FCC 47 CFR RF Test Report

Product Type	:	Wireless Mobile HotSpot
Applicant	:	Netgear Incorporated
Address	:	350 East Plumeria Drive San Jose, CA 95134 United States
Model Number	:	AirCard 771S
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2012 FCC 47 CFR PART 24E: Oct, 2012 FCC 47 CFR PART 27: Oct. 2012 FCC 47 CFR PART 90: Oct, 2012 ANSI C63.4: 2009 ANSI/TIA-603-C-2004
Application Purpose	:	Original
Receive Date	:	Feb. 19, 2013
Test Period	:	Mar. 01,~ Jun. 19, 2013
Issue Date	:	Jun. 20, 2013

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Apr. 10, 2013	Initial Issue	
01	May 16, 2013	Revised LTE Band 41 radiated emission results.	Joyce Liao
02	May 24, 2013	Revised section 3.4 and 9.4 description.	Joyce Liao
03	May 27, 2013	Revised emission designator.	Joyce Liao
04	May 29, 2013	Add conducted band edge test results.	Joyce Liao
05	Jun. 11, 2013	Add conducted band edge test results.	Joyce Liao
06	Jun. 20, 2013	Add LTE band 25 and 26 bandwidth 3MHz results.	Joyce Liao

Verification of Compliance

Issued Date: 06/20/2013

Product Type	:	Wireless Mobile HotSpot
Applicant	:	Netgear Incorporated
Address	:	350 East Plumeria Drive San Jose, CA 95134 United States
Model Number	:	AirCard 771S
FCC ID	:	PY3AC771S
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2012 FCC 47 CFR PART 24E: Oct, 2012 FCC 47 CFR PART 27: Oct. 2012 FCC 47 CFR PART 90: Oct, 2012 ANSI C63.4: 2009 ANSI/TIA-603-C-2004
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 C63.4: 2009 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	:		Reviewed By	:	
(Manager)		(Murphy Wang)	(Testing Engineer)		(Fly Lu)

TABLE OF CONTENTS

1 General Information

1.1. EUT Description

Applicant		Netgear Incorporated			
Applicant Address		350 East Plumeria Drive San Jose, CA 95134 United States			
Manufacturer		Netgear Incorporated			
Manufacturer Address		350 East Plumeria Drive San Jose, CA 95134 United States			
Product Type		Wireless Mobile HotSpot			
Model Number		AirCard 771S			
FCC ID		PY3AC771S			
Mode	LTE	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		25	1851.5 ~ 1913.5	1931.5 ~ 1993.5	QPSK, 16QAM
		26	818.5 ~ 847.5	863.5 ~ 892.5	QPSK, 16QAM
		Band	Allocation (MHz)		Modulation
		41	2498.5 ~ 2687.5		QPSK, 16QAM
Channel Bandwidth		LTE Band 25	3M, 5MHz, 10MHz		
		LTE Band 26	3M, 5MHz, 10MHz		
		LTE Band 41	5MHz, 10MHz, 15MHz, 20MHz		

Max. Conducted Output Average Power	LTE Band 25 (Channel Bandwidth 3MHz)	0.177 W	
	LTE Band 25 (Channel Bandwidth 5MHz)	0.183 W	
	LTE Band 25 (Channel Bandwidth 10MHz)	0.178 W	
	LTE Band 26 (Channel Bandwidth 3MHz)	0.183 W	
	LTE Band 26 (Channel Bandwidth 5MHz)	0.191 W	
	LTE Band 26 (Channel Bandwidth 10MHz)	0.187 W	
	LTE Band 41 (Channel Bandwidth 5MHz)	0.178 W	
	LTE Band 41 (Channel Bandwidth 10MHz)	0.176 W	
	LTE Band 41 (Channel Bandwidth 15MHz)	0.175 W	
	LTE Band 41 (Channel Bandwidth 20MHz)	0.174 W	
Max. E.R.P. / E.I.R.P.	LTE Band 25 (Channel Bandwidth 3MHz)	0.352 W (E.I.R.P.)	
	LTE Band 25 (Channel Bandwidth 5MHz)	0.450 W (E.I.R.P.)	
	LTE Band 25 (Channel Bandwidth 10MHz)	0.450 W (E.I.R.P.)	
	LTE Band 26 (Channel Bandwidth 3MHz)	1.409 W (E.R.P.)	
	LTE Band 26 (Channel Bandwidth 5MHz)	1.706 W (E.R.P.)	
	LTE Band 26 (Channel Bandwidth 10MHz)	1.679 W (E.R.P.)	
	LTE Band 41 (Channel Bandwidth 5MHz)	0.427 W (E.I.R.P.)	
	LTE Band 41 (Channel Bandwidth 10MHz)	0.457 W (E.I.R.P.)	
	LTE Band 41 (Channel Bandwidth 15MHz)	0.489 W (E.I.R.P.)	
	LTE Band 41 (Channel Bandwidth 20MHz)	0.512 W (E.I.R.P.)	
Emission Designator	Band	QPSK	16QAM
	LTE Band 25 (Channel Bandwidth 3MHz)	2M69F9W	2M69F9W
	LTE Band 25 (Channel Bandwidth 5MHz)	4M48F9W	4M47F9W
	LTE Band 25 (Channel Bandwidth 10MHz)	8M95F9W	8M94F9W
	LTE Band 26 (Channel Bandwidth 3MHz)	2M69F9W	2M68F9W
	LTE Band 26 (Channel Bandwidth 5MHz)	4M48F9W	4M47F9W
	LTE Band 26 (Channel Bandwidth 10MHz)	8M96F9W	8M96F9W
	LTE Band 41 (Channel Bandwidth 5MHz)	4M48F9W	4M48F9W
	LTE Band 41 (Channel Bandwidth 10MHz)	8M94F9W	8M94F9W
	LTE Band 41 (Channel Bandwidth 15MHz)	13M4F9W	13M4F9W
	LTE Band 41 (Channel Bandwidth 20MHz)	17M9F9W	17M9F9W

1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

LTE Band 25						
Channel Bandwidth	3MHz		5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26055	1851.5	26065	1852.5	26090	1855.0
Middle CH	26365	1882.5	26365	1882.5	26365	1882.5
High CH	26675	1913.5	26665	1912.5	26640	1910.0

LTE Band 26						
Channel Bandwidth	3MHz		5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	26735	818.5	26755	820.5	26770	822.0
Middle CH	26865	831.5	26865	831.5	26865	831.5
High CH	27025	847.5	27015	846.5	26990	844.0

LTE Band 41				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39675	2498.5	39700	2501.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41565	2687.5	41540	2685.0
Channel Bandwidth	15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	39725	2503.5	39750	2506.0
Middle CH	40620	2593.0	40620	2593.0
High CH	41515	2682.5	41490	2680.0

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.

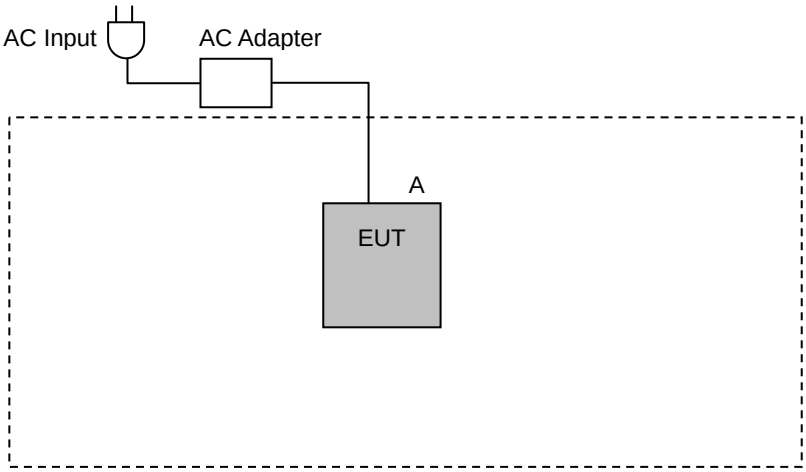
Band	Channel Bandwidth	Test Modes	
LTE Band 25	3 MHz	☑ LTE(RB Size 1, RB Offset 0) Link ☐ LTE(RB Size 1, RB Offset 7) Link ☐ LTE(RB Size 1, RB Offset 14) Link ☐ LTE(RB Size 8, RB Offset 0) Link ☐ LTE(RB Size 8, RB Offset 4) Link ☐ LTE(RB Size 8, RB Offset 7) Link ☐ LTE(RB Size 15, RB Offset 0) Link	QPSK
	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 11) 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 24) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 26	3 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 2) Link ☐ LTE(RB Size 6, 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 11) 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 24) Link ☐ LTE(RB Size 50, RB Offset 0) Link	QPSK

Band	Channel Bandwidth	Test Modes	
LTE Band 41	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 11) 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 24) 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 74) Link ☐ LTE(RB Size 36, RB Offset 0) Link ☐ LTE(RB Size 36, RB Offset 18) Link ☐ LTE(RB Size 36, RB Offset 35) 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 99) Link ☐ LTE(RB Size 50, RB Offset 0) Link ☐ LTE(RB Size 50, RB Offset 25) Link ☐ LTE(RB Size 50, RB Offset 49) Link ☐ LTE(RB Size 100, 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



Signal Cable Type		Signal Cable Description
A	USB Cable	Shielded, 1.2 m

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	IC Standards	Description	Result
§2.1046	---	Conducted Output Average Power	Pass
§22.913 §24.232 §90.635 §27. 54	RSS-132, 4.4 RSS-133, 6.4	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §22.355 §24.235 §27. 54	RSS-132, 4.3 RSS-133, 6.3	Frequency Stability	Pass
§2.1049	RSS-Gen, 4.6	Occupied Bandwidth	Pass
§24.232 §27.50	---	Peak to average ratio	Pass
§2.1051 §22.917 §24.238 §90.691 §27.53	RSS-Gen, 4.6	Band Edge and Emission Mask	Pass
§2.1051 §22.917 §24.238 §27.53	RSS-132, 4.5 RSS-133, 6.5	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §90.691 §27.53	RSS-132, 4.5 RSS-133, 6.5 RSS-Gen, 4.10	Field Strength of Spurious Radiation Test	Pass

2 Conducted Output Average Power Test

2.1. Limit

N/A

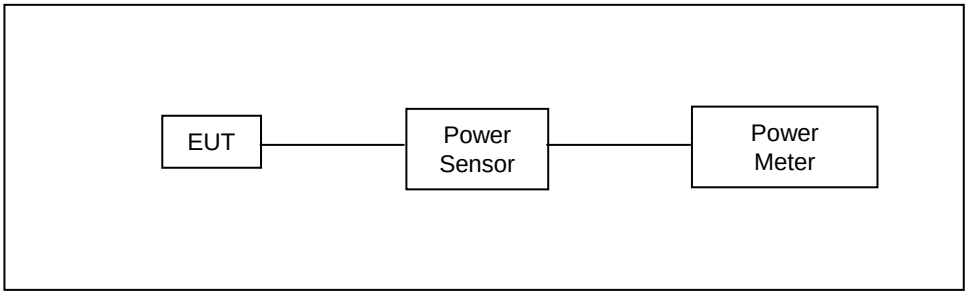
2.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(1)
Wideband Power Sensor	Agilent	N1921A	MY45241957	12/19/2012	(1)
Single Channel PK Power Meter	Agilent	N1911A	MY45101619	12/19/2012	(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	AirCard 771S		
Test Item	Conducted Output Average Power		
Date of Test	03/01/2013, 06/18/2013	Test Site	TE05

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 25	3 MHz	QPSK	26055	1851.5	1	0	**22.48**	**0.177**
					1	7	22.45	0.176
					1	14	22.42	0.175
					8	0	21.50	0.141
					8	4	21.40	0.138
					8	7	21.52	0.142
					15	0	21.37	0.137
			26365	1882.5	1	0	22.46	0.176
					1	7	22.45	0.176
					1	14	22.42	0.175
					8	0	21.36	0.137
					8	4	21.45	0.140
					8	7	21.46	0.140
					15	0	21.46	0.140
			26675	1913.5	1	0	22.41	0.174
					1	7	22.36	0.172
					1	14	22.29	0.169
					8	0	21.52	0.142
					8	4	21.42	0.139
					8	7	21.38	0.137
					15	0	21.33	0.136
		16QAM	26055	1851.5	1	0	21.45	0.140
					1	7	21.37	0.137
					1	14	21.26	0.134
					8	0	20.31	0.107
					8	4	20.20	0.105
					8	7	20.33	0.108
					15	0	20.32	0.108
			26365	1882.5	1	0	21.44	0.139
					1	7	21.41	0.138
					1	14	21.39	0.138
					8	0	20.22	0.105
					8	4	20.20	0.105
					8	7	20.19	0.104
					15	0	20.29	0.107
			26675	1913.5	1	0	21.43	0.139
					1	7	21.39	0.138
					1	14	21.22	0.132
					8	0	20.24	0.106
					8	4	20.23	0.105
					8	7	20.14	0.103
					15	0	20.27	0.106

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 25	5 MHz	QPSK	26065	1852.5	1	0	**22.62**	**0.183**
					1	12	22.59	0.182
					1	24	22.56	0.180
					12	0	21.68	0.147
					12	6	21.64	0.146
					12	11	21.60	0.145
					25	0	21.58	0.144
			26365	1882.5	1	0	22.60	0.182
					1	12	22.56	0.180
					1	24	22.55	0.180
					12	0	21.66	0.147
					12	6	21.63	0.146
					12	11	21.58	0.144
					25	0	21.57	0.144
			26665	1912.5	1	0	22.59	0.182
					1	12	22.55	0.180
					1	24	22.52	0.179
					12	0	21.62	0.145
					12	6	21.60	0.145
					12	11	21.56	0.143
					25	0	21.54	0.143
		16QAM	26065	1852.5	1	0	21.69	0.148
					1	12	21.67	0.147
					1	24	21.64	0.146
					12	0	20.76	0.119
					12	6	20.73	0.118
					12	11	20.72	0.118
					25	0	20.69	0.117
			26365	1882.5	1	0	21.67	0.147
					1	12	21.62	0.145
					1	24	21.61	0.145
					12	0	20.72	0.118
					12	6	20.70	0.117
					12	11	20.66	0.116
					25	0	20.64	0.116
			26665	1912.5	1	0	21.66	0.147
					1	12	21.60	0.145
					1	24	21.58	0.144
					12	0	20.69	0.117
					12	6	20.66	0.116
					12	11	20.65	0.116
					25	0	20.62	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 25	10 MHz	QPSK	26090	1855.0	1	0	**22.51**	**0.178**
					1	24	22.50	0.178
					1	49	22.49	0.177
					25	0	21.63	0.146
					25	12	21.60	0.145
					25	24	21.58	0.144
					50	0	21.55	0.143
			26365	1882.5	1	0	22.49	0.177
					1	24	22.48	0.177
					1	49	22.45	0.176
					25	0	21.60	0.145
					25	12	21.57	0.144
					25	24	21.55	0.143
					50	0	21.54	0.143
			26640	1910.0	1	0	22.48	0.177
					1	24	22.46	0.176
					1	49	22.42	0.175
					25	0	21.58	0.144
					25	12	21.57	0.144
					25	24	21.55	0.143
					50	0	21.53	0.142
		16QAM	26090	1855.0	1	0	21.59	0.144
					1	24	21.56	0.143
					1	49	21.55	0.143
					25	0	20.71	0.118
					25	12	20.68	0.117
					25	24	20.65	0.116
					50	0	20.62	0.115
			26365	1882.5	1	0	21.56	0.143
					1	24	21.51	0.142
					1	49	21.50	0.141
					25	0	20.69	0.117
					25	12	20.66	0.116
					25	24	20.64	0.116
					50	0	20.60	0.115
			26640	1910.0	1	0	21.55	0.143
					1	24	21.50	0.141
					1	49	21.48	0.141
					25	0	20.66	0.116
					25	12	20.64	0.116
					25	24	20.61	0.115
					50	0	20.58	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 26	3 MHz	QPSK	26735	818.5	1	0	**22.62**	**0.183**
					1	2	22.50	0.178
					1	5	22.35	0.172
					3	0	22.42	0.175
					3	1	22.45	0.176
					3	2	22.31	0.170
					6	0	21.34	0.136
			26865	831.5	1	0	22.53	0.179
					1	2	22.47	0.177
					1	5	22.44	0.175
					3	0	22.38	0.173
					3	1	22.36	0.172
					3	2	22.39	0.173
					6	0	21.38	0.137
			27025	847.5	1	0	22.47	0.177
					1	2	22.41	0.174
					1	5	22.34	0.171
					3	0	22.40	0.174
					3	1	22.37	0.173
					3	2	22.34	0.171
					6	0	21.40	0.138
		16QAM	26735	818.5	1	0	21.57	0.144
					1	2	21.53	0.142
					1	5	21.51	0.142
					3	0	21.40	0.138
					3	1	21.47	0.140
					3	2	21.37	0.137
					6	0	20.44	0.111
			26865	831.5	1	0	21.69	0.148
					1	2	21.67	0.147
					1	5	21.53	0.142
					3	0	21.43	0.139
					3	1	21.41	0.138
					3	2	21.44	0.139
					6	0	20.50	0.112
			27025	847.5	1	0	21.70	0.148
					1	2	21.62	0.145
					1	5	21.59	0.144
					3	0	21.49	0.141
					3	1	21.48	0.141
					3	2	21.45	0.140
					6	0	20.54	0.113

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 26	5 MHz	QPSK	26755	820.5	1	0	**22.70**	**0.186**
					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	11	21.73	0.149
					25	0	21.71	0.148
			26865	831.5	1	0	22.58	0.181
					1	12	22.56	0.180
					1	24	22.54	0.179
					12	0	21.72	0.149
					12	6	21.70	0.148
					12	11	21.66	0.147
					25	0	21.65	0.146
			27015	846.5	1	0	22.60	0.182
					1	12	22.57	0.181
					1	24	22.53	0.179
					12	0	21.77	0.150
					12	6	21.73	0.149
					12	11	21.70	0.148
					25	0	21.68	0.147
		16QAM	26755	820.5	1	0	21.78	0.151
					1	12	21.67	0.147
					1	24	21.64	0.146
					12	0	20.86	0.122
					12	6	20.82	0.121
					12	11	20.77	0.119
					25	0	20.73	0.118
			26865	831.5	1	0	21.69	0.148
					1	12	21.67	0.147
					1	24	21.64	0.146
					12	0	20.82	0.121
					12	6	20.78	0.120
					12	11	20.73	0.118
					25	0	20.67	0.117
			27015	846.5	1	0	21.73	0.149
					1	12	21.69	0.148
					1	24	21.67	0.147
					12	0	20.86	0.122
					12	6	20.82	0.121
					12	11	20.77	0.119
					25	0	20.69	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 26	10 MHz	QPSK	26770	822.0	1	0	22.73	**0.187**
					1	24	22.66	0.185
					1	49	22.63	0.183
					25	0	21.73	0.149
					25	12	21.65	0.146
					25	24	21.61	0.145
					50	0	21.60	0.145
			26865	831.5	1	0	22.60	0.182
					1	24	22.56	0.180
					1	49	22.53	0.179
					25	0	21.69	0.148
					25	12	21.67	0.147
					25	24	21.62	0.145
					50	0	21.57	0.144
			26990	844.0	1	0	22.57	0.181
					1	24	22.55	0.180
					1	49	22.51	0.178
					25	0	21.64	0.146
					25	12	21.60	0.145
					25	24	21.57	0.144
					50	0	21.48	0.141
		16QAM	26770	822.0	1	0	21.75	0.150
					1	24	21.72	0.149
					1	49	21.71	0.148
					25	0	20.90	0.123
					25	12	20.88	0.122
					25	24	20.81	0.121
					50	0	20.70	0.117
			26865	831.5	1	0	21.68	0.147
					1	24	21.66	0.147
					1	49	21.60	0.145
					25	0	20.83	0.121
					25	12	20.78	0.120
					25	24	20.74	0.119
					50	0	20.66	0.116
			26990	844.0	1	0	21.62	0.145
					1	24	21.59	0.144
					1	49	21.56	0.143
					25	0	20.69	0.117
					25	12	20.67	0.117
					25	24	20.61	0.115
					50	0	20.56	0.114

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 41	5 MHz	QPSK	39675	2498.5	1	0	21.55	0.143
					1	12	21.81	0.152
					1	24	22.05	0.160
					12	0	20.77	0.119
					12	6	20.86	0.122
					12	11	20.95	0.124
					25	0	20.75	0.119
			40620	2593.0	1	0	22.32	0.171
					1	12	22.39	0.173
					1	24	**22.50**	**0.178**
					12	0	21.42	0.139
					12	6	21.45	0.140
					12	11	21.48	0.141
					25	0	21.39	0.138
			41565	2687.5	1	0	21.99	0.158
					1	12	21.83	0.152
					1	24	21.85	0.153
					12	0	21.17	0.131
					12	6	21.08	0.128
					12	11	21.03	0.127
					25	0	21.02	0.126
		16QAM	39675	2498.5	1	0	20.68	0.117
					1	12	20.97	0.125
					1	24	21.13	0.130
					12	0	19.82	0.096
					12	6	20.03	0.101
					12	11	20.11	0.103
					25	0	19.80	0.095
			40620	2593.0	1	0	21.73	0.149
					1	12	21.77	0.150
					1	24	21.87	0.154
					12	0	20.75	0.119
					12	6	20.77	0.119
					12	11	20.79	0.120
					25	0	20.52	0.113
			41565	2687.5	1	0	21.55	0.143
					1	12	21.36	0.137
					1	24	21.31	0.135
					12	0	20.29	0.107
					12	6	20.28	0.107
					12	11	20.27	0.106
					25	0	20.13	0.103

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 41	10 MHz	QPSK	39700	2501.0	1	0	21.58	0.144
					1	24	22.00	0.158
					1	49	22.13	0.163
					25	0	21.21	0.132
					25	12	21.43	0.139
					25	24	21.47	0.140
					50	0	21.16	0.131
			40620	2593.0	1	0	22.27	0.169
					1	24	22.37	0.173
					1	49	**22.45**	**0.176**
					25	0	21.32	0.136
					25	12	21.41	0.138
					25	24	21.53	0.142
					50	0	21.28	0.134
			41540	2685.0	1	0	22.27	0.169
					1	24	21.90	0.155
					1	49	21.84	0.153
					25	0	21.35	0.136
					25	12	21.24	0.133
					25	24	21.22	0.132
					50	0	21.31	0.135
		16QAM	39700	2501.0	1	0	20.82	0.121
					1	24	21.38	0.137
					1	49	21.65	0.146
					25	0	19.88	0.097
					25	12	20.13	0.103
					25	24	20.25	0.106
					50	0	19.84	0.096
			40620	2593.0	1	0	21.72	0.149
					1	24	21.81	0.152
					1	49	21.87	0.154
					25	0	20.45	0.111
					25	12	20.52	0.113
					25	24	20.55	0.114
					50	0	20.41	0.110
			41540	2685.0	1	0	21.33	0.136
					1	24	21.15	0.130
					1	49	21.07	0.128
					25	0	19.98	0.100
					25	12	19.79	0.095
					25	24	19.77	0.095
					50	0	19.79	0.095

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 41	15 MHz	QPSK	39725	2503.5	1	0	21.71	0.148
					1	74	22.37	0.173
					36	0	20.82	0.121
					36	18	21.06	0.128
					36	35	21.07	0.128
					75	0	21.03	0.127
			40620	2593.0	1	0	22.26	0.168
					1	74	**22.44**	**0.175**
					36	0	21.36	0.137
					36	18	21.45	0.140
					36	35	21.53	0.142
					75	0	21.35	0.136
			41515	2682.5	1	0	22.33	0.171
					1	74	21.89	0.155
					36	0	21.35	0.136
					36	18	21.28	0.134
					36	35	21.25	0.133
					75	0	21.34	0.136
		16QAM	39725	2503.5	1	0	20.92	0.124
					1	74	21.55	0.143
					36	0	19.58	0.091
					36	18	19.88	0.097
					36	35	19.92	0.098
					75	0	19.53	0.090
			40620	2593.0	1	0	21.66	0.147
					1	74	21.81	0.152
					36	0	20.01	0.100
					36	18	20.09	0.102
					36	35	20.11	0.103
					75	0	19.98	0.100
			41515	2682.5	1	0	21.41	0.138
					1	74	20.95	0.124
					36	0	19.94	0.099
					36	18	19.89	0.097
					36	35	19.85	0.097
					75	0	19.90	0.098

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 41	20 MHz	QPSK	39750	2506	1	0	21.64	0.146
					1	99	22.33	0.171
					50	0	20.83	0.121
					50	25	20.99	0.126
					50	49	21.03	0.127
					100	0	20.82	0.121
			40620	2593	1	0	22.18	0.165
					1	99	**22.40**	**0.174**
					50	0	21.25	0.133
					50	25	21.23	0.133
					50	49	21.44	0.139
					100	0	21.21	0.132
			41490	2680	1	0	22.38	0.173
					1	99	21.91	0.155
					50	0	21.06	0.128
					50	25	20.93	0.124
					50	49	20.70	0.117
					100	0	21.02	0.126
		16QAM	39750	2506	1	0	21.08	0.128
					1	99	21.76	0.150
					50	0	19.81	0.096
					50	25	19.98	0.100
					50	49	20.01	0.100
					100	0	19.77	0.095
			40620	2593	1	0	21.25	0.133
					1	99	21.57	0.144
					50	0	20.01	0.100
					50	25	20.02	0.100
					50	49	20.04	0.101
					100	0	20.01	0.100
			41490	2680	1	0	21.45	0.140
					1	99	20.98	0.125
					50	0	19.95	0.099
					50	25	19.93	0.098
					50	49	19.78	0.095
					100	0	19.93	0.098

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 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.

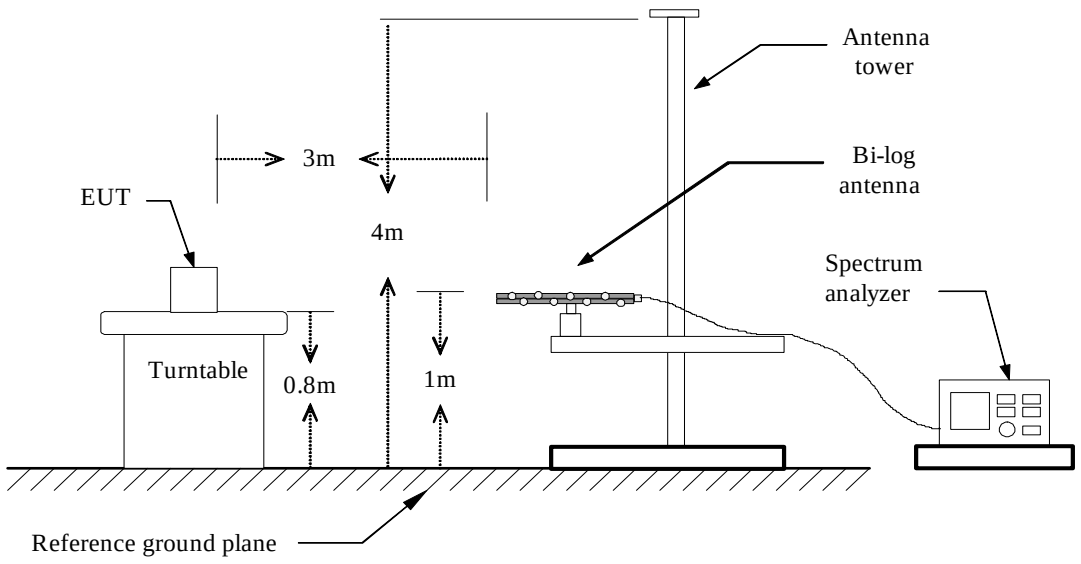
3.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/21/2013	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/21/2013	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2013	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2013	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/29/2012	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/15/2012	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/21/2012	(1)
Test Site	ATL	TE01	888001	08/28/2012	(1)

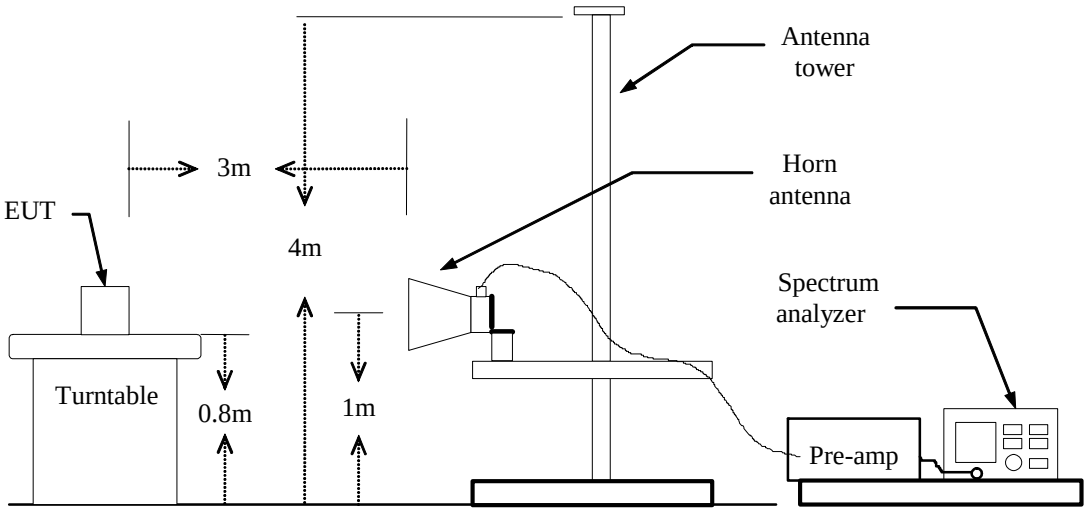
Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

3.3. Test Setup

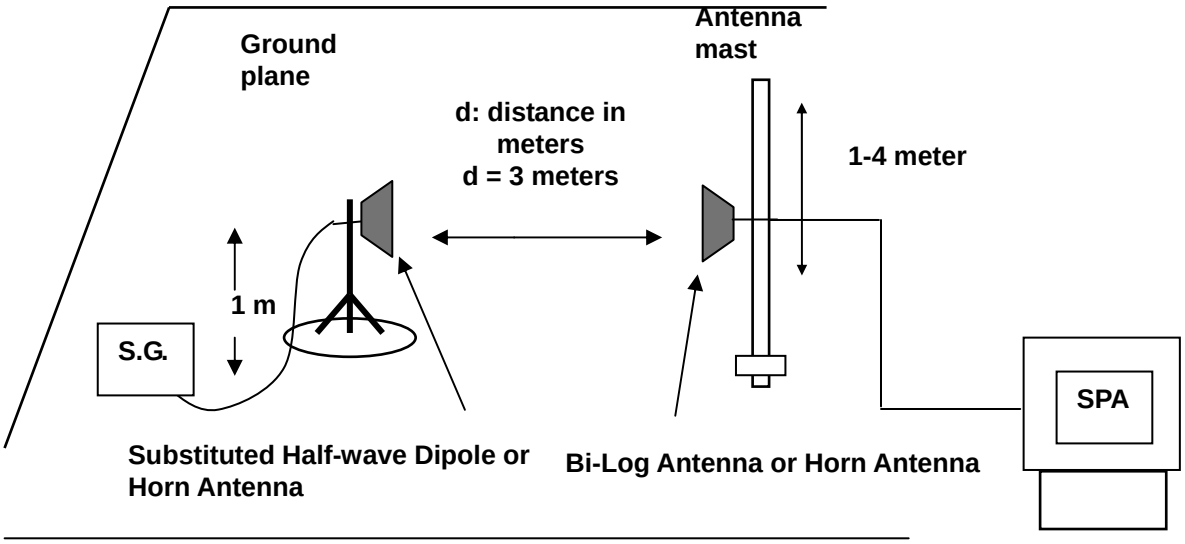
Below 1 GHz



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 R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE and 5MHz for WCDMA mode.
b. Pre Scan has been conducted and radiation three axis to determine the worst case mode all possible combinations between available modulations.
c. 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.
d. 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.
e. E.I.R.P. = Output power level of S.G TX cable loss + Antenna gain of substitution horn
f. 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	AirCard 771S		
Test Item	E.I.R.P. / E.R.P.		
Date of Test	03/02/2013	Test Site	TC03

LTE Band 25								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
3 MHz	QPSK	1851.5	H	6.89	13.55	20.44	0.111	< 2
			V	10.98	13.55	24.53	0.284	< 2
		1882.5	H	8.16	13.59	21.75	0.150	< 2
			V	11.48	13.59	25.07	0.321	< 2
		1913.5	H	7.99	13.62	21.61	0.145	< 2
			V	11.86	13.61	**25.47**	**0.352**	< 2
	16QAM	1851.5	H	7.52	13.55	21.07	0.128	< 2
			V	11.82	13.55	25.37	0.344	< 2
5 MHz	QPSK	1852.5	H	12.76	13.55	26.31	0.428	< 2
			V	5.22	11.39	16.61	0.046	< 2
		1882.5	H	12.09	13.59	25.68	0.370	< 2
			V	5.92	11.65	17.57	0.057	< 2
		1912.5	H	10.91	13.61	24.52	0.283	< 2
			V	6.92	11.90	18.82	0.076	< 2
	16QAM	1852.5	H	12.98	13.55	**26.53**	**0.450**	< 2
			V	5.09	11.39	16.48	0.044	< 2
10 MHz	QPSK	1855.0	H	12.78	13.56	26.34	0.431	< 2
			V	5.22	11.40	16.62	0.046	< 2
		1882.5	H	11.40	13.59	24.99	0.316	< 2
			V	4.76	11.63	16.39	0.044	< 2
		1910.0	H	12.90	13.60	26.50	0.447	< 2
			V	8.94	11.86	20.80	0.120	< 2
	16QAM	1855.0	H	12.98	13.55	**26.53**	**0.450**	< 2
			V	5.32	11.40	16.72	0.047	< 2

LTE Band 26								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
3 MHz	QPSK	818.5	H	16.69	9.67	28.51	0.710	< 100
			V	19.57	9.67	31.39	1.377	< 100
		831.5	H	16.49	9.87	28.51	0.710	< 7
			V	18.47	9.87	30.49	1.119	< 7
		847.5	H	14.63	10.24	27.02	0.504	< 7
			V	18.13	10.23	30.51	1.125	< 7
	16QAM	818.5	H	17.24	9.67	29.06	0.805	< 100
			V	19.68	9.66	**31.49**	**1.409**	< 100
5 MHz	QPSK	820.5	H	15.04	9.67	26.86	0.485	< 100
			V	19.69	9.68	31.52	1.419	< 100
		831.5	H	19.41	9.85	31.41	1.384	< 7
			V	13.45	9.16	24.76	0.299	< 7
		846.5	H	20.01	10.16	**32.32**	**1.706**	< 7
			V	11.65	9.26	23.06	0.202	< 7
	16QAM	820.5	H	16.51	9.67	28.33	0.681	< 100
			V	20.28	9.67	32.10	1.622	< 100
10 MHz	QPSK	822.0	H	15.03	9.72	26.90	0.490	< 100
			V	19.76	9.72	31.63	1.455	< 100
		831.5	H	19.47	9.82	31.44	1.393	< 7
			V	13.64	9.15	24.94	0.312	< 7
		844.0	H	20.15	9.95	**32.25**	**1.679**	< 7
			V	12.21	9.20	23.56	0.227	< 7
	16QAM	822.0	H	16.16	9.72	28.03	0.635	< 7
			V	19.72	9.72	31.59	1.442	< 7

LTE Band 41								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
5 MHz	QPSK	2498.5	H	9.82	16.48	**26.30**	**0.427**	< 1
			V	-1.36	16.63	15.27	0.034	< 1
		2593.0	H	9.02	16.72	25.74	0.375	< 1
			V	-2.03	17.31	15.28	0.034	< 1
		2687.5	H	8.93	16.95	25.88	0.387	< 1
			V	-0.17	17.98	17.81	0.060	< 1
	16QAM	2593.0	H	9.17	16.72	25.89	0.388	< 1
			V	-1.81	17.31	15.50	0.035	< 1
10 MHz	QPSK	2501.0	H	9.59	16.49	26.08	0.406	< 1
			V	-1.51	16.66	15.15	0.033	< 1
		2593.0	H	9.29	16.72	26.01	0.399	< 1
			V	-1.34	17.31	15.97	0.040	< 1
		2685.0	H	8.93	16.95	25.88	0.387	< 1
			V	-0.99	17.97	16.98	0.050	< 1
	16QAM	2593.0	H	9.88	16.72	**26.60**	**0.457**	< 1
			V	-1.82	17.32	15.50	0.035	< 1
15 MHz	QPSK	2503.5	H	9.84	16.51	26.35	0.432	< 1
			V	-0.14	16.69	16.55	0.045	< 1
		2593.0	H	10.16	16.73	**26.89**	**0.489**	< 1
			V	-1.50	17.34	15.84	0.038	< 1
		2682.5	H	9.09	16.95	26.04	0.402	< 1
			V	0.12	17.98	18.10	0.065	< 1
	16QAM	2593.0	H	9.72	16.73	26.45	0.442	< 1
			V	-1.81	17.34	15.53	0.036	< 1
20 MHz	QPSK	2506.0	H	9.88	16.51	26.39	0.436	< 1
			V	0.53	16.72	17.25	0.053	< 1
		2593.0	H	8.85	16.74	25.59	0.362	< 1
			V	-0.12	17.36	17.24	0.053	< 1
		2680.0	H	9.26	16.95	26.21	0.418	< 1
			V	9.26	16.95	26.21	0.418	< 1
	16QAM	2506.0	H	10.58	16.51	**27.09**	**0.512**	< 1
			V	0.28	16.72	17.00	0.050	< 1

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℃.

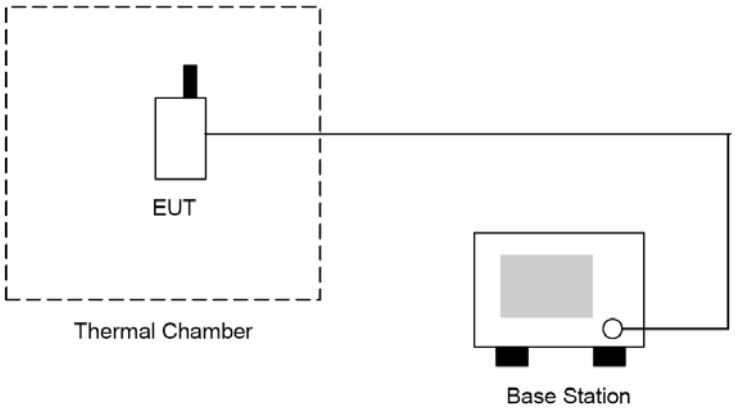
4.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/07/2012	(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	AirCard 771S		
Test Item	Frequency Stability		
Date of Test	03/02/2013, 06/19/2013	Test Site	TE05

LTE Band 25 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
5 MHz	1882.5	4.25	20	-7	-0.004	± 2.5
		3.70	20	-5	-0.003	± 2.5
		3.50	20	-3	-0.002	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
5 MHz	1882.5	3.70	-30	-9	-0.005	± 2.5
		3.70	-20	-7	-0.004	± 2.5
		3.70	-10	-6	-0.003	± 2.5
		3.70	0	5	0.003	± 2.5
		3.70	10	4	0.002	± 2.5
		3.70	20	9	0.005	± 2.5
		3.70	30	13	0.007	± 2.5
		3.70	40	16	0.008	± 2.5
		3.70	50	19	0.010	± 2.5

LTE Band 26 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	831.5	4.25	20	-5	-0.006	± 2.5
		3.70	20	11	0.013	± 2.5
		3.50	20	12	0.014	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	831.5	3.70	-30	13	0.016	± 2.5
		3.70	-20	16	0.019	± 2.5
		3.70	-10	14	0.017	± 2.5
		3.70	0	-9	-0.011	± 2.5
		3.70	10	-6	-0.007	± 2.5
		3.70	20	-8	-0.010	± 2.5
		3.70	30	-4	-0.005	± 2.5
		3.70	40	16	0.019	± 2.5
		3.70	50	-3	-0.004	± 2.5

LTE Band 41 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
5 MHz	2593.0	4.25	20	11	0.013	± 2.5
		3.70	20	12	0.014	± 2.5
		3.50	20	8	0.010	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
5 MHz	2593.0	3.70	-30	-2	-0.001	± 2.5
		3.70	-20	-10	-0.004	± 2.5
		3.70	-10	-15	-0.006	± 2.5
		3.70	0	-9	-0.003	± 2.5
		3.70	10	6	0.002	± 2.5
		3.70	20	5	0.002	± 2.5
		3.70	30	13	0.005	± 2.5
		3.70	40	11	0.004	± 2.5
		3.70	50	7	0.003	± 2.5

5 26dB Bandwidth and Occupied Bandwidth Test

5.1. Limit

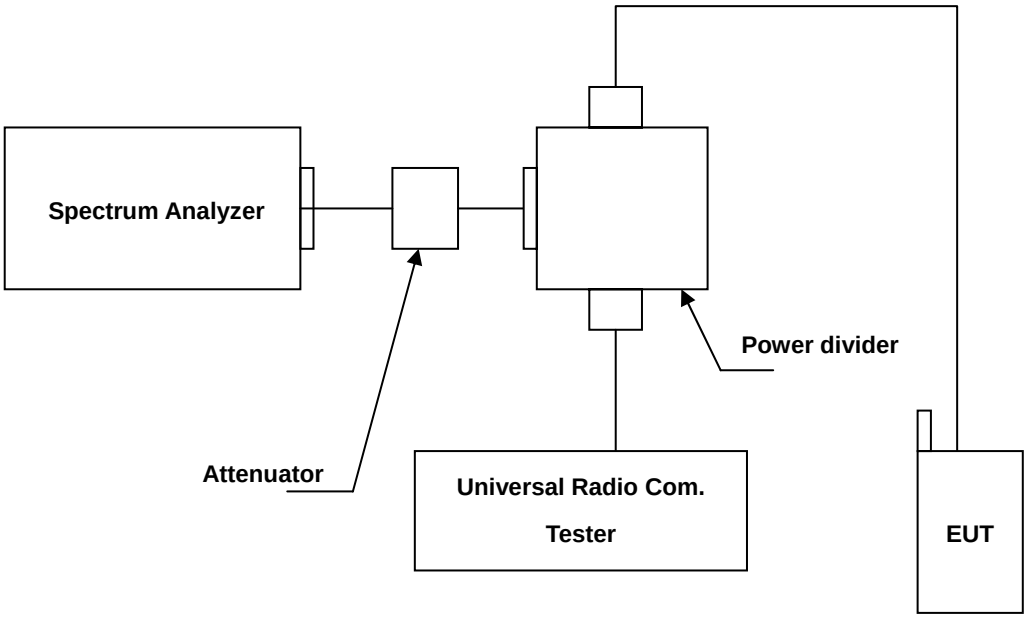
The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.
The emission bandwidth is defined as the width of the signal between two points, located at 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	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(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

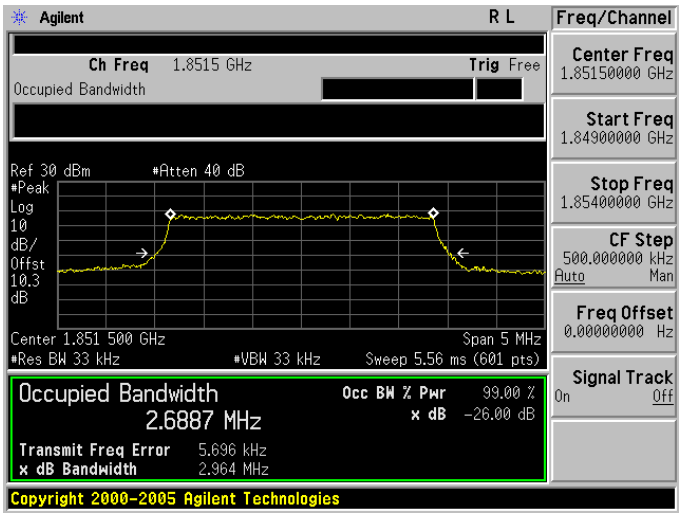
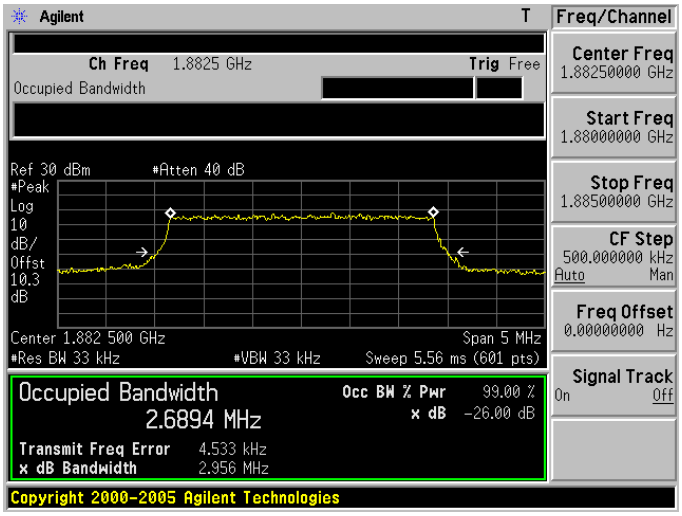
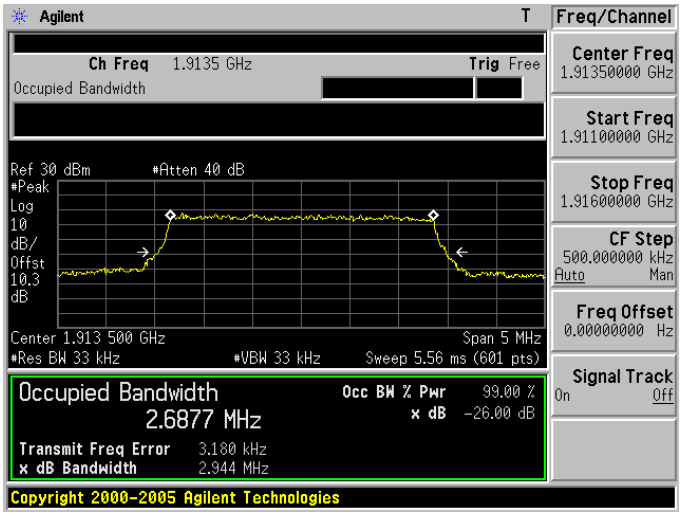
Model Number	AirCard 771S		
Test Item	26dB Bandwidth and Occupied Bandwidth		
Date of Test	03/01/2013	Test Site	TE05

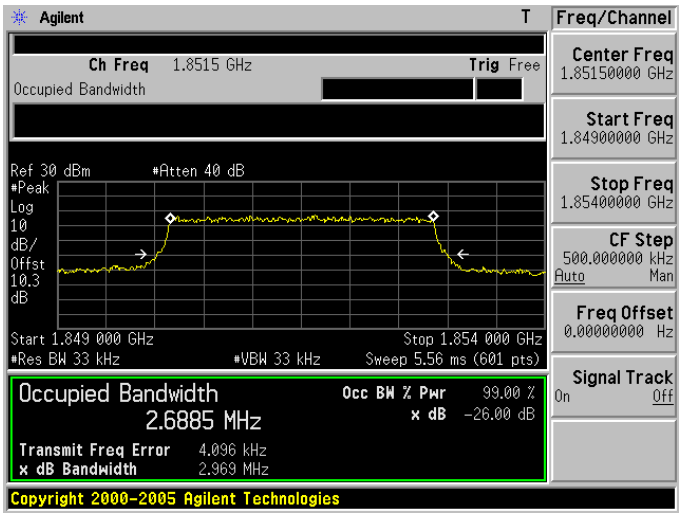
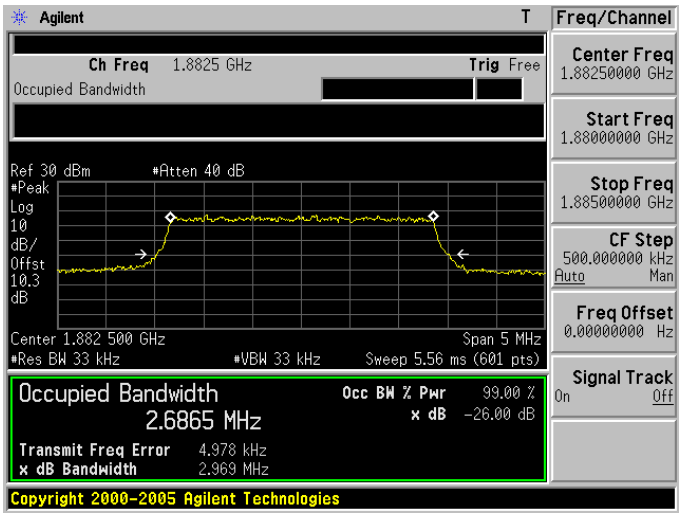
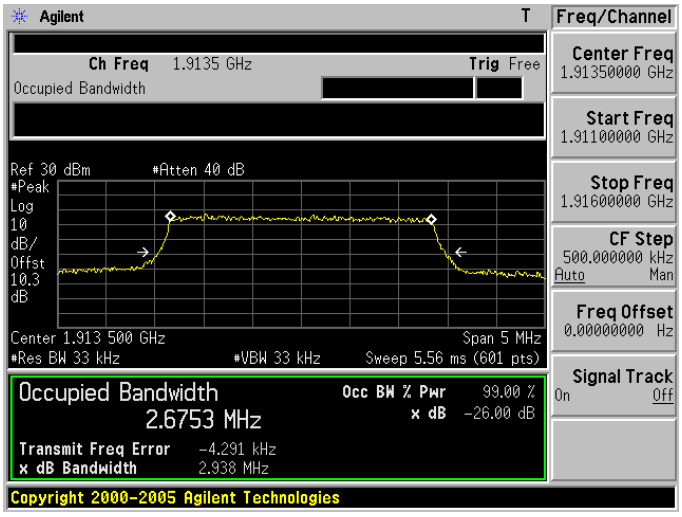
LTE Band 25				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
3 MHz	QPSK	1851.5	2.964	2.6887
		1882.5	2.956	2.6894
		1913.5	2.944	2.6877
	16QAM	1851.5	2.969	2.6885
		1882.5	2.969	2.6865
		1913.5	2.938	2.6753
5 MHz	QPSK	1852.5	4.967	4.4767
		1882.5	4.938	4.4695
		1912.5	4.943	4.4726
	16QAM	1852.5	4.903	4.4659
		1882.5	4.928	4.4675
		1912.5	4.913	4.4665
10 MHz	QPSK	1855.0	9.680	8.9440
		1882.5	9.579	8.9395
		1910.0	9.729	8.9504
	16QAM	1855.0	9.635	8.9350
		1882.5	9.500	8.9103
		1910.0	9.575	8.9199

