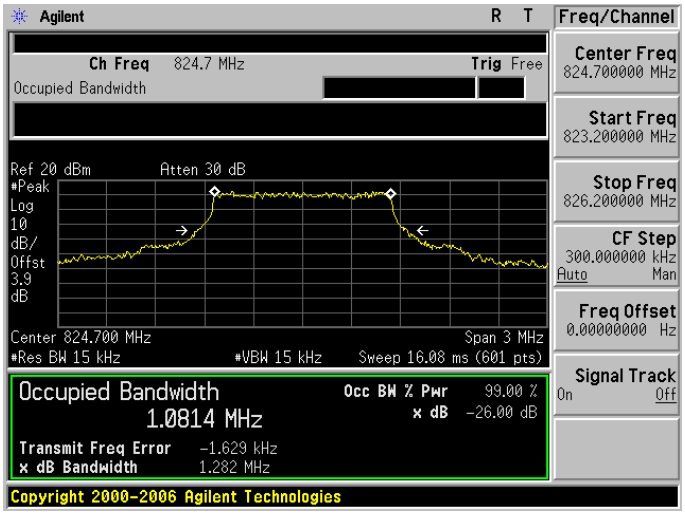
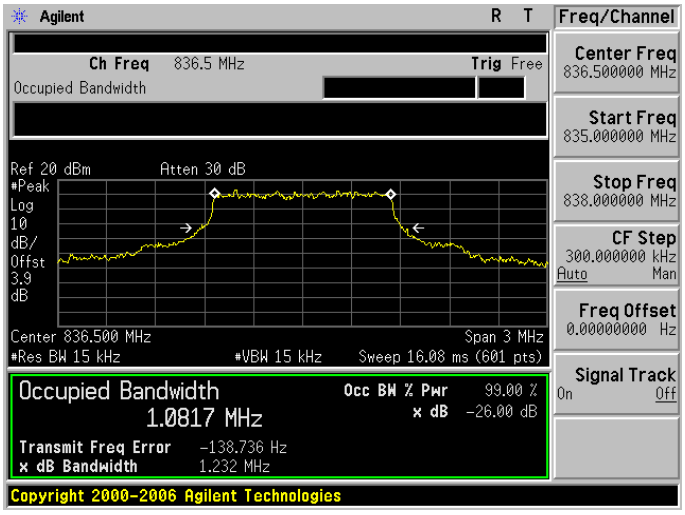
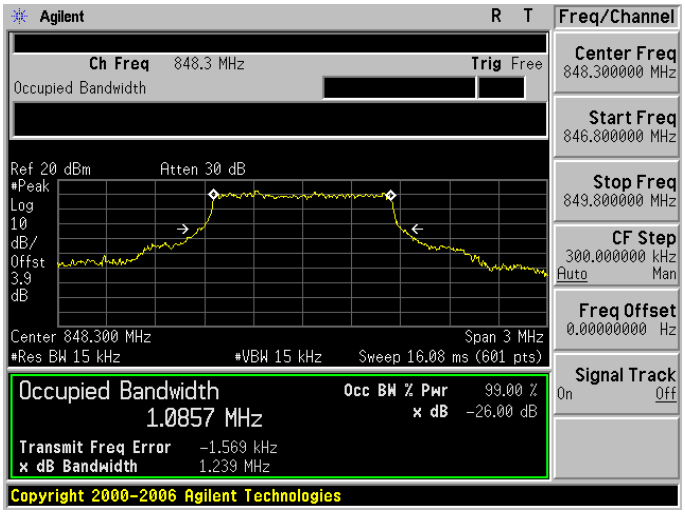
LTE Band 4 (Channel Bandwidth: 20 MHz) _ 16QAM	
1720.0 MHz	
1732.5 MHz	
1745.0 MHz	

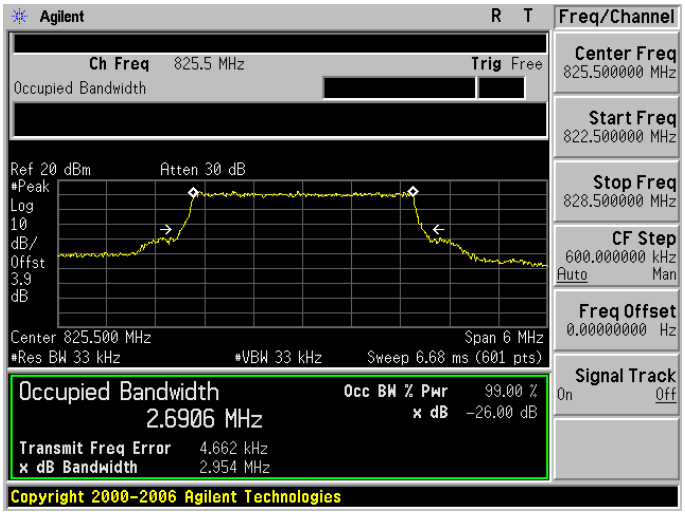
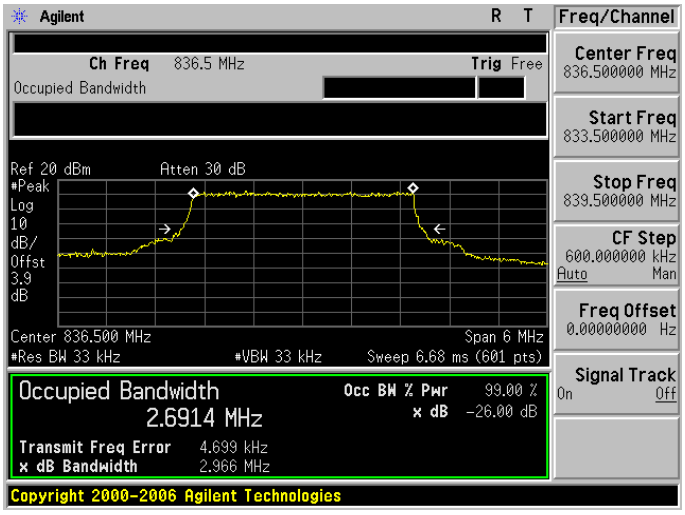
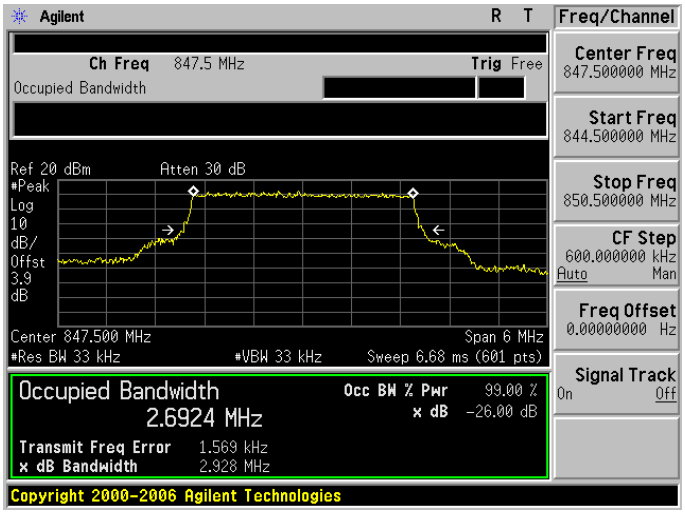
LTE Band 5 (Channel Bandwidth: 1.4 MHz) _ QPSK	
824.7 MHz	
836.5 MHz	
848.3 MHz	

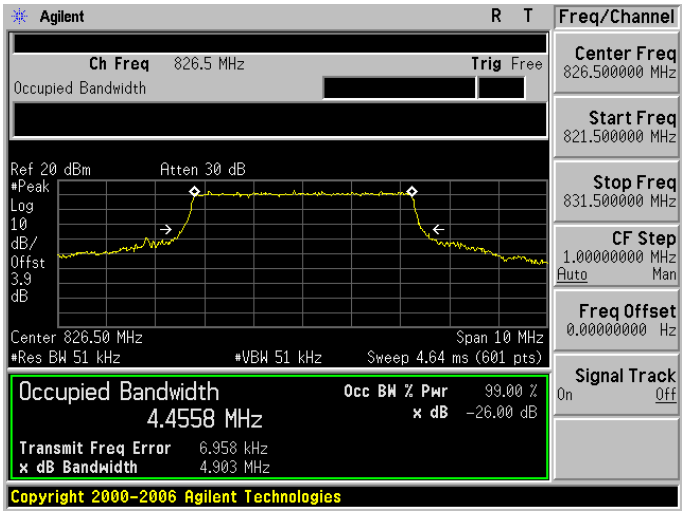
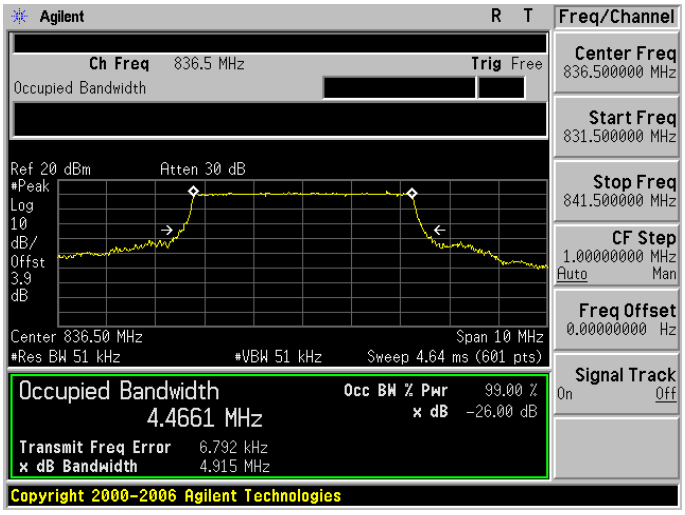
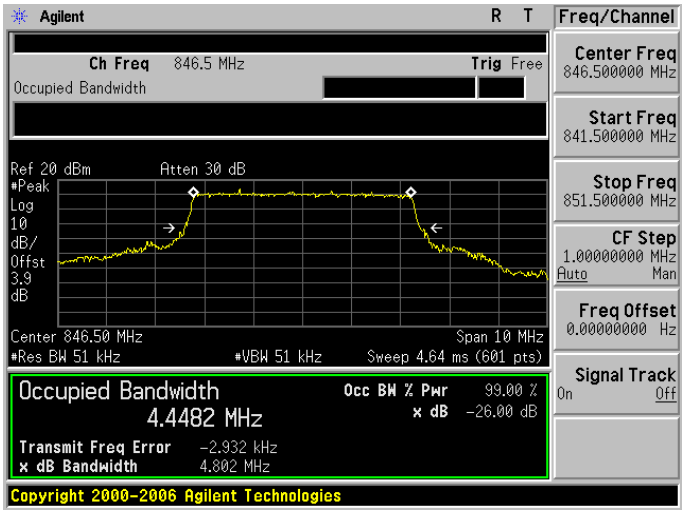
LTE Band 5 (Channel Bandwidth: 3 MHz) _ QPSK	
825.5 MHz	
836.5 MHz	
847.5 MHz	

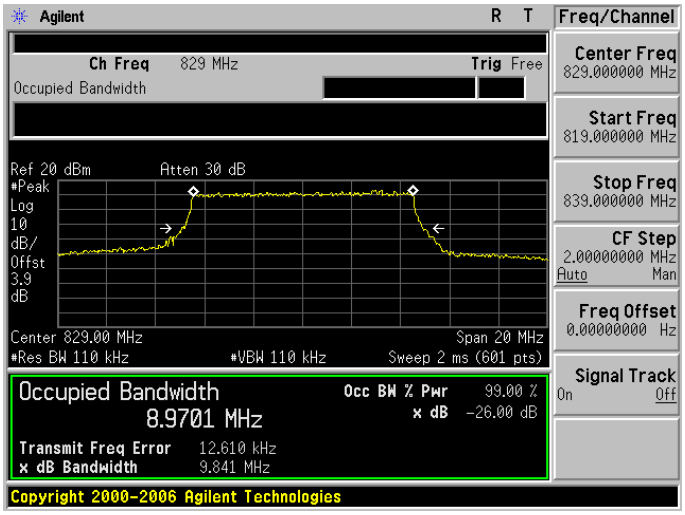
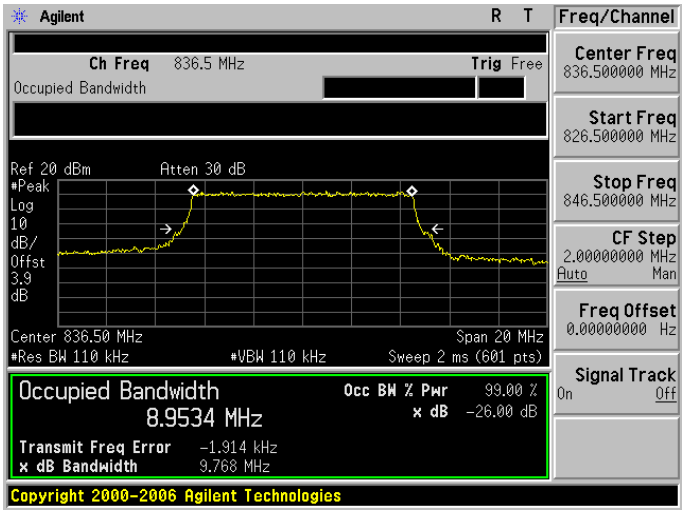
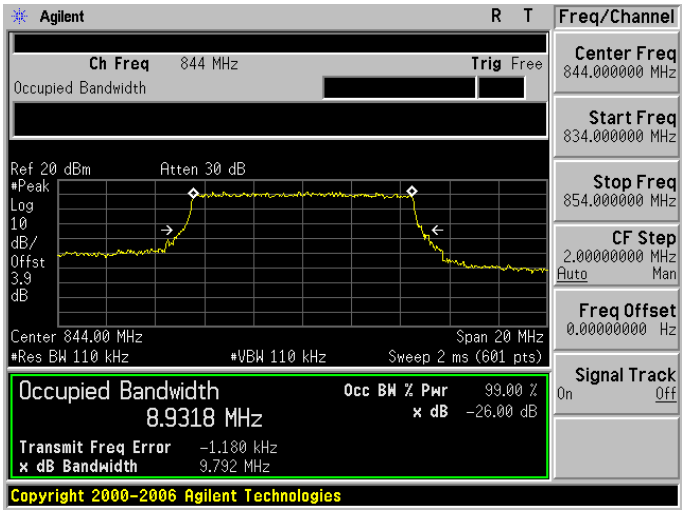
LTE Band 5 (Channel Bandwidth: 5 MHz) _ QPSK	
826.5 MHz	
836.5 MHz	
846.5 MHz	

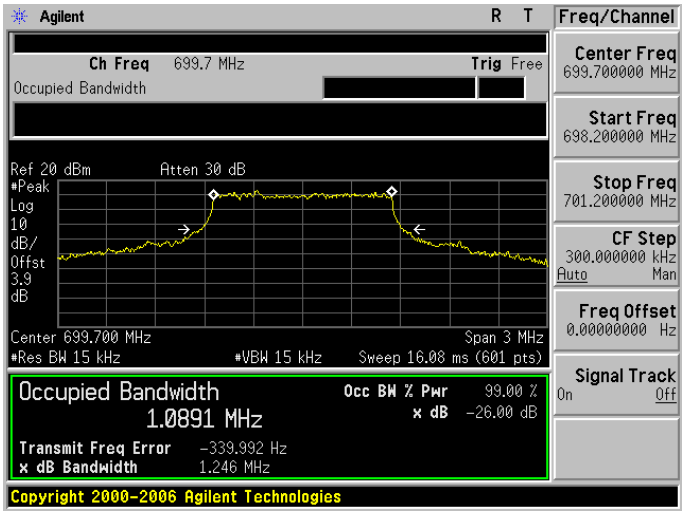
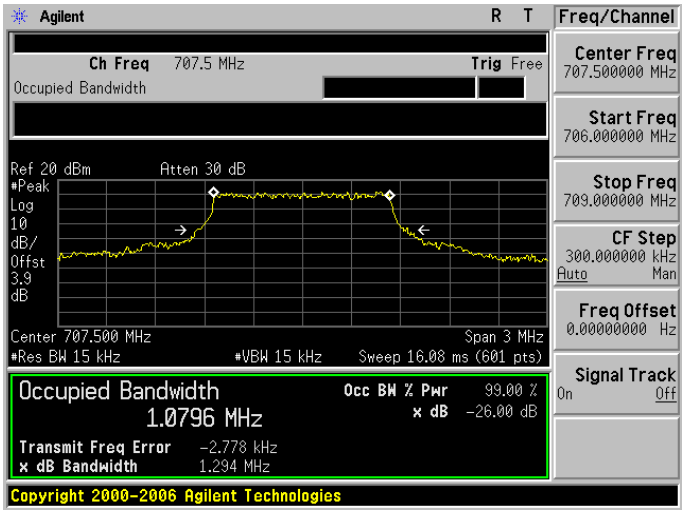
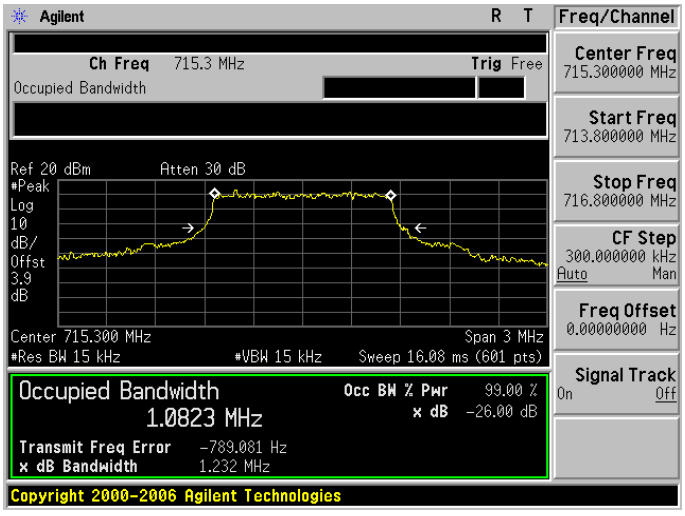
LTE Band 5 (Channel Bandwidth: 10 MHz) _ QPSK	
829.0 MHz	
836.5 MHz	
844.0 MHz	

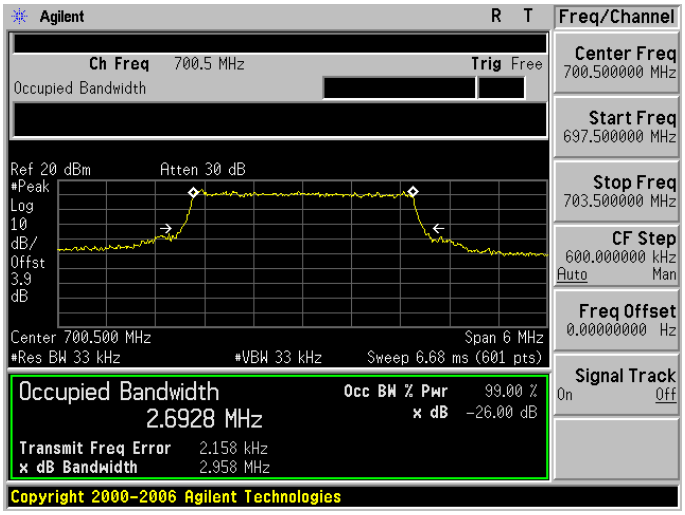
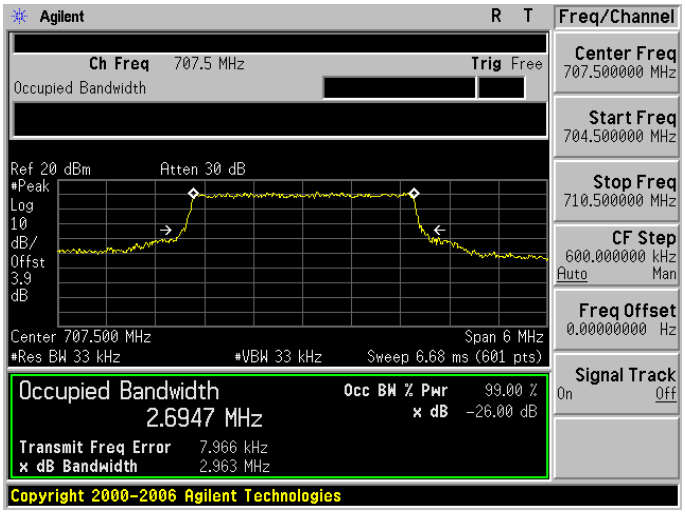
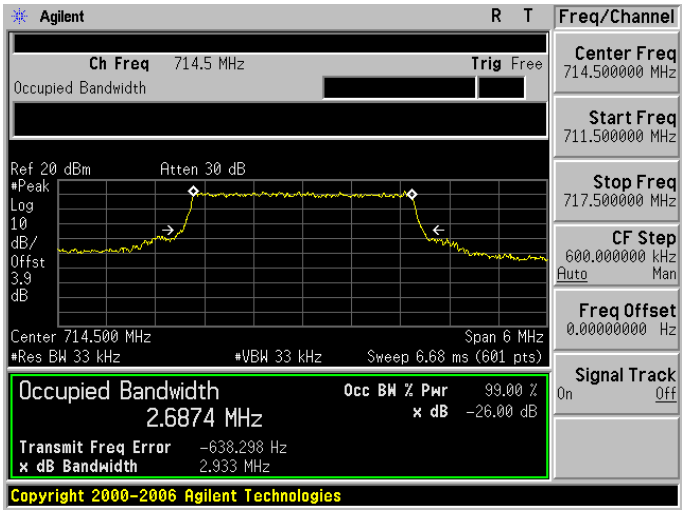
LTE Band 5 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
824.7 MHz	
836.5 MHz	
848.3 MHz	

