FCC Part 22H&90S Test Report

Product Name	:	Wireless Module
Model No.	:	MC7354B
FCC ID	:	N7NMC7354B
IC	:	2417C-MC7354B

Applicant	:	Sierra Wireless Inc.
Address	:	13811 Wireless Way Richmond, British Columbia, Canada, V6V 3A4.

Date of Receipt	:	Jun. 08, 2015
Test Date	:	Jun. 08, 2015~ Jul. 09, 2015
Issued Date	:	Jul. 13, 2015
Report No.	:	1560266R-HP-US-P07V01
Report Version	:	V 3.0

Test Report Certification

Issued Date : Jul. 13, 2015
Report No. : 1560266R-HP-US-P07V01

QuieTek a DEKRA company

Product Name	:	Wireless Module
Applicant	:	Sierra Wireless Inc.
Address	:	13811 Wireless Way Richmond, British Columbia, Canada, V6V 3A4.
Manufacturer	:	Sierra Wireless Inc.
Address	:	13811 Wireless Way Richmond, British Columbia, Canada, V6V 3A4.
Model No.	:	MC7354B
FCC ID	:	N7NMC7354B
IC	:	2417C-MC7354B
EUT Voltage	:	DC 5V
Applicable Standard	:	FCC CFR Title 47 Part 2,TIA/EIA 603-D FCC Part 22 Subpart H FCC Part 90 Subpart S Industry Canada RSS-132, Issue 3
Test Result	:	Complied
Performed Location	:	Suzhou EMC Laboratory No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: 800392; IC Lab Code: 4075B

Documented By	:	Elaine Wang
Reviewed By	:	Harry Zhao
Approved By	:	Dream Cao

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	**:**	**BSMI, NCC**
USA	**:**	**FCC**
Japan	**:**	**VCCI**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://www.quietek.com/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

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TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

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TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1560266R-HP-US-P07V01	V1.0	Initial Issued Report	Jun. 25, 2015
1560266R-HP-US-P07V01	V2.0	(1) Add the test requirement of regulation Part 90S (2) Replaced the original low channel and high channel in Part 22H	Jul. 10, 2015
1560266R-HP-US-P07V01	V3.0	(3) Modify the Maximum Output Power of test channel	Jul. 13, 2015

1. General Information

1.1. EUT Description

Product Name	Wireless Module
Model No.	MC7354B
EUT Voltage	DC 5V
4G	
Support Band	LTE Band 26
Uplink	Band 26: 814~849MHz
Downlink	Band 26: 859~894MHz
Type of modulation	QPSK, 16QAM
Antenna Type	Dipole
Antenna Gain	Band 26: 1dBi

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: LTE Band 26

Note:

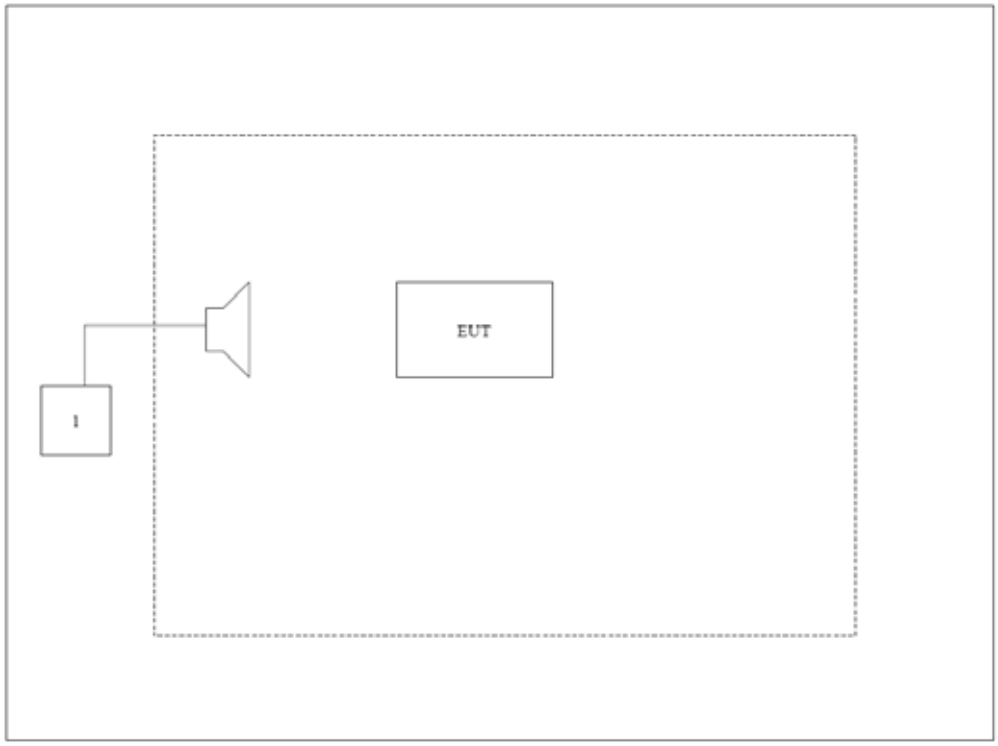
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. For the radiated emission test and conducted test, We have evaluated the each channel bandwidth of RB size and RB offset, show the worst result on this report.
3. Because of the band 26 occupies two bands which are 814-824MHz, 824-849 so we test the band 26 with regulation Part 90S&Part 22H.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Radio Communication Tester	Anritsu	MT8820C	6201181503	N/A

1.4. Configuration of Tested System

Connection Diagram	
	
Signal Cable Type	Signal cable Description

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT Communicate with MT8820C, then select channel to test.

2. Technical Test

2.1. Summary of Test Result

For LTE Band 26(Mid & High Channel)

(FCC Part 22 Subpart H, Industry Canada RSS-132, Issue 3, Industry Canada RSS-GEN, Issue 4)

Performed Item	FCC Rule	IC Rule	Limit	Result
Maximum Output Power	§2.1033 §2.1046 §22.913	§5.4	< 7 Watts	Pass
Equivalent Isotropic Radiated Power	§22.913	§5.4	< 7 Watts	Pass
Modulation characteristics	§2.1047	§5.2	N/A	Pass
Occupied Bandwidth	§2.1049	RSS-GEN §4.2	N/A	Pass
Conducted Band Edge Emissions	§22.917	§5.5	< -13dBm	Pass
Field Strength of Spurious Radiation	§2.1053 §§22.917	§5.5	< -13dBm	Pass
Frequency Stability Under Temperature & Voltage Variations	§2.1055 §22.335	§5.3	< 2.5 ppm	Pass

For LTE Band 26 (Low channel)

(FCC Part 90 Subpart S & Part 2)

Performed Item	FCC Rule	Limit	Result
Maximum Output Power	§2.1033 §2.1046 §90.635	< 30 Watts	Pass
Equivalent Isotropic Radiated Power	§90.635	< 30 Watts	Pass
Modulation characteristics	§2.1047	N/A	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Conducted Band Edge Emissions	§90.691	< - 20dBm&-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053 §90.691	< -13dBm	Pass
Frequency Stability Under Temperature & Voltage Variations	§2.1055 §90.231	< 2.5 ppm	Pass

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	23
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	950-1000

3. Maximum Output Power and Effective Isotropic Radiated Power Measurement

3.1. Test Equipment

Peak Conducted Output Power / AC-6

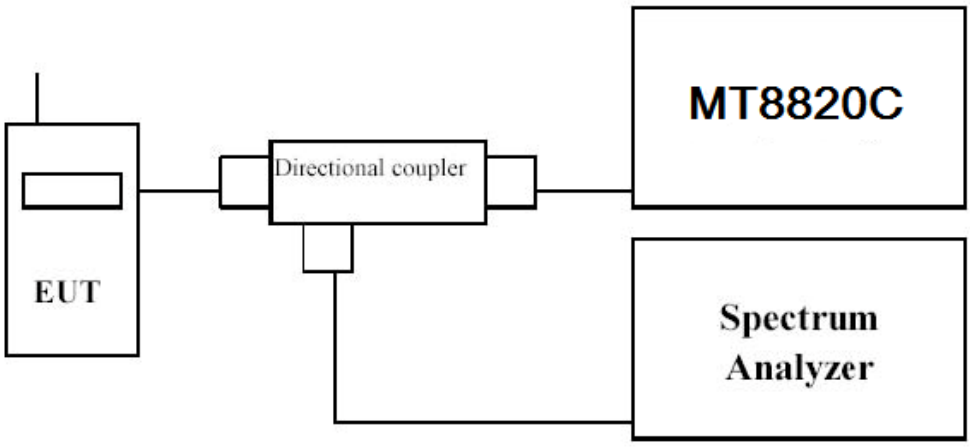
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

Peak Radiated Output Power / AC-5

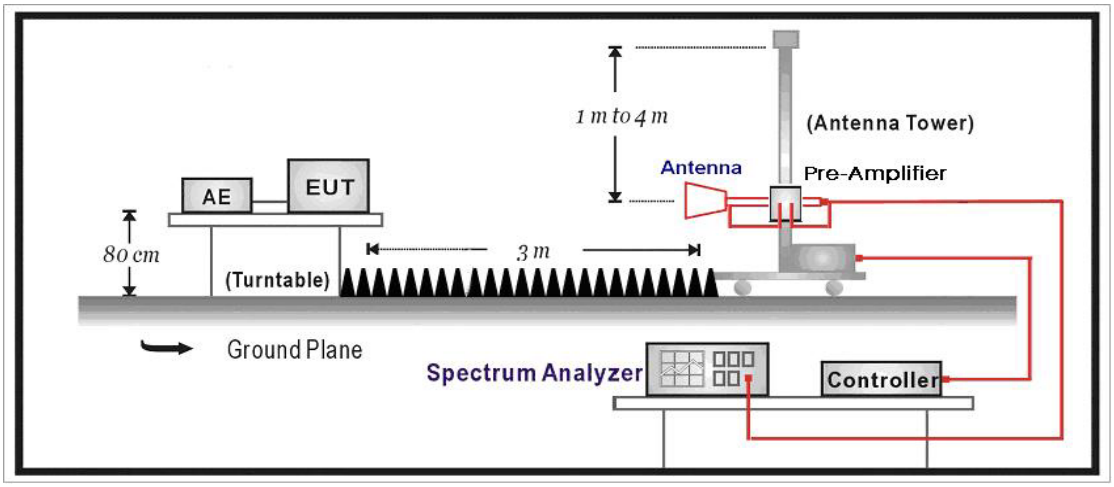
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Preamplifier	Miteq	NSP1800-25	1364185	2016/05/03
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016/05/03
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2016/10/15
DRG Horn	ETS-Lindgren	3117	00123988	2016/01/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016/03/10
EMI Receiver	Agilent	N9038A	MY51210196	2015/08/07
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016/01/07

3.2. Test Setup

Conducted Power Measurement:



Radiated Power Measurement:



3.3. Test Procedure

For Conducted Power Measurement:

a) The RF output of the transmitter was connected to base station simulator.

b) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement..

c) Set EUT at maximum average power by base station simulator.

d) Measure lowest, middle, and highest channels for each bandwidth and different modulation.

For Effective Isotropic Radiated Power Measurement:

e) The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
f) The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower
g) LTE operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use
h) channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
i) The table was rotated 360 degrees to determine the position of the highest radiated power.
j) The height of the receiving antenna is adjusted to look for the maximum EIRP.
k) Taking the record of maximum EIRP.
l) A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
m) The conducted power at the terminal of the dipole antenna is measured.
n) Repeat step 3 to step 5 to get the maximum EIRP of the substitution antenna.
o) EIRP = Ps + Et – Es + Gs = Ps + Rt – Rs + Gs.
p) Ps (dBm)：Input power to substitution antenna
q) Gs (dBi or dBd)：Substitution antenna Gain.
r) Et = Rt + AF
s) Es = Rs + AF
t) AF (dB/m)：Receive antenna factor
u) Rt：The highest received signal in spectrum analyzer for EUT.
v) Rs：The highest received signal in spectrum analyzer for substitution antenna.

3.4. Uncertainty

The measurement uncertainty is defined as for Conducted Power Measurement ± 1.2 dB, for Radiated Power Measurement ± 3.2 dB

3.5. Test Result

Product	Wireless Module		
Test Item	Maximum Output Power		
Date of Test	2015/07/09	Test Site	TR-8

LTE Band 26 For Part 22H

BW [MHz]	RB Size	RB Offset	Mod	Maximum Average Power [dBm]		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.
Channel				26865	26915	26965
Frequency				831.5	836.5	841.5
15	1	0	QPSK	23.13	23.03	22.97
15	1	37		23.05	23.01	22.96
15	1	74		23.12	22.97	22.41
15	36	0		21.87	21.81	21.80
15	36	18		21.81	21.84	21.67
15	36	37		21.80	21.77	21.65
15	75	0		21.79	21.74	21.72
15	1	0	16-QAM	22.33	22.29	22.20
15	1	37		22.30	22.27	22.19
15	1	74		22.20	22.15	22.11
15	36	0		20.88	20.78	20.75
15	36	18		20.93	20.89	20.83
15	36	37		20.94	20.87	20.81
15	75	0		20.83	20.81	20.77
Channel				26840	26915	26990
Frequency				829.0	836.5	844
10	1	0	QPSK	23.15	23.09	23.07
10	1	24		23.03	23.00	22.99
10	1	49		23.01	22.99	22.95
10	25	0		21.87	21.80	22.02
10	25	12		21.85	21.71	22.00
10	25	24		21.89	21.81	21.91
10	50	0		21.79	21.70	21.86
10	1	0	16-QAM	22.18	22.16	22.13
10	1	24		22.16	22.10	22.07

10	1	49		22.11	22.08	21.92
10	25	0		20.86	20.79	20.68
10	25	12		20.85	20.83	20.79
10	25	24		20.82	20.77	20.75.
10	50	0		20.81	20.73	20.71
Channel				**26815**	**26915**	**27015**
Frequency				**826.5**	**836.5**	**846.5**
5	1	0		23.06	23.04	22.83
5	1	12		23.06	22.95	22.82
5	1	24		23.03	22.89	21.83
5	12	0	QPSK	21.97	21.94	21.83
5	12	6		21.96	21.87	21.77
5	12	11		21.95	21.91	21.90
5	25	0		21.89	21.77	21.75
5	1	0		22.08	22.05	22.02
5	1	12		22.05	22.01	21.98
5	1	24		22.06	22.03	21.99
5	12	0	16-QAM	20.95	20.93	21.91
5	12	6		20.98	20.95	20.92
5	12	11		20.94	20.92	20.89
5	25	0		20.91	20.89	20.85
Channel				**26805**	**26915**	**27025**
Frequency				**825.5**	**836.5**	**847.5**
3	1	0		23.06	23.04	22.95
3	1	7		23.05	23.03	22.94
3	1	14		22.97	22.97	22.93
3	8	0	QPSK	22.57	22.43	22.37
3	8	4		22.49	22.35	22.30
3	8	7		22.37	22.18	22.12
3	15	0		22.05	21.98	21.86
3	1	0		22.11	22.08	21.96
3	1	7		22.08	22.06	21.92
3	1	14		22.07	22.03	21.89
3	8	0	16-QAM	21.49	21.45	21.35
3	8	4		21.44	21.41	21.33
3	8	7		21.30	21.28	20.12
3	15	0		21.02	21.01	21.89

Channel				26797	26915	27033
Frequency				824.7	836.5	848.3
1.4	1	0	QPSK	23.12	23.06	22.58
1.4	1	2		23.08	23.01	22.26
1.4	1	5		23.06	23.02	21.74
1.4	3	0		23.01	23.00	22.34
1.4	3	1		22.99	22.95	22.21
1.4	3	2		22.96	22.92	22.08
1.4	6	0		22.09	22.03	21.98
1.4	1	0	16-QAM	22.11	22.05	21.96
1.4	1	2		22.05	22.03	21.99
1.4	1	5		22.06	22.04	21.98
1.4	3	0		22.00	21.98	21.95
1.4	3	1		21.98	21.95	21.90
1.4	3	2		21.96	21.91	21.81
1.4	6	0		21.05	21.03	21.95

Note: All conducted measurements are based on a RMS detector.

LTE Band 26 For Part 90S

BW [MHz]	RB Size	RB Offset	Mod	Maximum Average Power [dBm]		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.
Channel				26740		
Frequency				819.0		
10	1	0	QPSK	23.16		
10	1	24		23.05		
10	1	49		23.03		
10	25	0		21.85		
10	25	12		21.84		
10	25	24		21.87		
10	50	0		21.78		
10	1	0	16-QAM	22.21		
10	1	24		22.16		
10	1	49		22.13		
10	25	0		20.88		
10	25	12		20.84		
10	25	24		20.81		
10	50	0		20.80		
Channel				26715	26740	26765
Frequency				816.5	819	821.5
5	1	0	QPSK	23.07	23.05	22.81
5	1	12		23.05	22.93	22.83
5	1	24		23.01	22.88	21.84
5	12	0		21.98	21.93	21.82
5	12	6		21.96	21.86	21.75
5	12	11		21.94	21.93	21.91
5	25	0		21.87	21.75	21.72
5	1	0	16-QAM	22.07	22.05	22.01
5	1	12		22.04	22.02	21.95
5	1	24		22.05	22.01	21.98
5	12	0		20.98	20.95	21.90
5	12	6		20.97	20.93	20.89
5	12	11		20.93	20.91	20.85
5	25	0		20.92	20.88	20.83
Channel				26705	26740	26775

Frequency				815.5	819	822.5
3	1	0	QPSK	23.11	23.08	22.05
3	1	7		23.08	23.05	22.93
3	1	14		22.99	22.98	22.95
3	8	0		22.61	22.44	22.40
3	8	4		22.51	22.33	22.29
3	8	7		22.33	22.21	22.20
3	15	0		22.04	21.95	21.90
3	1	0	16-QAM	22.14	22.09	21.98
3	1	7		22.05	22.03	21.95
3	1	14		22.10	22.07	21.95
3	8	0		21.48	21.44	21.31
3	8	4		21.43	21.41	21.38
3	8	7		21.32	21.25	20.10
3	15	0		21.05	21.02	21.92
Channel				**26697**	**26740**	**26783**
Frequency				**814.7**	**819**	**823.3**
1.4	1	0	QPSK	23.15	23.03	22.55
1.4	1	2		23.07	23.02	22.33
1.4	1	5		23.05	23.03	21.75
1.4	3	0		23.05	23.02	22.44
1.4	3	1		22.95	22.92	22.32
1.4	3	2		22.93	22.91	22.18
1.4	6	0		22.08	22.02	21.97
1.4	1	0	16-QAM	22.13	22.07	21.98
1.4	1	2		22.03	22.02	21.98
1.4	1	5		22.10	22.05	21.93
1.4	3	0		22.03	21.95	21.93
1.4	3	1		21.97	21.92	21.91
1.4	3	2		21.95	21.92	21.87
1.4	6	0		21.04	21.01	20.98

Note: All conducted measurements are based on a RMS detector.

Product	Wireless Module		
Test Item	Effective Isotropic Radiated Power		
Date of Test	2015/07/09	Test Site	AC-5

LTE Band 26 for Part 22H

LTE Band 26 Radiated Power EIRP							
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V
			RB Size	RB Offset			
26	15	QPSK	1	0	831.5	24.43	H
26	15	QPSK	1	0	836.5	24.22	H
26	15	QPSK	1	0	841.5	24.02	H
26	15	QPSK	1	0	831.5	22.38	V
26	15	QPSK	1	0	836.5	22.15	V
26	15	QPSK	1	0	841.5	22.01	V
26	15	16QAM	1	0	831.5	23.34	H
26	15	16QAM	1	0	836.5	23.21	H
26	15	16QAM	1	0	841.5	23.08	H
26	15	16QAM	1	0	831.5	21.19	V
26	15	16QAM	1	0	836.5	21.10	V
26	15	16QAM	1	0	841.5	21.04	V
26	10	QPSK	1	0	829.0	24.13	H
26	10	QPSK	1	0	836.5	24.11	H
26	10	QPSK	1	0	844.0	24.00	H
26	10	QPSK	1	0	829.0	22.10	V
26	10	QPSK	1	0	836.5	21.98	V
26	10	QPSK	1	0	844.0	21.93	V
26	10	16QAM	1	0	829.0	23.20	H
26	10	16QAM	1	0	836.5	23.15	H
26	10	16QAM	1	0	844.0	23.04	H
26	10	16QAM	1	0	829.0	22.11	V

26	10	16QAM	1	0	836.5	22.02	V
26	10	16QAM	1	0	844.0	21.94	V
26	5	QPSK	1	0	826.5	24.32	H
26	5	QPSK	1	0	836.5	24.23	H
26	5	QPSK	1	0	846.5	24.14	H
26	5	QPSK	1	0	826.5	22.22	V
26	5	QPSK	1	0	836.5	22.17	V
26	5	QPSK	1	0	846.5	22.04	V
26	5	16QAM	1	0	826.5	23.13	H
26	5	16QAM	1	0	836.5	23.02	H
26	5	16QAM	1	0	846.5	22.98	H
26	5	16QAM	1	0	826.5	21.04	V
26	5	16QAM	1	0	836.5	21.03	V
26	5	16QAM	1	0	846.5	20.85	V
26	3	QPSK	1	0	825.5	24.22	H
26	3	QPSK	1	0	831.5	24.13	H
26	3	QPSK	1	0	847.5	24.04	H
26	3	QPSK	1	0	825.5	22.13	V
26	3	QPSK	1	0	831.5	22.04	V
26	3	QPSK	1	0	847.5	21.97	V
26	3	16QAM	1	0	825.5	23.23	H
26	3	16QAM	1	0	831.5	23.15	H
26	3	16QAM	1	0	847.5	23.02	H
26	3	16QAM	1	0	825.5	21.11	V
26	3	16QAM	1	0	831.5	21.03	V
26	3	16QAM	1	0	847.5	20.98	V
26	1.4	QPSK	1	0	824.7	24.34	H
26	1.4	QPSK	1	0	836.5	24.22	H
26	1.4	QPSK	1	0	848.3	24.19	H
26	1.4	QPSK	1	0	824.7	22.22	V

26	1.4	QPSK	1	0	836.5	22.15	V
26	1.4	QPSK	1	0	848.3	22.08	V
26	1.4	16QAM	1	0	824.7	23.19	H
26	1.4	16QAM	1	0	836.5	23.17	H
26	1.4	16QAM	3	0	848.3	23.11	H
26	1.4	16QAM	1	0	824.7	21.03.	V
26	1.4	16QAM	1	0	836.5	20.98	V
26	1.4	16QAM	1	0	848.3	20.91	V

LTE Band 26 for Part 90S

LTE Band 26 Radiated Power EIRP							
LTE Band	Channel BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V
			RB Size	RB Offset			
26	10	QPSK	1	0	819.0	24.21	H
26	10	QPSK	1	0	819.0	22.09	V
26	10	16QAM	1	0	819.0	23.11	H
26	10	16QAM	1	0	819.0	21.05	V
26	5	QPSK	1	0	816.5	24.11	H
26	5	QPSK	1	0	819.0	24.06	H
26	5	QPSK	1	0	821.5	24.01	H
26	5	QPSK	1	0	816.5	22.15	V
26	5	QPSK	1	0	819.0	22.08	V
26	5	QPSK	1	0	821.5	22.01	V
26	5	16QAM	1	0	816.5	23.05	H
26	5	16QAM	1	0	819.0	23.01	H
26	5	16QAM	1	0	821.5	22.94	H
26	5	16QAM	1	0	816.5	21.08	V
26	5	16QAM	1	0	819.0	21.04	V
26	5	16QAM	1	0	821.5	20.95	V
26	3	QPSK	1	0	815.5	24.12	H
26	3	QPSK	1	0	819.0	24.05	H
26	3	QPSK	1	0	822.5	24.01	H
26	3	QPSK	1	0	815.5	22.18	V
26	3	QPSK	1	0	819.0	22.11	V
26	3	QPSK	1	0	822.5	21.95	V
26	3	16QAM	1	0	815.5	23.18	H
26	3	16QAM	1	0	819.0	23.15	H
26	3	16QAM	1	0	822.5	23.03	H

26	3	16QAM	1	0	815.5	21.12	V
26	3	16QAM	1	0	819.0	21.03	V
26	3	16QAM	1	0	822.5	20.95	V
26	1.4	QPSK	1	0	814.7	24.35	H
26	1.4	QPSK	1	0	819.0	24.24	H
26	1.4	QPSK	1	0	823.3	24.11	H
26	1.4	QPSK	1	0	814.7	22.21	V
26	1.4	QPSK	1	0	819.0	22.12	V
26	1.4	QPSK	1	0	823.3	22.01	V
26	1.4	16QAM	1	0	814.7	23.25	H
26	1.4	16QAM	1	0	819.0	23.18	H
26	1.4	16QAM	3	0	823.3	23.14	H
26	1.4	16QAM	1	0	814.7	21.03	V
26	1.4	16QAM	1	0	819.0	20.95	V
26	1.4	16QAM	1	0	823.3	20.90	V

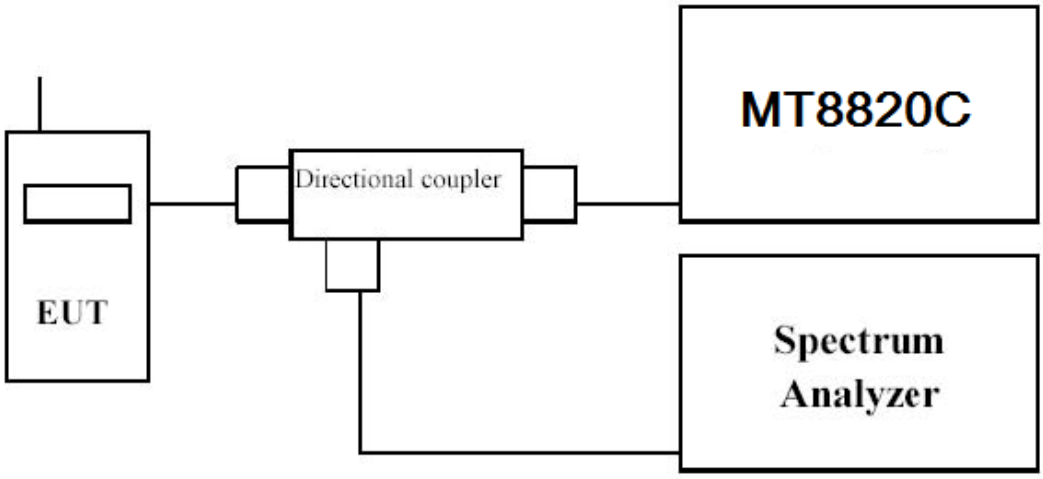
4. Modulation Characteristic

4.1. Test Equipment

Modulation Characteristic / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	Anritsu	MT8820C	6201181503	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

4.2. Test Setup



4.3. Limit

N/A

4.4. Uncertainty

The measurement uncertainty is defined as 0.1%

4.5. Test Result

The modulation of GSM/WCDMA was verified and confirmed compliance with requirement.

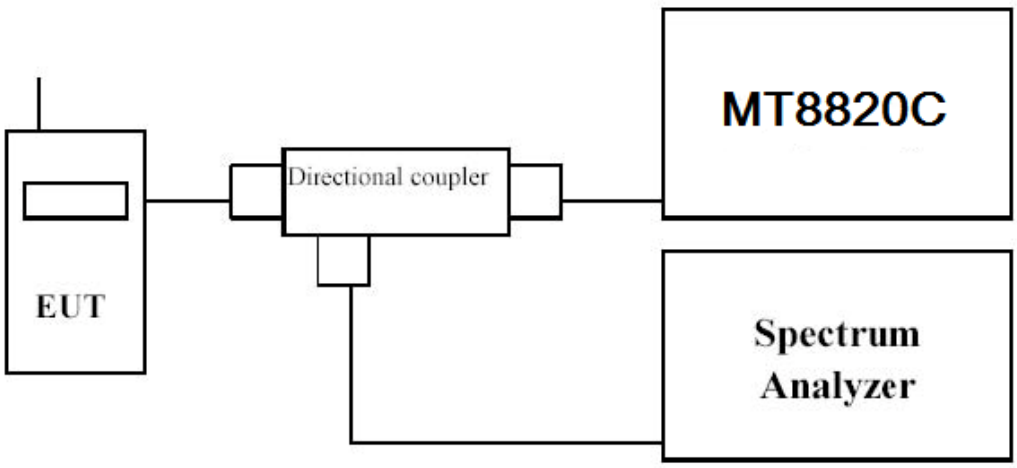
5. Occupied Bandwidth

5.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

5.2. Test Setup



5.3. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

5.4. Uncertainty

The measurement uncertainty is defined as ± 10 Hz

5.5. Test Result

LTE Band 26 For Part 22H

Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(15M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26865	831.50	13480.90	14949.00
26915	836.50	13448.30	14843.00
26965	841.50	13449.50	14860.00

Figure Channel 26865 75RB0 (831.50MHz)

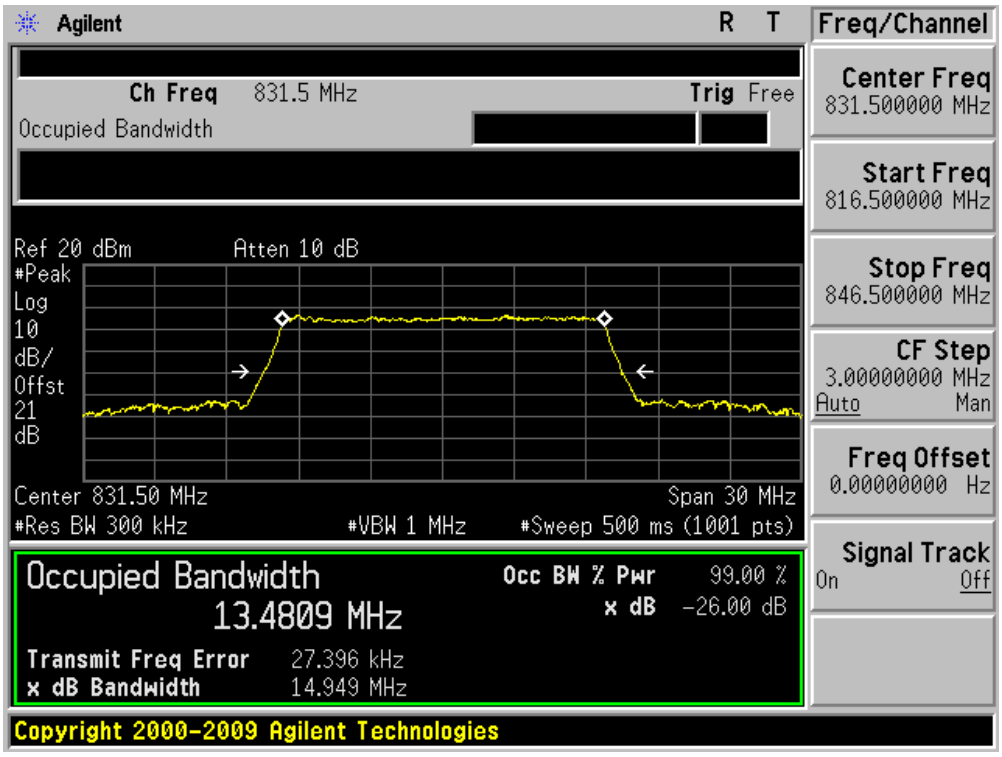


Figure Channel 26915 75RB0 (836.500MHz)

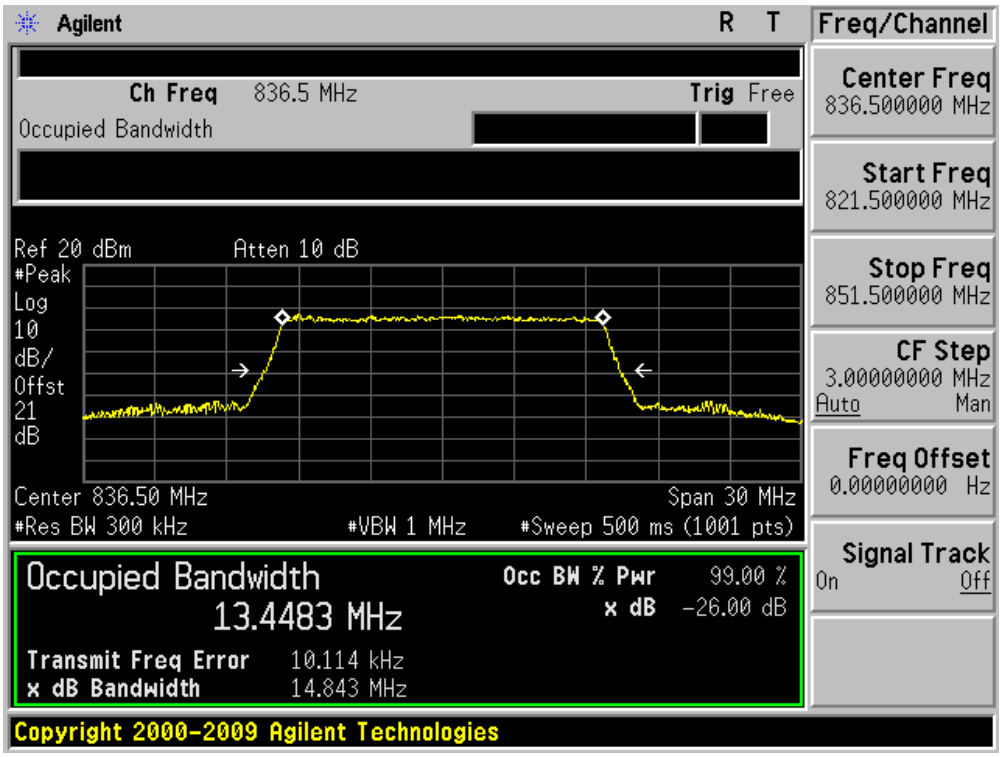
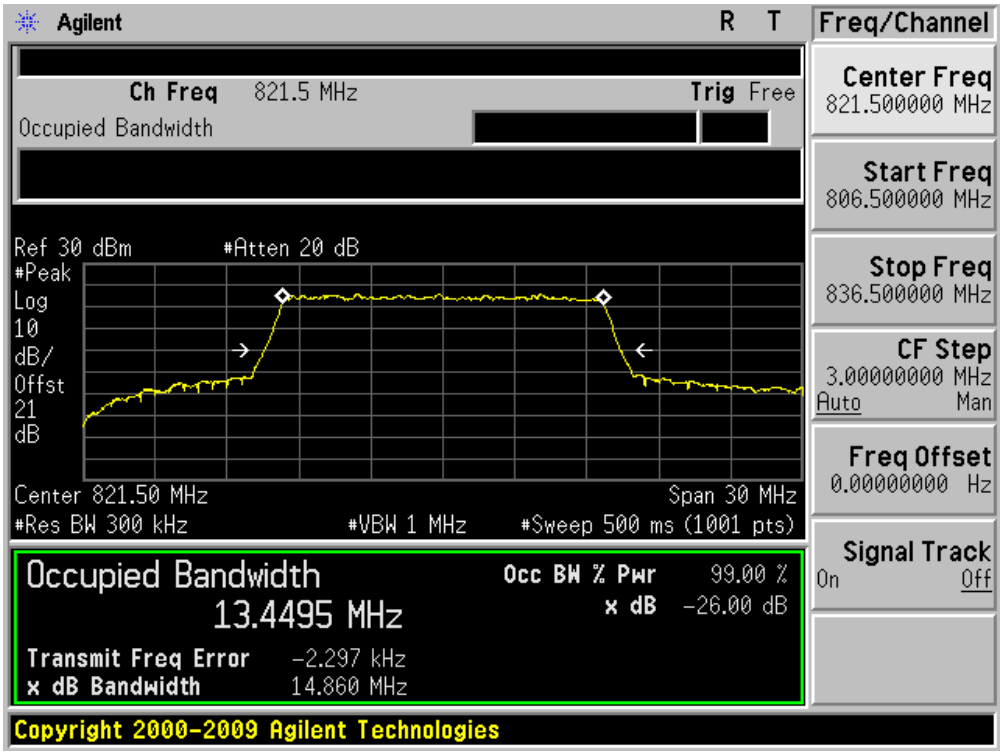


Figure Channel 26965 75RB0 (841.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (15M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26865	831.50	13464.80	14848.00
26915	836.50	13462.40	14866.00
26965	841.50	13427.50	14801.00

Figure Channel 26865 75RB0 (831.50MHz)

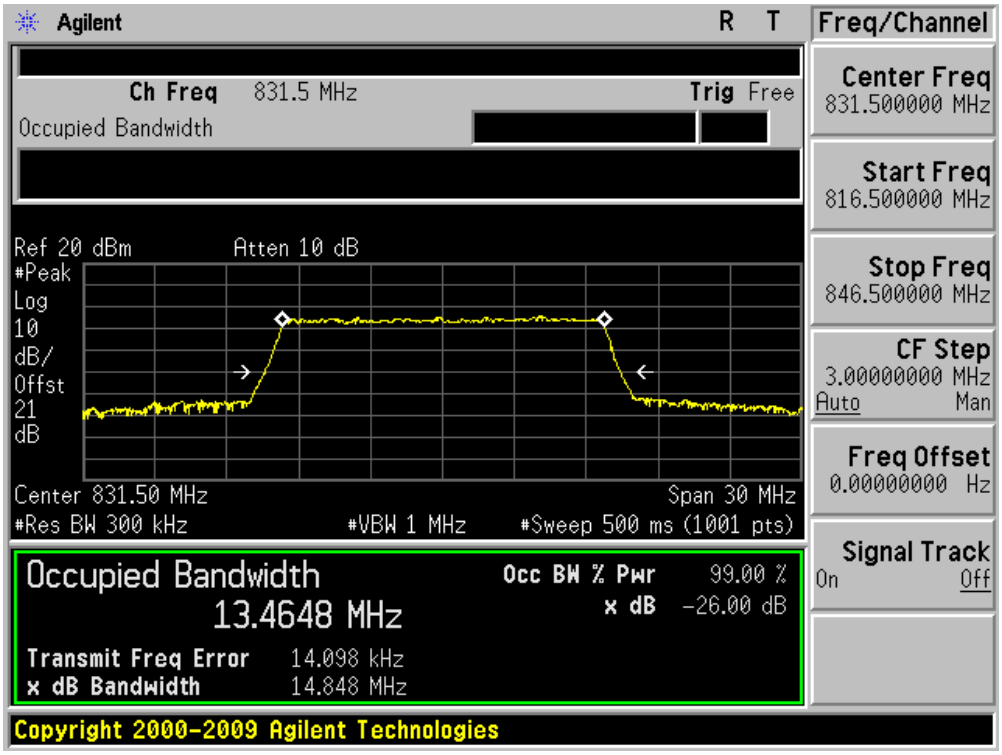


Figure Channel 26915 75RB0 (836.50MHz)