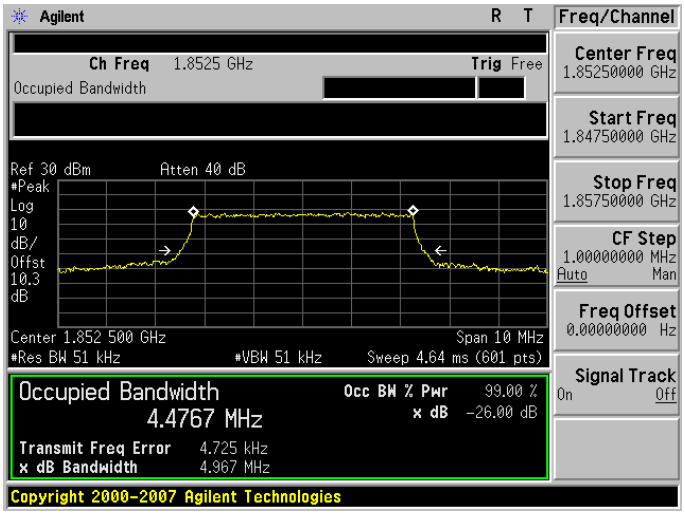
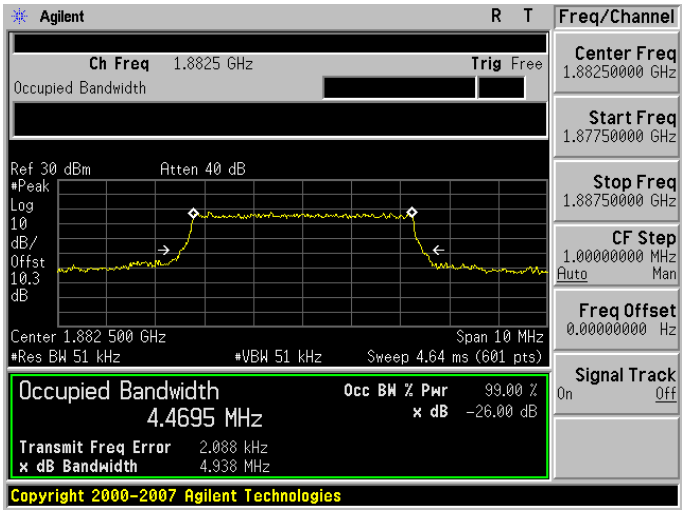
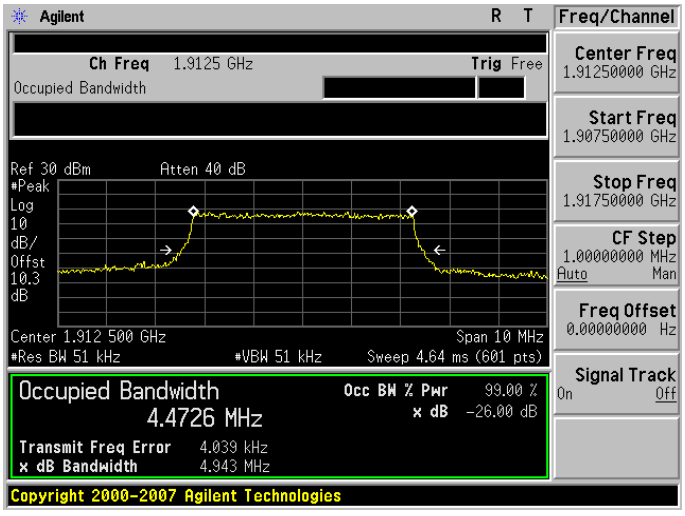
LTE Band 26				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
3 MHz	QPSK	818.5	2.935	2.6878
		831.5	2.970	2.6902
		847.5	2.996	2.6866
	16QAM	818.5	2.978	2.6830
		831.5	2.951	2.6799
		847.5	2.971	2.6790
5 MHz	QPSK	820.5	4.950	4.4768
		831.5	4.946	4.4631
		846.5	4.911	4.4712
	16QAM	820.5	4.902	4.4584
		831.5	4.898	4.4670
		846.5	4.857	4.4675
10 MHz	QPSK	822.0	9.881	8.9252
		831.5	9.824	8.9628
		844.0	9.679	8.9503
	16QAM	822.0	9.692	8.9366
		831.5	9.666	8.9528
		844.0	9.538	8.9093

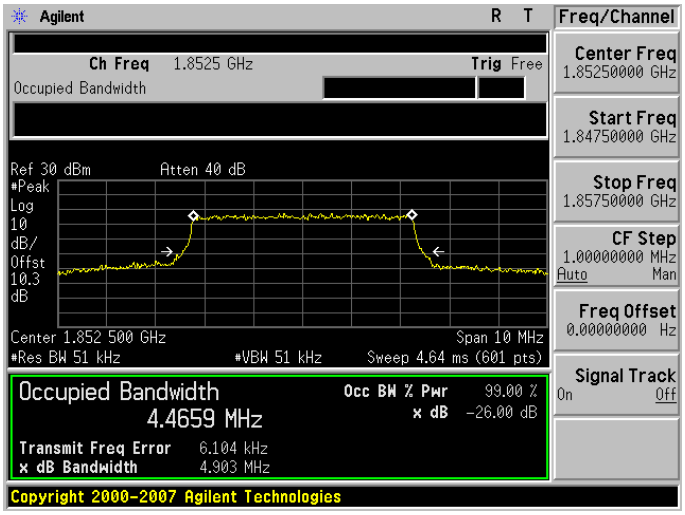
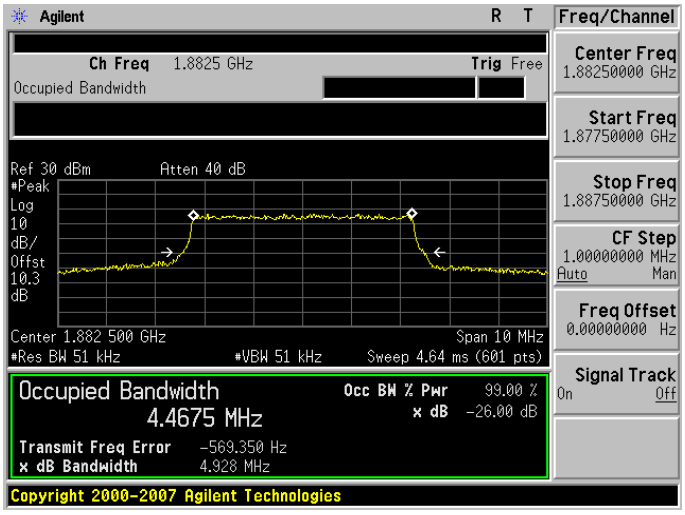
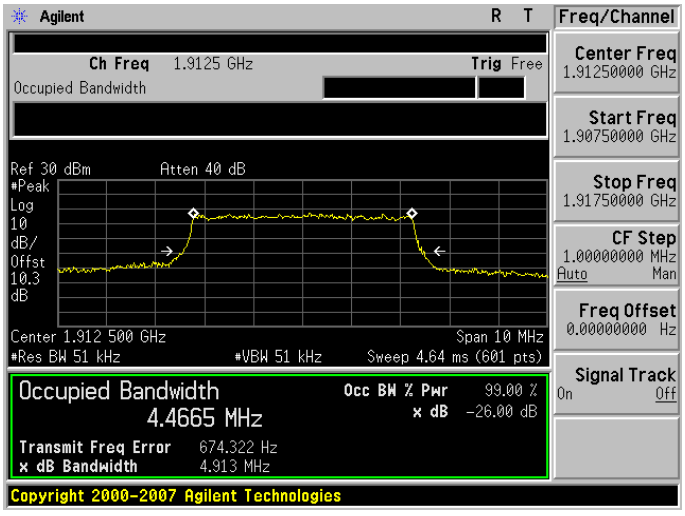
LTE Band 41				
Channel Bandwidth	Modulation	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
5 MHz	QPSK	2498.5	5.059	4.4731
		2593.0	4.922	4.4657
		2687.5	5.029	4.4768
	16QAM	2498.5	4.744	4.4670
		2593.0	4.925	4.4756
		2687.5	5.040	4.4828
10 MHz	QPSK	2501.0	9.684	8.9153
		2593.0	9.590	8.9364
		2685.0	9.486	8.9280
	16QAM	2501.0	9.487	8.9123
		2593.0	9.560	8.9403
		2685.0	9.625	8.9400
15 MHz	QPSK	2503.5	14.547	13.3743
		2593.0	14.486	13.4045
		2682.5	14.370	13.4182
	16QAM	2503.5	14.478	13.3679
		2593.0	14.554	13.4033
		2682.5	14.326	13.3921
20 MHz	QPSK	2506.0	19.906	17.8139
		2593.0	19.459	17.8784
		2680.0	19.147	17.8159
	16QAM	2506.0	19.039	17.8065
		2593.0	19.020	17.9272
		2680.0	19.046	17.8292

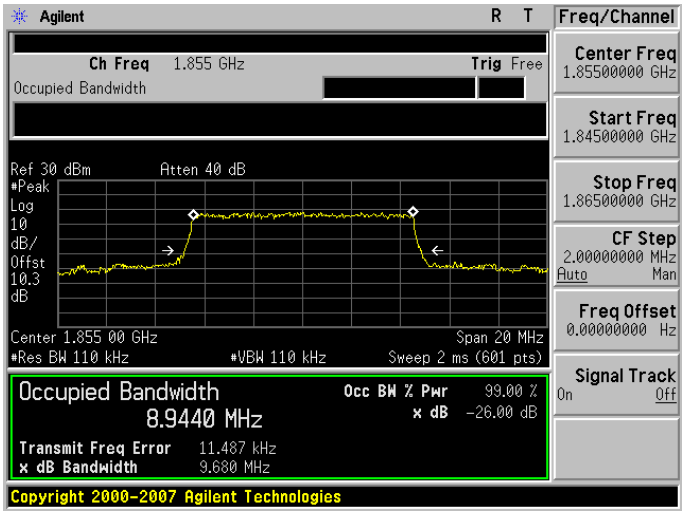
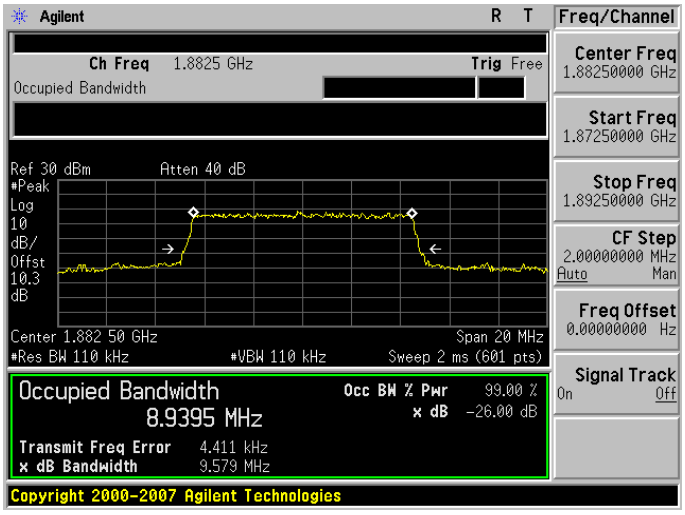
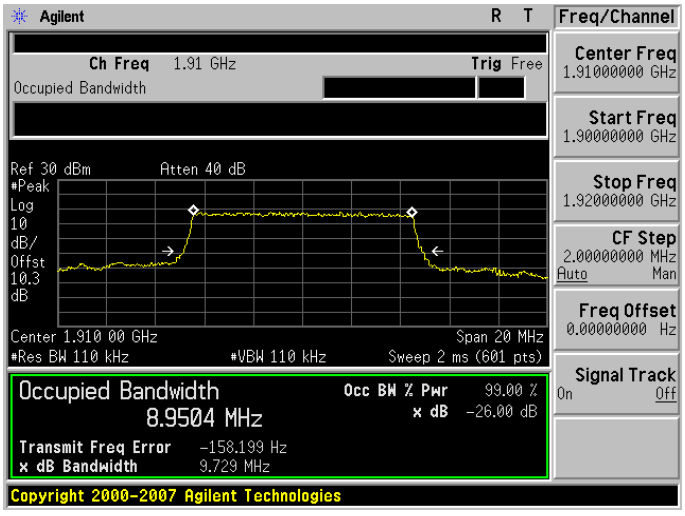
5.7. Test Graphs

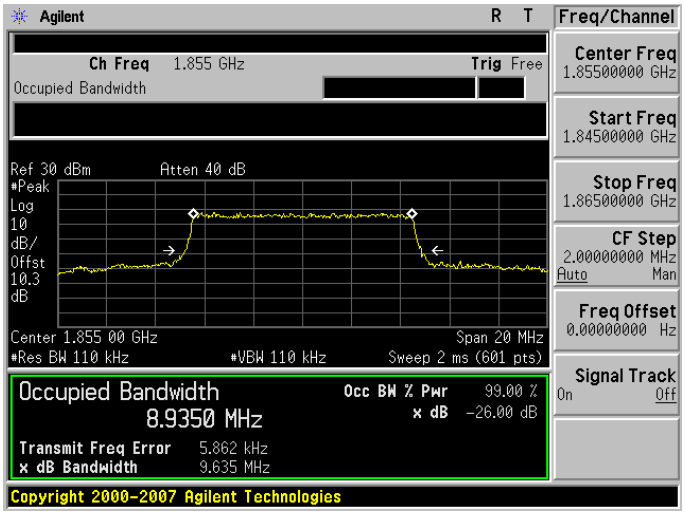
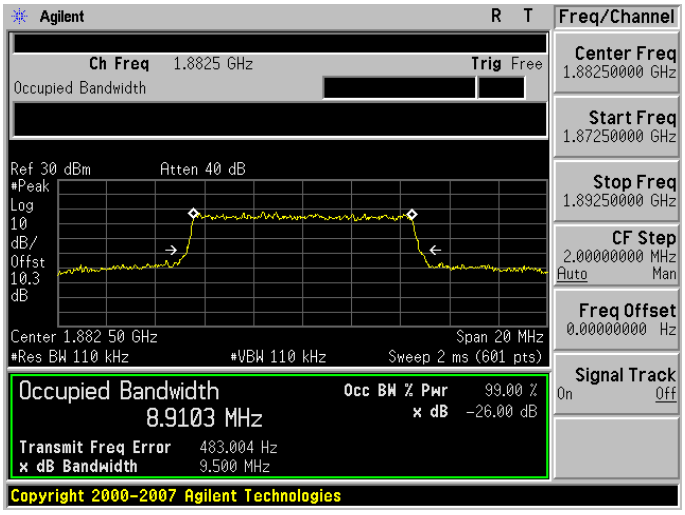
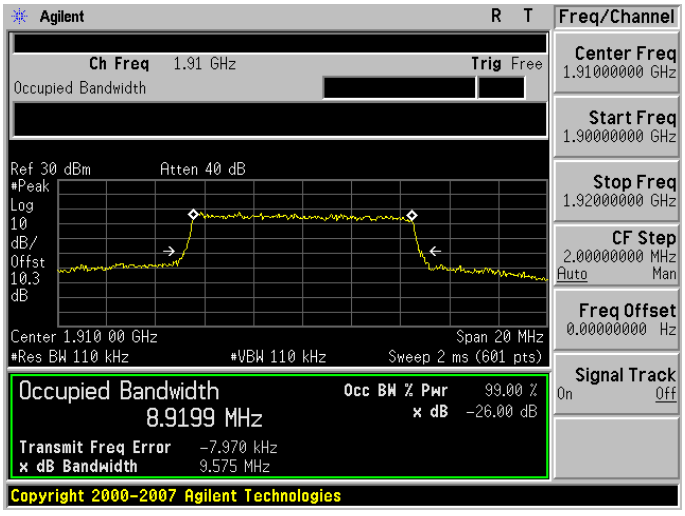
LTE Band 25 (Channel Bandwidth: 3 MHz) _ QPSK	
1851.5 MHz	
1882.5 MHz	
1913.5 MHz	

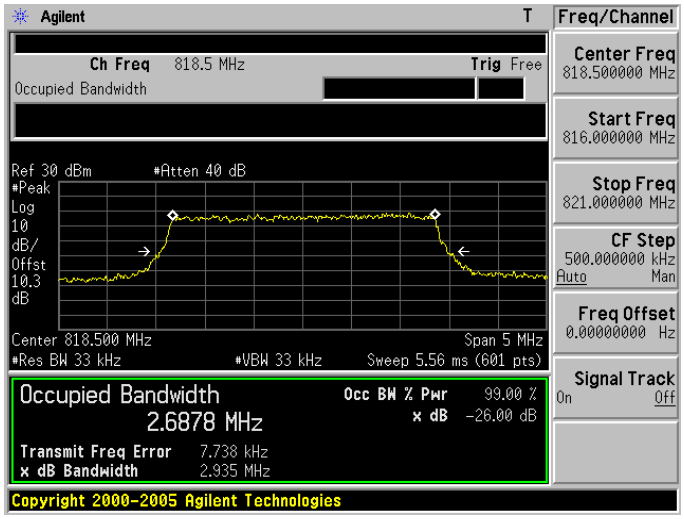
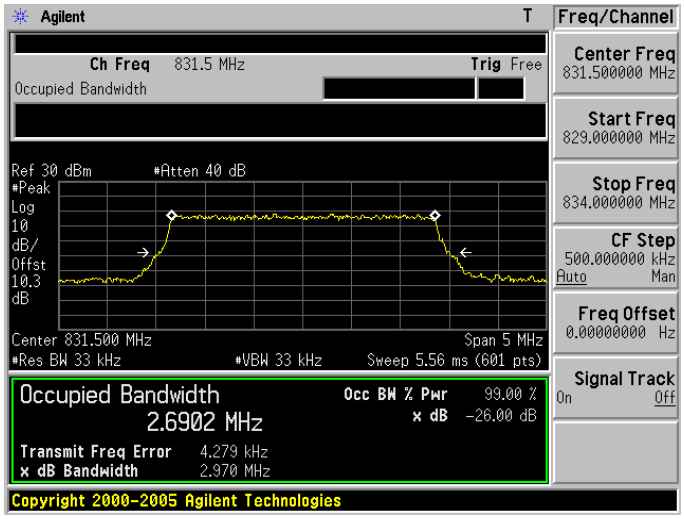
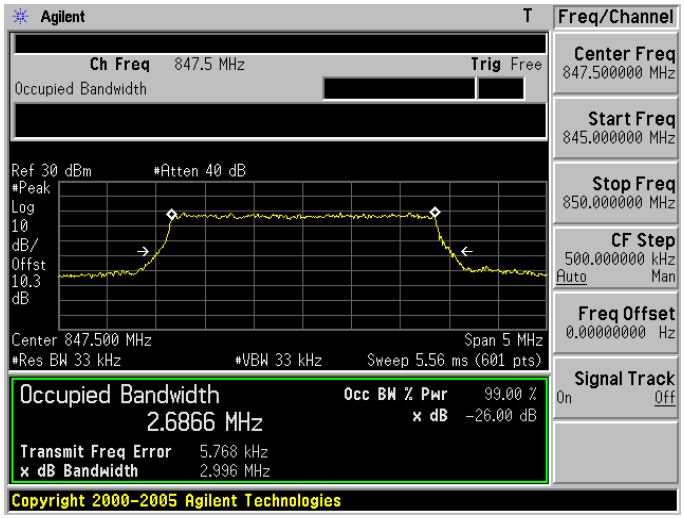
LTE Band 25 (Channel Bandwidth: 3 MHz) _ 16QAM	
1851.5 MHz	
1882.5 MHz	
1913.5 MHz	

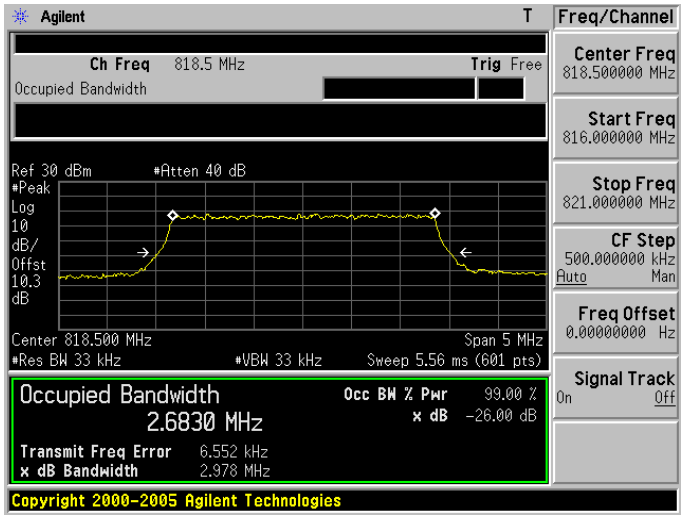
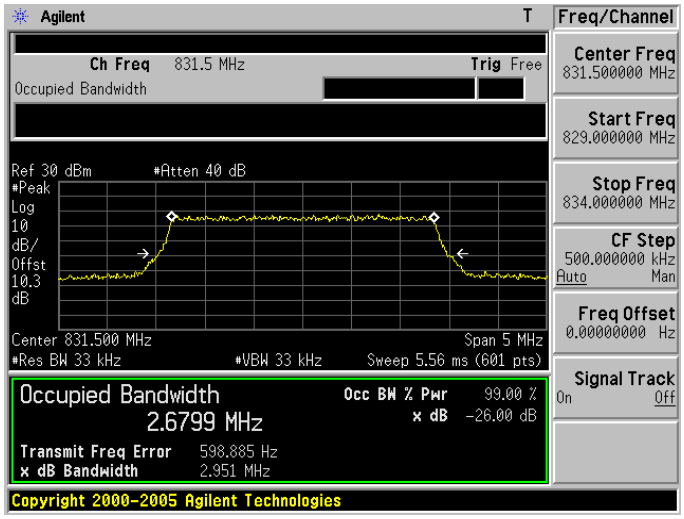
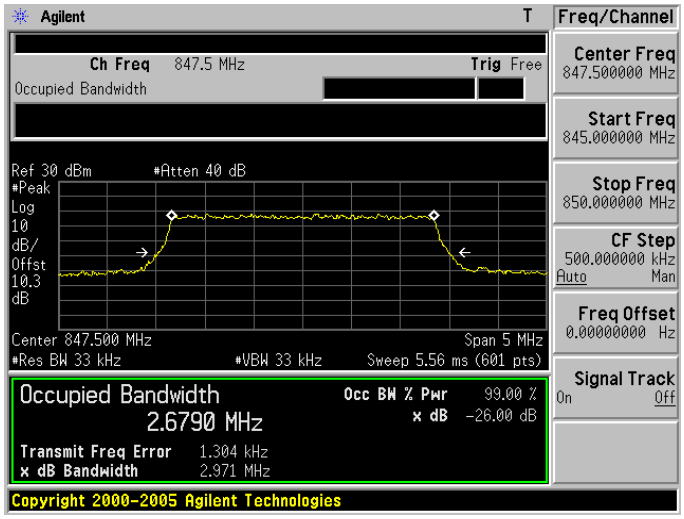
LTE Band 25 (Channel Bandwidth: 5 MHz) _ QPSK	
1852.5 MHz	
1882.5 MHz	
1912.5 MHz	

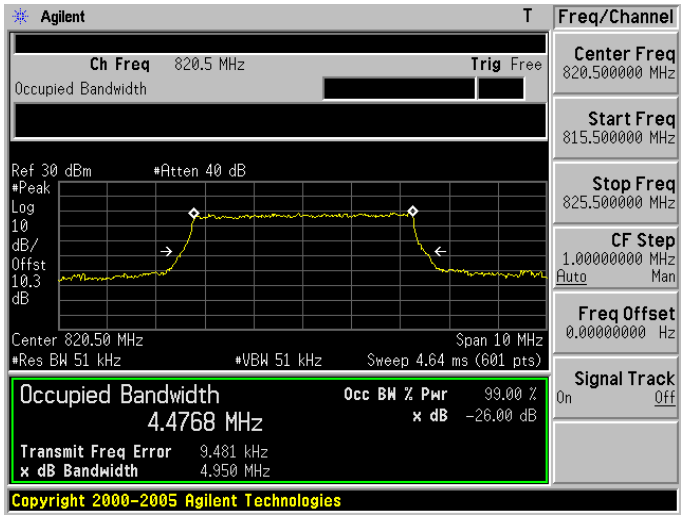
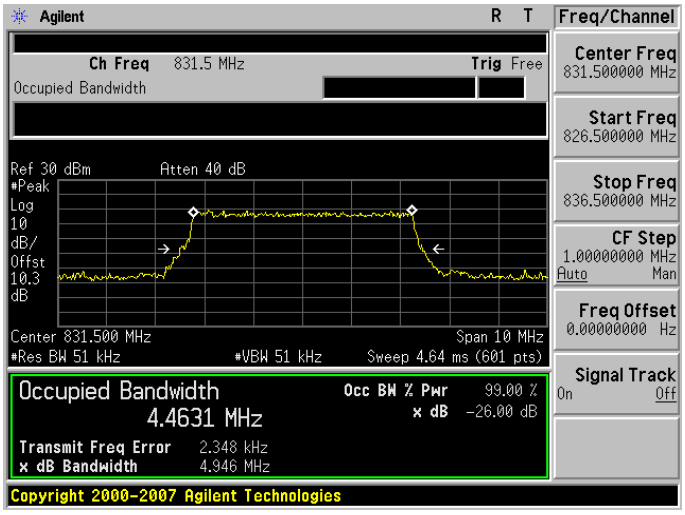
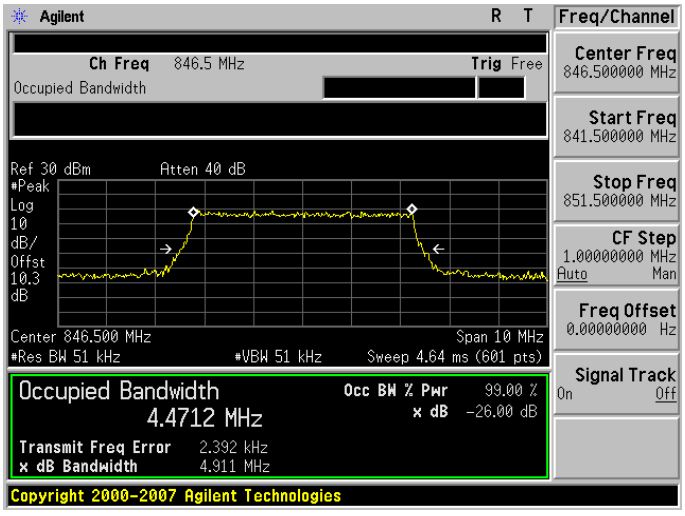
LTE Band 25 (Channel Bandwidth: 5 MHz) _ 16QAM	
1852.5 MHz	
1882.5 MHz	
1912.5 MHz	

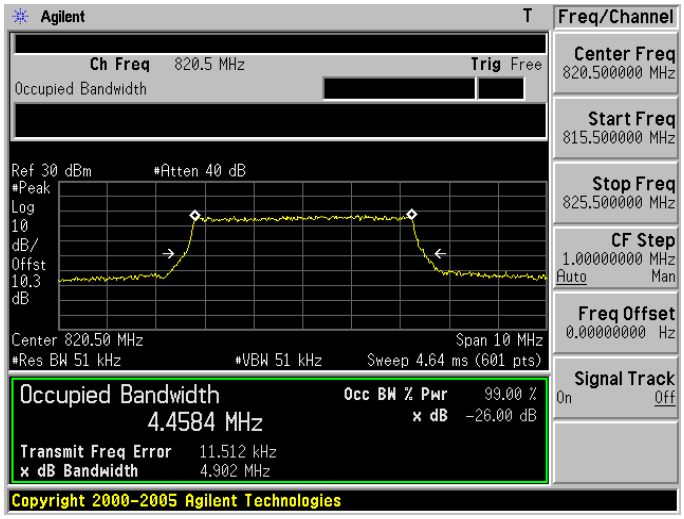
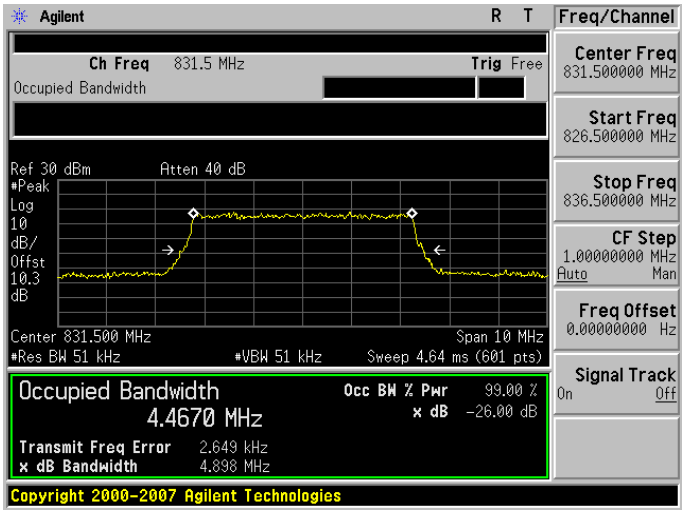
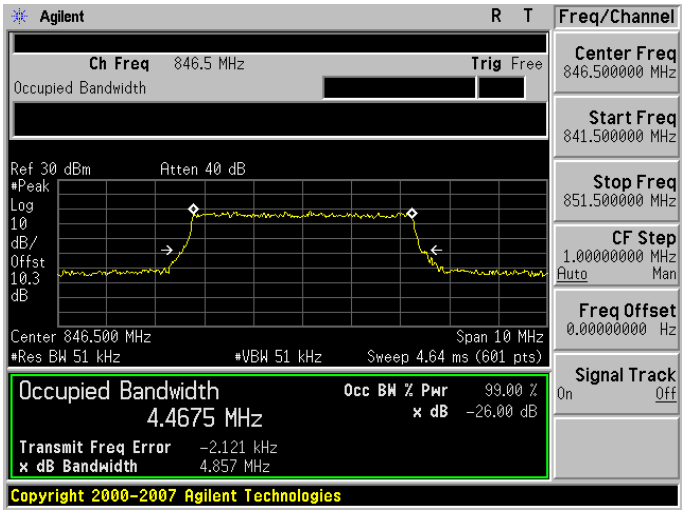
LTE Band 25 (Channel Bandwidth: 10 MHz) _ QPSK	
1855.0 MHz	
1882.5 MHz	
1910.0 MHz	

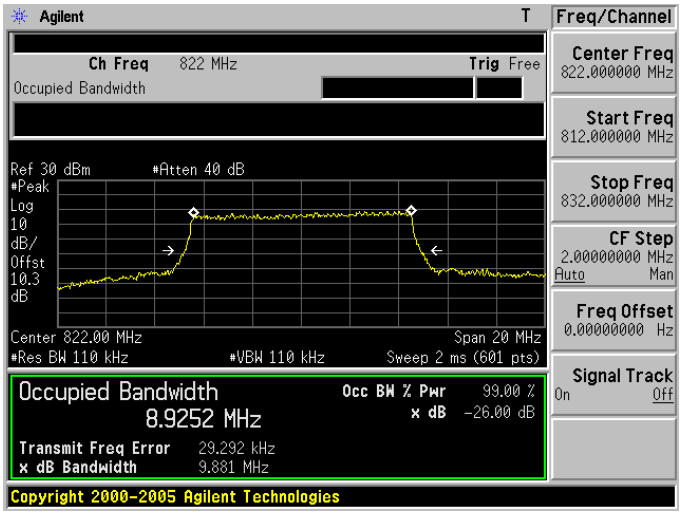
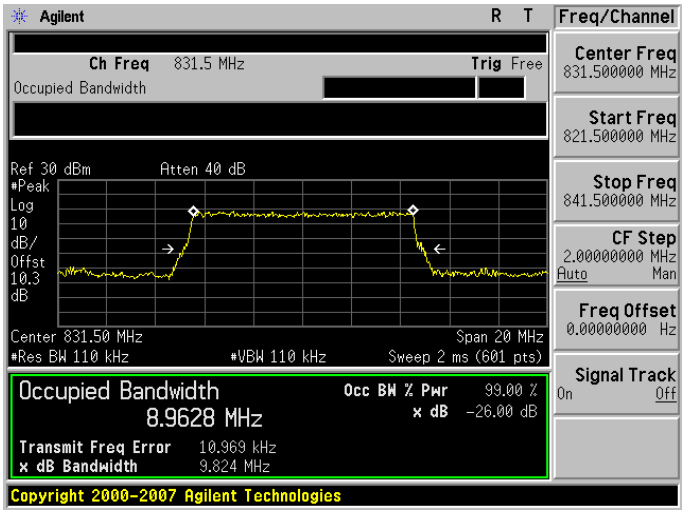
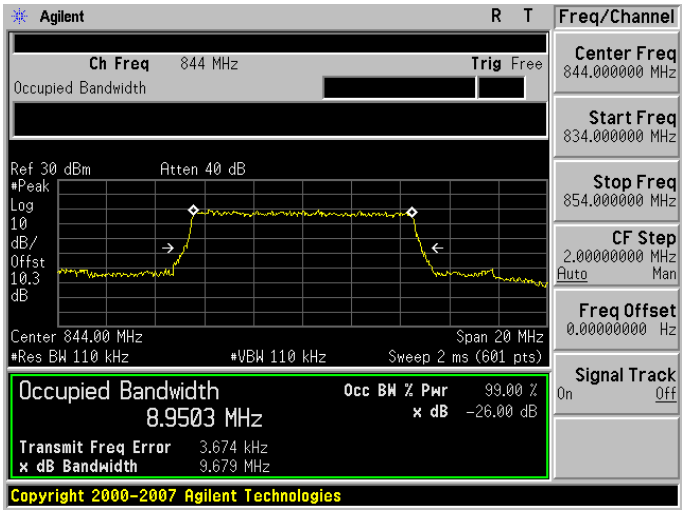
LTE Band 25 (Channel Bandwidth: 10 MHz) _ 16QAM	
1855.0 MHz	
1882.5 MHz	
1910.0 MHz	

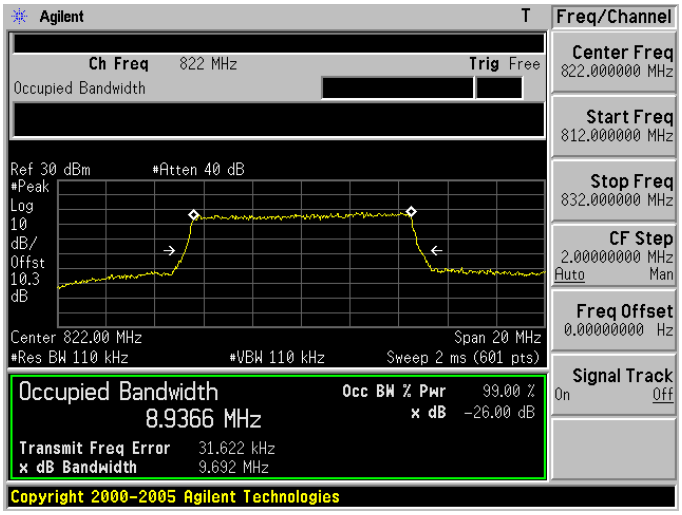
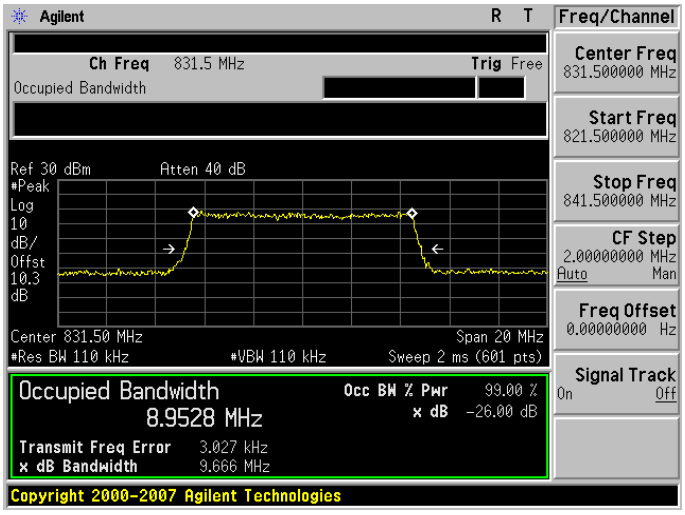
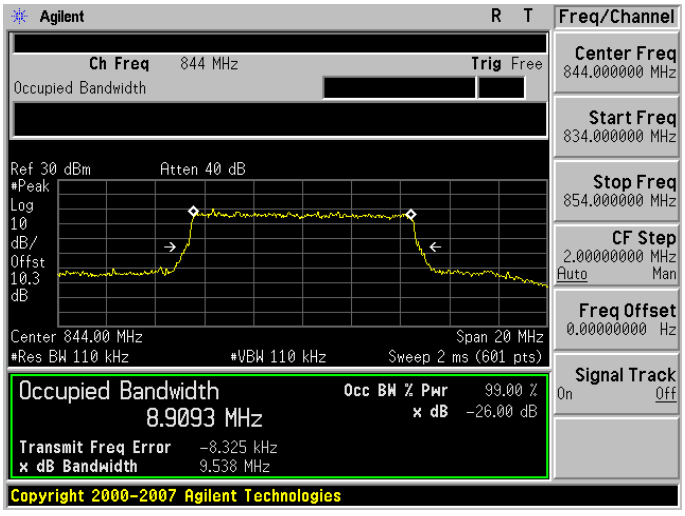
LTE Band 26 (Channel Bandwidth: 3 MHz) _ QPSK	
818.5 MHz	
831.5 MHz	
847.5 MHz	

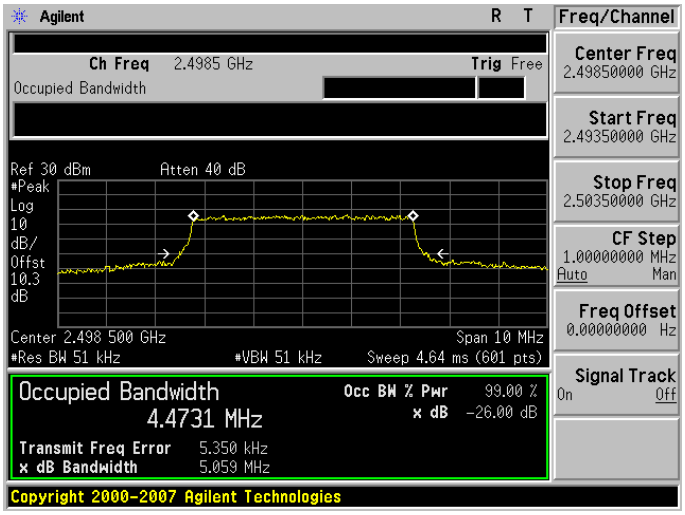
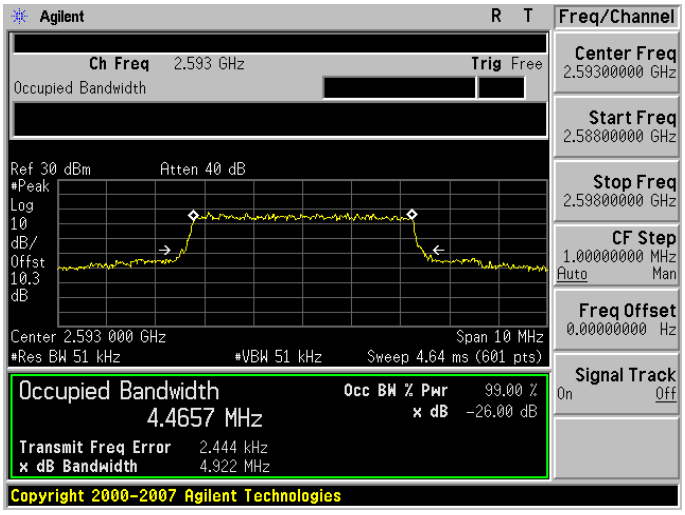
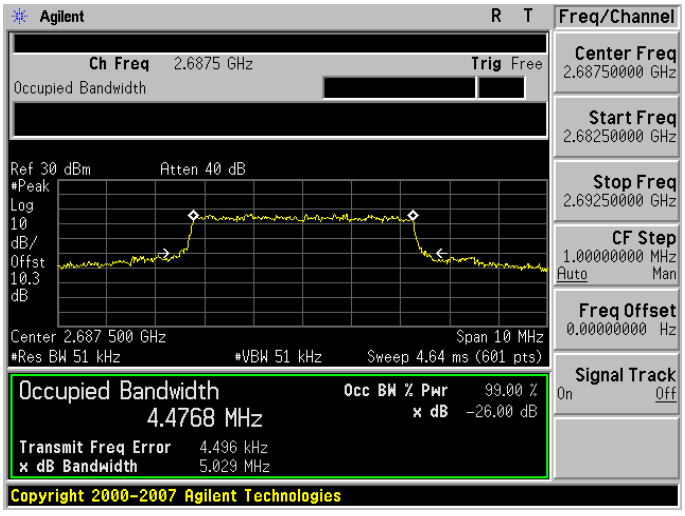
LTE Band 26 (Channel Bandwidth: 3 MHz) _ 16QAM	
818.5 MHz	
831.5 MHz	
847.5 MHz	

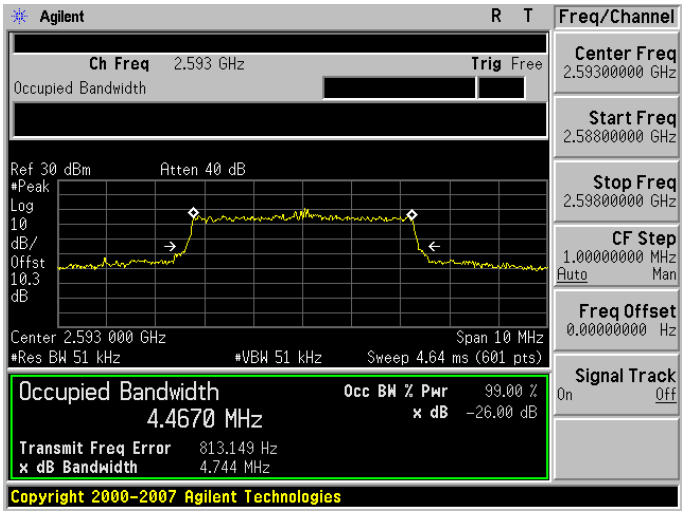
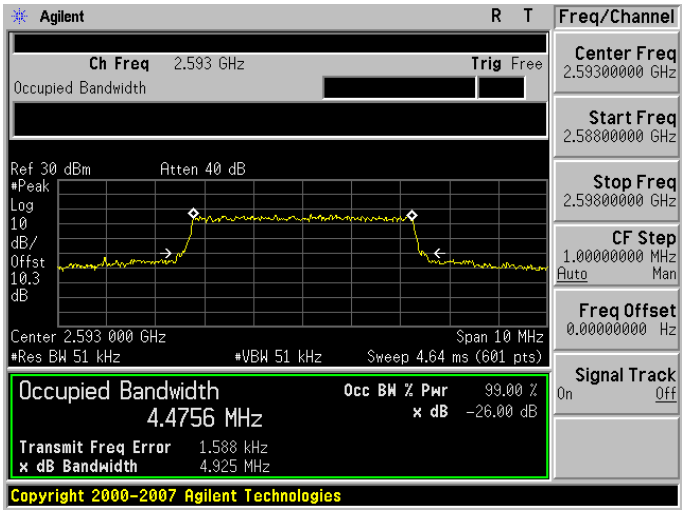
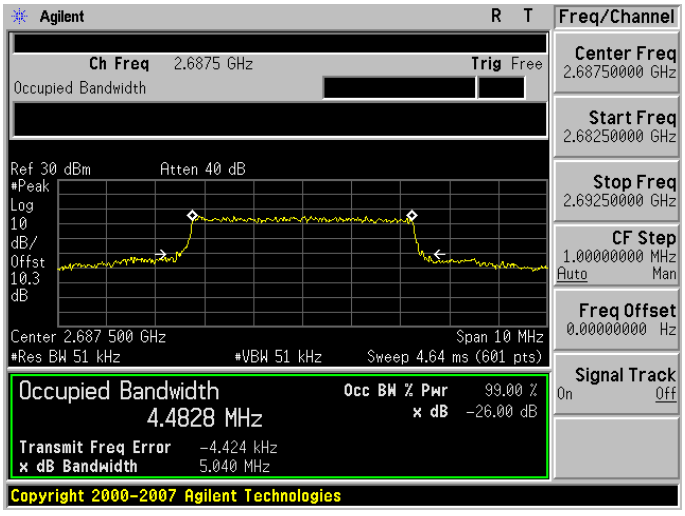
LTE Band 26 (Channel Bandwidth: 5 MHz) _ QPSK	
820.5 MHz	
831.5 MHz	
846.5 MHz	

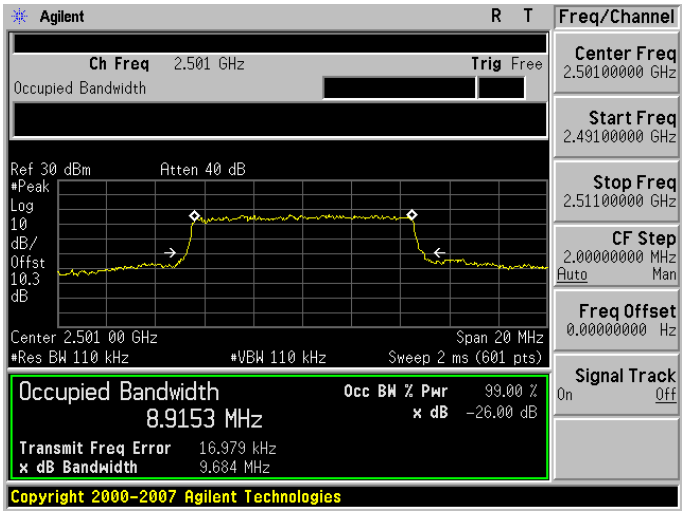
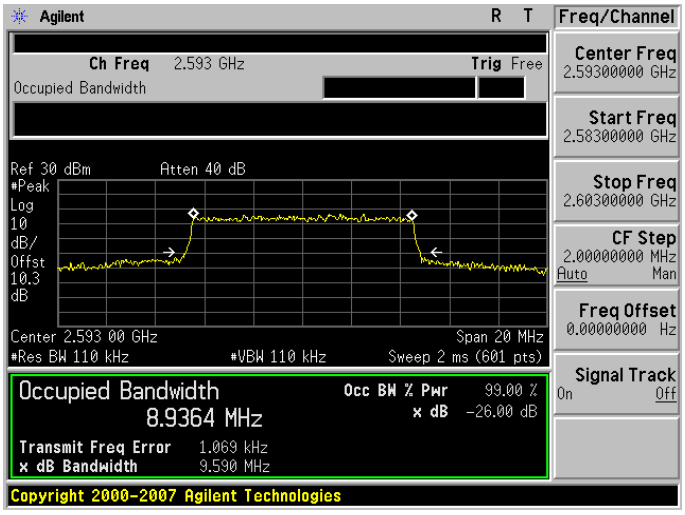
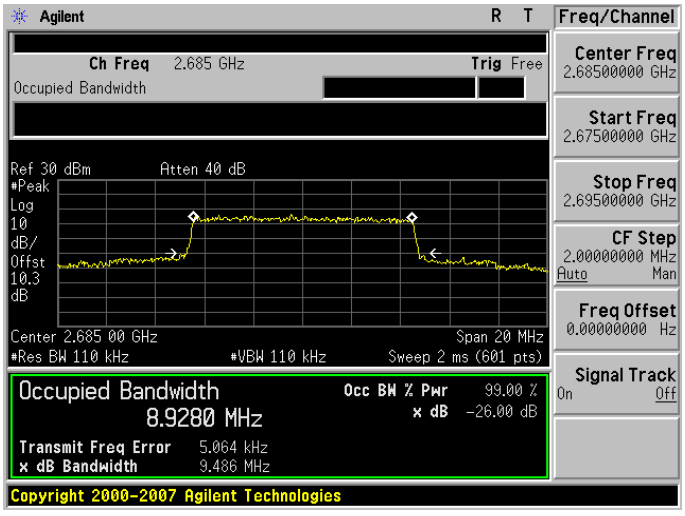
LTE Band 26 (Channel Bandwidth: 5 MHz) _ 16QAM	
820.5 MHz	
831.5 MHz	
846.5 MHz	