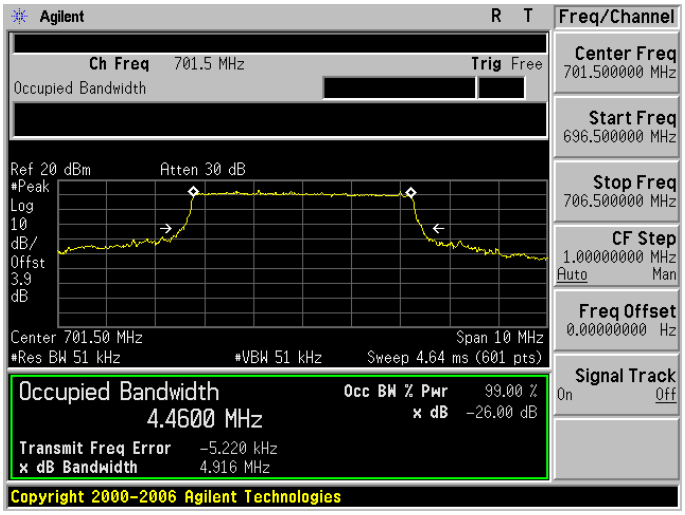
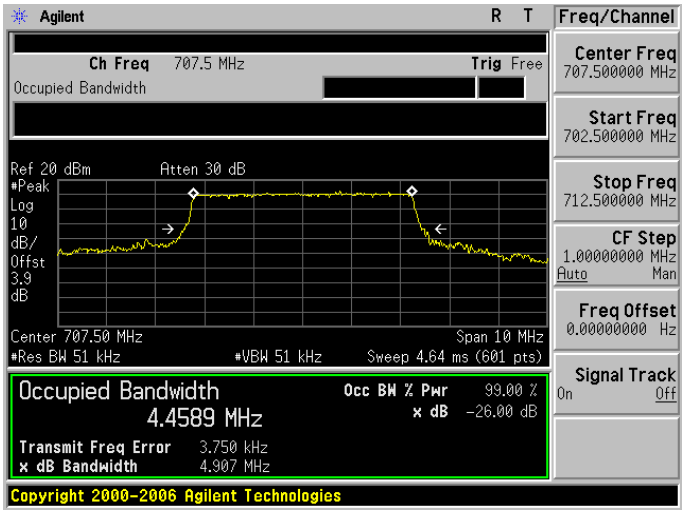
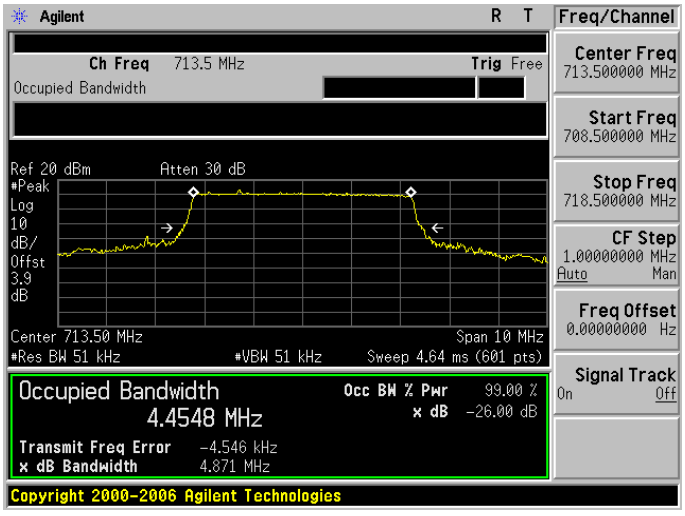
LTE Band 5 (Channel Bandwidth: 3 MHz) _ 16QAM	
825.5 MHz	
836.5 MHz	
847.5 MHz	

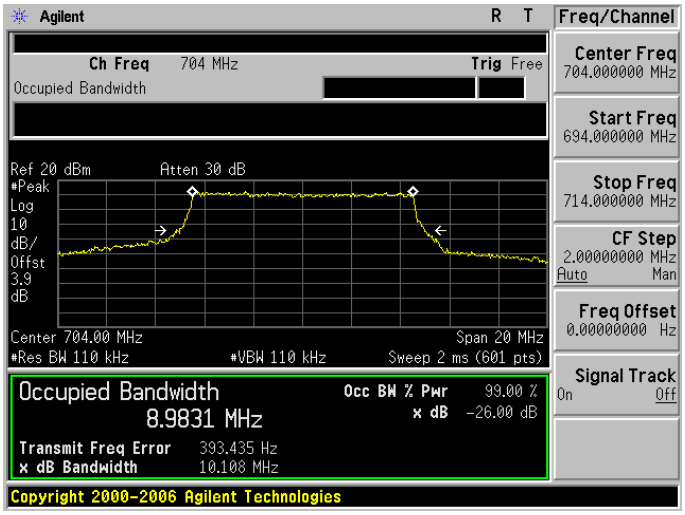
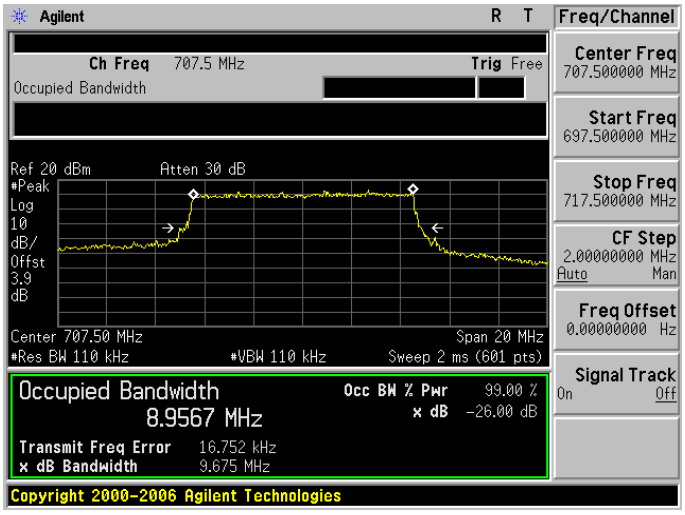
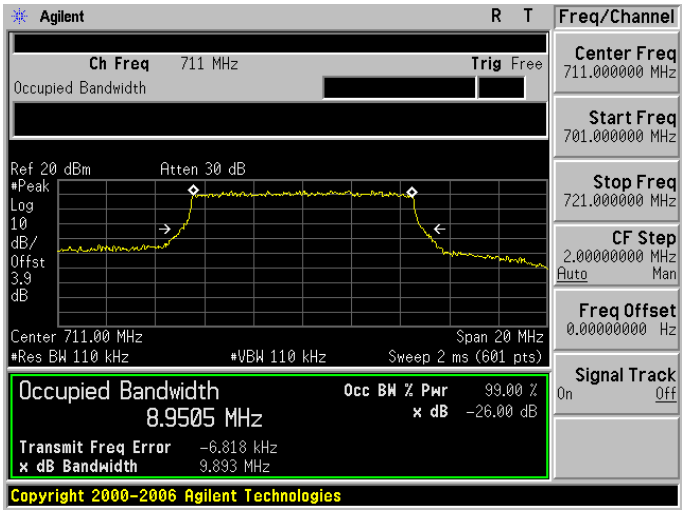
LTE Band 5 (Channel Bandwidth: 5 MHz) _ 16QAM	
826.5 MHz	
836.5 MHz	
846.5 MHz	

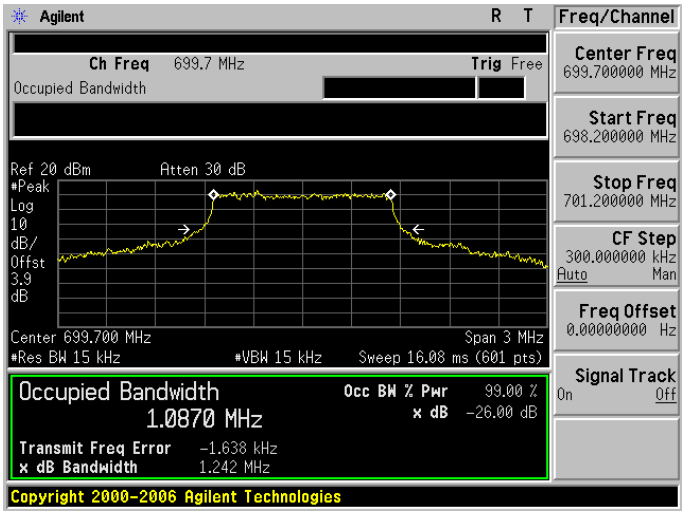
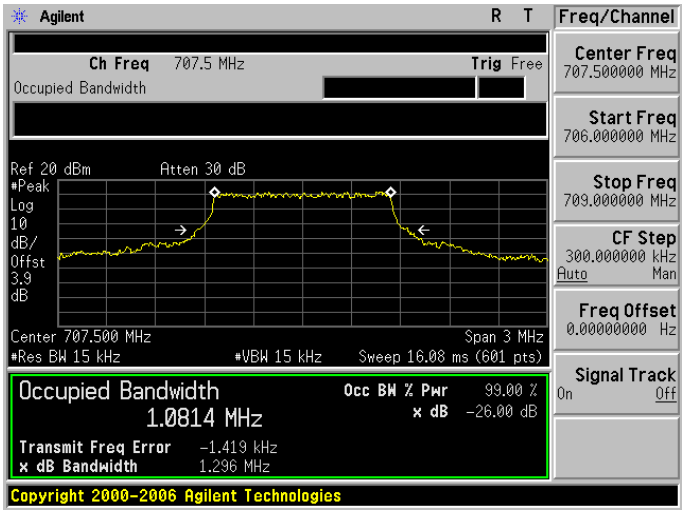
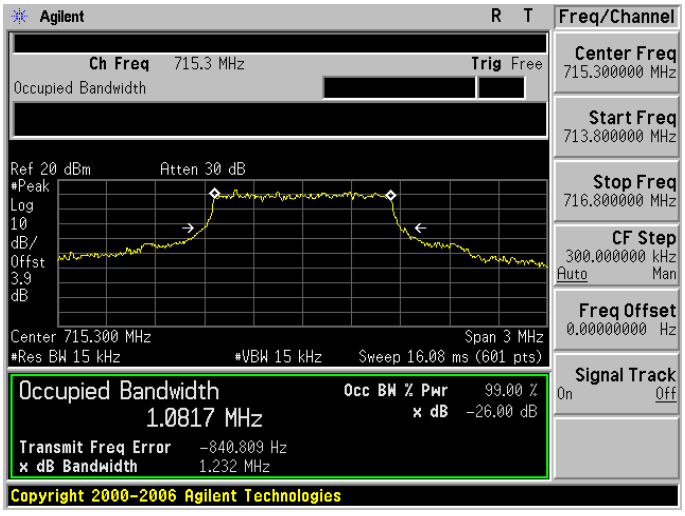
LTE Band 5 (Channel Bandwidth: 10 MHz) _ 16QAM	
829.0 MHz	
836.5 MHz	
844.0 MHz	

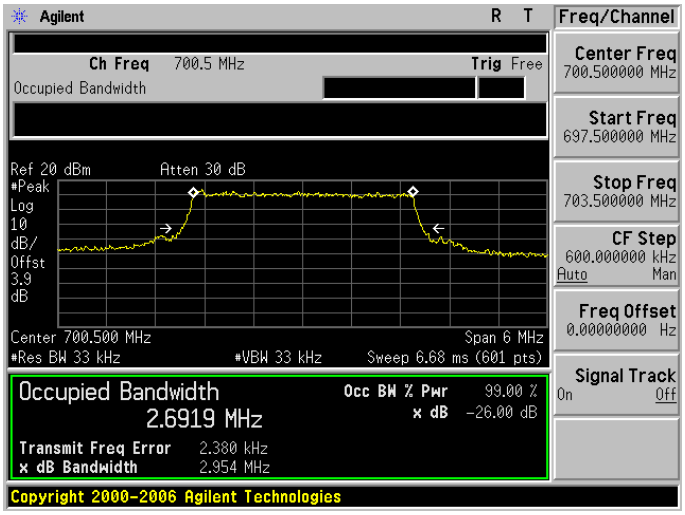
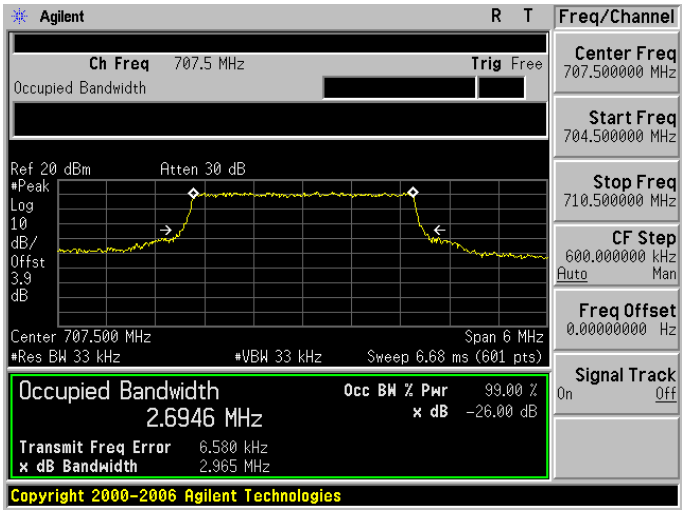
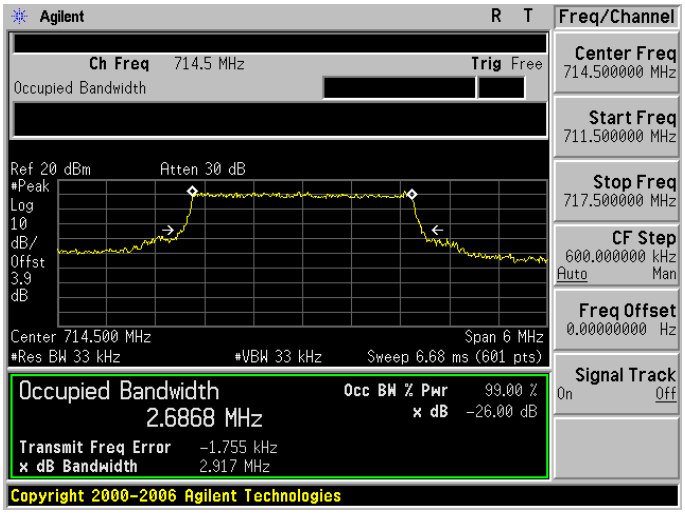
LTE Band 12 (Channel Bandwidth: 1.4 MHz) _ QPSK	
699.7 MHz	
707.5 MHz	
715.3 MHz	

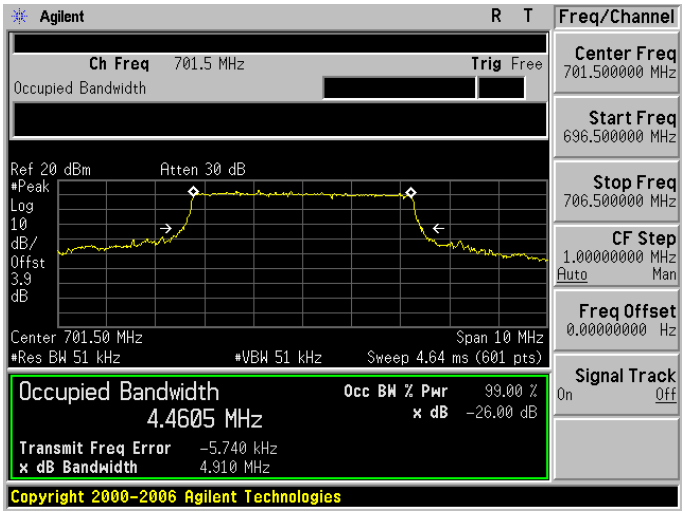
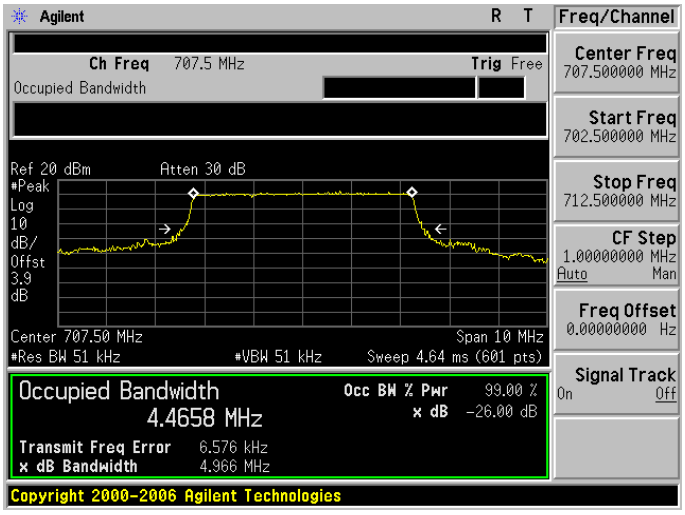
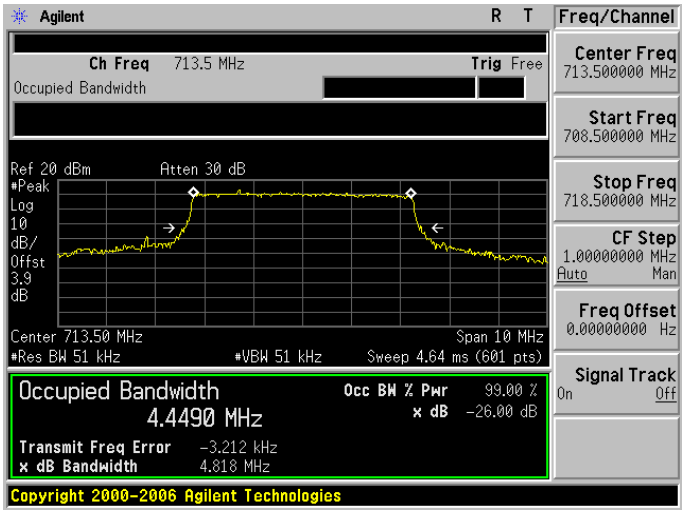
LTE Band 12 (Channel Bandwidth: 3 MHz) _ QPSK	
700.5 MHz	
707.5 MHz	
714.5 MHz	

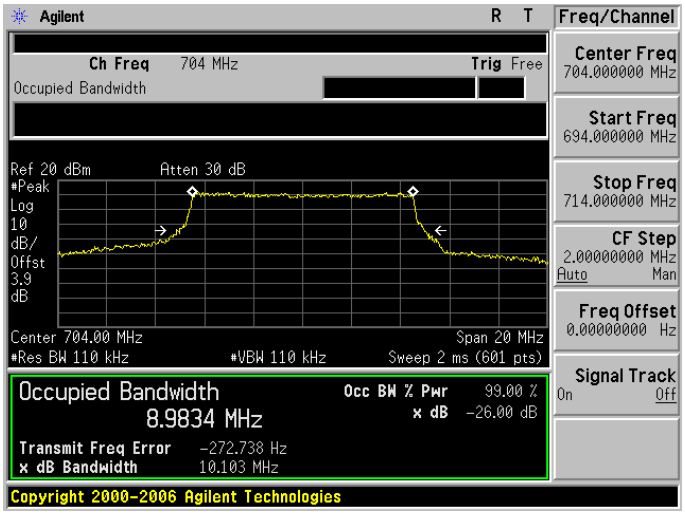
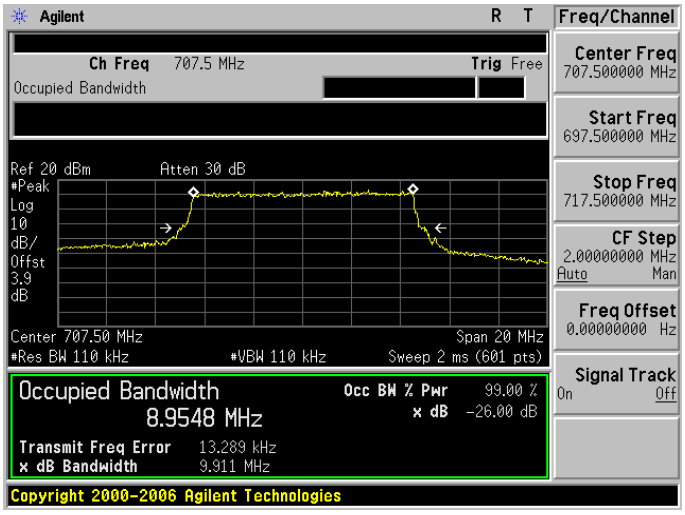
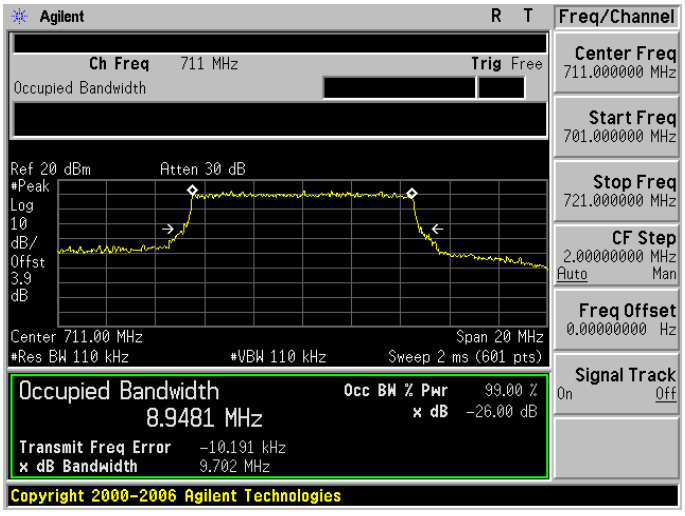
LTE Band 12 (Channel Bandwidth: 5 MHz) _ QPSK	
701.5 MHz	
707.5 MHz	
713.5 MHz	