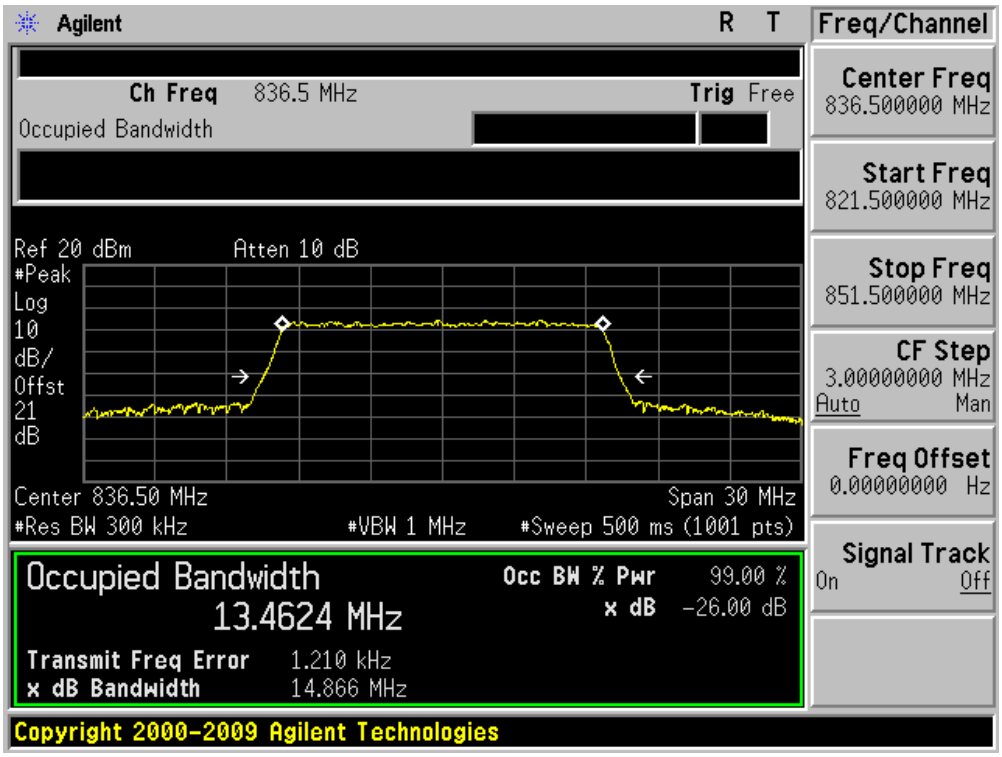
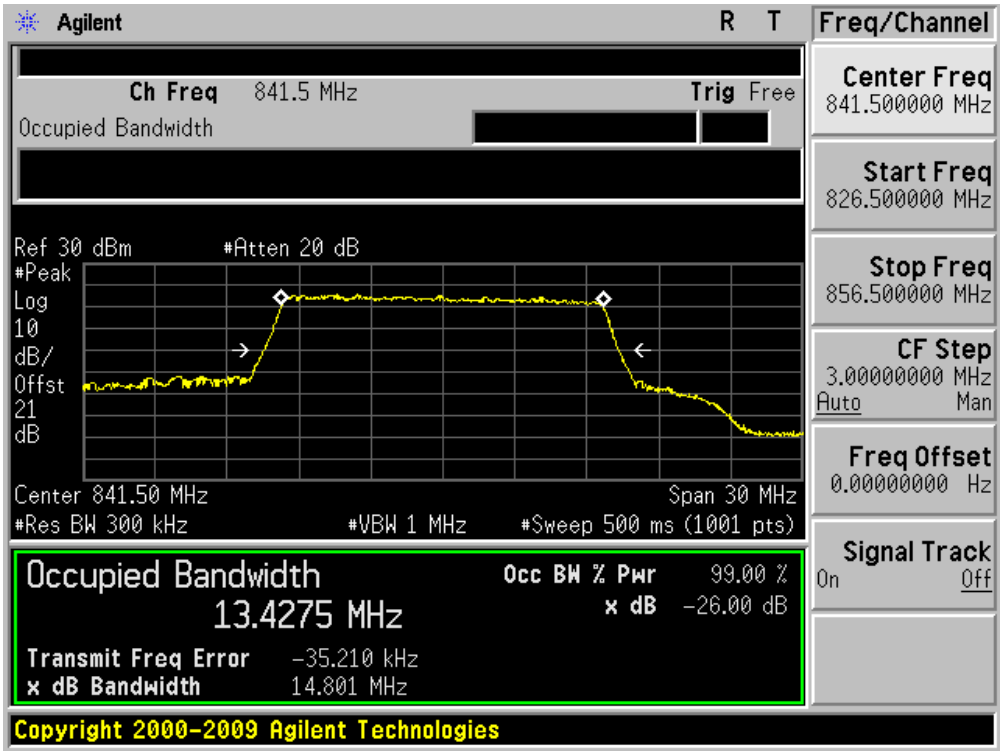


Figure Channel 26965 75RB0 (841.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26840	829.00	9085.80	10167.00
26915	836.50	9064.20	10148.00
26990	844.00	9065.50	10182.00

Figure Channel 26840 50RB0 (829.00MHz)

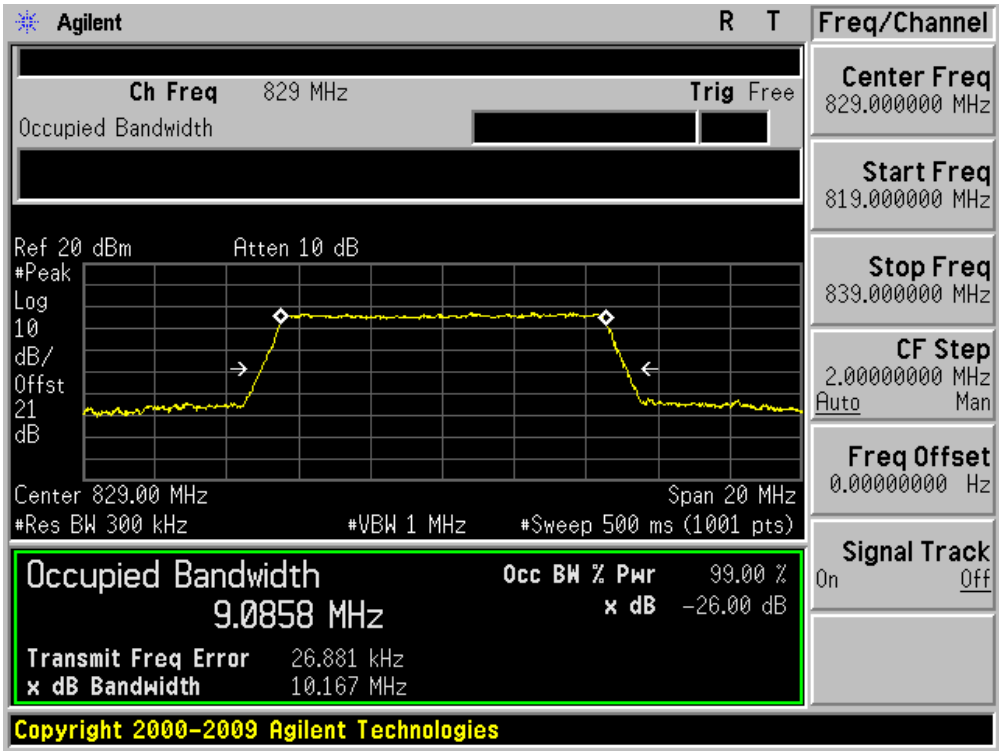


Figure Channel 26915 50RB0 (836.50MHz)

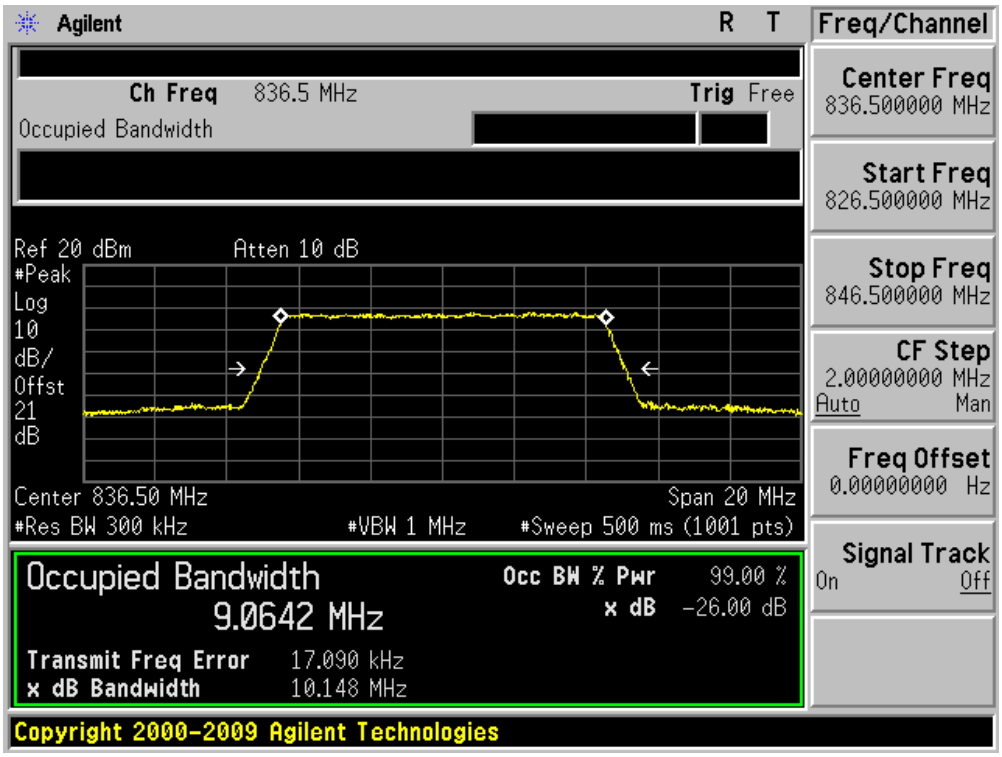
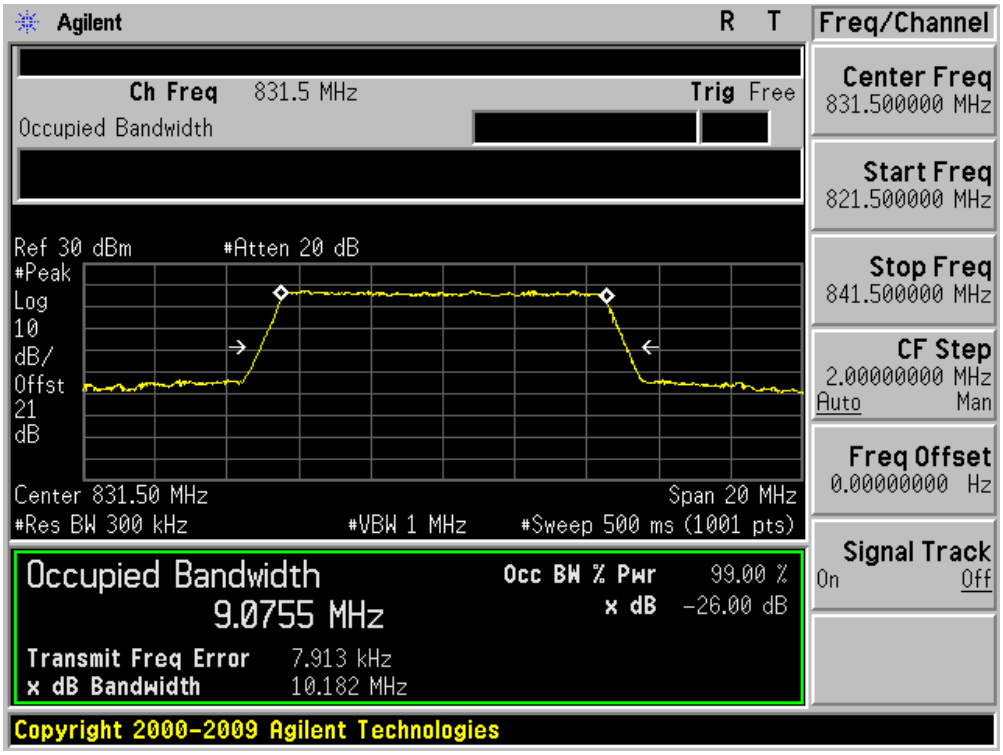


Figure Channel 26990 50RB0 (844.00MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26840	829.00	9036.50	10142.00
26915	836.50	9024.20	10150.00
26990	844.00	9030.80	10123.00

Figure Channel 26840 50RB0 (829.00MHz)

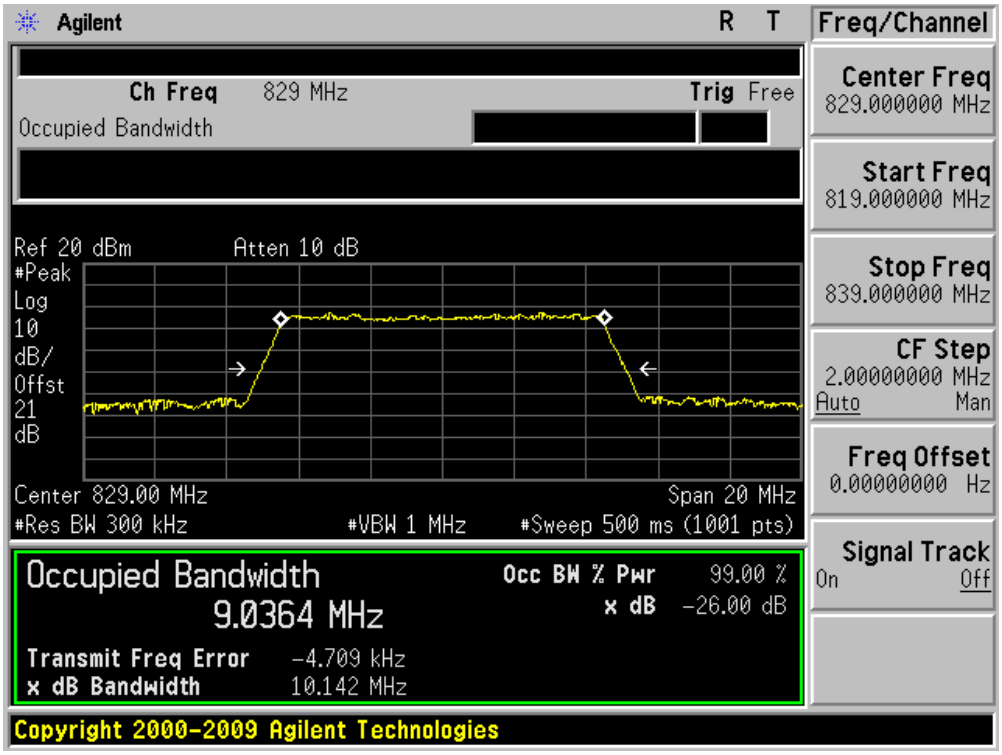


Figure Channel 26915 50RB0 (836.50MHz)

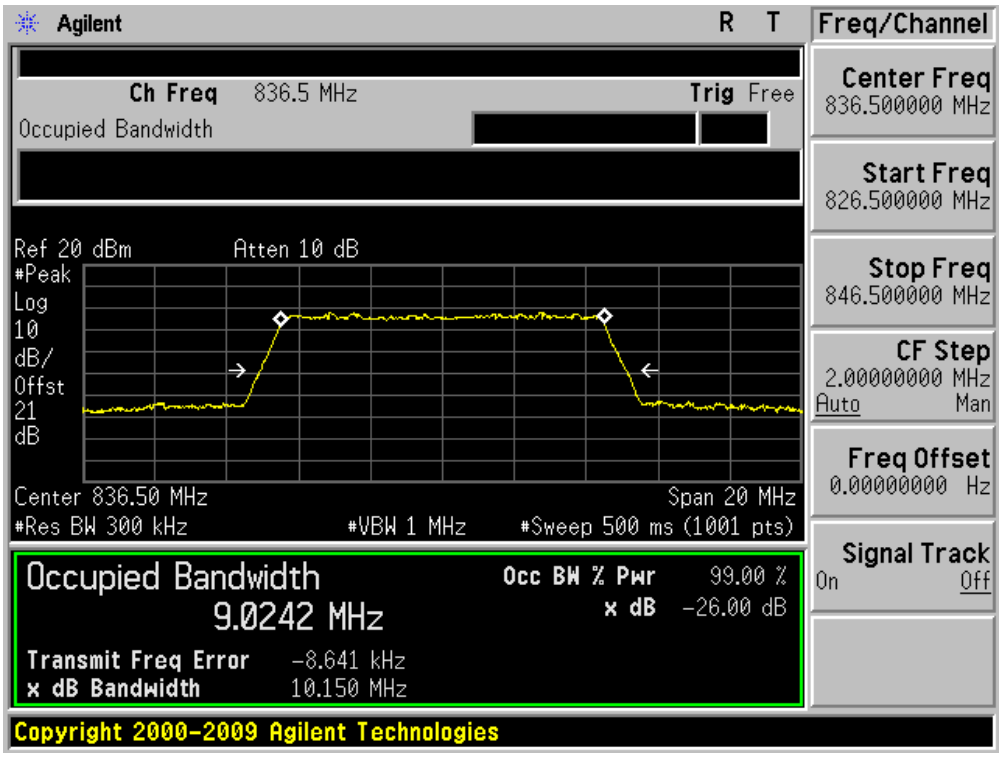
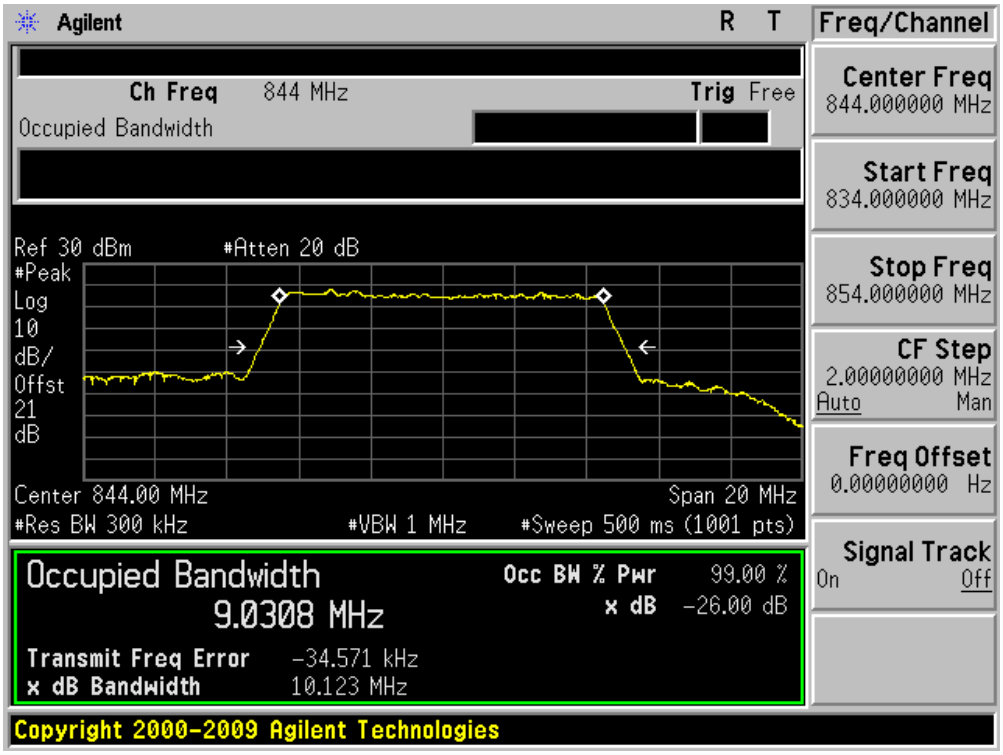


Figure Channel 26990 50RB0 (844.00MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(5M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26815	826.50	4505.20	5064.00
26805	836.50	4501.50	5093.00
27015	846.50	4504.10	5045.00

Figure Channel 26815 25RB0 (826.50MHz)

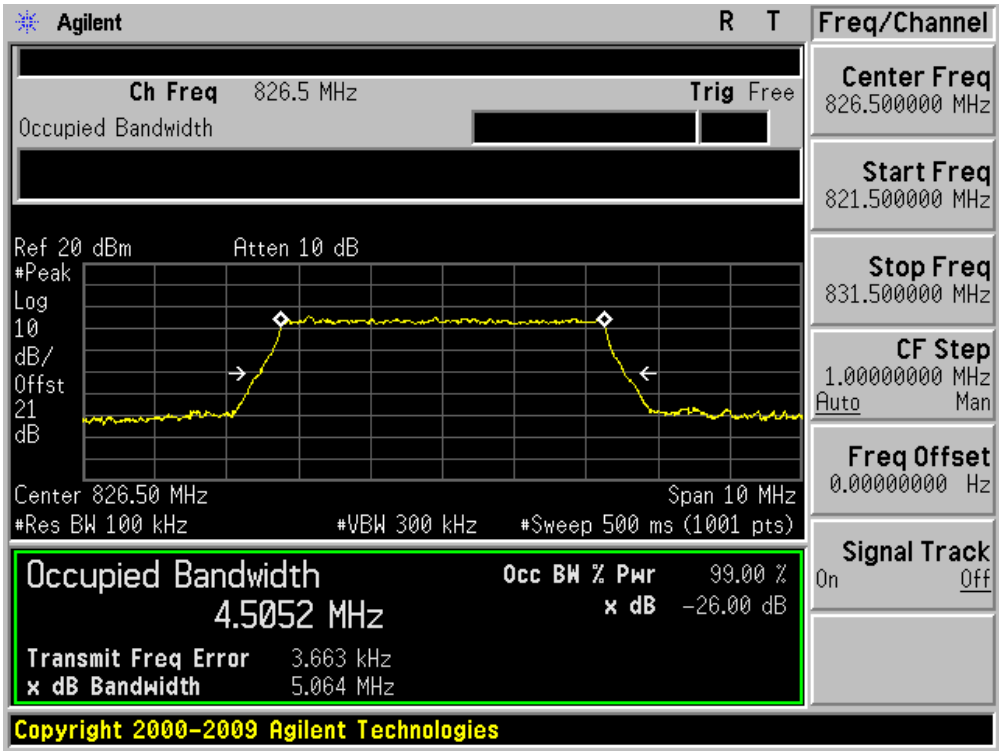


Figure Channel 26805 25RB0 (836.50MHz)

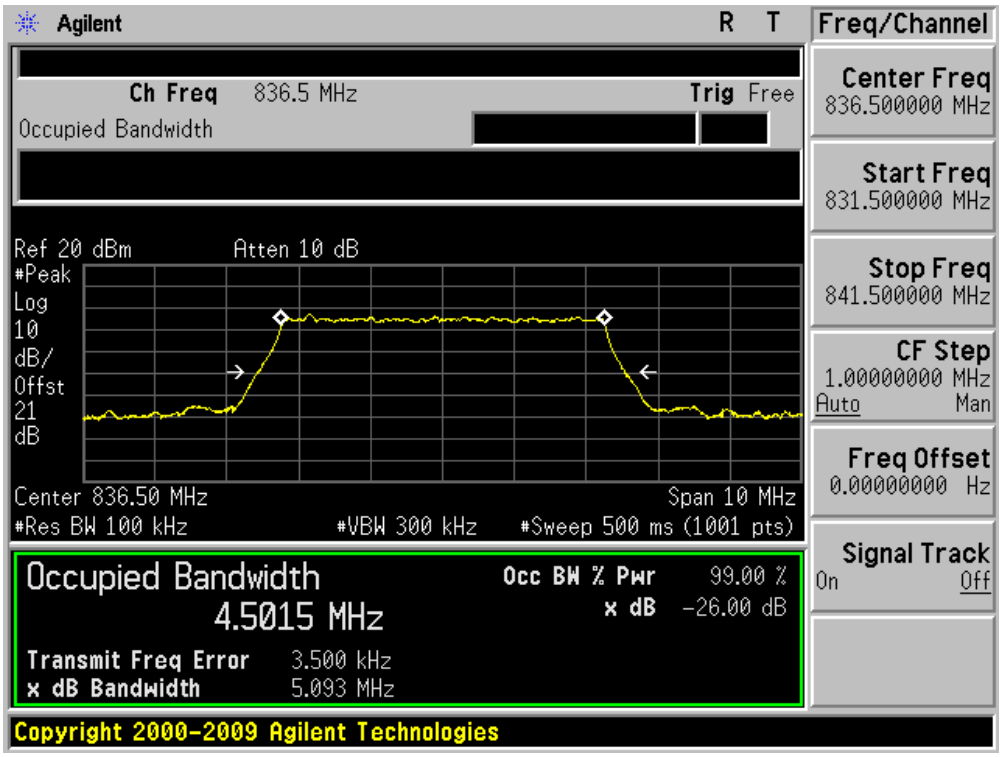
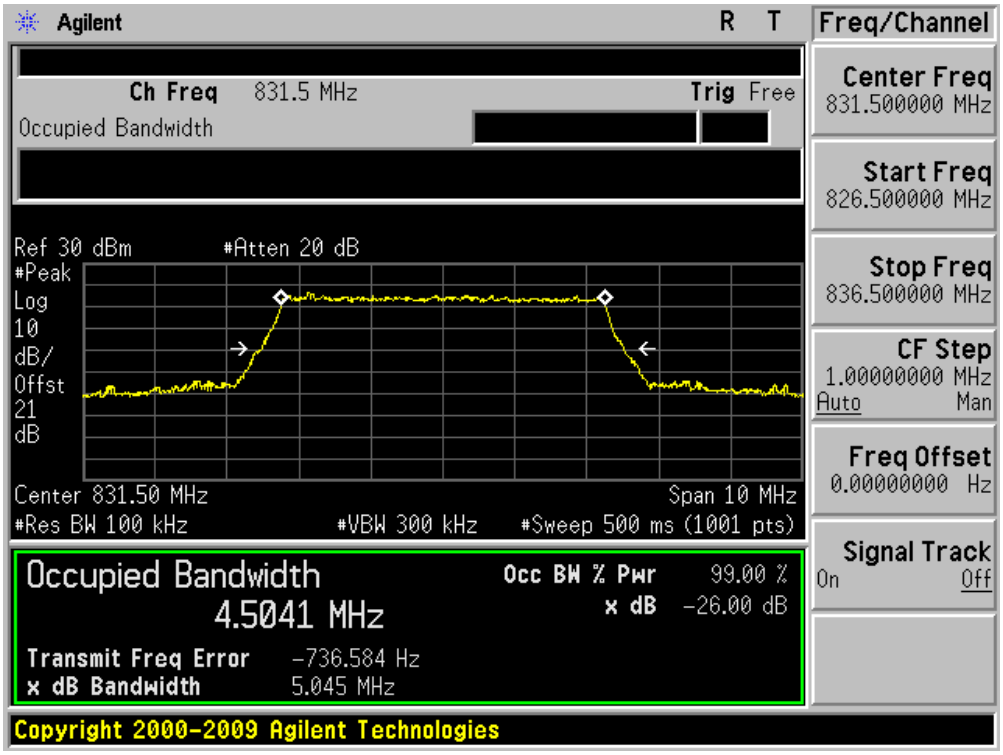


Figure Channel 20715 25RB0 (846.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26815	826.50	4483.50	5012.00
26805	836.50	4483.40	5012.00
27015	846.50	4485.10	5025.00

Figure Channel 26815 25RB0 (826.50MHz)

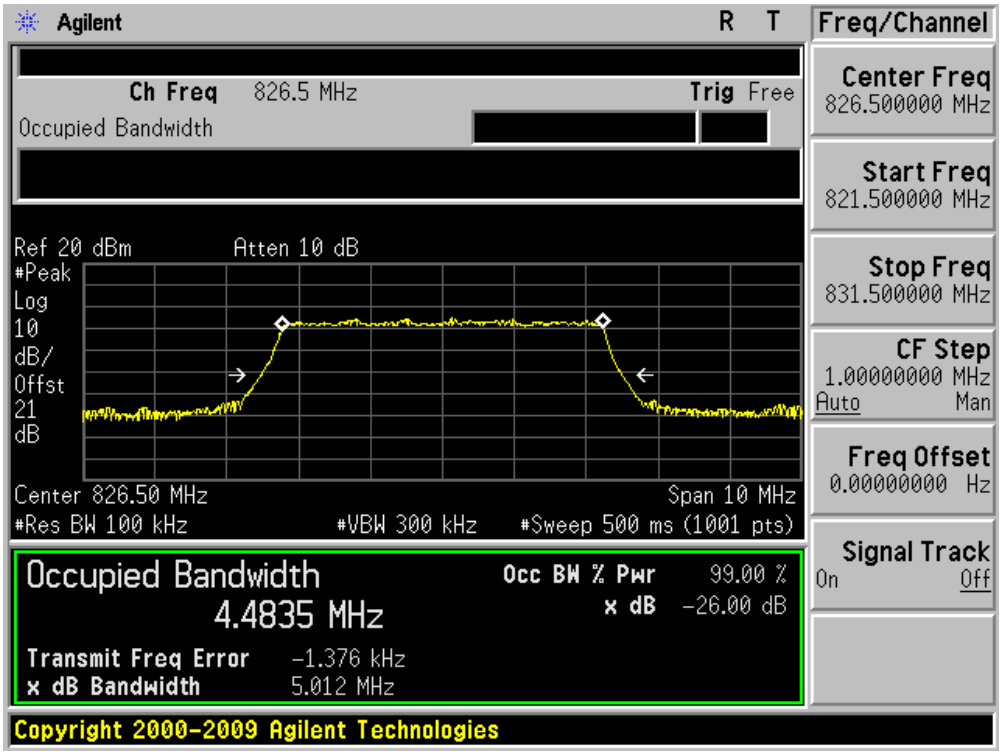


Figure Channel 26805 25RB0 (836.50MHz)

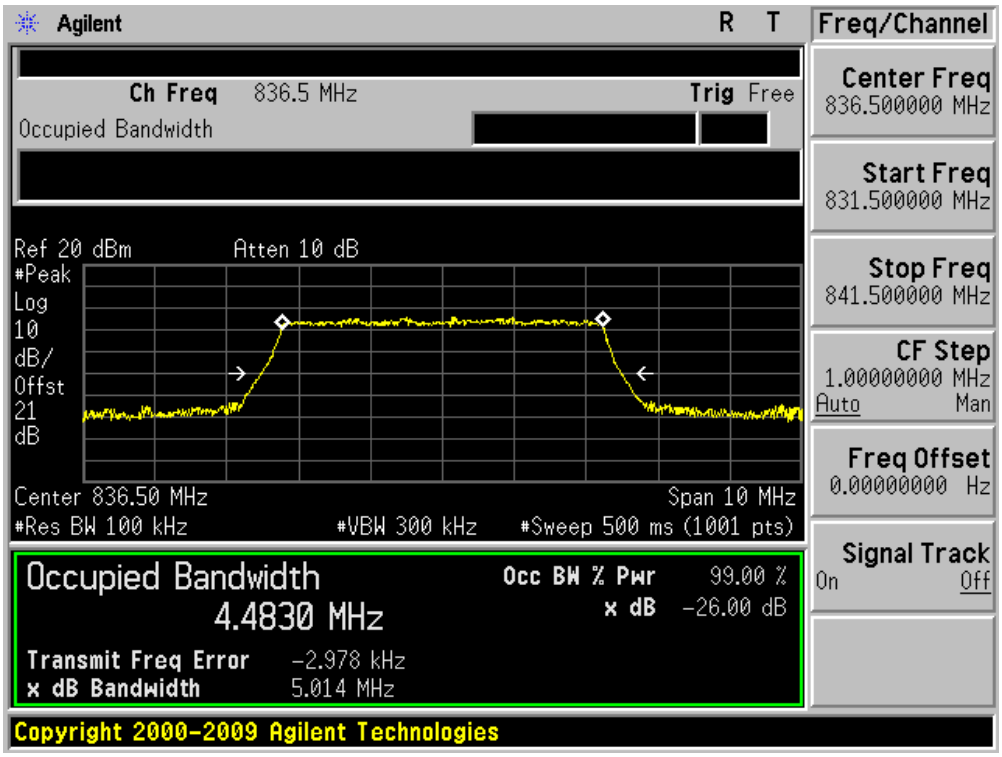
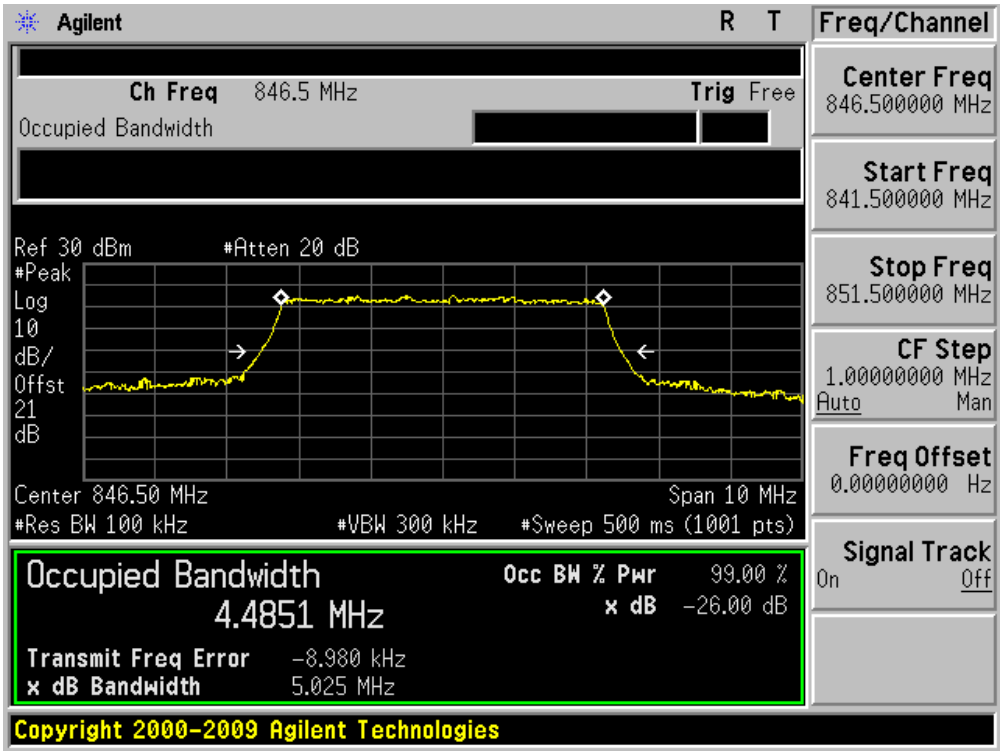


Figure Channel 27015 25RB0 (846.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(3M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26805	825.50	2734.40	3115.00
26915	836.50	2733.40	3110.00
27025	846.50	2731.40	3145.00

Figure Channel 26805 15RB0 (825.50MHz)

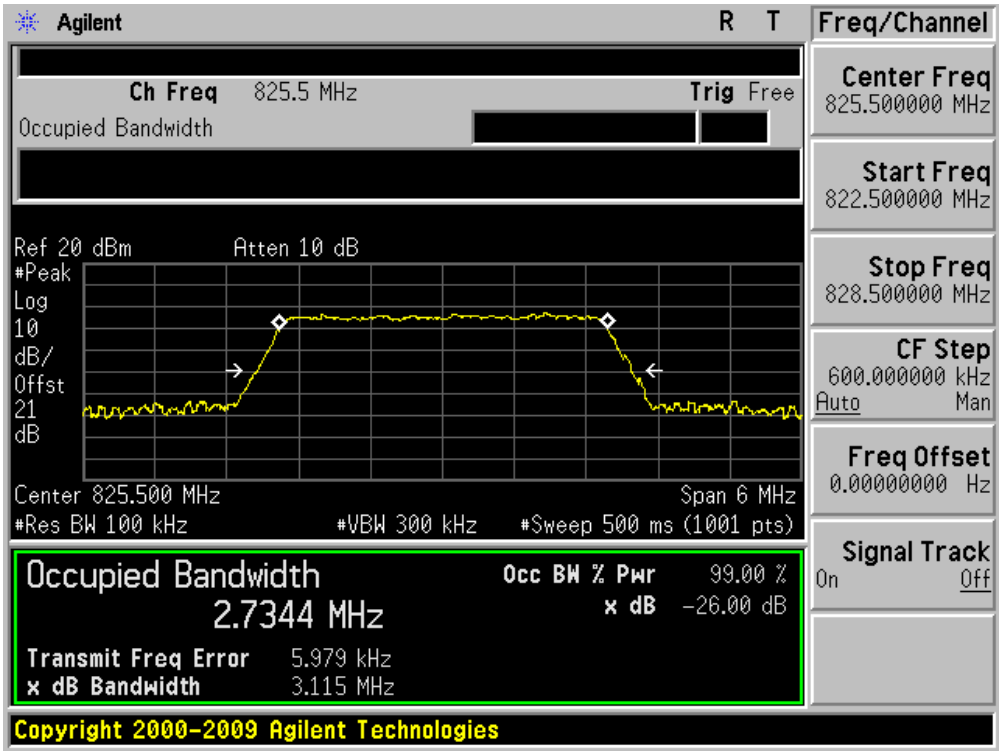


Figure Channel 26915 15RB0 (836.50MHz)