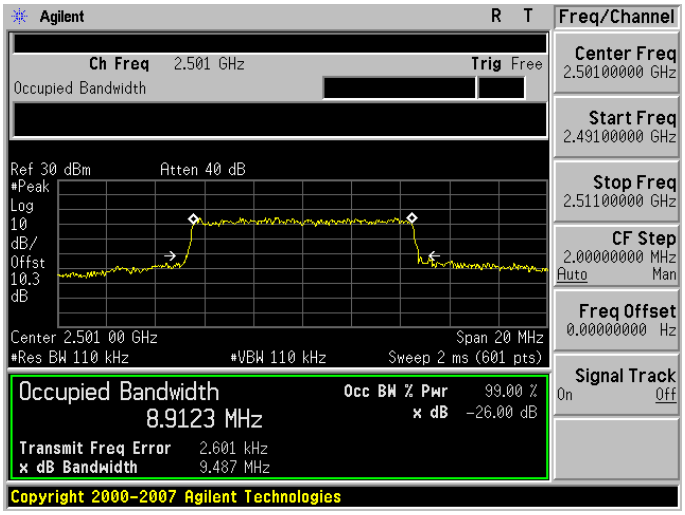
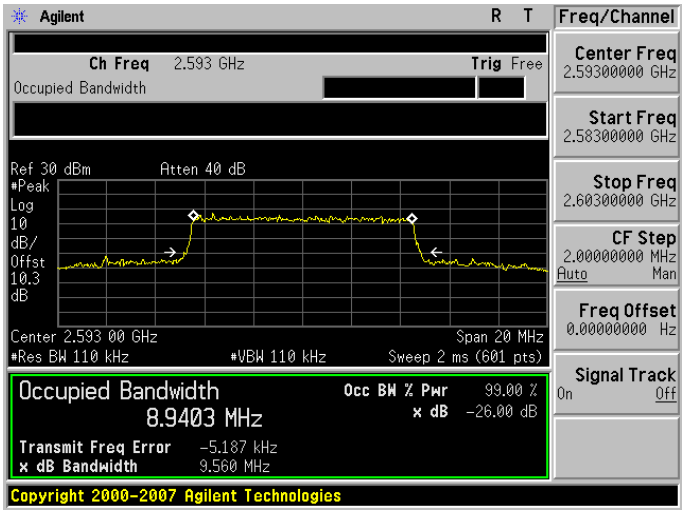
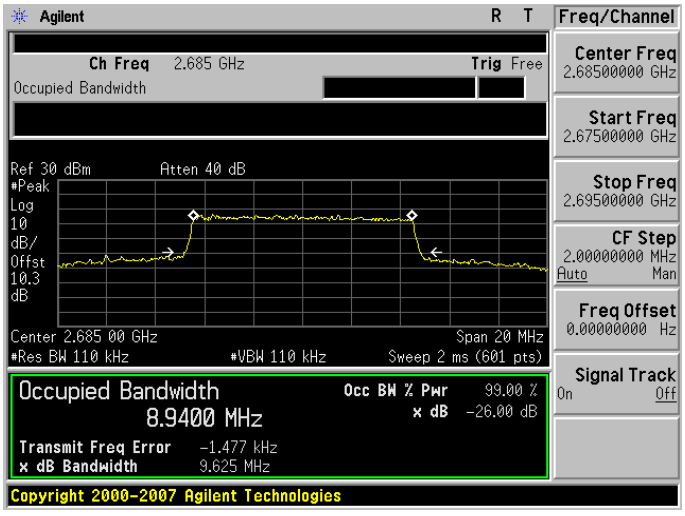
LTE Band 26 (Channel Bandwidth: 10 MHz) _ QPSK	
822.0 MHz	
831.5 MHz	
844.0 MHz	

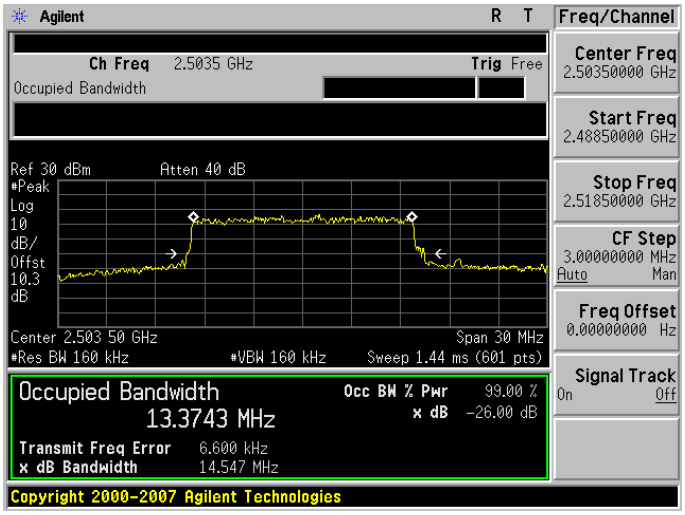
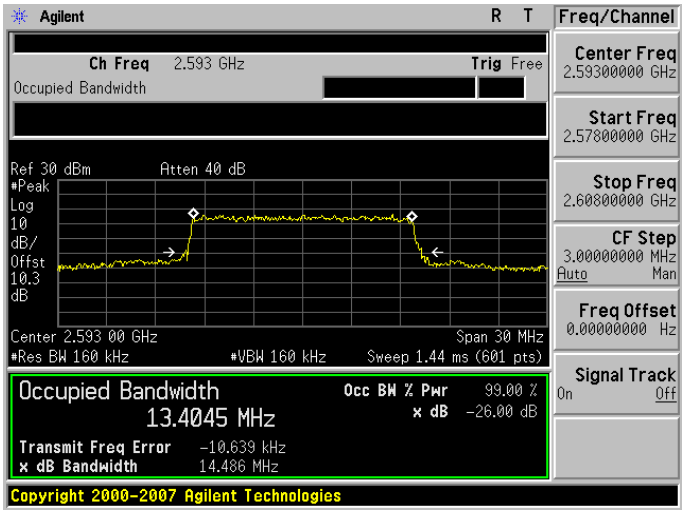
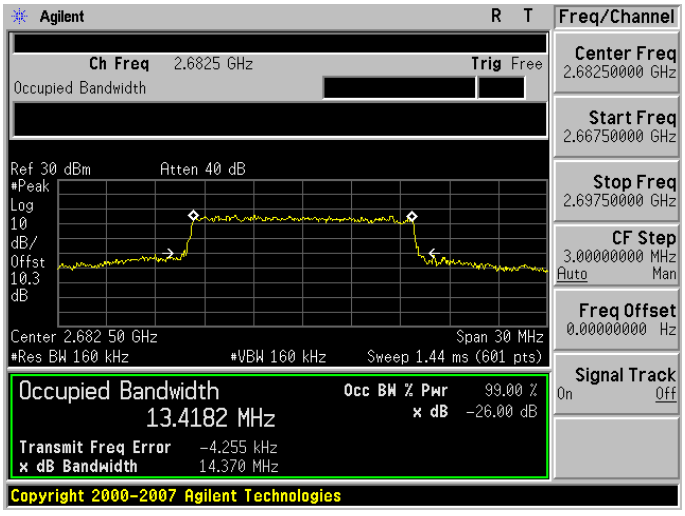
LTE Band 26 (Channel Bandwidth: 10 MHz) _ 16QAM	
822.0 MHz	
831.5 MHz	
844.0 MHz	

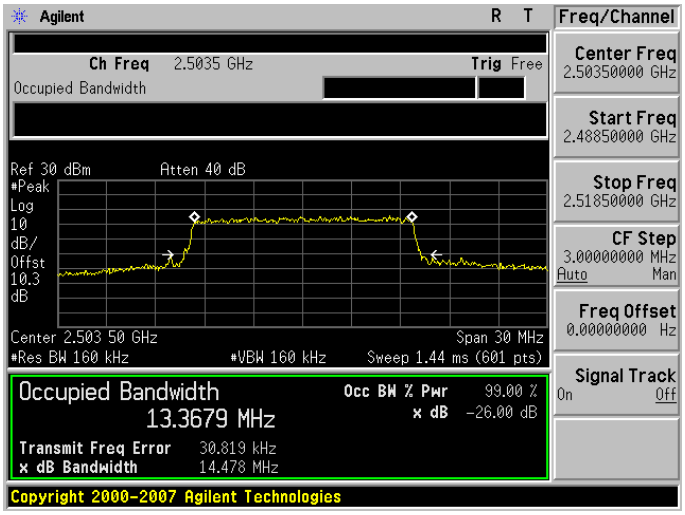
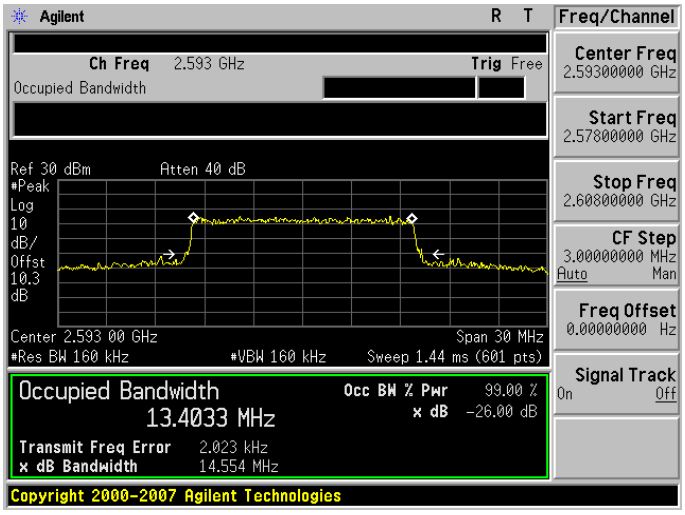
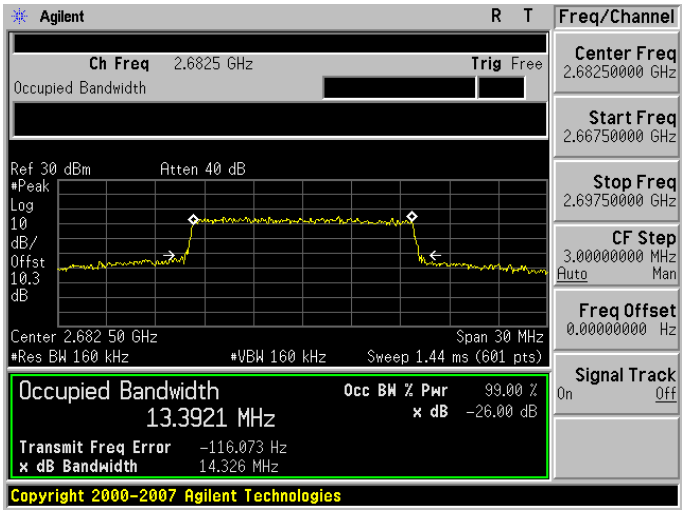
LTE Band 41 (Channel Bandwidth: 5 MHz) _ QPSK	
2498.5 MHz	
2593.0 MHz	
2687.5 MHz	

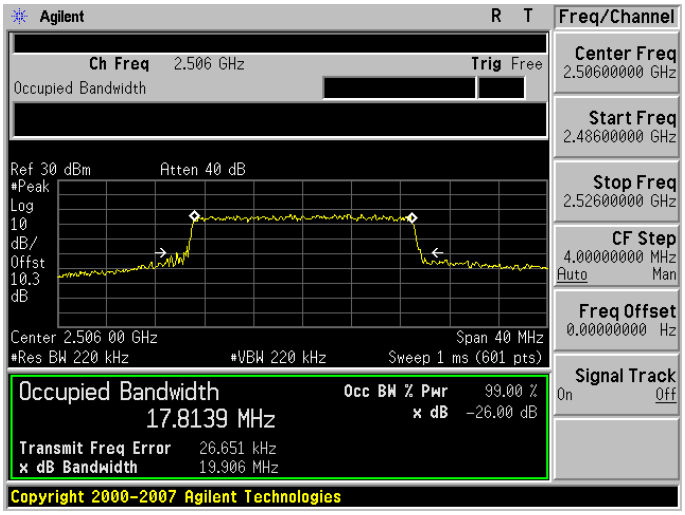
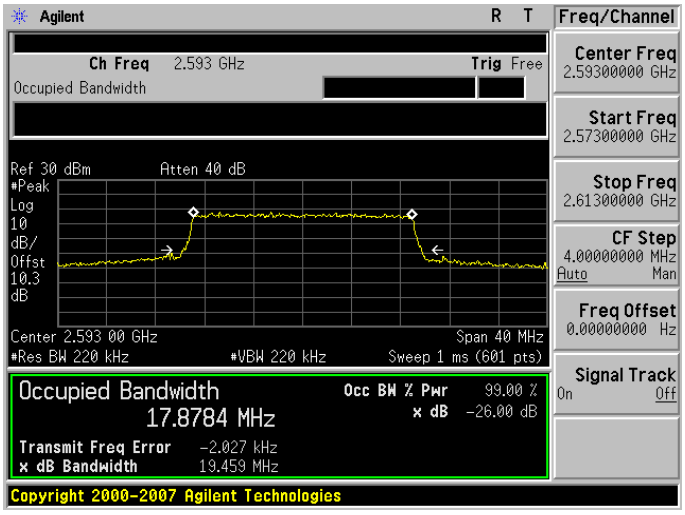
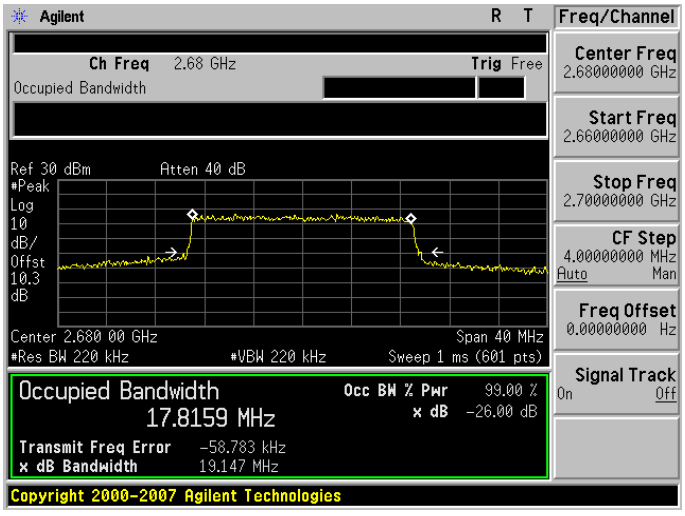
LTE Band 41 (Channel Bandwidth: 5 MHz) _ 16QAM	
2498.5 MHz	
2593.0 MHz	
2687.5 MHz	

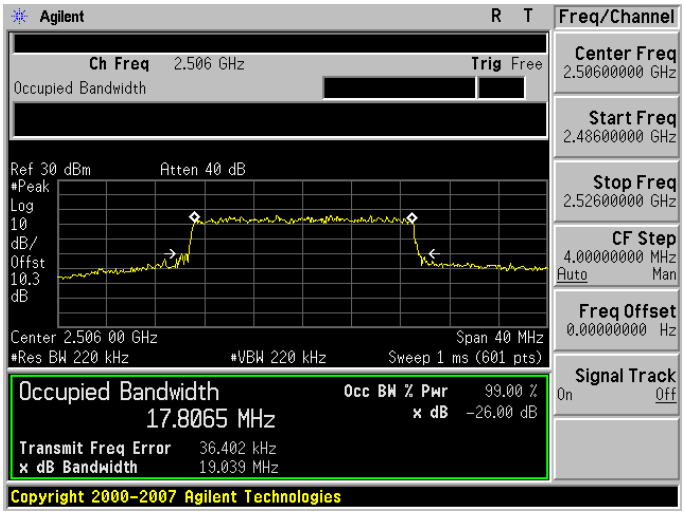
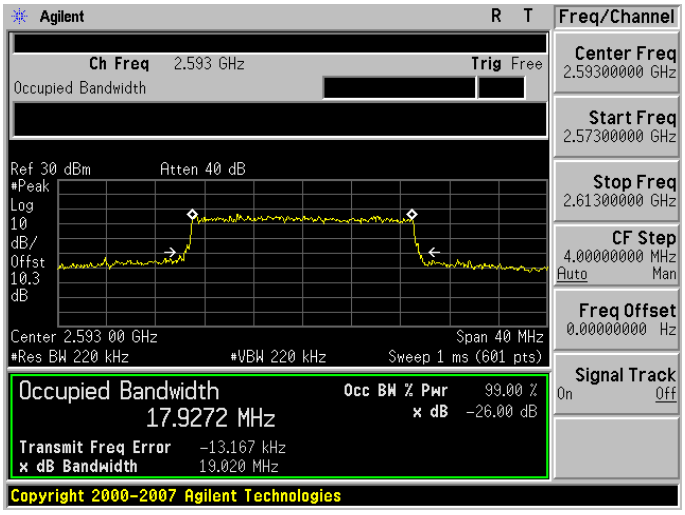
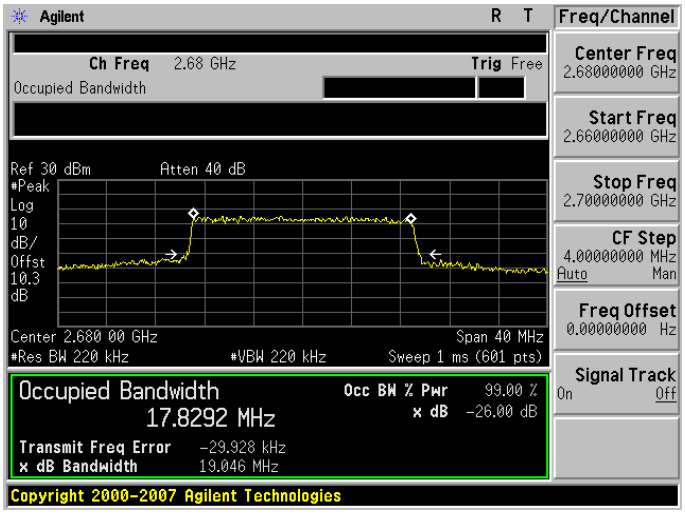
LTE Band 41 (Channel Bandwidth: 10 MHz) _ QPSK	
2501.0 MHz	
2593.0 MHz	
2685.0 MHz	

LTE Band 41 (Channel Bandwidth: 10 MHz) _ 16QAM	
2501.0 MHz	
2593.0 MHz	
2685.0 MHz	

LTE Band 41 (Channel Bandwidth: 15 MHz) _ QPSK	
2503.5 MHz	
2593.0 MHz	
2682.5 MHz	

LTE Band 41 (Channel Bandwidth: 15 MHz) _ 16QAM	
2503.5 MHz	
2593.0 MHz	
2682.5 MHz	

LTE Band 41 (Channel Bandwidth: 20 MHz) _ QPSK	
2506.0 MHz	
2593.0 MHz	
2680.0 MHz	

LTE Band 41 (Channel Bandwidth: 20 MHz) _ 16QAM	
2506.0 MHz	
2593.0 MHz	
2680.0 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.

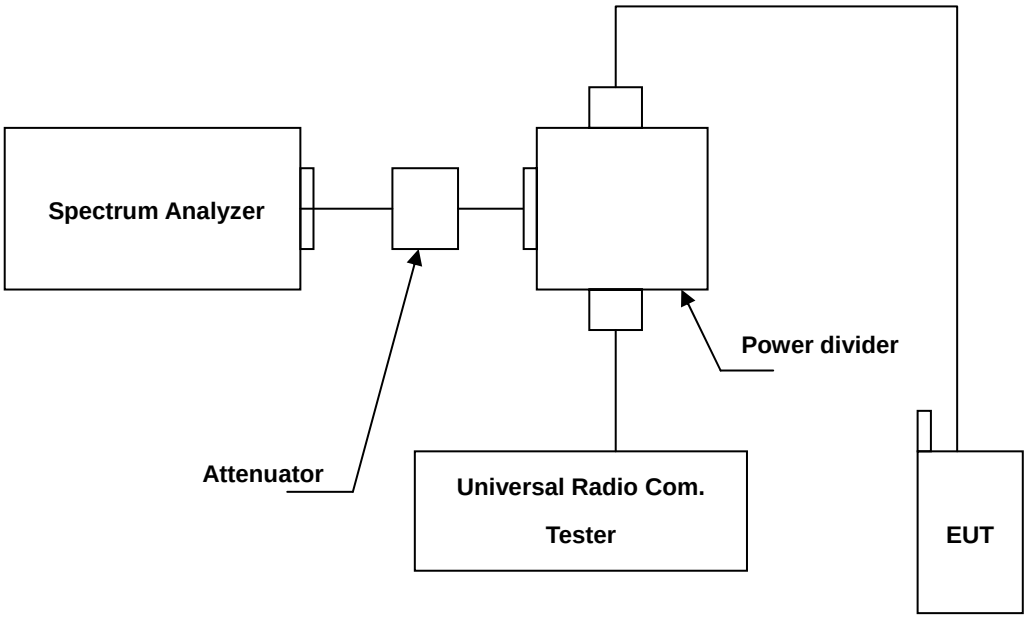
6.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(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

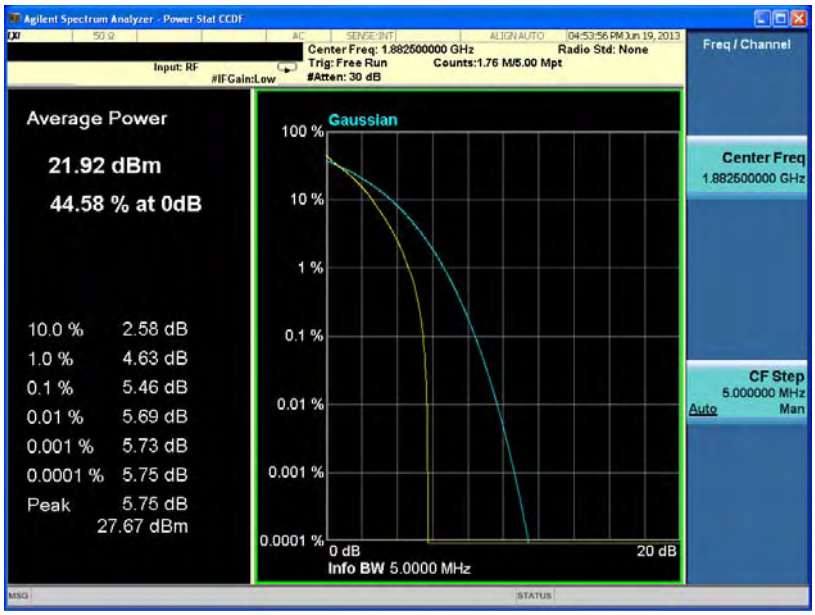
Model Number	AirCard 771S		
Test Item	Peak to Average Ratio		
Date of Test	03/01/2013, 06/19/2013	Test Site	TE05

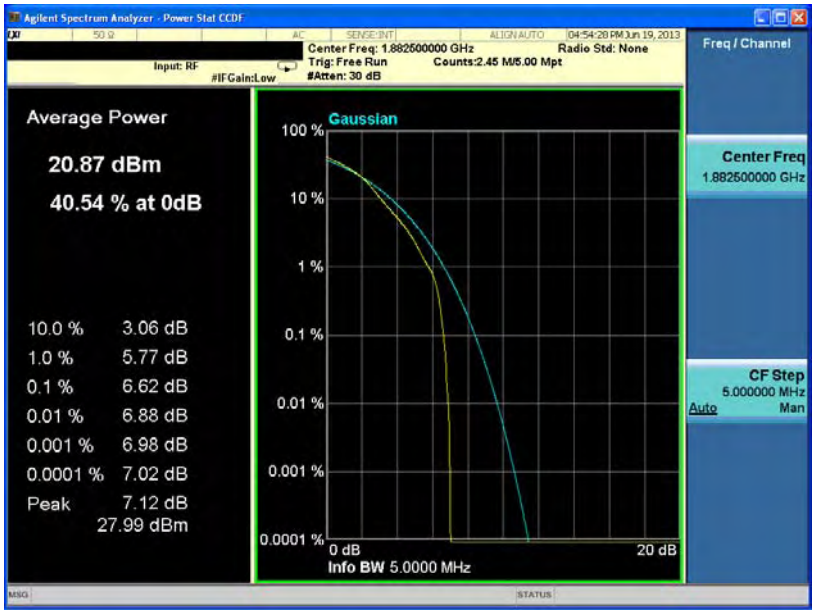
LTE Band 25				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
3 MHz	QPSK	1882.5	5.46	< 13
	16QAM	1882.5	6.62	< 13
5 MHz	QPSK	1882.5	5.85	< 13
	16QAM	1882.5	6.95	< 13
10 MHz	QPSK	1882.5	5.89	< 13
	16QAM	1882.5	6.24	< 13

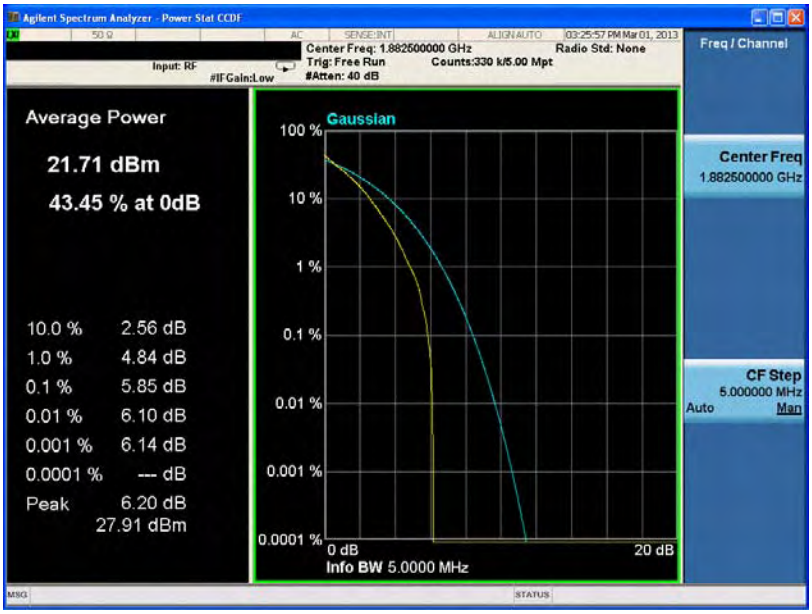
LTE Band 26				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
3 MHz	QPSK	831.5	4.98	< 13
	16QAM	831.5	6.07	< 13
5 MHz	QPSK	831.5	5.08	< 13
	16QAM	831.5	6.16	< 13
10 MHz	QPSK	831.5	4.98	< 13
	16QAM	831.5	6.08	< 13

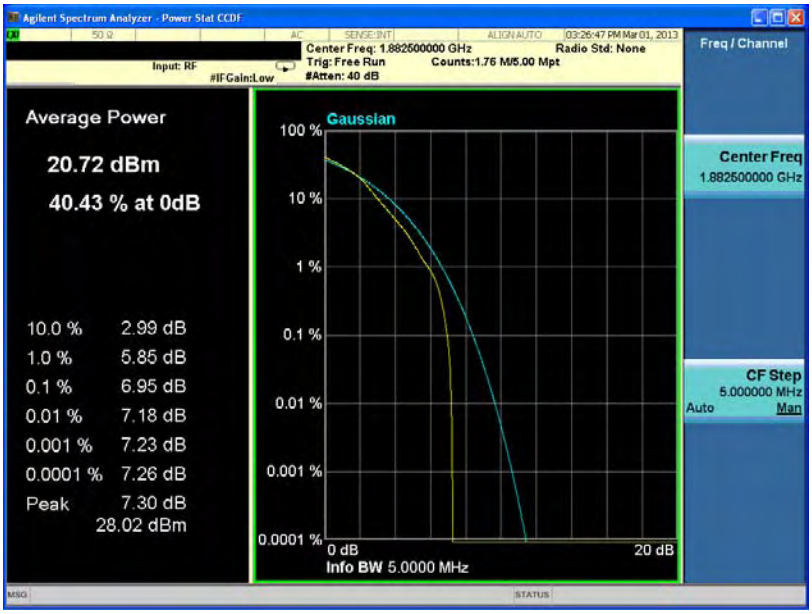
LTE Band 41				
Channel Bandwidth	Modulation	Frequency (MHz)	Peak to Average Ratio (dB)	Limit (dB)
5 MHz	QPSK	2593.0	4.98	< 13
	16QAM	2593.0	6.08	< 13
10 MHz	QPSK	2593.0	8.65	< 13
	16QAM	2593.0	9.54	< 13
15 MHz	QPSK	2593.0	9.25	< 13
	16QAM	2593.0	9.20	< 13
20 MHz	QPSK	2593.0	9.51	< 13
	16QAM	2593.0	10.09	< 13

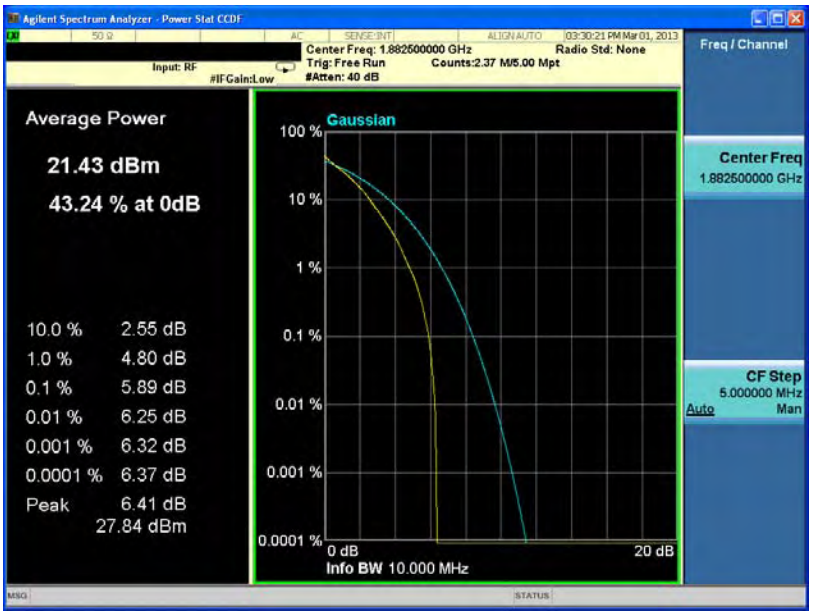
6.7. Test Graphs

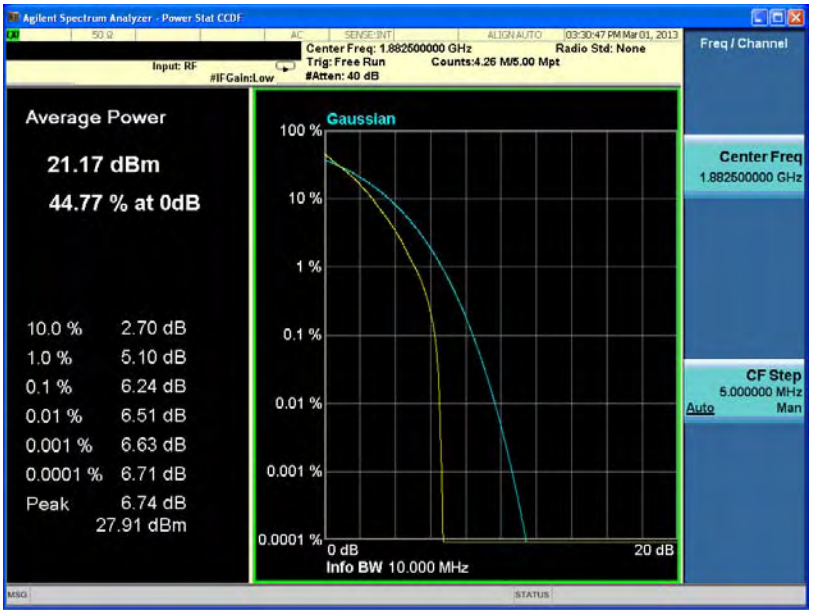
LTE Band 25 (Channel Bandwidth: 3 MHz) _ QPSK	
1882.5 MHz	

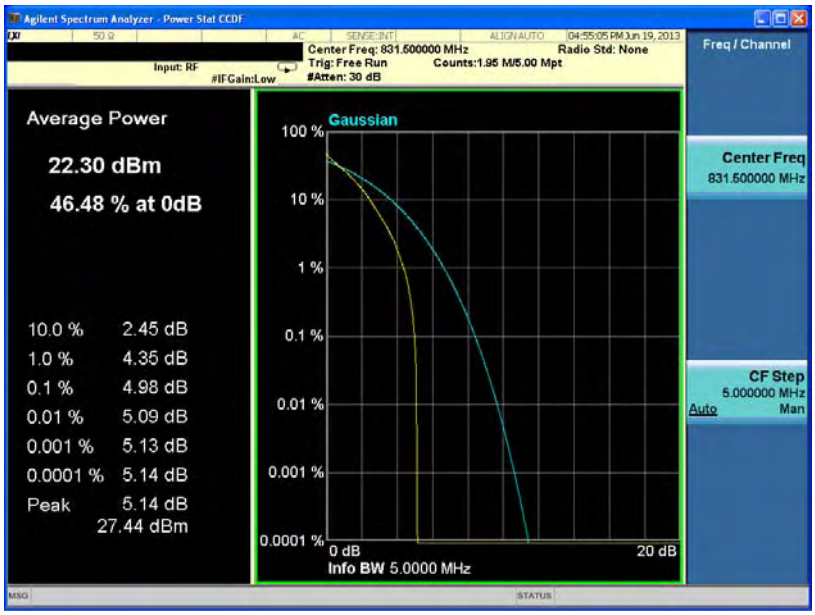
LTE Band 25 (Channel Bandwidth: 3 MHz) _ 16QAM	
1882.5 MHz	

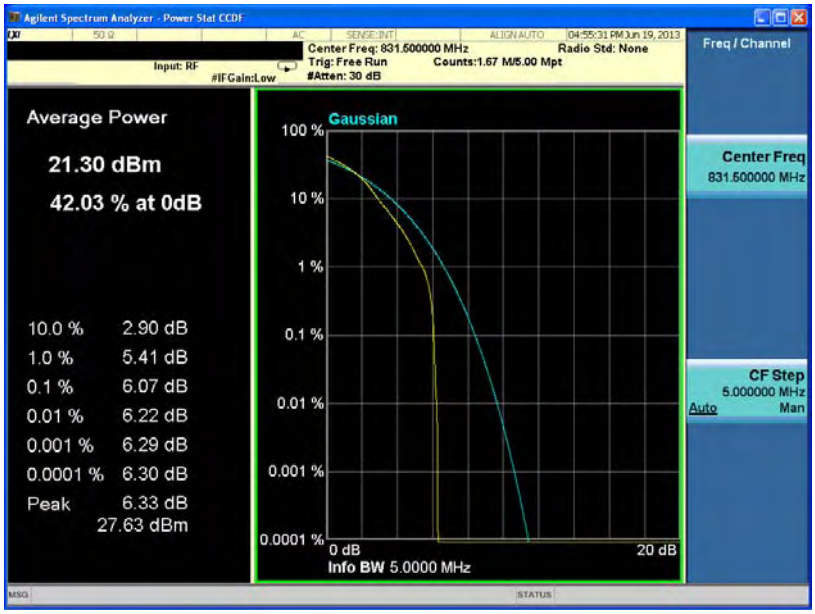
LTE Band 25 (Channel Bandwidth: 5 MHz) _ QPSK	
1882.5 MHz	

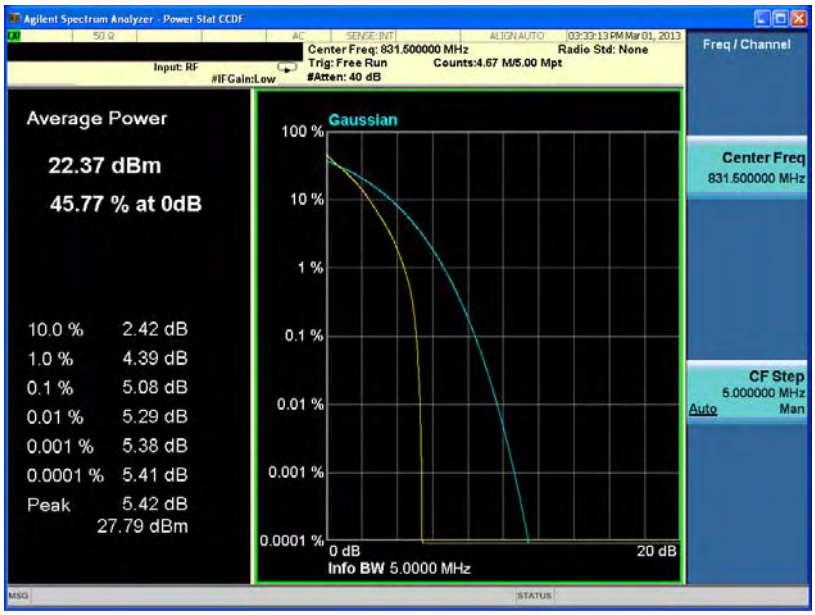
LTE Band 25 (Channel Bandwidth: 5 MHz) _ 16QAM	
1882.5 MHz	

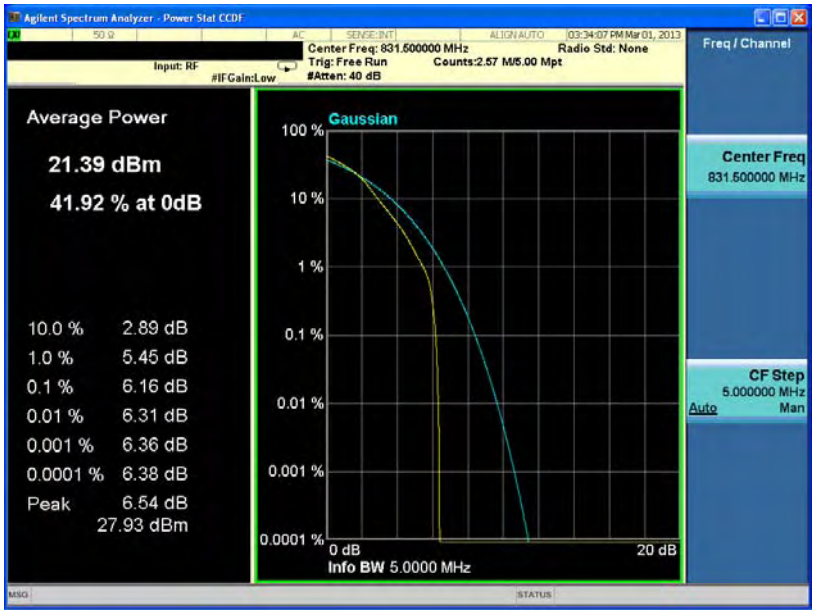
LTE Band 5 (Channel Bandwidth: 10 MHz) _ QPSK	
1882.5 MHz	

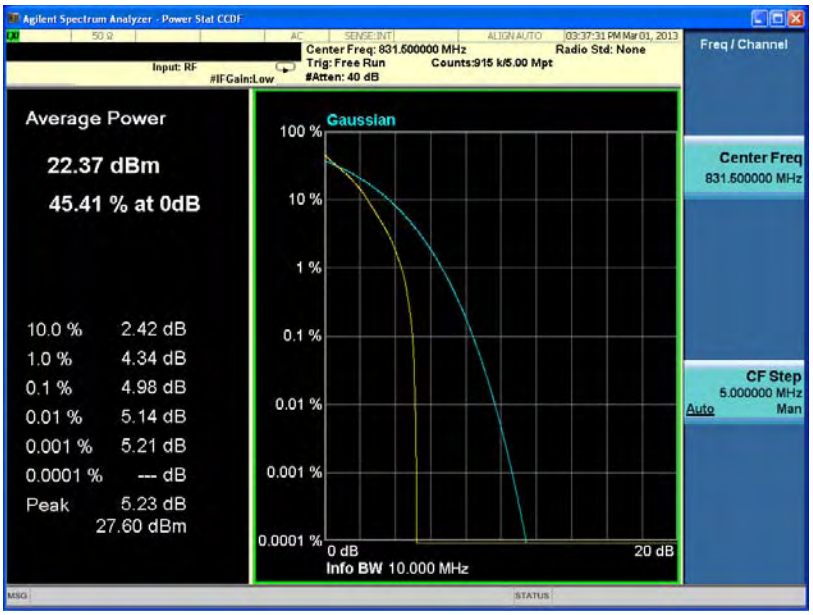
LTE Band 25 (Channel Bandwidth: 10 MHz) _ 16QAM	
1882.5 MHz	

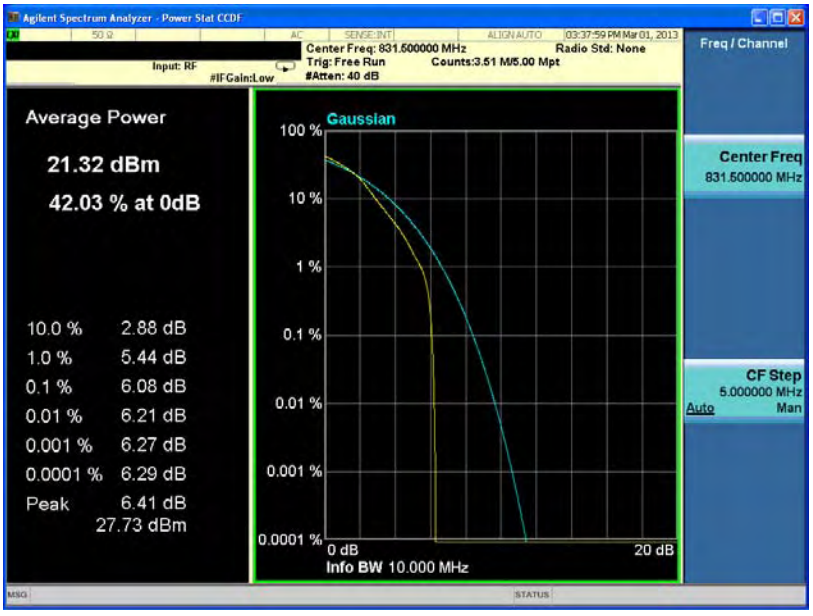
LTE Band 26 (Channel Bandwidth: 3 MHz) _ QPSK	
831.5 MHz	

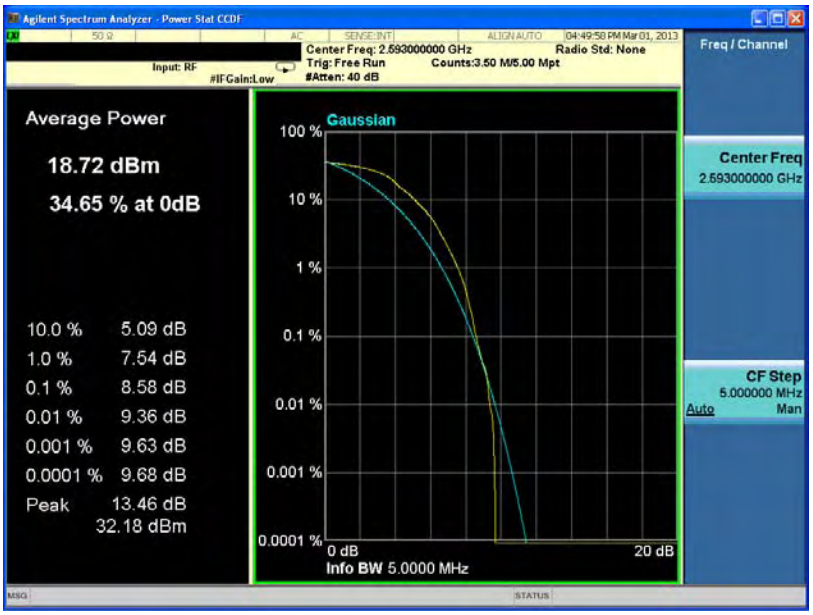
LTE Band 26 (Channel Bandwidth: 3 MHz) _ 16QAM	
831.5 MHz	

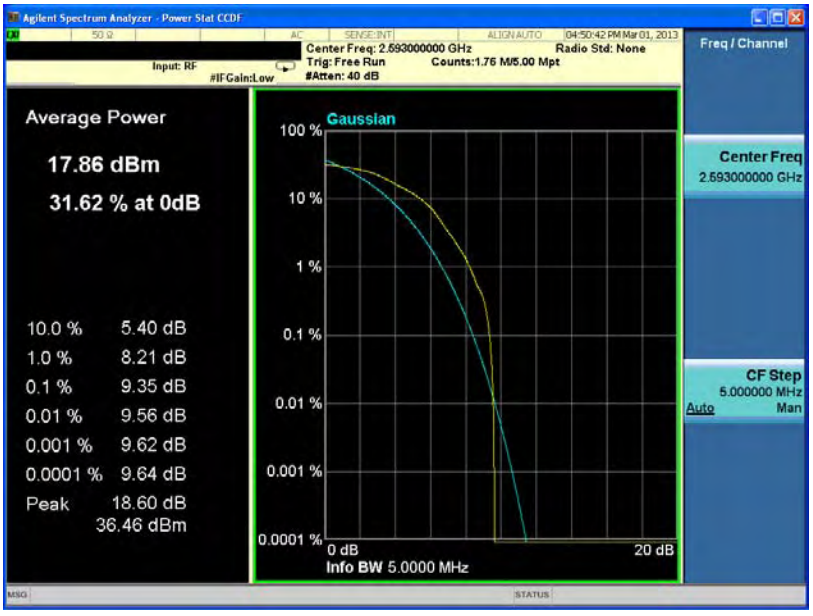
LTE Band 26 (Channel Bandwidth: 5 MHz) _ QPSK	
831.5 MHz	

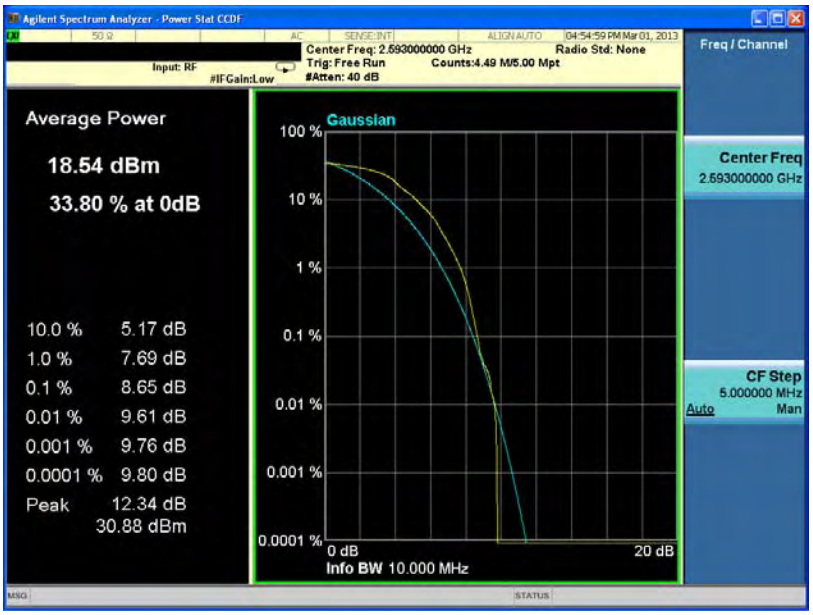
LTE Band 26 (Channel Bandwidth: 5 MHz) _ 16QAM	
831.5 MHz	