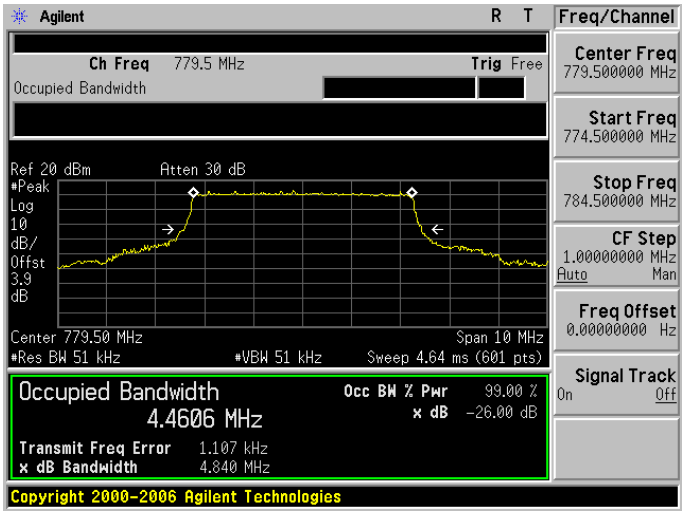
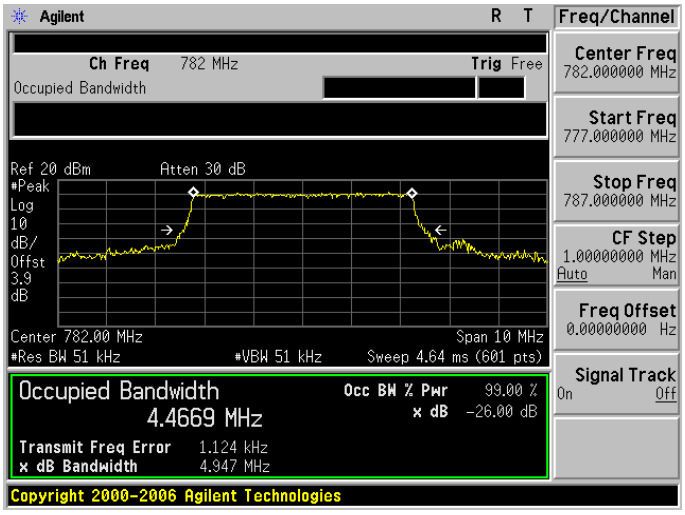
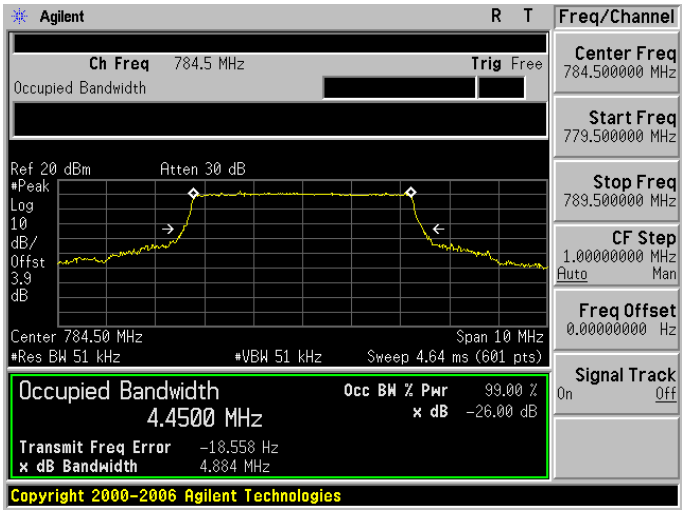
LTE Band 12 (Channel Bandwidth: 10 MHz) _ QPSK	
704.0 MHz	
707.5 MHz	
711.0 MHz	

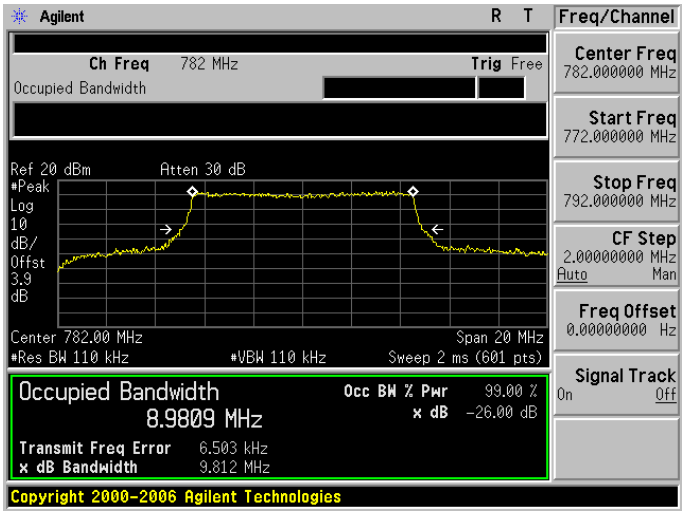
LTE Band 12 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
669.7 MHz	
707.5 MHz	
715.3 MHz	

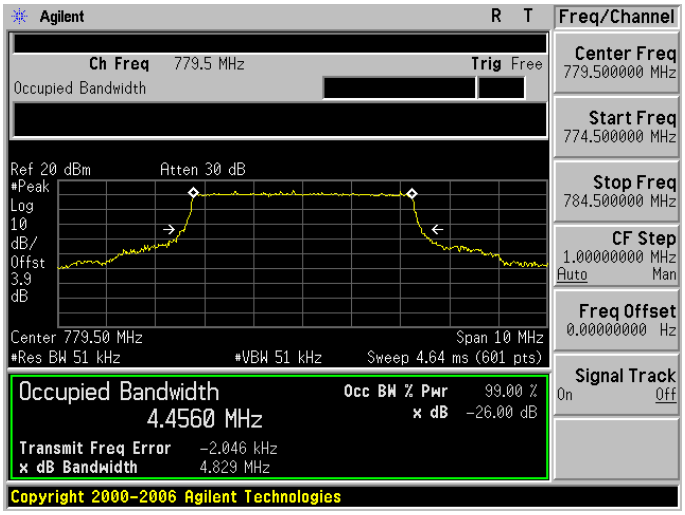
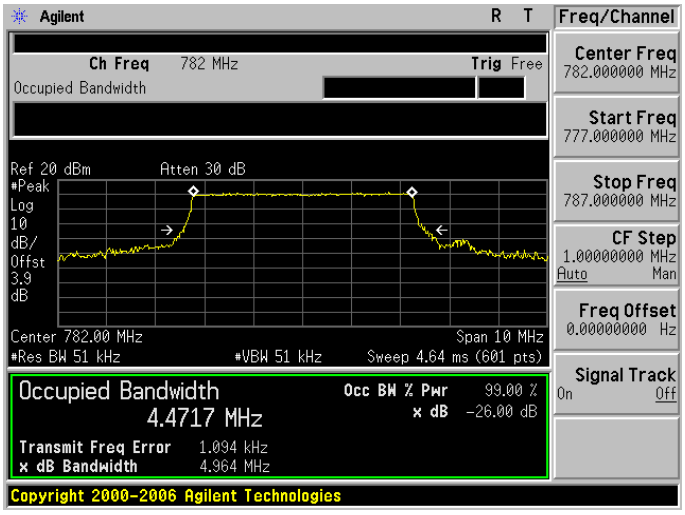
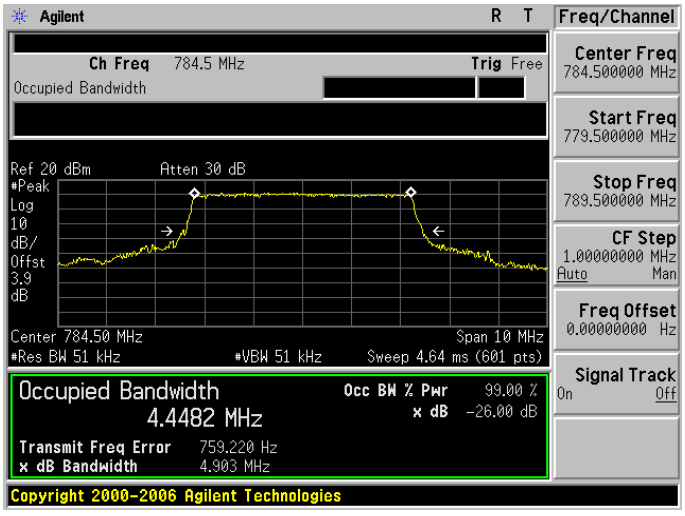
LTE Band 12 (Channel Bandwidth: 3 MHz) _ 16QAM	
700.5 MHz	
707.5 MHz	
714.5 MHz	

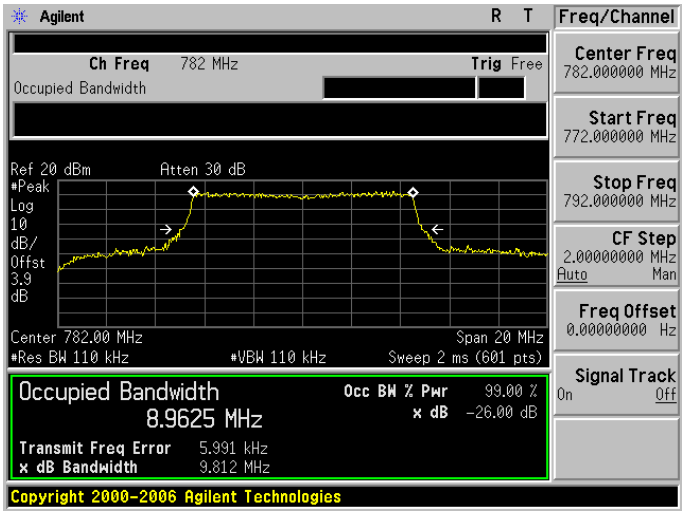
LTE Band 12 (Channel Bandwidth: 5 MHz) _ 16QAM	
701.5 MHz	
707.5 MHz	
713.5 MHz	

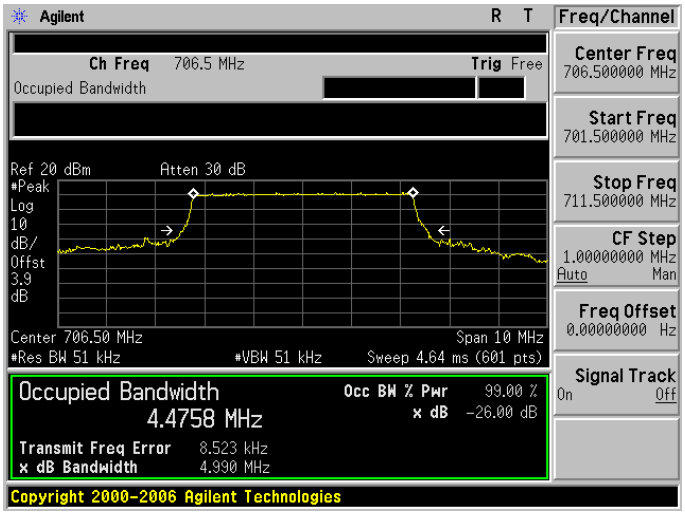
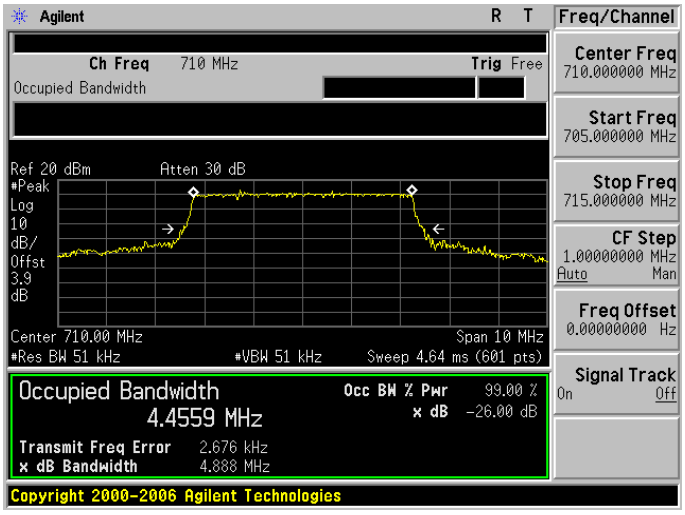
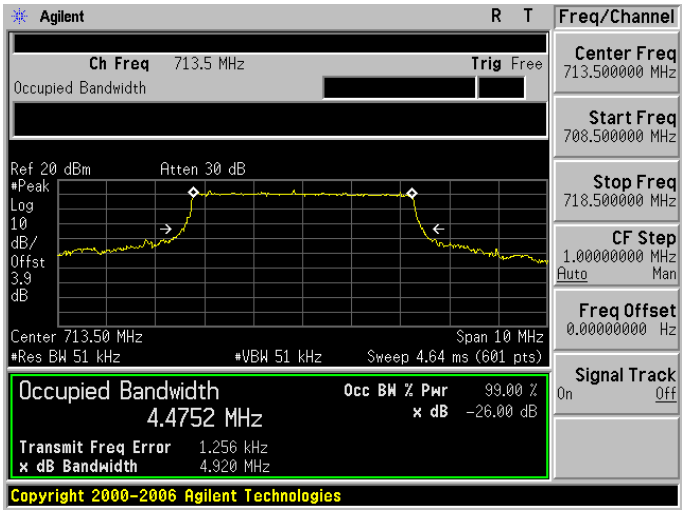
LTE Band 12 (Channel Bandwidth: 10 MHz) _ 16QAM	
704.0 MHz	
707.5 MHz	
711.0 MHz	

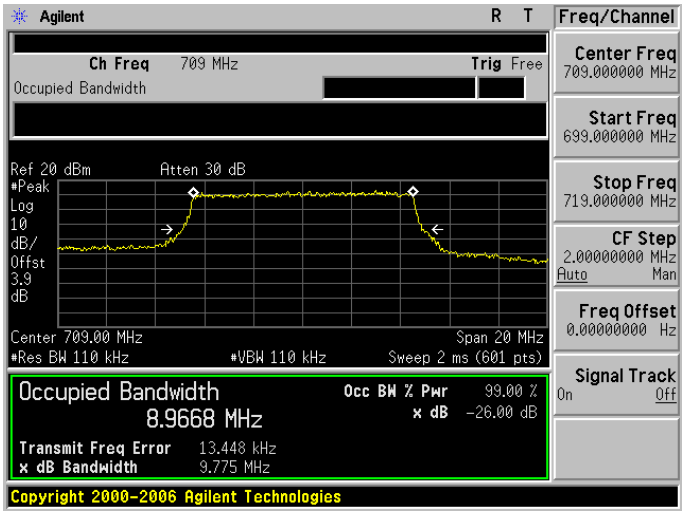
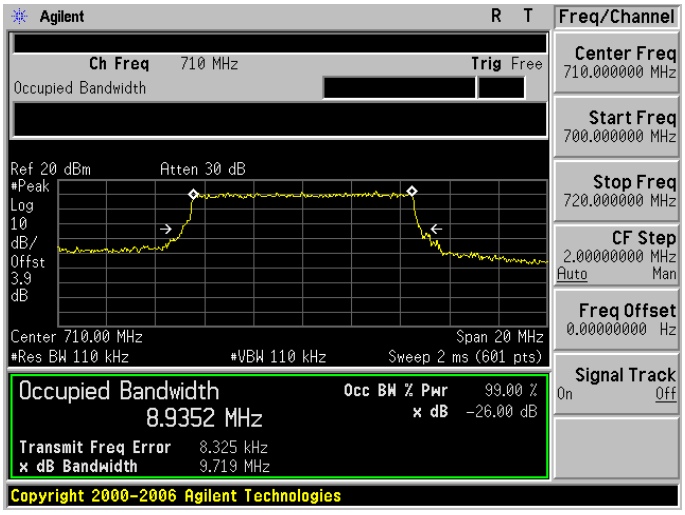
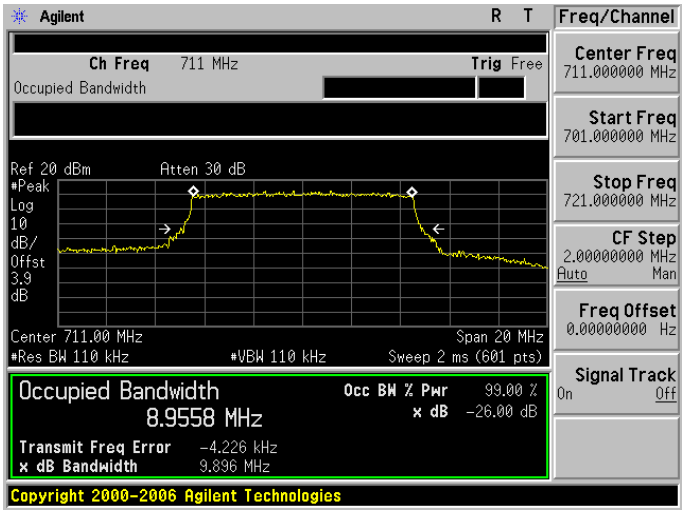
LTE Band 13 (Channel Bandwidth: 5 MHz) _ QPSK	
779.5 MHz	
782.0 MHz	
784.5 MHz	

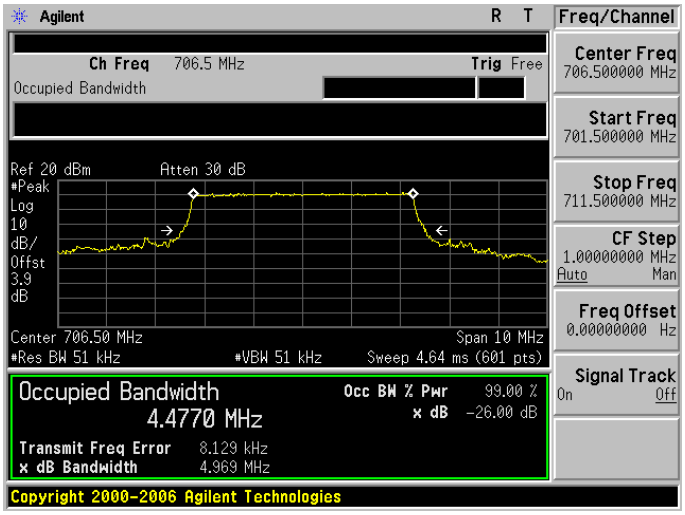
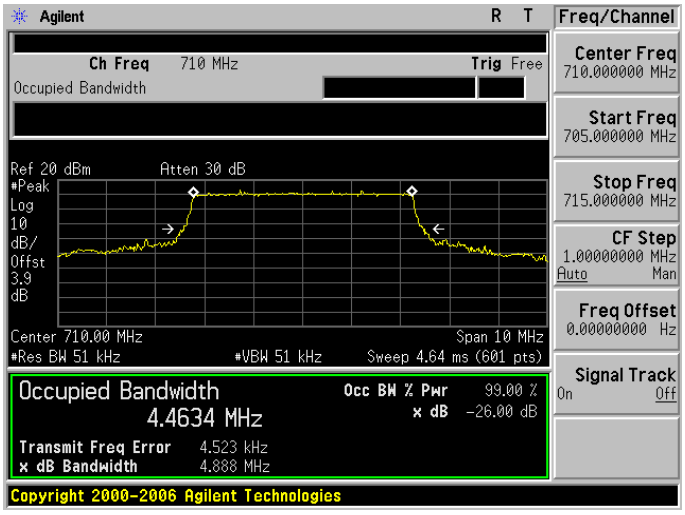
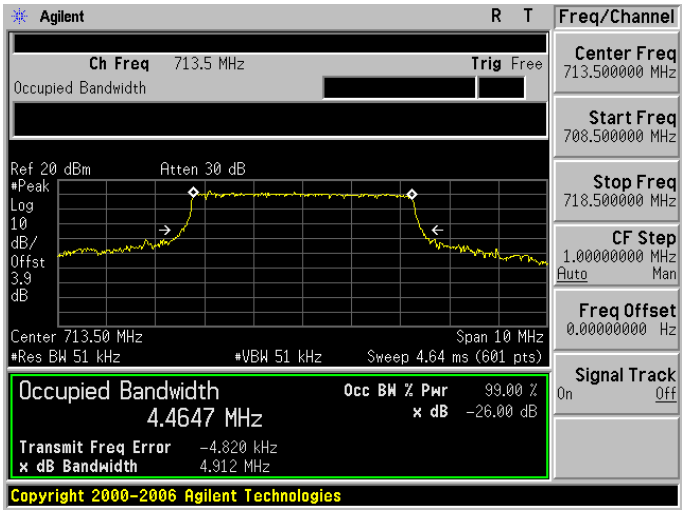
LTE Band 13 (Channel Bandwidth: 10 MHz) _ QPSK	
782.0 MHz	