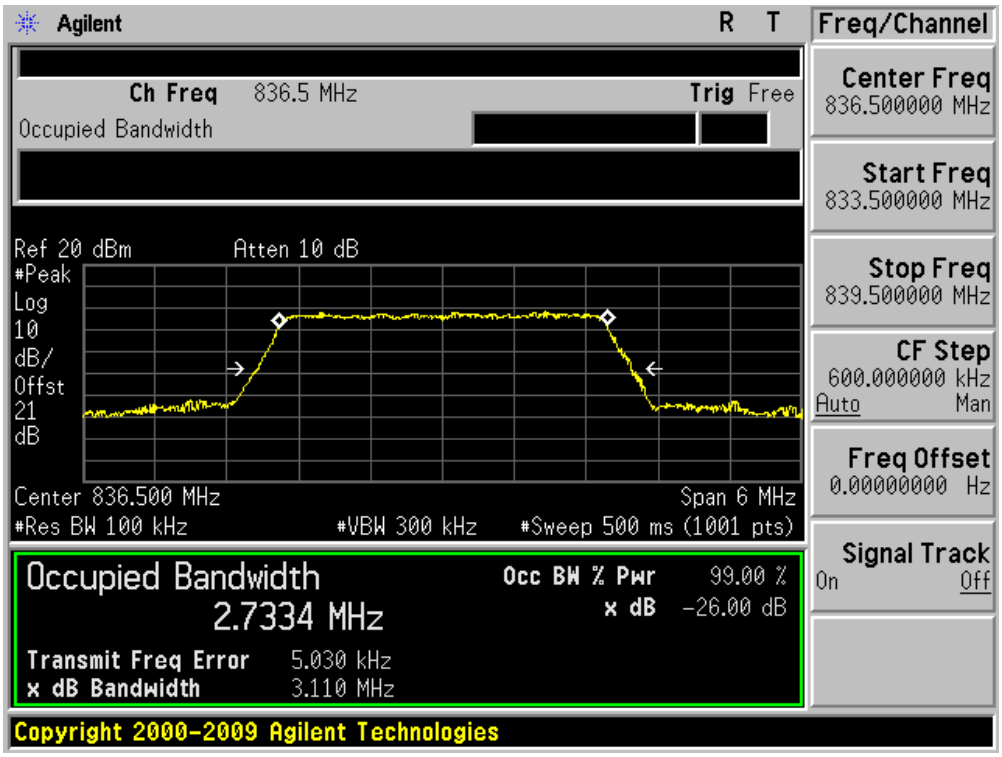
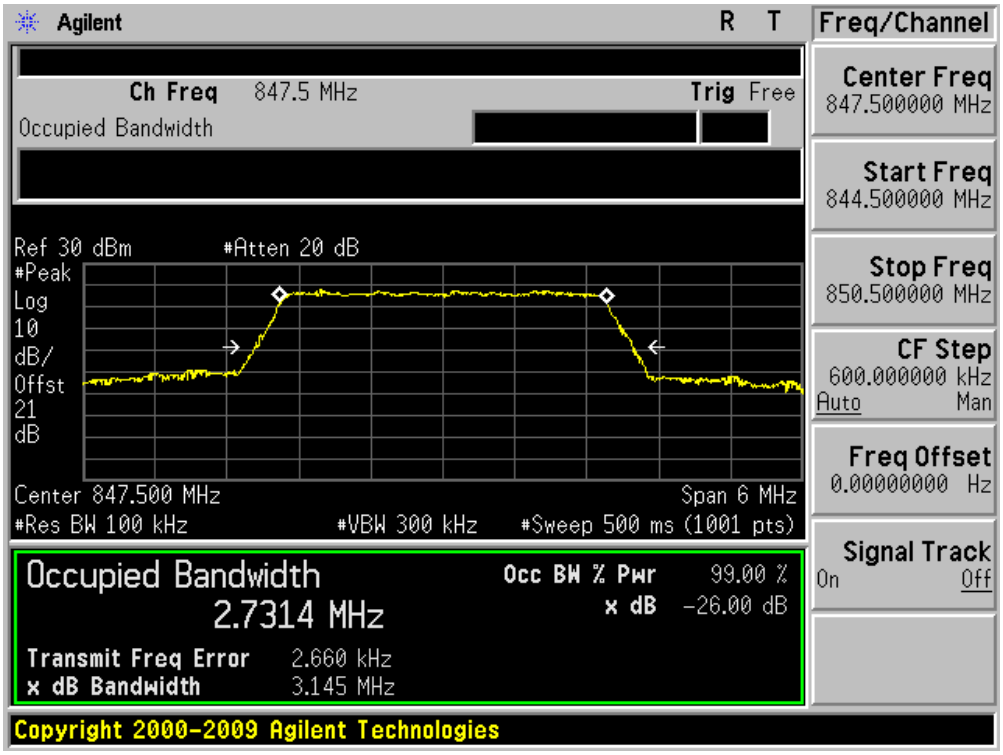


Figure Channel 27025 15RB0 (847.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26805	825.50	2741.80	3169.00
26915	836.50	2741.00	3166.00
27025	846.50	2735.20	3153.00

Figure Channel 26805 15RB0 (825.50MHz)

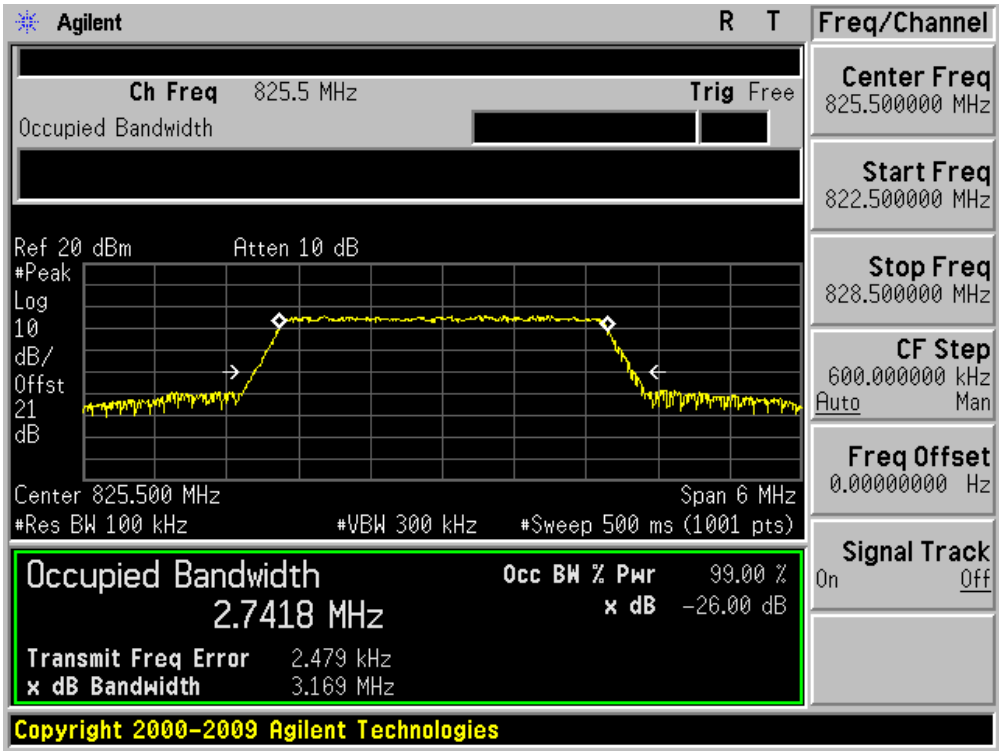


Figure Channel 26915 15RB0 (836.50MHz)

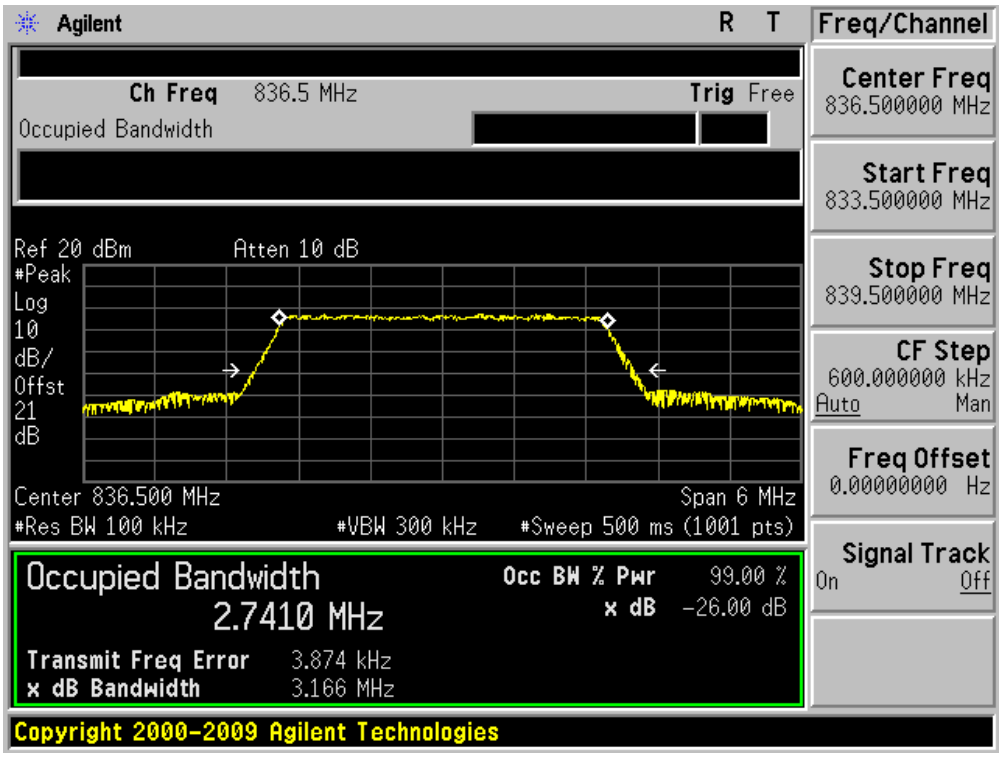
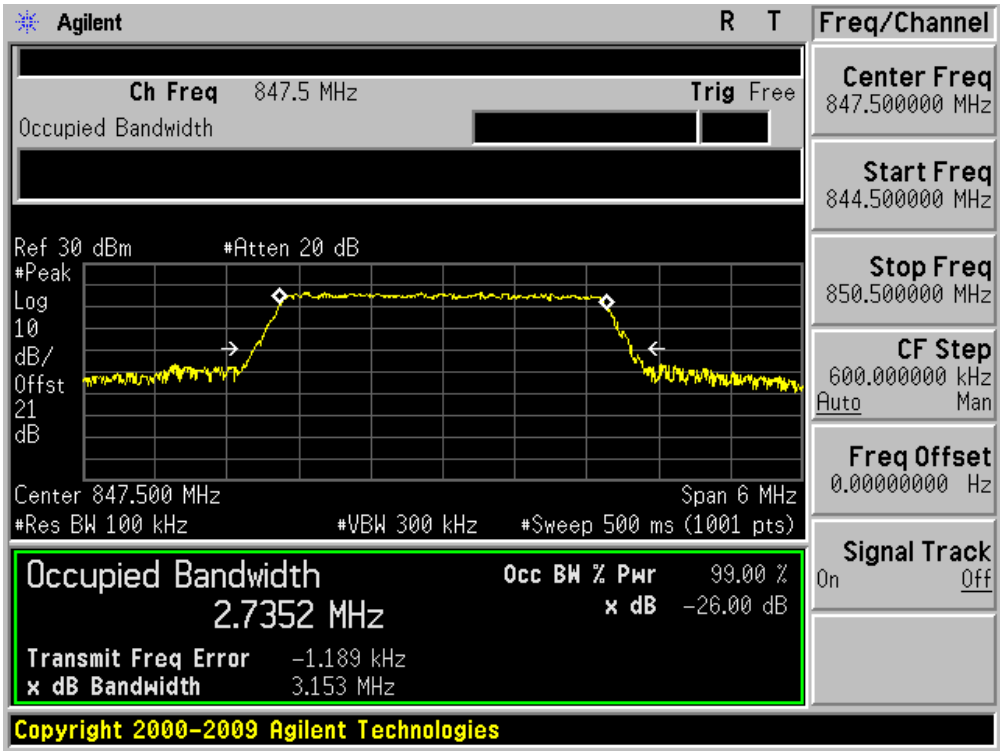


Figure Channel 27025 15RB0 (847.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26797	824.70	1090.80	1290.00
26915	831.50	1090.90	1300.00
27033	848.30	1091.80	1297.00

Figure Channel 26797 7RB0 (824.70MHz)

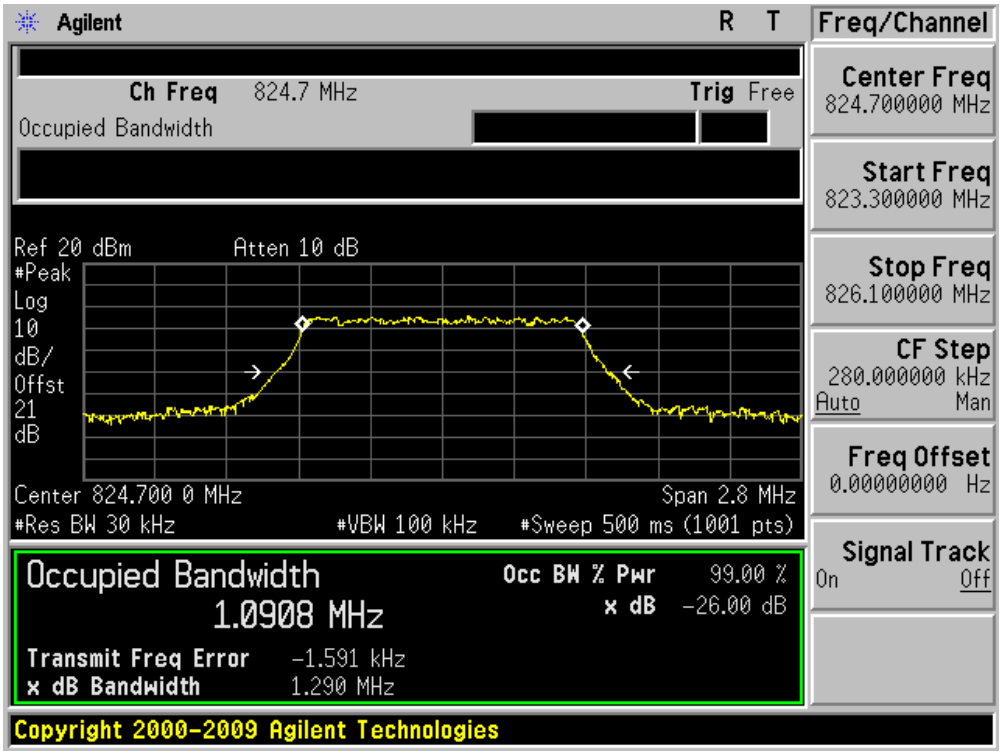


Figure Channel 26915 7RB0 (836.50MHz)

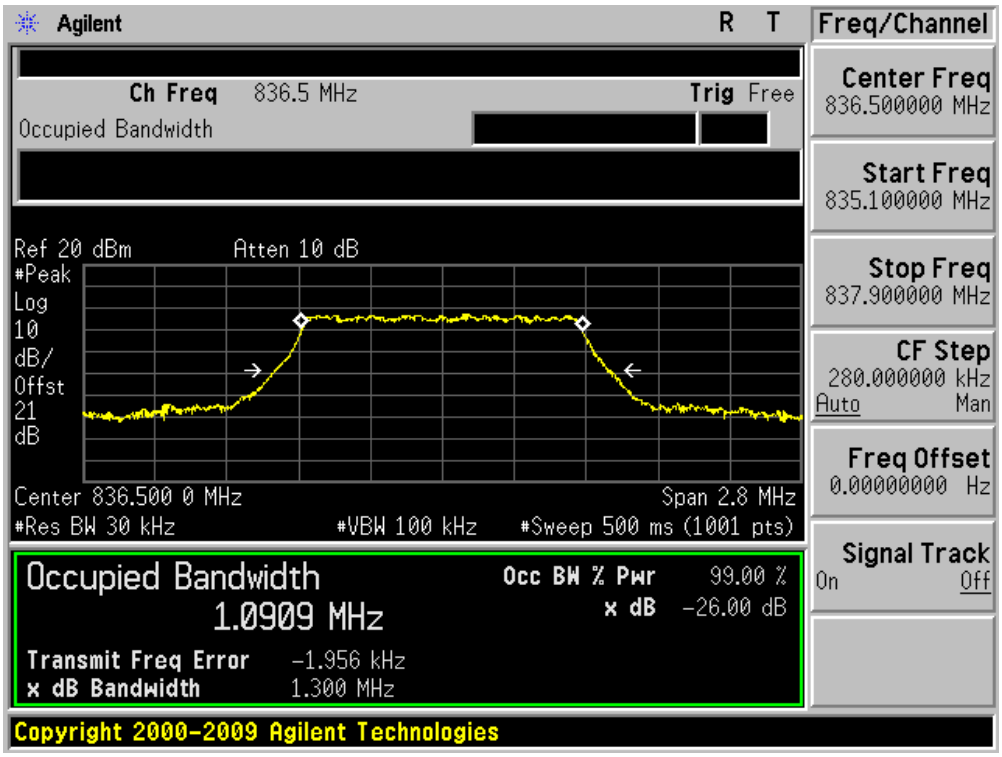
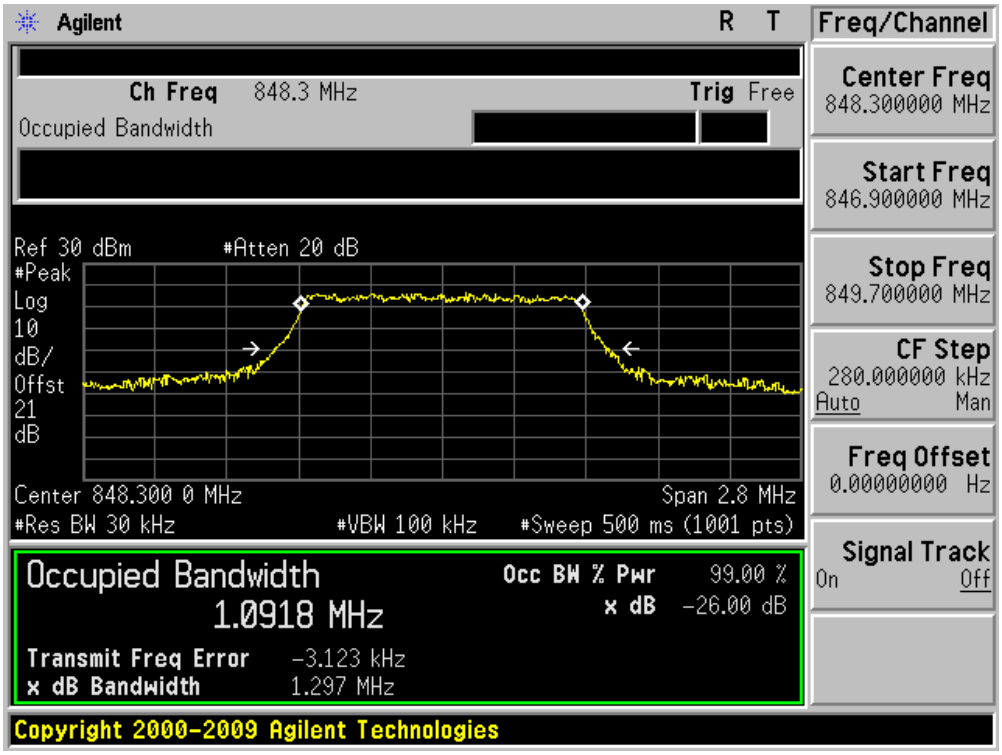


Figure Channel 27033 7RB0 (848.3MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26797	824.70	1104.40	1309.00
26915	836.50	1101.10	1306.00
27033	848.30	1100.80	1312.00

Figure Channel 26797 7RB0 (824.70MHz)

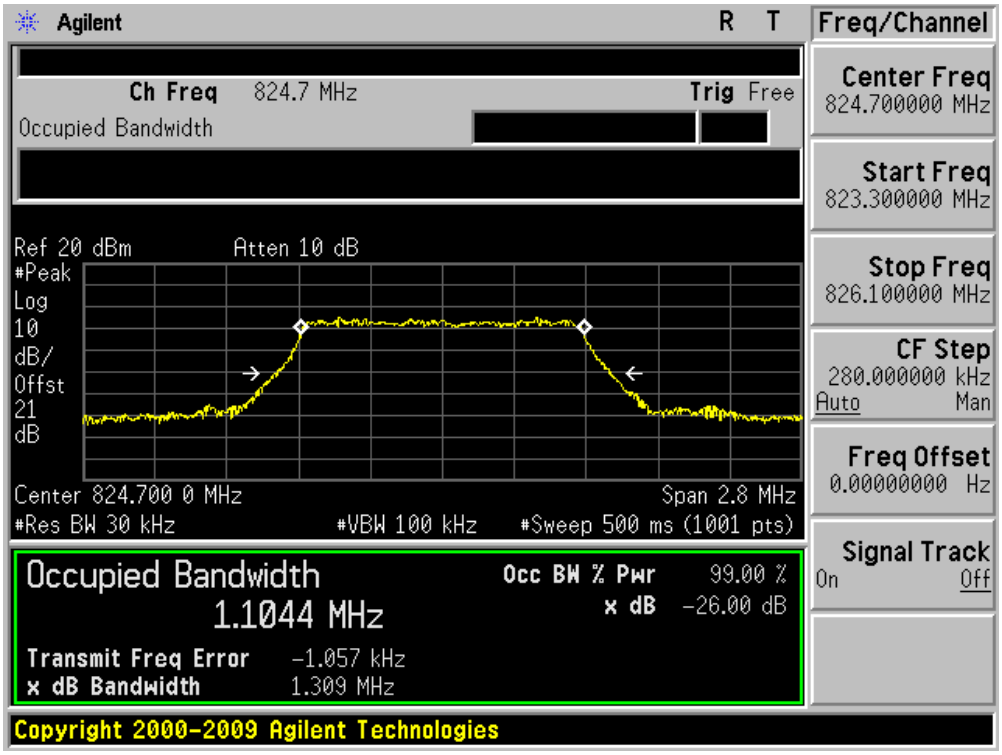


Figure Channel 26915 7RB0 (836.50MHz)

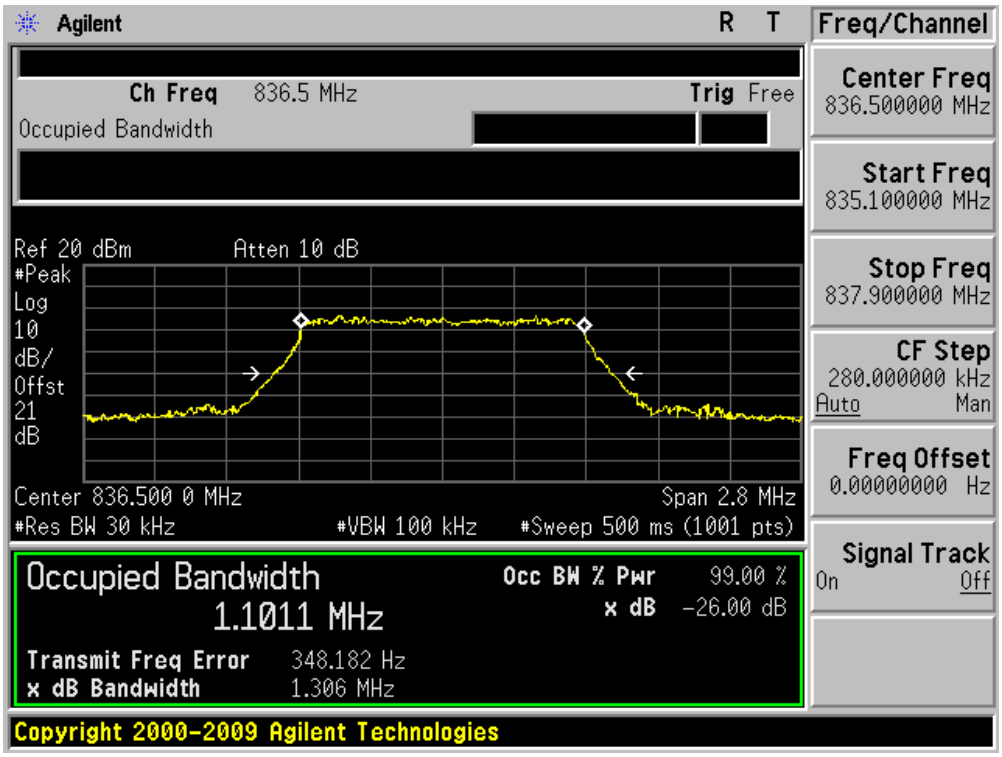
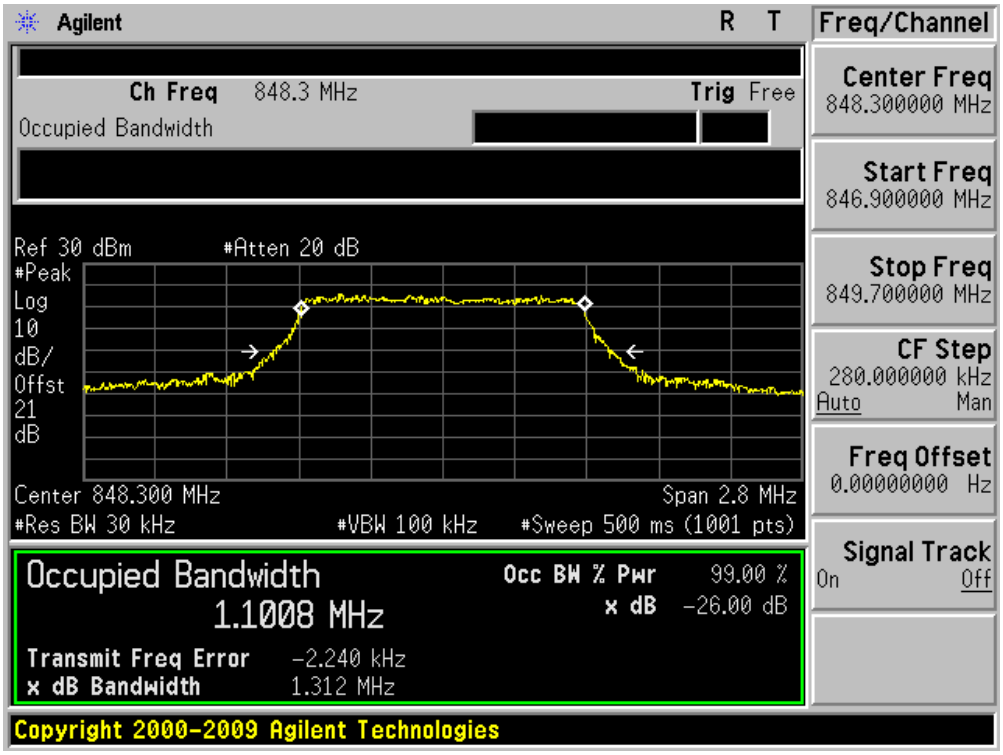


Figure Channel 27033 7RB0 (848.30MHz)

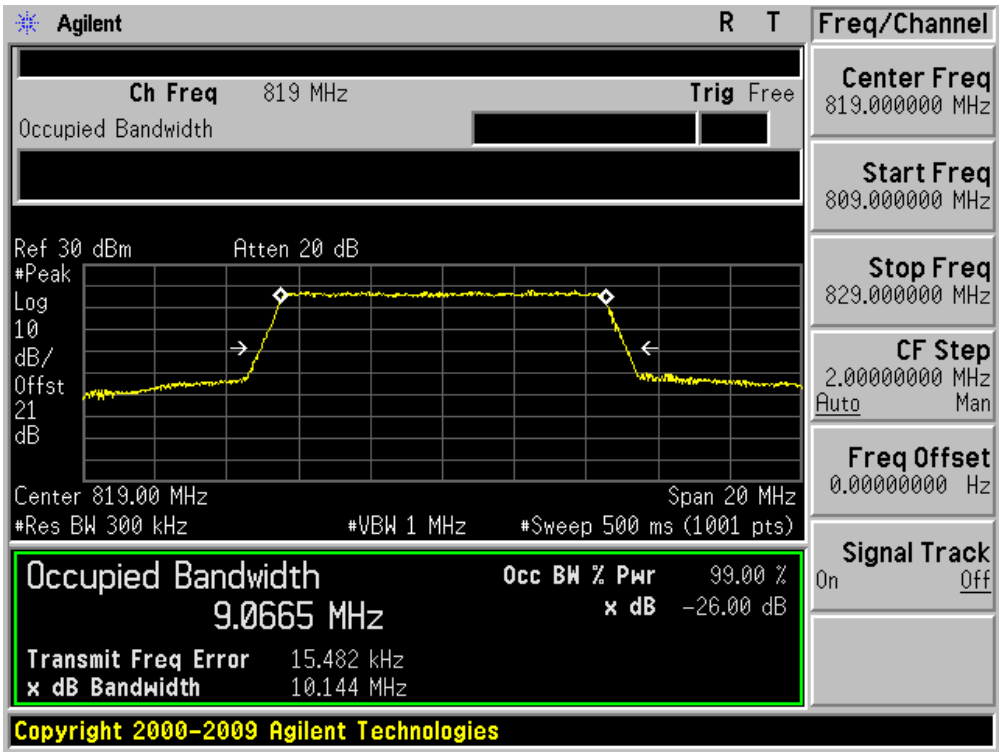


LTE Band 26 For Part 90S

Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26740	819.00	9066.5	10144.00

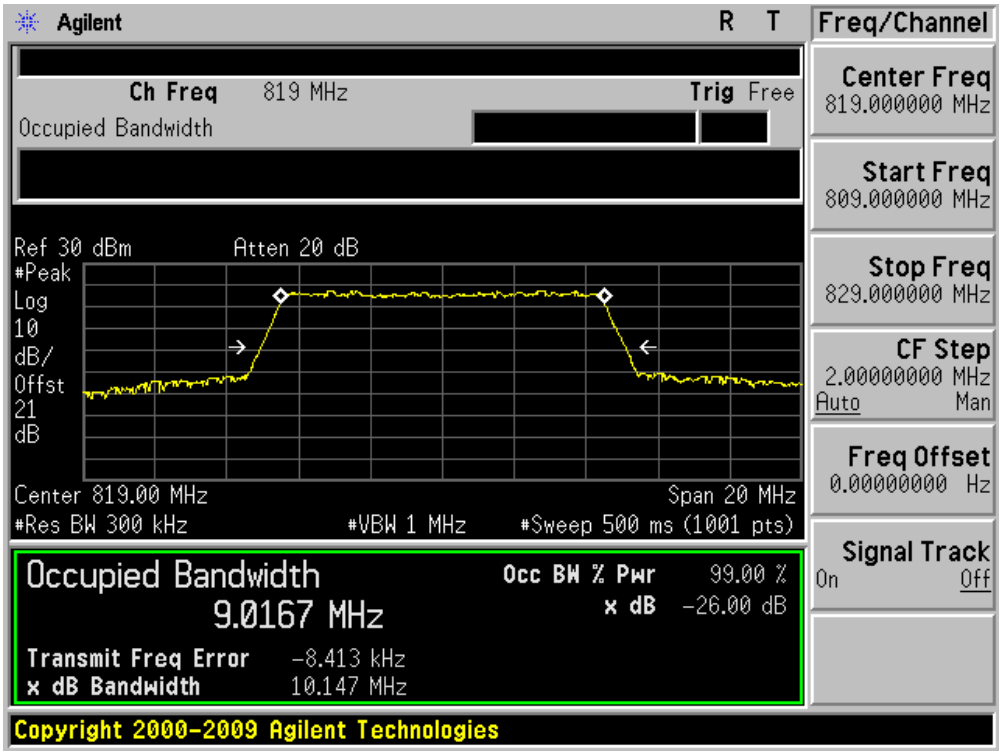
Figure Channel 26740 50RB0 (819.00MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26740	819.00	9016.70	10147.00

Figure Channel 26740 50RB0 (819.00MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(5M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26715	816.50	4503.90	5073.00
26740	819.00	4503.70	5057.00
26765	821.50	4502.50	5071.00

Figure Channel 26715 25RB0 (816.50MHz)

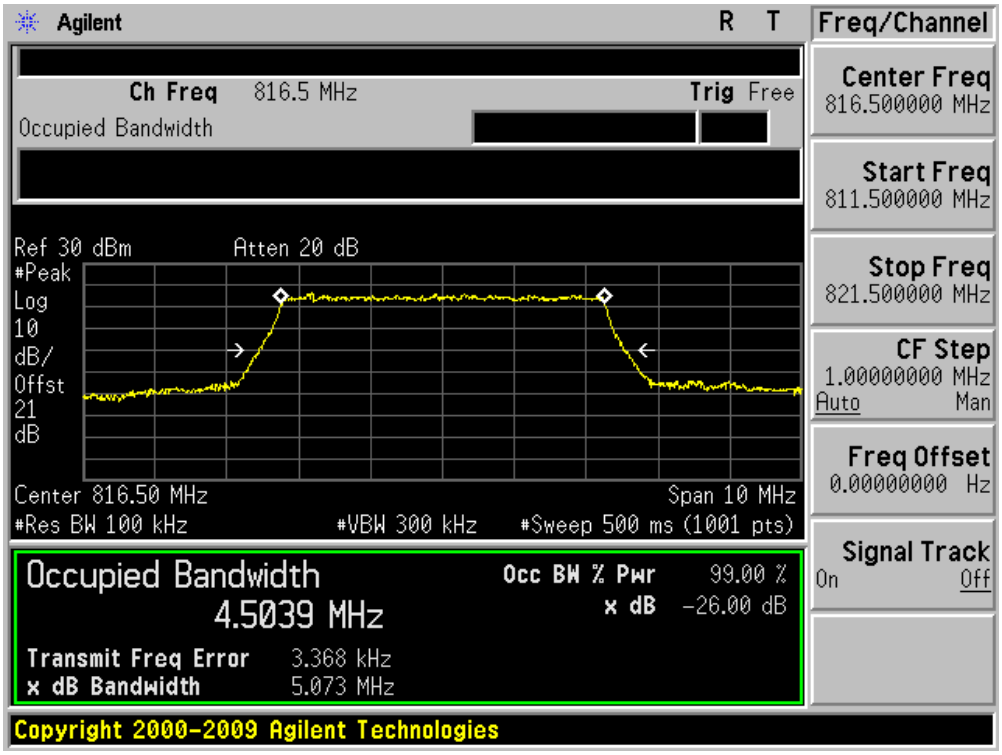


Figure Channel 26740 25RB0 (819.00MHz)

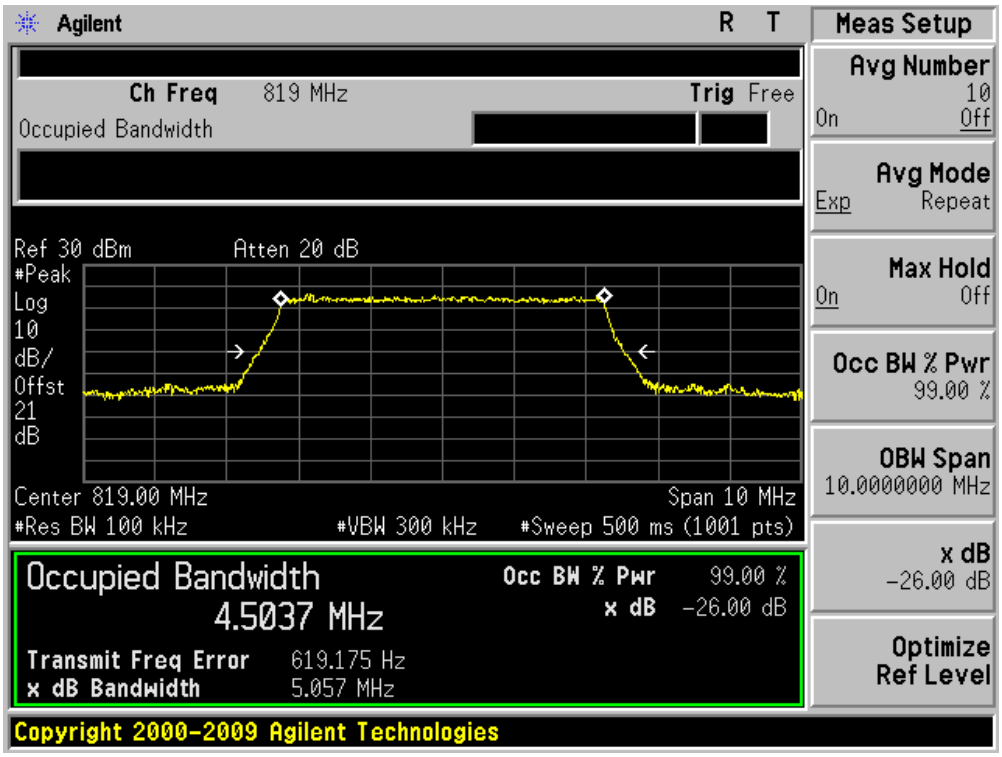
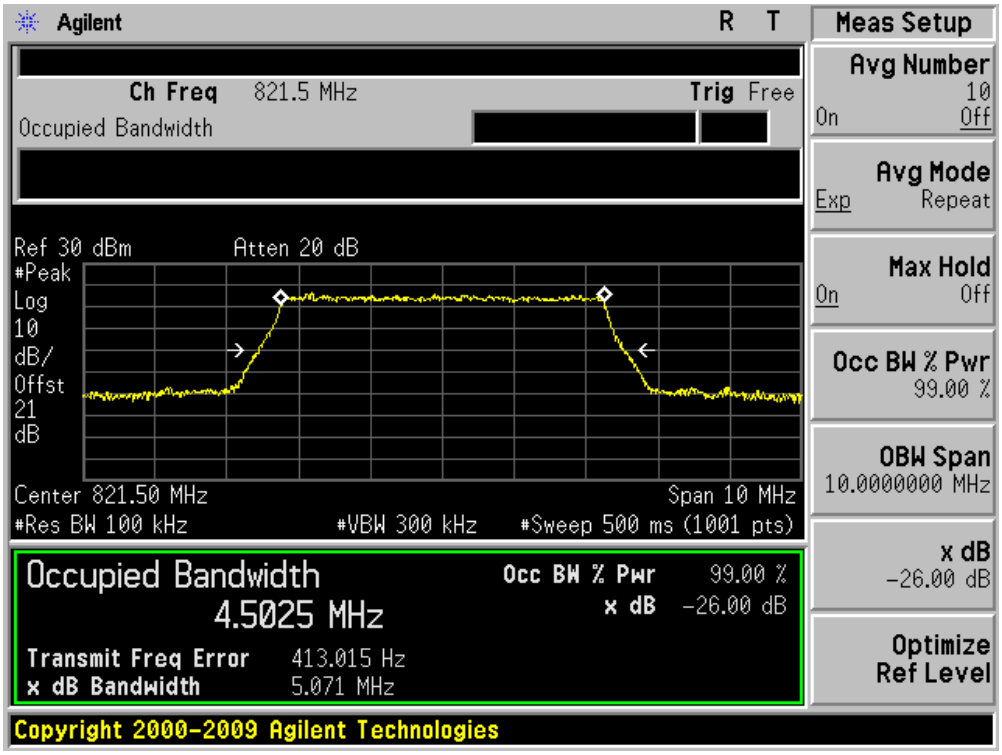


Figure Channel 26765 25RB0 (821.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26715	816.50	4485.60	5015.00
26740	819.00	4488.00	5020.00
26765	821.50	4488.00	5020.00

Figure Channel 26715 25RB0 (816.50MHz)