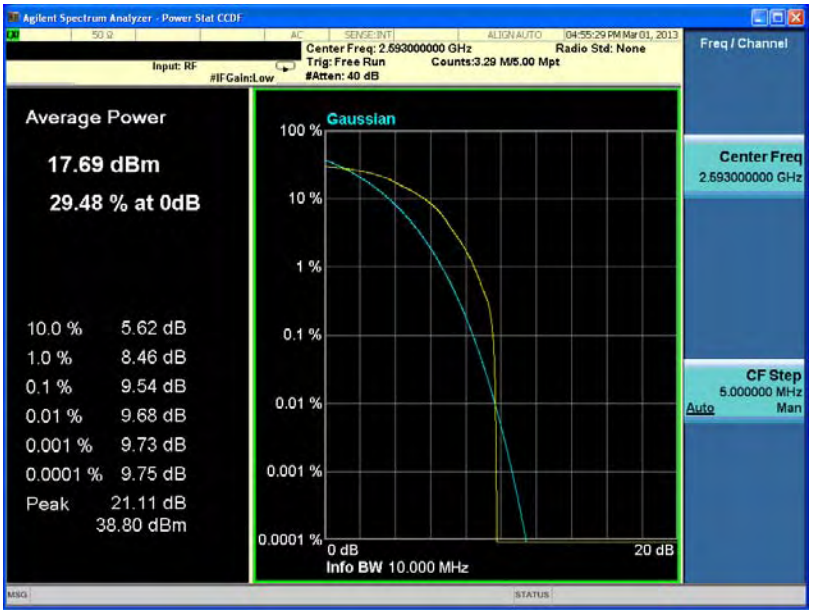
LTE Band 26 (Channel Bandwidth: 10 MHz) _ QPSK	
831.5 MHz	

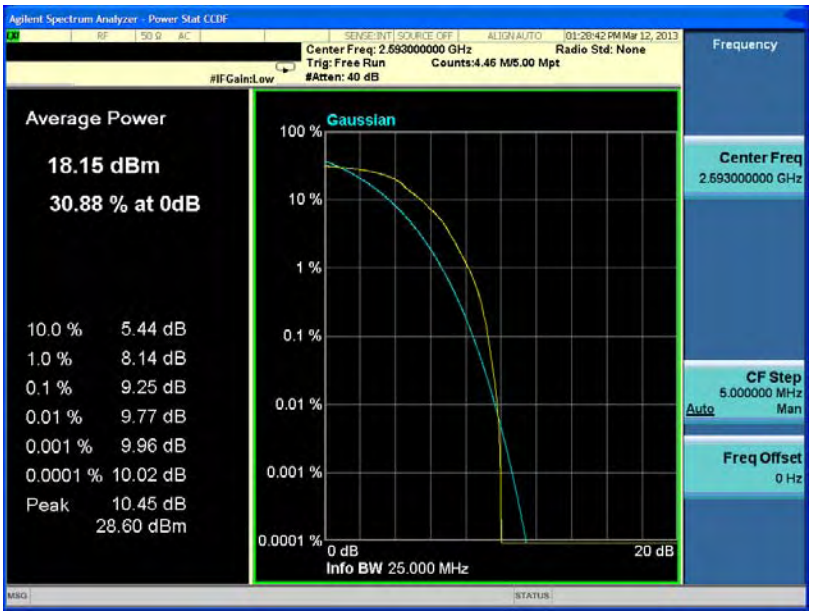
LTE Band 26 (Channel Bandwidth: 10 MHz) _ 16QAM	
831.5 MHz	

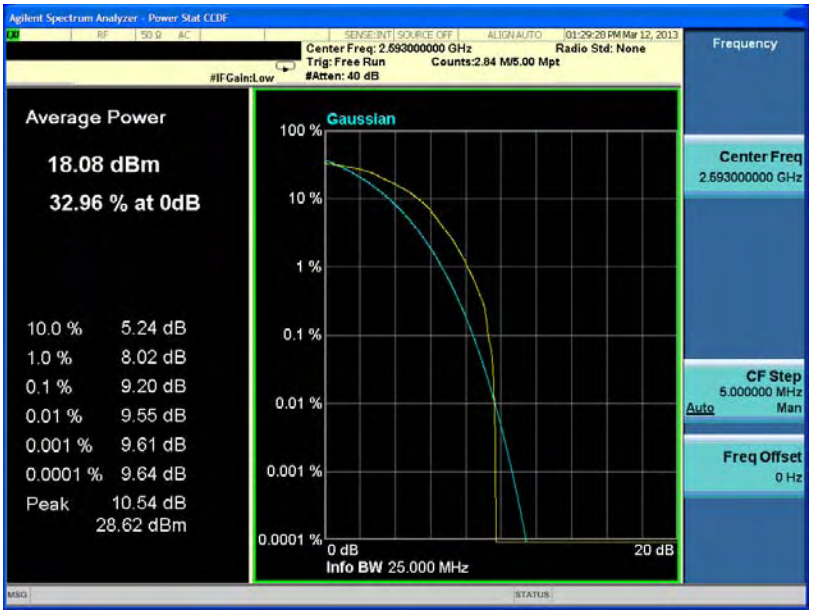
LTE Band 41 (Channel Bandwidth: 5 MHz) _ QPSK	
2593.0 MHz	

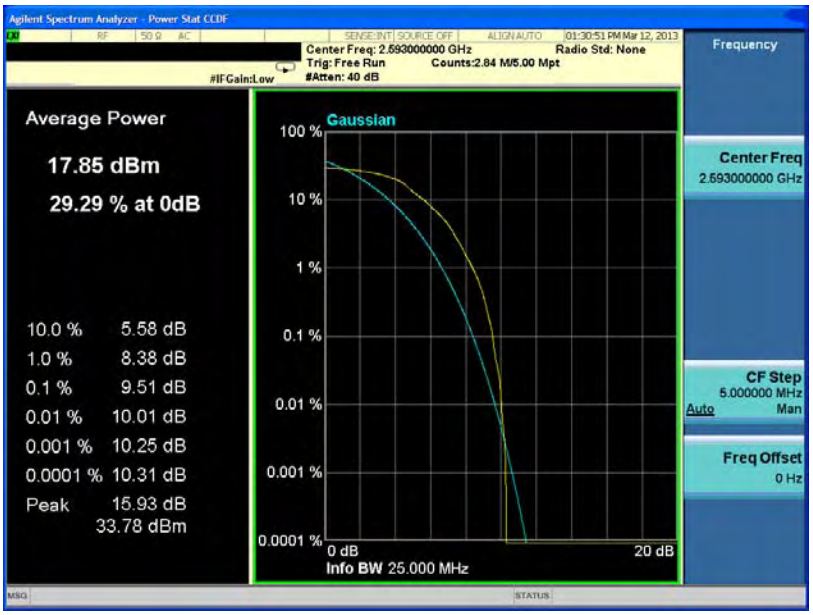
LTE Band 41 (Channel Bandwidth: 5 MHz) _ 16QAM	
2593.0 MHz	

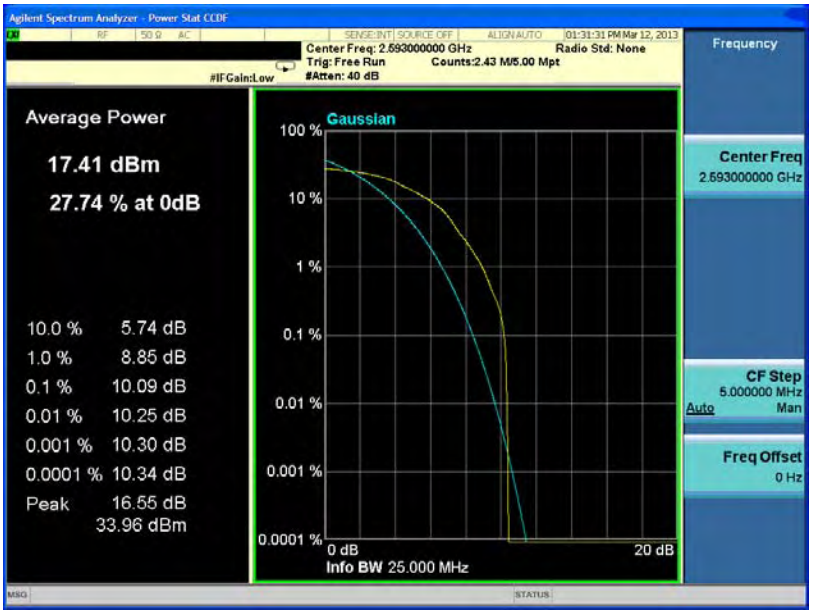
LTE Band 41 (Channel Bandwidth: 10 MHz) _ QPSK	
2593.0 MHz	

LTE Band 41 (Channel Bandwidth: 10 MHz) _ 16QAM	
2593.0 MHz	

LTE Band 41 (Channel Bandwidth: 15 MHz) _ QPSK	
2593.0 MHz	

LTE Band 41 (Channel Bandwidth: 15 MHz) _ 16QAM	
2593.0 MHz	

LTE Band 41 (Channel Bandwidth: 20 MHz) _ QPSK	
2593.0 MHz	

LTE Band 41 (Channel Bandwidth: 20 MHz) _ 16QAM	
2593.0 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 + 10 log (P) dB.

§27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 43 + 10 log (P) dB at the channel edge and 55 + 10 log (P) dB at 5.5 megahertz from the channel edges. (Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

Band edge compliance with Part 27 is demonstrated by two plots for each measurement. The first uses a measurement bandwidth >= 1% of the emission bandwidth to show compliance at the channel edge with the -13dBm limit (required attenuation of -43log(P)). The second plots under LTE BAND 41EMISSION MASK uses a measurement bandwidth of 1MHz to show compliance with the -13dBm limit 1MHz or more from the channel edge and -25dBm limit for signals 5.5MHz and more form the channel edge.

The Emission Mask Limit:

§90.691

(a)(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}

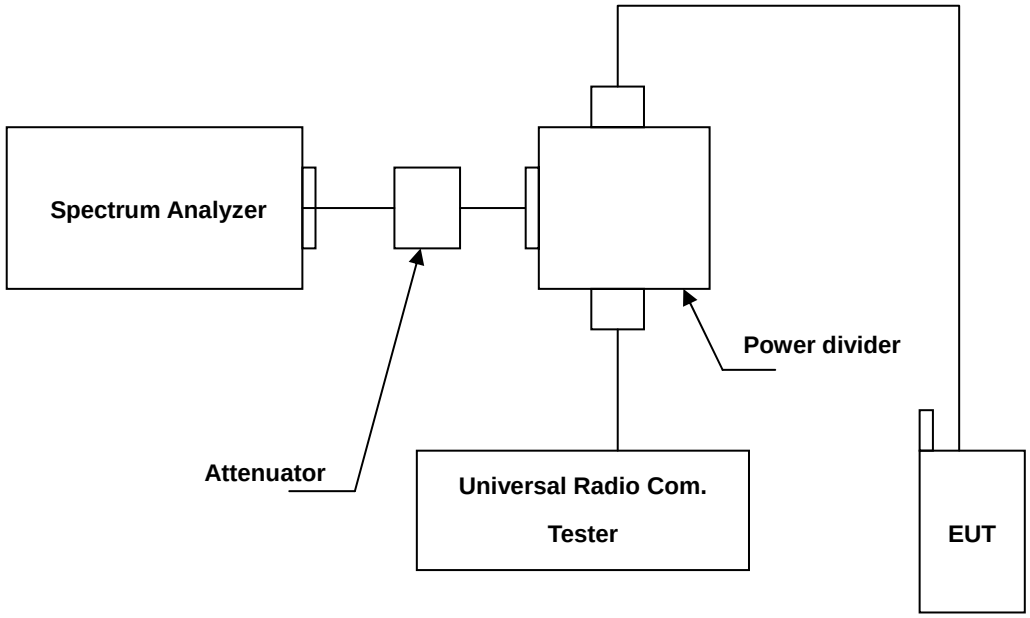
7.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(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 R&S 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 7.2 dB in the transmitted path track.

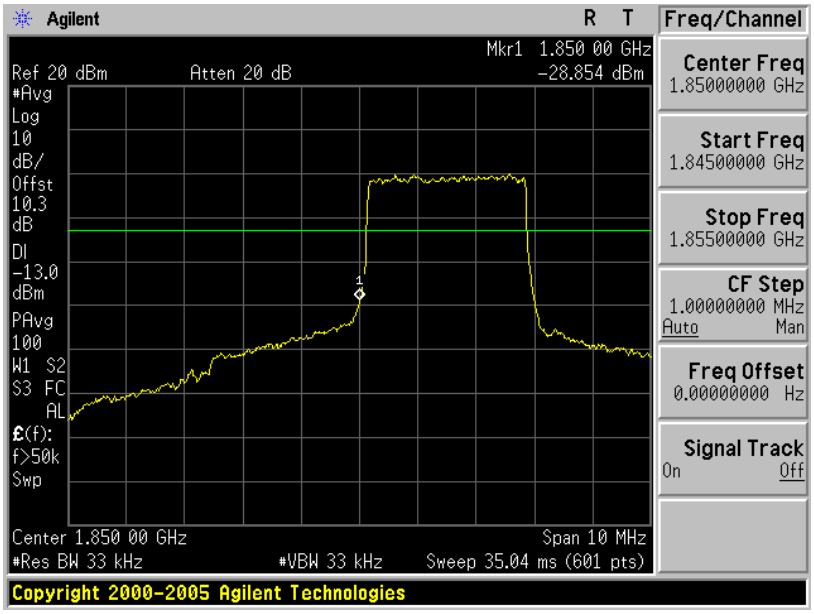
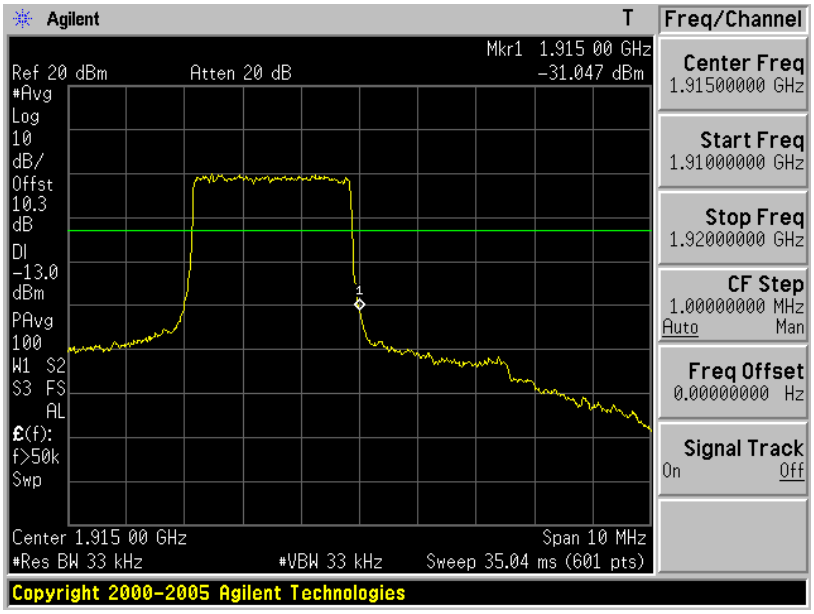
c. The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.

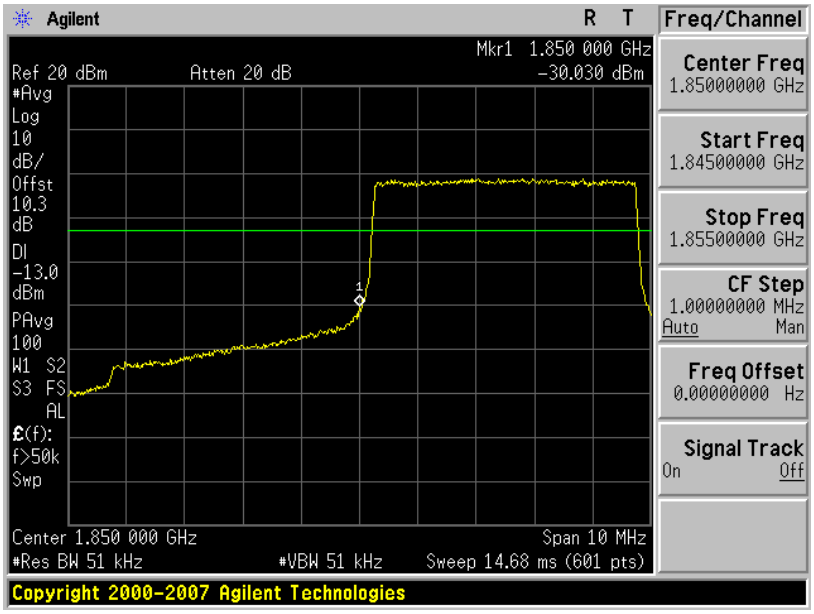
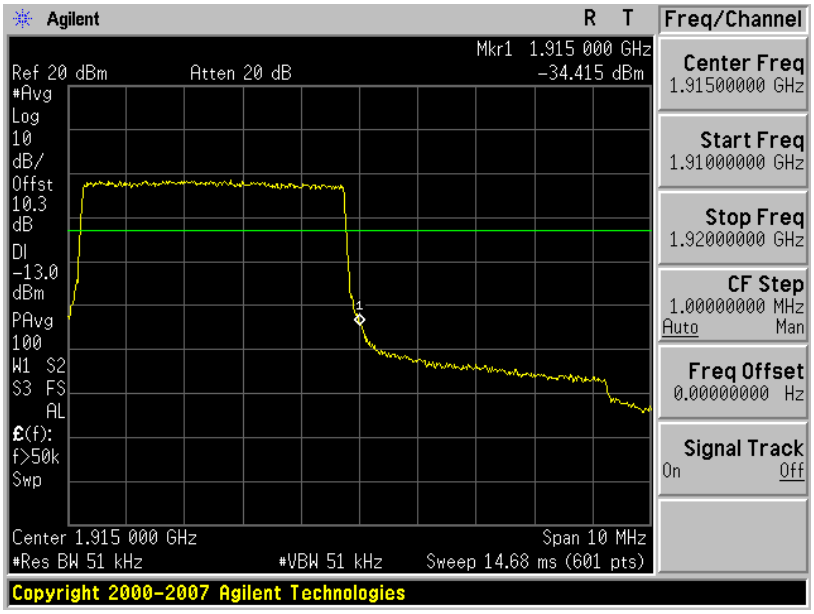
d. Record the max trace plot into the test report.

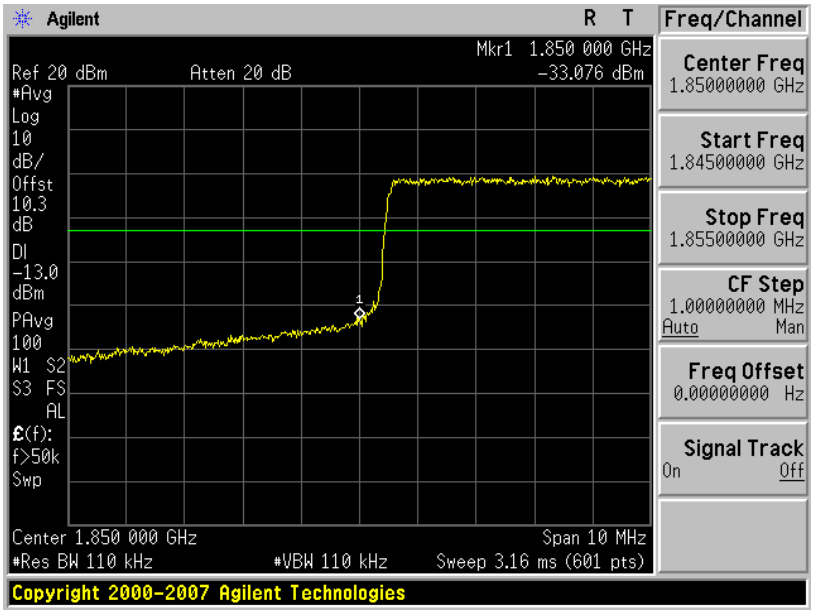
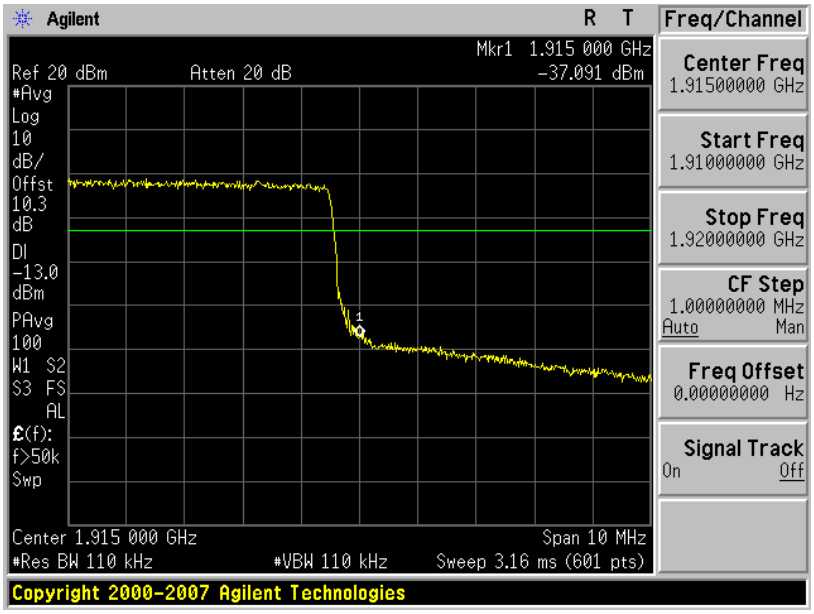
7.5. Uncertainty

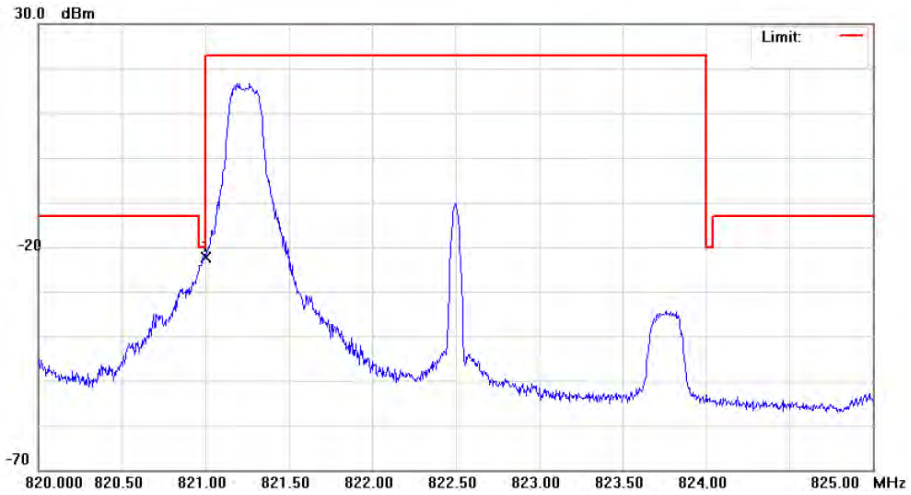
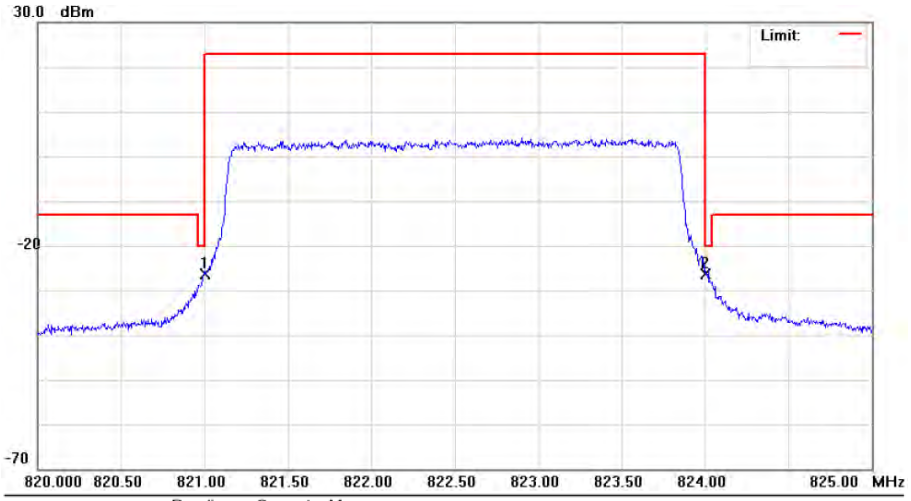
The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

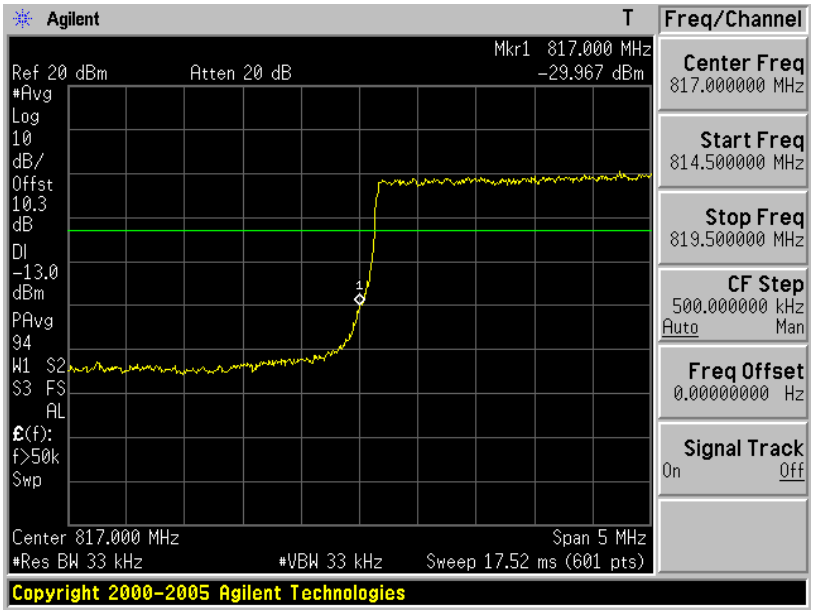
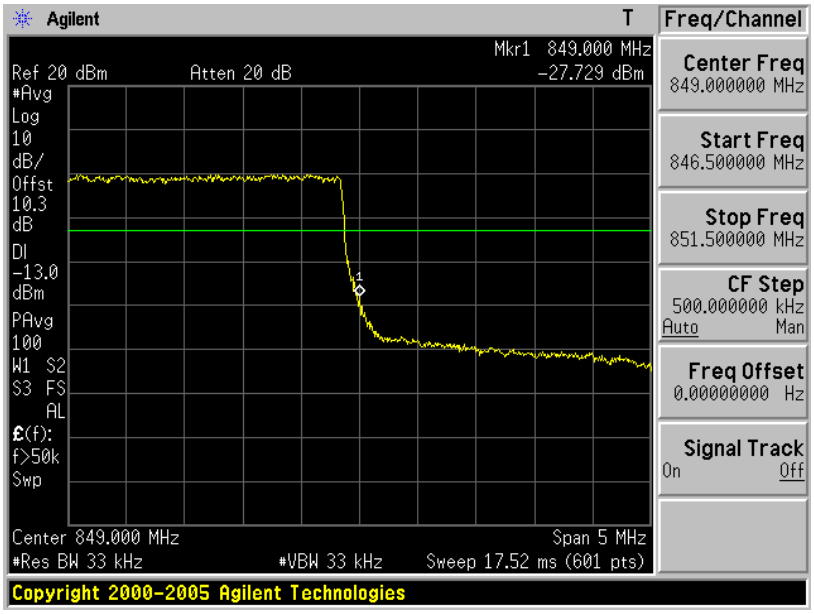
7.6. Test Result

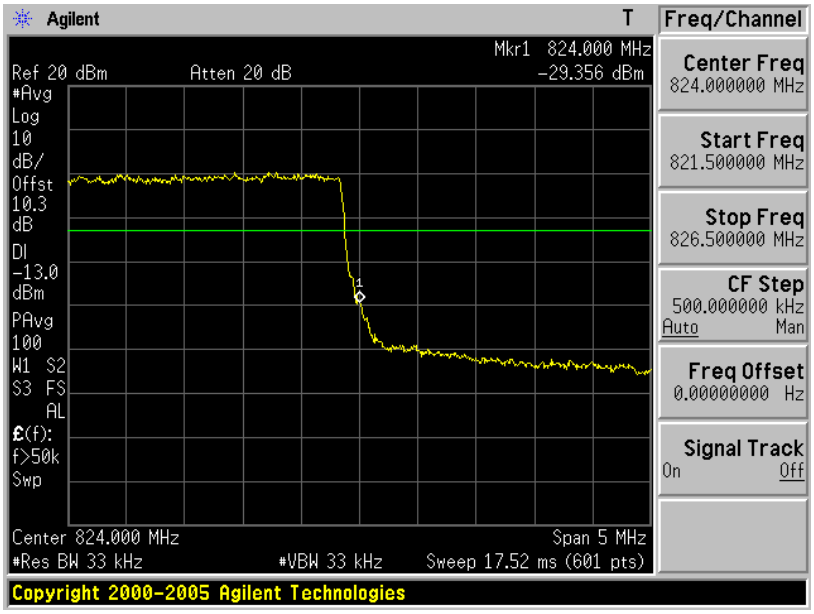
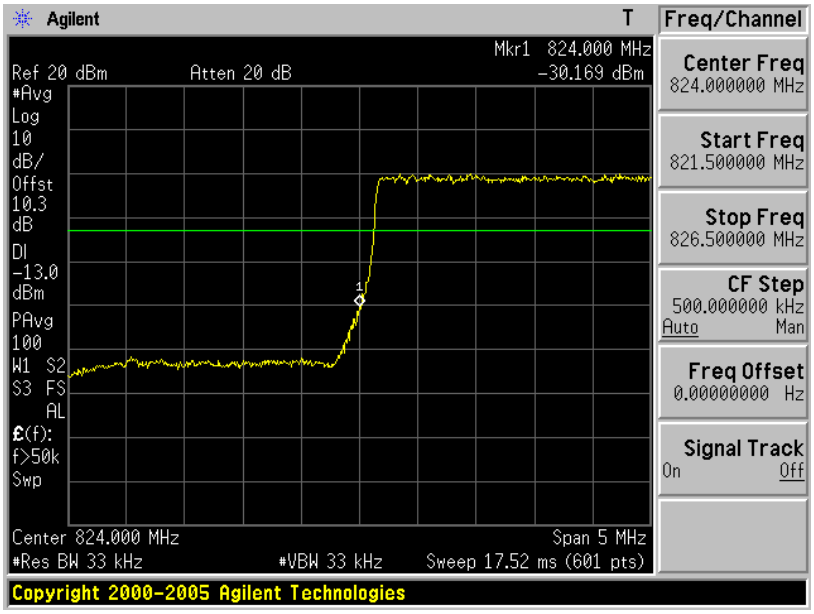
LTE Band 25 (Channel Bandwidth: 3 MHz) _ 15RB Allocated	
Lower Band Edge	
Higher Band Edge	

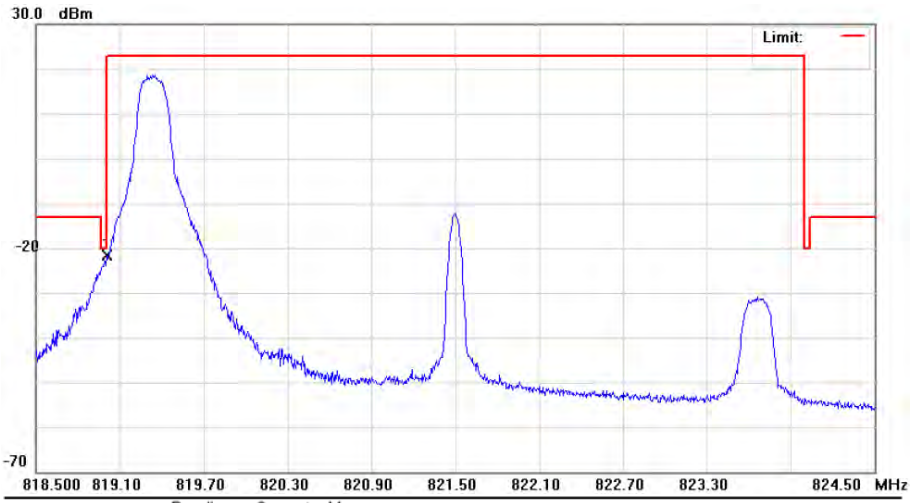
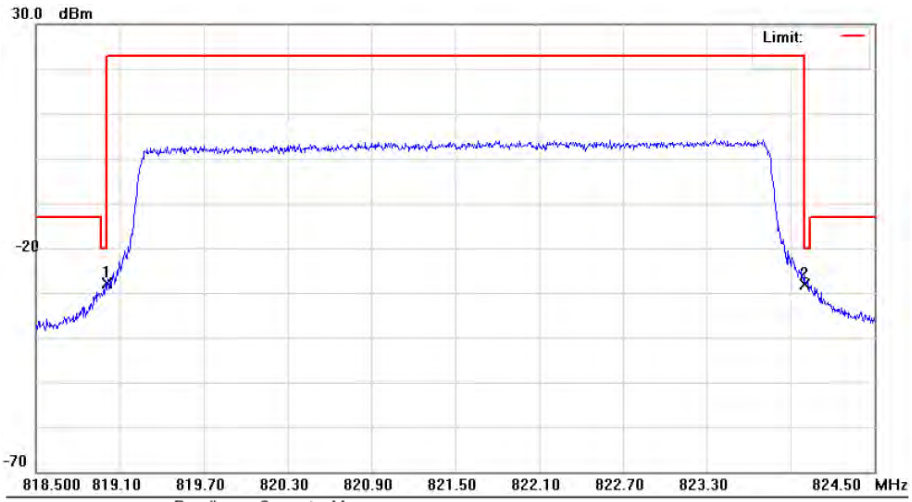
LTE Band 25 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Lower Band Edge	
Higher Band Edge	

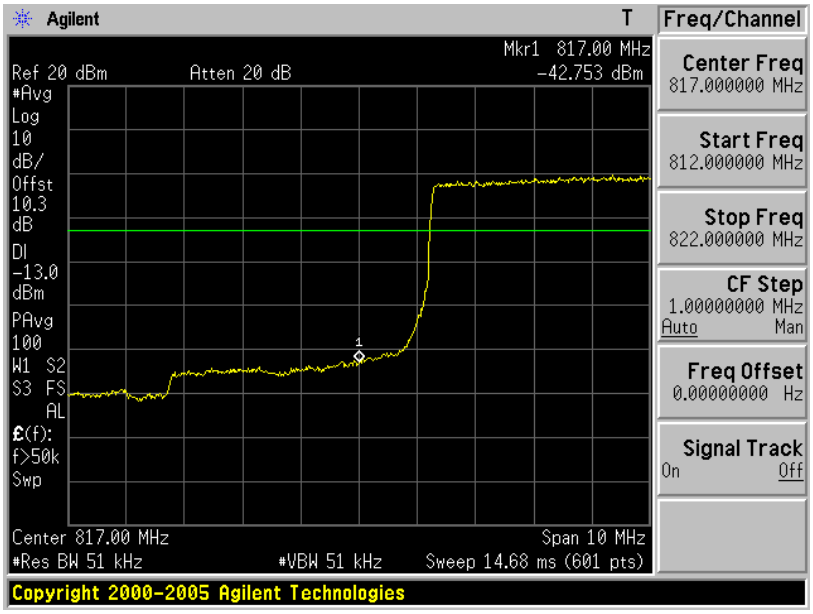
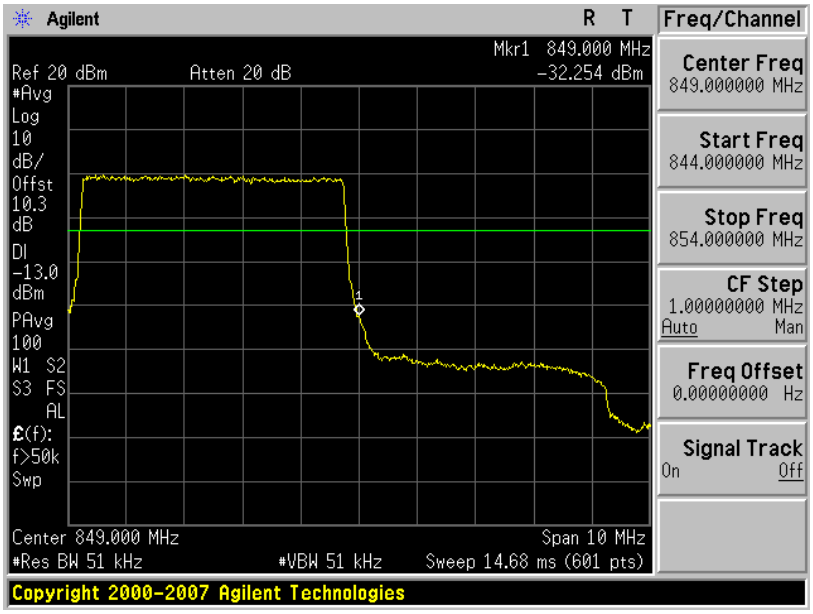
LTE Band 25 (Channel Bandwidth: 10 MHz) _ 50RB Allocated	
Lower Band Edge	
Higher Band Edge	

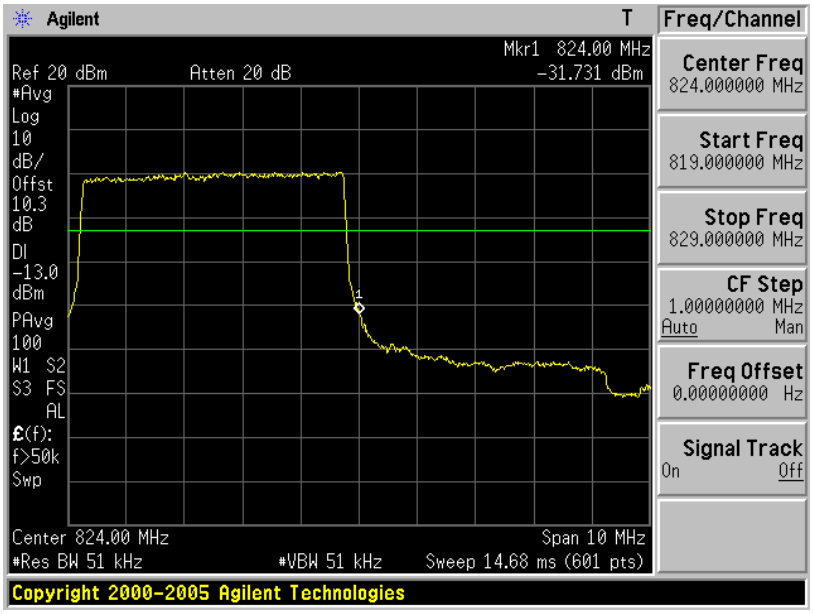
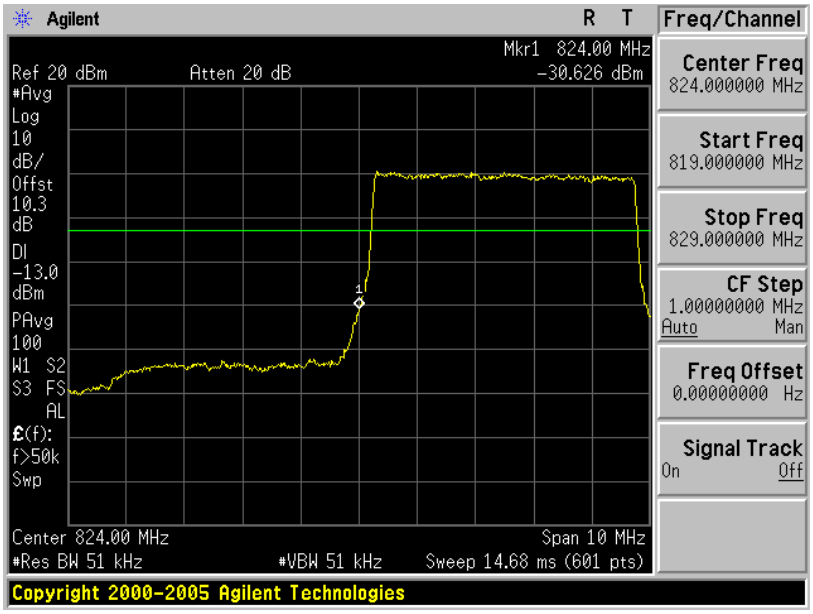
LTE Band 26 (Channel Bandwidth: 3 MHz) _ 15RB Allocated	
Lower Band Edge	 No. Mk. Freq. Reading Level Correct Factor Measure-ment Limit Over MHz dBm dB dBm dBm dB Detector Comment 1 * 821.0000 -32.74 10.30 -22.44 -20.00 -2.44 peak
Higher Band Edge	 No. Mk. Freq. Reading Level Correct Factor Measure-ment Limit Over MHz dBm dB dBm dBm dB Detector Comment 1 821.0000 -36.77 10.30 -26.47 -20.00 -6.47 peak 2 * 824.0000 -36.58 10.30 -26.28 -20.00 -6.28 peak

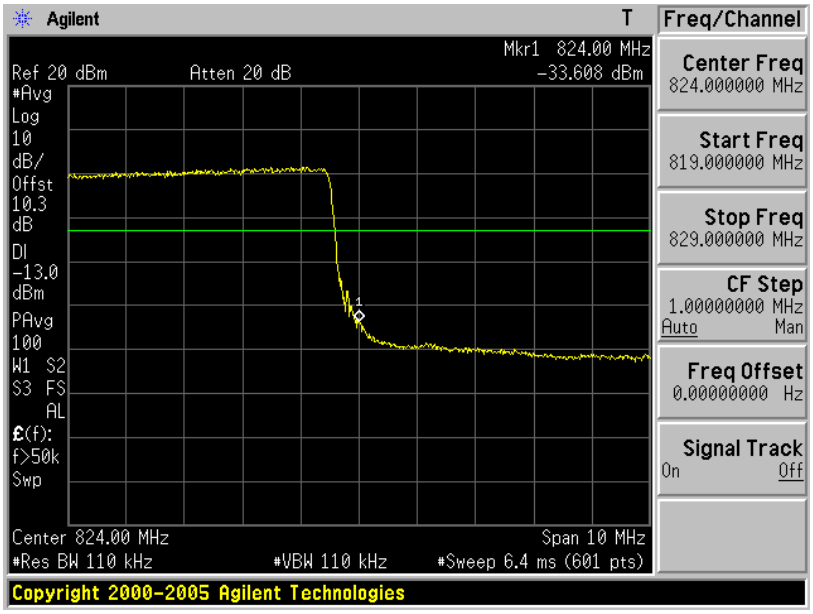
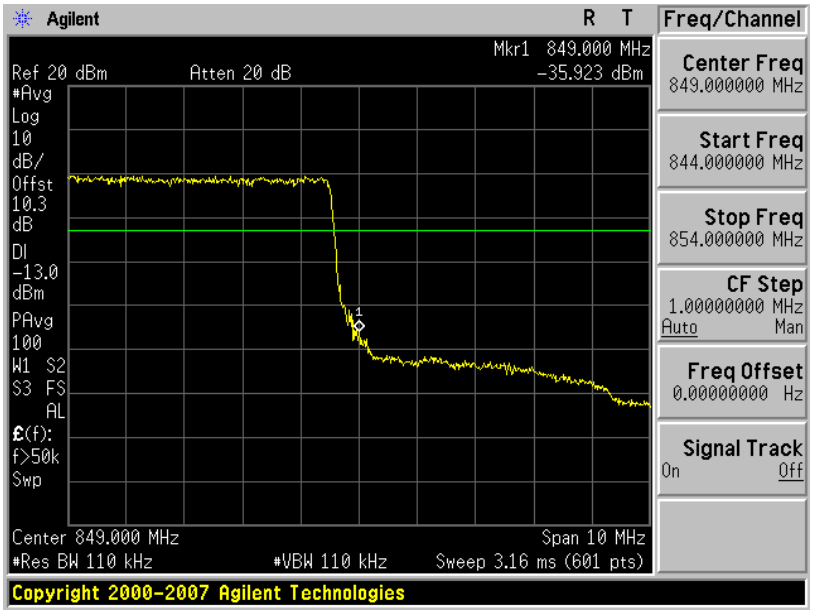
LTE Band 26 (Channel Bandwidth: 3 MHz) _ 15RB Allocated	
Lower Band Edge	
Higher Band Edge	

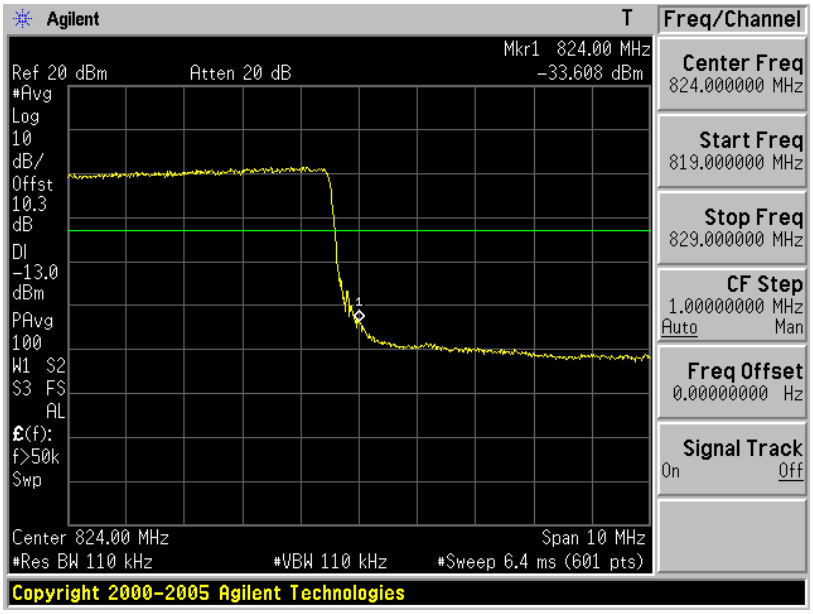
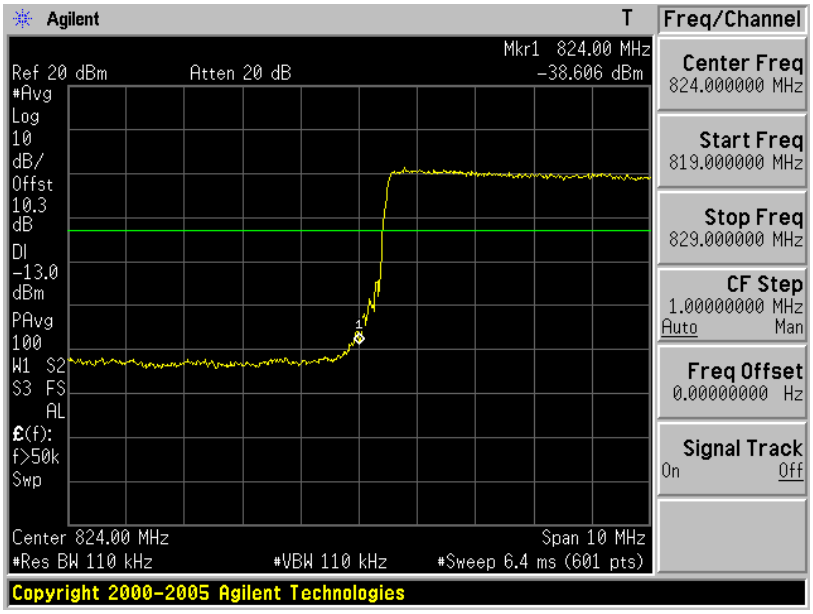
LTE Band 26 (Channel Bandwidth: 3 MHz) _ 15RB Allocated	
Lower Band Edge	
Higher Band Edge	