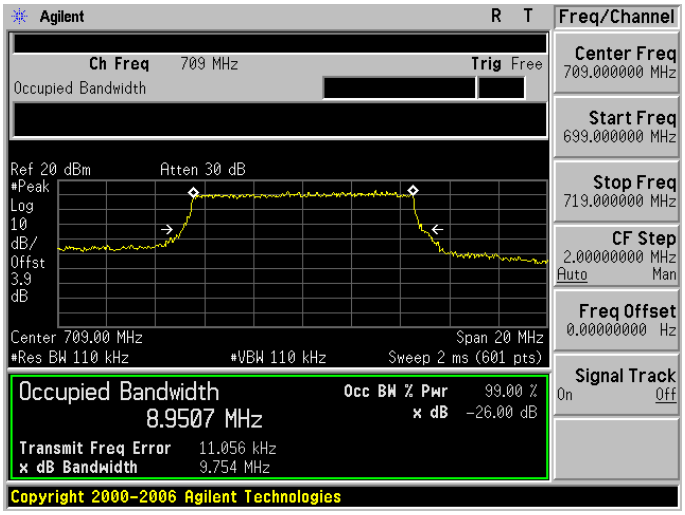
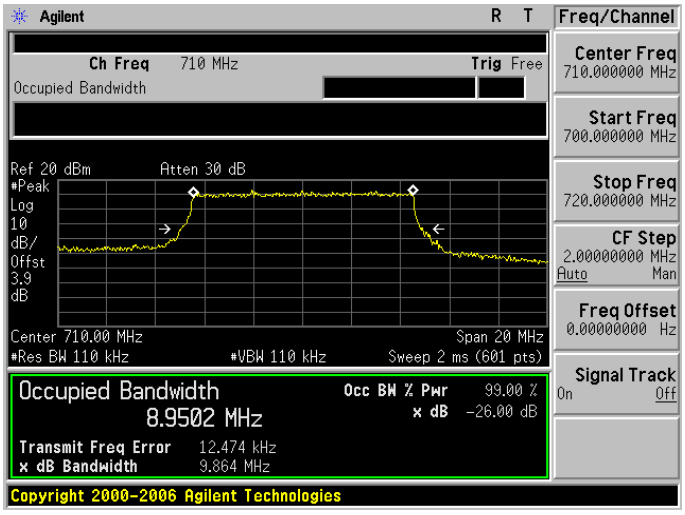
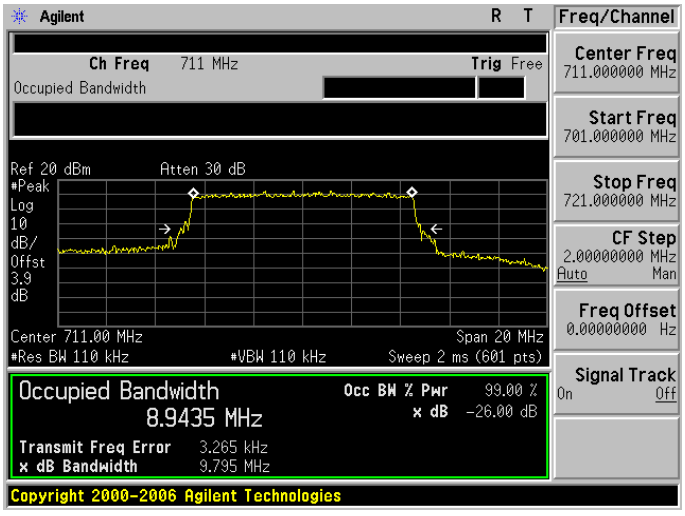
LTE Band 13 (Channel Bandwidth: 5 MHz) _ 16QAM	
779.5 MHz	
782.0 MHz	
784.5 MHz	

LTE Band 13 (Channel Bandwidth: 10 MHz) _ 16QAM	
782.0 MHz	

LTE Band 17 (Channel Bandwidth: 5 MHz) _ QPSK	
706.5 MHz	
710.0 MHz	
713.5 MHz	

LTE Band 17 (Channel Bandwidth: 10 MHz) _ QPSK	
709.0 MHz	
710.0 MHz	
711.0 MHz	

LTE Band 17 (Channel Bandwidth: 5 MHz) _ 16QAM	
706.5 MHz	
710.0 MHz	
713.5 MHz	

LTE Band 17 (Channel Bandwidth: 10 MHz) _ 16QAM	
709.0 MHz	
710.0 MHz	
711.0 MHz	

6 Peak to Average Ratio Test

6.1. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

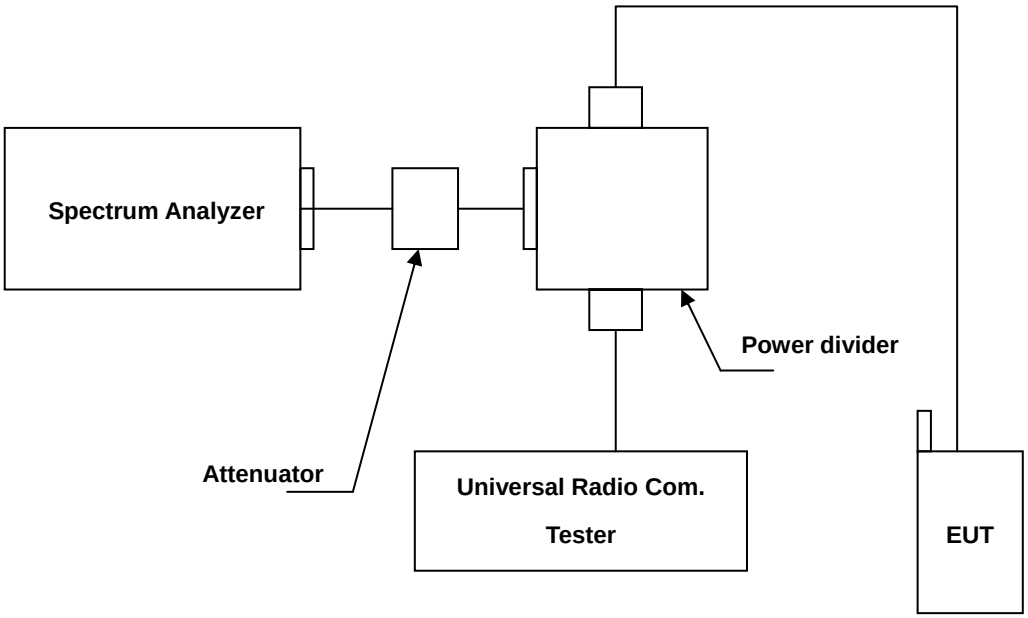
6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules:

a. Set resolution/measurement bandwidth signal's occupied bandwidth;

b. Set the number of counts to a value that stabilizes the measured CCDF curve;

c. Record the maximum PAPR level associated with a probability of 0.1%.

6.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

6.6. Test Result

Model Number	LE910-NA V2		
Test Item	Peak to Average Ratio		
Date of Test	06/12/2015	Test Site	TE05

LTE Band 2				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	1880.0	4.70	< 13
	3 MHz	1880.0	4.46	< 13
	5 MHz	1880.0	3.93	< 13
	10 MHz	1880.0	3.70	< 13
	15 MHz	1880.0	3.47	< 13
	20 MHz	1880.0	3.53	< 13
16QAM	1.4 MHz	1880.0	5.52	< 13
	3 MHz	1880.0	5.21	< 13
	5 MHz	1880.0	4.60	< 13
	10 MHz	1880.0	4.56	< 13
	15 MHz	1880.0	4.29	< 13
	20 MHz	1880.0	4.14	< 13

LTE Band 4				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	1732.5	5.40	< 13
	3 MHz	1732.5	5.22	< 13
	5 MHz	1732.5	5.18	< 13
	10 MHz	1732.5	5.25	< 13
	15 MHz	1732.5	5.24	< 13
	20 MHz	1732.5	5.22	< 13
16QAM	1.4 MHz	1732.5	6.18	< 13
	3 MHz	1732.5	5.95	< 13
	5 MHz	1732.5	5.80	< 13
	10 MHz	1732.5	6.05	< 13
	15 MHz	1732.5	6.14	< 13
	20 MHz	1732.5	5.77	< 13

LTE Band 5				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	836.5	6.12	< 13
	3 MHz	836.5	5.67	< 13
	5 MHz	836.5	5.56	< 13
	10 MHz	836.5	5.84	< 13
16QAM	1.4 MHz	836.5	6.71	< 13
	3 MHz	836.5	6.29	< 13
	5 MHz	836.5	6.18	< 13
	10 MHz	836.5	6.53	< 13

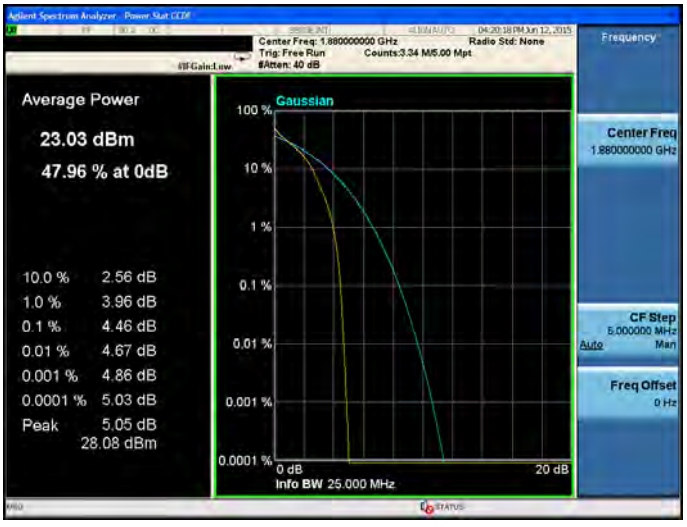
LTE Band 12				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	1.4 MHz	707.5	5.83	< 13
	3 MHz	707.5	5.52	< 13
	5 MHz	707.5	5.57	< 13
	10 MHz	707.5	5.80	< 13
16QAM	1.4 MHz	707.5	6.67	< 13
	3 MHz	707.5	6.25	< 13
	5 MHz	707.5	6.11	< 13
	10 MHz	707.5	6.61	< 13

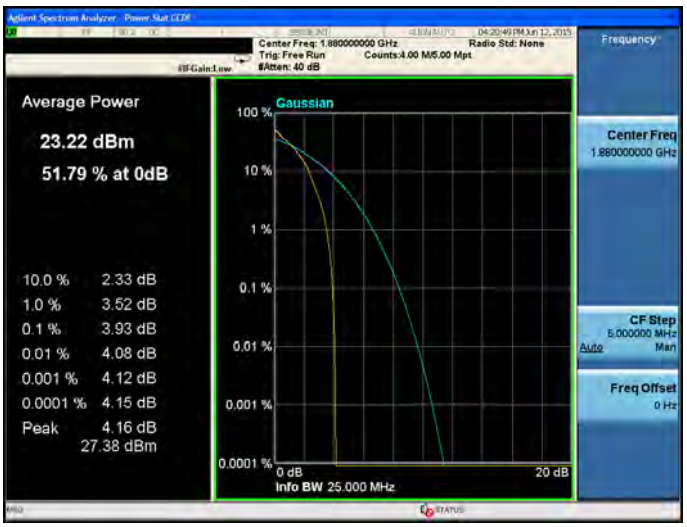
LTE Band 13				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	5 MHz	782.0	5.40	< 13
	10 MHz	782.0	5.46	< 13
16QAM	5 MHz	782.0	5.94	< 13
	10 MHz	782.0	6.29	< 13

LTE Band 17				
Modulation	Channel Bandwidth	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
QPSK	5 MHz	710.0	5.43	< 13
	10 MHz	710.0	5.71	< 13
16QAM	5 MHz	710.0	6.03	< 13
	10 MHz	710.0	6.41	< 13

6.7. Test Graphs

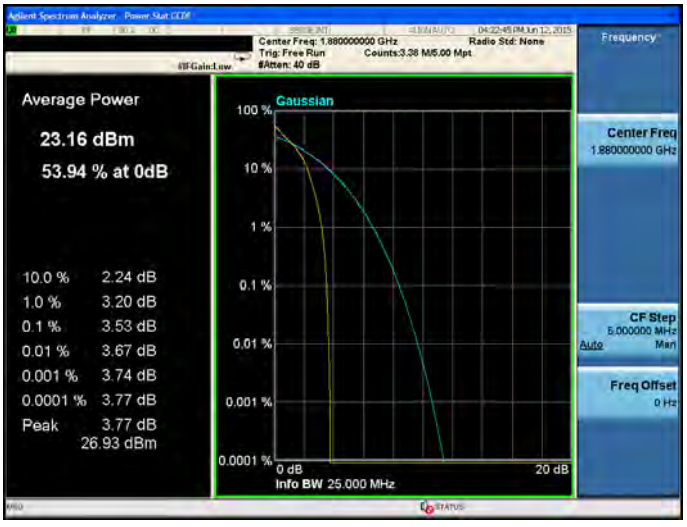
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK	
1880.0 MHz	

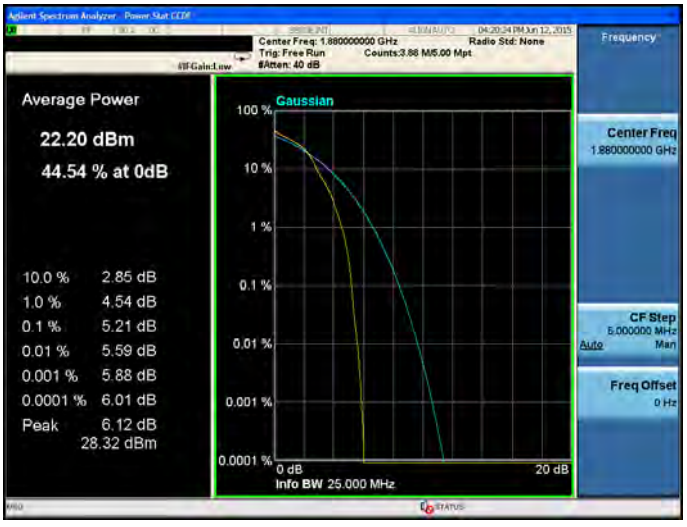
LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 20 MHz) _ QPSK	
1880.0 MHz	

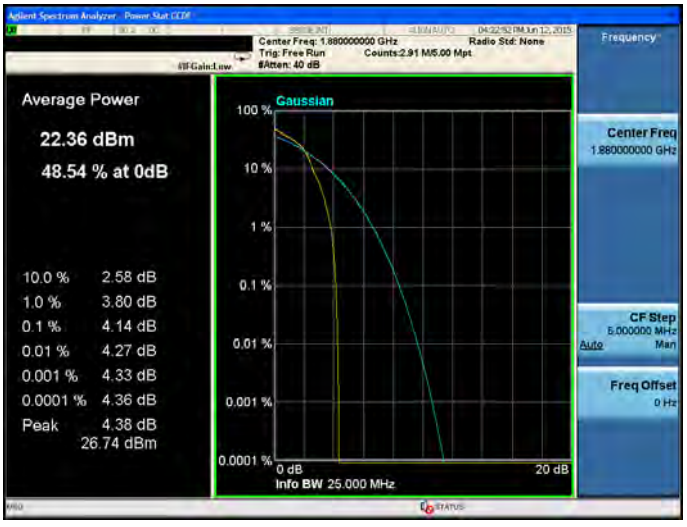
LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1880.0 MHz	

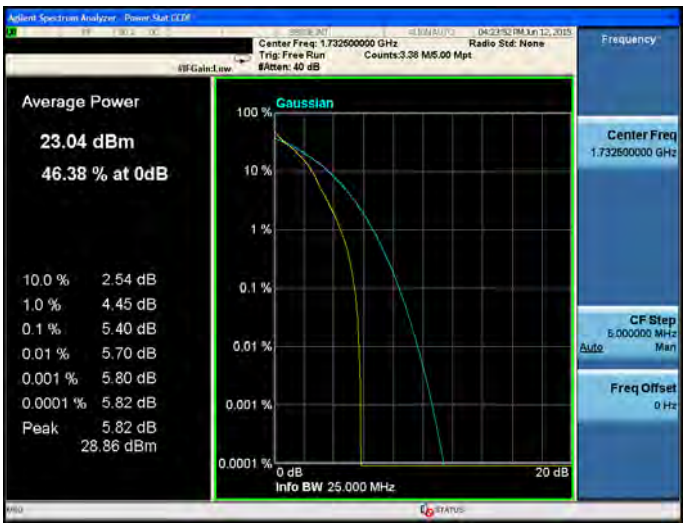
LTE Band 2 (Channel Bandwidth: 3 MHz) _ 16QAM	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 5 MHz) _ 16QAM	
1880.0 MHz	

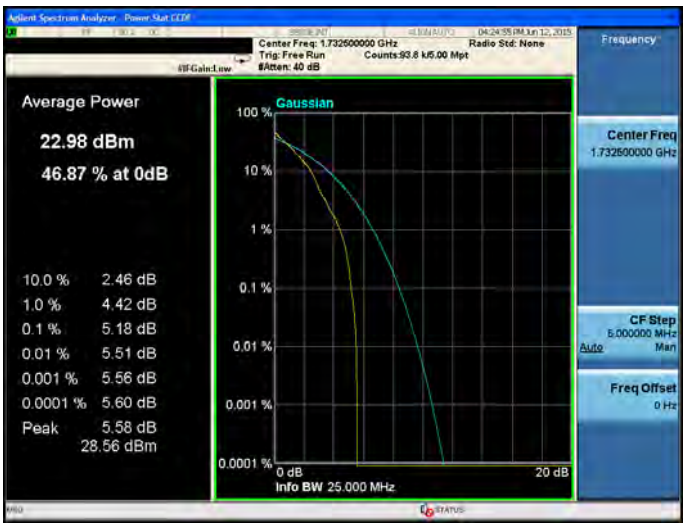
LTE Band 2 (Channel Bandwidth: 10 MHz) _ 16QAM	
1880.0 MHz	

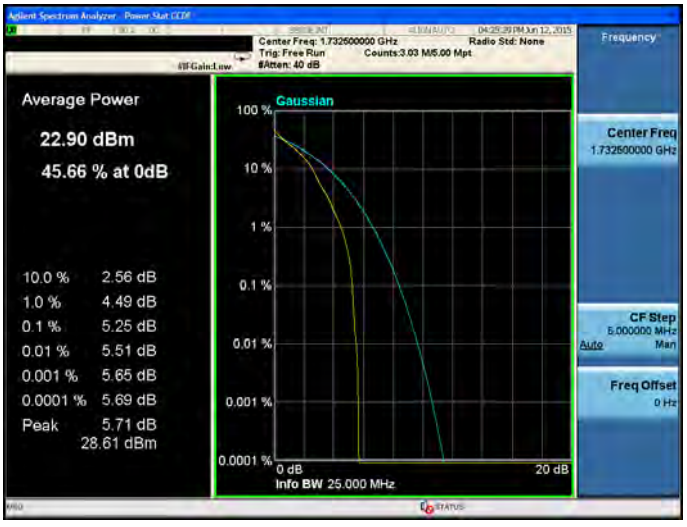
LTE Band 2 (Channel Bandwidth: 15 MHz) _ 16QAM	
1880.0 MHz	

LTE Band 2 (Channel Bandwidth: 20 MHz) _ 16QAM	
1880.0 MHz	

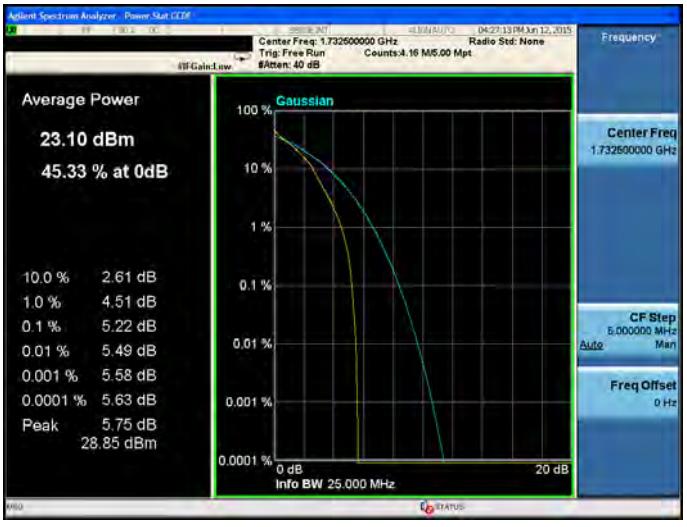
LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 3 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 5 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 10 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 15 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 20 MHz) _ QPSK	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 3 MHz) _ 16QAM	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 5 MHz) _ 16QAM	
1732.5 MHz	