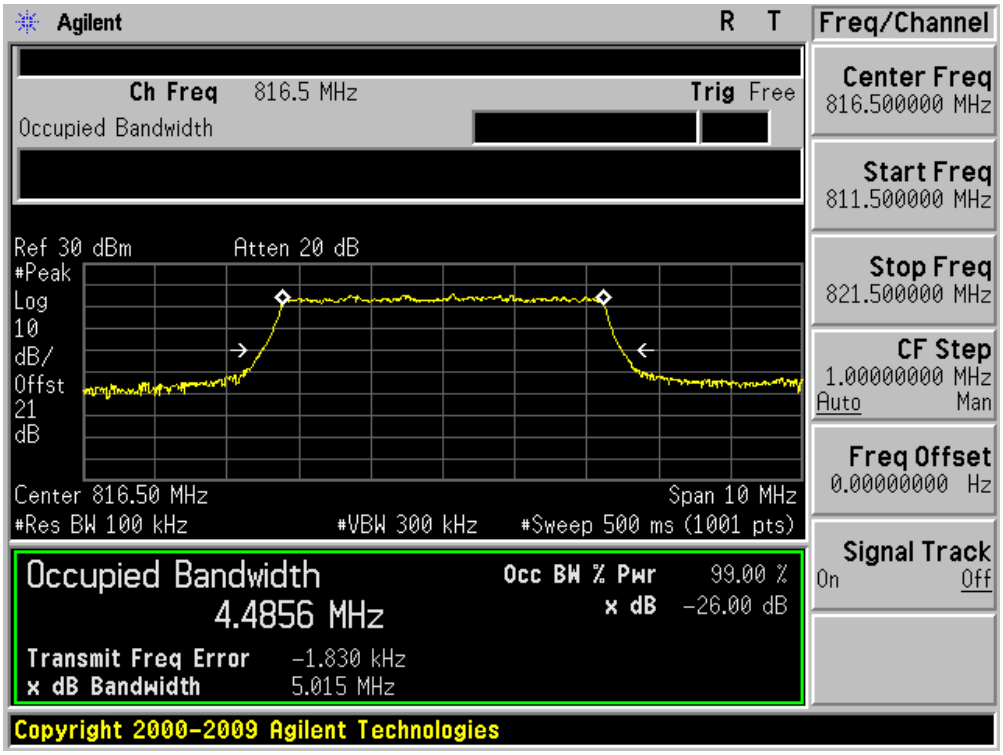


Figure Channel 26740 25RB0 (819.00MHz)

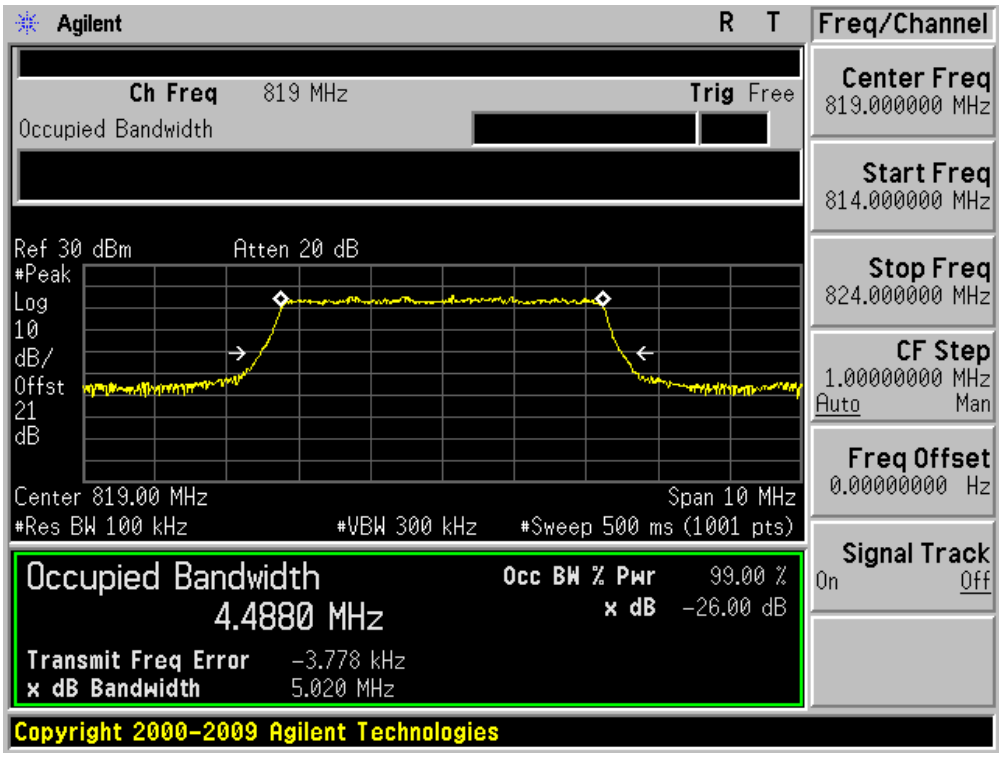
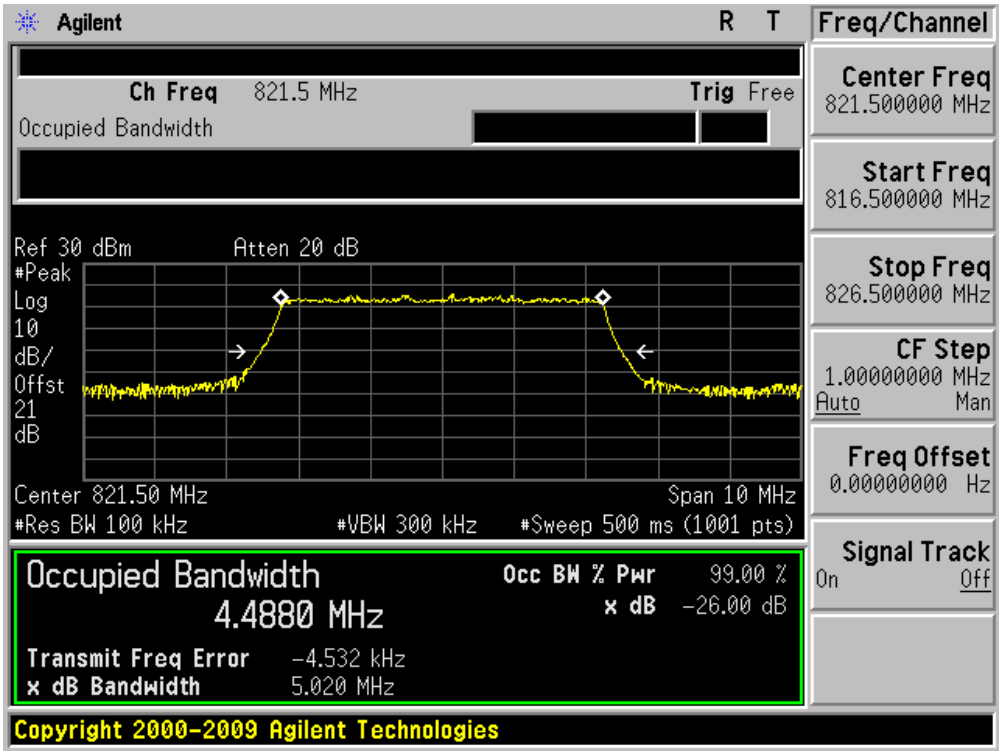


Figure Channel 26765 25RB0 (821.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(3M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26705	815.50	2730.70	3145.00
26740	819.00	2730.60	3110.00
26775	822.50	2727.20	3125.00

Figure Channel 26705 15RB0 (815.50MHz)

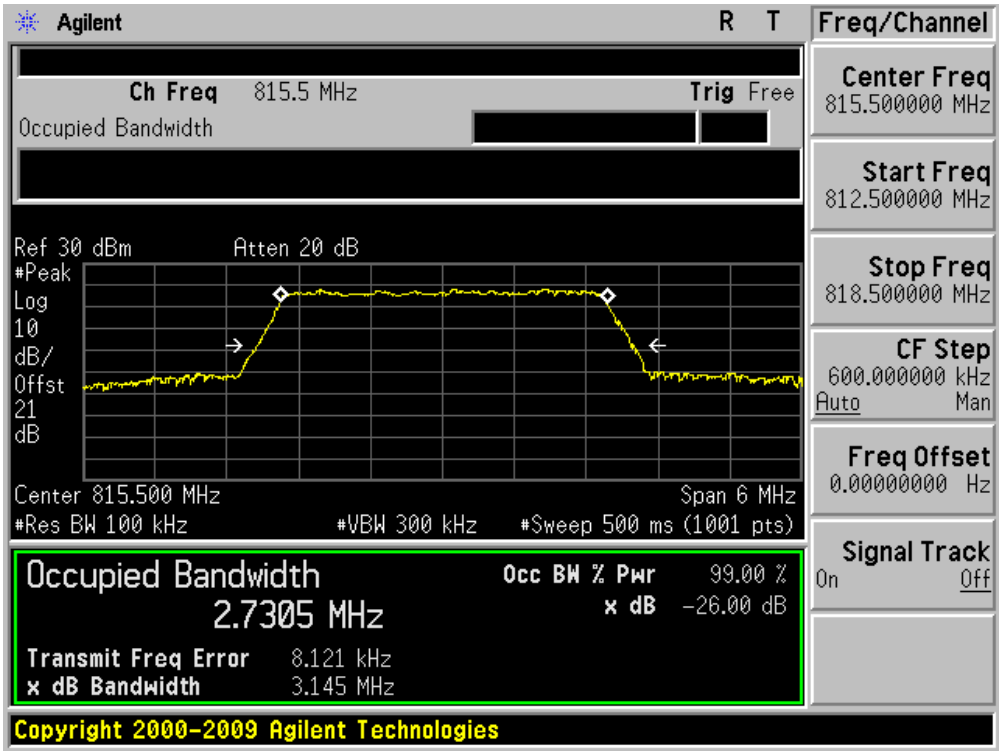


Figure Channel 26740 15RB0 (831.50MHz)

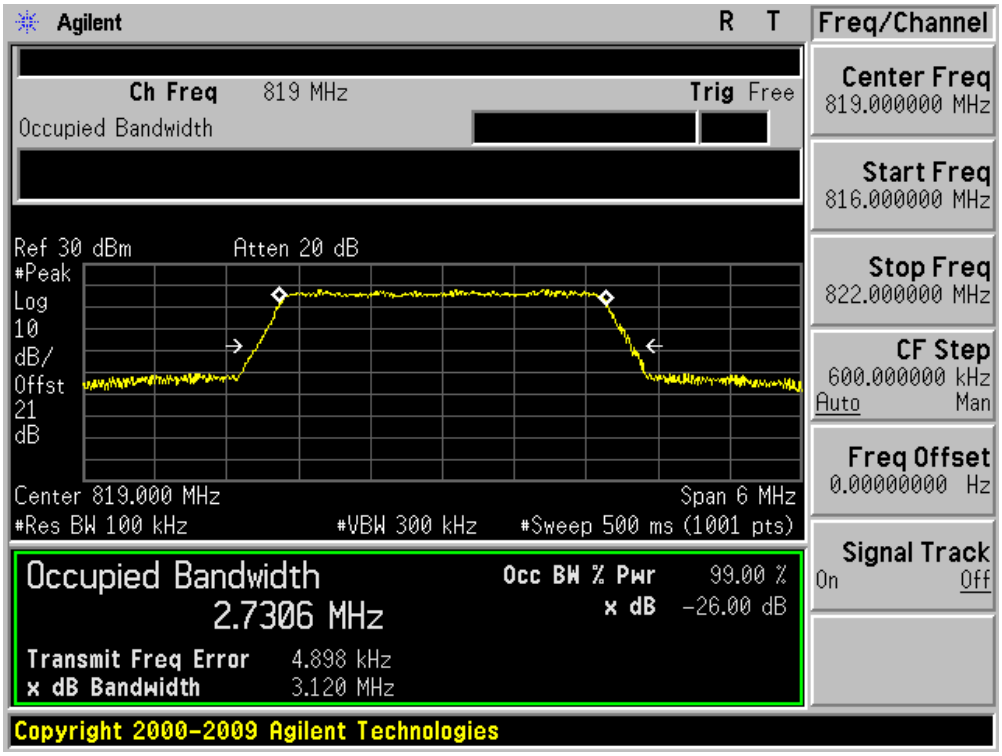
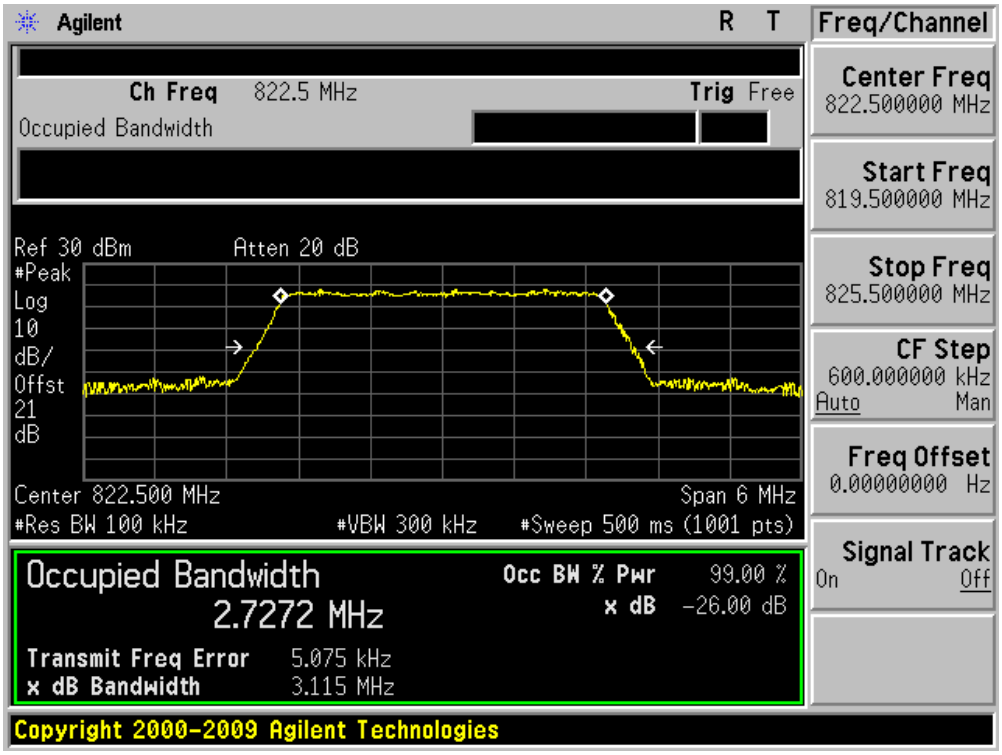


Figure Channel 26775 15RB0 (847.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26705	815.50	2750.40	3181.00
26740	819.00	2740.70	3166.00
26775	822.50	2741.00	3169.00

Figure Channel 26705 15RB0 (815.50MHz)

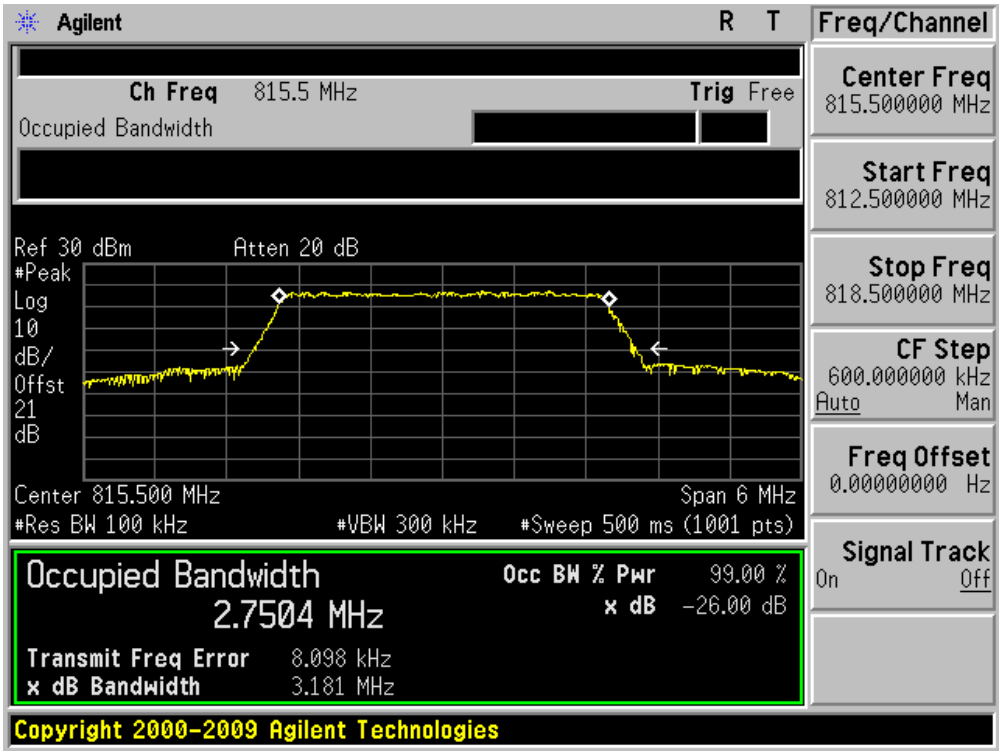


Figure Channel 26740 15RB0 (831.50MHz)

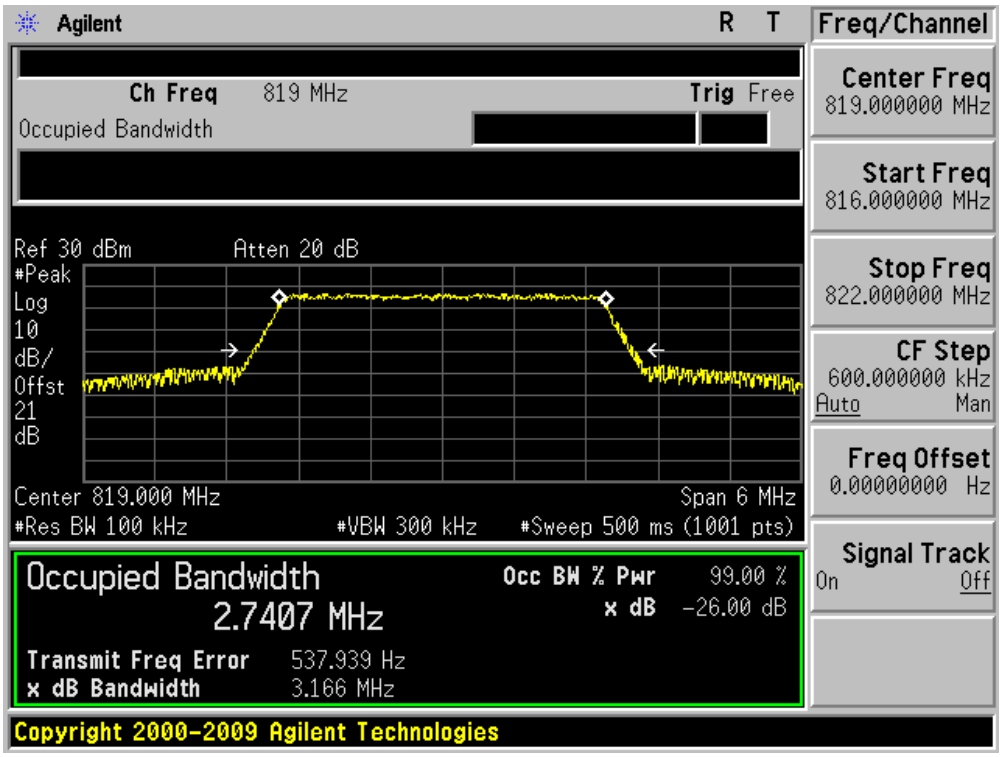
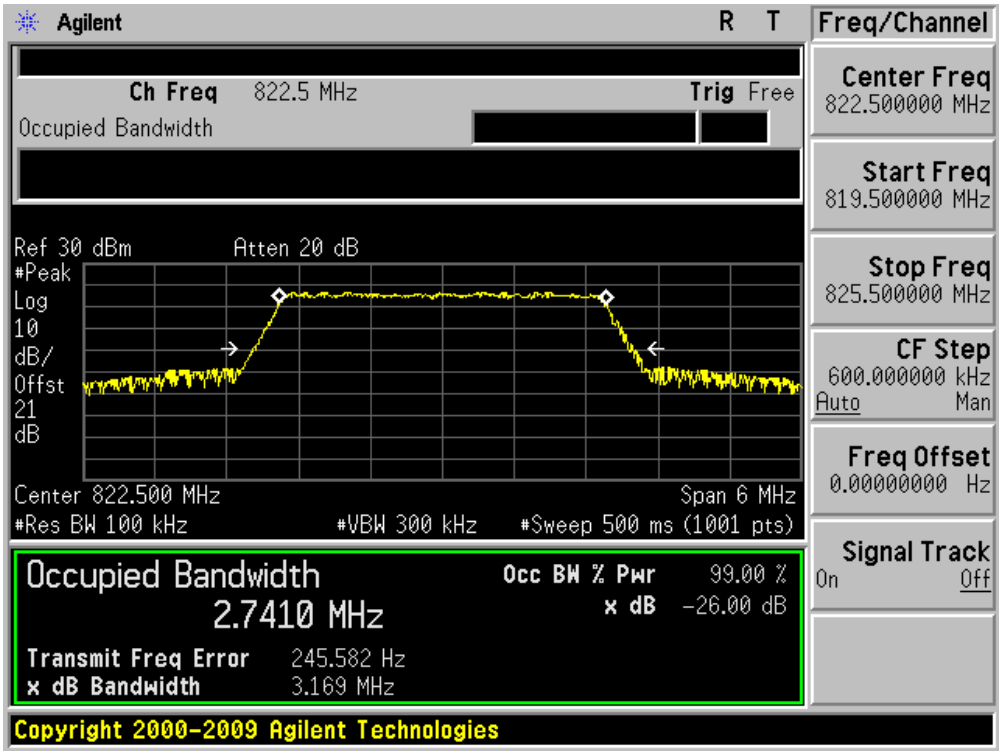


Figure Channel 26775 15RB0 (847.50MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26(1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26697	814.70	1092.20	1299.00
26740	819.00	1091.80	1299.00
26783	823.30	1090.60	1293.00

Figure Channel 26697 7RB0 (814.70MHz)

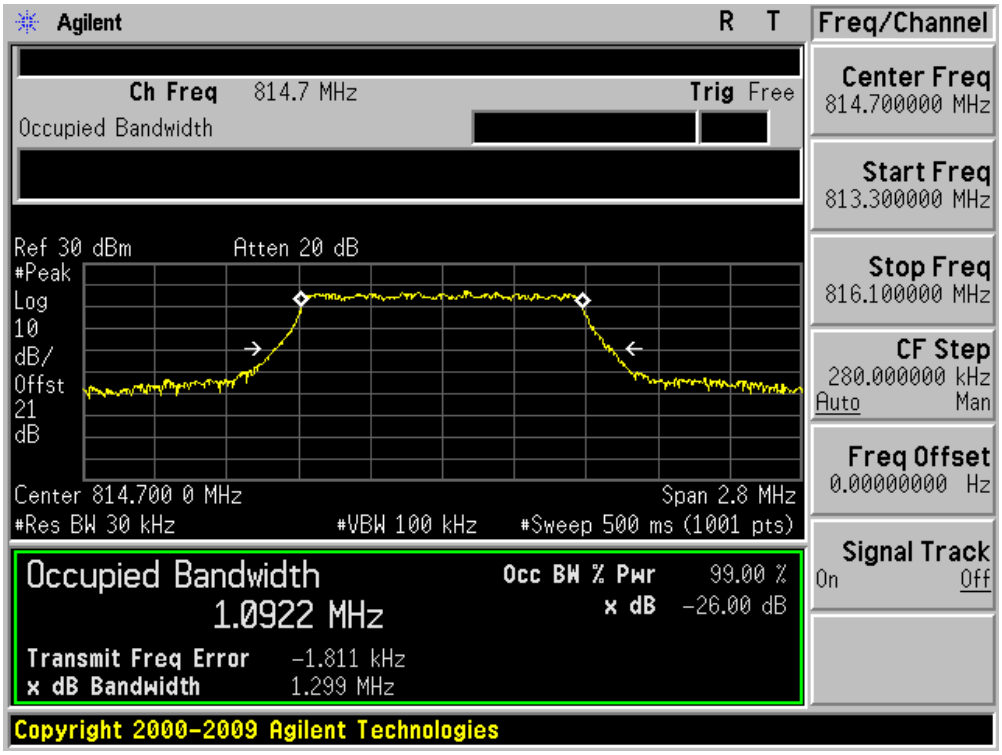


Figure Channel 26740 7RB0 (819.00MHz)

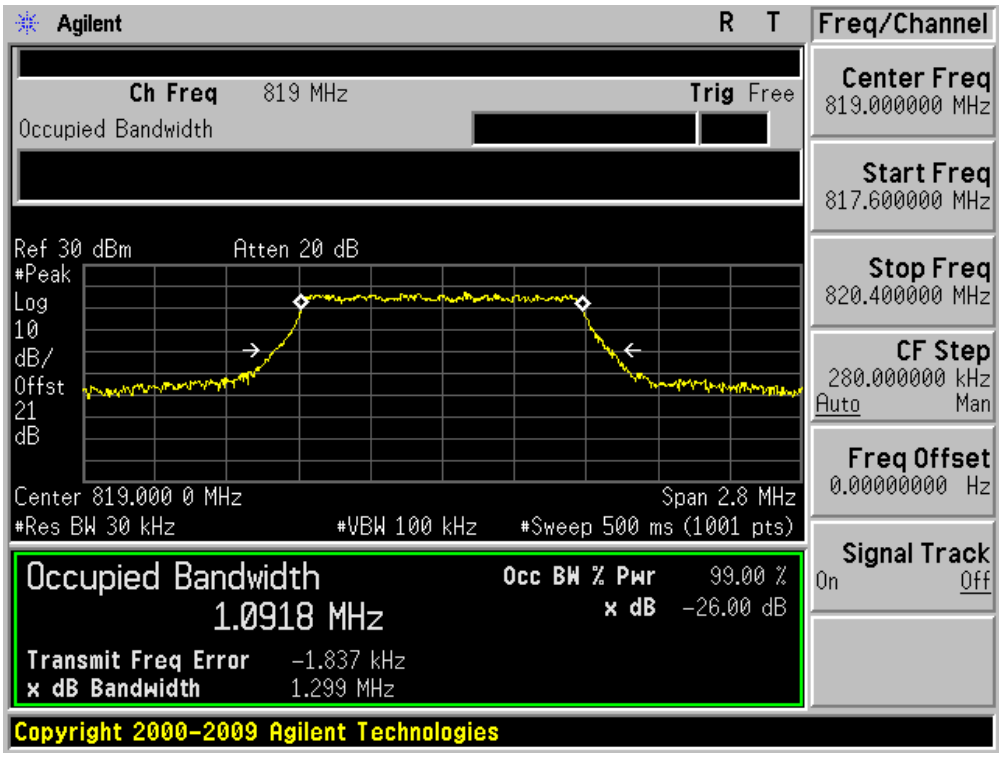
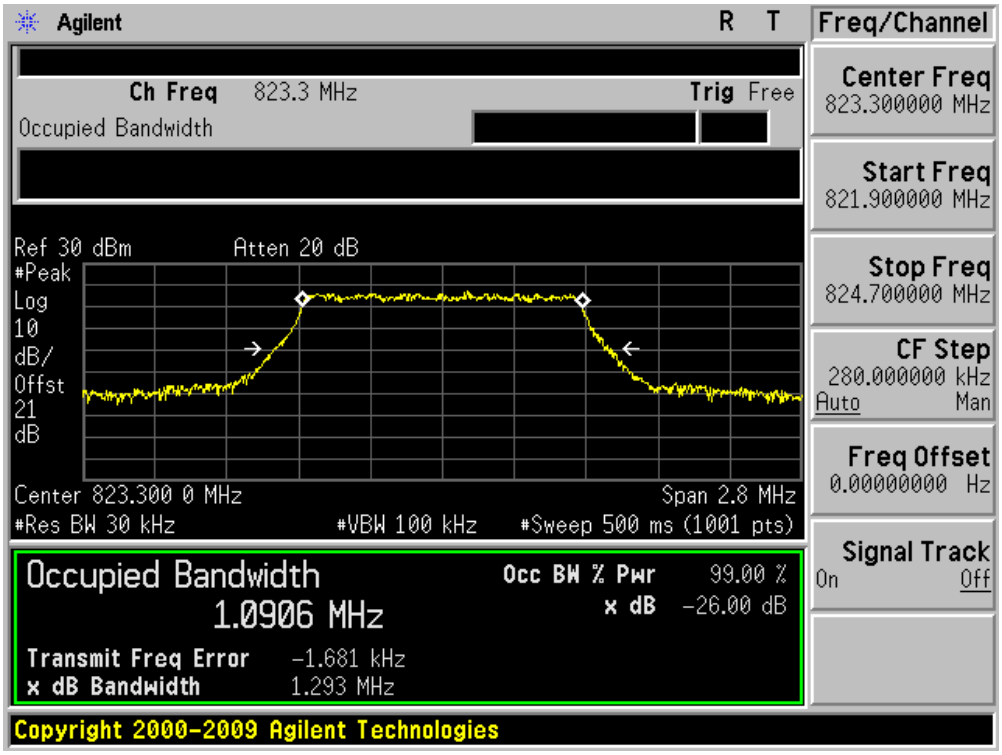


Figure Channel 26783 7RB0 (823.3MHz)



Product	Wireless Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	-26dB Occupied Bandwidth (kHz)
26697	814.70	1101.90	1308.00
26740	819.00	1100.50	1315.00
26783	823.30	1099.10	1311.00

Figure Channel 26697 7RB0 (814.70MHz)

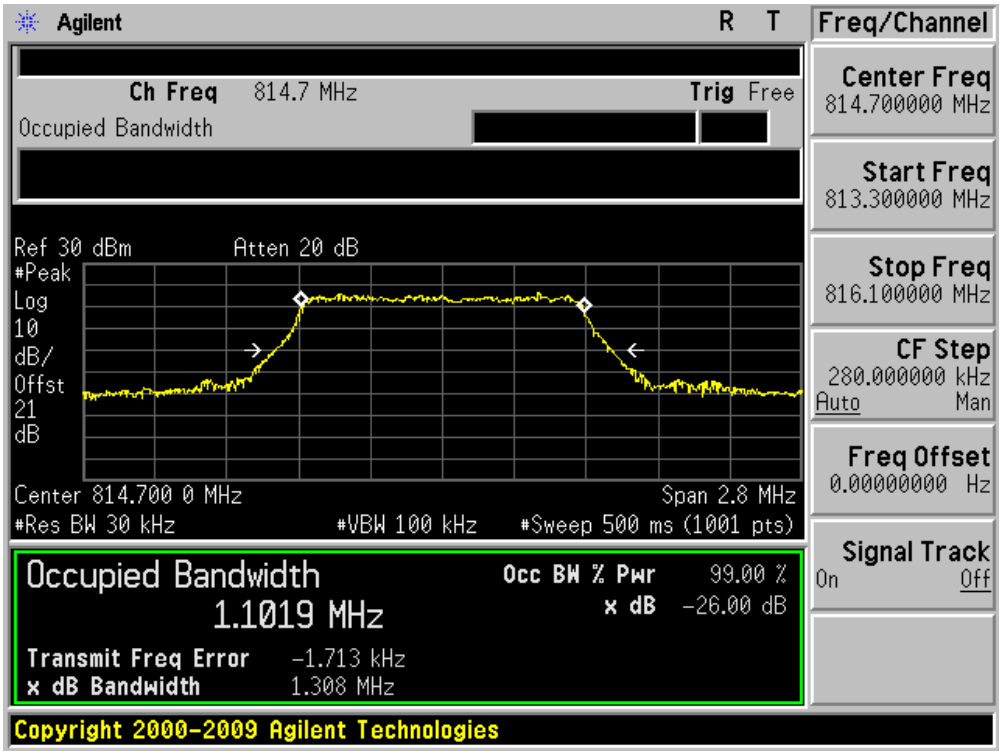


Figure Channel 26740 7RB0 (819.00MHz)

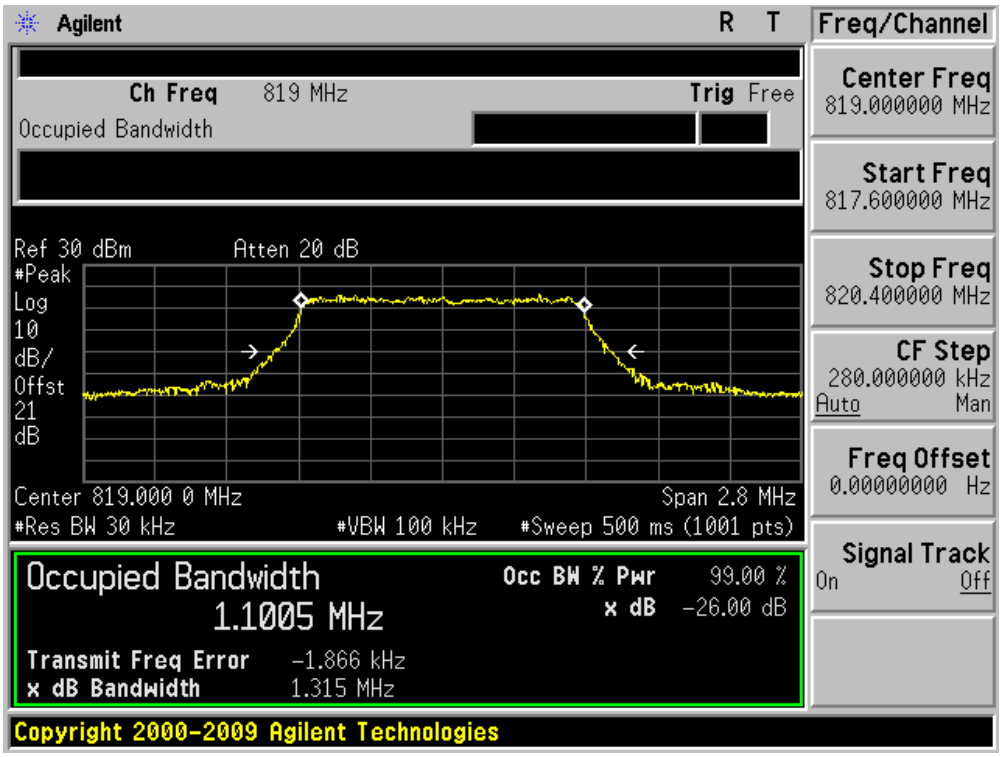
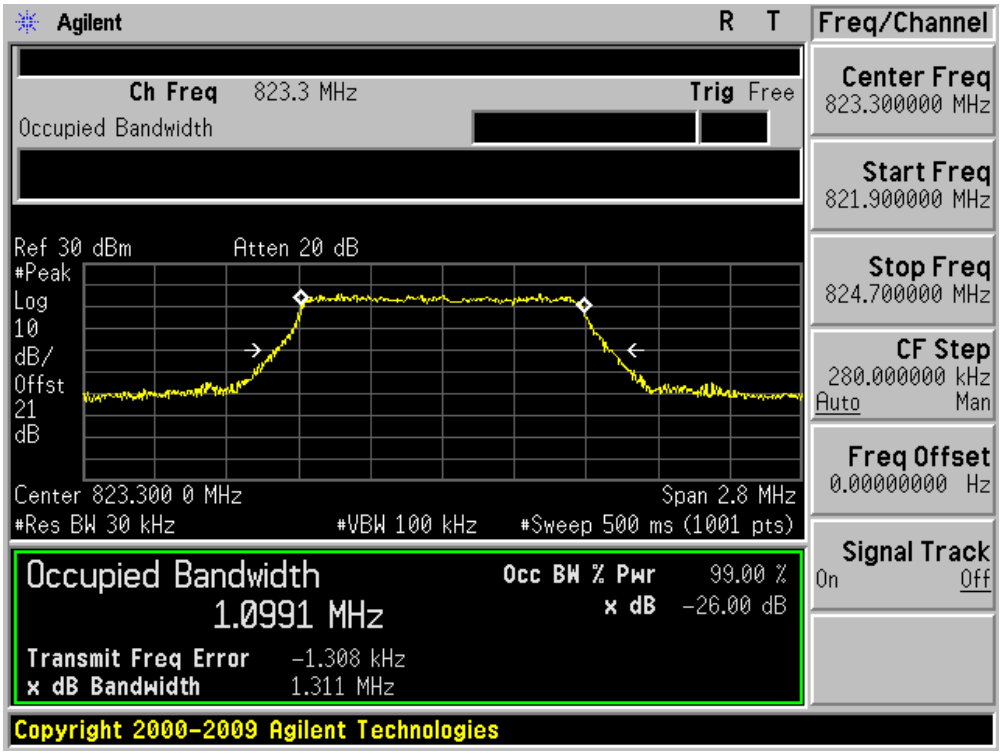


Figure Channel 26783 7RB0 (823.30MHz)



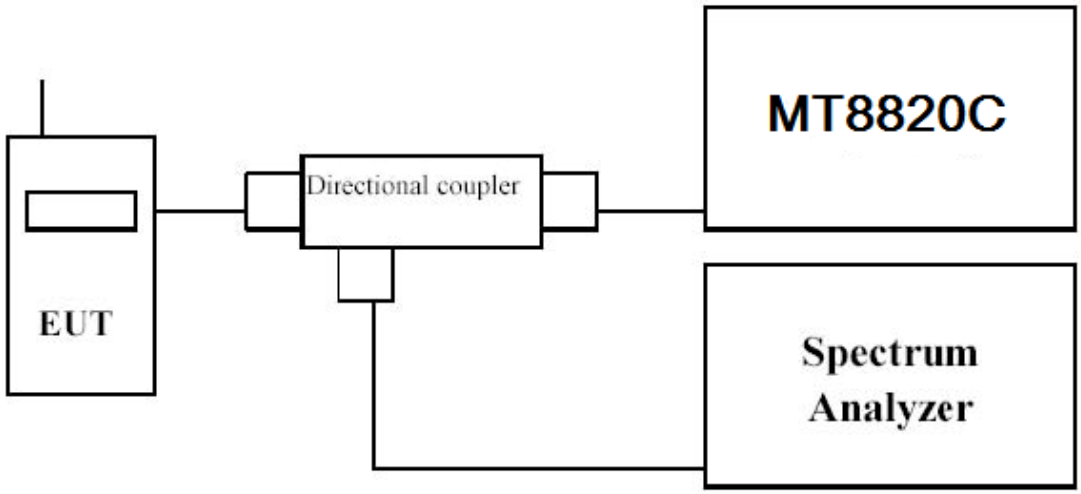
6. Conducted Band Edge

6.1. Test Equipment

Spurious Emission At Antenna Terminals (+/- 1MHz) / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

6.2. Test Setup



6.3. Test Procedure

1. The EUT was connected to spectrum analyzer and System Simulator via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.