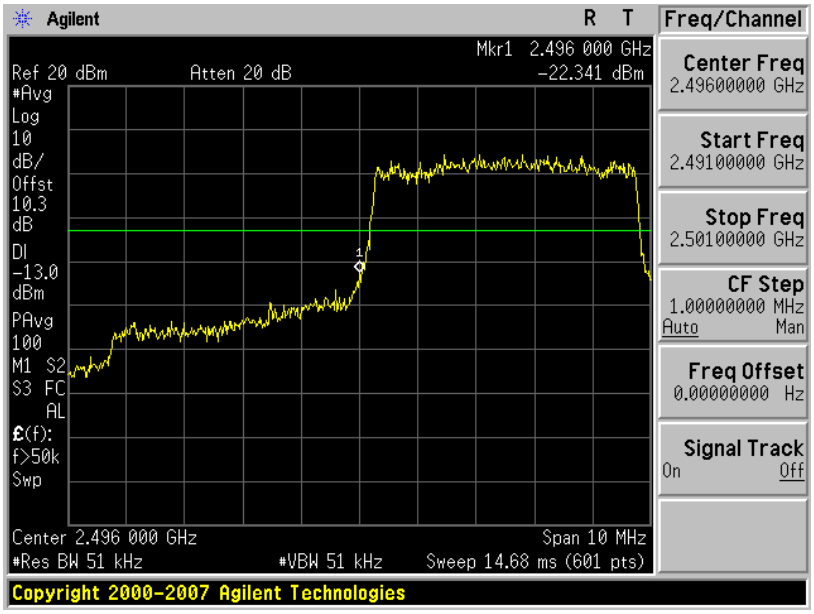
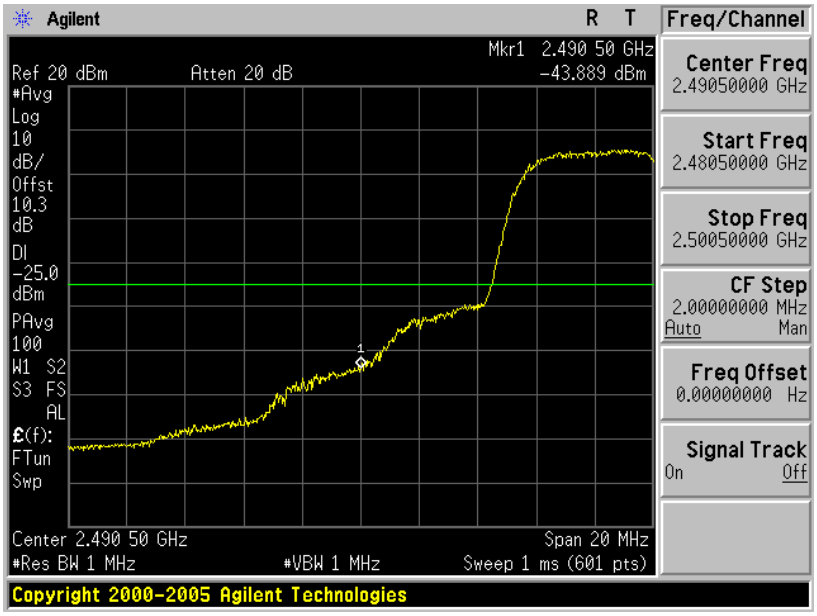
LTE Band 26 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Lower Band Edge	 No. Mk. Freq. Reading Level Correct Factor Measure-ment Limit Over MHz dBm dB dBm dBm dB Detector Comment 1 * 819.0000 -31.82 10.30 -21.52 -20.00 -1.52 peak
Higher Band Edge	 No. Mk. Freq. Reading Level Correct Factor Measure-ment Limit Over MHz dBm dB dBm dBm dB Detector Comment 1 * 819.0000 -38.23 10.30 -27.93 -20.00 -7.93 peak 2 824.0000 -38.53 10.30 -28.23 -20.00 -8.23 peak

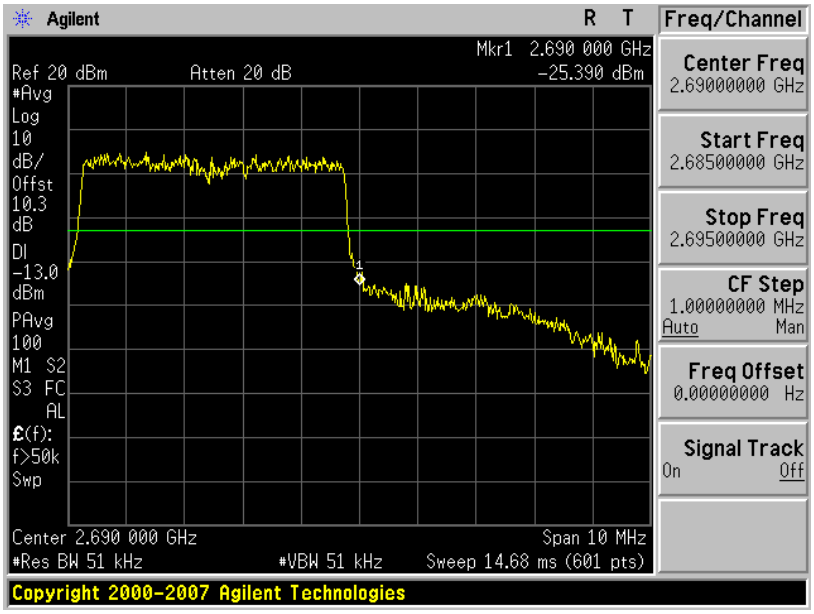
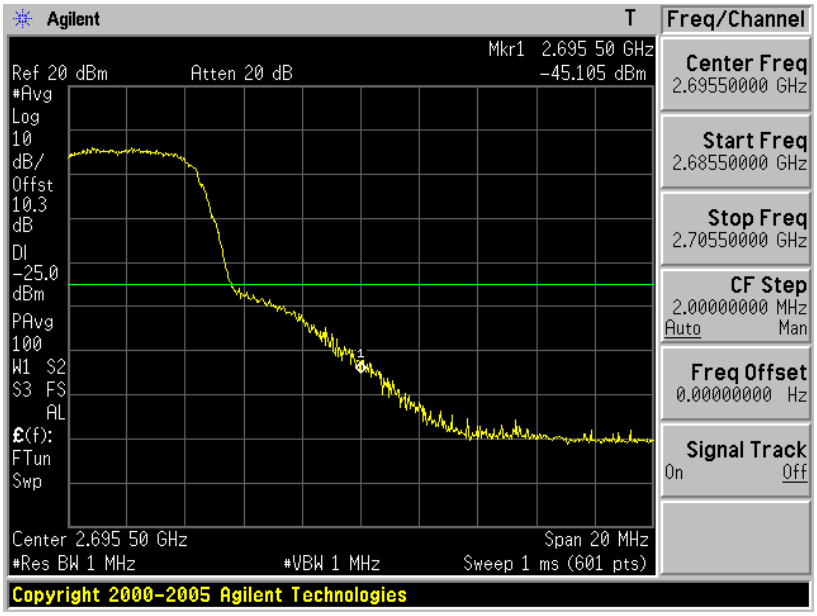
LTE Band 26 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Lower Band Edge	
Higher Band Edge	

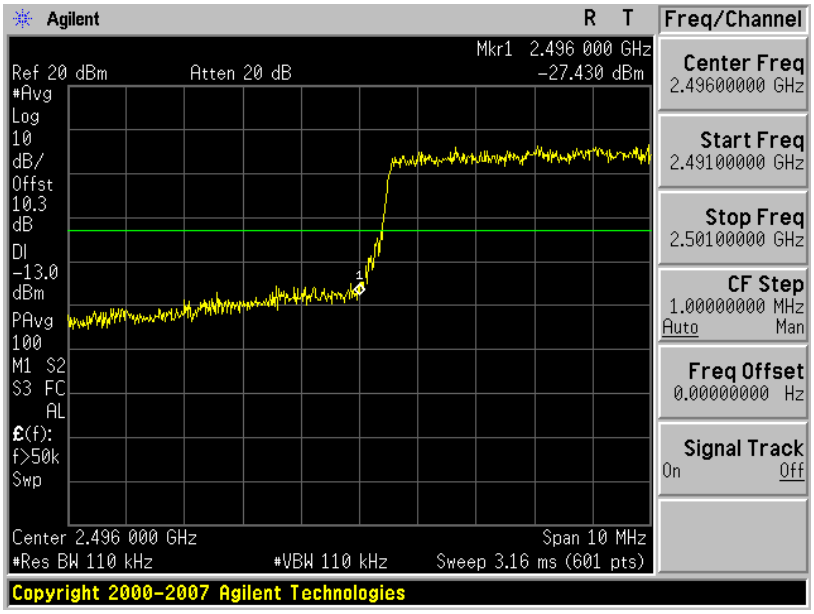
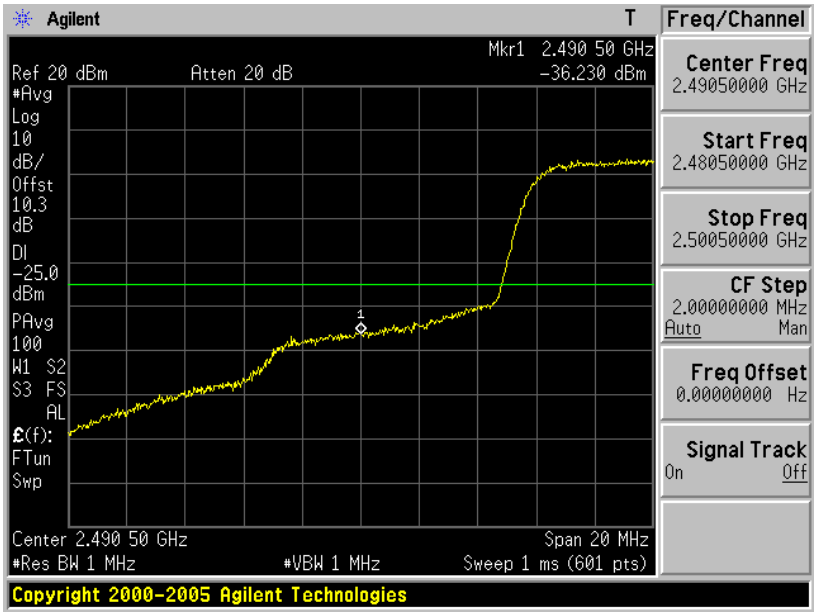
LTE Band 26 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Lower Band Edge	
Higher Band Edge	

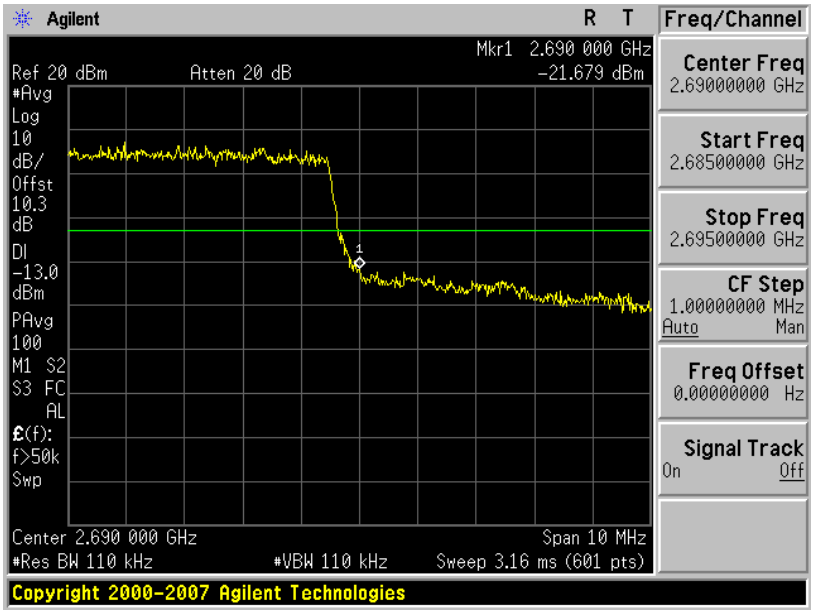
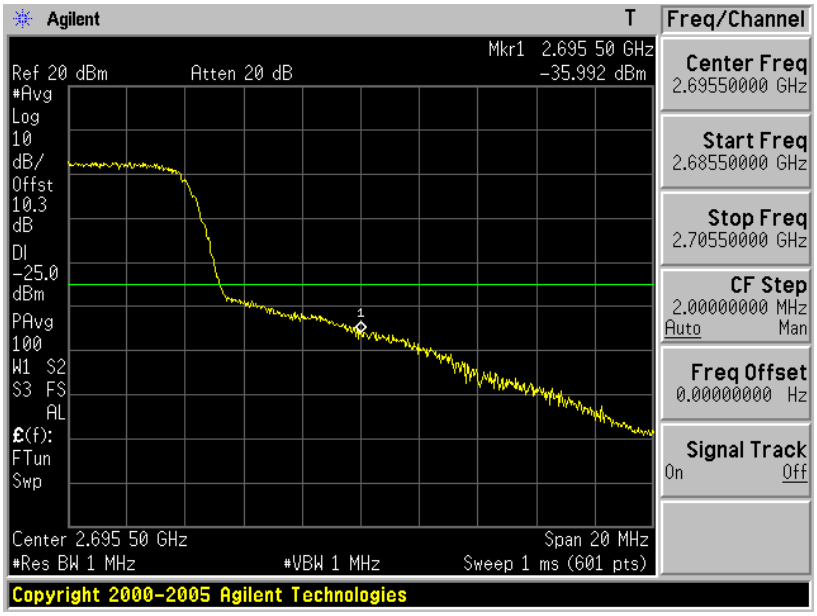
LTE Band 26 (Channel Bandwidth: 10 MHz) _ 50RB Allocated	
Lower Band Edge	
Higher Band Edge	

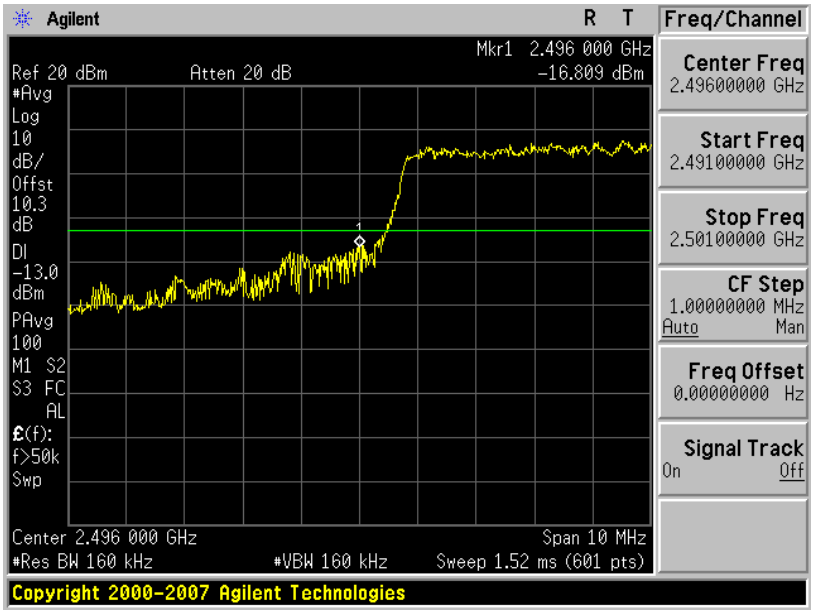
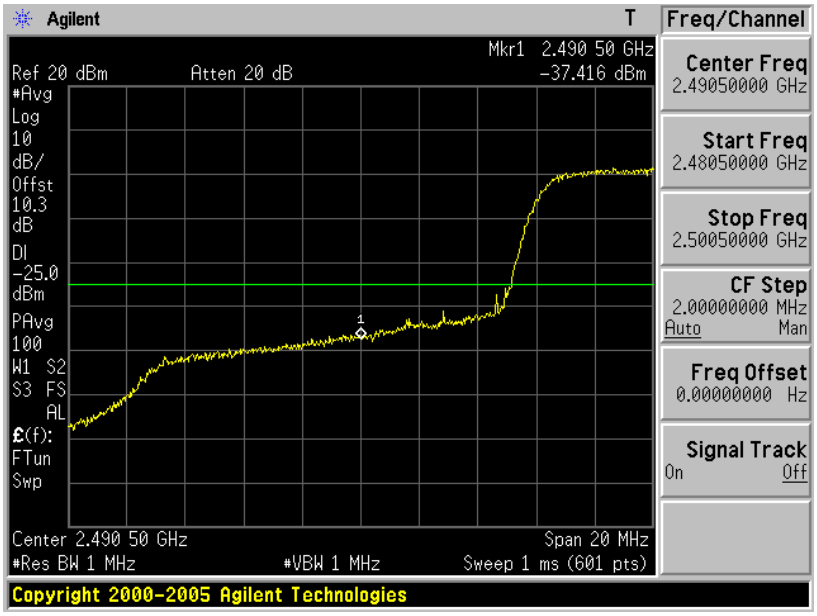
LTE Band 26 (Channel Bandwidth: 10 MHz) _ 50RB Allocated	
Lower Band Edge	
Higher Band Edge	

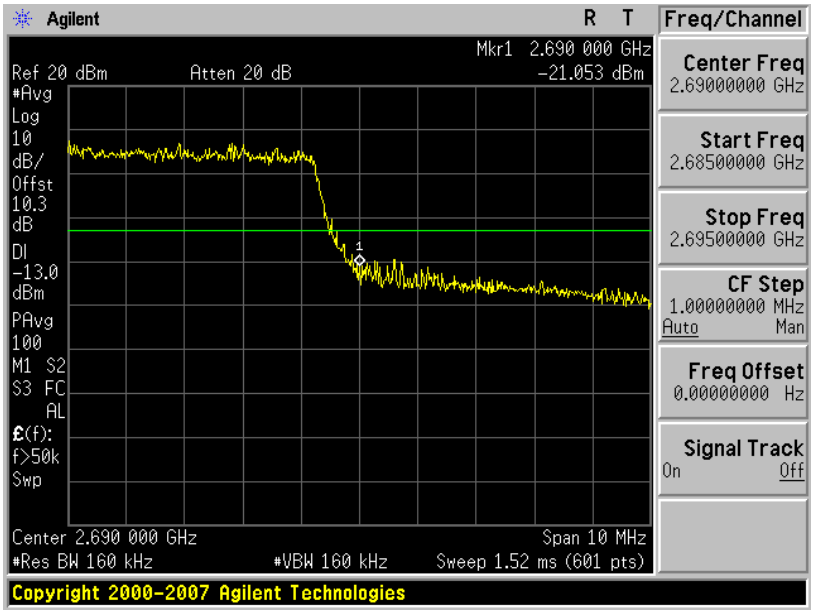
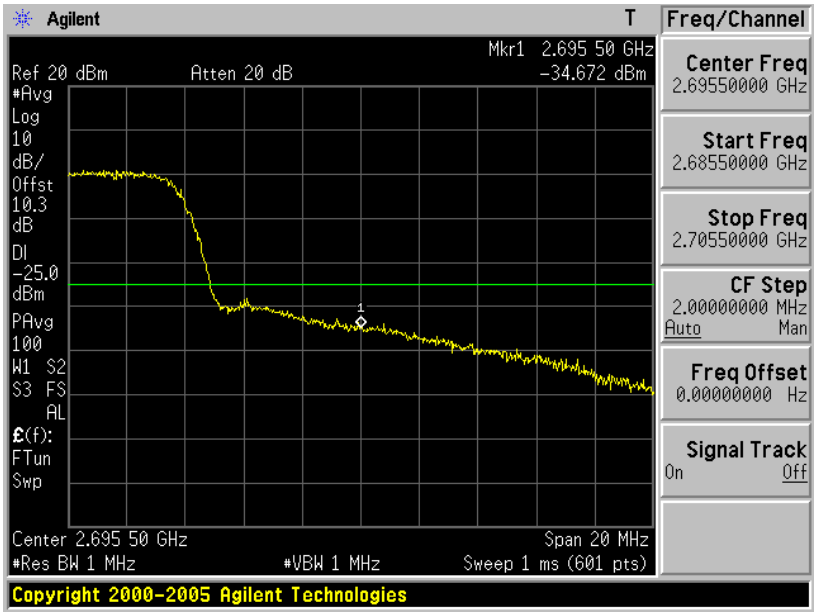
LTE Band 41 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Lower Band Edge	 

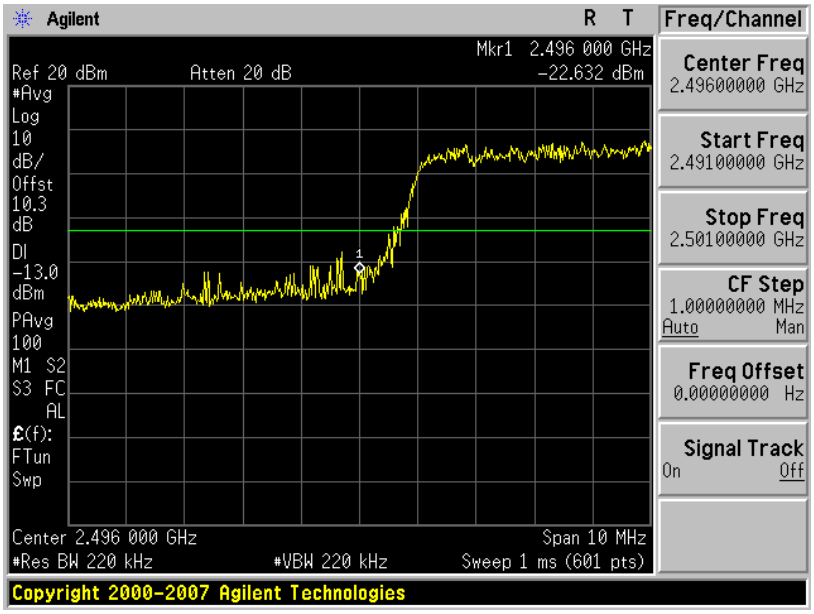
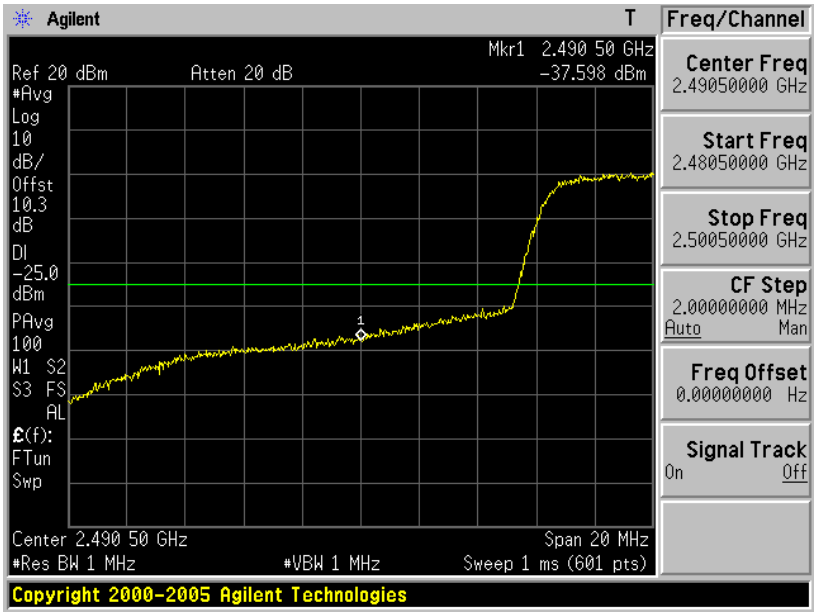
LTE Band 41 (Channel Bandwidth: 5 MHz) _ 25RB Allocated	
Higher Band Edge	 

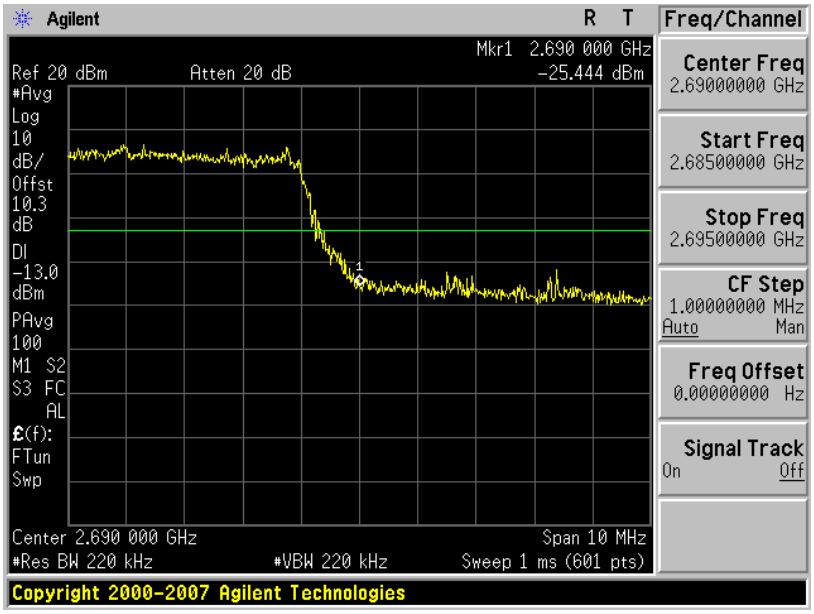
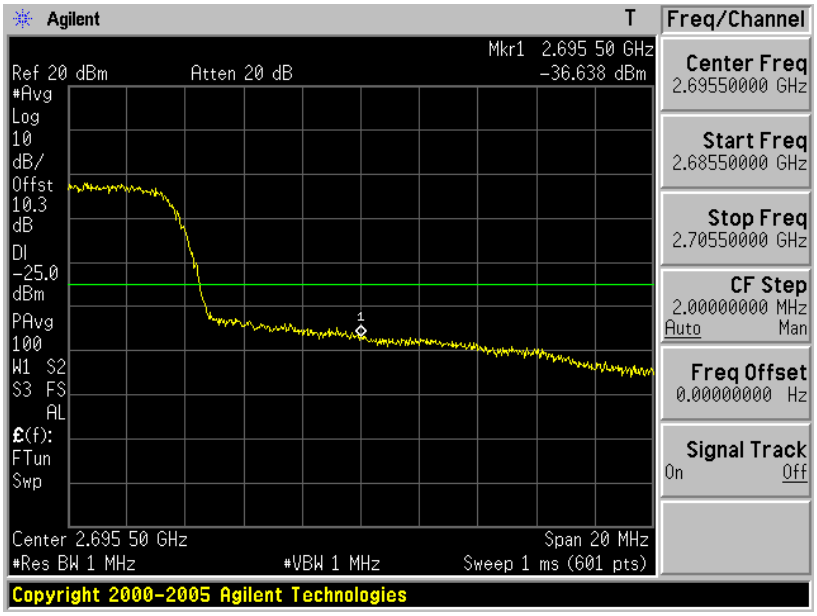
LTE Band 41 (Channel Bandwidth: 10 MHz) _ 50RB Allocated	
Lower Band Edge	 

LTE Band 41 (Channel Bandwidth: 10 MHz) _ 50RB Allocated	
Higher Band Edge	 

LTE Band 41 (Channel Bandwidth: 15 MHz) _ 75RB Allocated	
Lower Band Edge	 

LTE Band 41 (Channel Bandwidth: 15 MHz) _ 75RB Allocated	
Higher Band Edge	 

LTE Band 41 (Channel Bandwidth: 20 MHz) _ 100RB Allocated	
Lower Band Edge	 

LTE Band 41 (Channel Bandwidth: 20 MHz) _ 100RB Allocated	
Higher Band Edge	 

8 Conducted Spurious Emission Test

8.1. Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 $\log_{10}$(P) dB. The limit of emission equal to -13dBm

8.2. Test Instruments

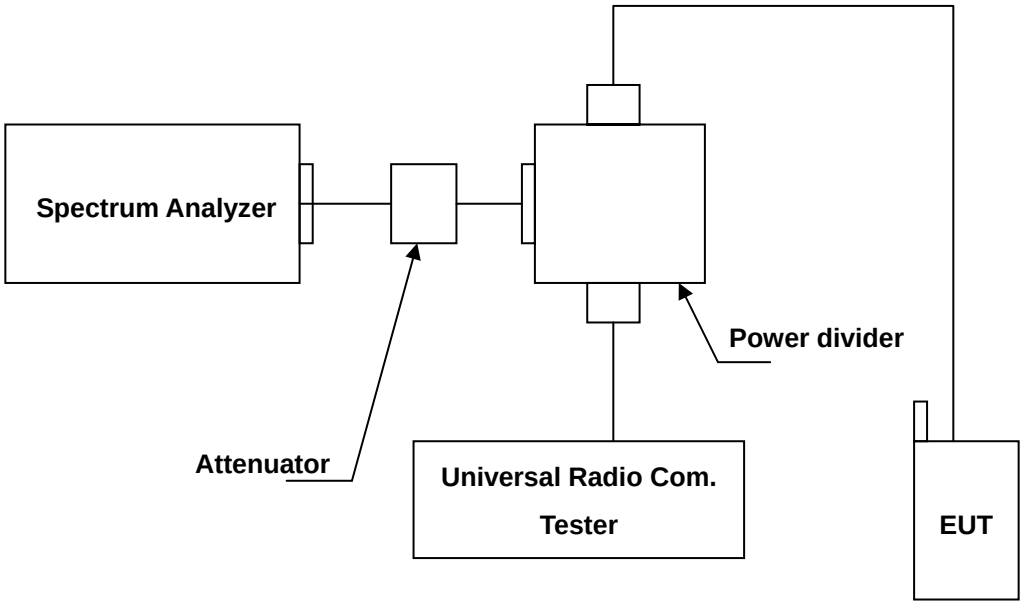
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/10/2012	(1)
Wideband Radio Communication Test	R & S	CMW500	103168	11/30/2012	(1)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

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

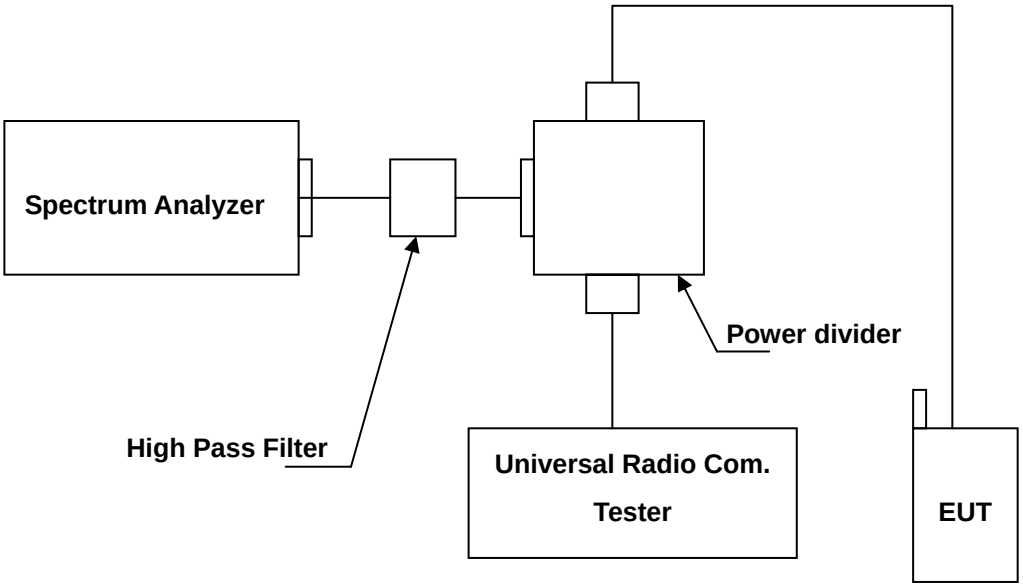
Note: N.C.R. = No Calibration Request.

8.3. Setup

Below 2.8GHz



Above 2.8GHz



8.4. Test Procedure

a. The EUT was set up for the maximum peak power with LTE / WCDMA link data modulation. 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 spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

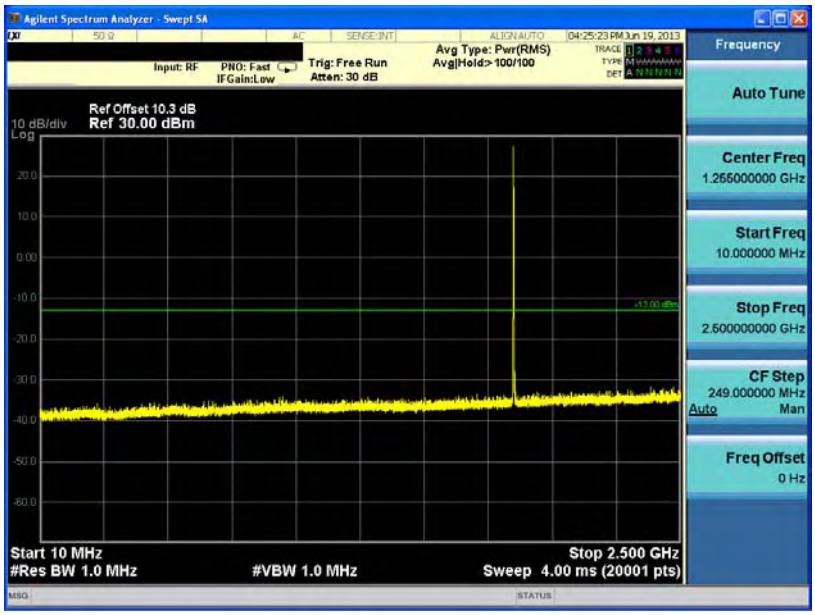
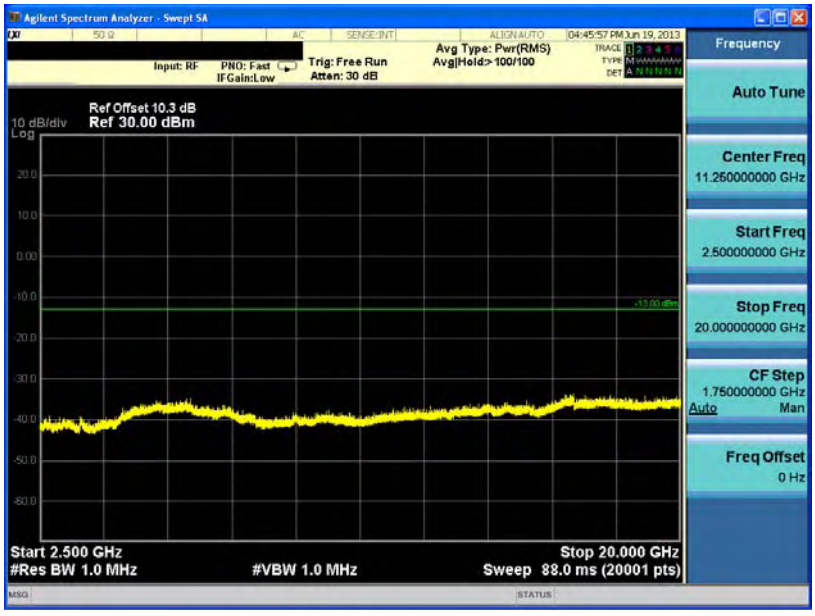
c. When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

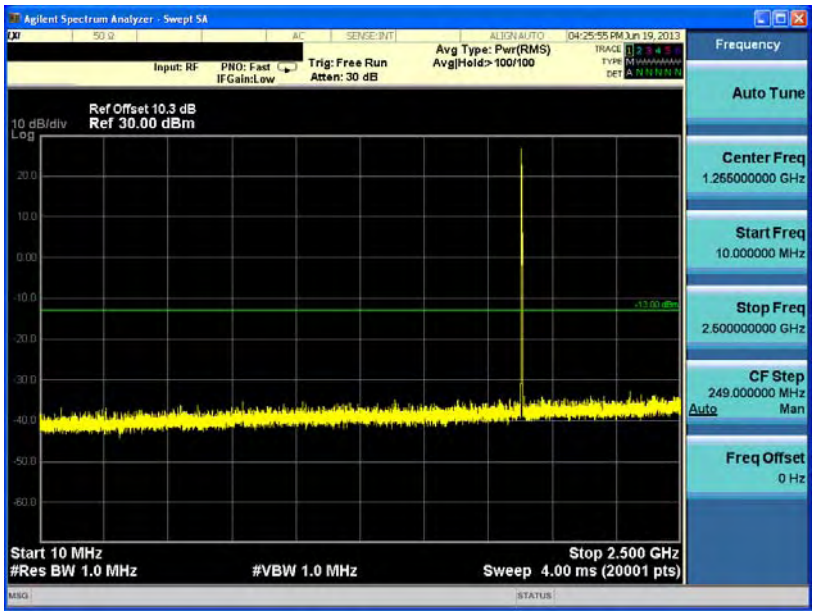
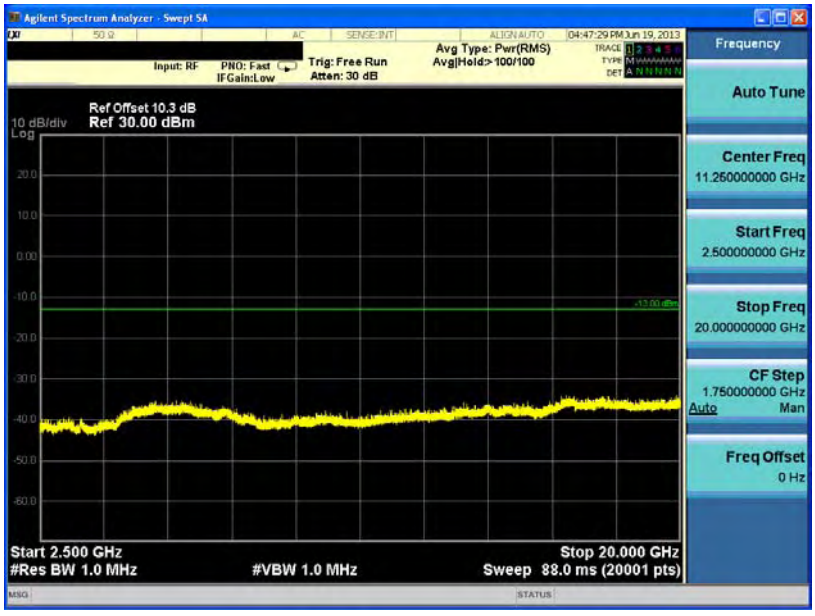
d. When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

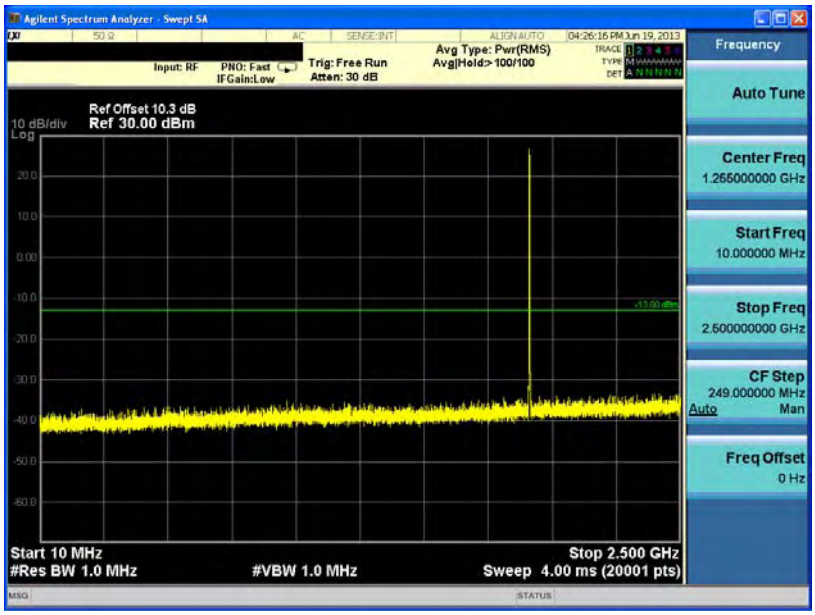
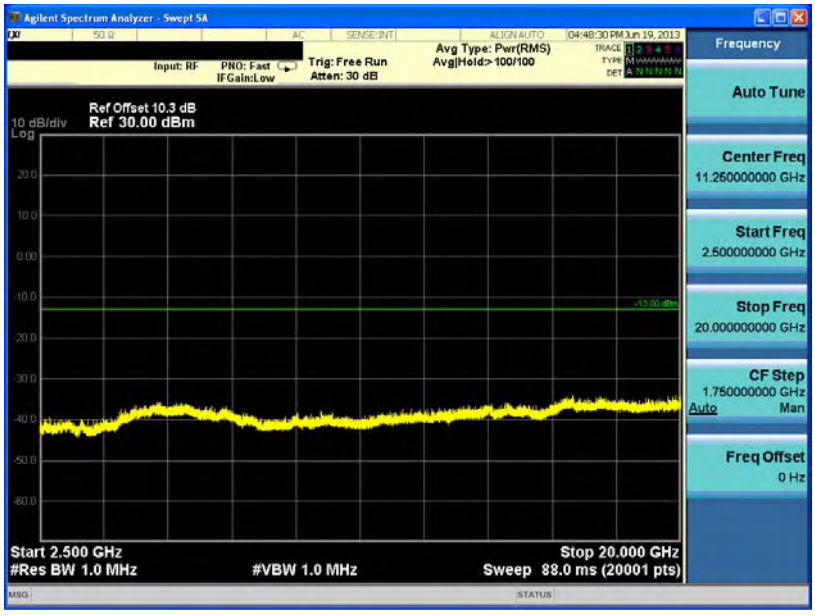
8.5. Uncertainty

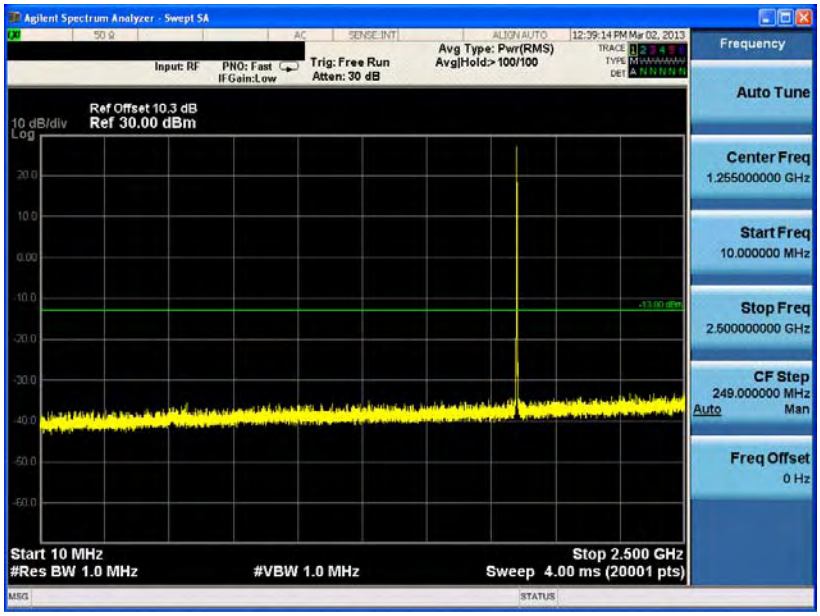
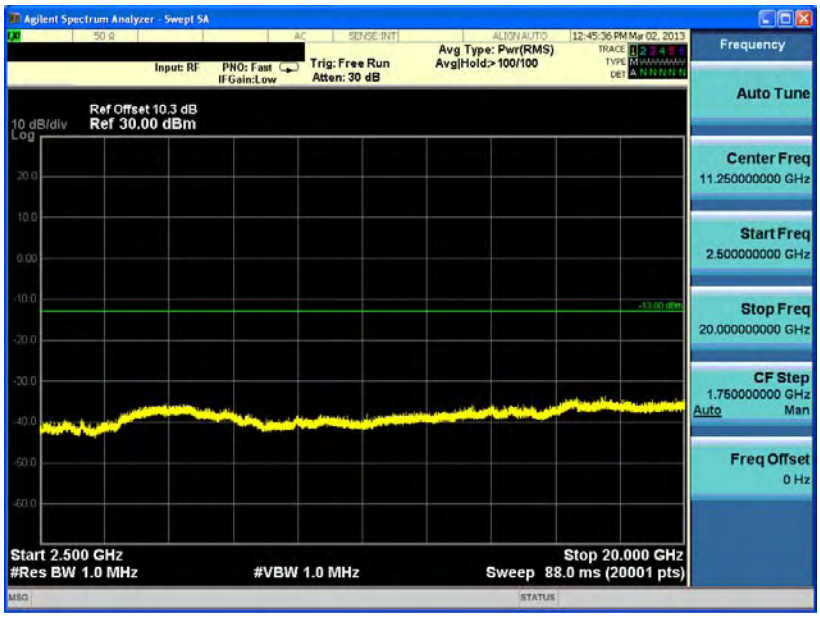
The measurement uncertainty is evaluated as ± 2.24 dB.