LTE Band 4 (Channel Bandwidth: 10 MHz) _ 16QAM	
1732.5 MHz	

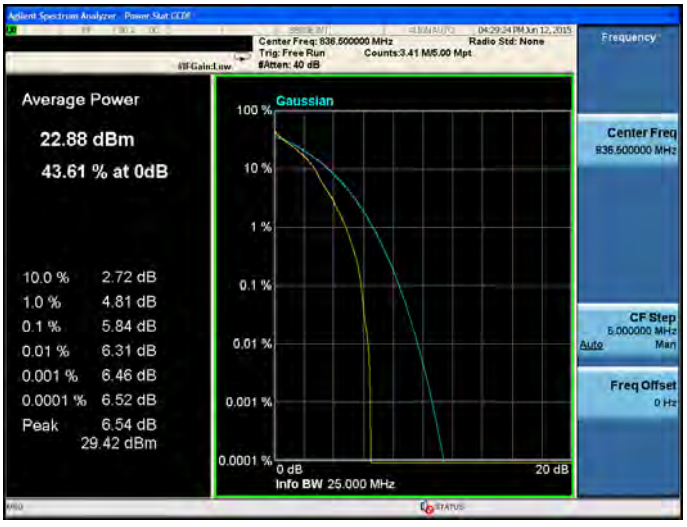
LTE Band 4 (Channel Bandwidth: 15 MHz) _ 16QAM	
1732.5 MHz	

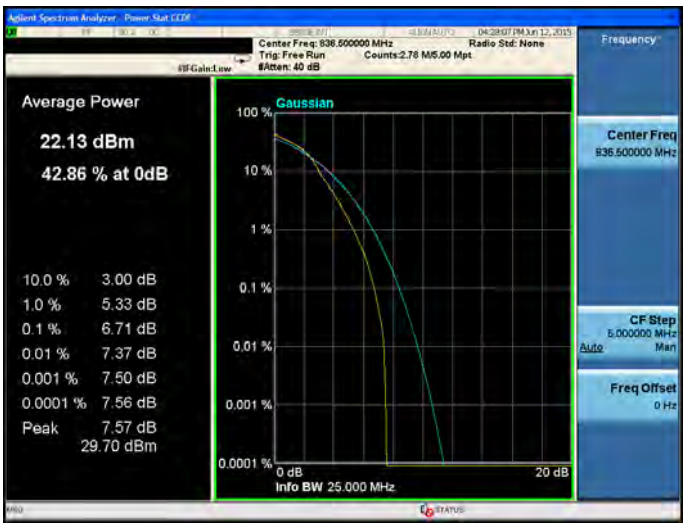
LTE Band 4 (Channel Bandwidth: 20 MHz) _ 16QAM	
1732.5 MHz	

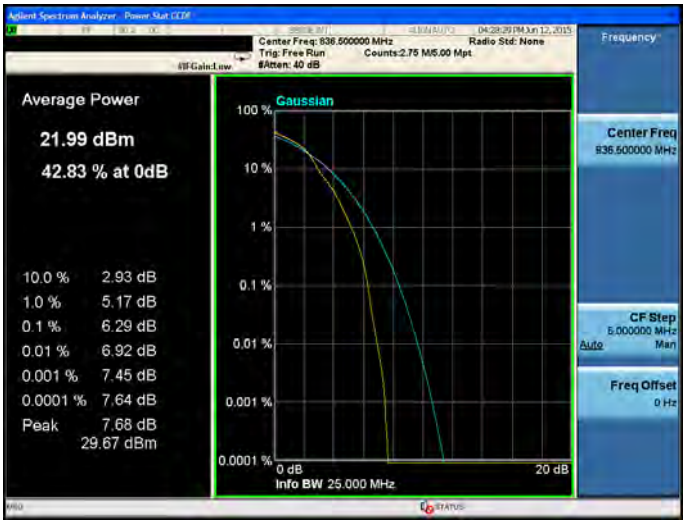
LTE Band 5 (Channel Bandwidth: 1.4 MHz) _ QPSK	
836.5 MHz	

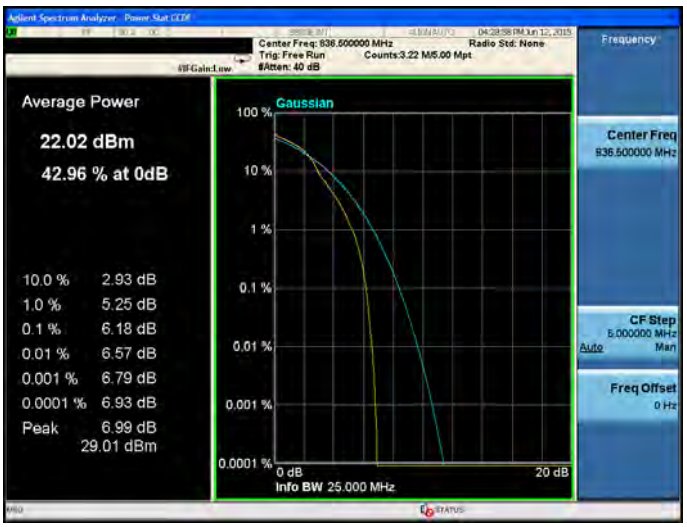
LTE Band 5 (Channel Bandwidth: 3 MHz) _ QPSK	
836.5 MHz	

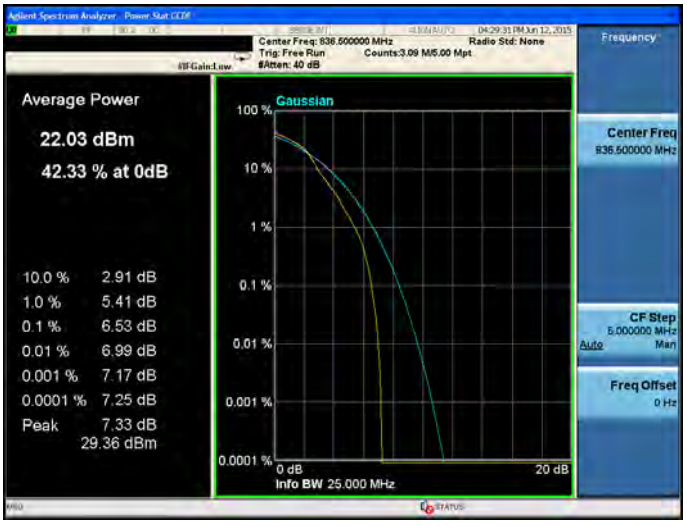
LTE Band 5 (Channel Bandwidth: 5 MHz) _ QPSK	
836.5 MHz	

LTE Band 5 (Channel Bandwidth: 10 MHz) _ QPSK	
836.5 MHz	

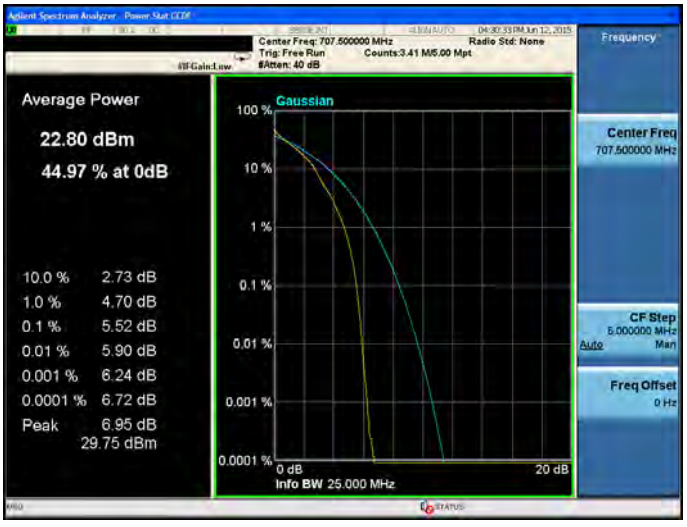
LTE Band 5 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
836.5 MHz	

LTE Band 5 (Channel Bandwidth: 3 MHz) _ 16QAM	
836.5 MHz	

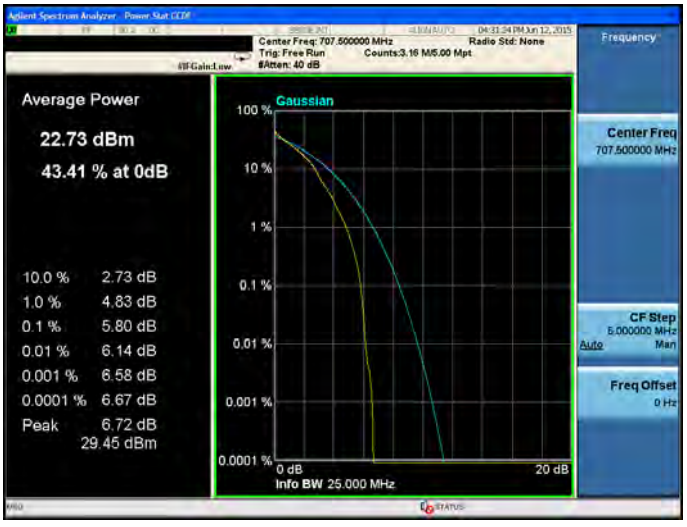
LTE Band 5 (Channel Bandwidth: 5 MHz) _ 16QAM	
836.5 MHz	

LTE Band 5 (Channel Bandwidth: 10 MHz) _ 16QAM	
836.5 MHz	

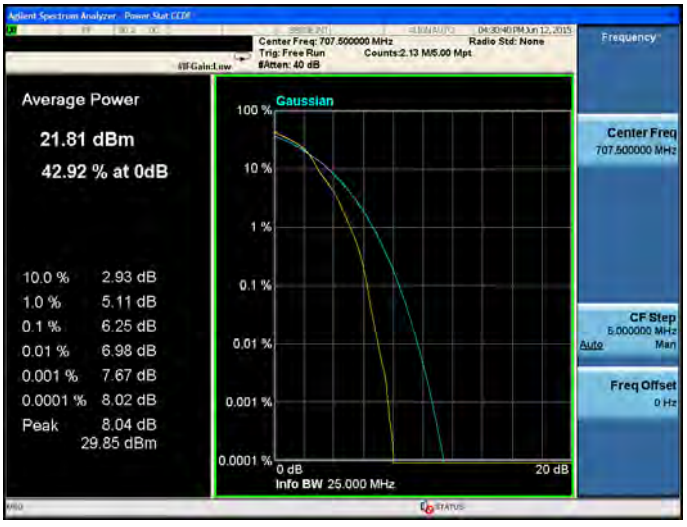
LTE Band 12 (Channel Bandwidth: 1.4 MHz) _ QPSK	
707.5 MHz	

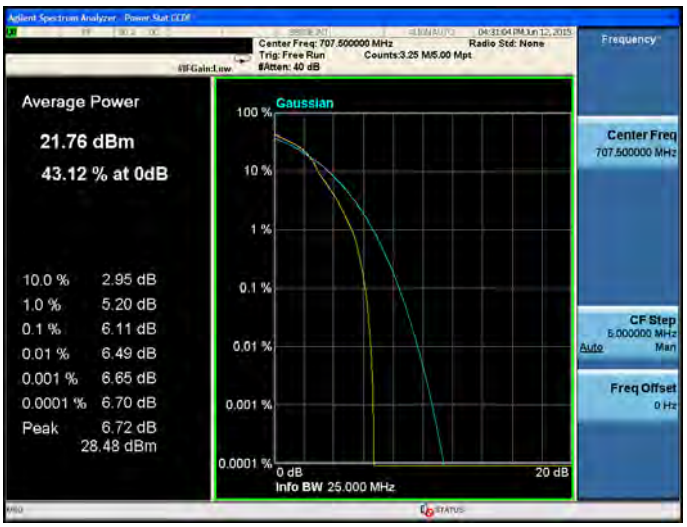
LTE Band 12 (Channel Bandwidth: 3 MHz) _ QPSK	
707.5 MHz	

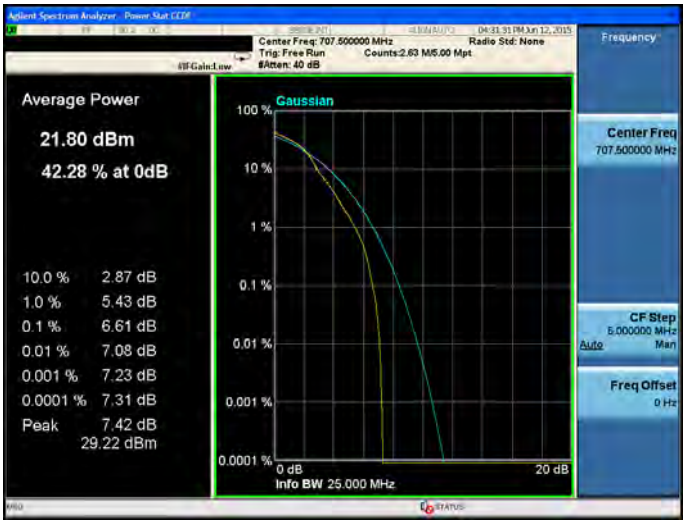
LTE Band 12 (Channel Bandwidth: 5 MHz) _ QPSK	
707.5 MHz	

LTE Band 12 (Channel Bandwidth: 10 MHz) _ QPSK	
707.5 MHz	

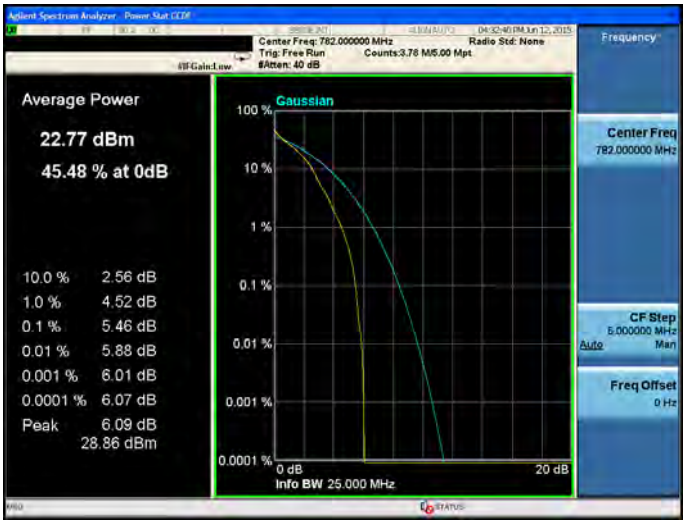
LTE Band 12 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
707.5 MHz	

LTE Band 12 (Channel Bandwidth: 3 MHz) _ 16QAM	
707.5 MHz	

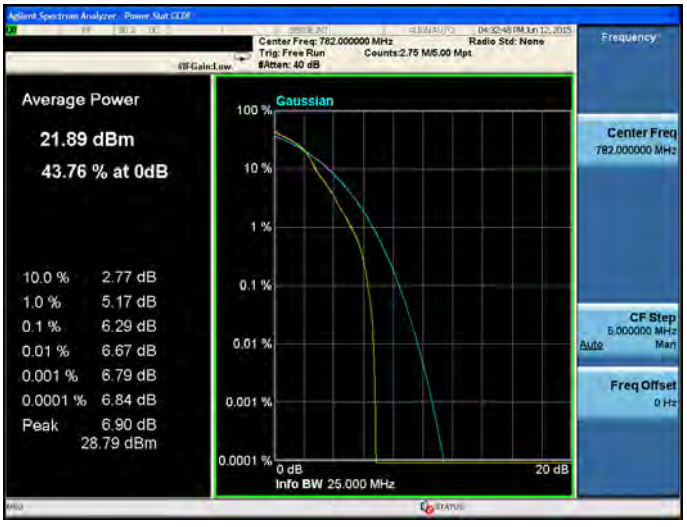
LTE Band 12 (Channel Bandwidth: 5 MHz) _ 16QAM	
707.5 MHz	

LTE Band 12 (Channel Bandwidth: 10 MHz) _ 16QAM	
707.5 MHz	

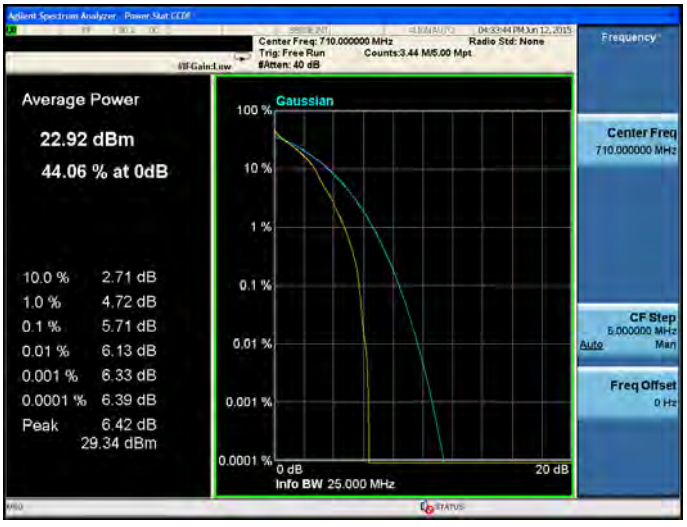
LTE Band 13 (Channel Bandwidth: 5 MHz) _ QPSK	
782.0 MHz	

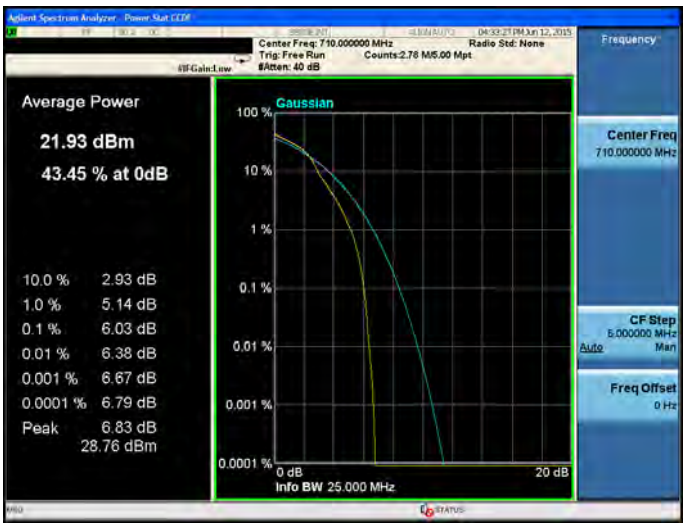
LTE Band 13 (Channel Bandwidth: 10 MHz) _ QPSK	
782.0 MHz	

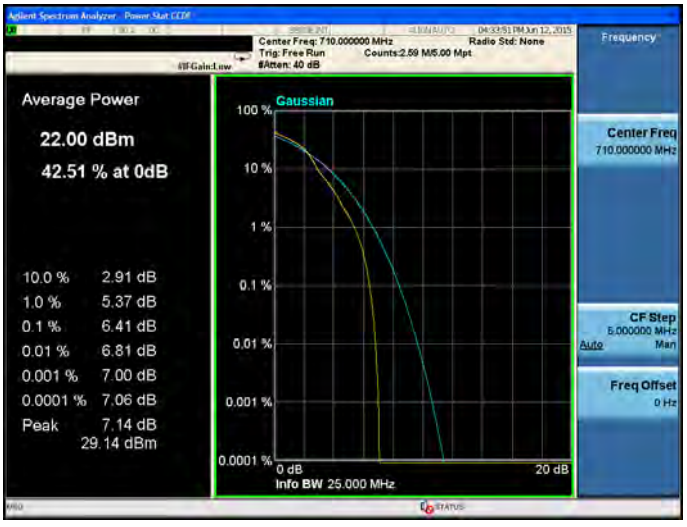
LTE Band 13 (Channel Bandwidth: 5 MHz) _ 16QAM	
782.0 MHz	

LTE Band 13 (Channel Bandwidth: 10 MHz) _ 16QAM	
782.0 MHz	

LTE Band 17 (Channel Bandwidth: 5 MHz) _ QPSK	
711.0 MHz	

LTE Band 17 (Channel Bandwidth: 10 MHz) _ QPSK	
711.0 MHz	

LTE Band 17 (Channel Bandwidth: 5 MHz) _ 16QAM	
711.0 MHz	

LTE Band 17 (Channel Bandwidth: 10 MHz) _ 16QAM	
711.0 MHz	

7 Band Edge Test

7.1. Limit

The Band Edge Limit:

§22.917(a), §24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

§27.53(c)(2)

On any frequency outside the 777-787 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

§27.53(c)(4)

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

§27.53(g)

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

LTE Band 13_BW=5M				
Frequency (MHz)	RBW=10kHz Measurement (dBm)	RBW=6.25kHz Measurement (dBm)	Limit -35dBm/6.25kHz	Result
763 ~ 775	-51.728	-53.769	-35	PASS
793 ~ 805	-62.278	-64.319	-35	PASS

LTE Band 13_BW=10M				
Frequency (MHz)	RBW=10kHz Measurement (dBm)	RBW=6.25kHz Measurement (dBm)	Limit -35dBm/6.25kHz	Result
763 ~775	-48.597	-50.638	-35	PASS
793 ~805	-51.799	-53.840	-35	PASS

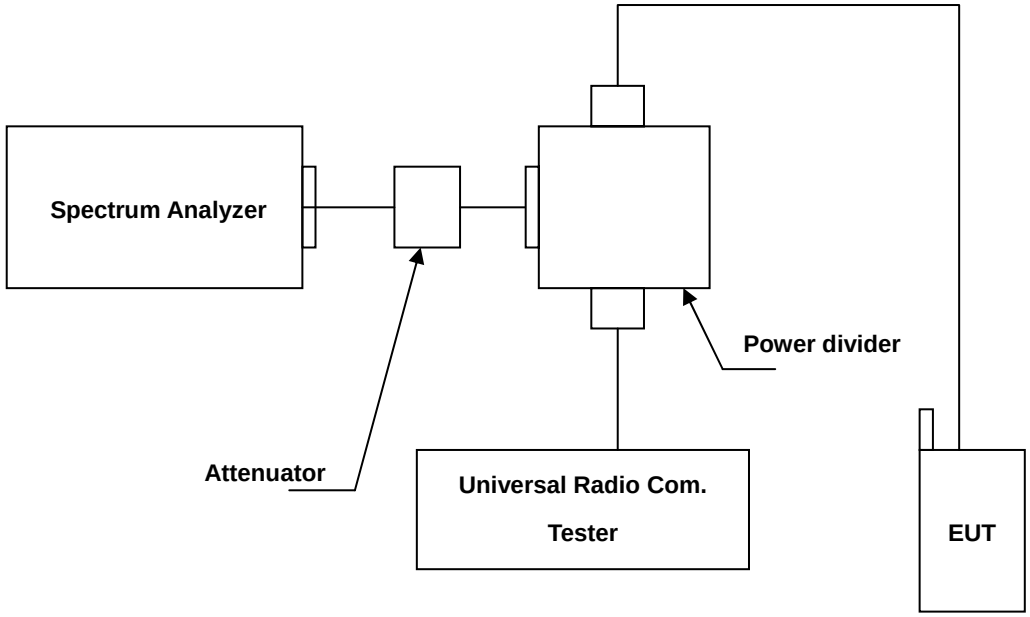
7.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/05/2014	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

7.3. Setup



7.4. Test Procedure

The measurement is made according to FCC rules:

a. The EUT was set up for the maximum peak power with LTE/WCDMA link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)

b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss in the transmitted path track.