6.4. Uncertainty

The measurement uncertainty is defined as ± 1.2 dB.

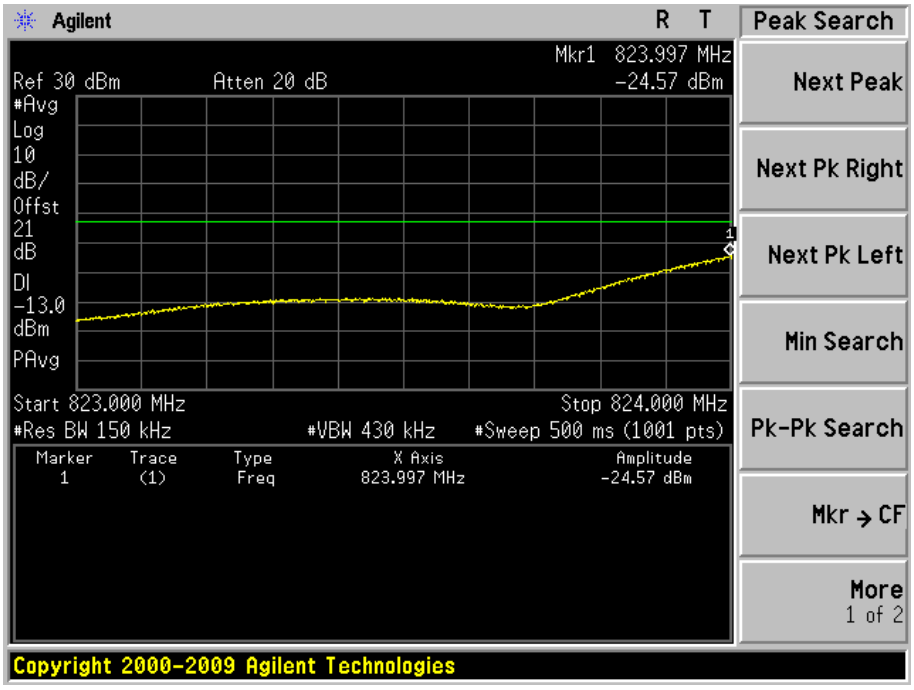
6.5. Test Result

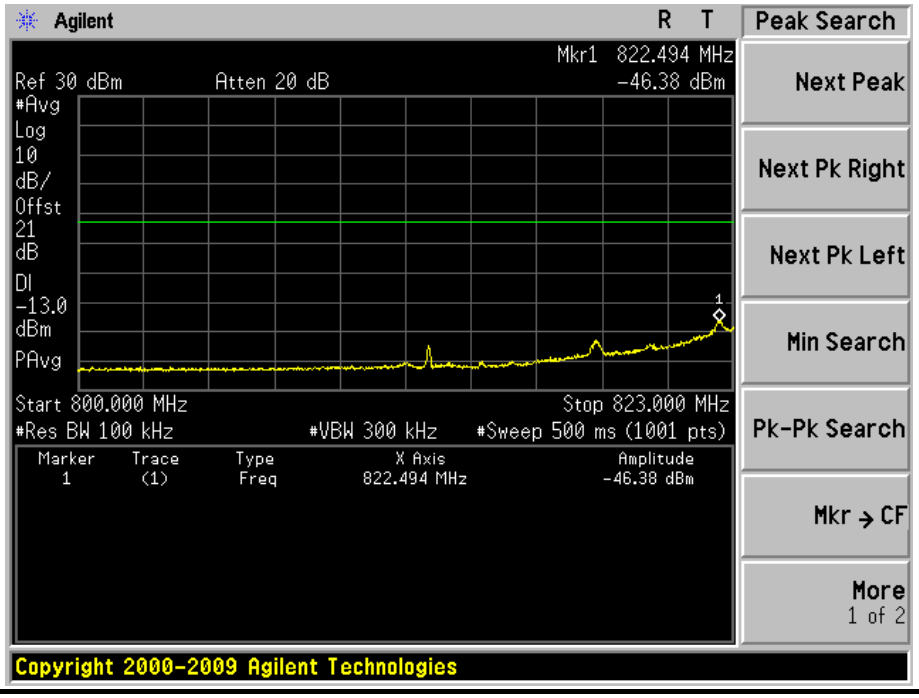
LTE Band 26 For Part 22H

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (15M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

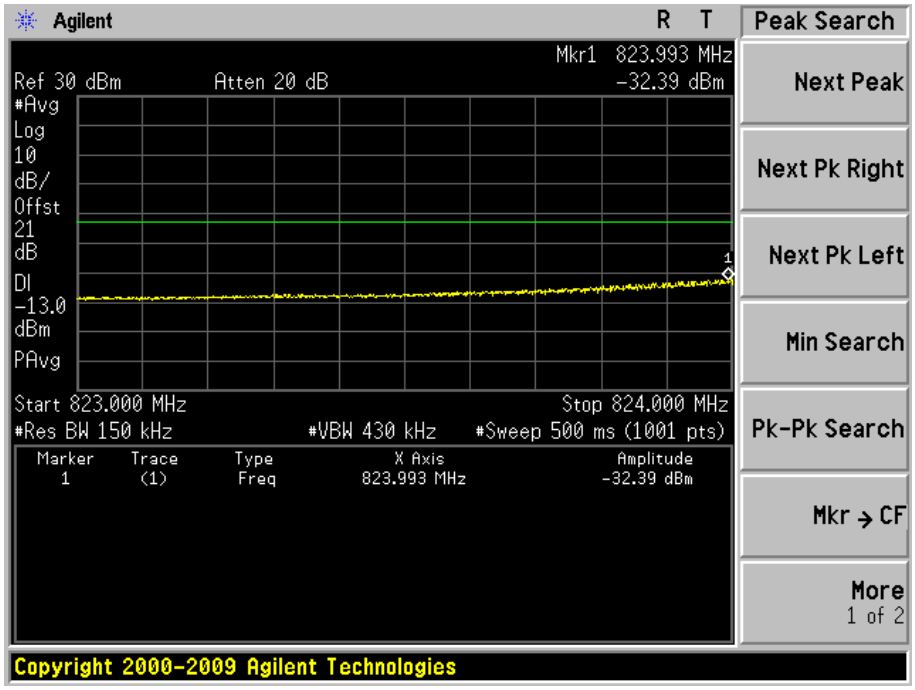
Figure Channel 26865 (831.50MHz)

1RB0





75RB0


Agilent
R T
Peak Search
Mkr1 823.993 MHz
Ref 30 dBm
Atten 20 dB
-32.39 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 150 kHz
#VBW 430 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.993 MHz -32.39 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

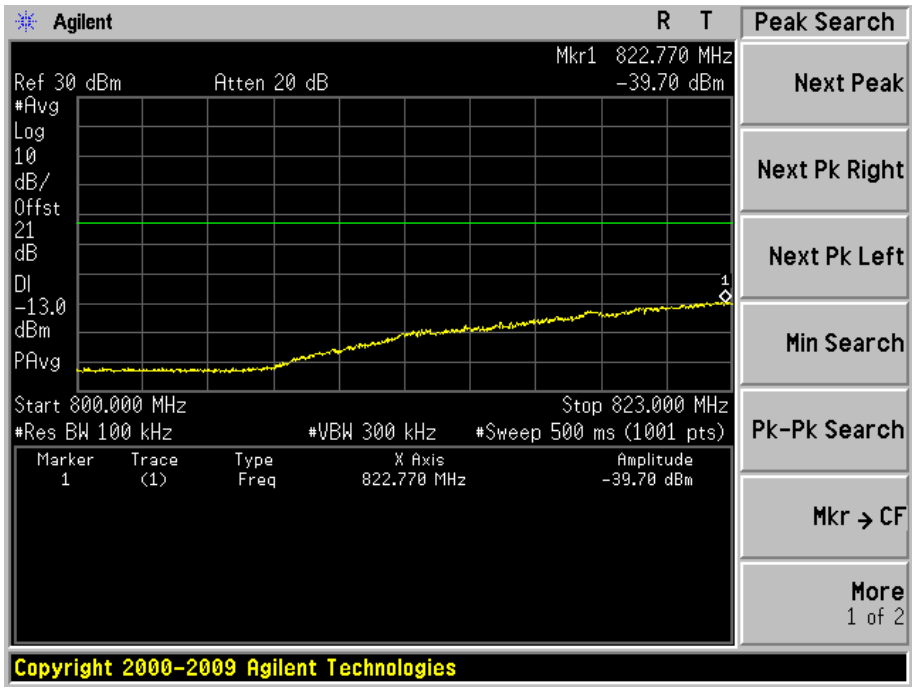
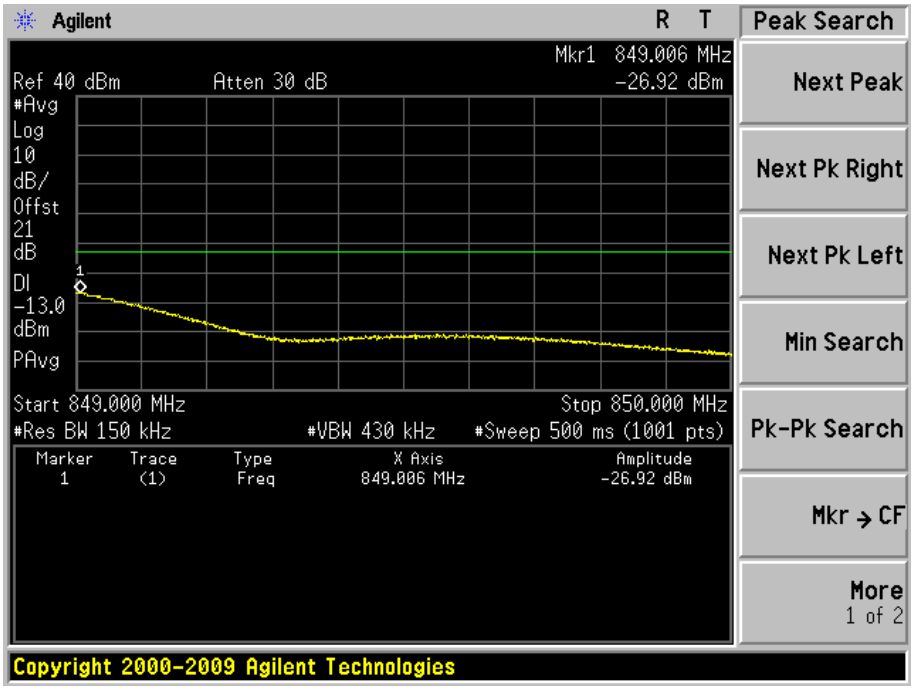
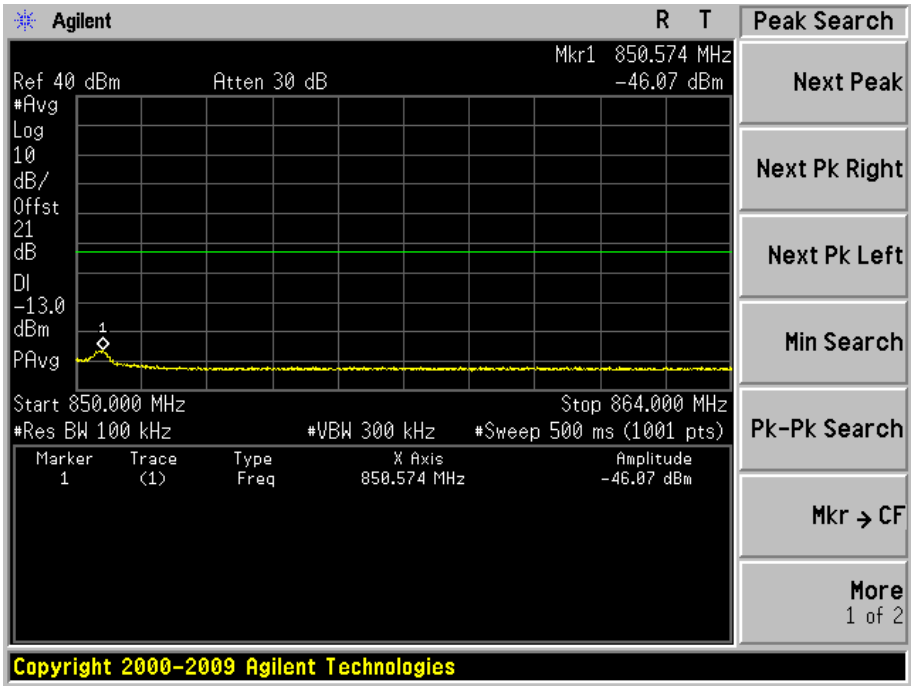

Agilent
R T
Peak Search
Mkr1 822.770 MHz
Ref 30 dBm
Atten 20 dB
-39.70 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 822.770 MHz -39.70 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

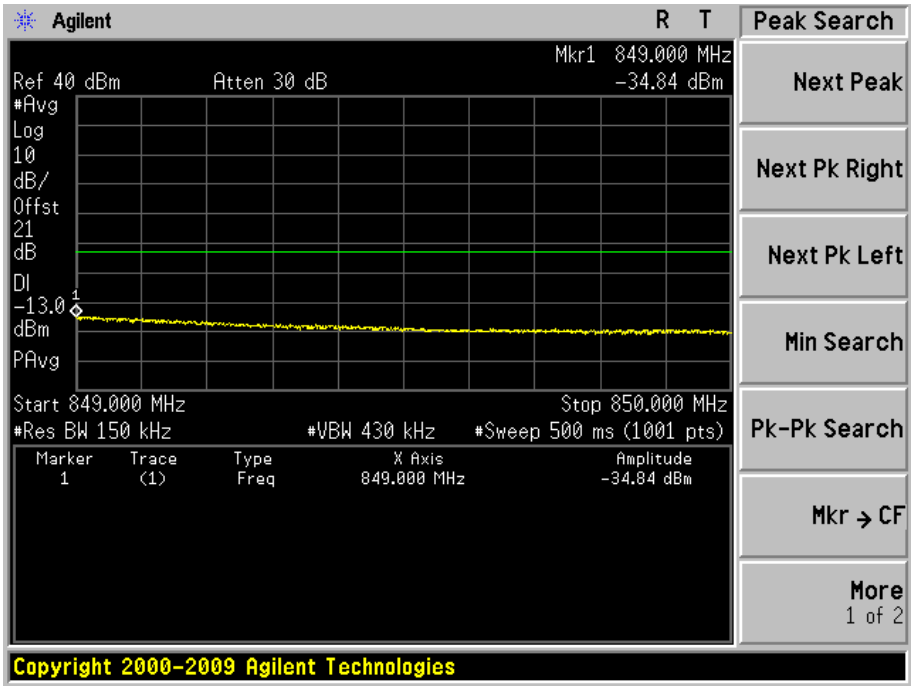
Figure Channel 26965 (841.5MHz)

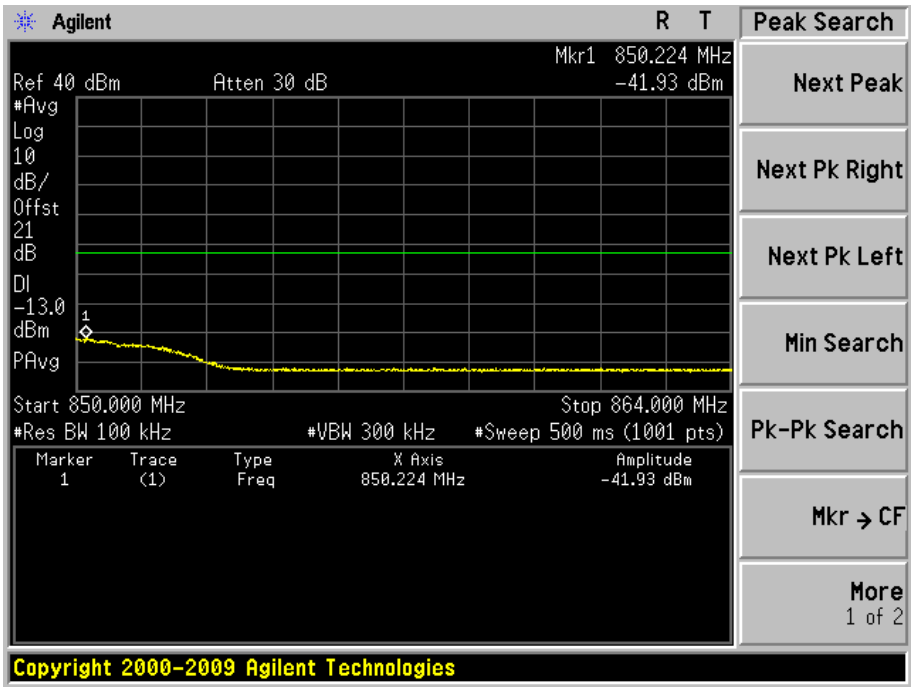
1RB74





75RB0

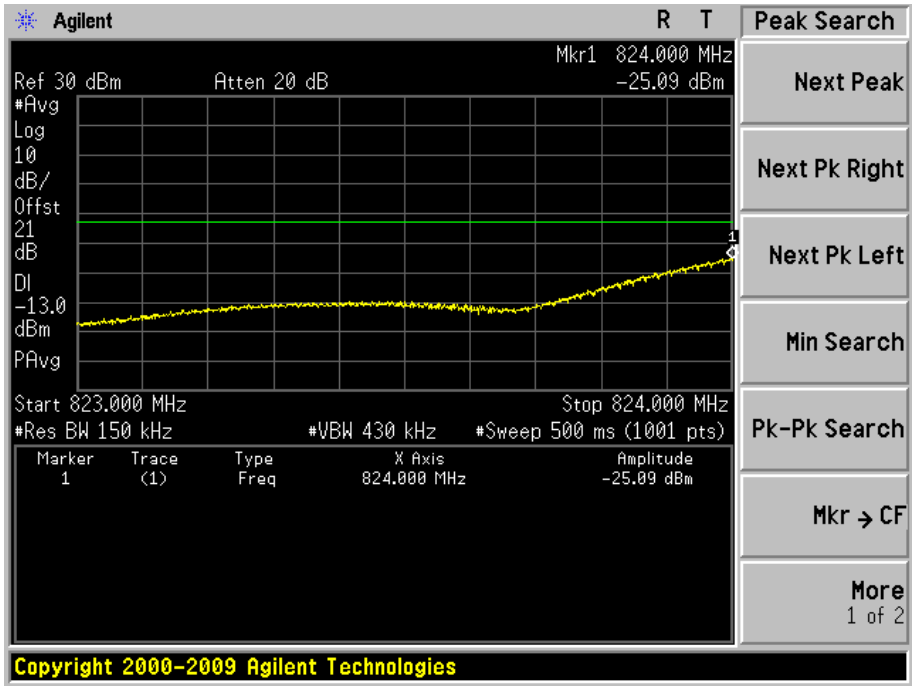

Agilent
R T
Peak Search
Mkr1 849.000 MHz
Ref 40 dBm
Atten 30 dB
-34.84 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 849.000 MHz
Stop 850.000 MHz
#Res BW 150 kHz
#VBW 430 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.000 MHz -34.84 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

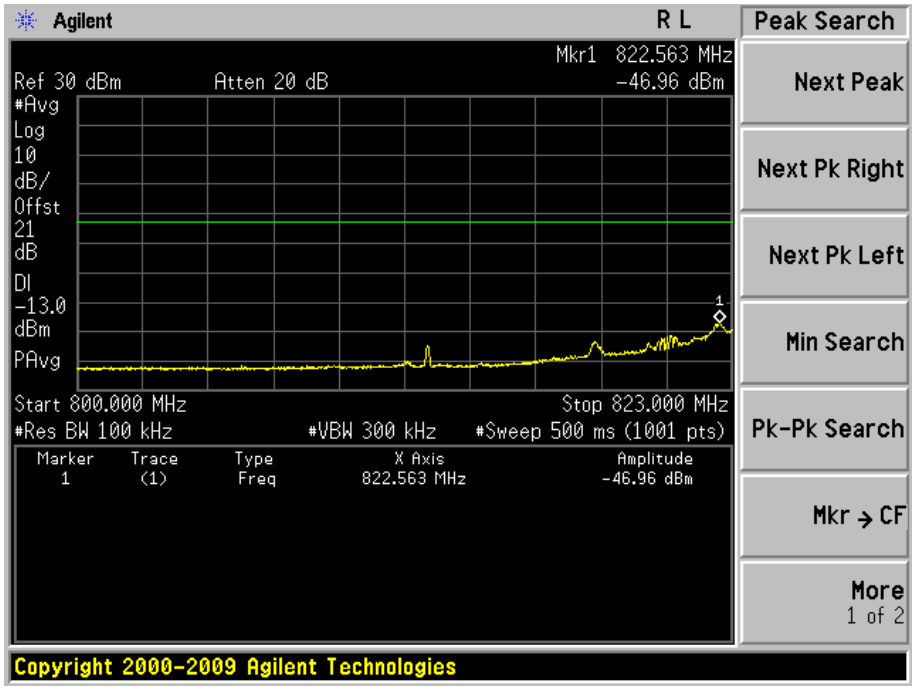

Agilent
R T
Peak Search
Mkr1 850.224 MHz
Ref 40 dBm
Atten 30 dB
-41.93 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 850.000 MHz
Stop 864.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.224 MHz -41.93 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (15M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

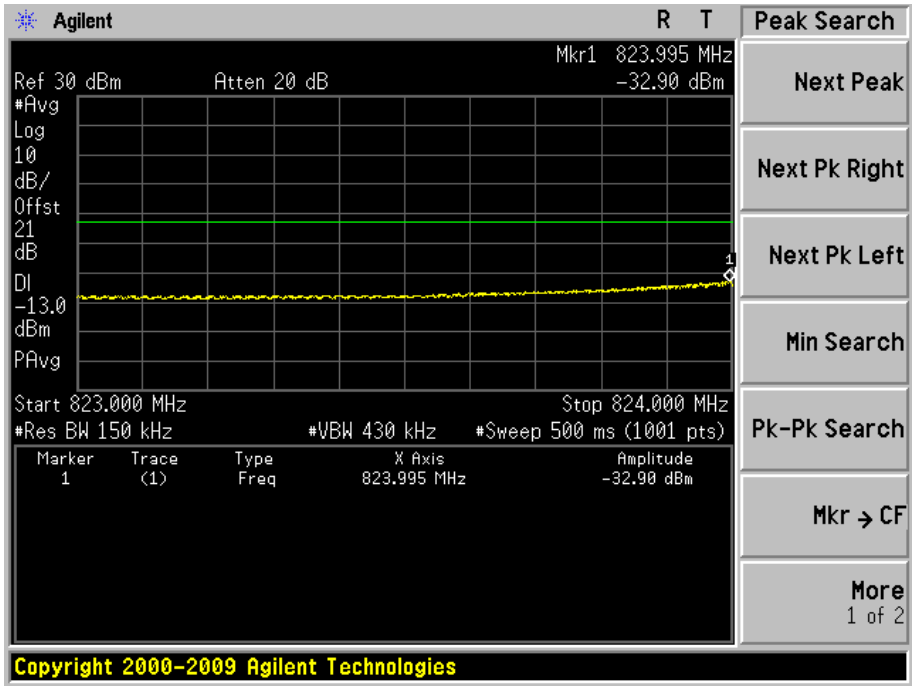
Figure Channel 26865 (831.50MHz)

1RB0





75RB0


Agilent
R T
Peak Search
Mkr1 823.995 MHz
Ref 30 dBm
Atten 20 dB
-32.90 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 150 kHz
#VBW 430 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.995 MHz -32.90 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

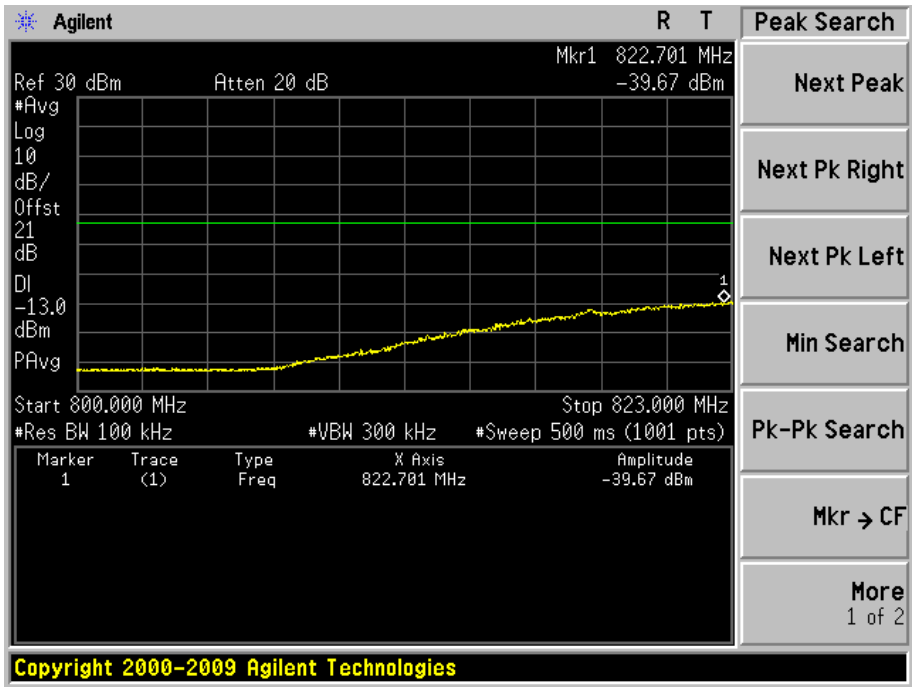
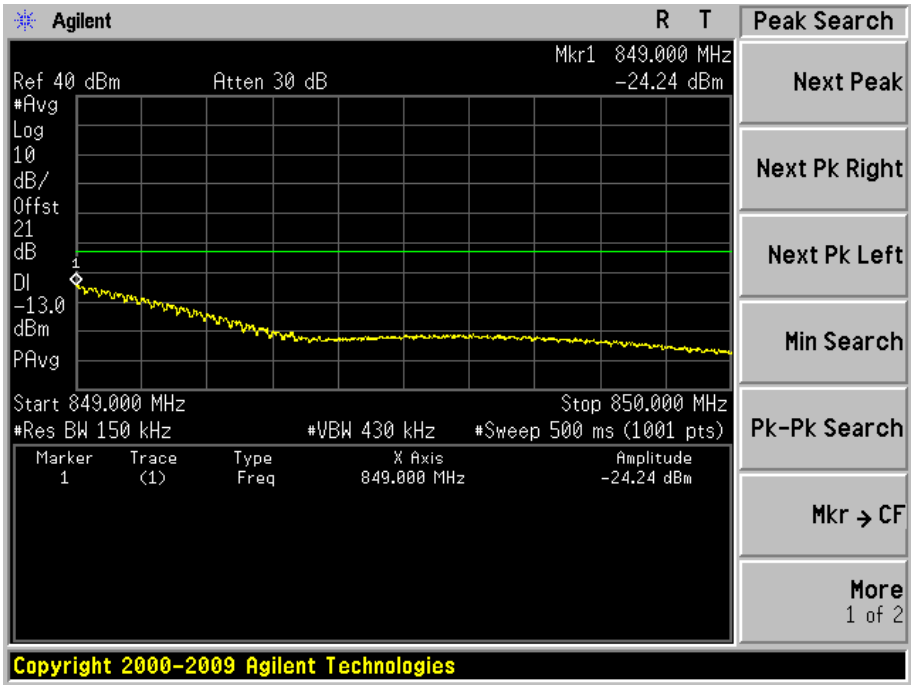
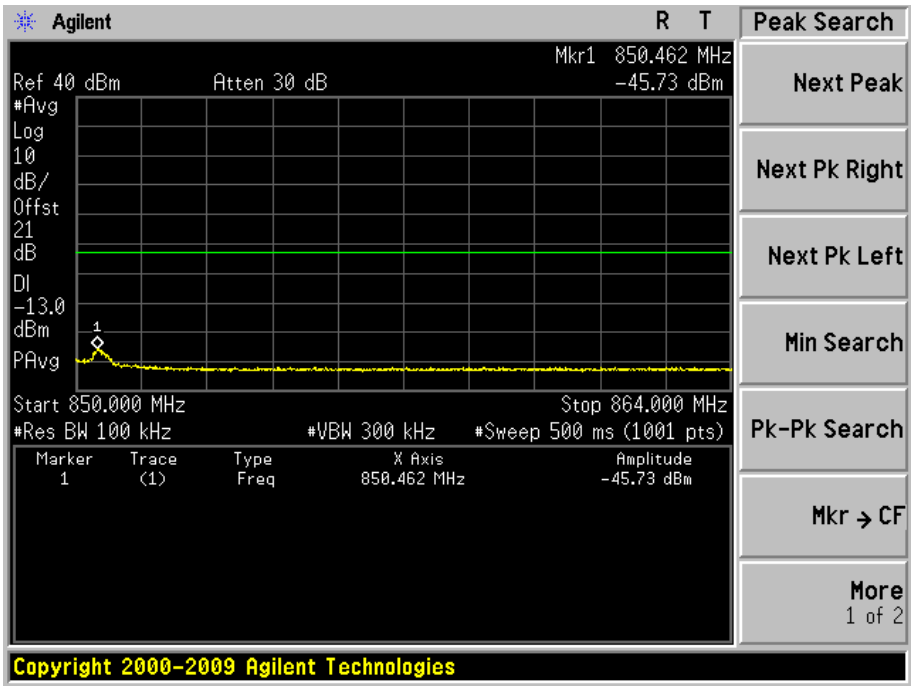

Agilent
R T
Peak Search
Mkr1 822.701 MHz
Ref 30 dBm
Atten 20 dB
-39.67 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 822.701 MHz -39.67 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

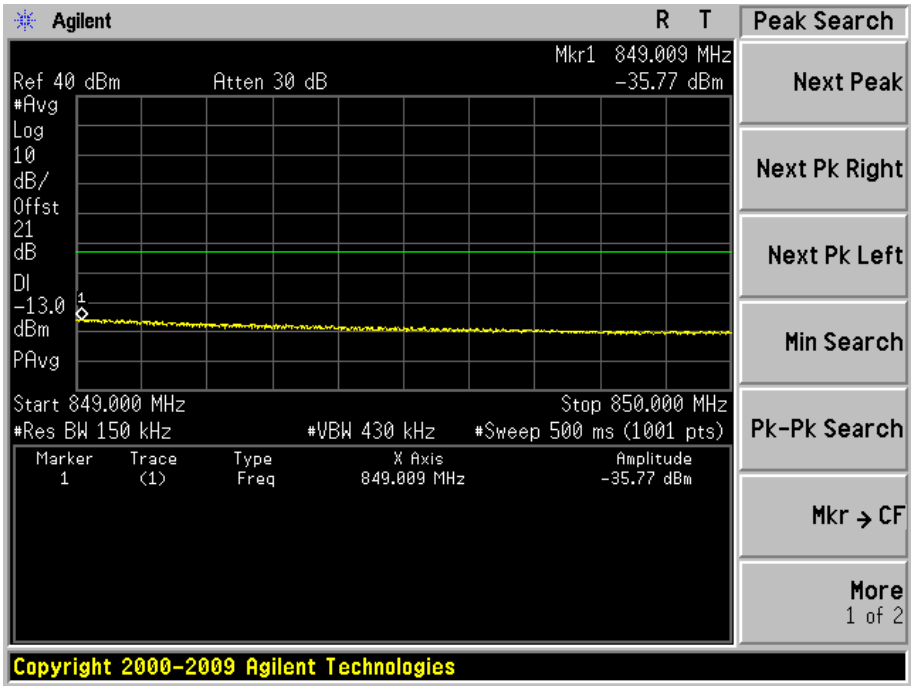
Figure Channel 26965 (841.50MHz)

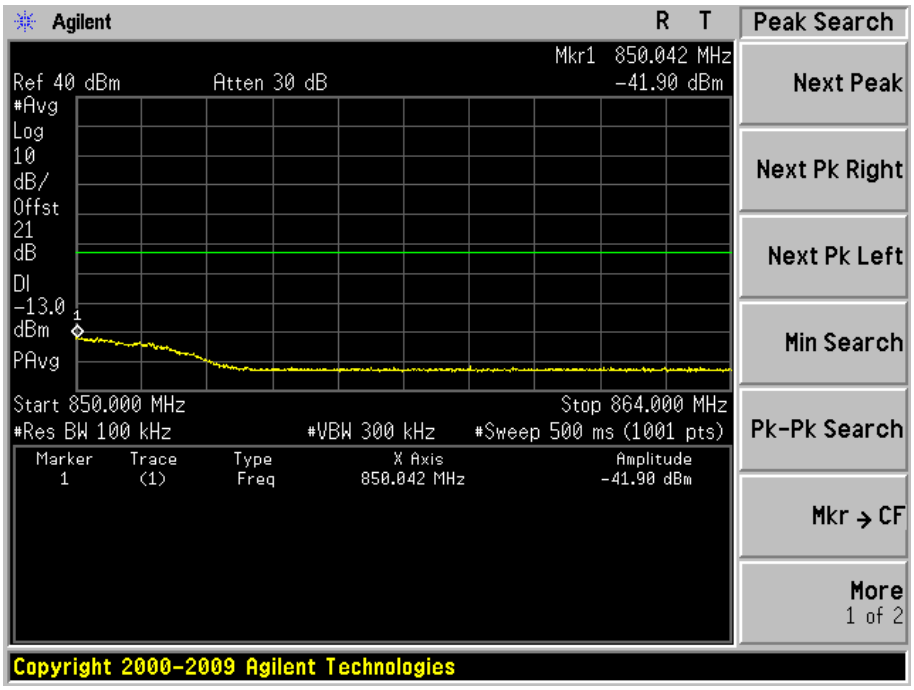
1RB74





75RB0


Agilent
R T
Peak Search
Mkr1 849.009 MHz
Ref 40 dBm
Atten 30 dB
-35.77 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 849.000 MHz
Stop 850.000 MHz
#Res BW 150 kHz
#VBW 430 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.009 MHz -35.77 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies


Agilent
R T
Peak Search
Mkr1 850.042 MHz
Ref 40 dBm
Atten 30 dB
-41.90 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 850.000 MHz
Stop 864.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.042 MHz -41.90 dBm
Mkr → CF
More
1 of 2
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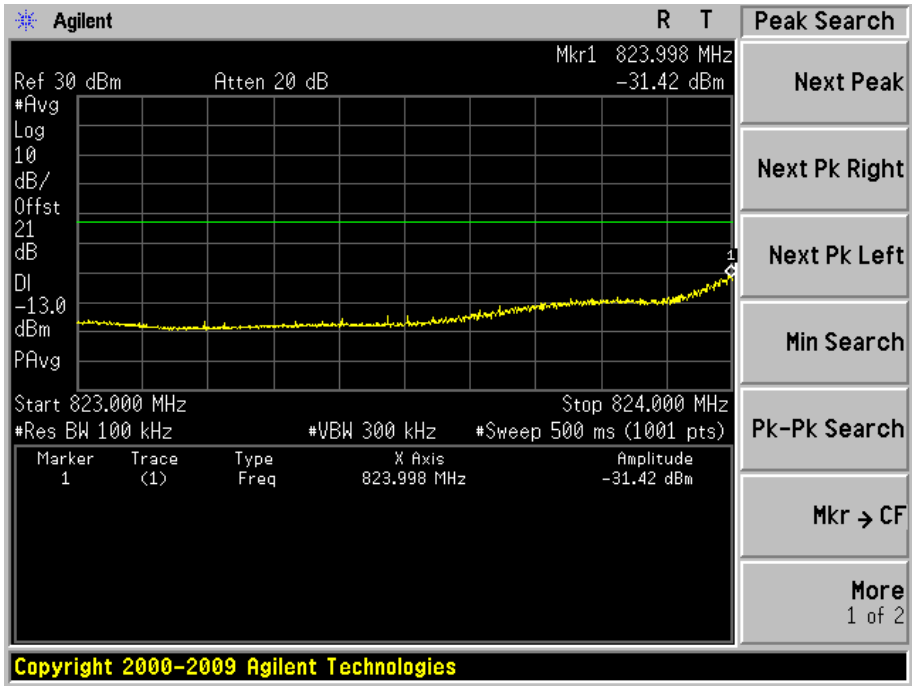
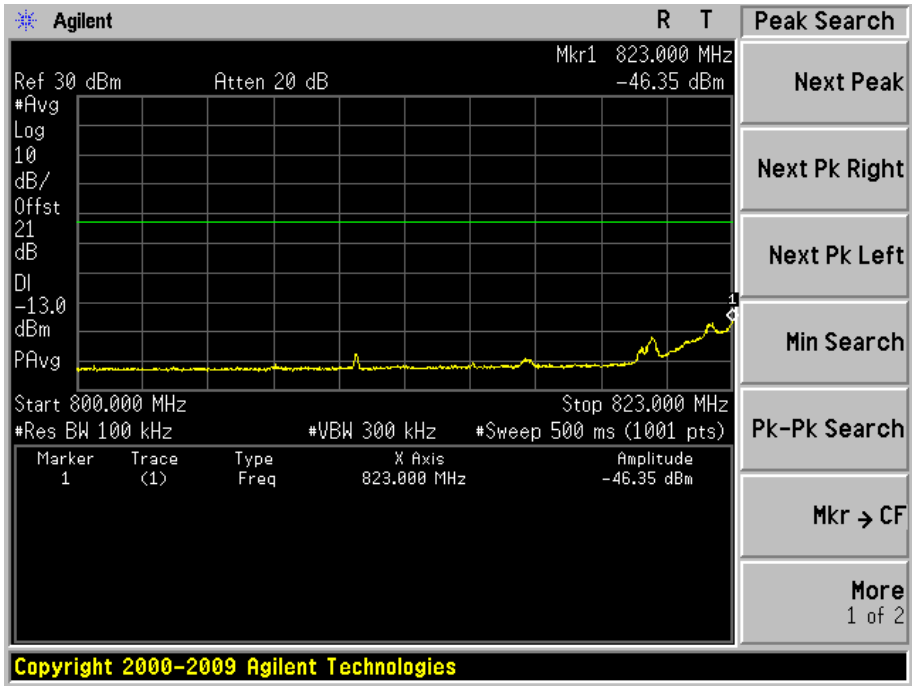
Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