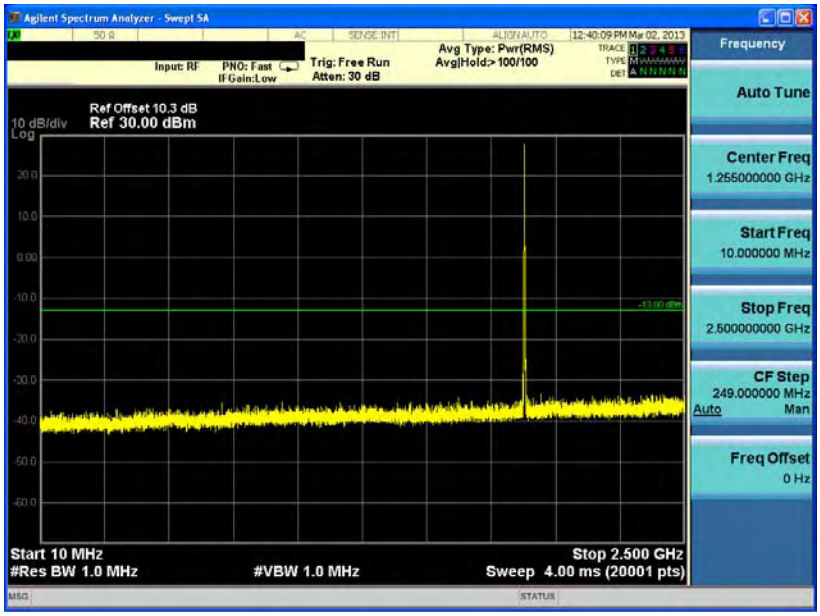
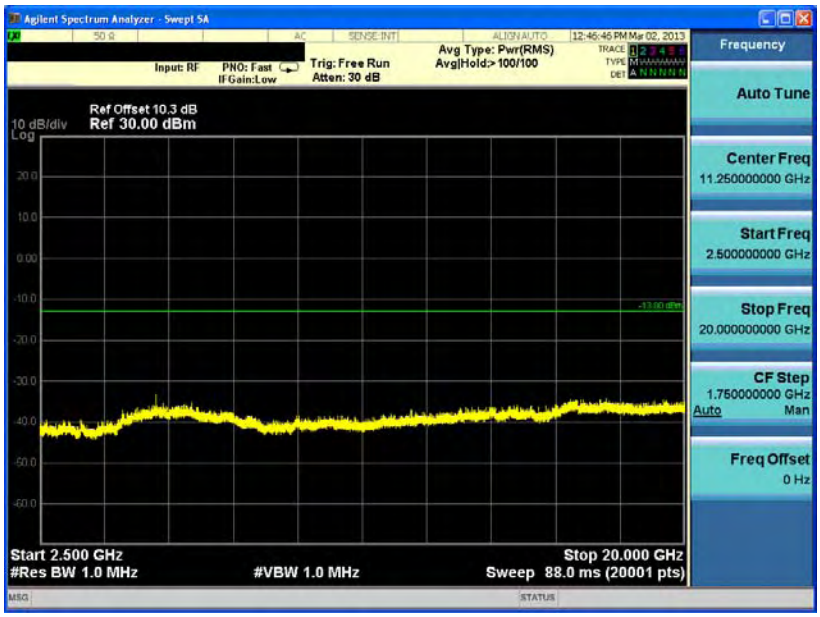
8.6. Test Graphs

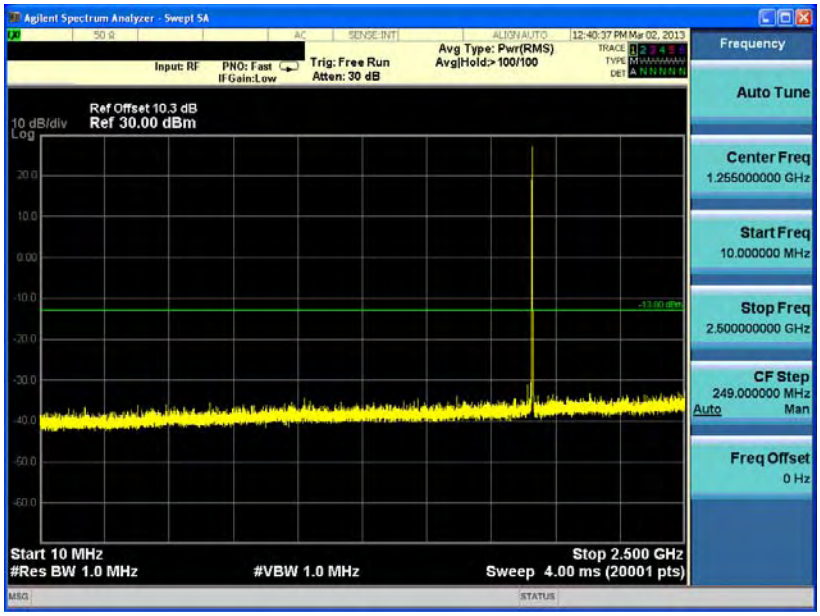
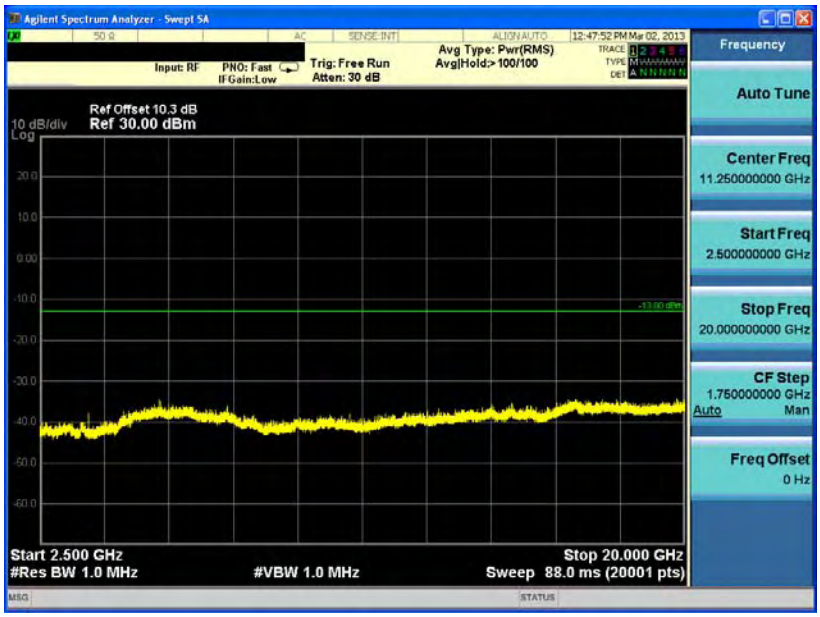
LTE Band 25 (Channel Bandwidth: 3 MHz) _ QPSK	
1851.5 MHz	
	

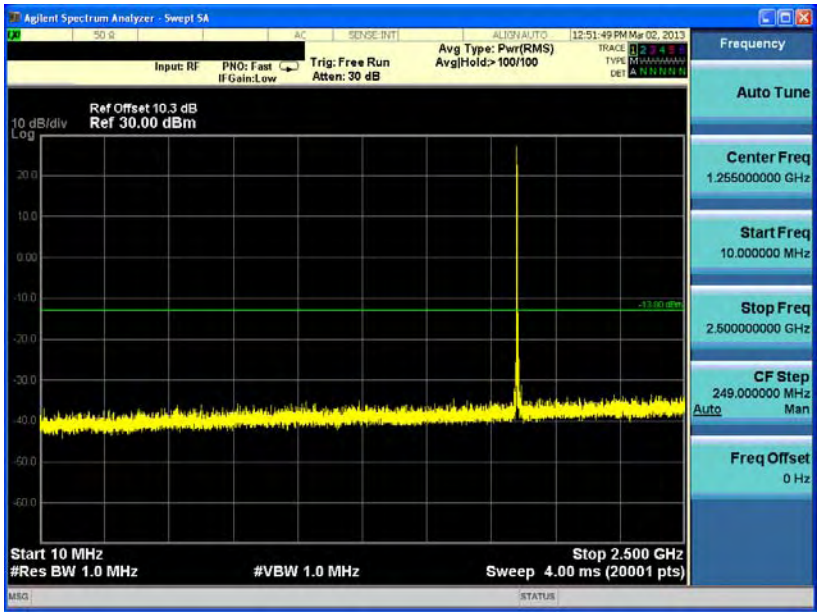
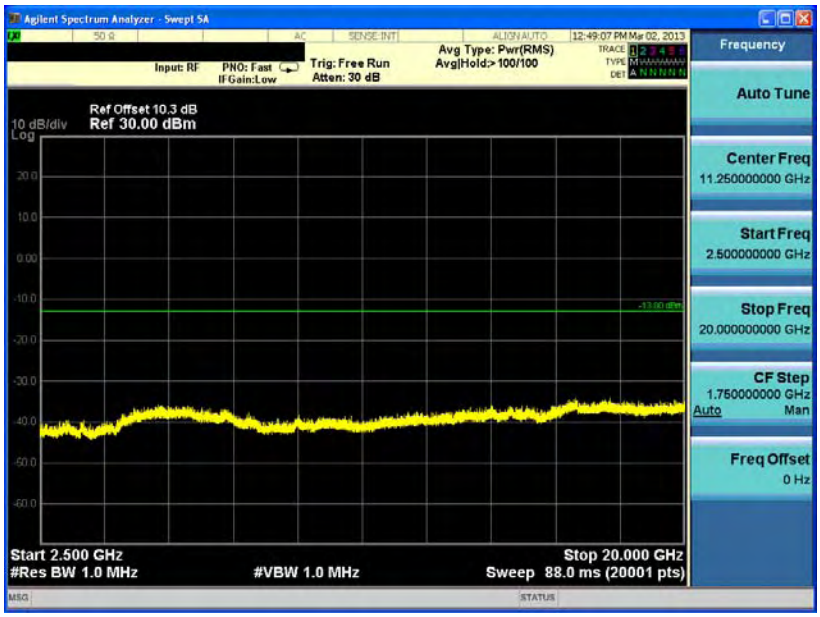
LTE Band 25 (Channel Bandwidth: 3 MHz) _ QPSK	
1882.5 MHz	 

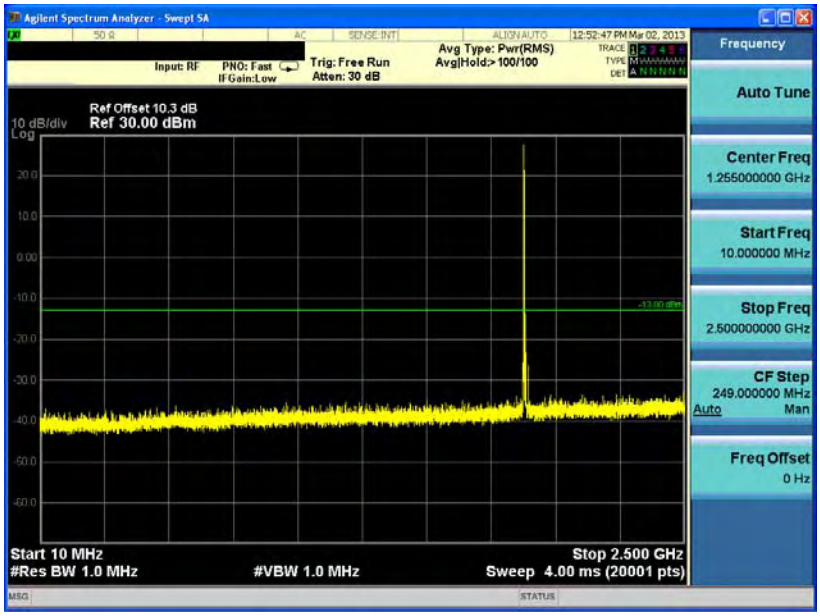
LTE Band 25 (Channel Bandwidth: 3 MHz) _ QPSK	
1913.5 MHz	 

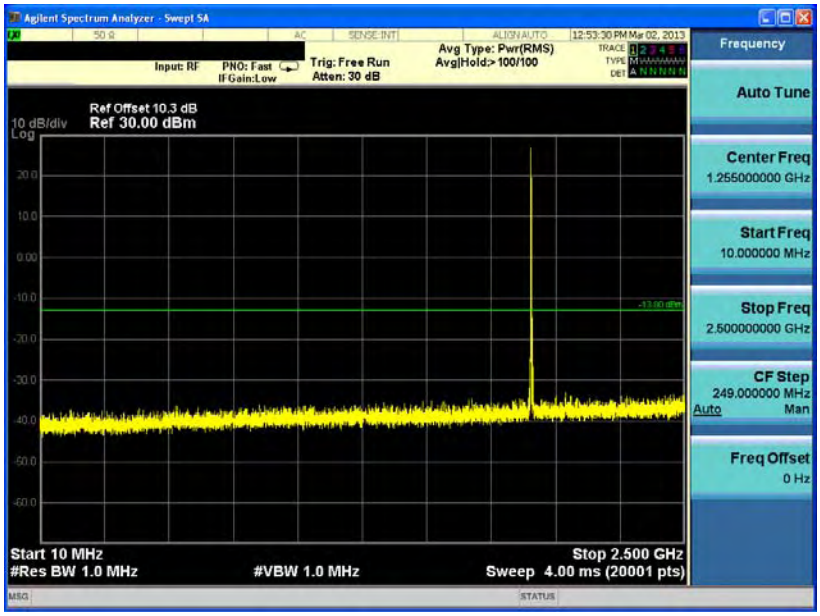
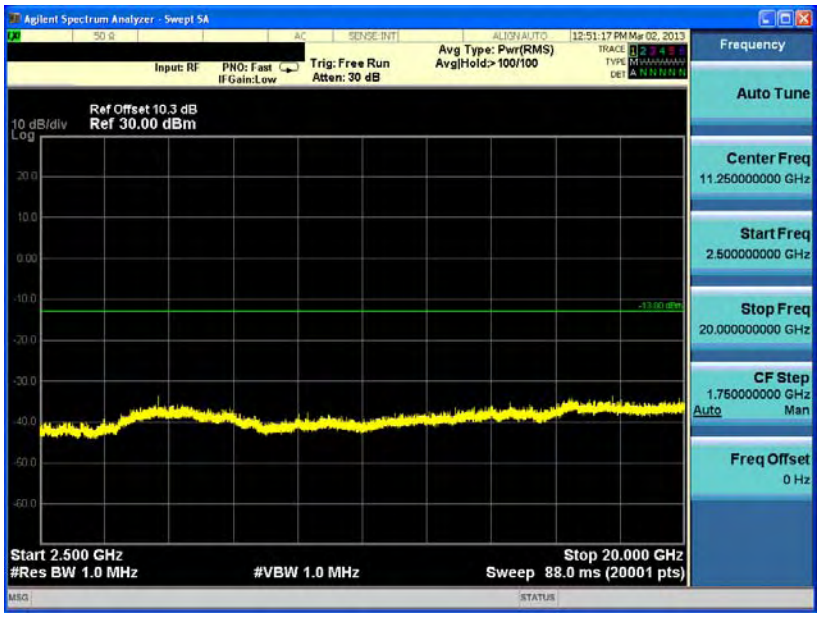
LTE Band 25 (Channel Bandwidth: 5 MHz) _ QPSK	
1852.5 MHz	
	

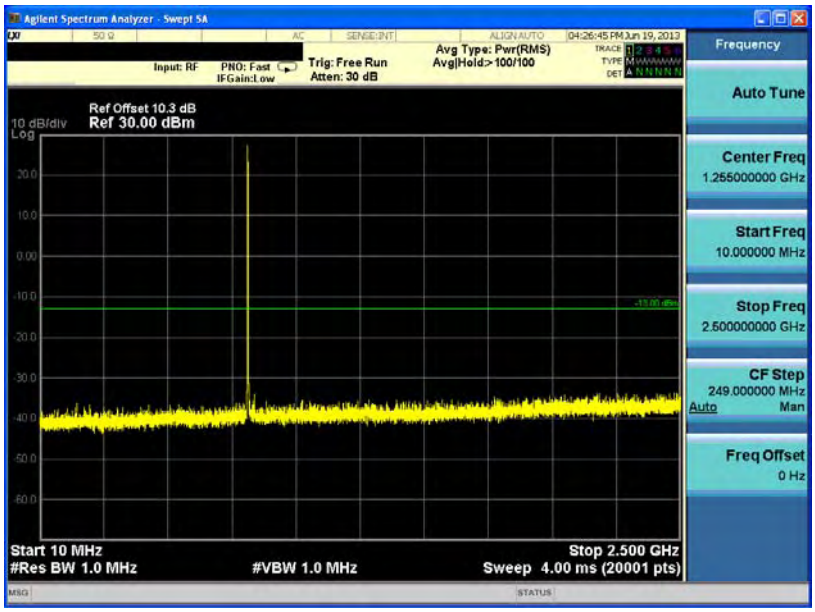
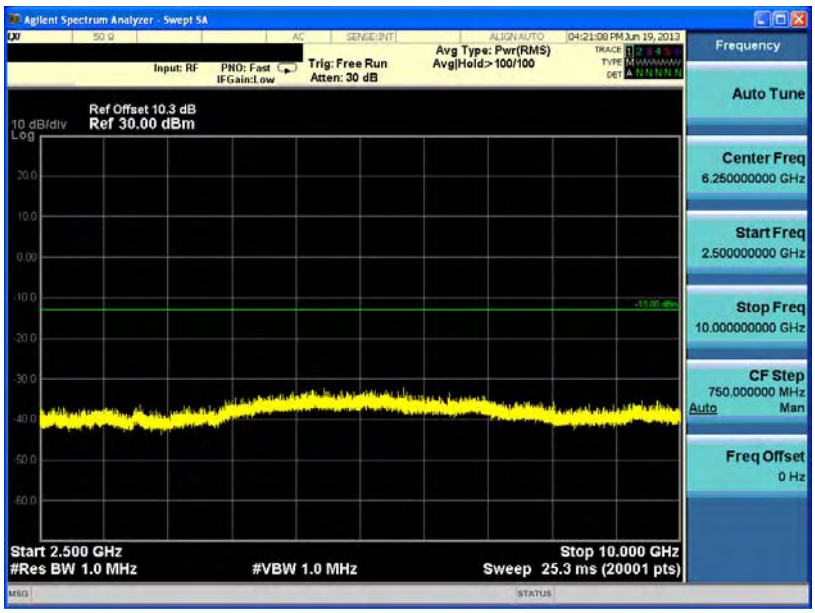
LTE Band 25 (Channel Bandwidth: 5 MHz) _ QPSK	
1882.5 MHz	 

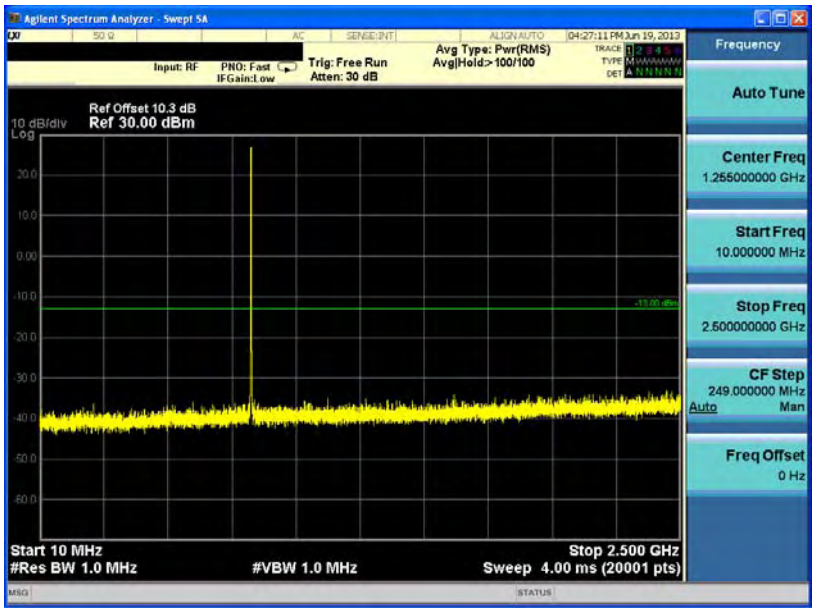
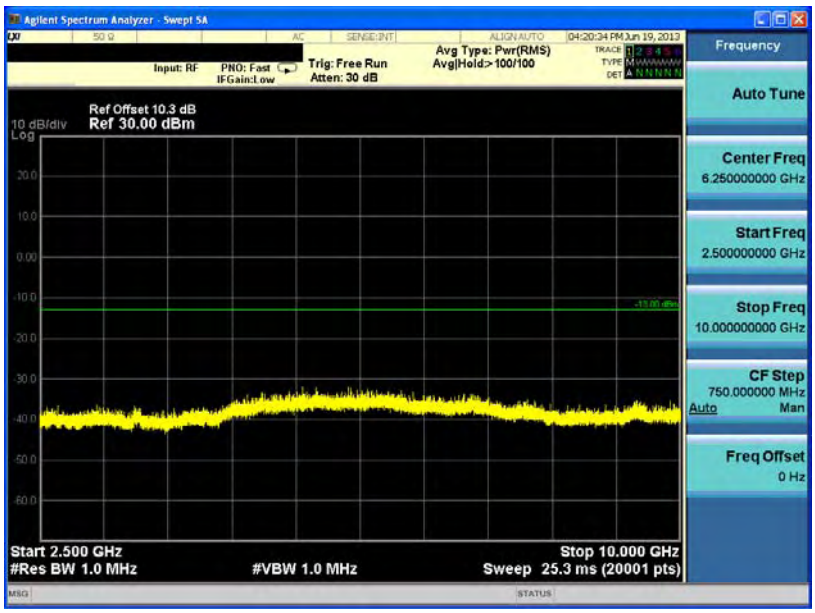
LTE Band 25 (Channel Bandwidth: 5 MHz) _ QPSK	
1912.5 MHz	
	

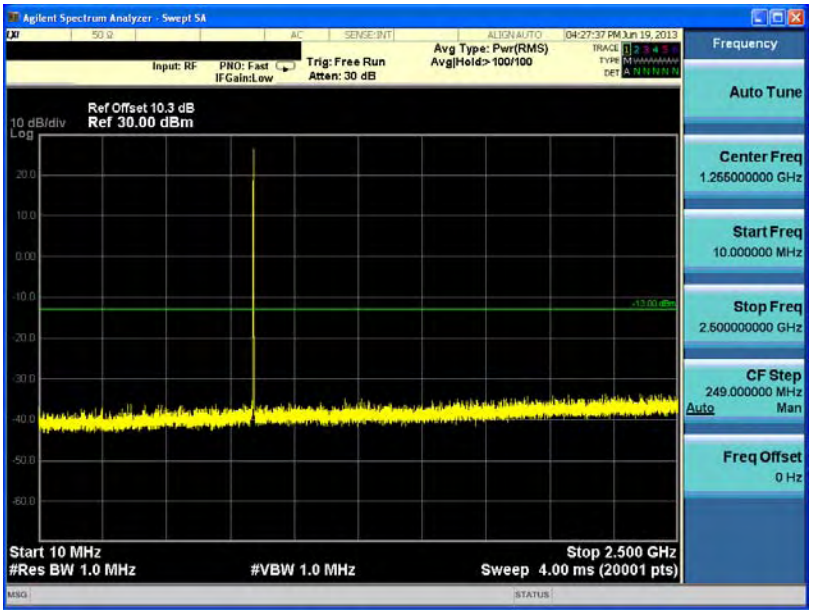
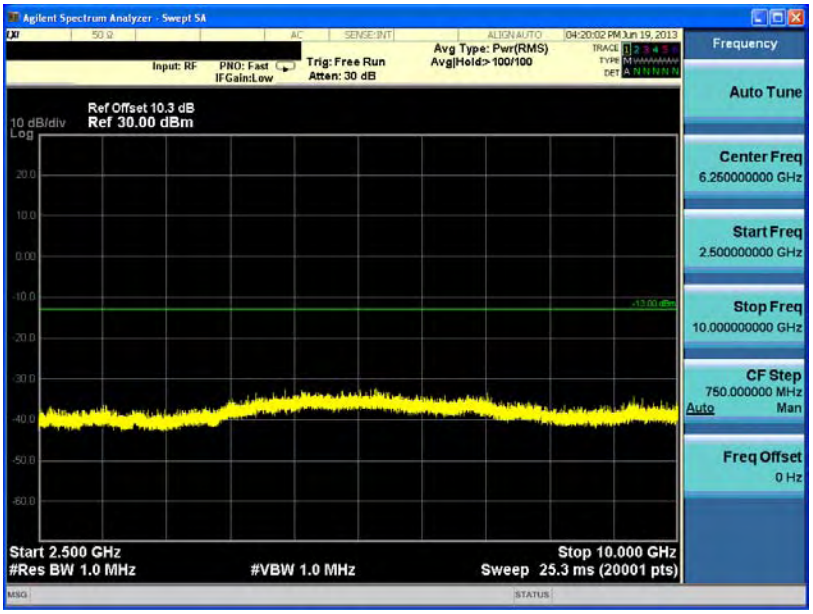
LTE Band 25 (Channel Bandwidth: 10 MHz) _ QPSK	
1855.0 MHz	
	

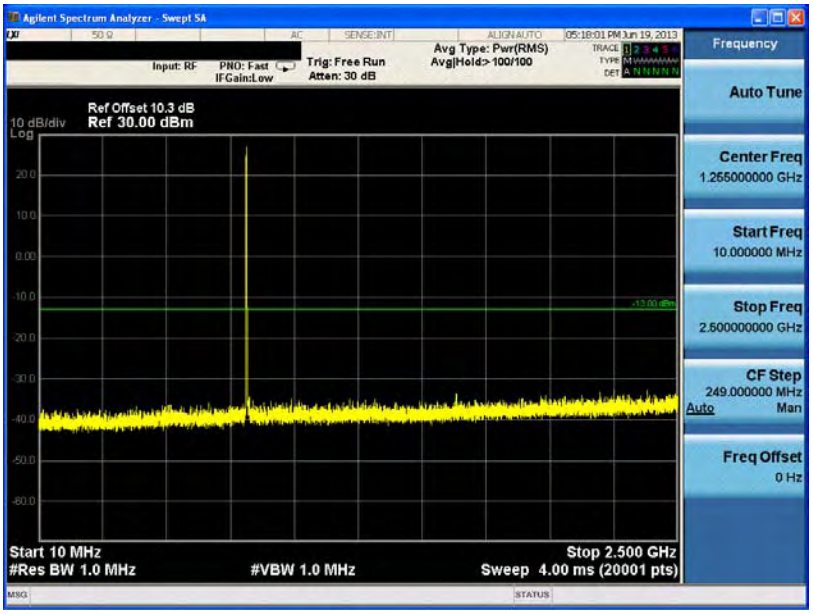
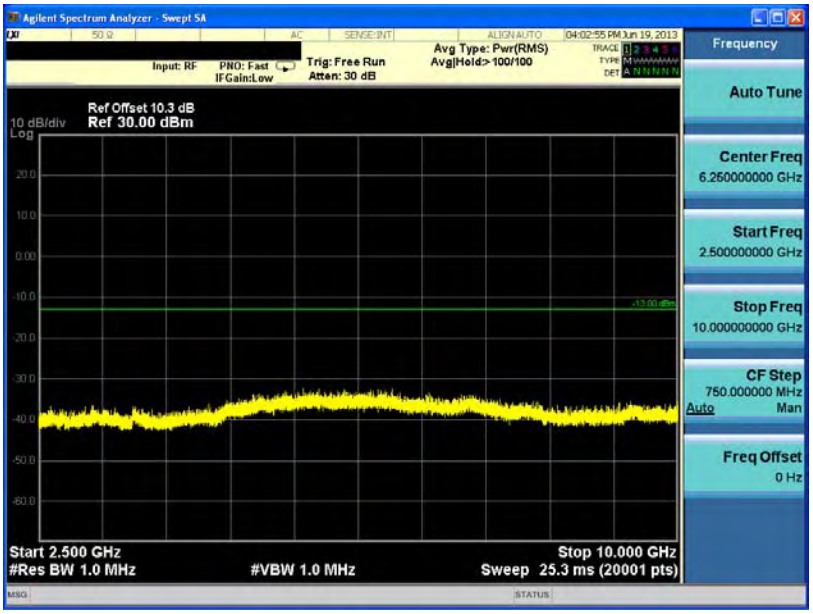
LTE Band 25 (Channel Bandwidth: 10 MHz) _ QPSK	
1882.5 MHz	
	

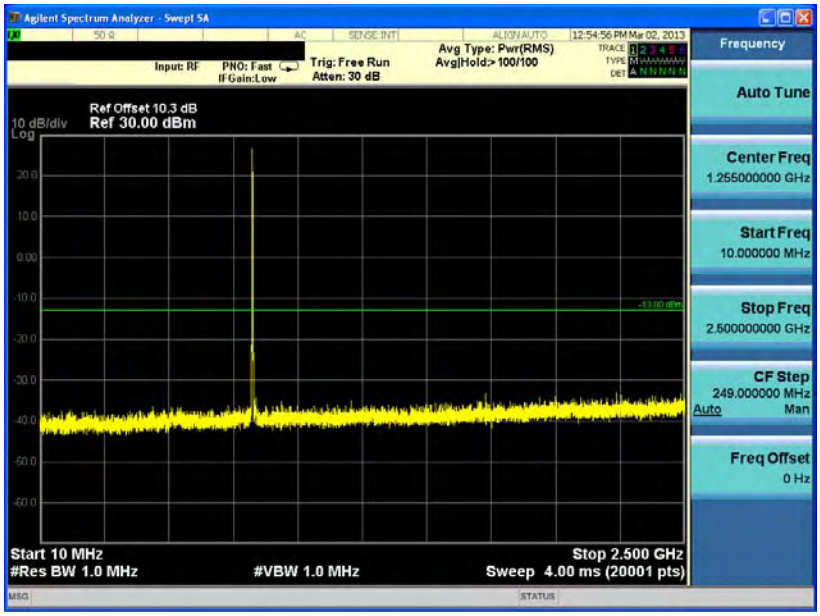
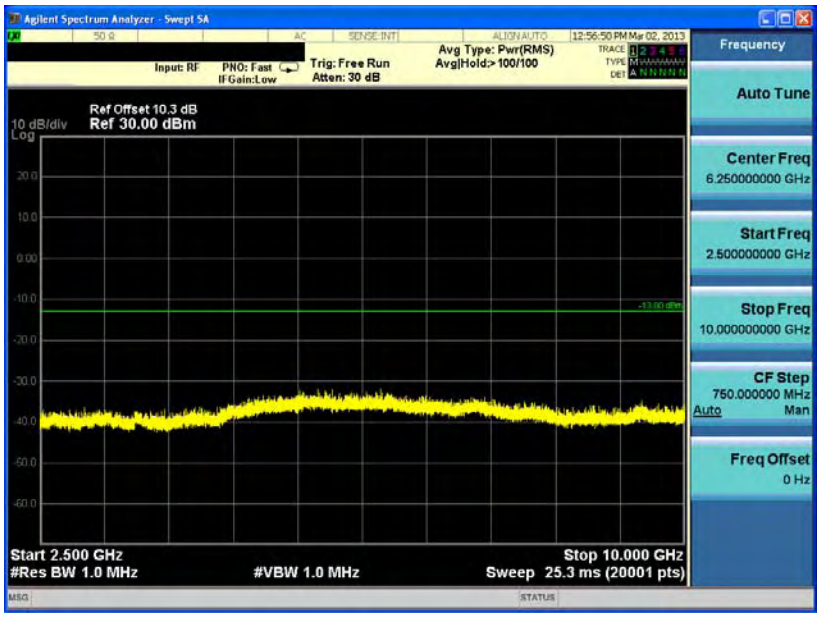
LTE Band 25 (Channel Bandwidth: 10 MHz) _ QPSK	
1910.0 MHz	 

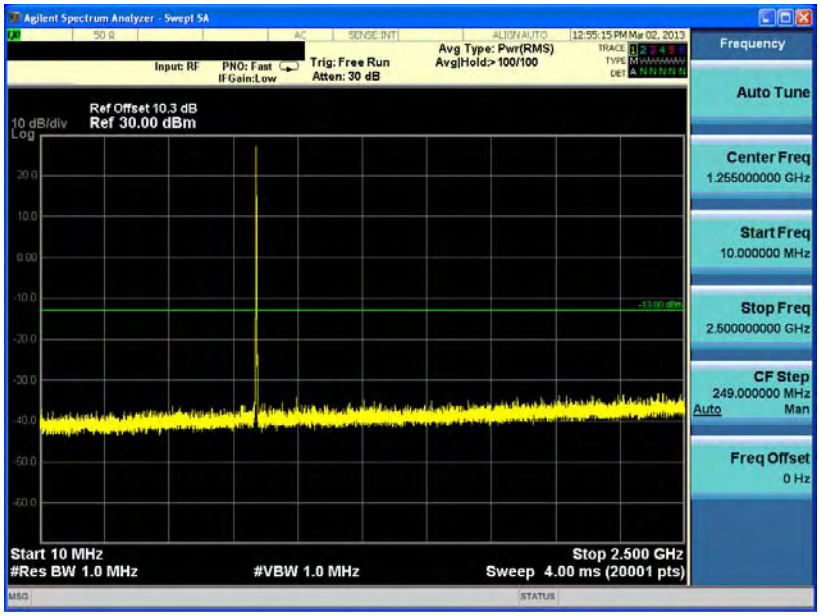
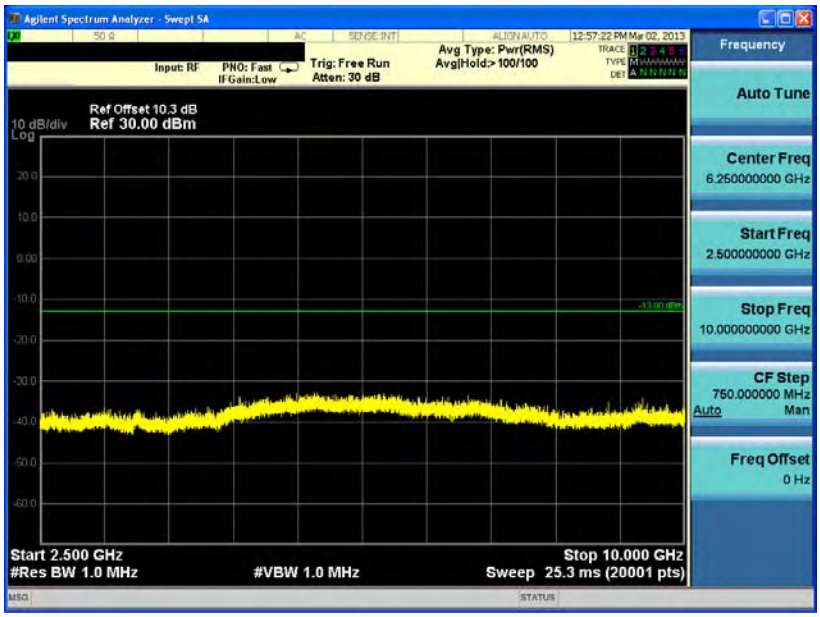
LTE Band 26 (Channel Bandwidth: 3 MHz) _ QPSK	
818.5 MHz	 

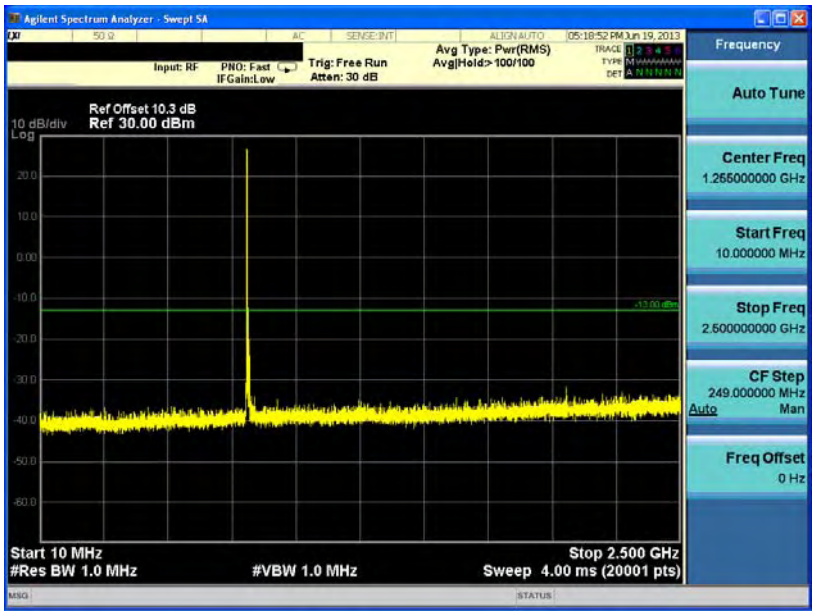
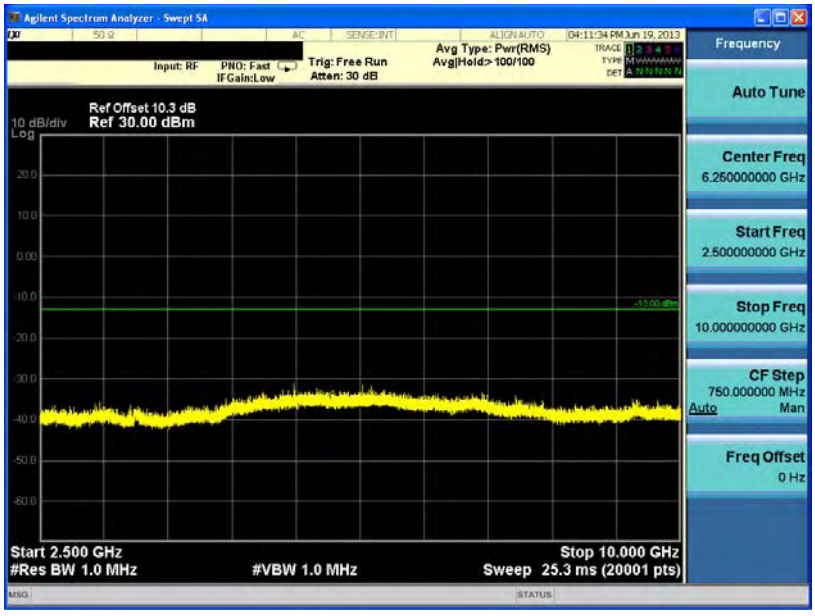
LTE Band 26 (Channel Bandwidth: 3 MHz) _ QPSK	
831.5 MHz	 

LTE Band 26 (Channel Bandwidth: 3 MHz) _ QPSK	
847.5 MHz	
	

LTE Band 26 (Channel Bandwidth: 5 MHz) _ QPSK	
820.5 MHz	
	

LTE Band 26 (Channel Bandwidth: 5 MHz) _ QPSK	
831.5 MHz	 

LTE Band 26 (Channel Bandwidth: 5 MHz) _ QPSK	
846.5 MHz	
	

LTE Band 26 (Channel Bandwidth: 10 MHz) _ QPSK	
822.0 MHz	 

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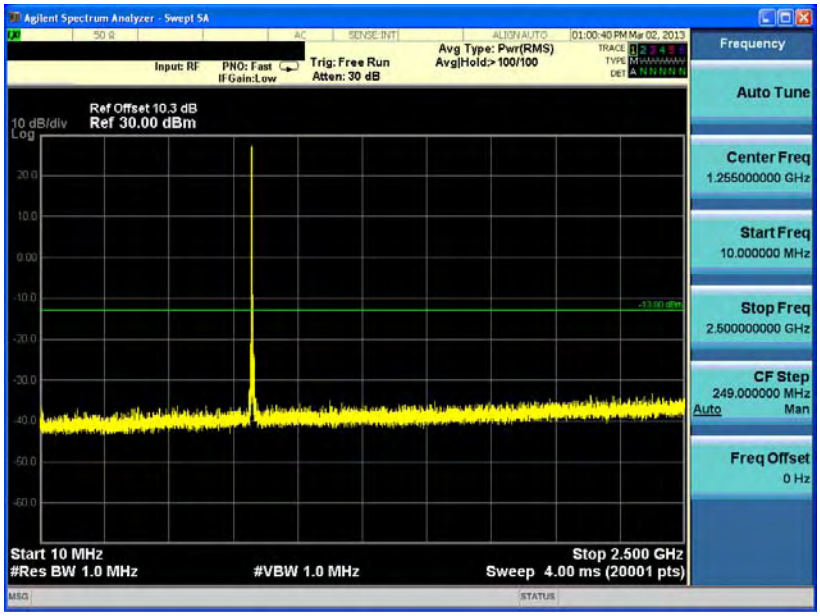
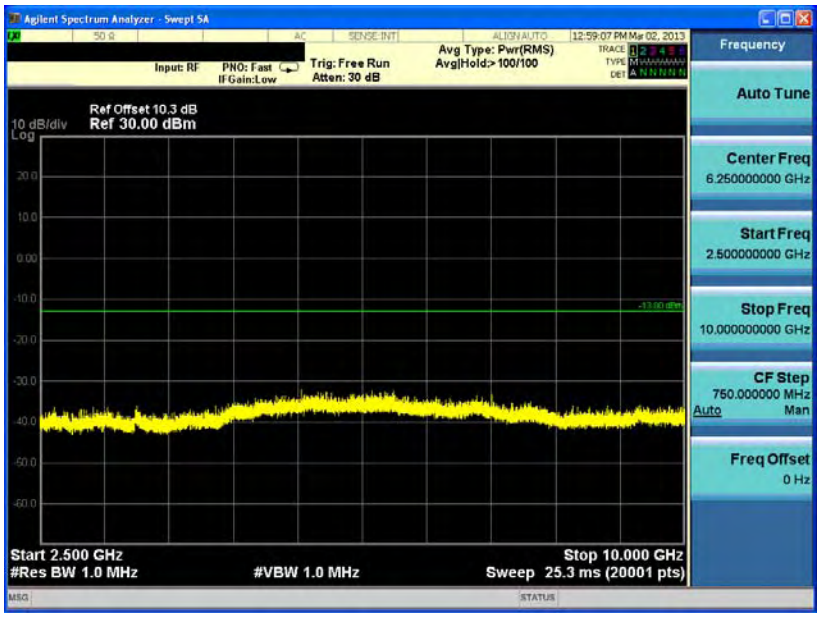
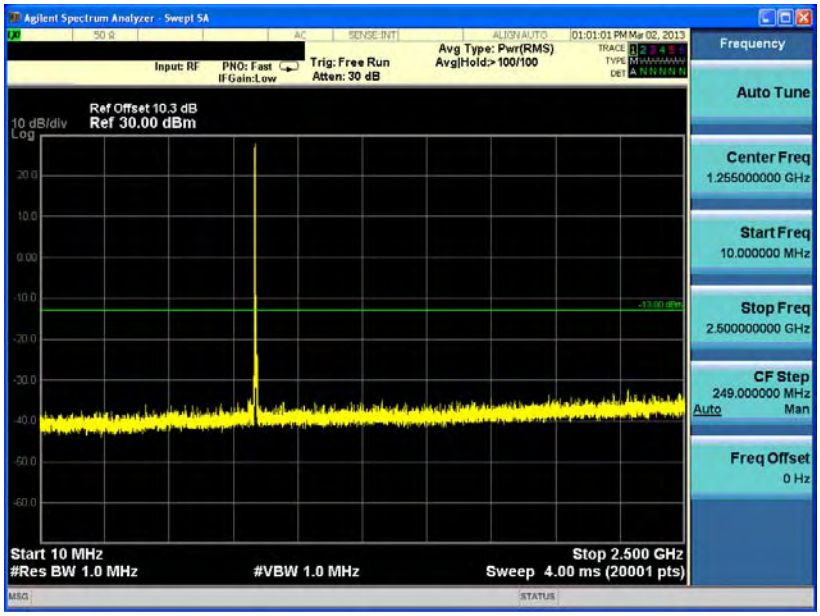
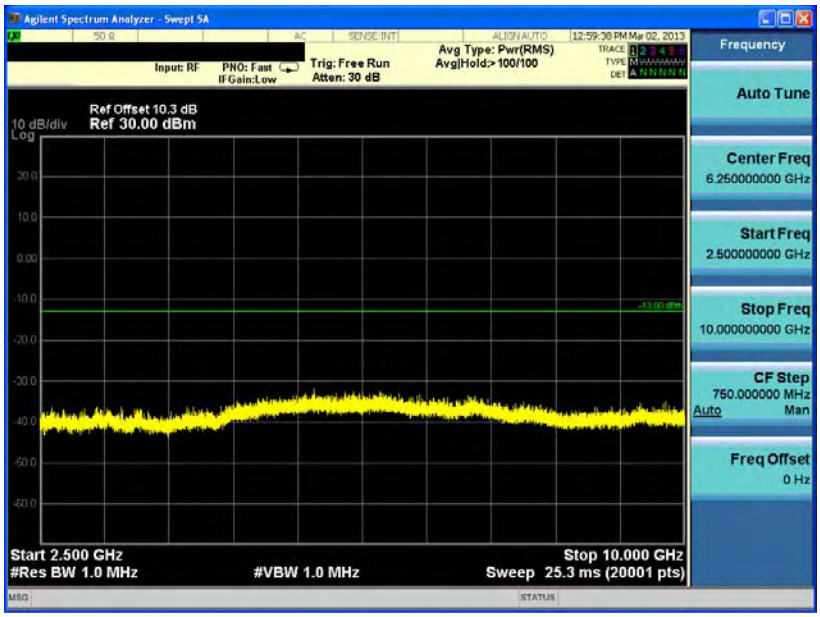
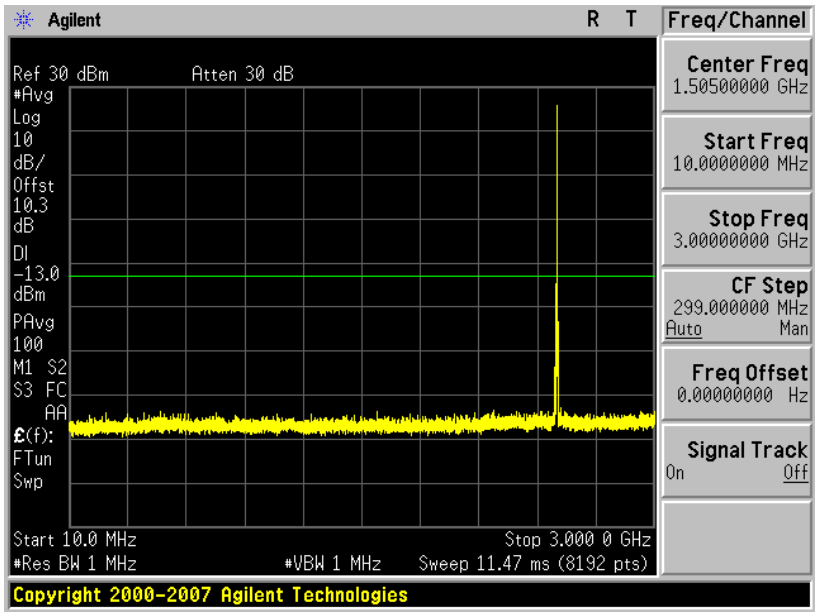
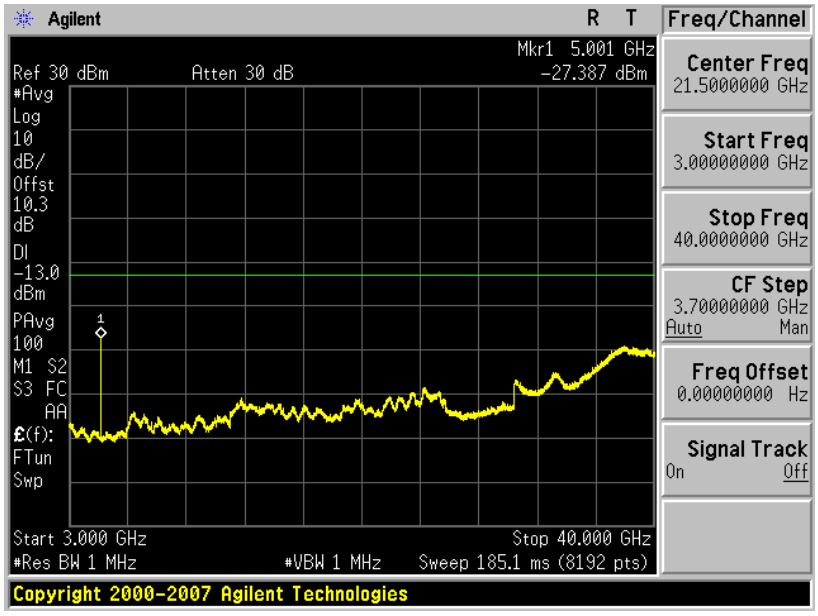
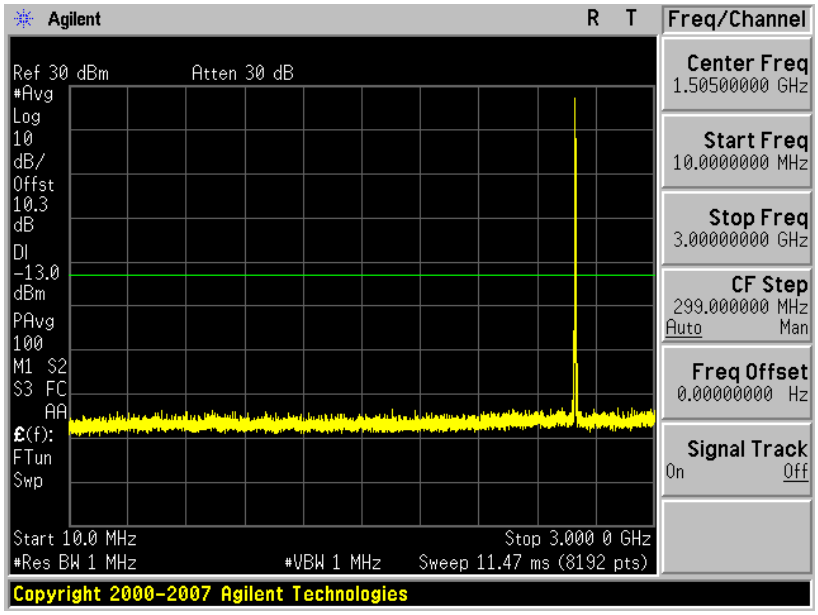
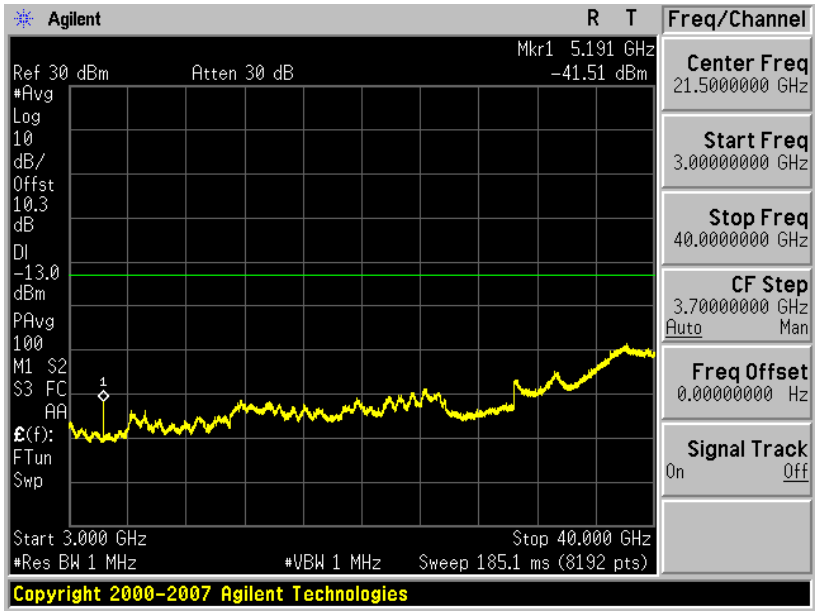
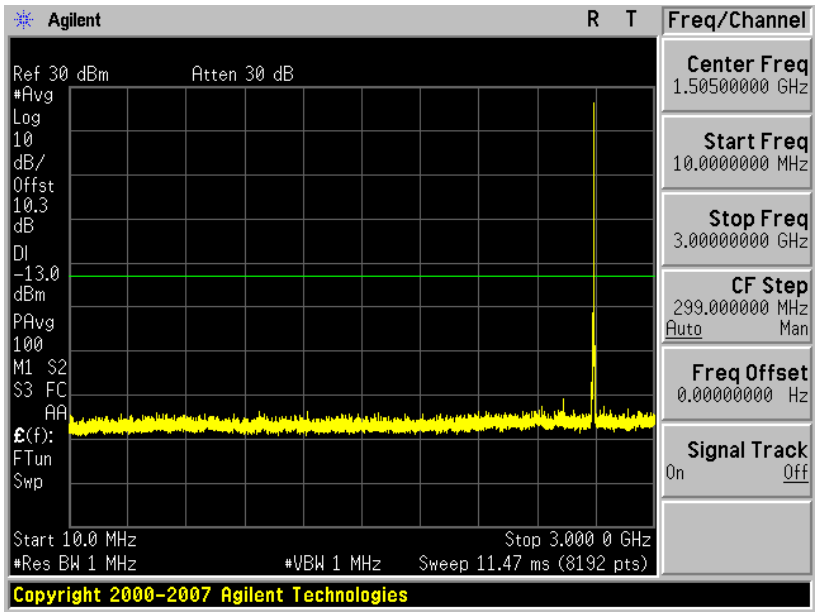
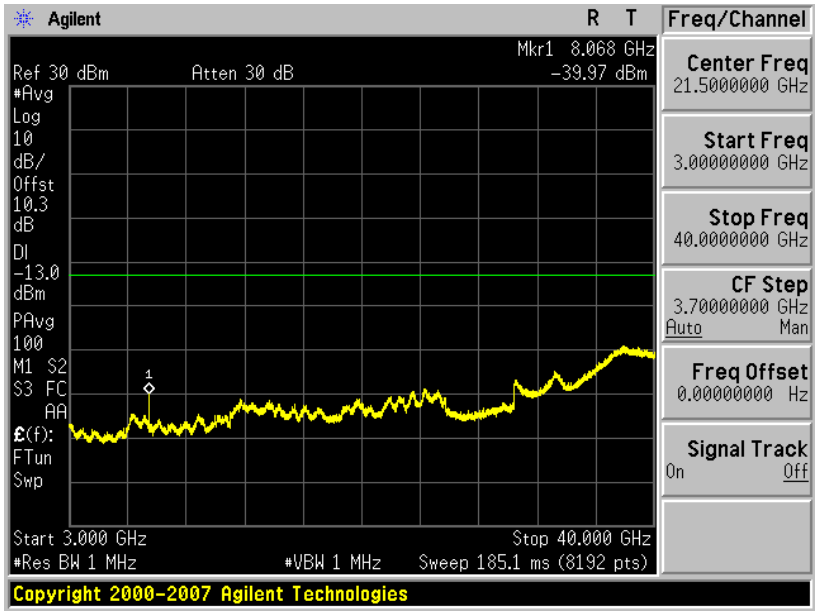
831.5 MHz	
	