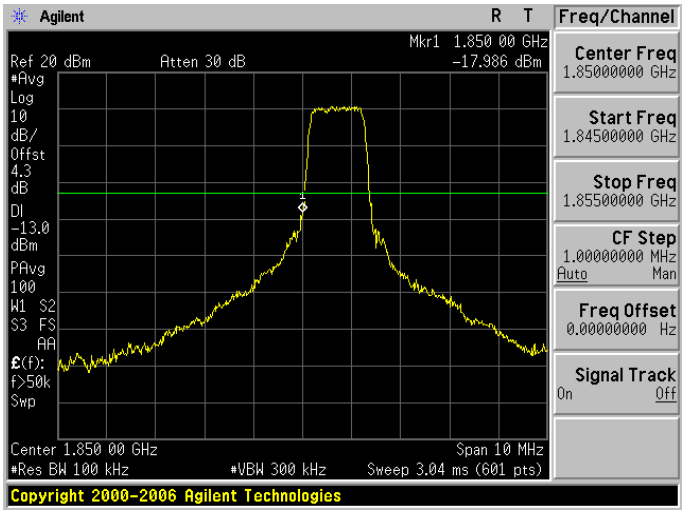
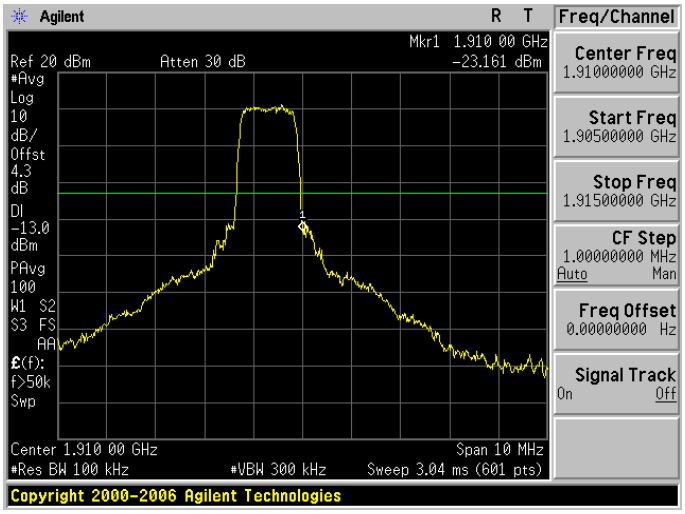
c. The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.

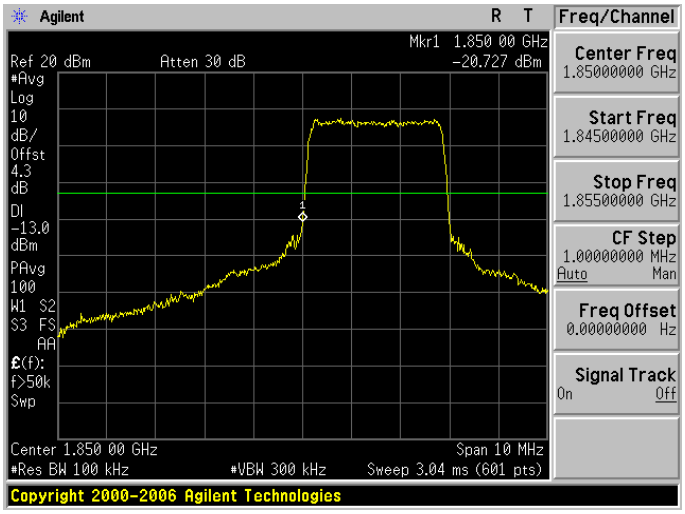
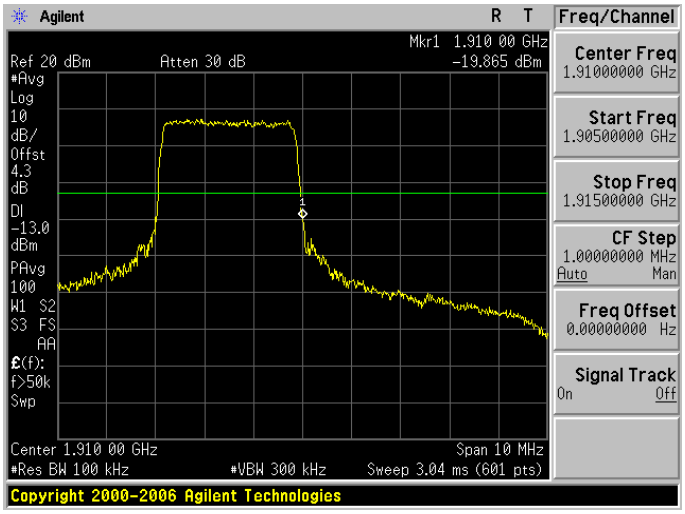
d. Record the max trace plot into the test report.

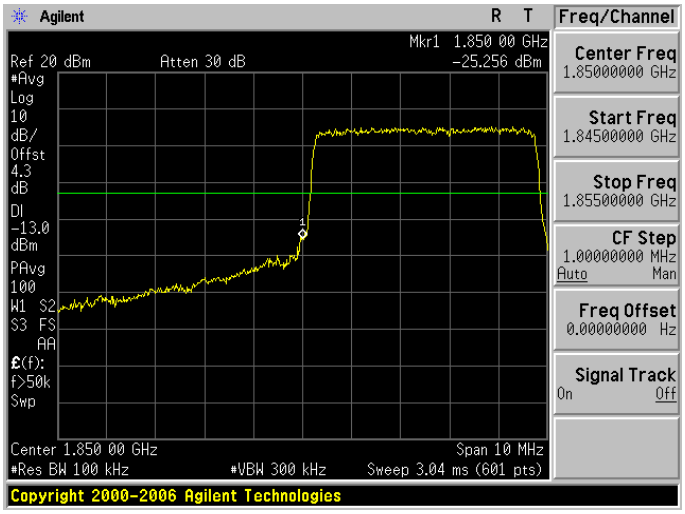
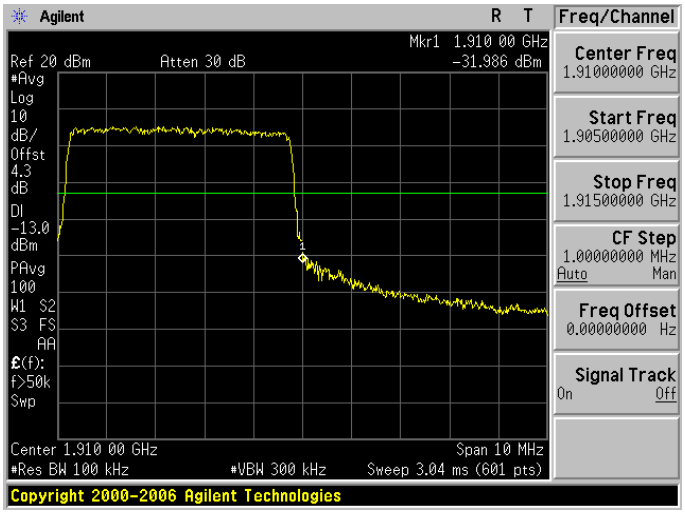
7.5. Uncertainty

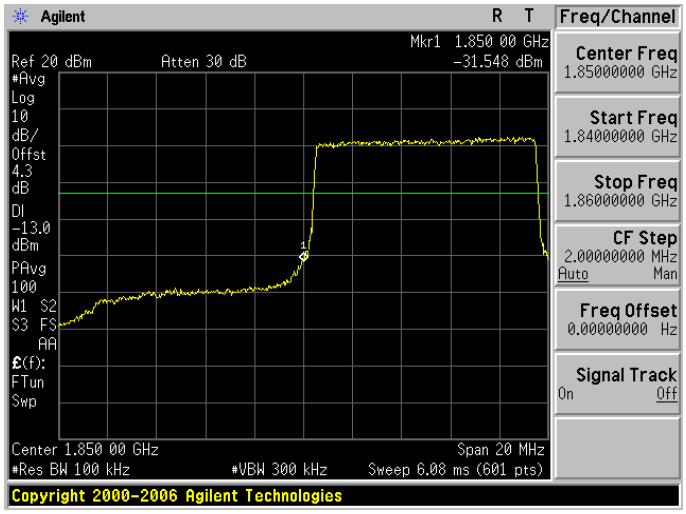
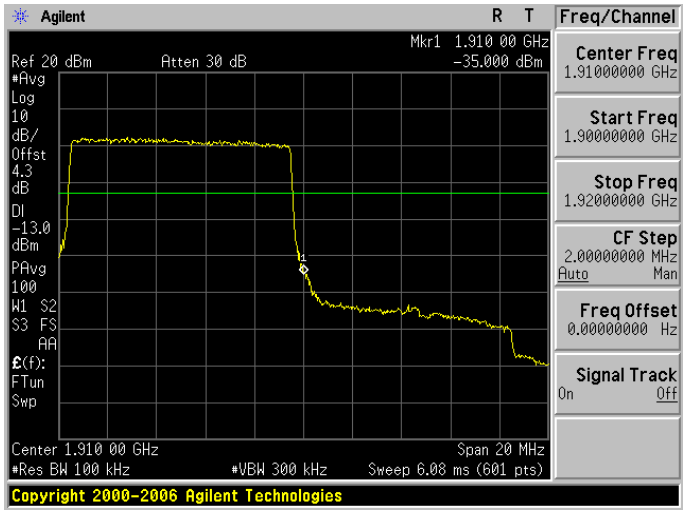
The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

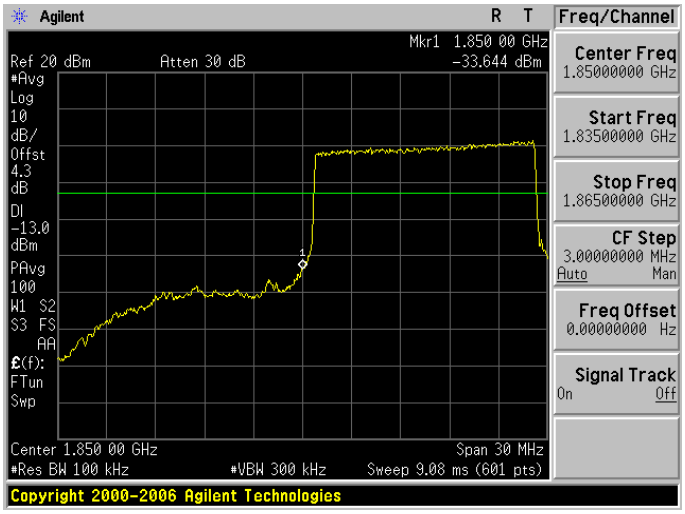
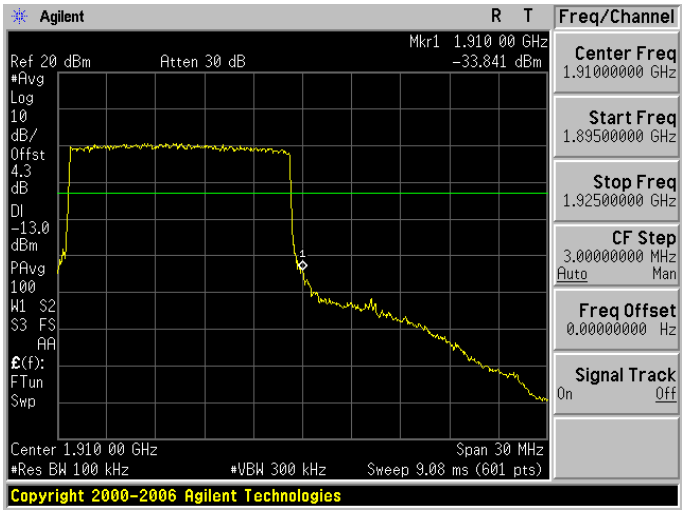
7.6. Test Result

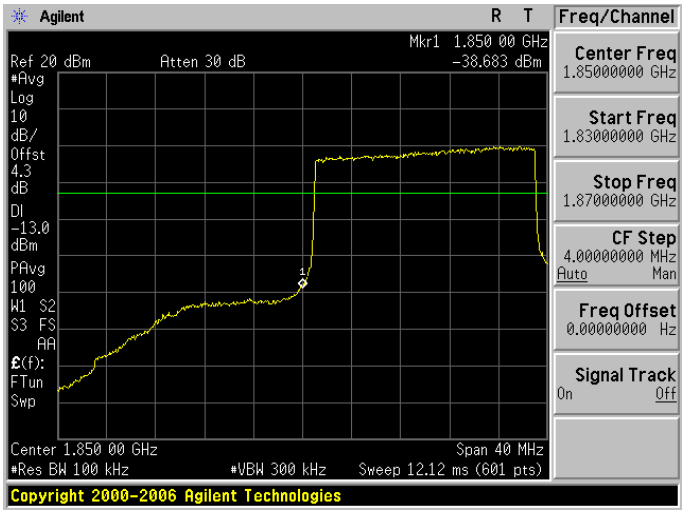
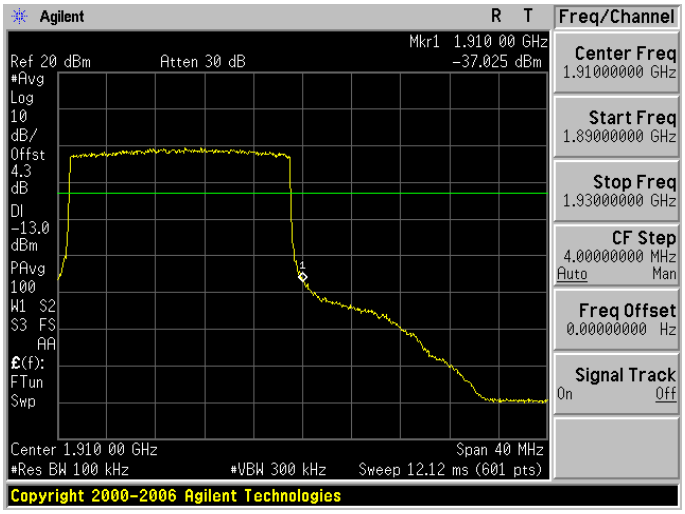
Frequency	LTE Band 2	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge					
Higher Band Edge					

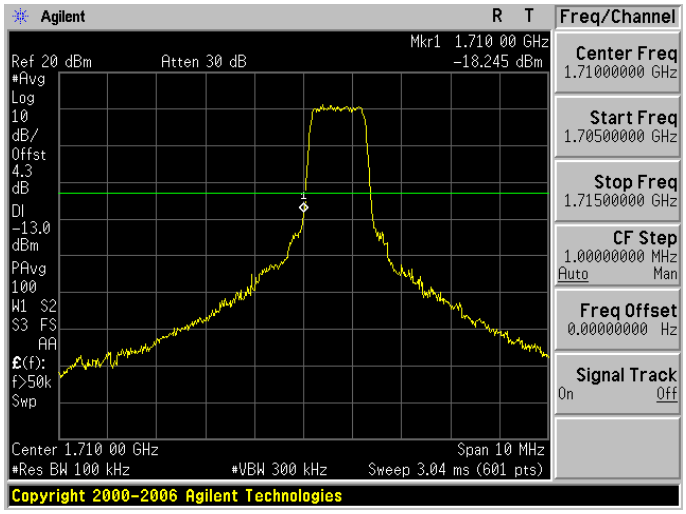
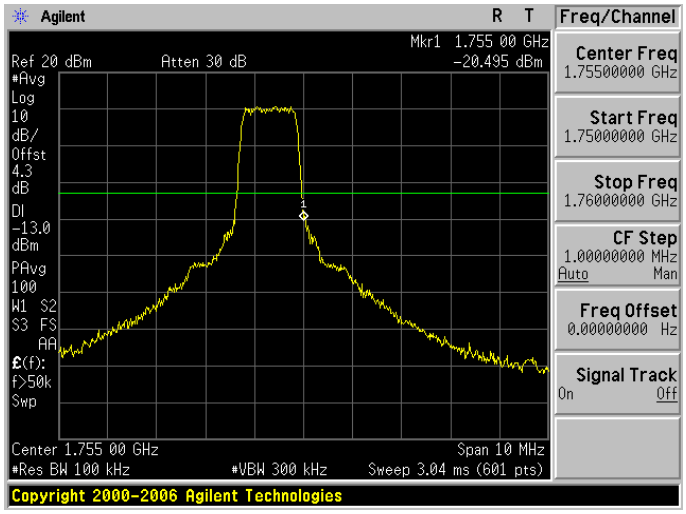
Frequency	LTE Band 2	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge					
Higher Band Edge					

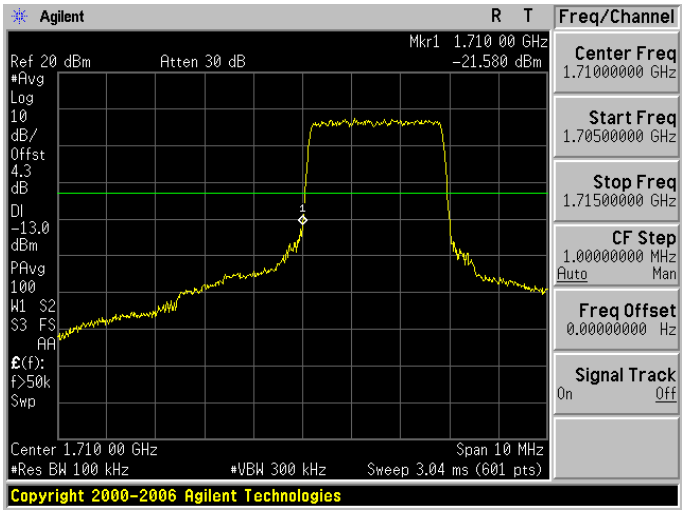
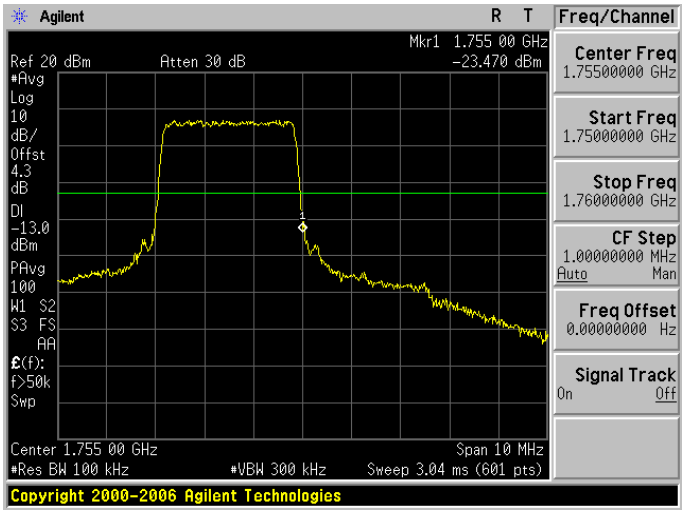
Frequency	LTE Band 2	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge	
Higher Band Edge	