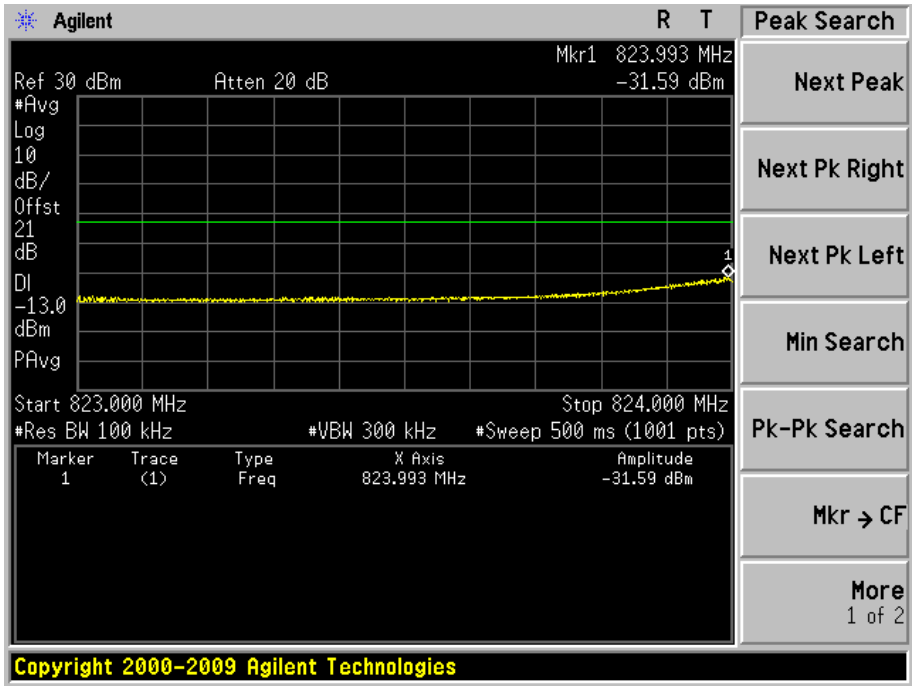
Figure Channel 26840 (829.00MHz)

1RB0





50RB0


Agilent
R T
Peak Search
Mkr1 823.993 MHz
Ref 30 dBm
Atten 20 dB
-31.59 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.993 MHz -31.59 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

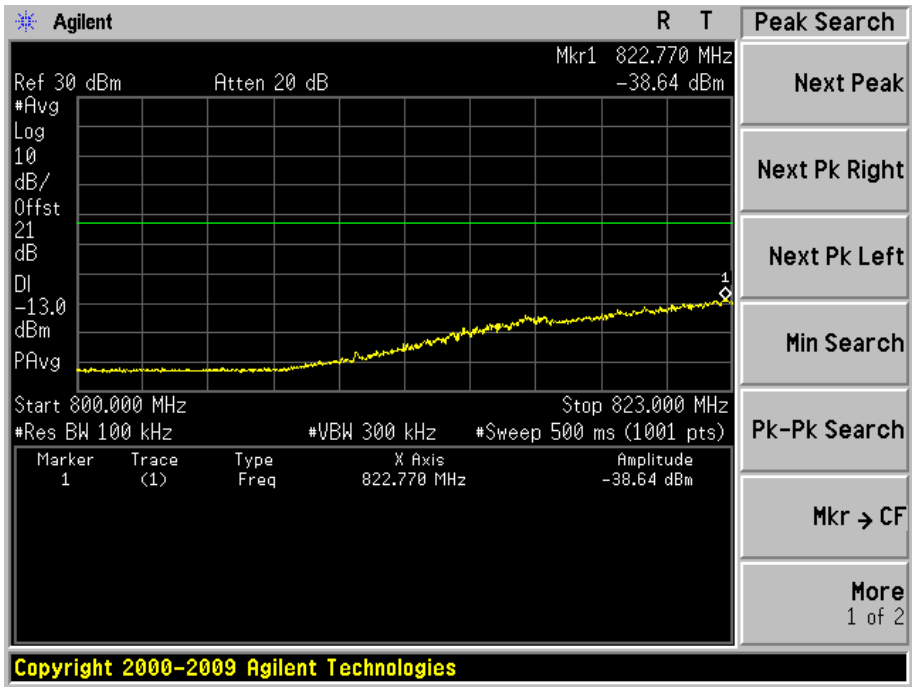
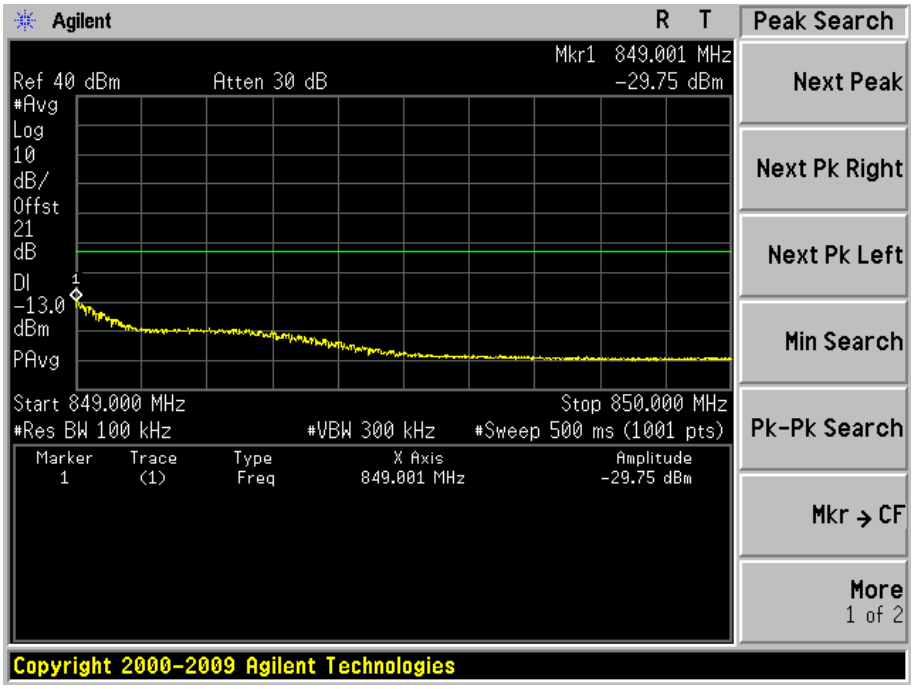
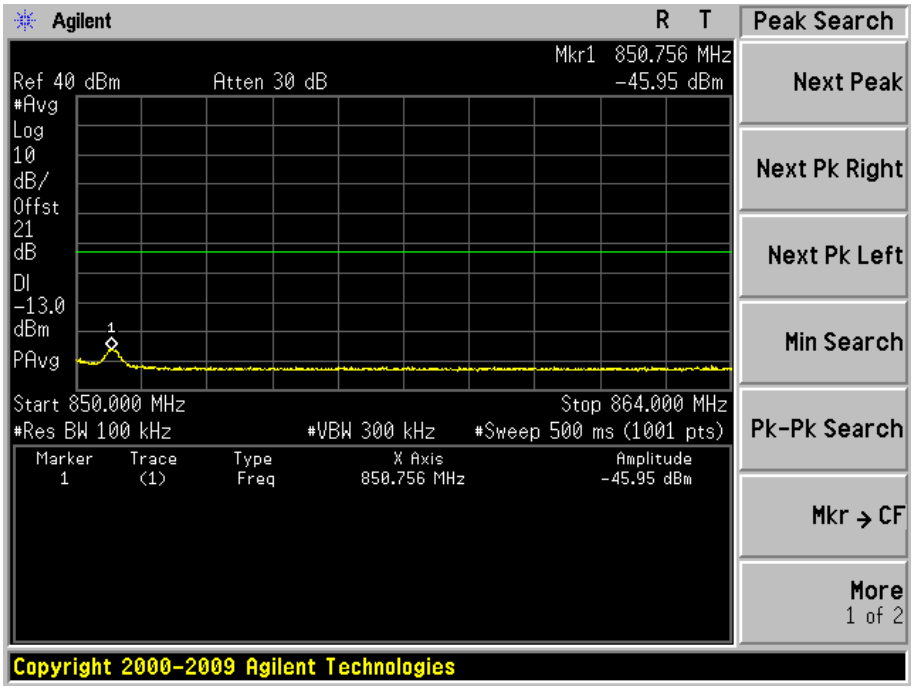

Agilent
R T
Peak Search
Mkr1 822.770 MHz
Ref 30 dBm
Atten 20 dB
-38.64 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 822.770 MHz -38.64 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

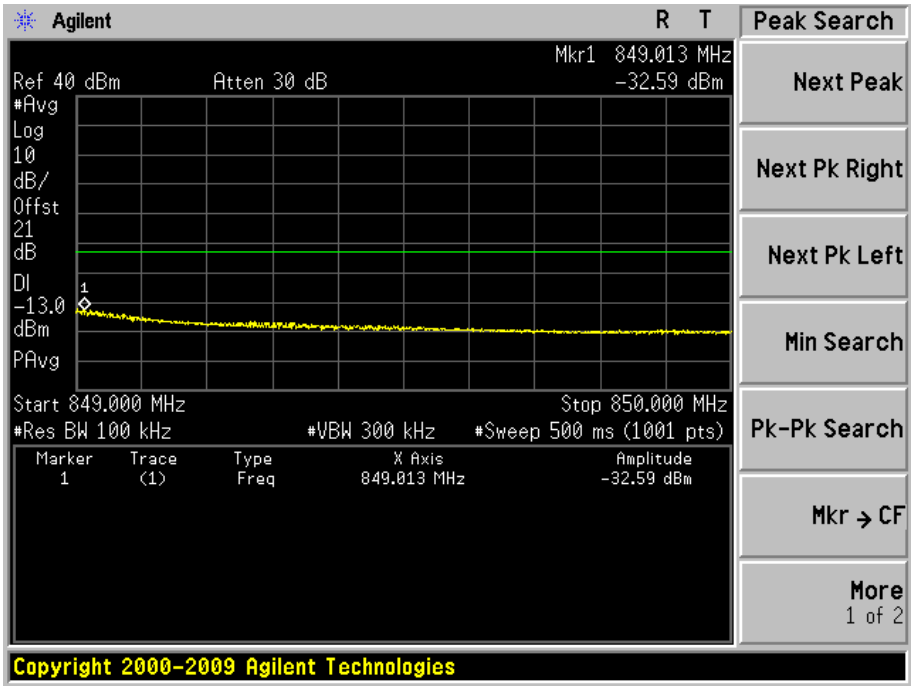
Figure Channel 26990 (844.00MHz)

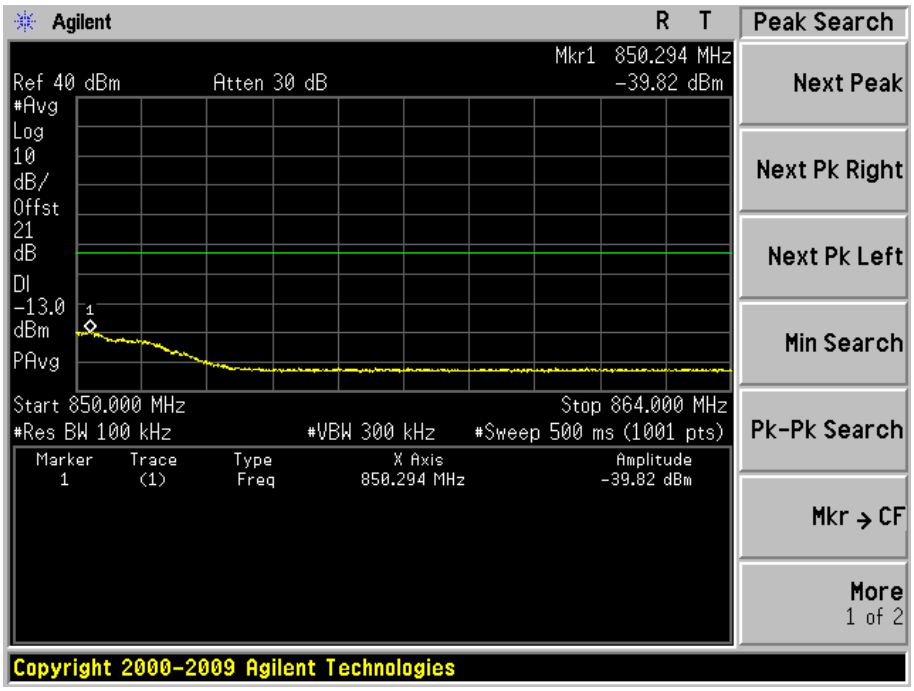
1RB49





50RB0

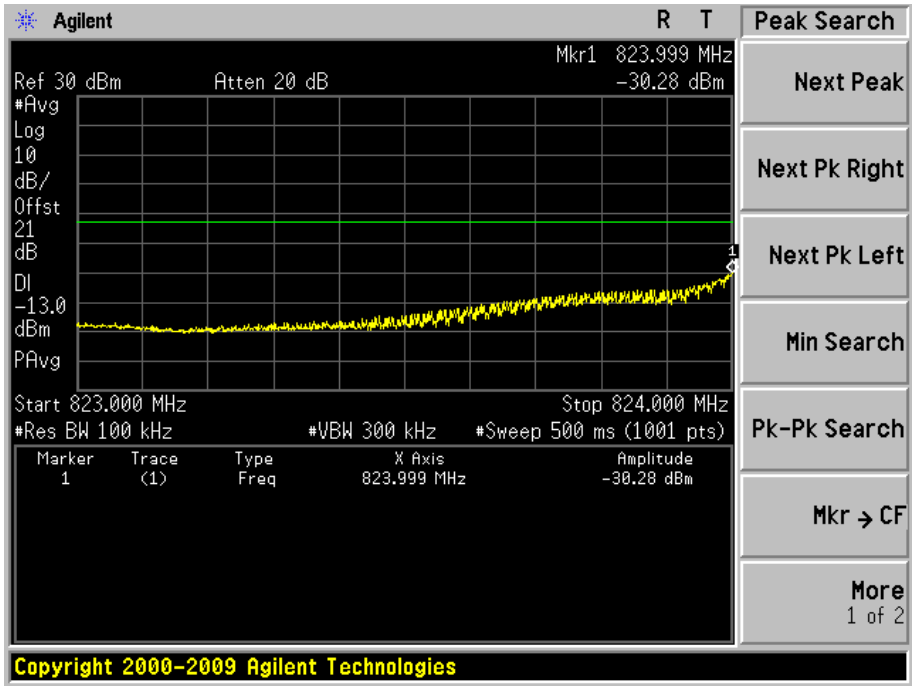

Agilent
R T
Peak Search
Mkr1 849.013 MHz
Ref 40 dBm
Atten 30 dB
-32.59 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 849.000 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.013 MHz -32.59 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

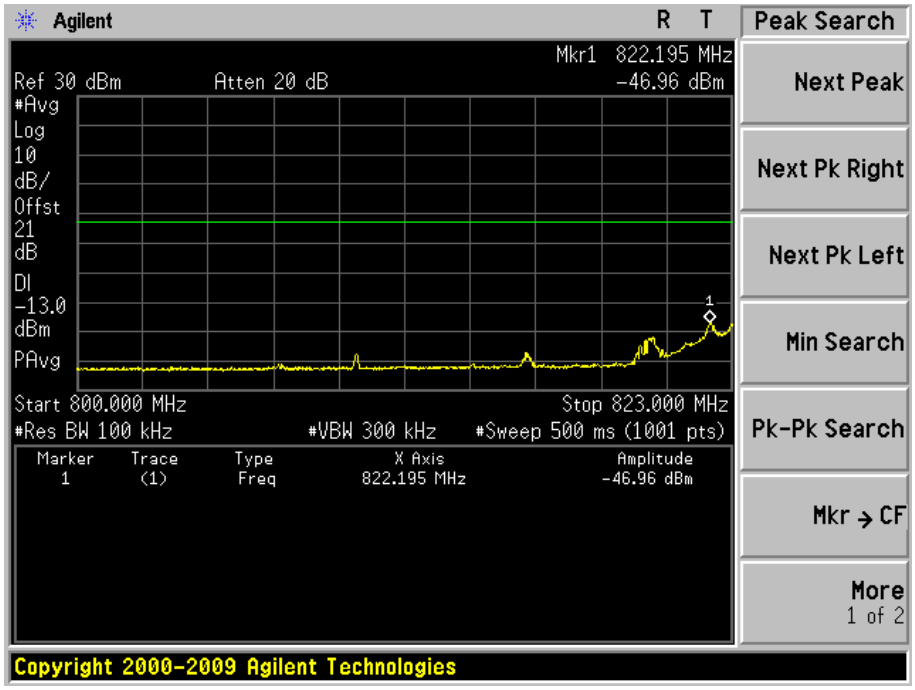

Agilent
R T
Peak Search
Mkr1 850.294 MHz
Ref 40 dBm
Atten 30 dB
-39.82 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 850.000 MHz
Stop 864.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.294 MHz -39.82 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

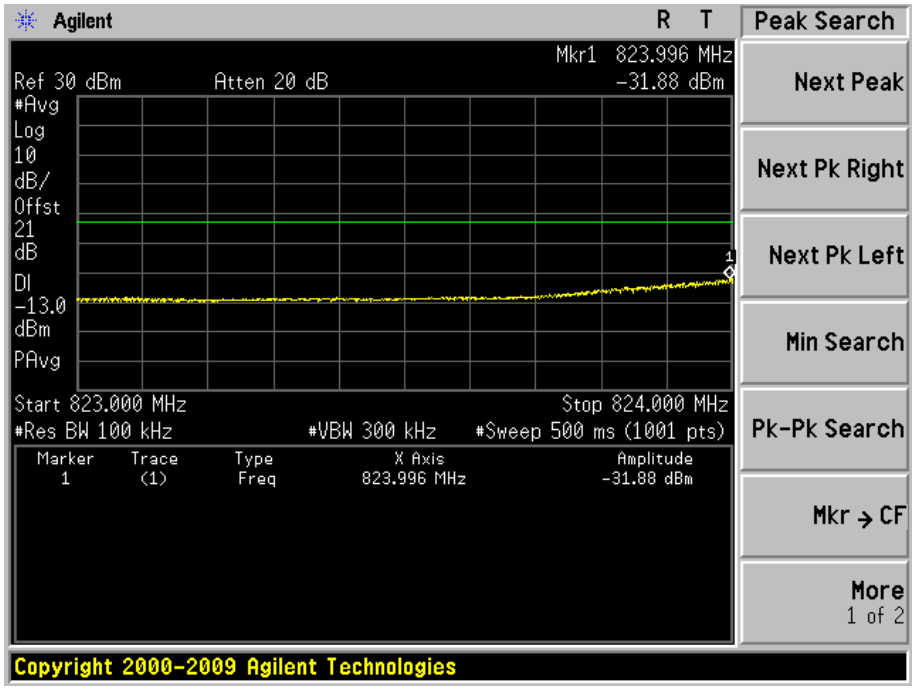
Figure Channel 26840 (829.00MHz)

1RB0





50RB0


Agilent
R T
Peak Search
Mkr1 823.996 MHz
Ref 30 dBm
Atten 20 dB
-31.88 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.996 MHz -31.88 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

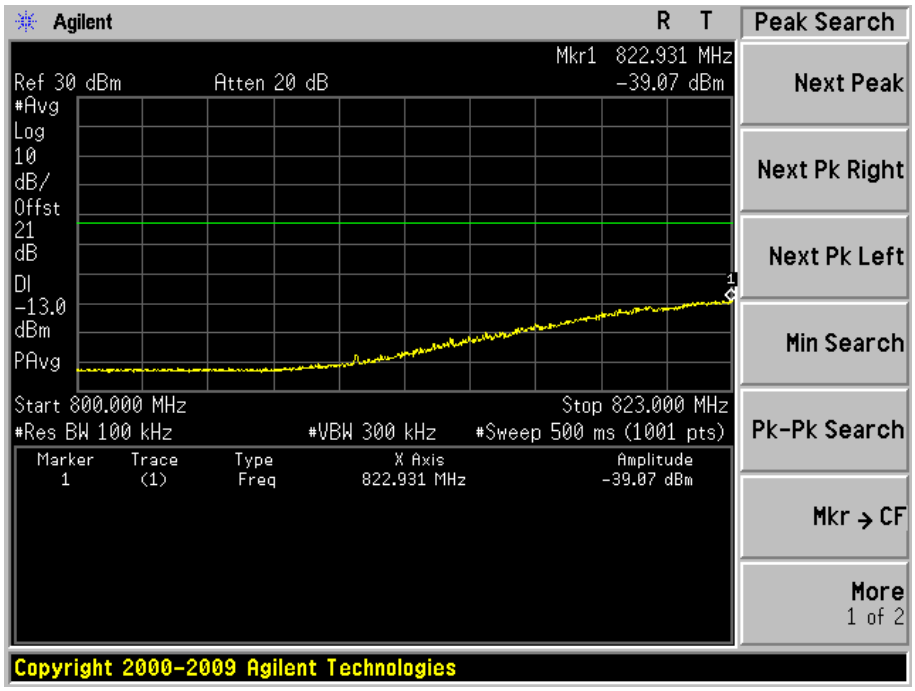
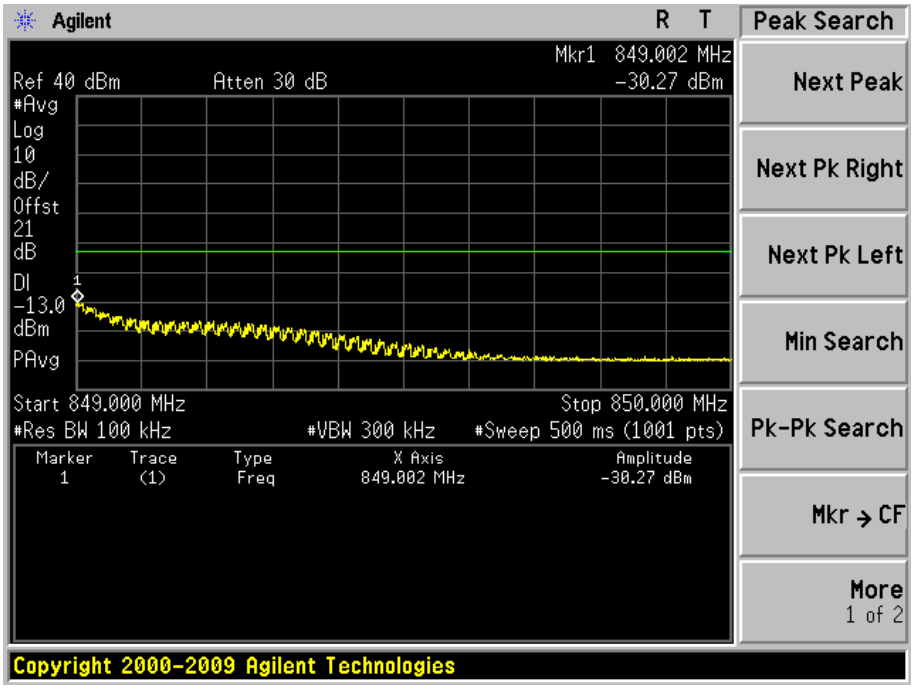
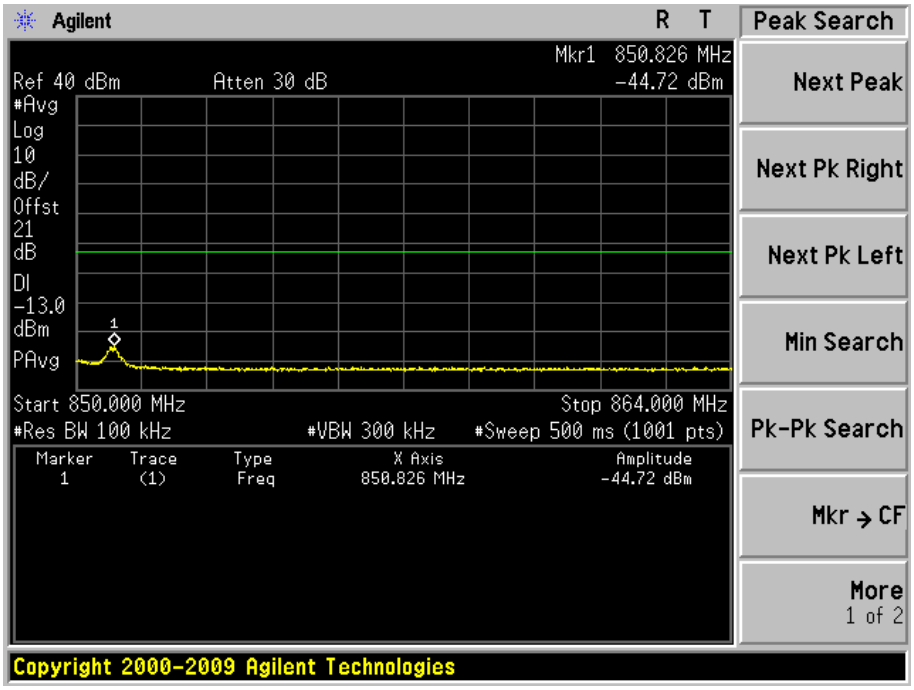

Agilent
R T
Peak Search
Mkr1 822.931 MHz
Ref 30 dBm
Atten 20 dB
-39.07 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 822.931 MHz -39.07 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

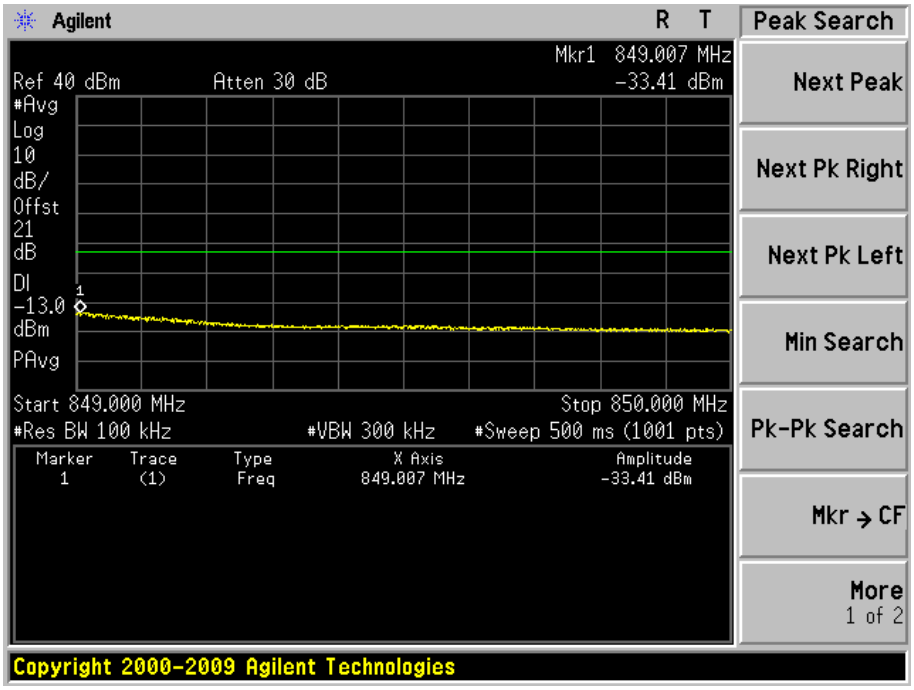
Figure Channel 26990 (844.00MHz)

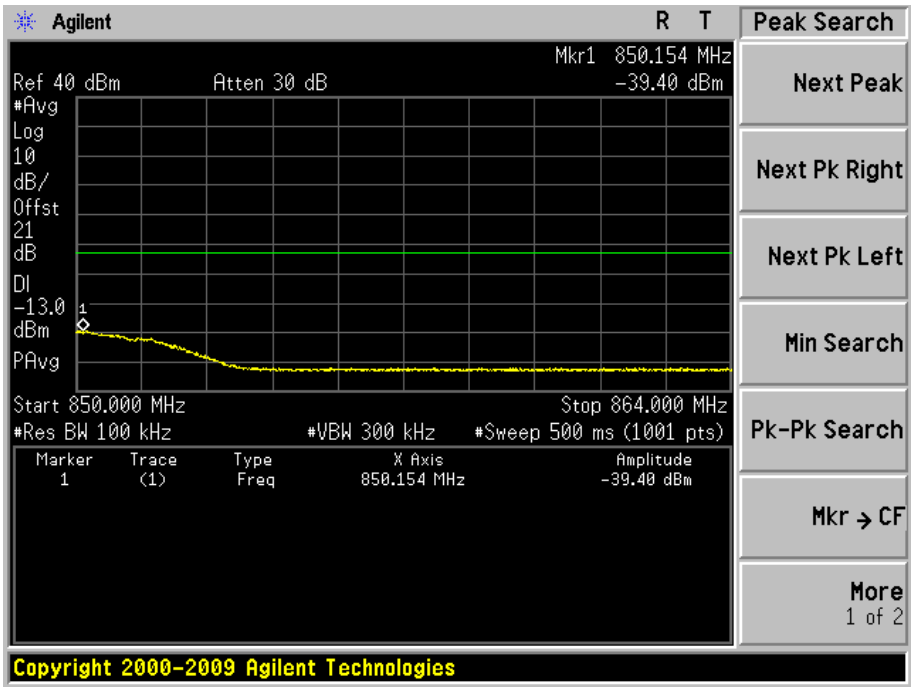
1RB49





50RB0

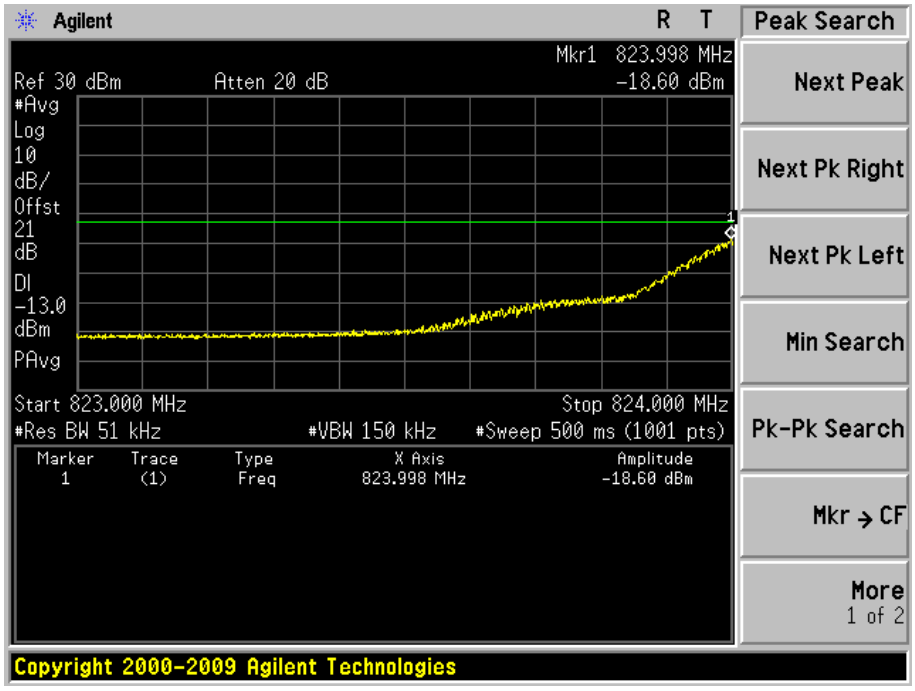

Agilent
R T
Peak Search
Mkr1 849.007 MHz
Ref 40 dBm
Atten 30 dB
-33.41 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 849.000 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.007 MHz -33.41 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

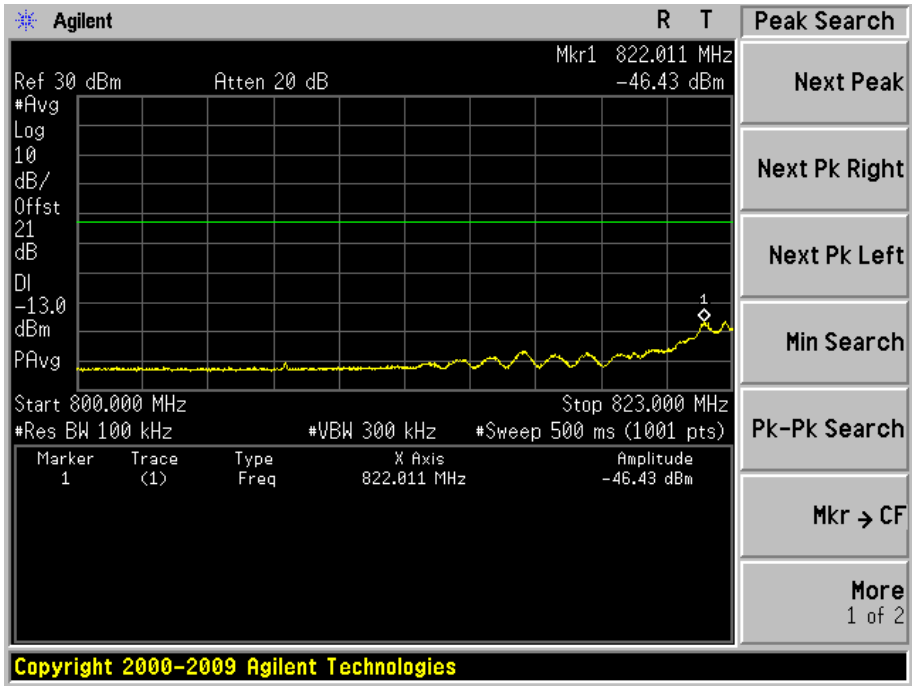

Agilent
R T
Peak Search
Mkr1 850.154 MHz
Ref 40 dBm
Atten 30 dB
-39.40 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 850.000 MHz
Stop 864.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.154 MHz -39.40 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (5M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

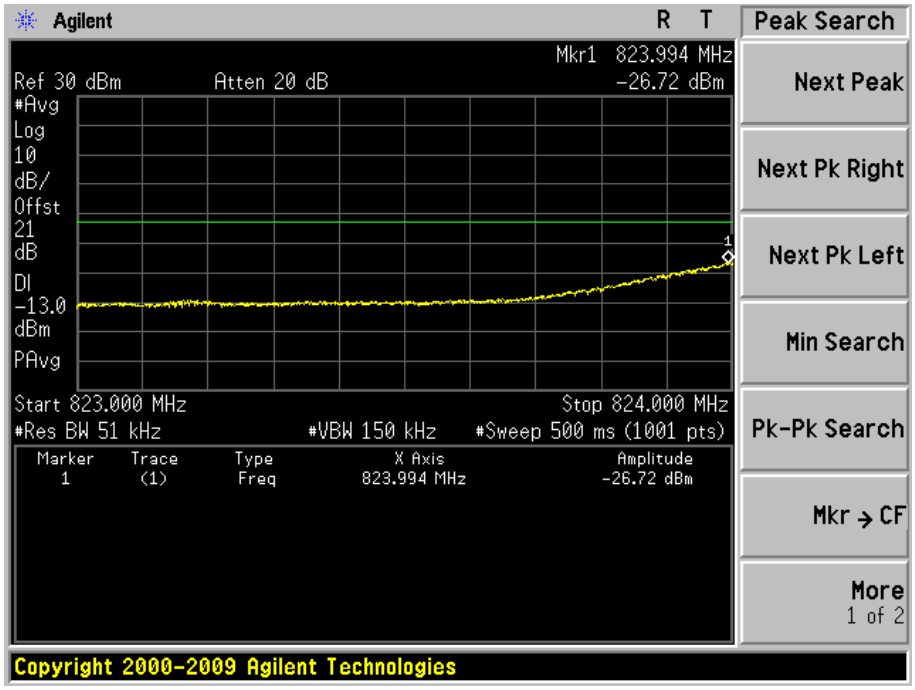
Figure Channel 26815 (826.5MHz)

1RB0





25RB0


Agilent
R T
Peak Search
Mkr1 823.994 MHz
Ref 30 dBm
Atten 20 dB
-26.72 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.994 MHz -26.72 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