LTE Band 26 (Channel Bandwidth: 10 MHz) _ QPSK	
844.0 MHz	
	

LTE Band 41 (Channel Bandwidth: 5 MHz) _ QPSK	
2498.5 MHz	 

LTE Band 41 (Channel Bandwidth: 5 MHz) _ QPSK	
2593.0 MHz	 

LTE Band 41 (Channel Bandwidth: 5 MHz) _ QPSK	
2687.5 MHz	 

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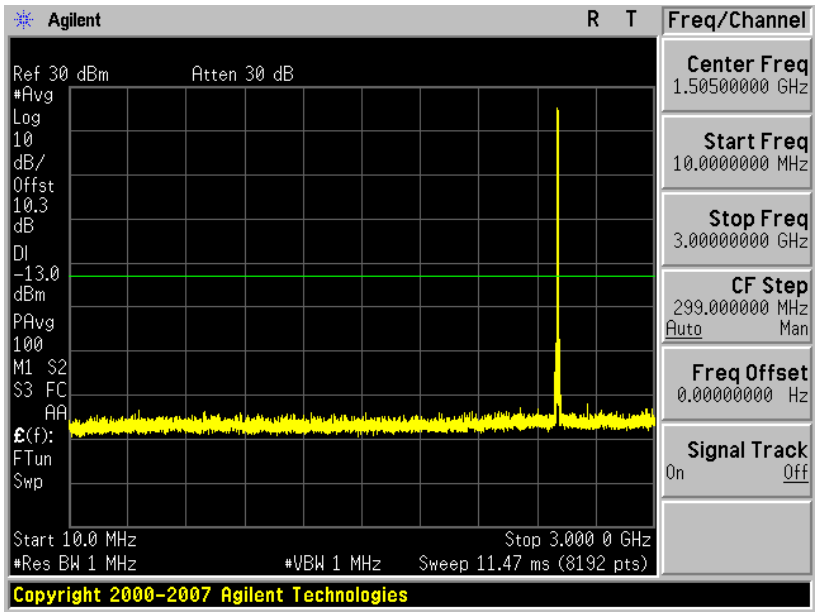
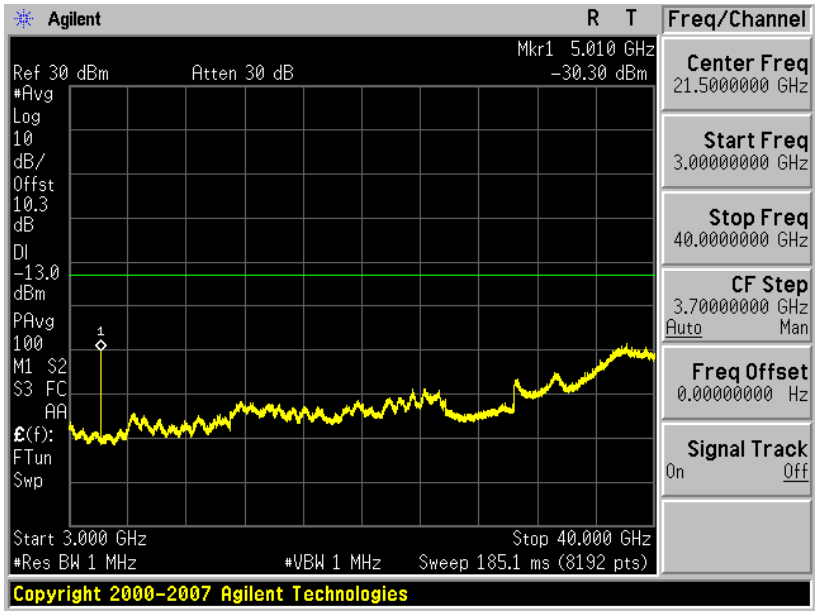
2501.0 MHz	 

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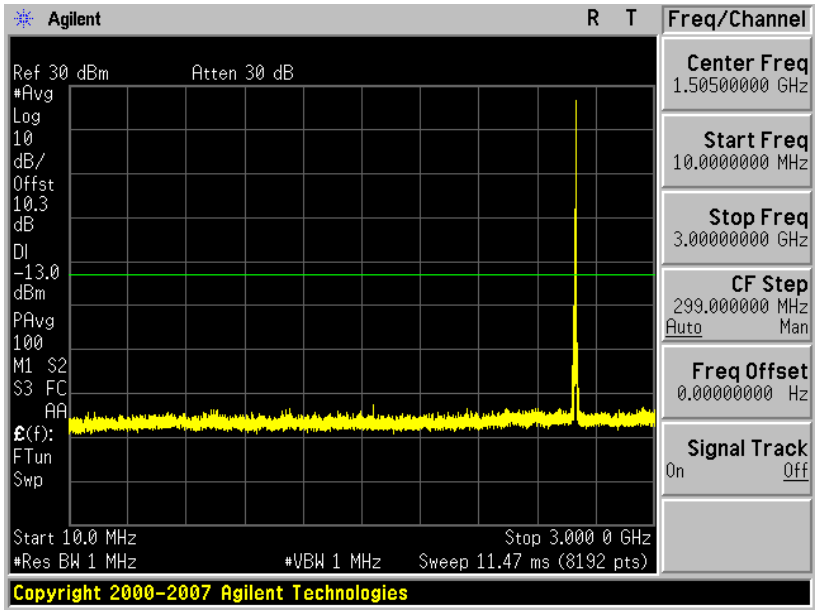
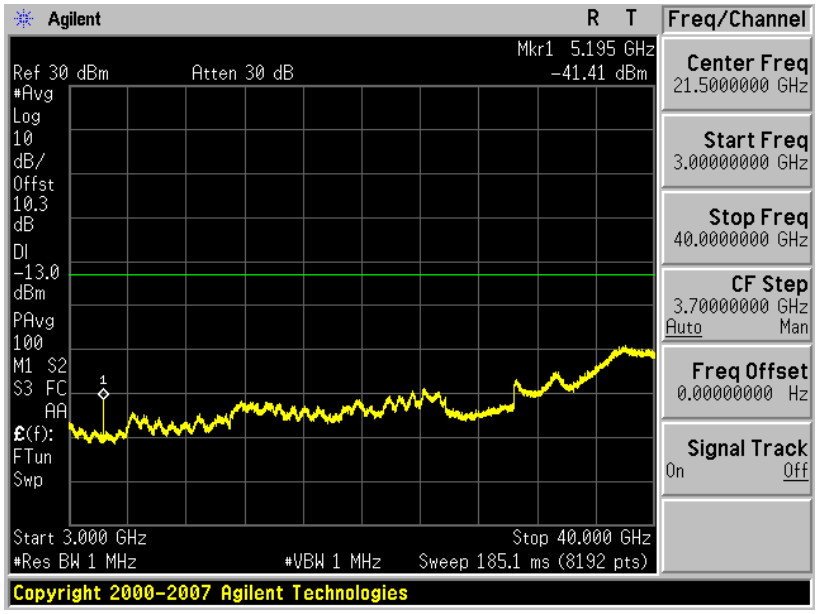
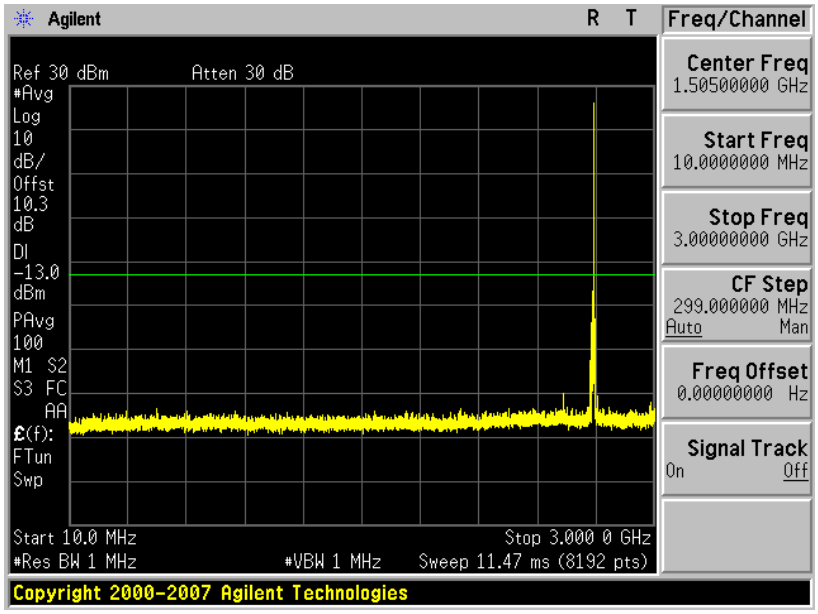
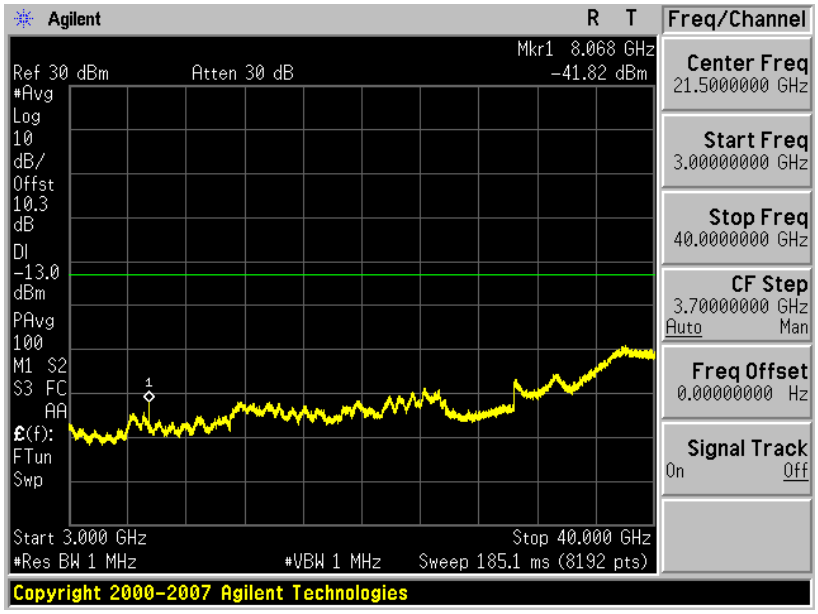
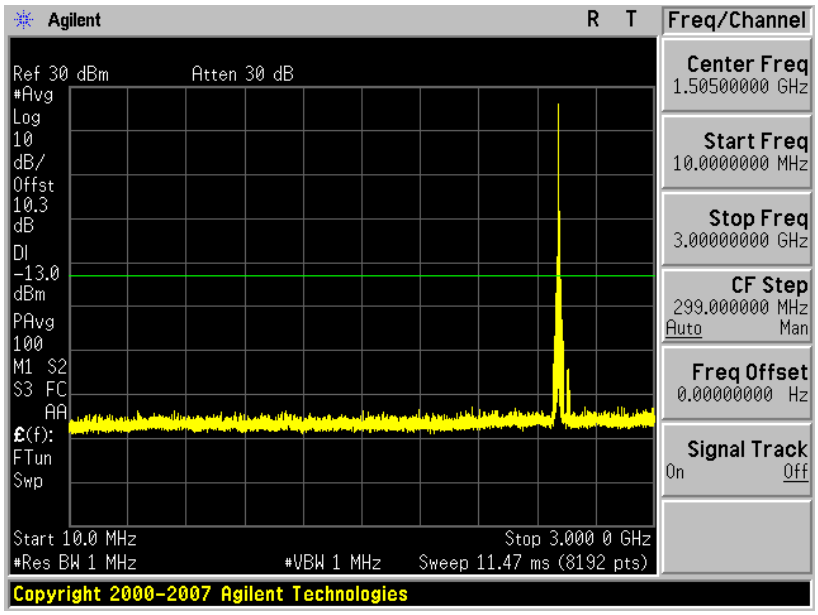
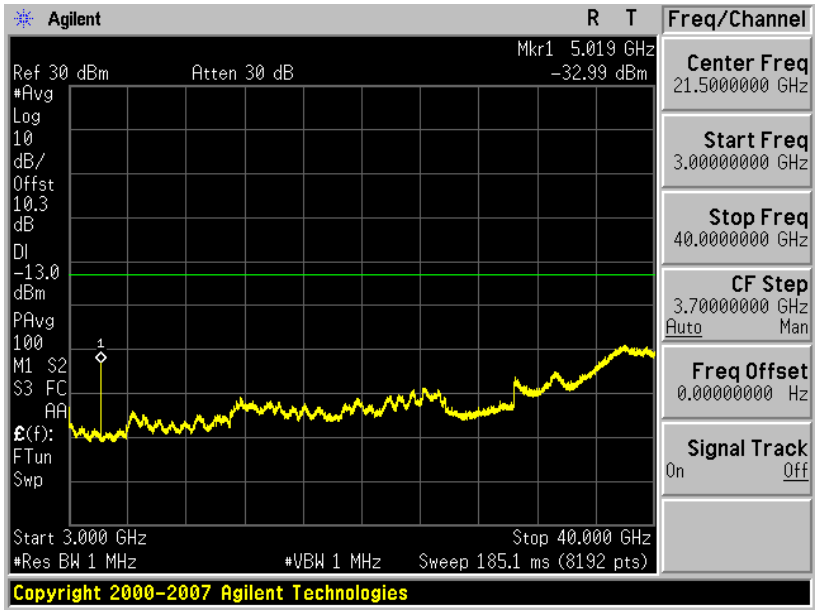
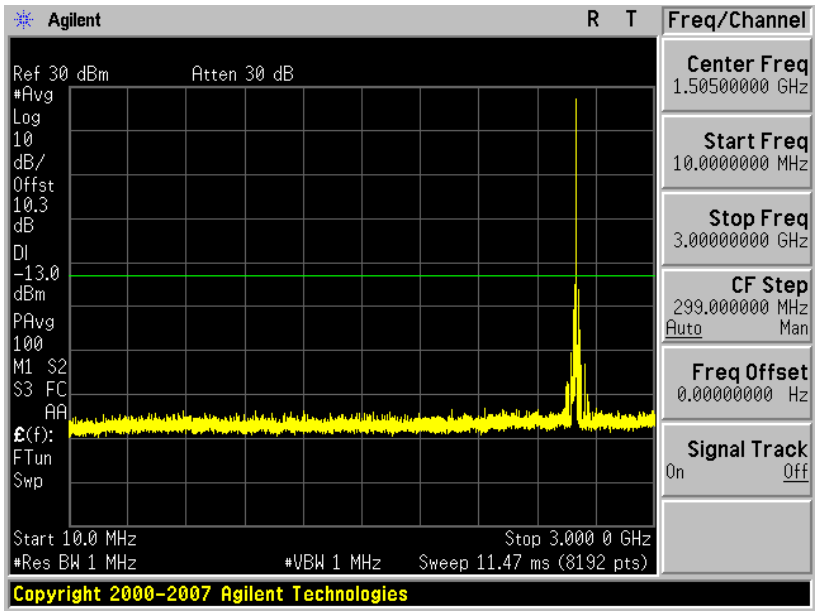
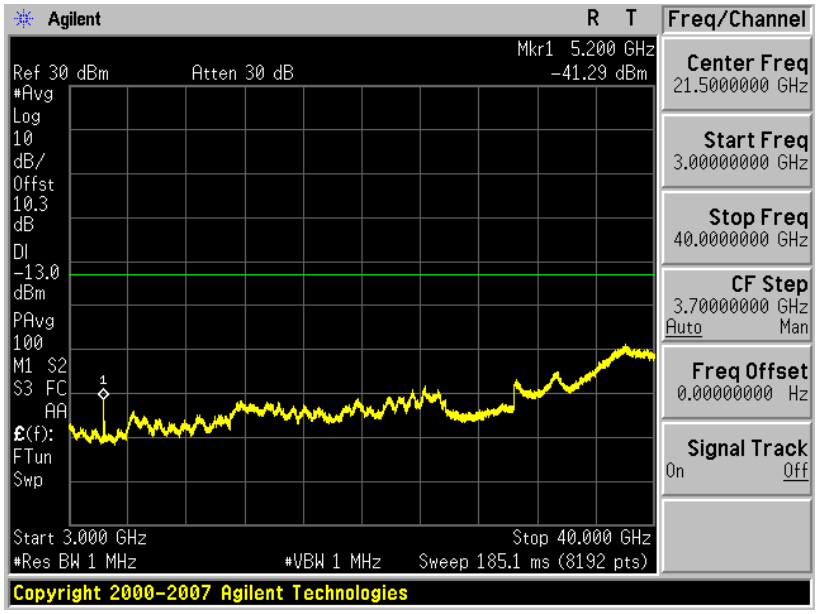
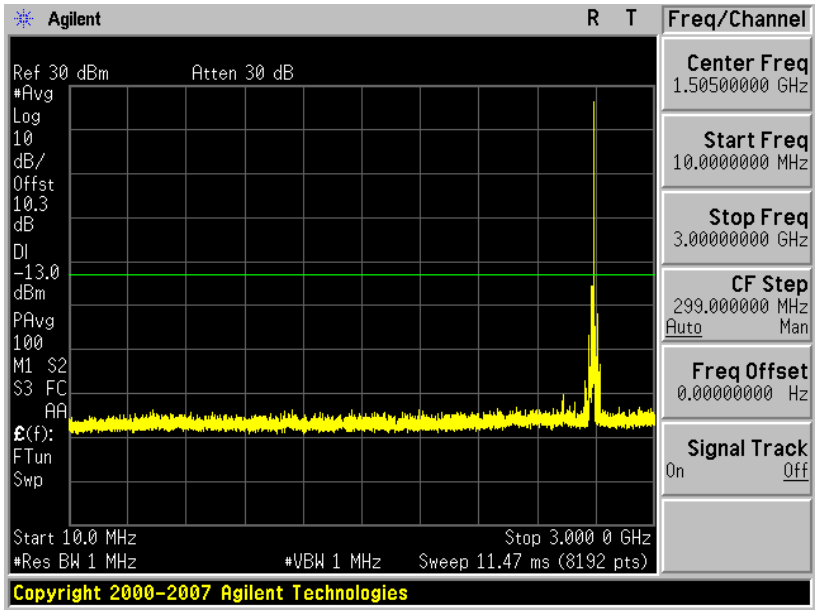
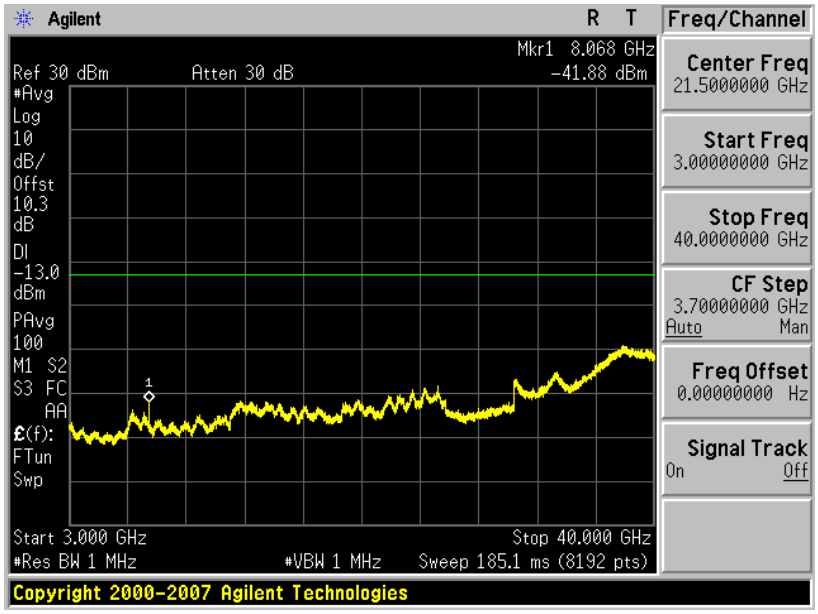
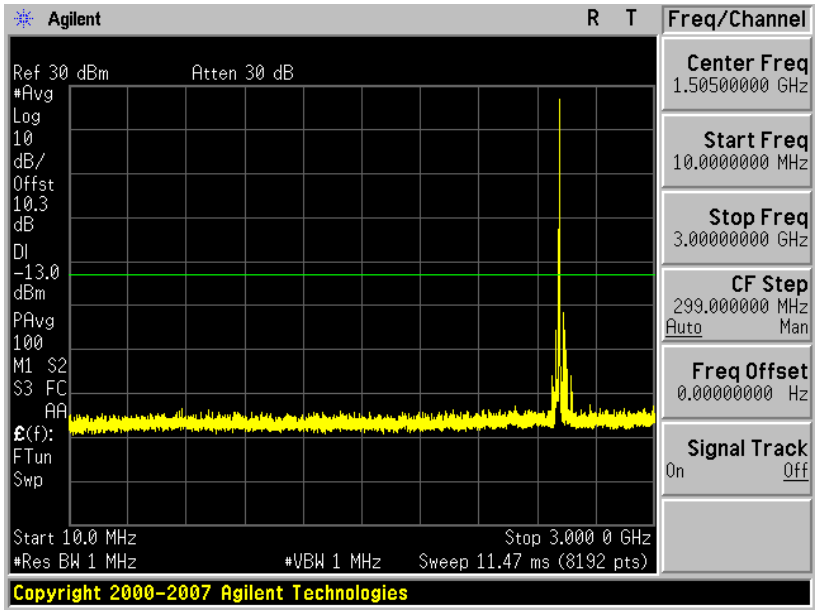
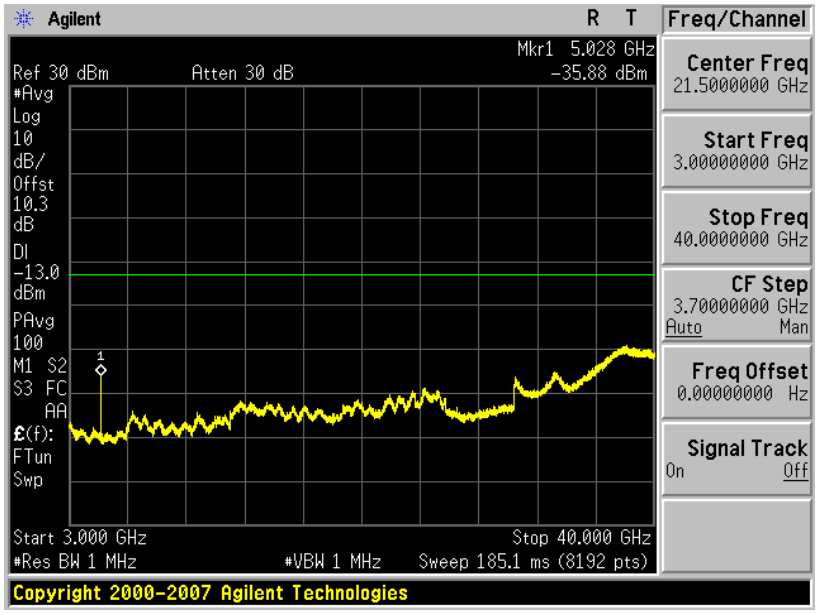
2593.0 MHz	 

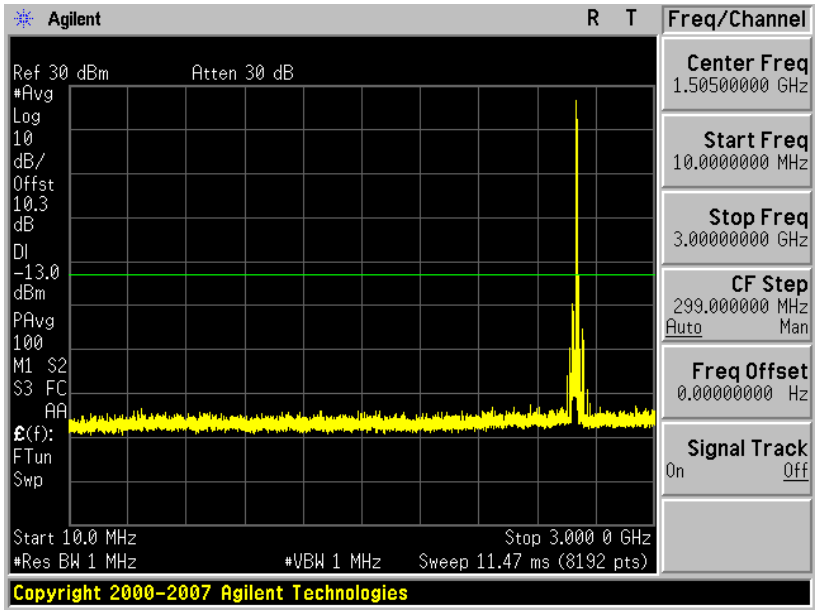
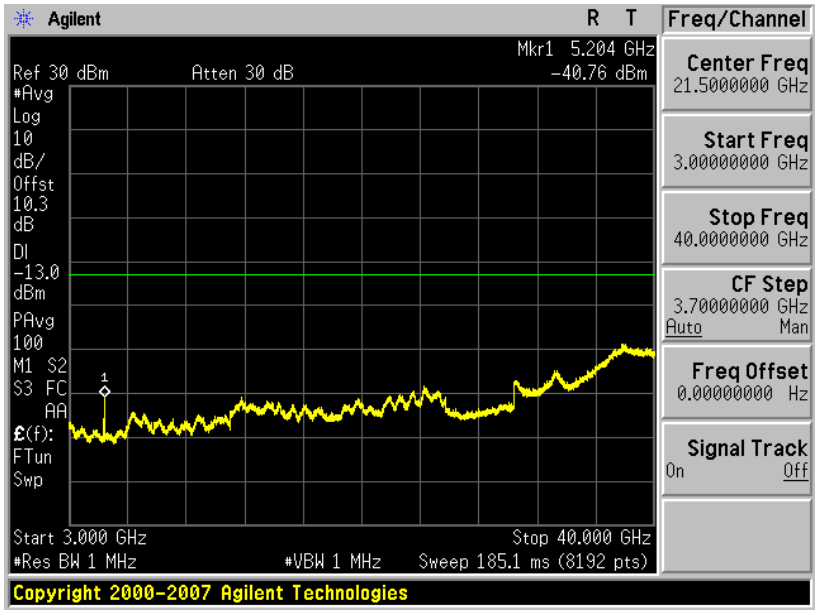
LTE Band 41 (Channel Bandwidth: 10 MHz) _ QPSK	
2685.0 MHz	 

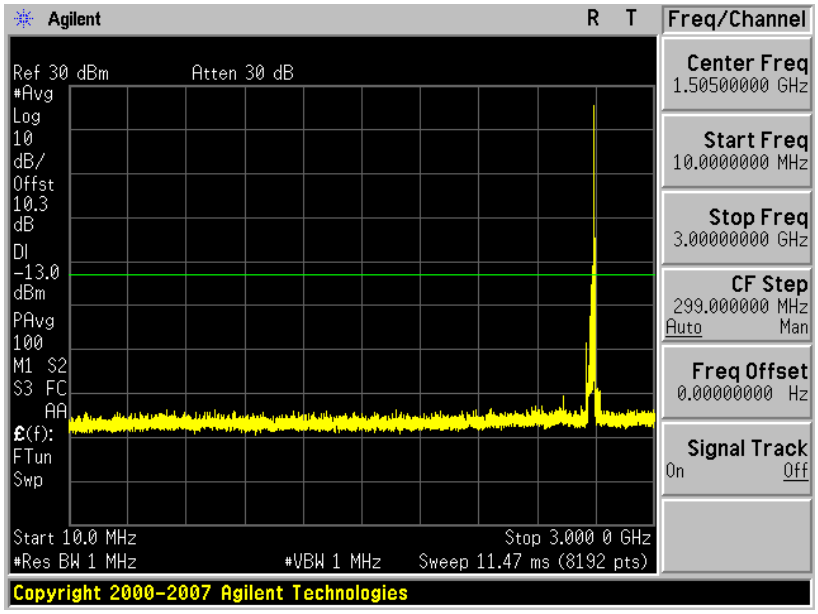
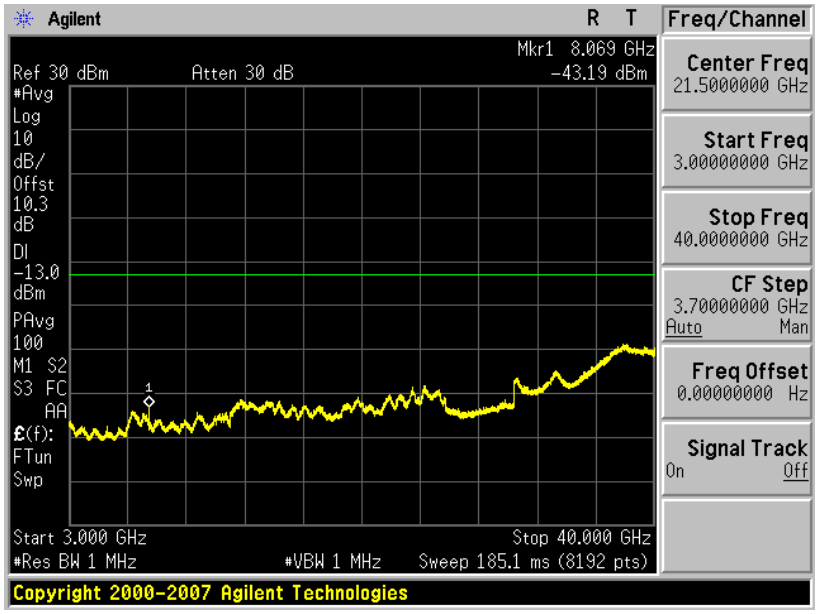
LTE Band 41 (Channel Bandwidth: 15 MHz) _ QPSK	
2503.5 MHz	 

LTE Band 41 (Channel Bandwidth: 15 MHz) _ QPSK	
2593.0 MHz	 

LTE Band 41 (Channel Bandwidth: 15 MHz) _ QPSK	
2682.5 MHz	 

LTE Band 41 (Channel Bandwidth: 20 MHz) _ QPSK	
2506.0 MHz	 

LTE Band 41 (Channel Bandwidth: 20 MHz) _ QPSK	
2593.0 MHz	 

LTE Band 41 (Channel Bandwidth: 20 MHz) _ QPSK	
2680.0 MHz	
	

9 Field Strength of Spurious Radiation Test

9.1. Limit

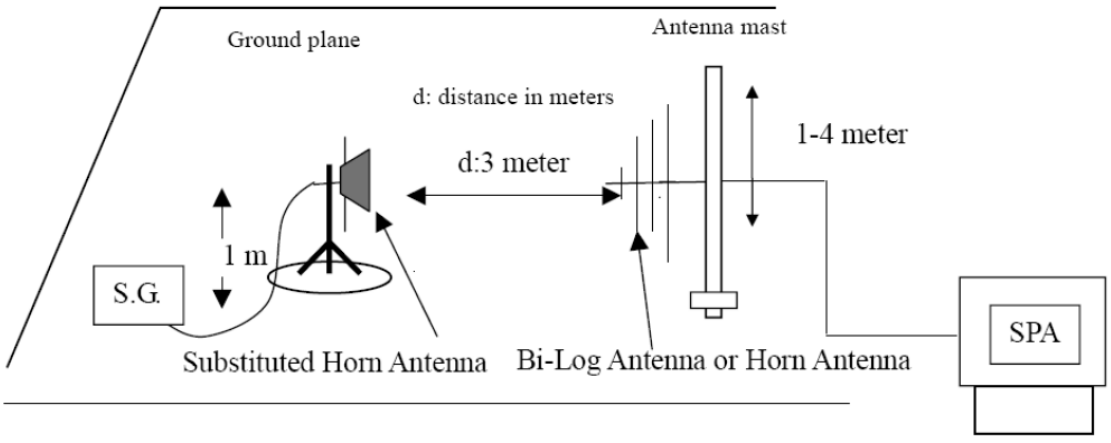
§22.917 (e) and §24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.
§27.53 (g) For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.
§27.53 (h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.

9.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/21/2013	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/21/2013	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2013	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2013	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/29/2012	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/15/2012	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/21/2012	(1)
Test Site	ATL	TE01	888001	08/28/2012	(1)

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

9.3. Setup



9.4. Test Procedure

a. Pre Scan has been conducted and radiation three axis to determine the worst case mode all possible combinations between available modulations.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
e. Repeat step a ~ c for horizontal polarization.

Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

9.5. Uncertainty

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

9.6. Test Result

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1851.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.0000	-57.76	-0.32	-58.08	-13.00	-45.08	peak	H
2	150.5000	-57.19	-1.59	-58.78	-13.00	-45.78	peak	H
3	211.0000	-51.42	0.52	-50.90	-13.00	-37.90	peak	H
4	296.5000	-75.02	-2.71	-77.73	-13.00	-64.73	peak	H
5	362.5000	-75.27	0.15	-75.12	-13.00	-62.12	peak	H
6	543.0000	-79.99	8.19	-71.80	-13.00	-58.80	peak	H
7	3328.000	-70.64	18.62	-52.02	-13.00	-39.02	peak	H
8	4684.000	-71.67	22.06	-49.61	-13.00	-36.61	peak	H
9	6532.000	-72.69	30.61	-42.08	-13.00	-29.08	peak	H
1	141.0000	-52.21	8.84	-43.37	-13.00	-30.37	peak	V
2	212.0000	-59.08	8.22	-50.86	-13.00	-37.86	peak	V
3	282.5000	-72.13	1.13	-71.00	-13.00	-58.00	peak	V
4	363.0000	-77.00	2.31	-74.69	-13.00	-61.69	peak	V
5	503.0000	-78.55	2.79	-75.76	-13.00	-62.76	peak	V
6	729.5000	-80.72	10.68	-70.04	-13.00	-57.04	peak	V
7	3184.000	-68.87	21.28	-47.59	-13.00	-34.59	peak	V
8	4708.000	-74.10	26.57	-47.53	-13.00	-34.53	peak	V
9	6940.000	-72.25	30.41	-41.84	-13.00	-28.84	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1882.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.5000	-57.63	-0.14	-57.77	-13.00	-44.77	peak	H
2	151.0000	-56.78	-1.41	-58.19	-13.00	-45.19	peak	H
3	211.5000	-56.06	0.47	-55.59	-13.00	-42.59	peak	H
4	299.0000	-75.27	-2.45	-77.72	-13.00	-64.72	peak	H
5	353.5000	-75.25	-0.15	-75.40	-13.00	-62.40	peak	H
6	628.0000	-80.27	7.36	-72.91	-13.00	-59.91	peak	H
7	3100.000	-69.58	18.01	-51.57	-13.00	-38.57	peak	H
8	4636.000	-72.41	21.80	-50.61	-13.00	-37.61	peak	H
9	6604.000	-73.80	30.93	-42.87	-13.00	-29.87	peak	H
1	141.0000	-50.65	8.84	-41.81	-13.00	-28.81	peak	V
2	211.0000	-58.98	8.58	-50.40	-13.00	-37.40	peak	V
3	281.0000	-71.27	1.00	-70.27	-13.00	-57.27	peak	V
4	362.0000	-77.07	2.35	-74.72	-13.00	-61.72	peak	V
5	493.0000	-77.29	2.62	-74.67	-13.00	-61.67	peak	V
6	737.5000	-81.01	10.53	-70.48	-13.00	-57.48	peak	V
7	3052.000	-69.48	20.53	-48.95	-13.00	-35.95	peak	V
8	4672.000	-72.34	26.52	-45.82	-13.00	-32.82	peak	V
9	7012.000	-73.08	30.58	-42.50	-13.00	-29.50	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1913.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	90.5000	-58.08	-0.07	-58.15	-13.00	-45.15	peak	H
2	141.0000	-52.45	-4.46	-56.91	-13.00	-43.91	peak	H
3	211.5000	-51.82	0.47	-51.35	-13.00	-38.35	peak	H
4	365.5000	-77.22	0.25	-76.97	-13.00	-63.97	peak	H
5	529.0000	-80.91	7.94	-72.97	-13.00	-59.97	peak	H
6	756.5000	-80.88	8.94	-71.94	-13.00	-58.94	peak	H
7	3040.000	-70.59	17.85	-52.74	-13.00	-39.74	peak	H
8	4756.000	-74.25	22.45	-51.80	-13.00	-38.80	peak	H
9	6736.000	-73.46	31.50	-41.96	-13.00	-28.96	peak	H
1	141.0000	-52.79	8.84	-43.95	-13.00	-30.95	peak	V
2	212.0000	-59.49	8.22	-51.27	-13.00	-38.27	peak	V
3	281.5000	-71.16	1.04	-70.12	-13.00	-57.12	peak	V
4	365.5000	-74.30	2.21	-72.09	-13.00	-59.09	peak	V
5	498.0000	-77.36	2.71	-74.65	-13.00	-61.65	peak	V
6	712.0000	-79.98	10.59	-69.39	-13.00	-56.39	peak	V
7	3124.000	-70.11	20.95	-49.16	-13.00	-36.16	peak	V
8	4732.000	-72.20	26.62	-45.58	-13.00	-32.58	peak	V
9	7108.000	-73.63	30.68	-42.95	-13.00	-29.95	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	1851.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.0000	-57.76	-0.32	-58.08	-13.00	-45.08	peak	H
2	150.5000	-57.19	-1.59	-58.78	-13.00	-45.78	peak	H
3	211.0000	-51.42	0.52	-50.90	-13.00	-37.90	peak	H
4	296.5000	-75.02	-2.71	-77.73	-13.00	-64.73	peak	H
5	362.5000	-75.27	0.15	-75.12	-13.00	-62.12	peak	H
6	543.0000	-79.99	8.19	-71.80	-13.00	-58.80	peak	H
7	3328.000	-70.64	18.62	-52.02	-13.00	-39.02	peak	H
8	4684.000	-71.67	22.06	-49.61	-13.00	-36.61	peak	H
9	6532.000	-72.69	30.61	-42.08	-13.00	-29.08	peak	H
1	141.0000	-52.21	8.84	-43.37	-13.00	-30.37	peak	V
2	212.0000	-59.08	8.22	-50.86	-13.00	-37.86	peak	V
3	282.5000	-72.13	1.13	-71.00	-13.00	-58.00	peak	V
4	363.0000	-77.00	2.31	-74.69	-13.00	-61.69	peak	V
5	503.0000	-78.55	2.79	-75.76	-13.00	-62.76	peak	V
6	729.5000	-80.72	10.68	-70.04	-13.00	-57.04	peak	V
7	3184.000	-68.87	21.28	-47.59	-13.00	-34.59	peak	V
8	4708.000	-74.10	26.57	-47.53	-13.00	-34.53	peak	V
9	6940.000	-72.25	30.41	-41.84	-13.00	-28.84	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1852.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-67.97	0.28	-67.69	-13.00	-54.69	peak	H
2	287.0000	-80.54	-3.64	-84.18	-13.00	-71.18	peak	H
3	460.0000	-80.88	4.62	-76.26	-13.00	-63.26	peak	H
4	590.0000	-80.09	7.77	-72.32	-13.00	-59.32	peak	H
5	757.5000	-81.86	8.97	-72.89	-13.00	-59.89	peak	H
6	881.0000	-82.14	13.25	-68.89	-13.00	-55.89	peak	H
7	3496.000	-70.85	19.08	-51.77	-13.00	-38.77	peak	H
8	5428.000	-71.47	25.73	-45.74	-13.00	-32.74	peak	H
9	6844.000	-71.74	31.98	-39.76	-13.00	-26.76	peak	H
1	130.0000	-75.73	14.37	-61.36	-13.00	-48.36	peak	V
2	288.5000	-81.81	1.67	-80.14	-13.00	-67.14	peak	V
3	434.5000	-79.63	1.43	-78.20	-13.00	-65.20	peak	V
4	572.0000	-81.71	5.30	-76.41	-13.00	-63.41	peak	V
5	728.0000	-82.13	10.72	-71.41	-13.00	-58.41	peak	V
6	890.0000	-82.04	10.74	-71.30	-13.00	-58.30	peak	V
7	2884.000	-68.96	19.39	-49.57	-13.00	-36.57	peak	V
8	5140.000	-71.16	27.32	-43.84	-13.00	-30.84	peak	V
9	6820.000	-72.04	30.10	-41.94	-13.00	-28.94	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1882.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	163.0000	-68.12	-0.88	-69.00	-13.00	-56.00	peak	H
2	316.5000	-81.80	-1.18	-82.98	-13.00	-69.98	peak	H
3	516.5000	-81.40	7.54	-73.86	-13.00	-60.86	peak	H
4	648.5000	-80.85	6.95	-73.90	-13.00	-60.90	peak	H
5	820.5000	-81.56	11.92	-69.64	-13.00	-56.64	peak	H
6	953.0000	-82.37	14.84	-67.53	-13.00	-54.53	peak	H
7	3304.000	-69.49	18.55	-50.94	-13.00	-37.94	peak	H
8	5164.000	-72.15	24.52	-47.63	-13.00	-34.63	peak	H
9	6724.000	-72.28	31.45	-40.83	-13.00	-27.83	peak	H
1	132.5000	-73.42	13.02	-60.40	-13.00	-47.40	peak	V
2	304.0000	-81.67	2.37	-79.30	-13.00	-66.30	peak	V
3	424.5000	-80.40	1.37	-79.03	-13.00	-66.03	peak	V
4	606.0000	-81.77	7.89	-73.88	-13.00	-60.88	peak	V
5	740.0000	-81.02	10.49	-70.53	-13.00	-57.53	peak	V
6	887.5000	-81.48	10.77	-70.71	-13.00	-57.71	peak	V
7	3292.000	-69.25	21.91	-47.34	-13.00	-34.34	peak	V
8	5176.000	-71.37	27.37	-44.00	-13.00	-31.00	peak	V
9	6676.000	-72.42	29.69	-42.73	-13.00	-29.73	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1912.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	158.0000	-66.29	0.82	-65.47	-13.00	-52.47	peak	H
2	325.0000	-81.78	-0.83	-82.61	-13.00	-69.61	peak	H
3	457.5000	-81.81	4.53	-77.28	-13.00	-64.28	peak	H
4	609.5000	-81.77	7.82	-73.95	-13.00	-60.95	peak	H
5	761.0000	-81.91	9.13	-72.78	-13.00	-59.78	peak	H
6	933.0000	-82.46	14.82	-67.64	-13.00	-54.64	peak	H
7	3280.000	-69.63	18.49	-51.14	-13.00	-38.14	peak	H
8	5236.000	-72.29	24.84	-47.45	-13.00	-34.45	peak	H
9	6724.000	-70.69	31.45	-39.24	-13.00	-26.24	peak	H
1	130.5000	-71.31	14.10	-57.21	-13.00	-44.21	peak	V
2	289.0000	-81.68	1.71	-79.97	-13.00	-66.97	peak	V
3	440.0000	-80.89	1.45	-79.44	-13.00	-66.44	peak	V
4	597.5000	-80.76	7.26	-73.50	-13.00	-60.50	peak	V
5	715.5000	-81.31	10.70	-70.61	-13.00	-57.61	peak	V
6	873.0000	-80.86	11.14	-69.72	-13.00	-56.72	peak	V
7	3280.000	-69.61	21.83	-47.78	-13.00	-34.78	peak	V
8	5512.000	-71.54	27.85	-43.69	-13.00	-30.69	peak	V
9	6628.000	-71.75	29.56	-42.19	-13.00	-29.19	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	1852.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-68.94	0.28	-68.66	-13.00	-55.66	peak	H
2	301.0000	-82.19	-2.29	-84.48	-13.00	-71.48	peak	H
3	453.0000	-81.54	4.36	-77.18	-13.00	-64.18	peak	H
4	607.0000	-81.22	7.86	-73.36	-13.00	-60.36	peak	H
5	761.5000	-81.95	9.18	-72.77	-13.00	-59.77	peak	H
6	899.5000	-81.91	14.04	-67.87	-13.00	-54.87	peak	H
7	3832.000	-69.33	19.83	-49.50	-13.00	-36.50	peak	H
8	5560.000	-72.36	26.29	-46.07	-13.00	-33.07	peak	H
9	6736.000	-71.35	31.50	-39.85	-13.00	-26.85	peak	H
1	130.5000	-72.57	14.10	-58.47	-13.00	-45.47	peak	V
2	258.5000	-81.56	-1.46	-83.02	-13.00	-70.02	peak	V
3	388.5000	-81.73	1.50	-80.23	-13.00	-67.23	peak	V
4	525.0000	-80.95	3.40	-77.55	-13.00	-64.55	peak	V
5	672.0000	-79.93	9.49	-70.44	-13.00	-57.44	peak	V
6	836.5000	-82.38	11.34	-71.04	-13.00	-58.04	peak	V
7	2836.000	-68.73	19.05	-49.68	-13.00	-36.68	peak	V
8	5068.000	-71.36	27.21	-44.15	-13.00	-31.15	peak	V
9	6796.000	-71.84	30.02	-41.82	-13.00	-28.82	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1855.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.5000	-67.99	1.30	-66.69	-13.00	-53.69	peak	H
2	287.0000	-78.84	-3.64	-82.48	-13.00	-69.48	peak	H
3	457.0000	-80.98	4.50	-76.48	-13.00	-63.48	peak	H
4	646.5000	-80.65	6.93	-73.72	-13.00	-60.72	peak	H
5	789.5000	-81.36	10.70	-70.66	-13.00	-57.66	peak	H
6	952.0000	-80.58	14.85	-65.73	-13.00	-52.73	peak	H
7	3796.000	-69.67	19.74	-49.93	-13.00	-36.93	peak	H
8	5332.000	-70.14	25.28	-44.86	-13.00	-31.86	peak	H
9	6700.000	-71.04	31.34	-39.70	-13.00	-26.70	peak	H
1	131.0000	-74.59	13.83	-60.76	-13.00	-47.76	peak	V
2	304.0000	-80.52	2.37	-78.15	-13.00	-65.15	peak	V
3	442.5000	-80.17	1.48	-78.69	-13.00	-65.69	peak	V
4	627.0000	-81.95	8.79	-73.16	-13.00	-60.16	peak	V
5	756.0000	-81.58	10.86	-70.72	-13.00	-57.72	peak	V
6	911.5000	-81.38	11.33	-70.05	-13.00	-57.05	peak	V
7	3412.000	-70.38	22.59	-47.79	-13.00	-34.79	peak	V
8	5260.000	-71.93	27.49	-44.44	-13.00	-31.44	peak	V
9	6784.000	-72.19	29.99	-42.20	-13.00	-29.20	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1882.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.5000	-65.59	0.28	-65.31	-13.00	-52.31	peak	H
2	298.5000	-80.27	-2.51	-82.78	-13.00	-69.78	peak	H
3	472.5000	-80.63	5.31	-75.32	-13.00	-62.32	peak	H
4	636.5000	-79.89	6.97	-72.92	-13.00	-59.92	peak	H
5	779.5000	-80.96	10.17	-70.79	-13.00	-57.79	peak	H
6	909.0000	-81.78	14.37	-67.41	-13.00	-54.41	peak	H
7	3748.000	-68.90	19.64	-49.26	-13.00	-36.26	peak	H
8	5380.000	-70.98	25.50	-45.48	-13.00	-32.48	peak	H
9	6736.000	-72.08	31.50	-40.58	-13.00	-27.58	peak	H
1	133.0000	-72.53	12.74	-59.79	-13.00	-46.79	peak	V
2	296.5000	-81.79	2.39	-79.40	-13.00	-66.40	peak	V
3	417.5000	-80.67	1.34	-79.33	-13.00	-66.33	peak	V
4	569.5000	-81.15	5.10	-76.05	-13.00	-63.05	peak	V
5	703.0000	-80.25	10.29	-69.96	-13.00	-56.96	peak	V
6	855.5000	-80.64	11.55	-69.09	-13.00	-56.09	peak	V
7	2800.000	-69.35	18.79	-50.56	-13.00	-37.56	peak	V
8	5080.000	-70.56	27.23	-43.33	-13.00	-30.33	peak	V
9	6664.000	-71.77	29.66	-42.11	-13.00	-29.11	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	1910.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	158.5000	-67.68	0.97	-66.71	-13.00	-53.71	peak	H
2	289.5000	-79.33	-3.39	-82.72	-13.00	-69.72	peak	H
3	431.0000	-81.31	3.69	-77.62	-13.00	-64.62	peak	H
4	557.5000	-80.29	7.86	-72.43	-13.00	-59.43	peak	H
5	707.0000	-82.01	7.14	-74.87	-13.00	-61.87	peak	H
6	858.0000	-82.43	12.93	-69.50	-13.00	-56.50	peak	H
7	3784.000	-69.44	19.72	-49.72	-13.00	-36.72	peak	H
8	5548.000	-71.28	26.24	-45.04	-13.00	-32.04	peak	H
9	6772.000	-72.35	31.66	-40.69	-13.00	-27.69	peak	H
1	129.5000	-76.27	13.88	-62.39	-13.00	-49.39	peak	V
2	290.0000	-82.68	1.81	-80.87	-13.00	-67.87	peak	V
3	395.5000	-80.53	1.39	-79.14	-13.00	-66.14	peak	V
4	568.5000	-79.70	5.02	-74.68	-13.00	-61.68	peak	V
5	709.5000	-81.38	10.51	-70.87	-13.00	-57.87	peak	V
6	873.5000	-80.71	11.12	-69.59	-13.00	-56.59	peak	V
7	2860.000	-67.97	19.22	-48.75	-13.00	-35.75	peak	V
8	5296.000	-70.63	27.54	-43.09	-13.00	-30.09	peak	V
9	6760.000	-72.15	29.92	-42.23	-13.00	-29.23	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 25	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	1855.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	164.0000	-66.87	-1.68	-68.55	-13.00	-55.55	peak	H
2	295.5000	-80.11	-2.80	-82.91	-13.00	-69.91	peak	H
3	447.5000	-81.00	4.17	-76.83	-13.00	-63.83	peak	H
4	612.5000	-80.76	7.80	-72.96	-13.00	-59.96	peak	H
5	735.5000	-82.06	8.04	-74.02	-13.00	-61.02	peak	H
6	911.5000	-82.04	14.45	-67.59	-13.00	-54.59	peak	H
7	3436.000	-69.58	18.90	-50.68	-13.00	-37.68	peak	H
8	5392.000	-71.11	25.55	-45.56	-13.00	-32.56	peak	H
9	6676.000	-71.51	31.23	-40.28	-13.00	-27.28	peak	H
1	133.0000	-72.53	12.74	-59.79	-13.00	-46.79	peak	V
2	282.5000	-81.49	1.13	-80.36	-13.00	-67.36	peak	V
3	423.0000	-81.07	1.35	-79.72	-13.00	-66.72	peak	V
4	554.0000	-80.93	4.34	-76.59	-13.00	-63.59	peak	V
5	715.5000	-81.43	10.70	-70.73	-13.00	-57.73	peak	V
6	862.5000	-82.04	11.52	-70.52	-13.00	-57.52	peak	V
7	2800.000	-69.40	18.79	-50.61	-13.00	-37.61	peak	V
8	4972.000	-71.05	27.06	-43.99	-13.00	-30.99	peak	V
9	6748.000	-72.18	29.89	-42.29	-13.00	-29.29	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	818.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.5000	-58.04	-0.14	-58.18	-13.00	-45.18	peak	H
2	150.5000	-56.00	-1.59	-57.59	-13.00	-44.59	peak	H
3	212.5000	-57.85	0.35	-57.50	-13.00	-44.50	peak	H
4	297.5000	-74.28	-2.60	-76.88	-13.00	-63.88	peak	H
5	356.5000	-76.35	-0.06	-76.41	-13.00	-63.41	peak	H
6	523.0000	-80.49	7.74	-72.75	-13.00	-59.75	peak	H
7	3076.000	-71.26	17.94	-53.32	-13.00	-40.32	peak	H
8	4768.000	-72.22	22.52	-49.70	-13.00	-36.70	peak	H
9	6592.000	-74.68	30.87	-43.81	-13.00	-30.81	peak	H
1	140.5000	-50.22	8.88	-41.34	-13.00	-28.34	peak	V
2	211.0000	-58.02	8.58	-49.44	-13.00	-36.44	peak	V
3	281.0000	-70.50	1.00	-69.50	-13.00	-56.50	peak	V
4	362.0000	-77.05	2.35	-74.70	-13.00	-61.70	peak	V
5	493.5000	-78.18	2.63	-75.55	-13.00	-62.55	peak	V
6	710.0000	-79.49	10.52	-68.97	-13.00	-55.97	peak	V
7	3088.000	-69.65	20.74	-48.91	-13.00	-35.91	peak	V
8	4720.000	-74.08	26.61	-47.47	-13.00	-34.47	peak	V
9	7084.000	-73.85	30.65	-43.20	-13.00	-30.20	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	831.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	90.5000	-57.55	-0.07	-57.62	-13.00	-44.62	peak	H
2	140.5000	-51.91	-4.62	-56.53	-13.00	-43.53	peak	H
3	211.0000	-53.58	0.52	-53.06	-13.00	-40.06	peak	H
4	296.0000	-74.65	-2.76	-77.41	-13.00	-64.41	peak	H
5	361.5000	-75.72	0.11	-75.61	-13.00	-62.61	peak	H
6	553.5000	-80.46	7.96	-72.50	-13.00	-59.50	peak	H
7	3148.000	-70.31	18.14	-52.17	-13.00	-39.17	peak	H
8	4756.000	-72.16	22.45	-49.71	-13.00	-36.71	peak	H
9	6832.000	-74.41	31.93	-42.48	-13.00	-29.48	peak	H
1	141.0000	-50.02	8.84	-41.18	-13.00	-28.18	peak	V
2	212.0000	-58.81	8.22	-50.59	-13.00	-37.59	peak	V
3	281.5000	-69.84	1.04	-68.80	-13.00	-55.80	peak	V
4	367.0000	-77.00	2.15	-74.85	-13.00	-61.85	peak	V
5	495.5000	-77.94	2.66	-75.28	-13.00	-62.28	peak	V
6	719.0000	-80.72	10.83	-69.89	-13.00	-56.89	peak	V
7	3136.000	-70.39	21.01	-49.38	-13.00	-36.38	peak	V
8	4684.000	-72.21	26.53	-45.68	-13.00	-32.68	peak	V
9	6736.000	-74.10	29.86	-44.24	-13.00	-31.24	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	847.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	90.5000	-57.84	-0.07	-57.91	-13.00	-44.91	peak	H
2	150.5000	-56.85	-1.59	-58.44	-13.00	-45.44	peak	H
3	215.5000	-59.17	0.00	-59.17	-13.00	-46.17	peak	H
4	299.0000	-74.26	-2.45	-76.71	-13.00	-63.71	peak	H
5	355.5000	-77.16	-0.08	-77.24	-13.00	-64.24	peak	H
6	598.5000	-80.00	7.91	-72.09	-13.00	-59.09	peak	H
7	3148.000	-70.77	18.14	-52.63	-13.00	-39.63	peak	H
8	4684.000	-71.74	22.06	-49.68	-13.00	-36.68	peak	H
9	6988.000	-71.84	32.60	-39.24	-13.00	-26.24	peak	H
1	140.5000	-50.38	8.88	-41.50	-13.00	-28.50	peak	V
2	215.0000	-61.13	7.11	-54.02	-13.00	-41.02	peak	V
3	281.5000	-72.72	1.04	-71.68	-13.00	-58.68	peak	V
4	364.5000	-77.74	2.25	-75.49	-13.00	-62.49	peak	V
5	494.0000	-78.21	2.63	-75.58	-13.00	-62.58	peak	V
6	716.5000	-80.50	10.74	-69.76	-13.00	-56.76	peak	V
7	2980.000	-70.12	20.08	-50.04	-13.00	-37.04	peak	V
8	4756.000	-72.33	26.66	-45.67	-13.00	-32.67	peak	V
9	6916.000	-74.34	30.33	-44.01	-13.00	-31.01	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	3 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	818.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.5000	-57.88	-0.14	-58.02	-13.00	-45.02	peak	H
2	141.0000	-53.28	-4.46	-57.74	-13.00	-44.74	peak	H
3	213.0000	-55.34	0.29	-55.05	-13.00	-42.05	peak	H
4	301.5000	-74.65	-2.25	-76.90	-13.00	-63.90	peak	H
5	342.0000	-76.49	-0.49	-76.98	-13.00	-63.98	peak	H
6	556.0000	-80.43	7.90	-72.53	-13.00	-59.53	peak	H
7	3172.000	-70.49	18.20	-52.29	-13.00	-39.29	peak	H
8	4804.000	-73.84	22.71	-51.13	-13.00	-38.13	peak	H
9	6868.000	-73.19	32.08	-41.11	-13.00	-28.11	peak	H
1	141.0000	-50.74	8.84	-41.90	-13.00	-28.90	peak	V
2	214.5000	-59.21	7.30	-51.91	-13.00	-38.91	peak	V
3	282.0000	-71.39	1.09	-70.30	-13.00	-57.30	peak	V
4	500.0000	-77.58	2.74	-74.84	-13.00	-61.84	peak	V
5	618.0000	-79.48	8.75	-70.73	-13.00	-57.73	peak	V
6	704.5000	-81.43	10.35	-71.08	-13.00	-58.08	peak	V
7	3148.000	-69.81	21.08	-48.73	-13.00	-35.73	peak	V
8	4732.000	-71.80	26.62	-45.18	-13.00	-32.18	peak	V
9	7012.000	-72.50	30.58	-41.92	-13.00	-28.92	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	820.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	88.5000	-57.50	-0.50	-58.00	-13.00	-45.00	peak	H
2	151.0000	-57.89	-1.41	-59.30	-13.00	-46.30	peak	H
3	211.5000	-56.30	0.47	-55.83	-13.00	-42.83	peak	H
4	299.5000	-75.06	-2.41	-77.47	-13.00	-64.47	peak	H
5	351.5000	-73.66	-0.21	-73.87	-13.00	-60.87	peak	H
6	529.5000	-80.35	7.95	-72.40	-13.00	-59.40	peak	H
7	3172.000	-70.50	18.20	-52.30	-13.00	-39.30	peak	H
8	4708.000	-73.47	22.19	-51.28	-13.00	-38.28	peak	H
9	6736.000	-73.27	31.50	-41.77	-13.00	-28.77	peak	H
1	140.5000	-50.43	8.88	-41.55	-13.00	-28.55	peak	V
2	213.0000	-61.05	7.85	-53.20	-13.00	-40.20	peak	V
3	281.5000	-69.03	1.04	-67.99	-13.00	-54.99	peak	V
4	360.0000	-78.33	2.43	-75.90	-13.00	-62.90	peak	V
5	495.0000	-79.12	2.66	-76.46	-13.00	-63.46	peak	V
6	666.0000	-79.97	9.45	-70.52	-13.00	-57.52	peak	V
7	3124.000	-70.80	20.95	-49.85	-13.00	-36.85	peak	V
8	4660.000	-73.41	26.49	-46.92	-13.00	-33.92	peak	V
9	6832.000	-74.87	30.13	-44.74	-13.00	-31.74	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	831.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.5000	-66.19	1.05	-65.14	-13.00	-52.14	peak	H
2	234.0000	-73.31	-1.38	-74.69	-13.00	-61.69	peak	H
3	390.0000	-74.18	1.66	-72.52	-13.00	-59.52	peak	H
4	515.5000	-76.80	7.49	-69.31	-13.00	-56.31	peak	H
5	598.5000	-77.27	7.91	-69.36	-13.00	-56.36	peak	H
6	765.5000	-77.14	9.38	-67.76	-13.00	-54.76	peak	H
7	2800.000	-68.87	17.24	-51.63	-13.00	-38.63	peak	H
8	5164.000	-72.21	24.52	-47.69	-13.00	-34.69	peak	H
9	6736.000	-71.59	31.50	-40.09	-13.00	-27.09	peak	H
1	130.0000	-70.56	14.37	-56.19	-13.00	-43.19	peak	V
2	202.0000	-72.37	9.91	-62.46	-13.00	-49.46	peak	V
3	365.5000	-71.24	2.21	-69.03	-13.00	-56.03	peak	V
4	487.0000	-74.92	2.51	-72.41	-13.00	-59.41	peak	V
5	635.5000	-79.93	8.68	-71.25	-13.00	-58.25	peak	V
6	780.0000	-79.57	11.28	-68.29	-13.00	-55.29	peak	V
7	2788.000	-68.64	18.70	-49.94	-13.00	-36.94	peak	V
8	5116.000	-71.83	27.27	-44.56	-13.00	-31.56	peak	V
9	6652.000	-71.59	29.62	-41.97	-13.00	-28.97	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	846.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	162.5000	-66.86	-0.49	-67.35	-13.00	-54.35	peak	H
2	234.0000	-74.31	-1.38	-75.69	-13.00	-62.69	peak	H
3	365.5000	-73.36	0.25	-73.11	-13.00	-60.11	peak	H
4	540.5000	-75.13	8.25	-66.88	-13.00	-53.88	peak	H
5	670.5000	-77.79	7.10	-70.69	-13.00	-57.69	peak	H
6	748.5000	-77.25	8.58	-68.67	-13.00	-55.67	peak	H
7	3520.000	-70.06	19.14	-50.92	-13.00	-37.92	peak	H
8	5284.000	-71.63	25.07	-46.56	-13.00	-33.56	peak	H
9	6736.000	-71.97	31.50	-40.47	-13.00	-27.47	peak	H
1	130.5000	-71.09	14.09	-57.00	-13.00	-44.00	peak	V
2	200.0000	-75.77	10.15	-65.62	-13.00	-52.62	peak	V
3	365.5000	-72.46	2.21	-70.25	-13.00	-57.25	peak	V
4	432.5000	-73.08	1.41	-71.67	-13.00	-58.67	peak	V
5	610.0000	-79.58	8.17	-71.41	-13.00	-58.41	peak	V
6	765.0000	-78.83	11.04	-67.79	-13.00	-54.79	peak	V
7	2956.000	-67.64	19.90	-47.74	-13.00	-34.74	peak	V
8	5092.000	-72.15	27.25	-44.90	-13.00	-31.90	peak	V
9	6820.000	-71.86	30.10	-41.76	-13.00	-28.76	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	820.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.0000	-57.35	-0.32	-57.67	-13.00	-44.67	peak	H
2	140.5000	-52.38	-4.62	-57.00	-13.00	-44.00	peak	H
3	213.0000	-58.10	0.29	-57.81	-13.00	-44.81	peak	H
4	302.5000	-75.73	-2.19	-77.92	-13.00	-64.92	peak	H
5	485.0000	-80.11	6.04	-74.07	-13.00	-61.07	peak	H
6	720.5000	-79.46	7.50	-71.96	-13.00	-58.96	peak	H
7	3316.000	-70.85	18.59	-52.26	-13.00	-39.26	peak	H
8	4756.000	-71.69	22.45	-49.24	-13.00	-36.24	peak	H
9	6868.000	-74.47	32.08	-42.39	-13.00	-29.39	peak	H
1	141.0000	-51.83	8.84	-42.99	-13.00	-29.99	peak	V
2	211.0000	-57.91	8.58	-49.33	-13.00	-36.33	peak	V
3	281.5000	-70.10	1.04	-69.06	-13.00	-56.06	peak	V
4	366.0000	-77.64	2.19	-75.45	-13.00	-62.45	peak	V
5	493.5000	-77.52	2.63	-74.89	-13.00	-61.89	peak	V
6	688.0000	-79.96	9.81	-70.15	-13.00	-57.15	peak	V
7	3088.000	-70.35	20.74	-49.61	-13.00	-36.61	peak	V
8	4708.000	-72.62	26.57	-46.05	-13.00	-33.05	peak	V
9	6736.000	-73.81	29.86	-43.95	-13.00	-30.95	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	822.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.0000	-57.68	-0.32	-58.00	-13.00	-45.00	peak	H
2	140.5000	-50.98	-4.62	-55.60	-13.00	-42.60	peak	H
3	211.0000	-50.86	0.52	-50.34	-13.00	-37.34	peak	H
4	300.0000	-74.56	-2.36	-76.92	-13.00	-63.92	peak	H
5	352.0000	-75.34	-0.18	-75.52	-13.00	-62.52	peak	H
6	580.0000	-80.06	7.60	-72.46	-13.00	-59.46	peak	H
7	3244.000	-70.26	18.39	-51.87	-13.00	-38.87	peak	H
8	4672.000	-73.55	22.01	-51.54	-13.00	-38.54	peak	H
9	6676.000	-72.48	31.23	-41.25	-13.00	-28.25	peak	H
1	143.0000	-52.62	8.62	-44.00	-13.00	-31.00	peak	V
2	211.5000	-60.64	8.40	-52.24	-13.00	-39.24	peak	V
3	281.5000	-71.31	1.04	-70.27	-13.00	-57.27	peak	V
4	364.5000	-77.62	2.25	-75.37	-13.00	-62.37	peak	V
5	492.0000	-78.45	2.59	-75.86	-13.00	-62.86	peak	V
6	713.5000	-80.90	10.64	-70.26	-13.00	-57.26	peak	V
7	3328.000	-70.05	22.12	-47.93	-13.00	-34.93	peak	V
8	4684.000	-73.26	26.53	-46.73	-13.00	-33.73	peak	V
9	6820.000	-73.87	30.10	-43.77	-13.00	-30.77	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	831.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	162.5000	-67.53	-0.49	-68.02	-13.00	-55.02	peak	H
2	312.0000	-74.38	-1.49	-75.87	-13.00	-62.87	peak	H
3	432.0000	-76.02	3.70	-72.32	-13.00	-59.32	peak	H
4	540.5000	-76.17	8.25	-67.92	-13.00	-54.92	peak	H
5	654.5000	-76.55	7.07	-69.48	-13.00	-56.48	peak	H
6	758.5000	-77.64	9.02	-68.62	-13.00	-55.62	peak	H
7	2872.000	-68.93	17.41	-51.52	-13.00	-38.52	peak	H
8	5176.000	-71.39	24.56	-46.83	-13.00	-33.83	peak	H
9	6652.000	-72.08	31.13	-40.95	-13.00	-27.95	peak	H
1	130.5000	-72.46	14.09	-58.37	-13.00	-45.37	peak	V
2	200.0000	-75.43	10.15	-65.28	-13.00	-52.28	peak	V
3	366.0000	-72.09	2.19	-69.90	-13.00	-56.90	peak	V
4	498.5000	-74.55	2.71	-71.84	-13.00	-58.84	peak	V
5	630.5000	-79.37	8.76	-70.61	-13.00	-57.61	peak	V
6	755.0000	-79.06	10.84	-68.22	-13.00	-55.22	peak	V
7	3304.000	-69.11	21.98	-47.13	-13.00	-34.13	peak	V
8	5332.000	-71.61	27.60	-44.01	-13.00	-31.01	peak	V
9	6724.000	-72.35	29.83	-42.52	-13.00	-29.52	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	844.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	164.5000	-67.54	-2.05	-69.59	-13.00	-56.59	peak	H
2	234.0000	-73.21	-1.38	-74.59	-13.00	-61.59	peak	H
3	390.0000	-73.25	1.66	-71.59	-13.00	-58.59	peak	H
4	499.5000	-77.24	6.94	-70.30	-13.00	-57.30	peak	H
5	565.0000	-75.74	7.76	-67.98	-13.00	-54.98	peak	H
6	731.5000	-76.37	7.90	-68.47	-13.00	-55.47	peak	H
7	3364.000	-69.78	18.72	-51.06	-13.00	-38.06	peak	H
8	5248.000	-71.83	24.89	-46.94	-13.00	-33.94	peak	H
9	6700.000	-72.09	31.34	-40.75	-13.00	-27.75	peak	H
1	130.5000	-69.68	14.09	-55.59	-13.00	-42.59	peak	V
2	200.0000	-75.12	10.15	-64.97	-13.00	-51.97	peak	V
3	365.5000	-71.50	2.21	-69.29	-13.00	-56.29	peak	V
4	498.5000	-75.60	2.71	-72.89	-13.00	-59.89	peak	V
5	614.5000	-79.71	8.50	-71.21	-13.00	-58.21	peak	V
6	718.5000	-79.17	10.81	-68.36	-13.00	-55.36	peak	V
7	2800.000	-69.03	18.79	-50.24	-13.00	-37.24	peak	V
8	5176.000	-71.70	27.37	-44.33	-13.00	-31.33	peak	V
9	6700.000	-71.82	29.76	-42.06	-13.00	-29.06	peak	V

Standard:	FCC Part 90	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 26	Date:	06/19/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	822.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	89.5000	-57.53	-0.14	-57.67	-13.00	-44.67	peak	H
2	141.0000	-52.71	-4.46	-57.17	-13.00	-44.17	peak	H
3	212.5000	-55.80	0.35	-55.45	-13.00	-42.45	peak	H
4	295.5000	-74.26	-2.80	-77.06	-13.00	-64.06	peak	H
5	357.5000	-76.40	-0.01	-76.41	-13.00	-63.41	peak	H
6	567.5000	-80.09	7.73	-72.36	-13.00	-59.36	peak	H
7	3136.000	-70.32	18.10	-52.22	-13.00	-39.22	peak	H
8	4672.000	-73.98	22.01	-51.97	-13.00	-38.97	peak	H
9	6544.000	-74.35	30.66	-43.69	-13.00	-30.69	peak	H
1	140.5000	-50.92	8.88	-42.04	-13.00	-29.04	peak	V
2	212.0000	-60.70	8.22	-52.48	-13.00	-39.48	peak	V
3	281.5000	-73.55	1.04	-72.51	-13.00	-59.51	peak	V
4	366.0000	-76.79	2.19	-74.60	-13.00	-61.60	peak	V
5	492.5000	-77.50	2.61	-74.89	-13.00	-61.89	peak	V
6	710.0000	-80.30	10.52	-69.78	-13.00	-56.78	peak	V
7	3088.000	-71.15	20.74	-50.41	-13.00	-37.41	peak	V
8	4684.000	-73.10	26.53	-46.57	-13.00	-33.57	peak	V
9	6916.000	-72.59	30.33	-42.26	-13.00	-29.26	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2498.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	163.500	-66.37	-1.28	-67.65	-25.00	-42.65	peak	H
2	292.500	-79.57	-3.10	-82.67	-25.00	-57.67	peak	H
3	445.000	-79.38	4.09	-75.29	-25.00	-50.29	peak	H
4	618.000	-80.71	7.72	-72.99	-25.00	-47.99	peak	H
5	775.000	-80.80	9.92	-70.88	-25.00	-45.88	peak	H
6	914.500	-82.42	14.55	-67.87	-25.00	-42.87	peak	H
7	3484.000	-68.50	19.04	-49.46	-25.00	-24.46	peak	H
8	5440.000	-71.90	25.77	-46.13	-25.00	-21.13	peak	H
9	6736.000	-72.55	31.50	-41.05	-25.00	-16.05	peak	H
1	131.000	-74.63	13.83	-60.80	-25.00	-35.80	peak	V
2	281.000	-82.82	1.00	-81.82	-25.00	-56.82	peak	V
3	428.000	-81.75	1.40	-80.35	-25.00	-55.35	peak	V
4	604.500	-80.77	7.78	-72.99	-25.00	-47.99	peak	V
5	747.500	-81.62	10.66	-70.96	-25.00	-45.96	peak	V
6	883.000	-82.87	10.85	-72.02	-25.00	-47.02	peak	V
7	2836.000	-68.54	19.05	-49.49	-25.00	-24.49	peak	V
8	5020.000	-73.35	27.14	-46.21	-25.00	-21.21	peak	V
9	6880.000	-72.25	30.24	-42.01	-25.00	-17.01	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.000	-67.67	1.13	-66.54	-25.00	-41.54	peak	H
2	290.000	-79.16	-3.35	-82.51	-25.00	-57.51	peak	H
3	443.000	-79.68	4.01	-75.67	-25.00	-50.67	peak	H
4	612.000	-80.74	7.79	-72.95	-25.00	-47.95	peak	H
5	758.500	-81.02	9.02	-72.00	-25.00	-47.00	peak	H
6	898.000	-82.36	13.97	-68.39	-25.00	-43.39	peak	H
7	3316.000	-70.43	18.59	-51.84	-25.00	-26.84	peak	H
8	5332.000	-73.20	25.28	-47.92	-25.00	-22.92	peak	H
9	6748.000	-73.96	31.55	-42.41	-25.00	-17.41	peak	H
1	131.000	-74.72	13.83	-60.89	-25.00	-35.89	peak	V
2	298.000	-81.68	2.53	-79.15	-25.00	-54.15	peak	V
3	454.500	-81.47	1.64	-79.83	-25.00	-54.83	peak	V
4	570.000	-80.28	5.14	-75.14	-25.00	-50.14	peak	V
5	712.500	-80.12	10.61	-69.51	-25.00	-44.51	peak	V
6	922.000	-82.21	11.96	-70.25	-25.00	-45.25	peak	V
7	3316.000	-70.40	22.05	-48.35	-25.00	-23.35	peak	V
8	5308.000	-72.65	27.56	-45.09	-25.00	-20.09	peak	V
9	6832.000	-73.09	30.13	-42.96	-25.00	-17.96	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2687.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.500	-68.36	1.05	-67.31	-25.00	-42.31	peak	H
2	284.500	-79.21	-3.90	-83.11	-25.00	-58.11	peak	H
3	433.500	-80.77	3.75	-77.02	-25.00	-52.02	peak	H
4	584.500	-79.56	7.68	-71.88	-25.00	-46.88	peak	H
5	753.500	-80.71	8.80	-71.91	-25.00	-46.91	peak	H
6	908.500	-81.59	14.35	-67.24	-25.00	-42.24	peak	H
7	3340.000	-71.09	18.66	-52.43	-25.00	-27.43	peak	H
8	5236.000	-71.42	24.84	-46.58	-25.00	-21.58	peak	H
9	6784.000	-72.62	31.71	-40.91	-25.00	-15.91	peak	H
1	130.500	-75.37	14.10	-61.27	-25.00	-36.27	peak	V
2	283.000	-81.71	1.19	-80.52	-25.00	-55.52	peak	V
3	477.000	-81.04	2.29	-78.75	-25.00	-53.75	peak	V
4	645.000	-80.90	8.81	-72.09	-25.00	-47.09	peak	V
5	777.000	-81.42	11.23	-70.19	-25.00	-45.19	peak	V
6	918.500	-81.72	11.78	-69.94	-25.00	-44.94	peak	V
7	3220.000	-70.97	21.50	-49.47	-25.00	-24.47	peak	V
8	5248.000	-72.60	27.47	-45.13	-25.00	-20.13	peak	V
9	6796.000	-72.90	30.02	-42.88	-25.00	-17.88	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	5 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.000	-70.79	0.68	-70.11	-25.00	-45.11	peak	H
2	290.000	-79.07	-3.35	-82.42	-25.00	-57.42	peak	H
3	473.000	-80.12	5.35	-74.77	-25.00	-49.77	peak	H
4	619.500	-80.91	7.71	-73.20	-25.00	-48.20	peak	H
5	771.500	-81.87	9.72	-72.15	-25.00	-47.15	peak	H
6	914.000	-82.61	14.53	-68.08	-25.00	-43.08	peak	H
7	3376.000	-70.23	18.74	-51.49	-25.00	-26.49	peak	H
8	5308.000	-71.76	25.17	-46.59	-25.00	-21.59	peak	H
9	6628.000	-73.83	31.02	-42.81	-25.00	-17.81	peak	H
1	130.000	-74.50	14.37	-60.13	-25.00	-35.13	peak	V
2	284.000	-82.29	1.27	-81.02	-25.00	-56.02	peak	V
3	415.500	-81.09	1.33	-79.76	-25.00	-54.76	peak	V
4	578.500	-80.53	5.80	-74.73	-25.00	-49.73	peak	V
5	738.000	-81.20	10.52	-70.68	-25.00	-45.68	peak	V
6	909.000	-81.83	11.17	-70.66	-25.00	-45.66	peak	V
7	2932.000	-69.00	19.74	-49.26	-25.00	-24.26	peak	V
8	5200.000	-73.29	27.40	-45.89	-25.00	-20.89	peak	V
9	6700.000	-74.30	29.76	-44.54	-25.00	-19.54	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2501.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	164.000	-68.60	-1.68	-70.28	-25.00	-45.28	peak	H
2	290.000	-81.05	-3.35	-84.40	-25.00	-59.40	peak	H
3	433.500	-81.80	3.75	-78.05	-25.00	-53.05	peak	H
4	607.500	-80.53	7.84	-72.69	-25.00	-47.69	peak	H
5	751.500	-81.00	8.71	-72.29	-25.00	-47.29	peak	H
6	881.000	-80.87	13.25	-67.62	-25.00	-42.62	peak	H
7	3628.000	-70.94	19.37	-51.57	-25.00	-26.57	peak	H
8	5392.000	-71.01	25.55	-45.46	-25.00	-20.46	peak	H
9	6640.000	-74.20	31.07	-43.13	-25.00	-18.13	peak	H
1	132.500	-73.70	13.02	-60.68	-25.00	-35.68	peak	V
2	301.000	-82.71	2.62	-80.09	-25.00	-55.09	peak	V
3	467.000	-79.86	1.95	-77.91	-25.00	-52.91	peak	V
4	621.000	-81.91	8.87	-73.04	-25.00	-48.04	peak	V
5	765.500	-80.60	11.04	-69.56	-25.00	-44.56	peak	V
6	894.500	-80.86	10.67	-70.19	-25.00	-45.19	peak	V
7	3028.000	-70.17	20.39	-49.78	-25.00	-24.78	peak	V
8	5164.000	-72.97	27.36	-45.61	-25.00	-20.61	peak	V
9	6844.000	-73.13	30.16	-42.97	-25.00	-17.97	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.500	-67.66	1.05	-66.61	-25.00	-41.61	peak	H
2	290.000	-79.73	-3.35	-83.08	-25.00	-58.08	peak	H
3	437.000	-81.09	3.84	-77.25	-25.00	-52.25	peak	H
4	573.000	-80.03	7.67	-72.36	-25.00	-47.36	peak	H
5	720.000	-79.20	7.49	-71.71	-25.00	-46.71	peak	H
6	877.000	-79.95	13.18	-66.77	-25.00	-41.77	peak	H
7	3700.000	-70.31	19.53	-50.78	-25.00	-25.78	peak	H
8	5380.000	-72.13	25.50	-46.63	-25.00	-21.63	peak	H
9	6772.000	-72.38	31.66	-40.72	-25.00	-15.72	peak	H
1	131.000	-76.02	13.83	-62.19	-25.00	-37.19	peak	V
2	300.500	-81.90	2.67	-79.23	-25.00	-54.23	peak	V
3	467.500	-80.65	1.97	-78.68	-25.00	-53.68	peak	V
4	616.500	-81.41	8.64	-72.77	-25.00	-47.77	peak	V
5	762.500	-80.94	10.99	-69.95	-25.00	-44.95	peak	V
6	925.000	-81.45	12.09	-69.36	-25.00	-44.36	peak	V
7	3328.000	-70.87	22.12	-48.75	-25.00	-23.75	peak	V
8	5344.000	-72.37	27.62	-44.75	-25.00	-19.75	peak	V
9	6772.000	-73.58	29.96	-43.62	-25.00	-18.62	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2685.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.000	-69.36	1.45	-67.91	-25.00	-42.91	peak	H
2	295.500	-78.99	-2.80	-81.79	-25.00	-56.79	peak	H
3	488.500	-80.71	6.25	-74.46	-25.00	-49.46	peak	H
4	614.000	-80.41	7.77	-72.64	-25.00	-47.64	peak	H
5	758.500	-80.85	9.02	-71.83	-25.00	-46.83	peak	H
6	880.000	-81.21	13.21	-68.00	-25.00	-43.00	peak	H
7	3760.000	-70.21	19.66	-50.55	-25.00	-25.55	peak	H
8	5404.000	-72.83	25.62	-47.21	-25.00	-22.21	peak	H
9	6832.000	-71.35	31.93	-39.42	-25.00	-14.42	peak	H
1	132.500	-73.80	13.02	-60.78	-25.00	-35.78	peak	V
2	294.000	-79.95	2.17	-77.78	-25.00	-52.78	peak	V
3	477.500	-80.08	2.31	-77.77	-25.00	-52.77	peak	V
4	620.500	-81.41	8.88	-72.53	-25.00	-47.53	peak	V
5	753.000	-80.89	10.80	-70.09	-25.00	-45.09	peak	V
6	932.000	-81.90	12.39	-69.51	-25.00	-44.51	peak	V
7	3808.000	-69.91	23.87	-46.04	-25.00	-21.04	peak	V
8	5536.000	-72.84	27.85	-44.99	-25.00	-19.99	peak	V
9	6748.000	-71.98	29.89	-42.09	-25.00	-17.09	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	10 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	157.000	-65.93	0.49	-65.44	-25.00	-40.44	peak	H
2	321.500	-81.29	-0.89	-82.18	-25.00	-57.18	peak	H
3	501.000	-81.59	7.00	-74.59	-25.00	-49.59	peak	H
4	617.000	-80.40	7.74	-72.66	-25.00	-47.66	peak	H
5	783.500	-81.02	10.37	-70.65	-25.00	-45.65	peak	H
6	911.000	-82.04	14.43	-67.61	-25.00	-42.61	peak	H
7	3244.000	-69.19	18.39	-50.80	-25.00	-25.80	peak	H
8	5164.000	-72.74	24.52	-48.22	-25.00	-23.22	peak	H
9	6820.000	-74.07	31.88	-42.19	-25.00	-17.19	peak	H
1	133.500	-73.42	12.47	-60.95	-25.00	-35.95	peak	V
2	302.000	-81.05	2.55	-78.50	-25.00	-53.50	peak	V
3	430.500	-80.09	1.40	-78.69	-25.00	-53.69	peak	V
4	595.500	-80.64	7.10	-73.54	-25.00	-48.54	peak	V
5	717.500	-80.80	10.78	-70.02	-25.00	-45.02	peak	V
6	885.000	-80.42	10.81	-69.61	-25.00	-44.61	peak	V
7	3568.000	-71.41	23.28	-48.13	-25.00	-23.13	peak	V
8	5452.000	-73.44	27.78	-45.66	-25.00	-20.66	peak	V
9	6868.000	-73.08	30.21	-42.87	-25.00	-17.87	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	15 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2503.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.000	-67.88	0.68	-67.20	-25.00	-42.20	peak	H
2	290.000	-79.07	-3.35	-82.42	-25.00	-57.42	peak	H
3	464.000	-81.27	4.84	-76.43	-25.00	-51.43	peak	H
4	590.500	-80.37	7.77	-72.60	-25.00	-47.60	peak	H
5	739.000	-81.19	8.17	-73.02	-25.00	-48.02	peak	H
6	917.500	-82.18	14.65	-67.53	-25.00	-42.53	peak	H
7	3664.000	-70.59	19.46	-51.13	-25.00	-26.13	peak	H
8	5260.000	-71.47	24.95	-46.52	-25.00	-21.52	peak	H
9	6724.000	-71.50	31.45	-40.05	-25.00	-15.05	peak	H
1	132.500	-75.09	13.02	-62.07	-25.00	-37.07	peak	V
2	285.500	-81.51	1.40	-80.11	-25.00	-55.11	peak	V
3	396.000	-81.03	1.39	-79.64	-25.00	-54.64	peak	V
4	543.500	-80.48	4.27	-76.21	-25.00	-51.21	peak	V
5	690.500	-80.42	9.90	-70.52	-25.00	-45.52	peak	V
6	841.500	-80.98	11.37	-69.61	-25.00	-44.61	peak	V
7	3268.000	-69.30	21.77	-47.53	-25.00	-22.53	peak	V
8	5284.000	-73.56	27.54	-46.02	-25.00	-21.02	peak	V
9	6796.000	-72.81	30.02	-42.79	-25.00	-17.79	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	15 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.500	-67.69	1.30	-66.39	-25.00	-41.39	peak	H
2	310.500	-80.68	-1.60	-82.28	-25.00	-57.28	peak	H
3	476.500	-80.45	5.53	-74.92	-25.00	-49.92	peak	H
4	622.000	-80.02	7.61	-72.41	-25.00	-47.41	peak	H
5	757.500	-81.49	8.97	-72.52	-25.00	-47.52	peak	H
6	910.500	-82.25	14.42	-67.83	-25.00	-42.83	peak	H
7	3712.000	-69.99	19.56	-50.43	-25.00	-25.43	peak	H
8	5440.000	-72.40	25.77	-46.63	-25.00	-21.63	peak	H
9	6820.000	-72.41	31.88	-40.53	-25.00	-15.53	peak	H
1	133.000	-73.67	12.74	-60.93	-25.00	-35.93	peak	V
2	257.500	-81.97	-1.40	-83.37	-25.00	-58.37	peak	V
3	444.000	-80.58	1.50	-79.08	-25.00	-54.08	peak	V
4	594.500	-79.98	7.03	-72.95	-25.00	-47.95	peak	V
5	737.000	-80.96	10.54	-70.42	-25.00	-45.42	peak	V
6	887.000	-82.27	10.79	-71.48	-25.00	-46.48	peak	V
7	2980.000	-68.82	20.08	-48.74	-25.00	-23.74	peak	V
8	5140.000	-72.76	27.32	-45.44	-25.00	-20.44	peak	V
9	6820.000	-73.25	30.10	-43.15	-25.00	-18.15	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	15 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2682.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	161.000	-68.43	0.68	-67.75	-25.00	-42.75	peak	H
2	295.500	-80.31	-2.80	-83.11	-25.00	-58.11	peak	H
3	452.000	-80.30	4.33	-75.97	-25.00	-50.97	peak	H
4	634.500	-80.67	7.07	-73.60	-25.00	-48.60	peak	H
5	801.500	-81.41	11.29	-70.12	-25.00	-45.12	peak	H
6	929.500	-81.81	14.79	-67.02	-25.00	-42.02	peak	H
7	3760.000	-70.43	19.66	-50.77	-25.00	-25.77	peak	H
8	5284.000	-73.51	25.07	-48.44	-25.00	-23.44	peak	H
9	6724.000	-73.28	31.45	-41.83	-25.00	-16.83	peak	H
1	130.500	-74.37	14.10	-60.27	-25.00	-35.27	peak	V
2	294.500	-82.54	2.22	-80.32	-25.00	-55.32	peak	V
3	430.500	-80.90	1.40	-79.50	-25.00	-54.50	peak	V
4	597.500	-80.16	7.26	-72.90	-25.00	-47.90	peak	V
5	751.000	-81.35	10.75	-70.60	-25.00	-45.60	peak	V
6	878.500	-81.68	10.94	-70.74	-25.00	-45.74	peak	V
7	3184.000	-69.55	21.28	-48.27	-25.00	-23.27	peak	V
8	5140.000	-72.45	27.32	-45.13	-25.00	-20.13	peak	V
9	6832.000	-73.51	30.13	-43.38	-25.00	-18.38	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/02/2013
Channel Bandwidth:	15 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.500	-69.07	1.05	-68.02	-25.00	-43.02	peak	H
2	284.500	-79.36	-3.90	-83.26	-25.00	-58.26	peak	H
3	431.500	-80.85	3.71	-77.14	-25.00	-52.14	peak	H
4	616.000	-79.02	7.75	-71.27	-25.00	-46.27	peak	H
5	755.000	-81.85	8.87	-72.98	-25.00	-47.98	peak	H
6	866.000	-81.34	13.08	-68.26	-25.00	-43.26	peak	H
7	3184.000	-69.23	18.23	-51.00	-25.00	-26.00	peak	H
8	5260.000	-73.27	24.95	-48.32	-25.00	-23.32	peak	H
9	6772.000	-72.34	31.66	-40.68	-25.00	-15.68	peak	H
1	130.500	-74.61	14.10	-60.51	-25.00	-35.51	peak	V
2	284.500	-82.18	1.31	-80.87	-25.00	-55.87	peak	V
3	434.000	-80.69	1.41	-79.28	-25.00	-54.28	peak	V
4	561.500	-80.29	4.49	-75.80	-25.00	-50.80	peak	V
5	713.500	-80.87	10.64	-70.23	-25.00	-45.23	peak	V
6	841.000	-82.33	11.36	-70.97	-25.00	-45.97	peak	V
7	3700.000	-70.84	23.59	-47.25	-25.00	-22.25	peak	V
8	5296.000	-73.41	27.54	-45.87	-25.00	-20.87	peak	V
9	6688.000	-73.73	29.73	-44.00	-25.00	-19.00	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/03/2013
Channel Bandwidth:	20 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2506.5 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	163.000	-66.95	-0.88	-67.83	-25.00	-42.83	peak	H
2	312.500	-81.17	-1.46	-82.63	-25.00	-57.63	peak	H
3	464.000	-80.82	4.84	-75.98	-25.00	-50.98	peak	H
4	619.000	-80.64	7.72	-72.92	-25.00	-47.92	peak	H
5	757.000	-81.43	8.95	-72.48	-25.00	-47.48	peak	H
6	900.000	-81.66	14.06	-67.60	-25.00	-42.60	peak	H
7	3604.000	-70.59	19.31	-51.28	-25.00	-26.28	peak	H
8	5308.000	-73.36	25.17	-48.19	-25.00	-23.19	peak	H
9	6652.000	-73.96	31.13	-42.83	-25.00	-17.83	peak	H
1	130.000	-74.77	14.37	-60.40	-25.00	-35.40	peak	V
2	285.000	-80.99	1.36	-79.63	-25.00	-54.63	peak	V
3	452.000	-79.13	1.61	-77.52	-25.00	-52.52	peak	V
4	590.000	-81.13	6.68	-74.45	-25.00	-49.45	peak	V
5	737.000	-79.77	10.54	-69.23	-25.00	-44.23	peak	V
6	863.000	-81.27	11.50	-69.77	-25.00	-44.77	peak	V
7	3676.000	-70.31	23.54	-46.77	-25.00	-21.77	peak	V
8	5452.000	-73.96	27.78	-46.18	-25.00	-21.18	peak	V
9	6784.000	-72.60	29.99	-42.61	-25.00	-17.61	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/03/2013
Channel Bandwidth:	20 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2593.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	159.500	-69.11	1.30	-67.81	-25.00	-42.81	peak	H
2	292.500	-80.20	-3.10	-83.30	-25.00	-58.30	peak	H
3	449.000	-81.16	4.22	-76.94	-25.00	-51.94	peak	H
4	579.500	-81.27	7.61	-73.66	-25.00	-48.66	peak	H
5	759.000	-80.03	9.05	-70.98	-25.00	-45.98	peak	H
6	924.000	-81.92	14.76	-67.16	-25.00	-42.16	peak	H
7	3232.000	-69.62	18.36	-51.26	-25.00	-26.26	peak	H
8	5212.000	-72.51	24.73	-47.78	-25.00	-22.78	peak	H
9	6820.000	-72.57	31.88	-40.69	-25.00	-15.69	peak	H
1	133.500	-71.32	12.47	-58.85	-25.00	-33.85	peak	V
2	294.000	-81.02	2.17	-78.85	-25.00	-53.85	peak	V
3	404.500	-79.78	1.34	-78.44	-25.00	-53.44	peak	V
4	549.000	-79.95	4.32	-75.63	-25.00	-50.63	peak	V
5	710.500	-79.48	10.54	-68.94	-25.00	-43.94	peak	V
6	857.500	-80.77	11.57	-69.20	-25.00	-44.20	peak	V
7	3148.000	-68.81	21.08	-47.73	-25.00	-22.73	peak	V
8	5152.000	-73.43	27.33	-46.10	-25.00	-21.10	peak	V
9	6832.000	-72.75	30.13	-42.62	-25.00	-17.62	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/03/2013
Channel Bandwidth:	20 MHz	Test By:	Fly Lu
Modulation Technology:	QPSK		
Frequency:	2680.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	163.500	-66.23	-1.28	-67.51	-25.00	-42.51	peak	H
2	315.000	-83.58	-1.28	-84.86	-25.00	-59.86	peak	H
3	460.500	-81.43	4.65	-76.78	-25.00	-51.78	peak	H
4	603.500	-80.94	7.90	-73.04	-25.00	-48.04	peak	H
5	755.000	-81.91	8.87	-73.04	-25.00	-48.04	peak	H
6	922.000	-83.15	14.75	-68.40	-25.00	-43.40	peak	H
7	2908.000	-69.81	17.51	-52.30	-25.00	-27.30	peak	H
8	5092.000	-73.64	24.18	-49.46	-25.00	-24.46	peak	H
9	6784.000	-72.46	31.71	-40.75	-25.00	-15.75	peak	H
1	131.500	-73.14	13.57	-59.57	-25.00	-34.57	peak	V
2	295.500	-82.32	2.31	-80.01	-25.00	-55.01	peak	V
3	485.500	-80.22	2.48	-77.74	-25.00	-52.74	peak	V
4	597.500	-78.90	7.26	-71.64	-25.00	-46.64	peak	V
5	748.500	-80.91	10.69	-70.22	-25.00	-45.22	peak	V
6	881.500	-81.15	10.87	-70.28	-25.00	-45.28	peak	V
7	3196.000	-69.17	21.35	-47.82	-25.00	-22.82	peak	V
8	5188.000	-73.13	27.39	-45.74	-25.00	-20.74	peak	V
9	6688.000	-73.58	29.73	-43.85	-25.00	-18.85	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AirCard 771S	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Band:	LTE Band 41	Date:	03/03/2013
Channel Bandwidth:	20 MHz	Test By:	Fly Lu
Modulation Technology:	16QAM		
Frequency:	2506.0 MHz		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	160.500	-69.32	1.05	-68.27	-25.00	-43.27	peak	H
2	295.500	-80.39	-2.80	-83.19	-25.00	-58.19	peak	H
3	452.000	-81.10	4.33	-76.77	-25.00	-51.77	peak	H
4	613.500	-81.57	7.77	-73.80	-25.00	-48.80	peak	H
5	799.000	-82.02	11.19	-70.83	-25.00	-45.83	peak	H
6	935.000	-82.26	14.83	-67.43	-25.00	-42.43	peak	H
7	3076.000	-68.42	17.94	-50.48	-25.00	-25.48	peak	H
8	5140.000	-73.49	24.40	-49.09	-25.00	-24.09	peak	H
9	6724.000	-73.09	31.45	-41.64	-25.00	-16.64	peak	H
1	130.500	-74.23	14.10	-60.13	-25.00	-35.13	peak	V
2	289.000	-82.21	1.71	-80.50	-25.00	-55.50	peak	V
3	451.000	-81.52	1.59	-79.93	-25.00	-54.93	peak	V
4	567.500	-80.11	4.95	-75.16	-25.00	-50.16	peak	V
5	645.000	-81.27	8.81	-72.46	-25.00	-47.46	peak	V
6	842.000	-80.89	11.38	-69.51	-25.00	-44.51	peak	V
7	3244.000	-69.58	21.63	-47.95	-25.00	-22.95	peak	V
8	5104.000	-72.87	27.27	-45.60	-25.00	-20.60	peak	V
9	6820.000	-73.07	30.10	-42.97	-25.00	-17.97	peak	V