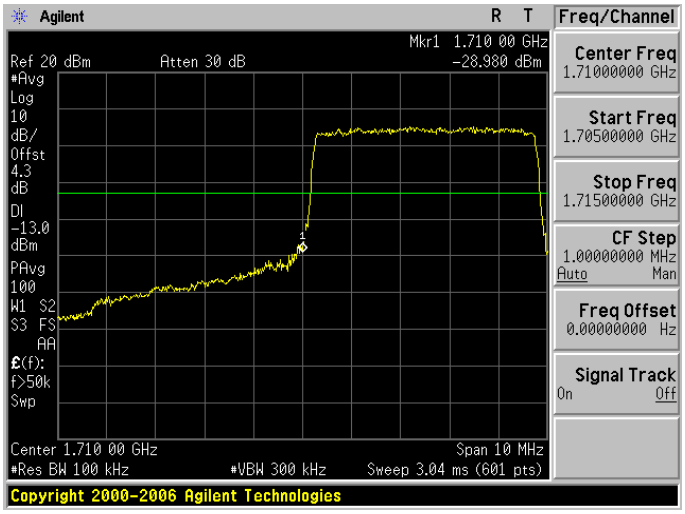
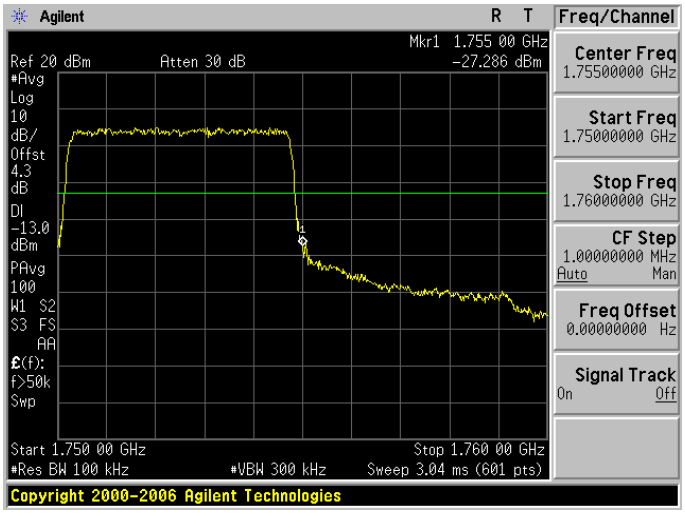
Frequency	LTE Band 2	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge	
Higher Band Edge	

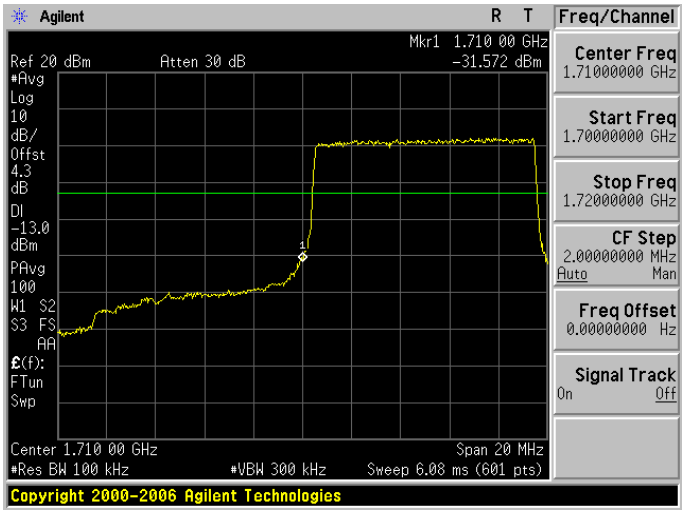
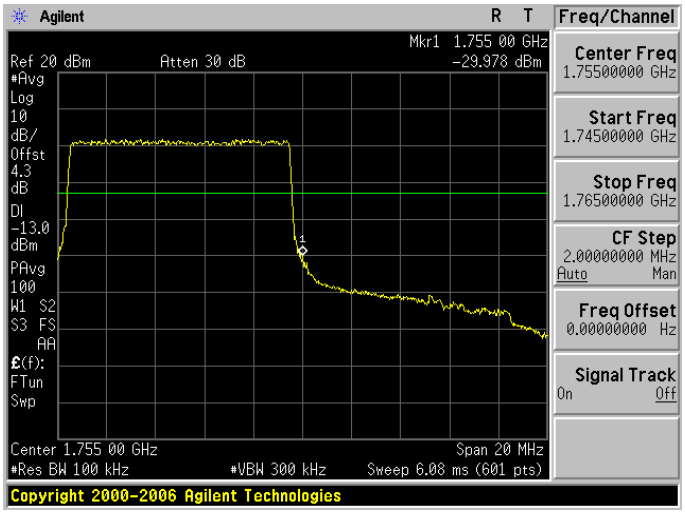
Frequency	LTE Band 2	Channel Bandwidth	15 MHz	RB Allocated	75
Lower Band Edge					
Higher Band Edge					

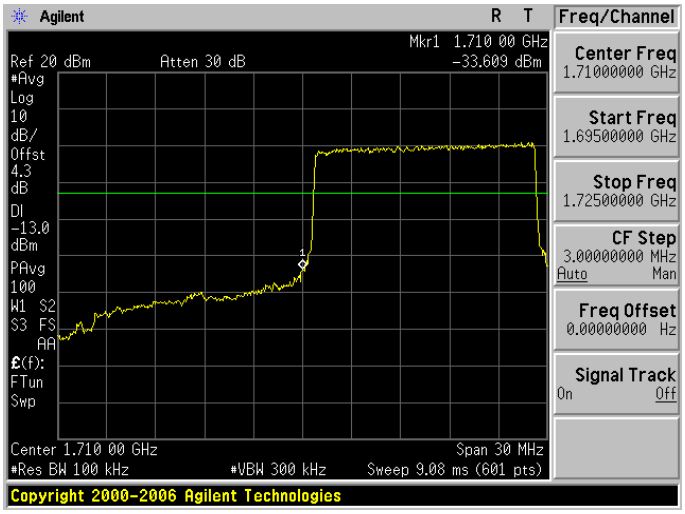
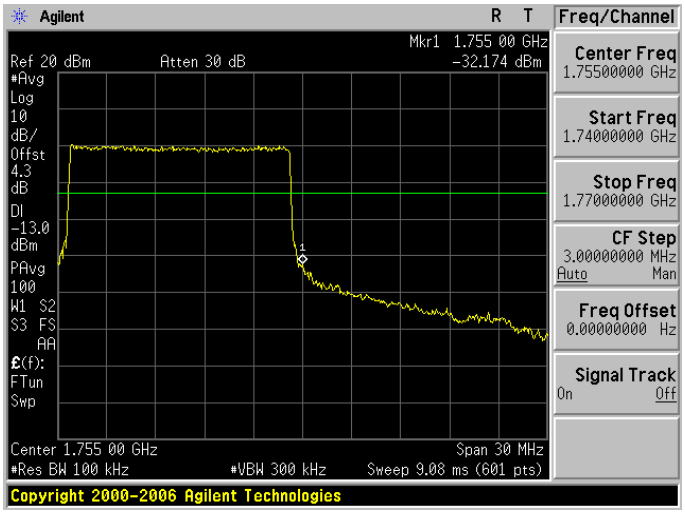
Frequency	LTE Band 2	Channel Bandwidth	20 MHz	RB Allocated	100
Lower Band Edge					
Higher Band Edge					

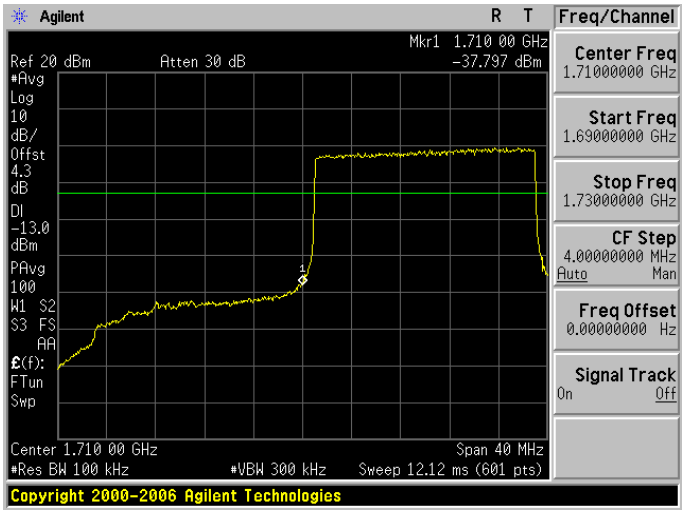
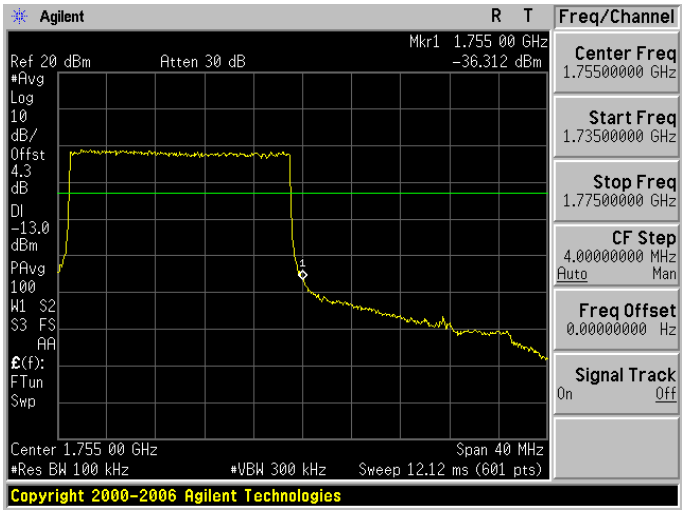
Frequency	LTE Band 4	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge	
Higher Band Edge	

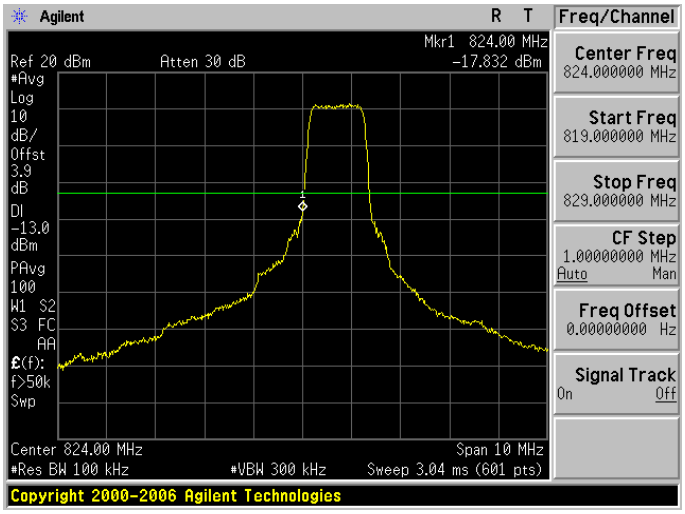
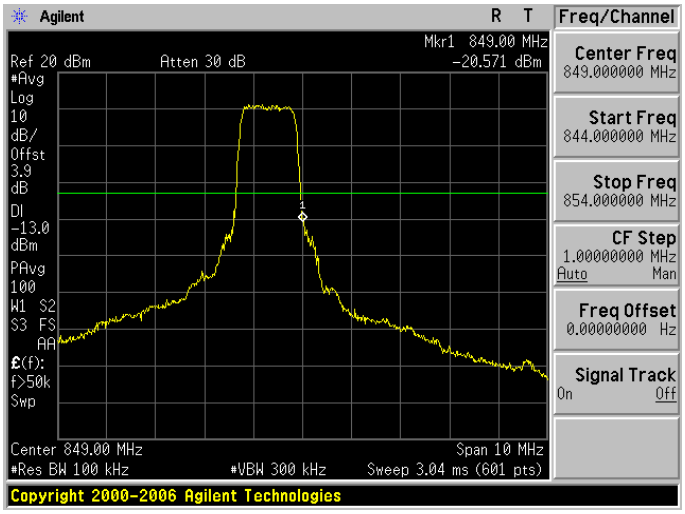
Frequency	LTE Band 4	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge					
Higher Band Edge					

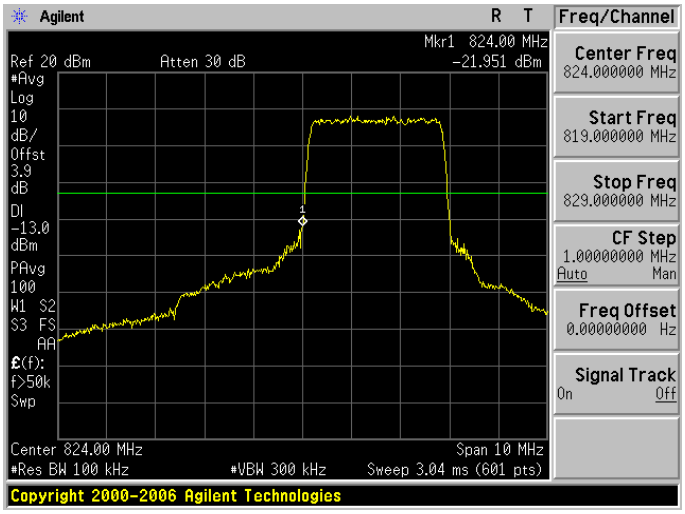
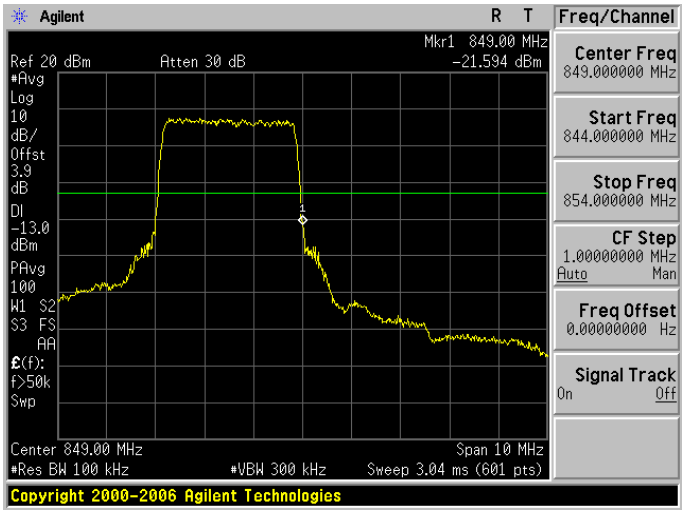
Frequency	LTE Band 4	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge	
Higher Band Edge	

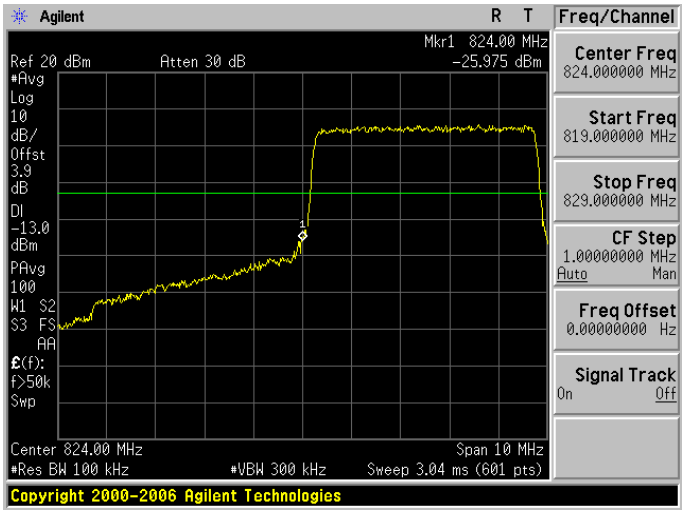
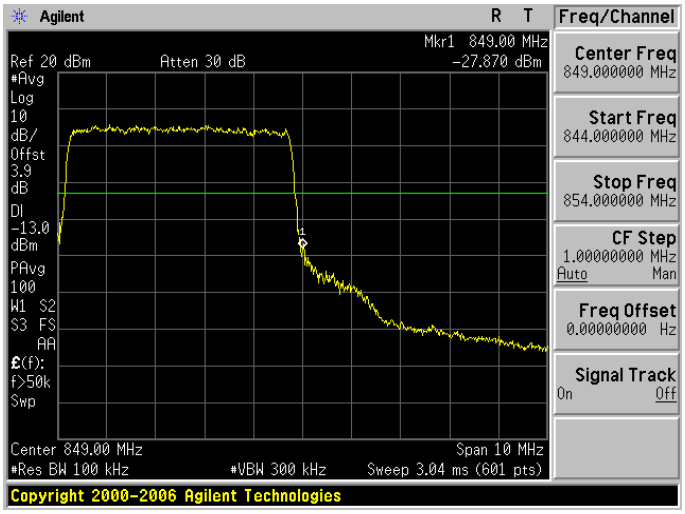
Frequency	LTE Band 4	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge	
Higher Band Edge	

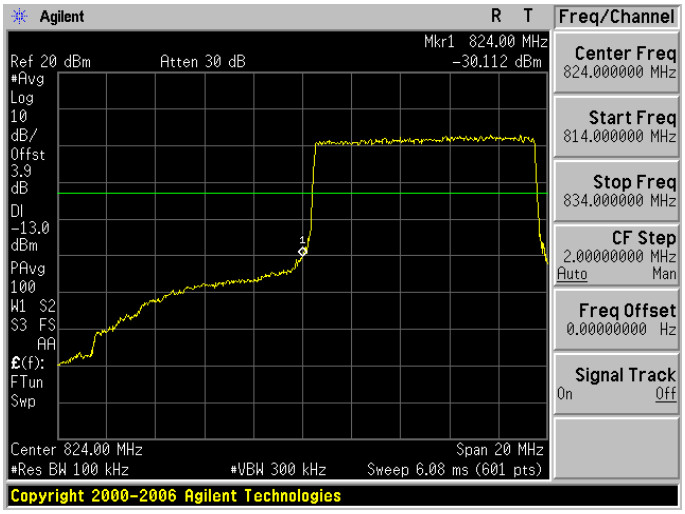
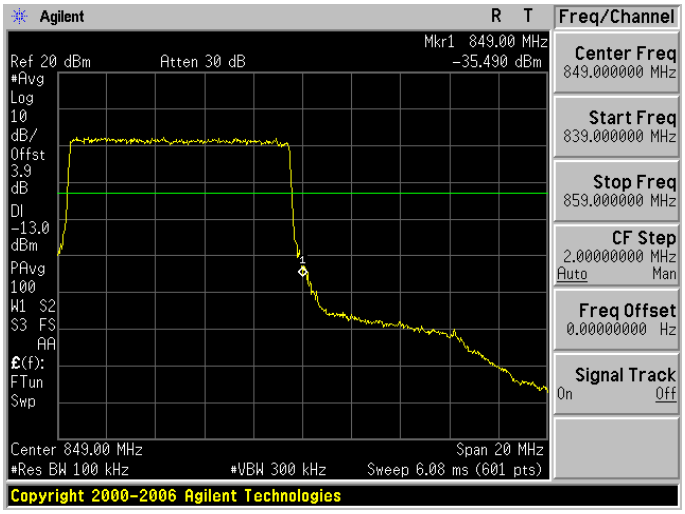
Frequency	LTE Band 4	Channel Bandwidth	15 MHz	RB Allocated	75
Lower Band Edge					
Higher Band Edge					