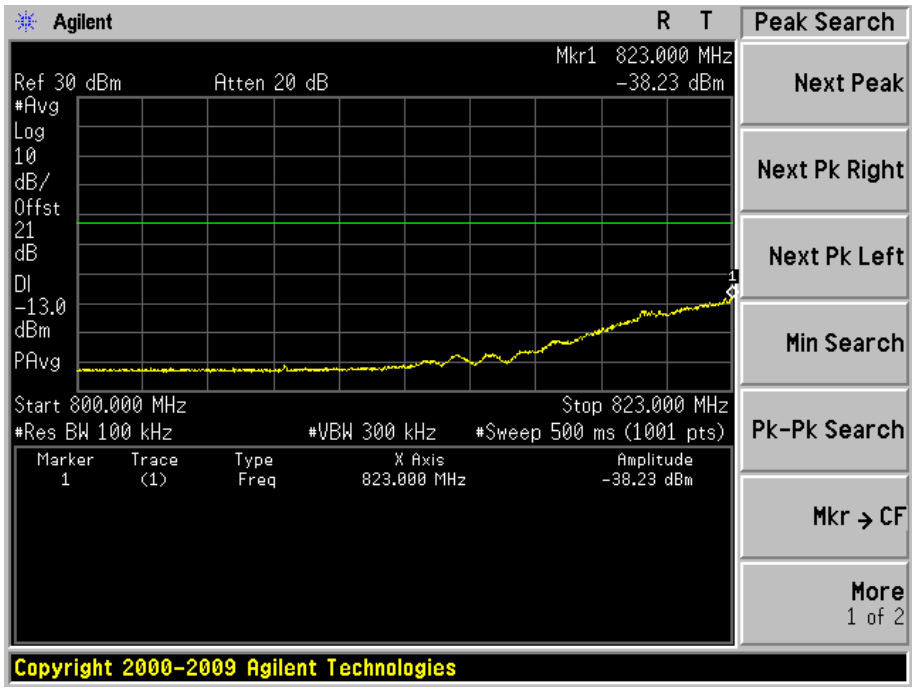
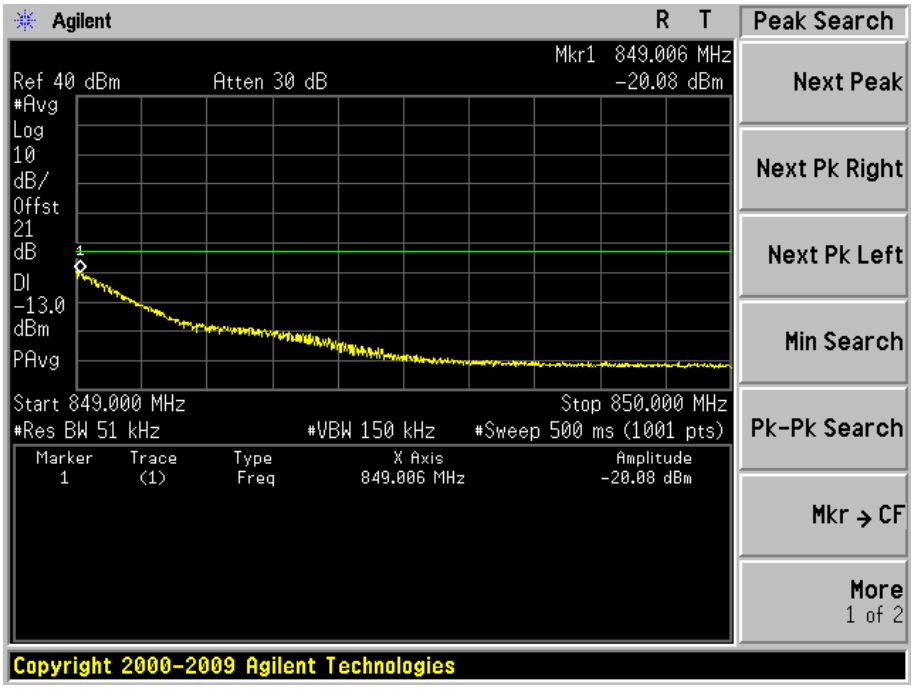
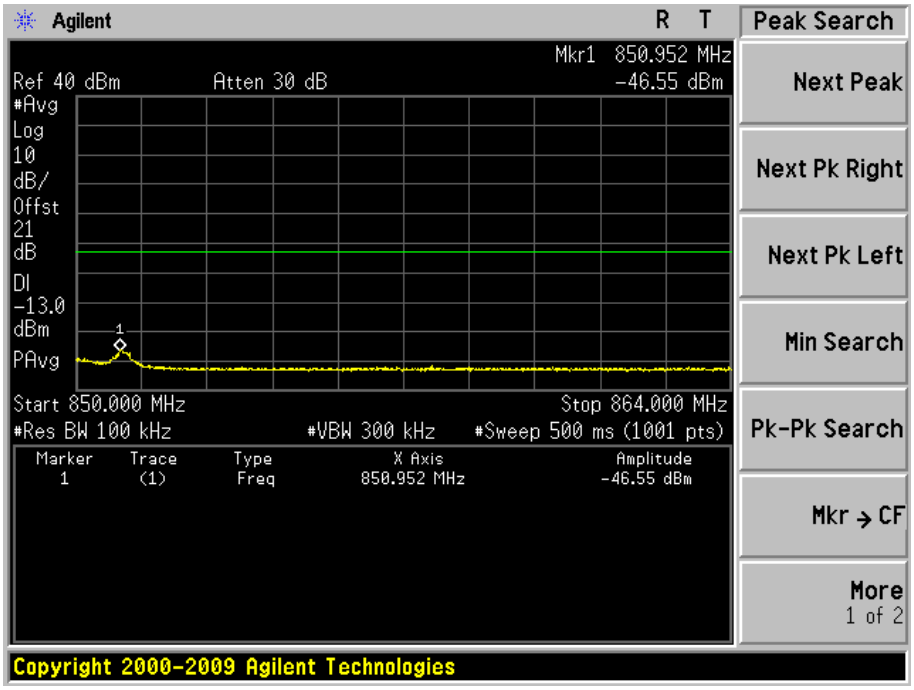

Agilent
R T
Peak Search
Mkr1 823.000 MHz
Ref 30 dBm
Atten 20 dB
-38.23 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.000 MHz -38.23 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

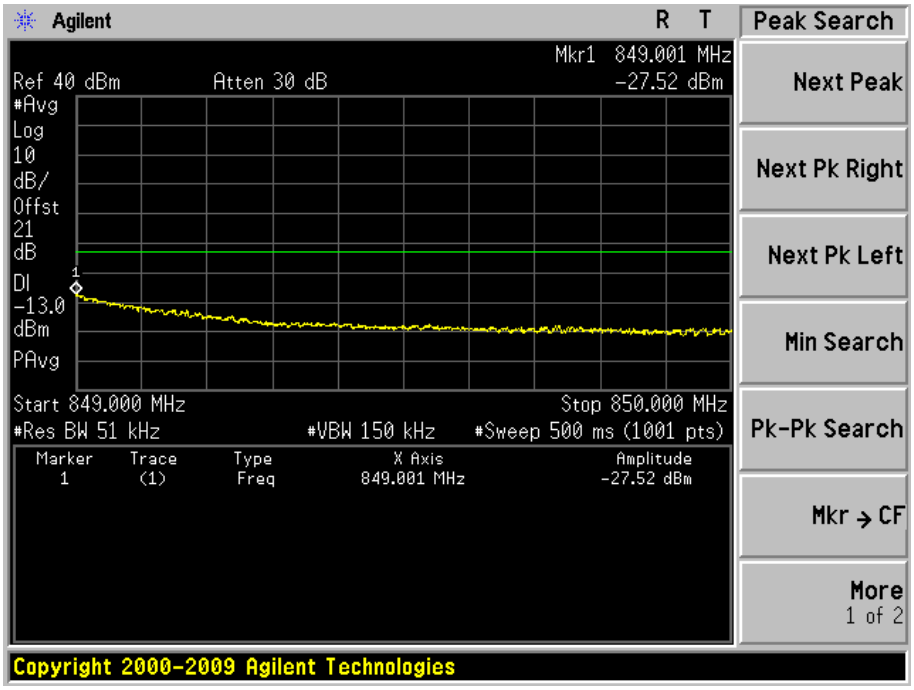
Figure Channel 27015 (846.50MHz)

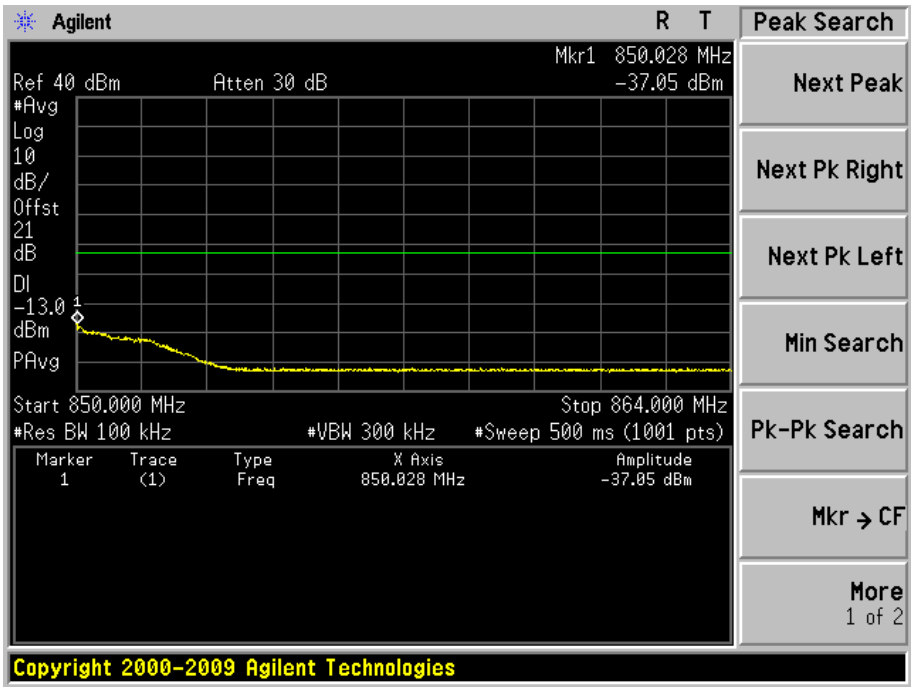
1RB24





25RB0

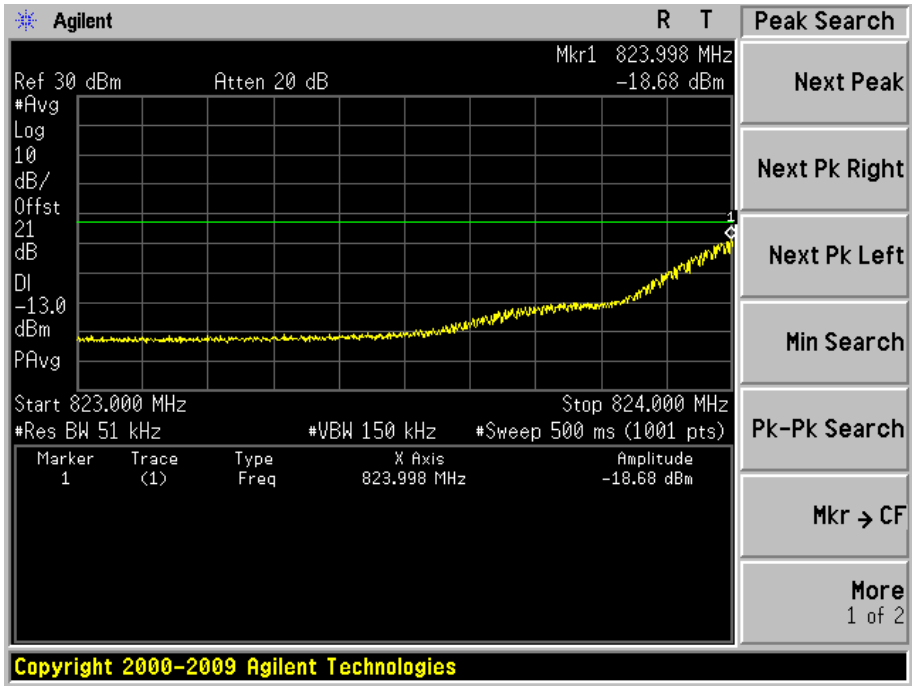

Agilent
R T
Peak Search
Mkr1 849.001 MHz
Ref 40 dBm
Atten 30 dB
-27.52 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 849.000 MHz
Stop 850.000 MHz
Pk-Pk Search
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.001 MHz -27.52 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

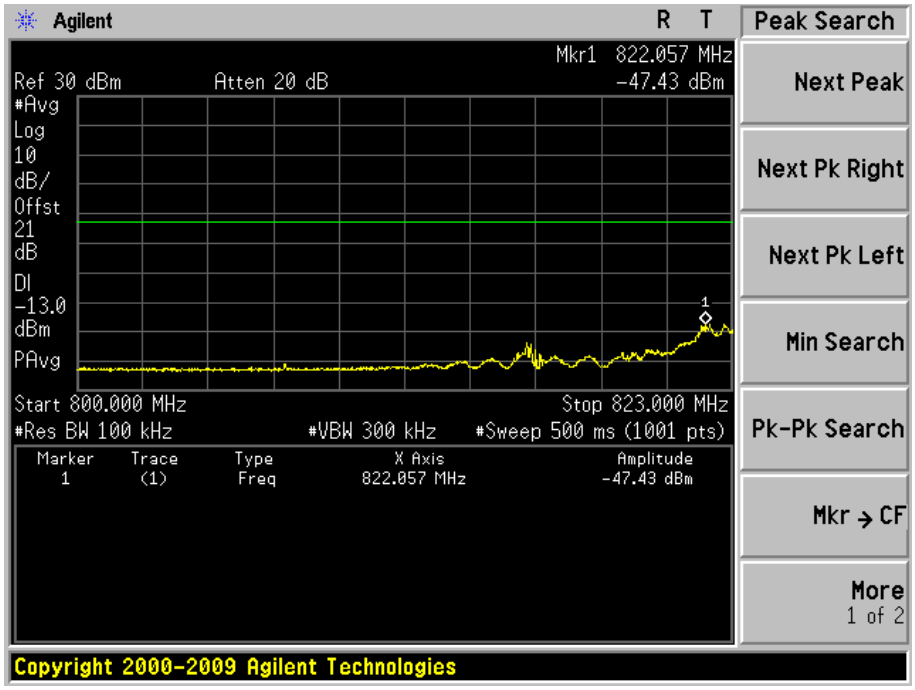

Agilent
R T
Peak Search
Mkr1 850.028 MHz
Ref 40 dBm
Atten 30 dB
-37.05 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 850.000 MHz
Stop 864.000 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.028 MHz -37.05 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

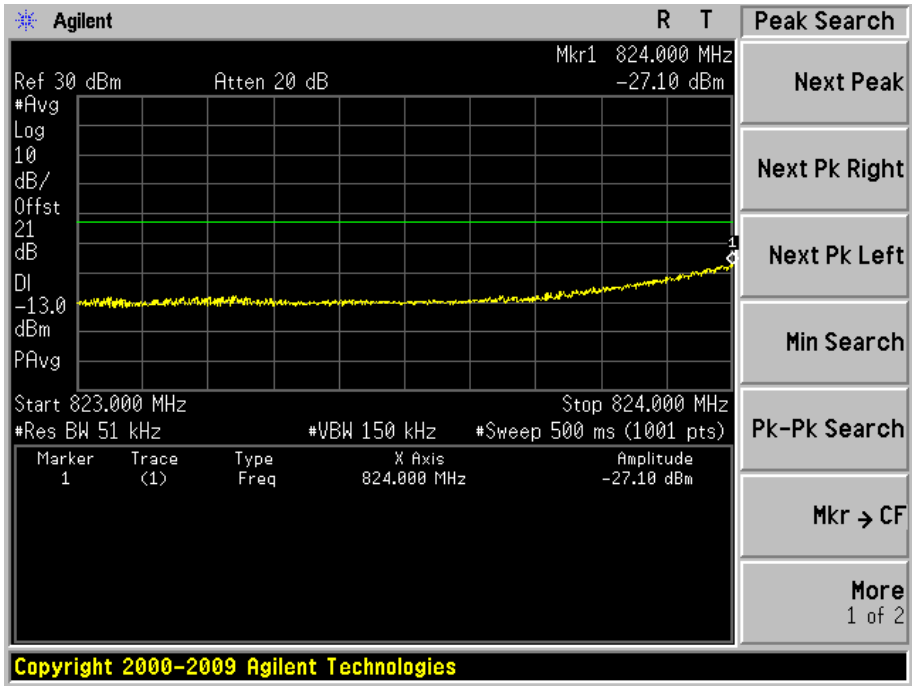
Figure Channel 26815 (826.5MHz)

1RB0





25RB0


Agilent
R T
Peak Search
Mkr1 824.000 MHz
Ref 30 dBm
Atten 20 dB
-27.10 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 MHz -27.10 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

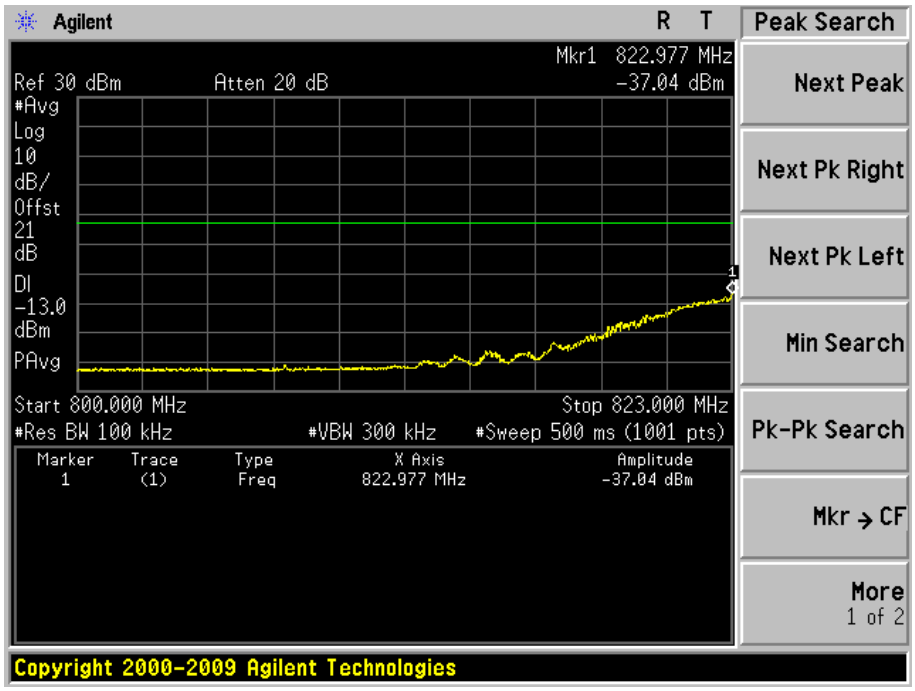
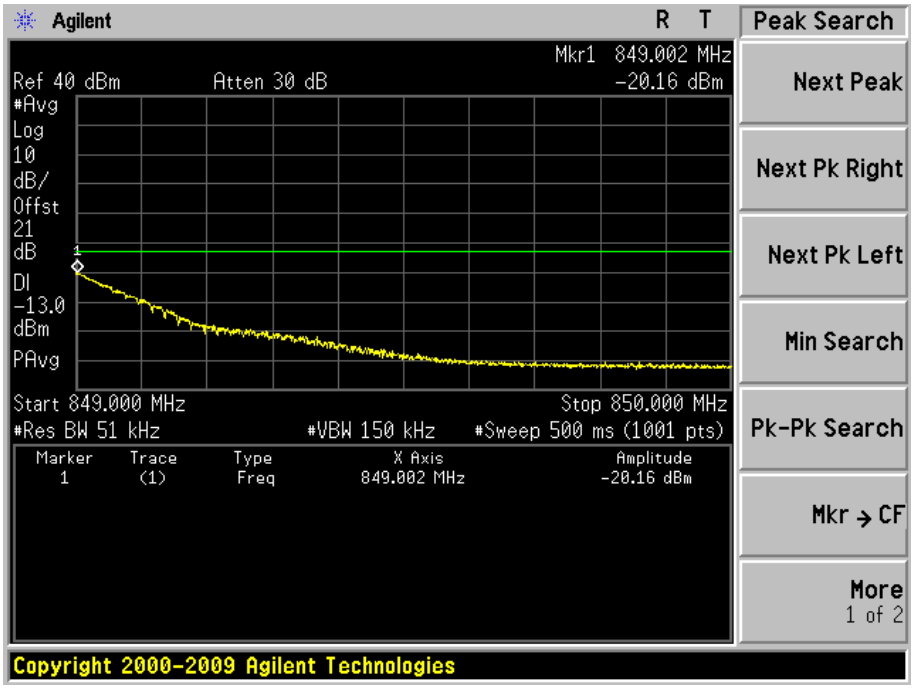
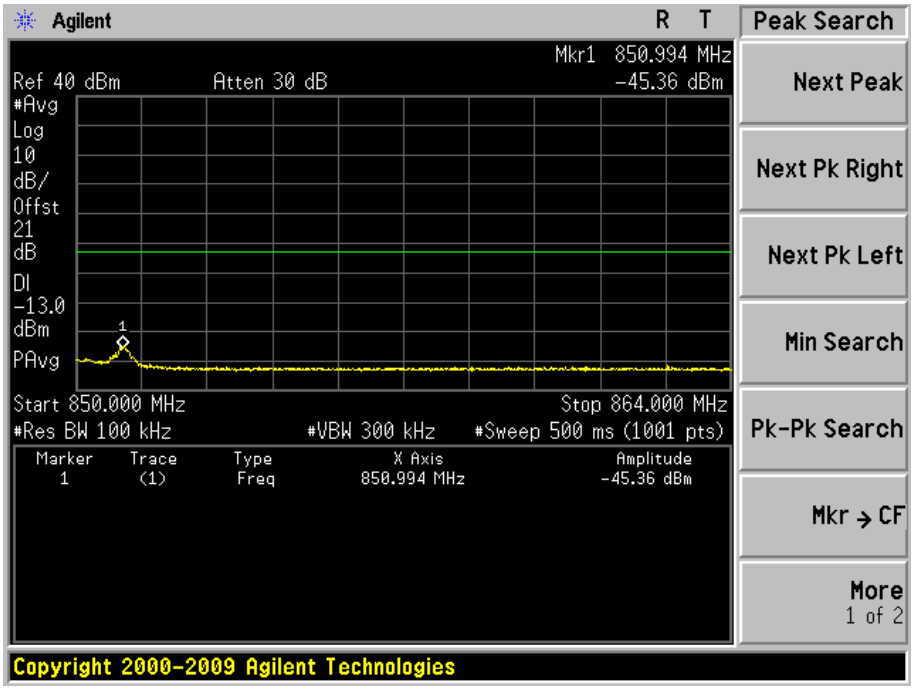

Agilent
R T
Peak Search
Mkr1 822.977 MHz
Ref 30 dBm
Atten 20 dB
-37.04 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 822.977 MHz -37.04 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

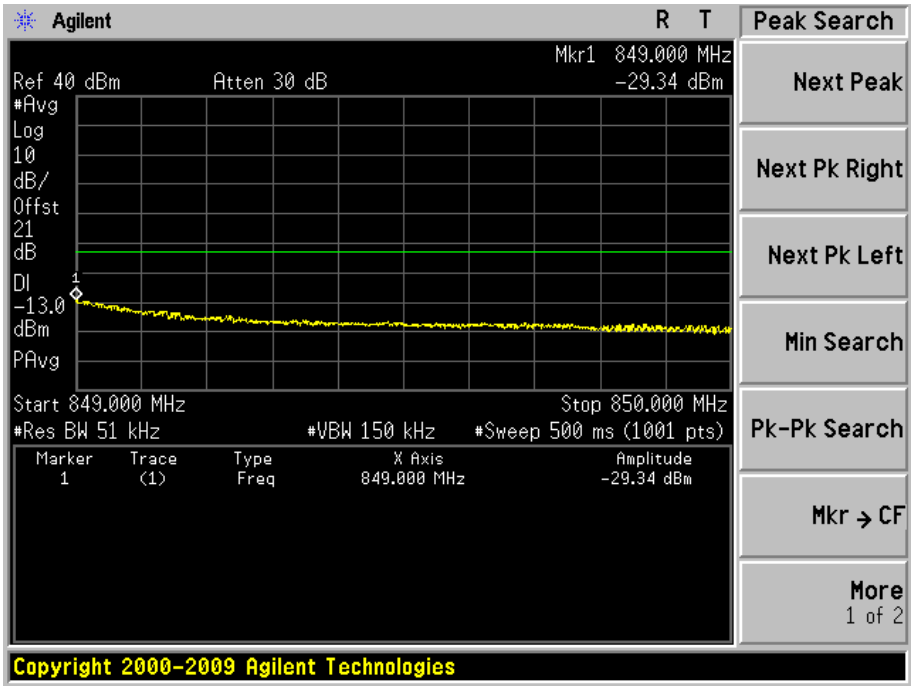
Figure Channel 27015 (846.50MHz)

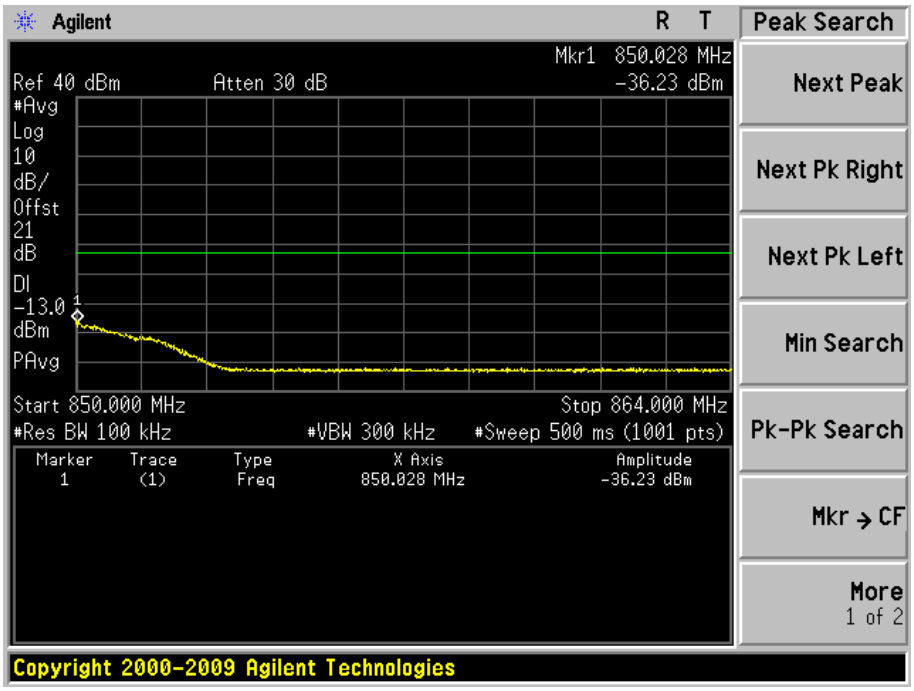
1RB24





25RB0

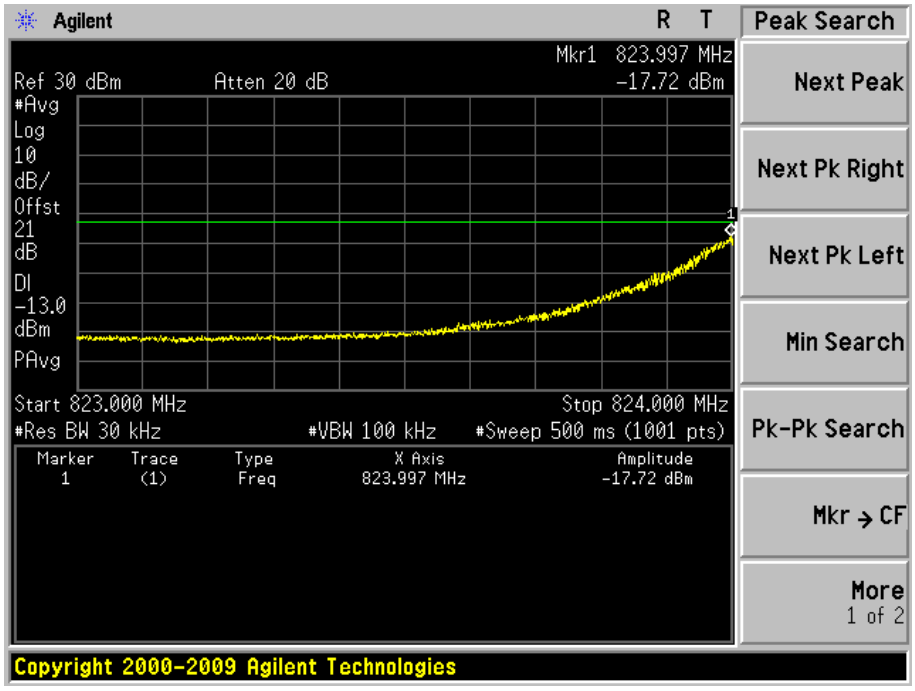

Agilent
R T
Peak Search
Mkr1 849.000 MHz
Ref 40 dBm
Atten 30 dB
-29.34 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 849.000 MHz
Stop 850.000 MHz
Pk-Pk Search
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.000 MHz -29.34 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

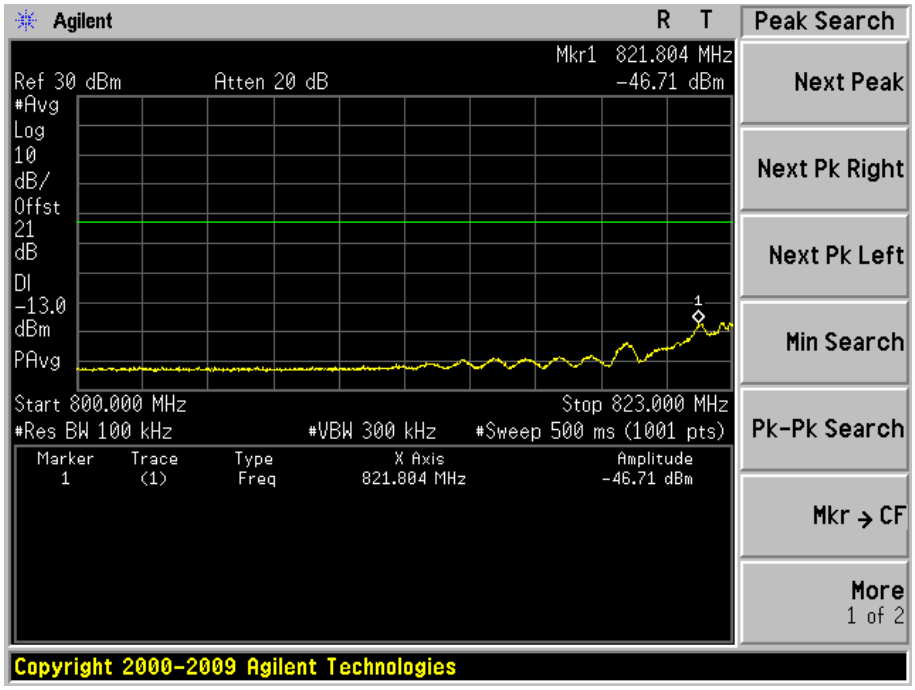

Agilent
R T
Peak Search
Mkr1 850.028 MHz
Ref 40 dBm
Atten 30 dB
-36.23 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 850.000 MHz
Stop 864.000 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.028 MHz -36.23 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (3M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

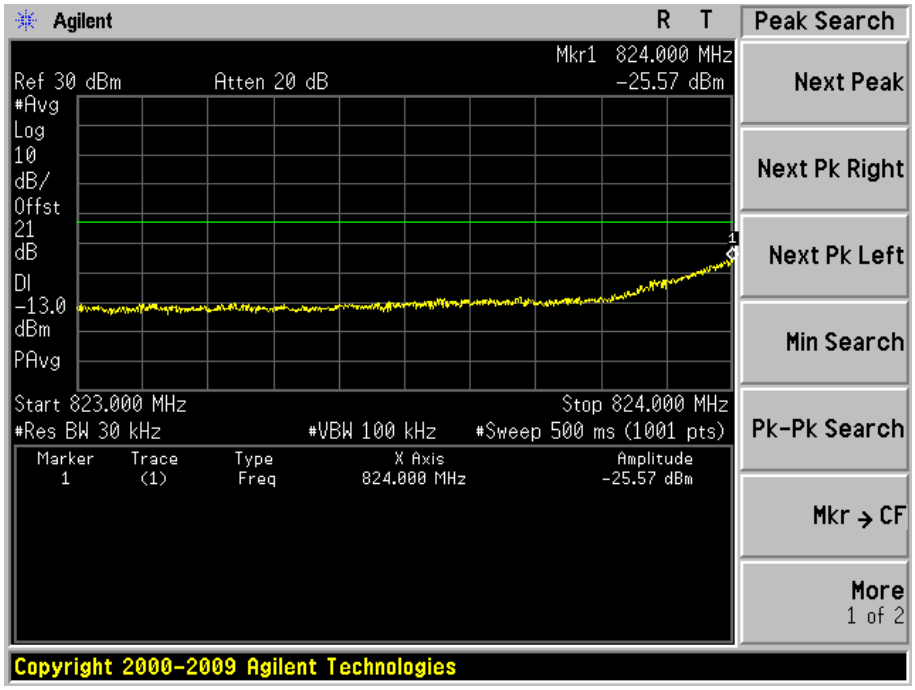
Figure Channel 26805 (825.50MHz)

1RB0





15RB0


Agilent
R T
Peak Search
Mkr1 824.000 MHz
Ref 30 dBm
Atten 20 dB
-25.57 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 MHz -25.57 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

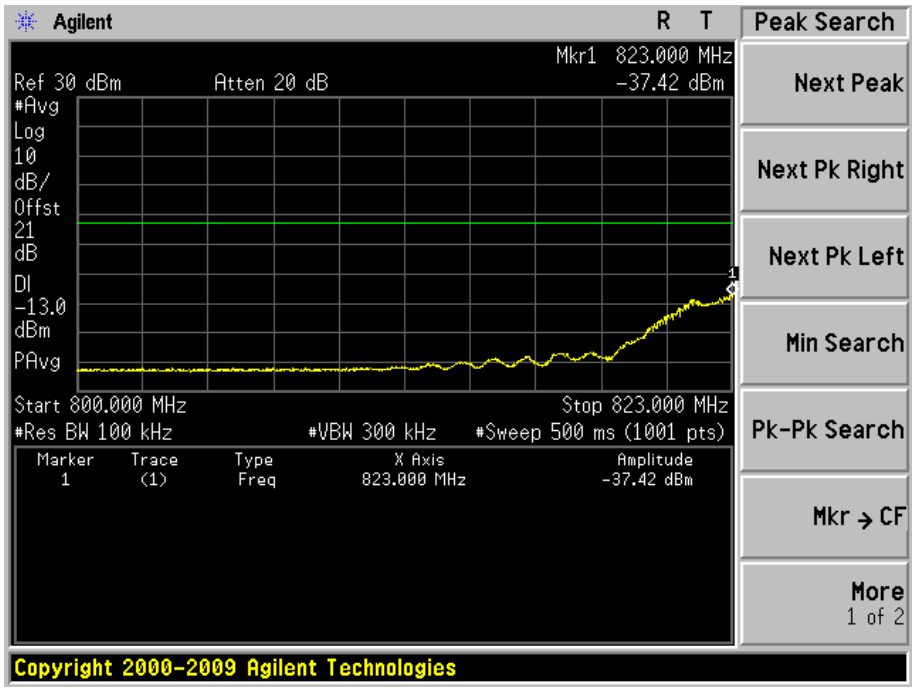
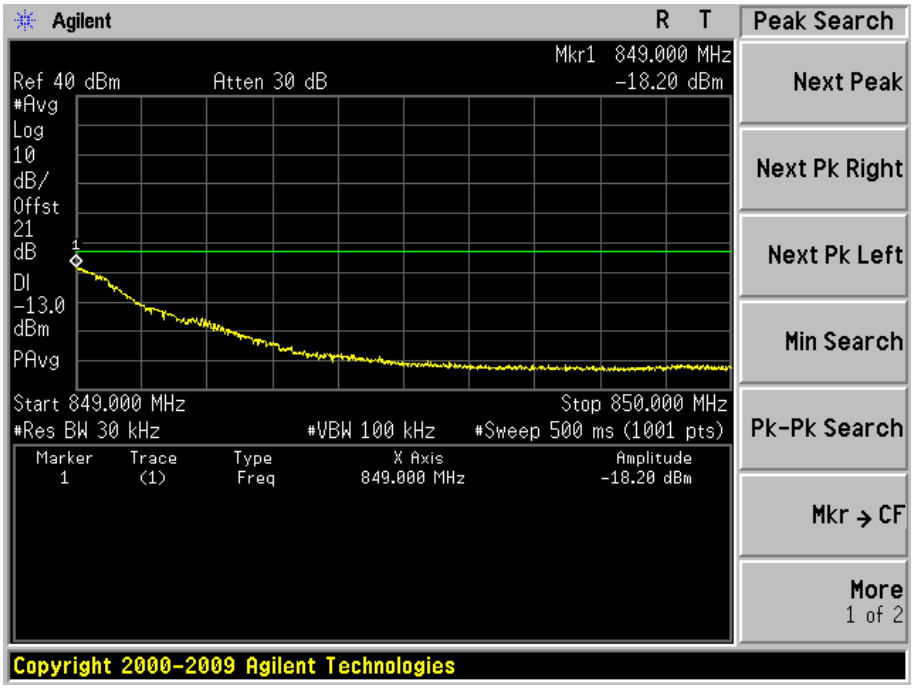
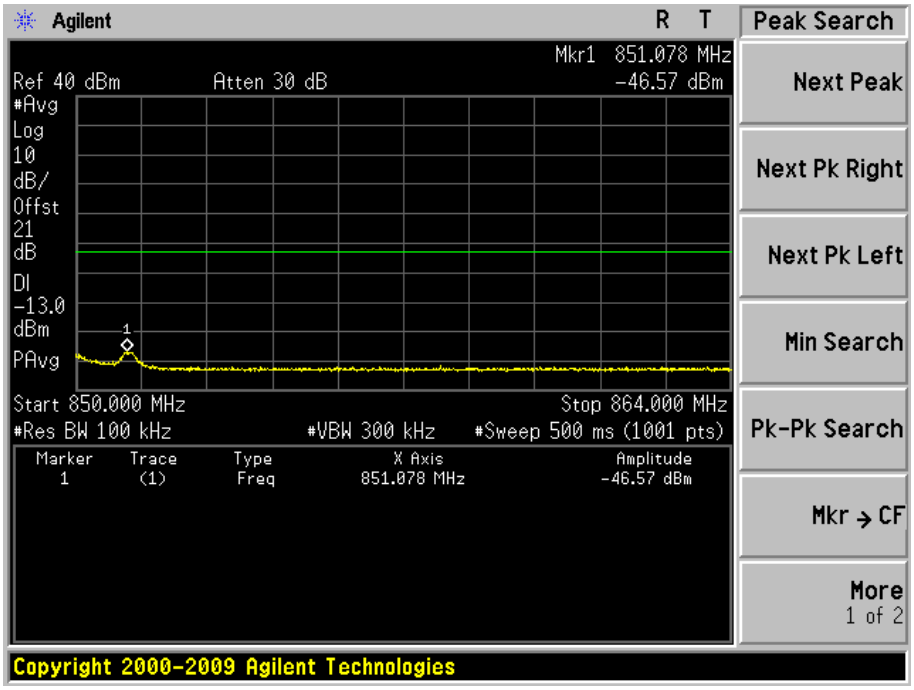

Agilent
R T
Peak Search
Mkr1 823.000 MHz
Ref 30 dBm
Atten 20 dB
-37.42 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.000 MHz -37.42 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

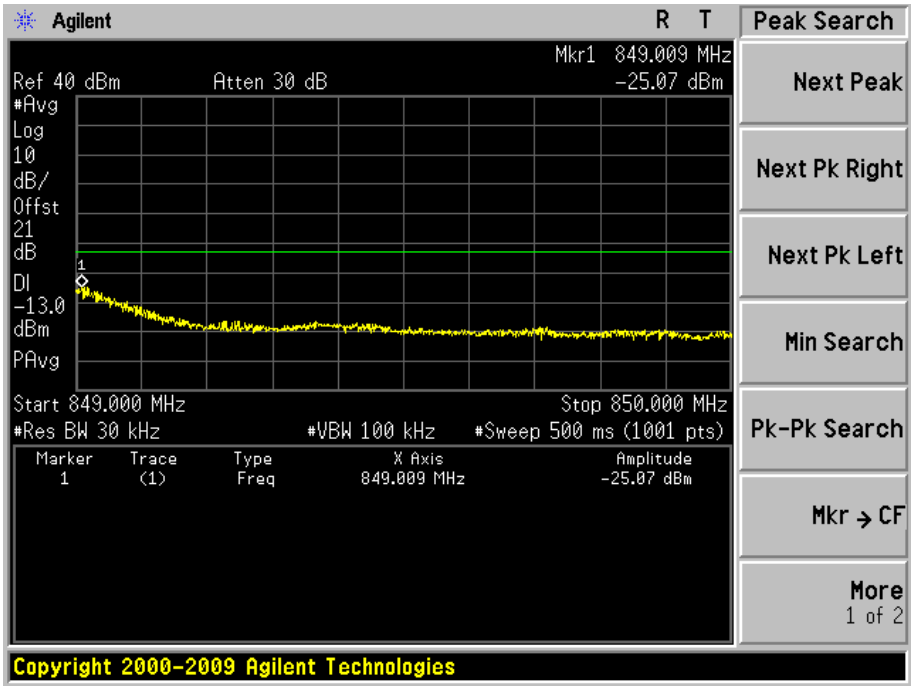
Figure Channel 27025 (847.50MHz)