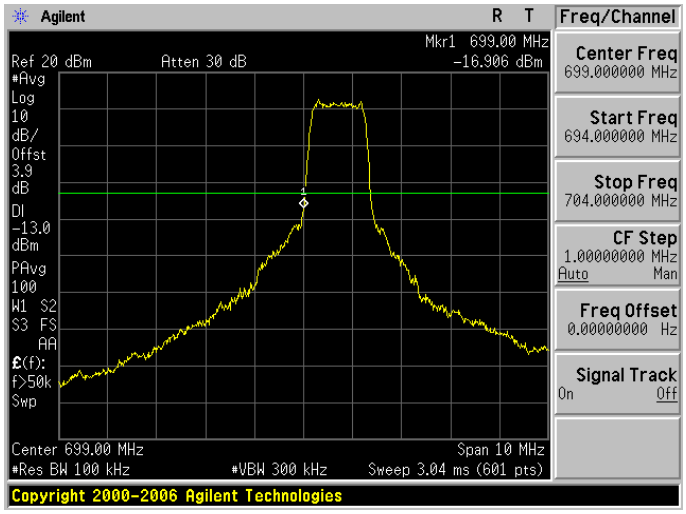
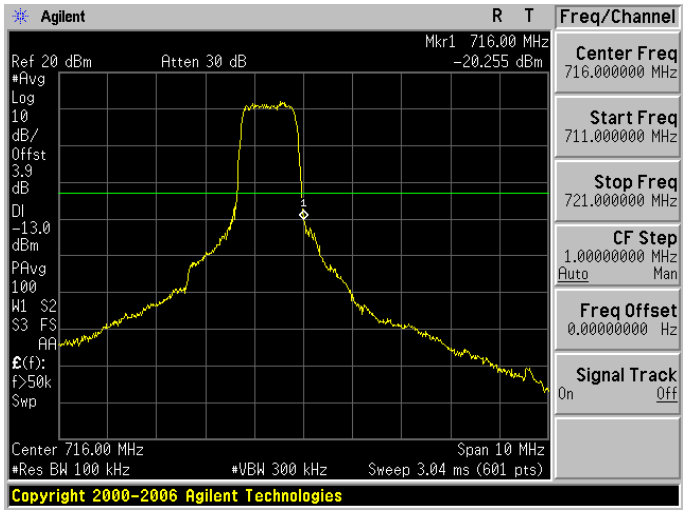
Frequency	LTE Band 4	Channel Bandwidth	20 MHz	RB Allocated	100
Lower Band Edge					
Higher Band Edge					

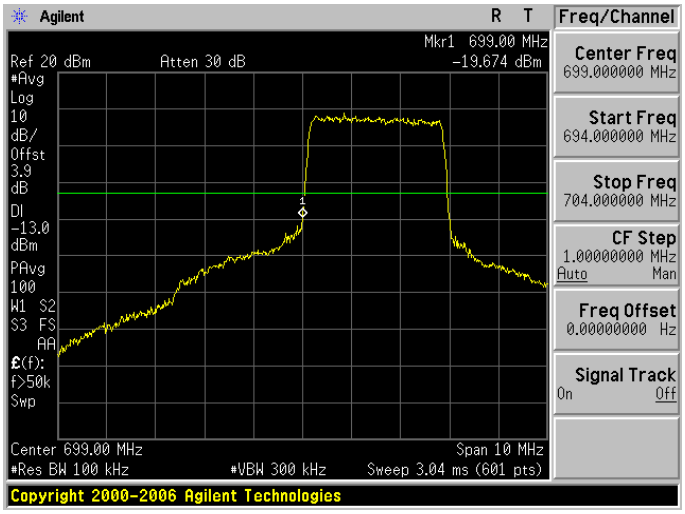
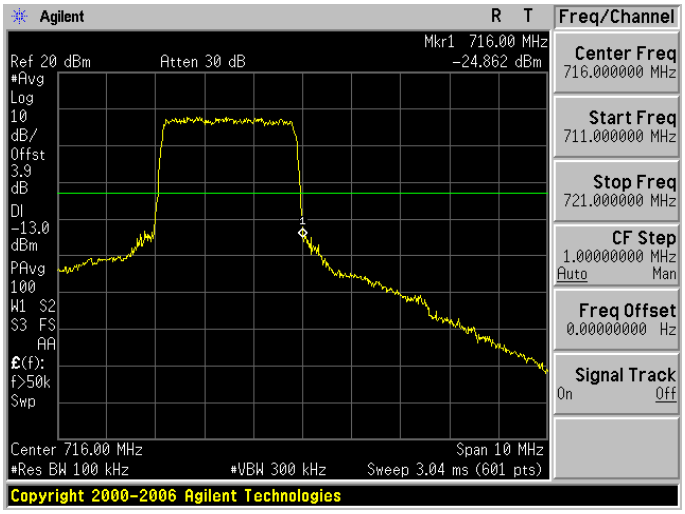
Frequency	LTE Band 5	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge	
Higher Band Edge	

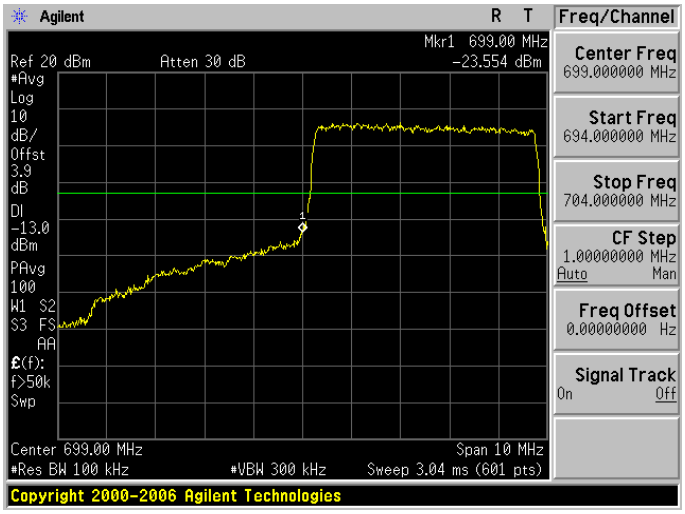
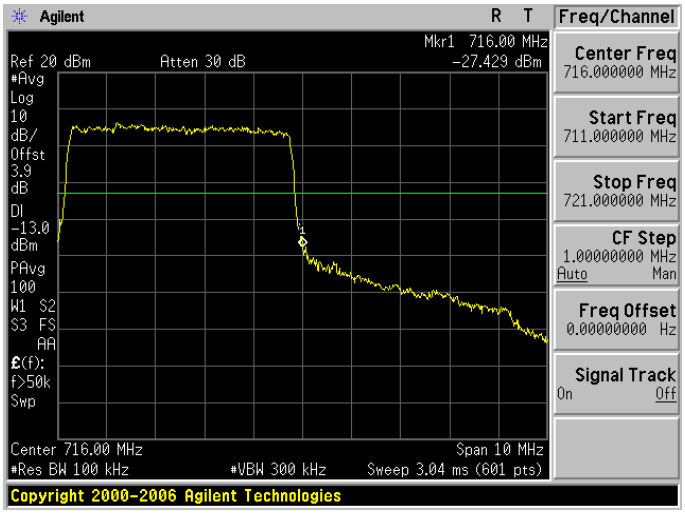
Frequency	LTE Band 5	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge					
Higher Band Edge					

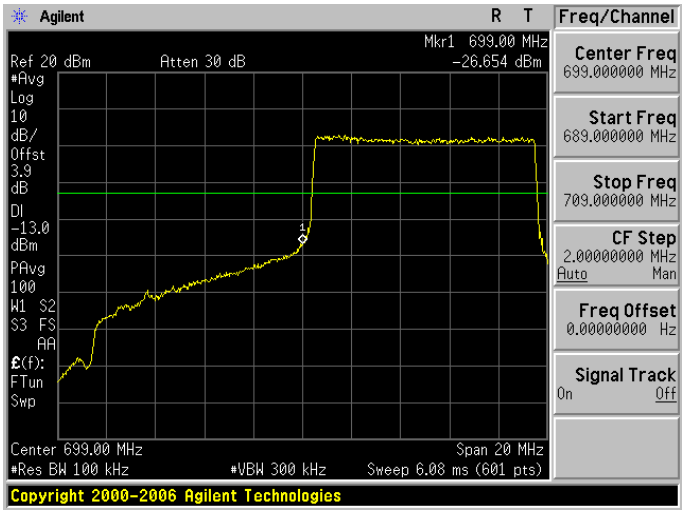
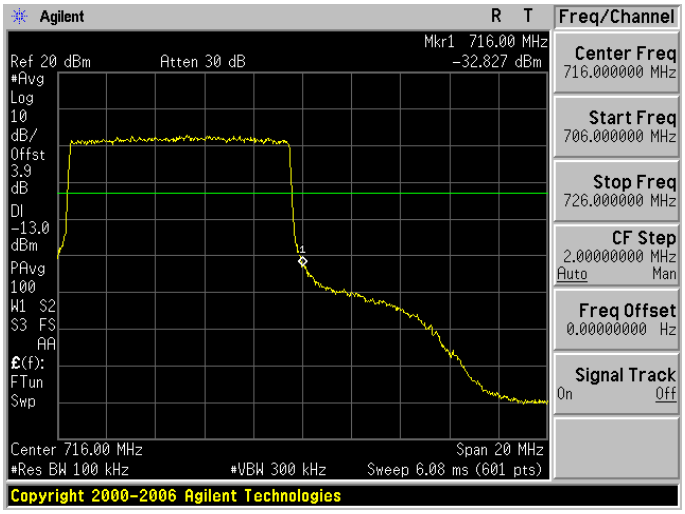
Frequency	LTE Band 5	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge	
Higher Band Edge	

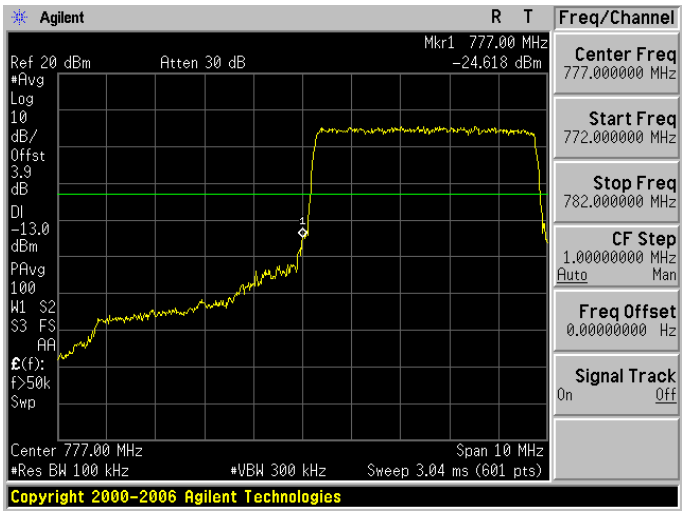
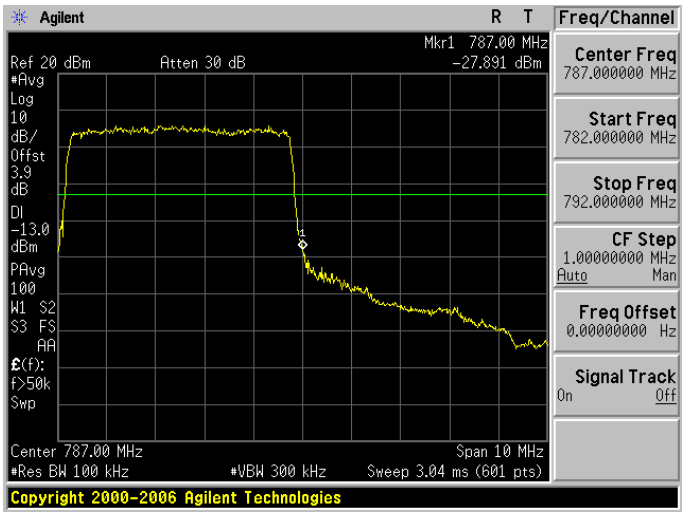
Frequency	LTE Band 5	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge					
Higher Band Edge					

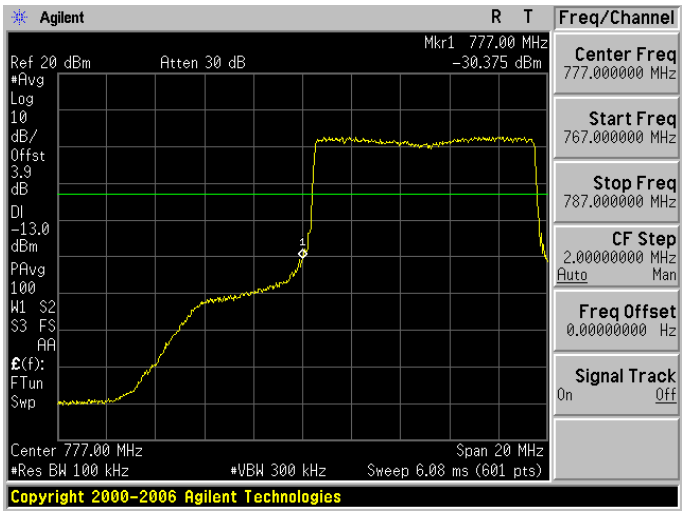
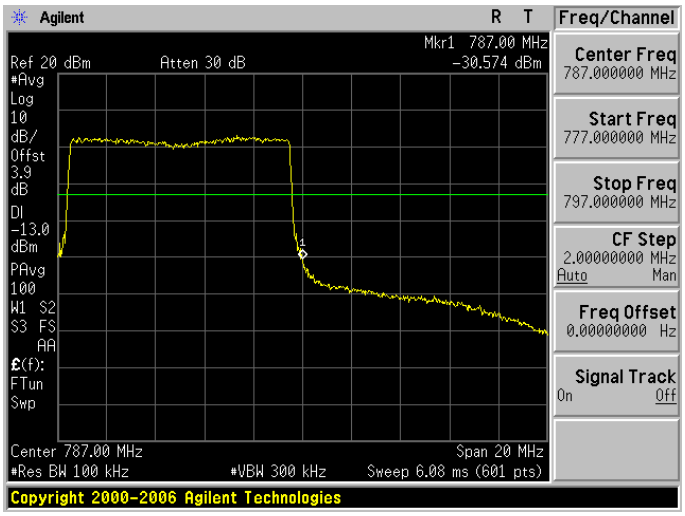
Frequency	LTE Band 12	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge	
Higher Band Edge	

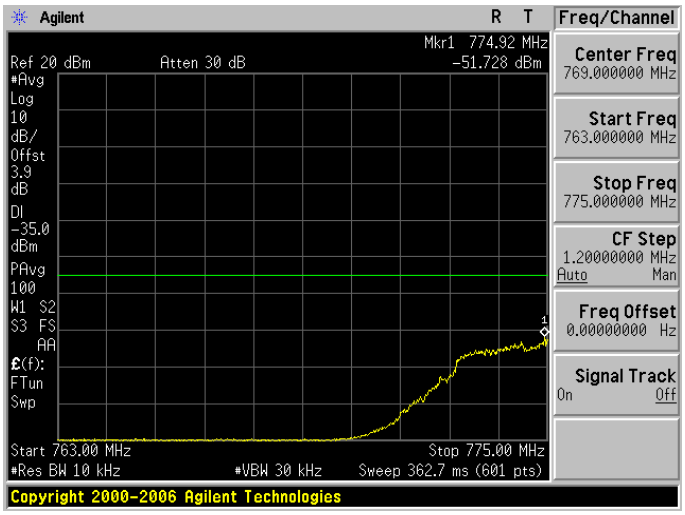
Frequency	LTE Band 12	Channel Bandwidth	3 MHz	RB Allocated	15
Lower Band Edge					
Higher Band Edge					

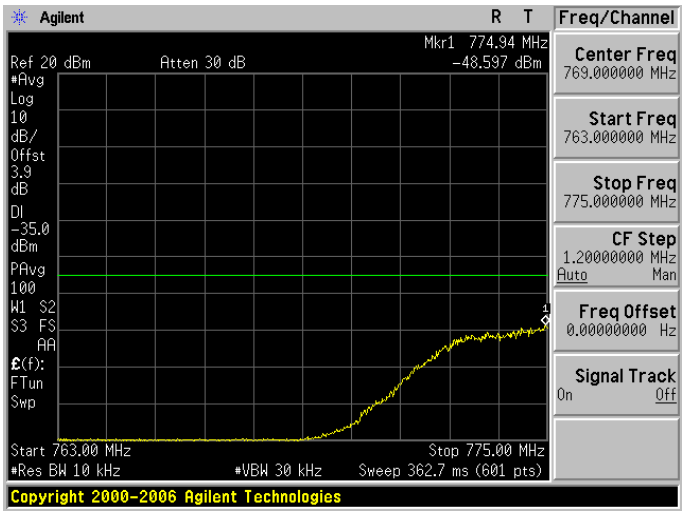
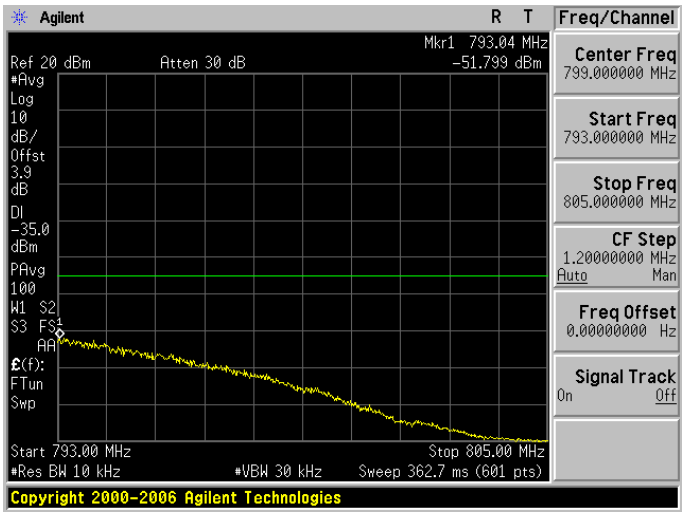
Frequency	LTE Band 12	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge					
Higher Band Edge					

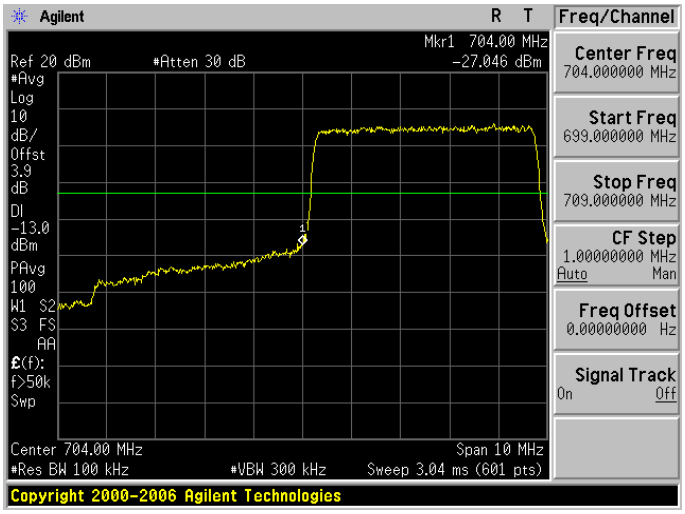
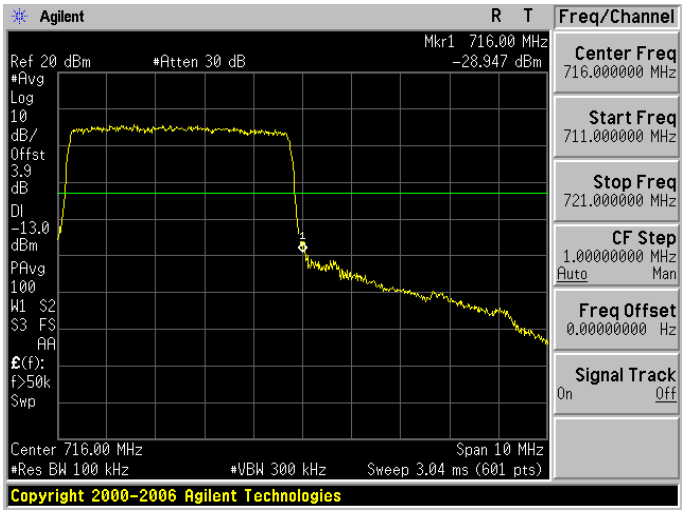
Frequency	LTE Band 12	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge					
Higher Band Edge					

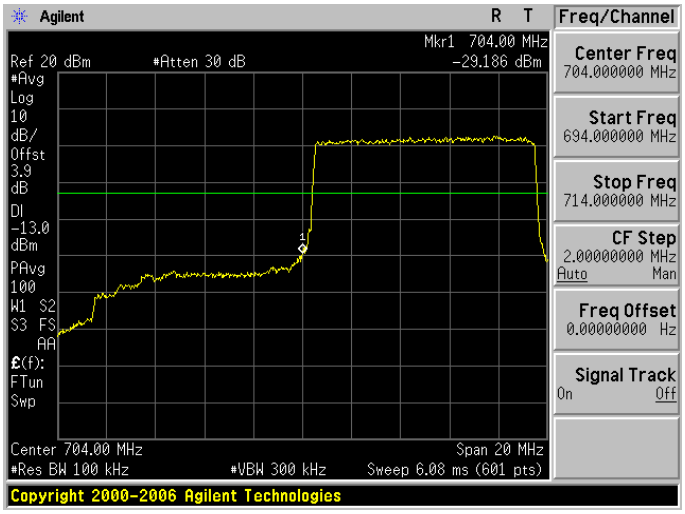
Frequency	LTE Band 13	Channel Bandwidth	5 MHz	RB Allocated	25
Res BW	100kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	10 MHz	RB Allocated	50
Res BW	100kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	5 MHz	RB Allocated	25
Res BW	10kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 13	Channel Bandwidth	10 MHz	RB Allocated	50
Res BW	10kHz				
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 17	Channel Bandwidth	5 MHz	RB Allocated	25
Lower Band Edge					
Higher Band Edge					

Frequency	LTE Band 17	Channel Bandwidth	10 MHz	RB Allocated	50
Lower Band Edge					
Higher Band Edge