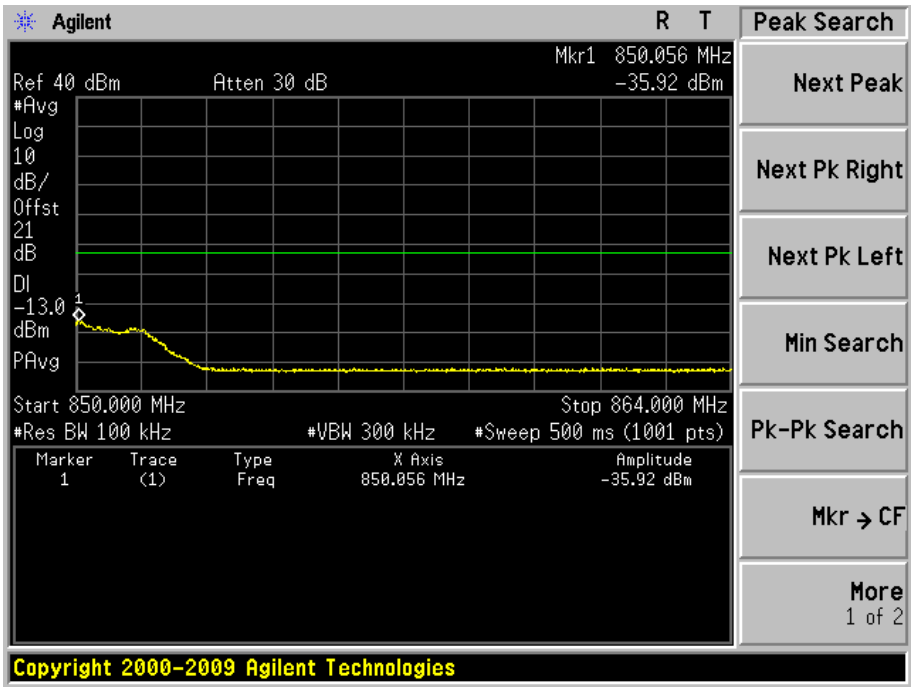
1RB14





15RB0

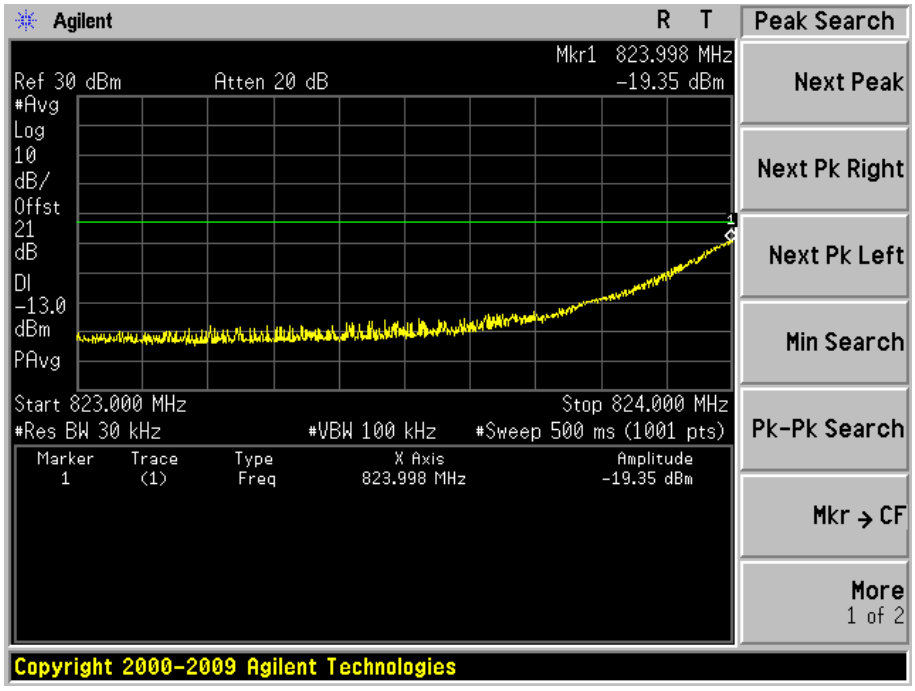

Agilent
R T
Peak Search
Mkr1 849.009 MHz
Ref 40 dBm
Atten 30 dB
-25.07 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 849.000 MHz
Stop 850.000 MHz
Pk-Pk Search
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.009 MHz -25.07 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

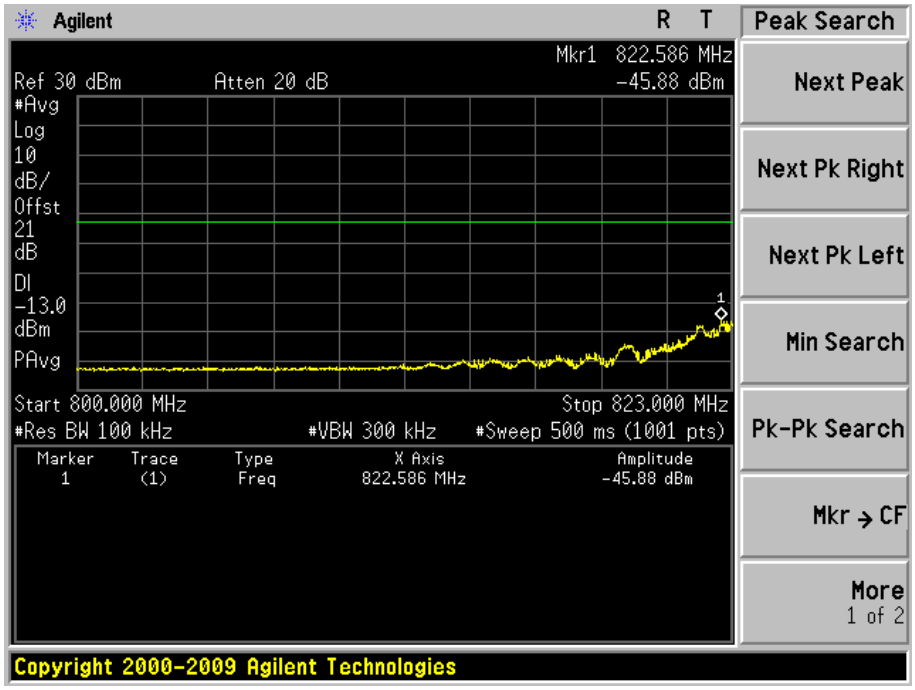

Agilent
R T
Peak Search
Mkr1 850.056 MHz
Ref 40 dBm
Atten 30 dB
-35.92 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 850.000 MHz
Stop 864.000 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.056 MHz -35.92 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

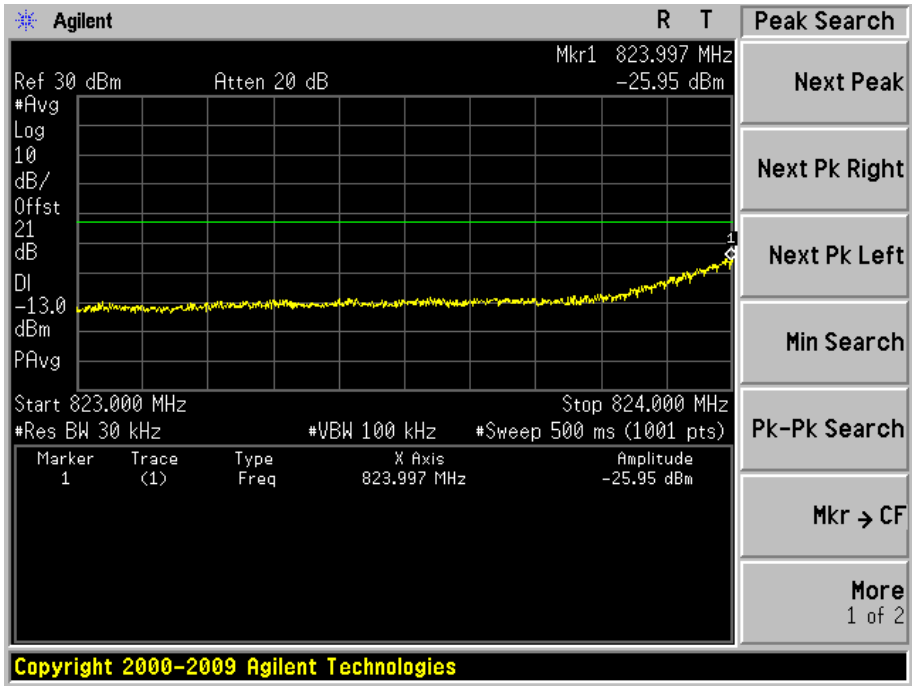
Figure Channel 26805 (825.50MHz)

1RB0





15RB0


Agilent
R T
Peak Search
Mkr1 823.997 MHz
Ref 30 dBm
Atten 20 dB
-25.95 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.997 MHz -25.95 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

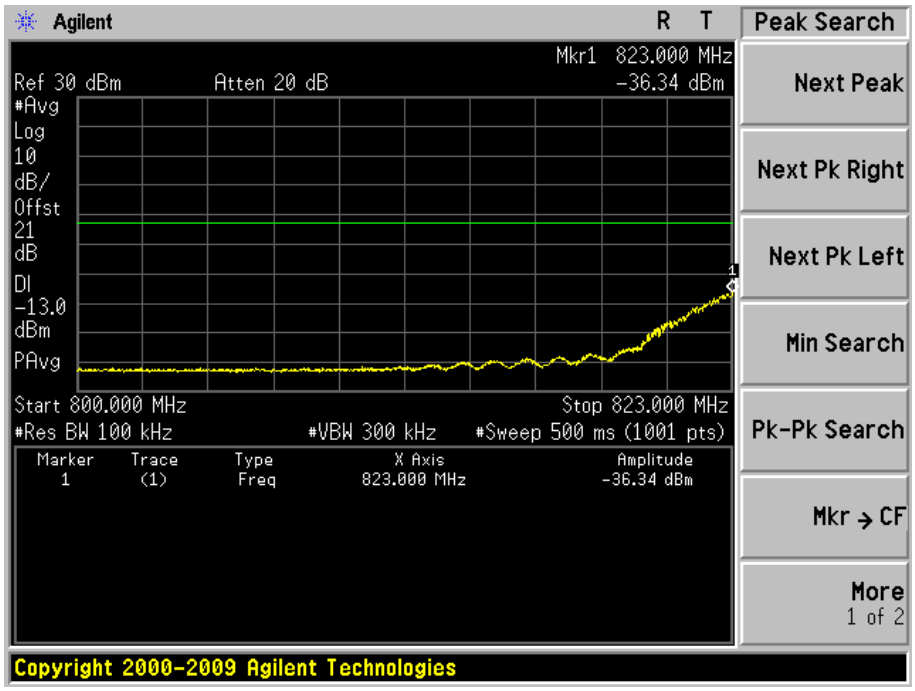
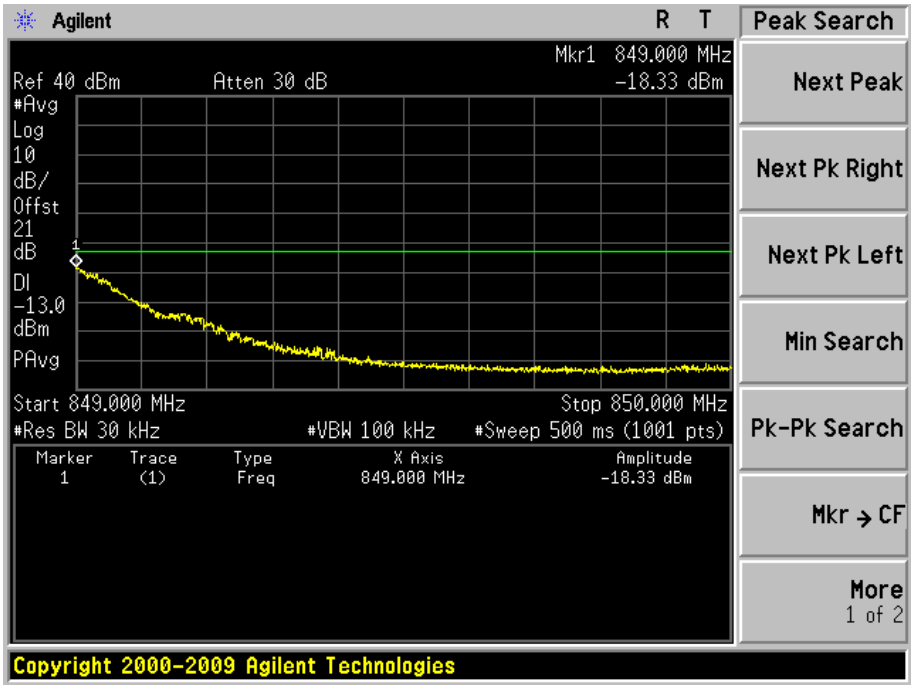
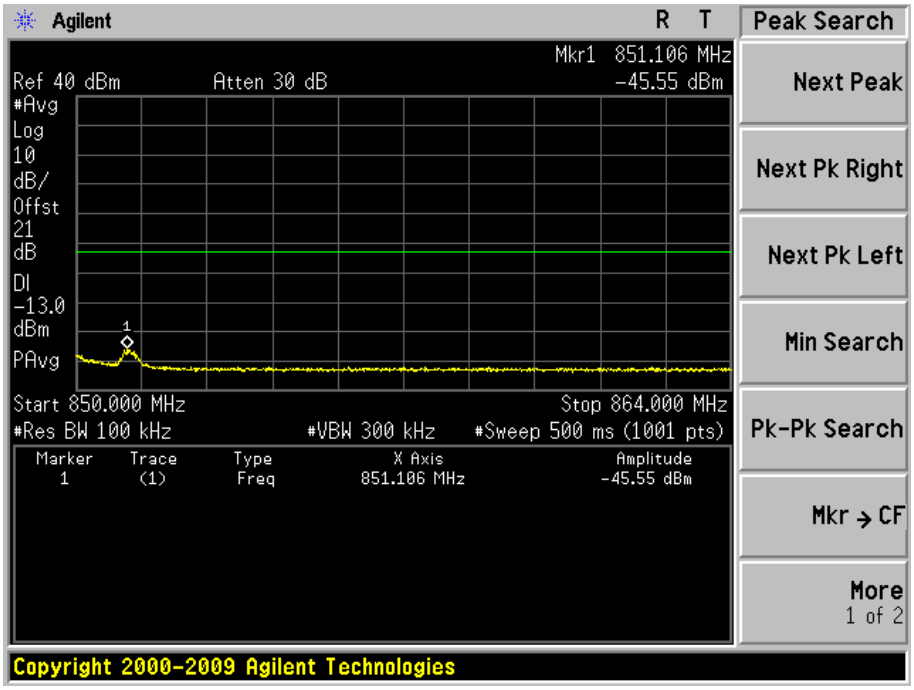

Agilent
R T
Peak Search
Mkr1 823.000 MHz
Ref 30 dBm
Atten 20 dB
-36.34 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.000 MHz -36.34 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

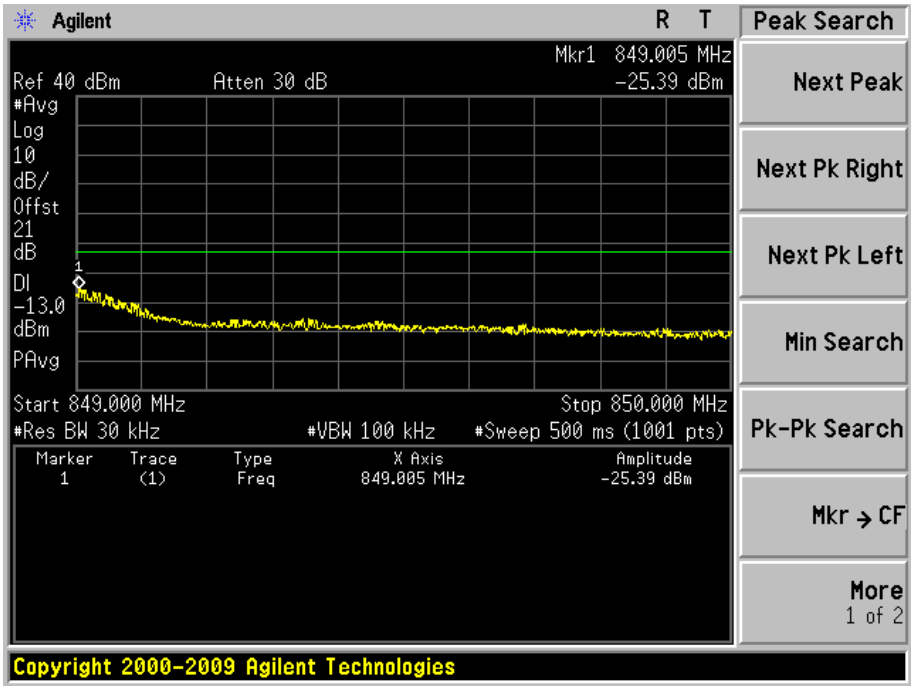
Figure Channel 26805 (825.50MHz)

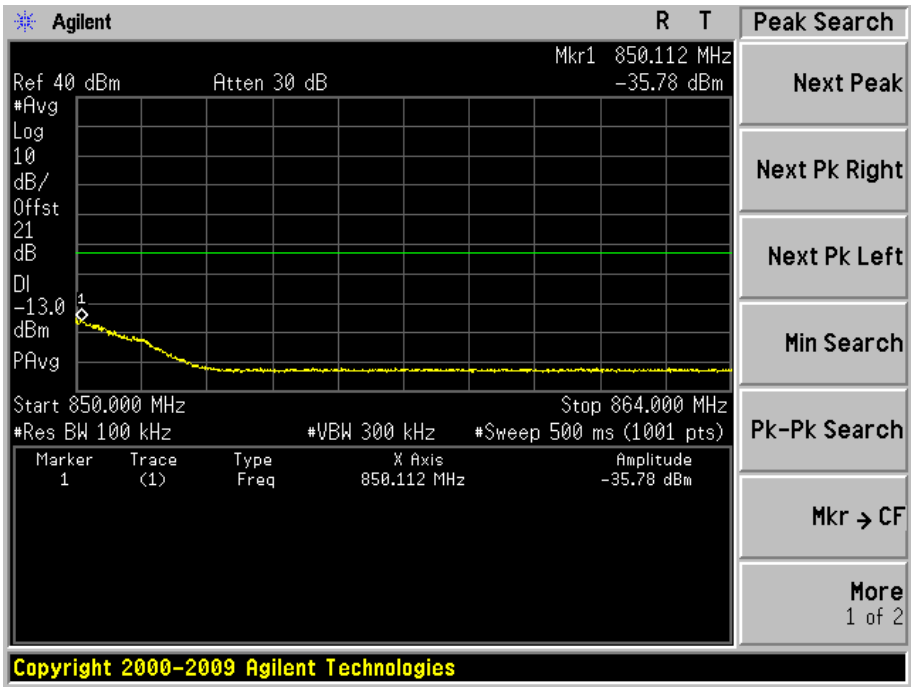
1RB14





15RB0

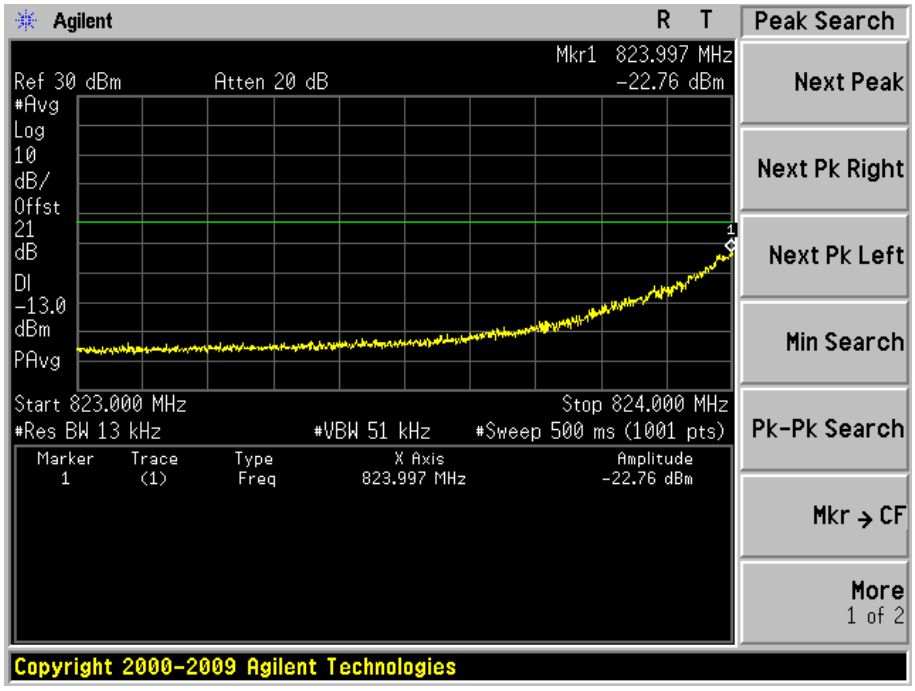

Agilent
R T
Peak Search
Mkr1 849.005 MHz
Ref 40 dBm
Atten 30 dB
-25.39 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 849.000 MHz
Stop 850.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.005 MHz -25.39 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

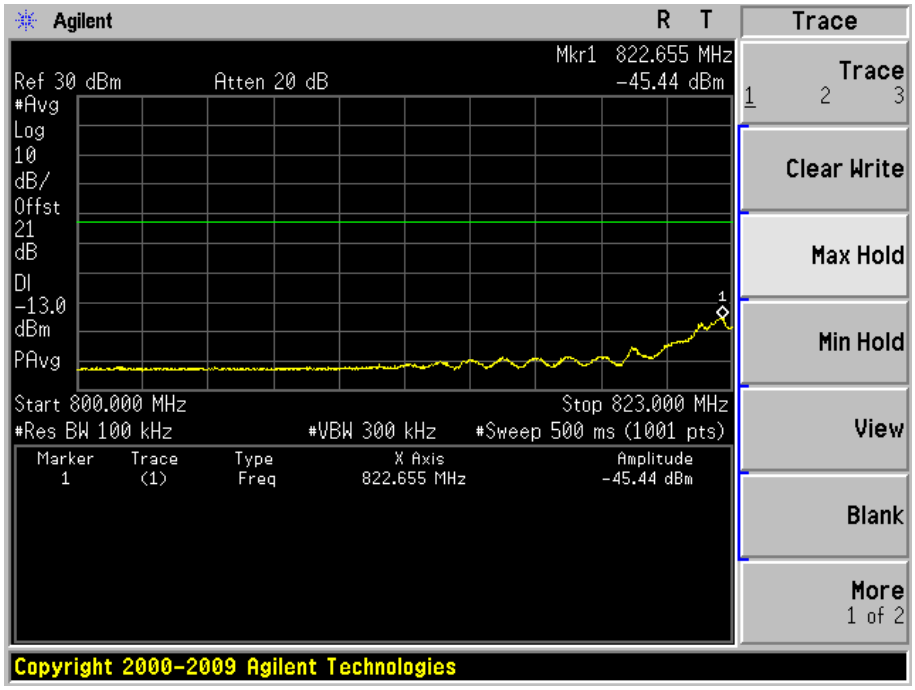

Agilent
R T
Peak Search
Mkr1 850.112 MHz
Ref 40 dBm
Atten 30 dB
-35.78 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 850.000 MHz
Stop 864.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.112 MHz -35.78 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

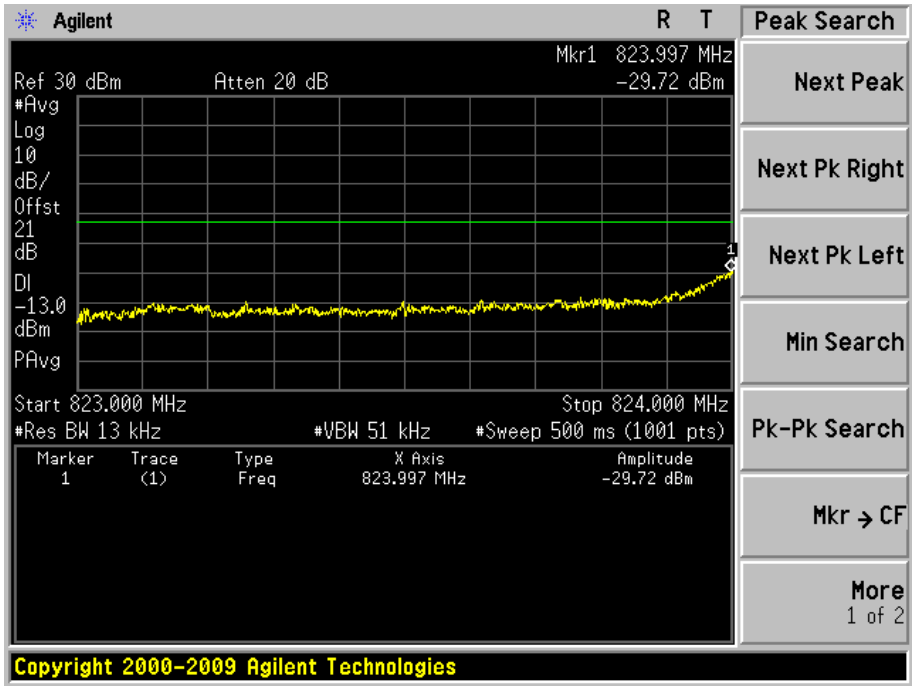
Figure Channel 26797 (824.70MHz)

1RB0





7RB0


Agilent
R T
Peak Search
Mkr1 823.997 MHz
Ref 30 dBm
Atten 20 dB
-29.72 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.997 MHz -29.72 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

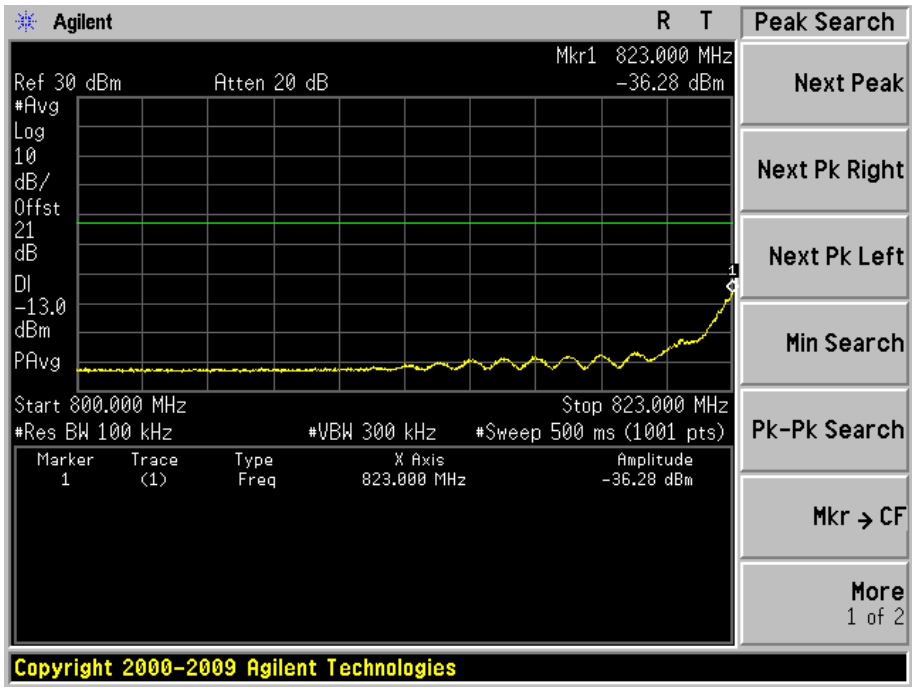
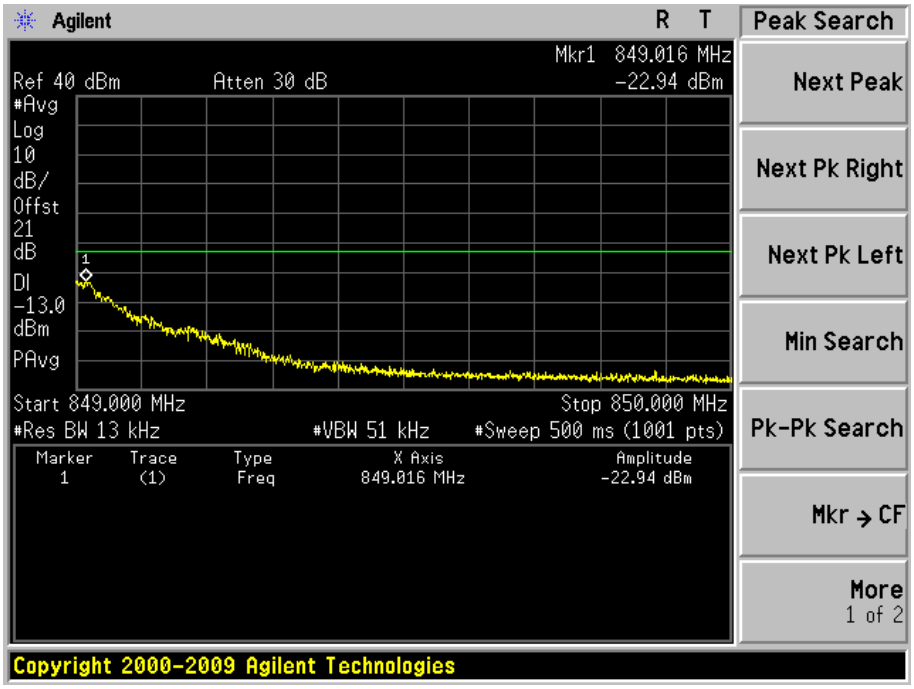
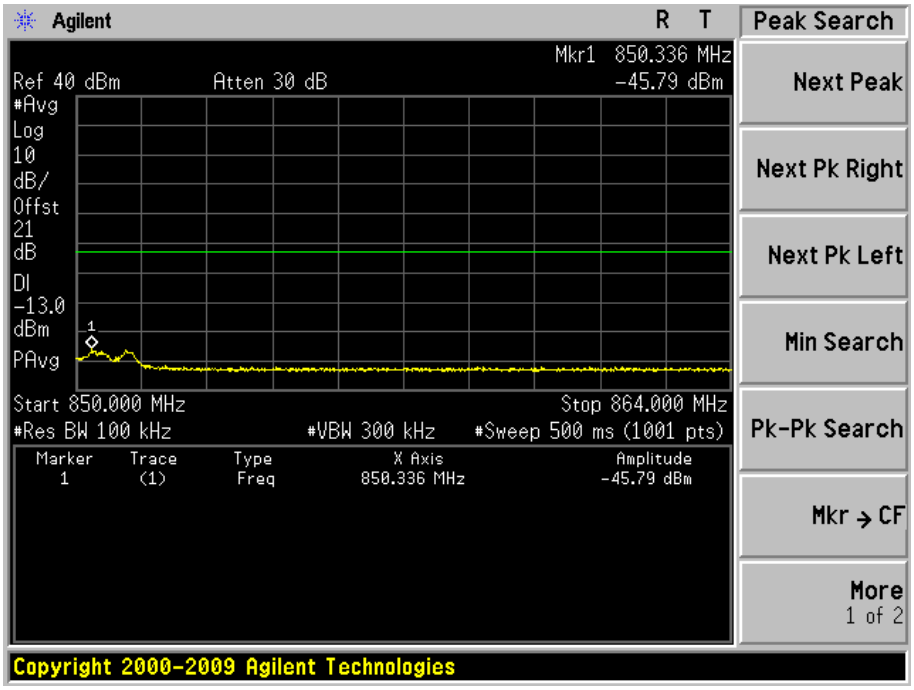

Agilent
R T
Peak Search
Mkr1 823.000 MHz
Ref 30 dBm
Atten 20 dB
-36.28 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.000 MHz -36.28 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

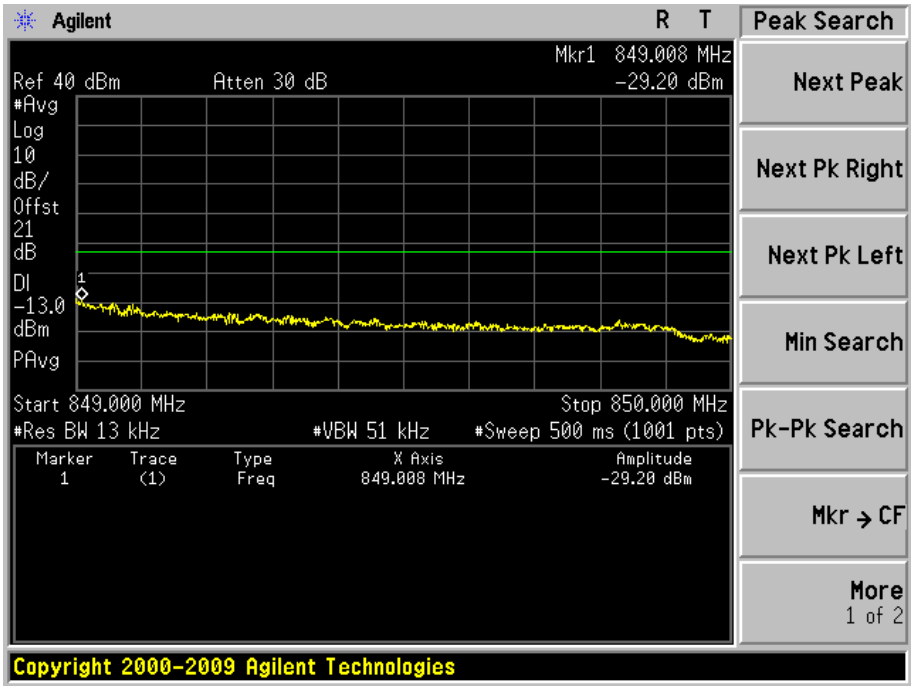
Figure Channel 27033 (848.30MHz)

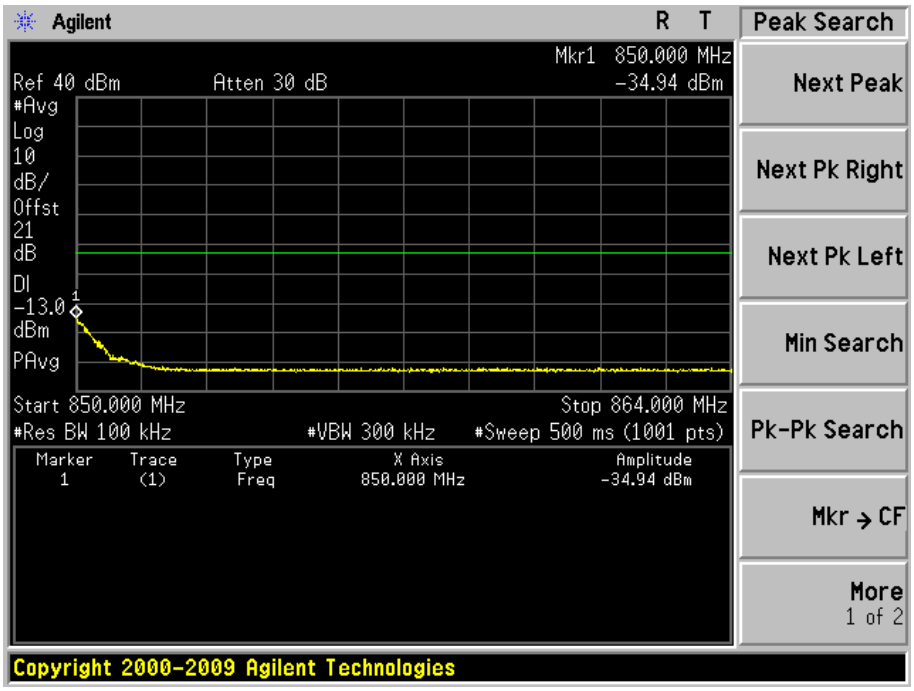
1RB6





7RB0

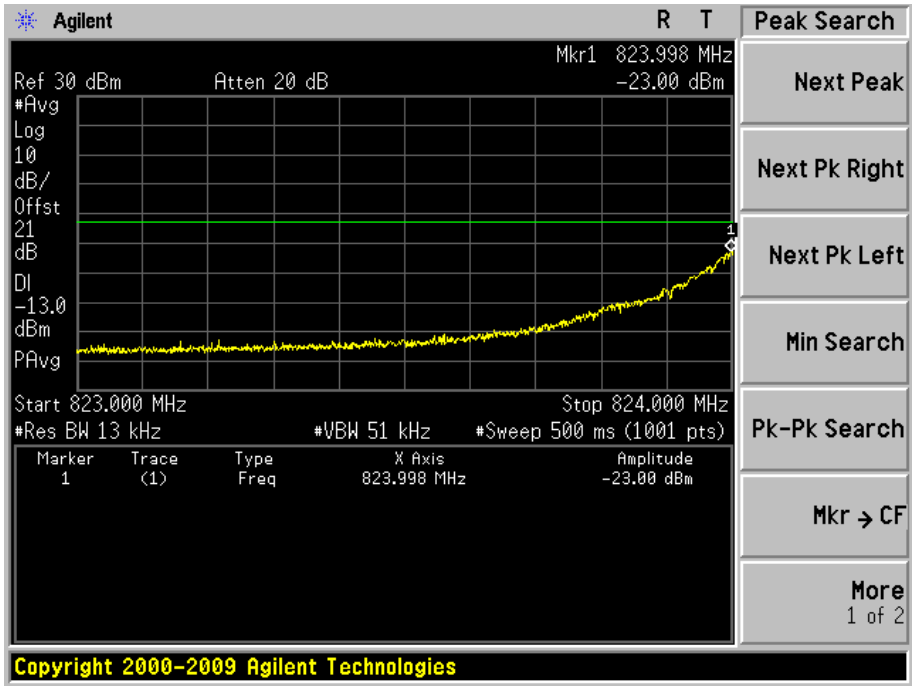

Agilent
R T
Peak Search
Mkr1 849.008 MHz
Ref 40 dBm
Atten 30 dB
-29.20 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 849.000 MHz
Stop 850.000 MHz
Pk-Pk Search
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.008 MHz -29.20 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

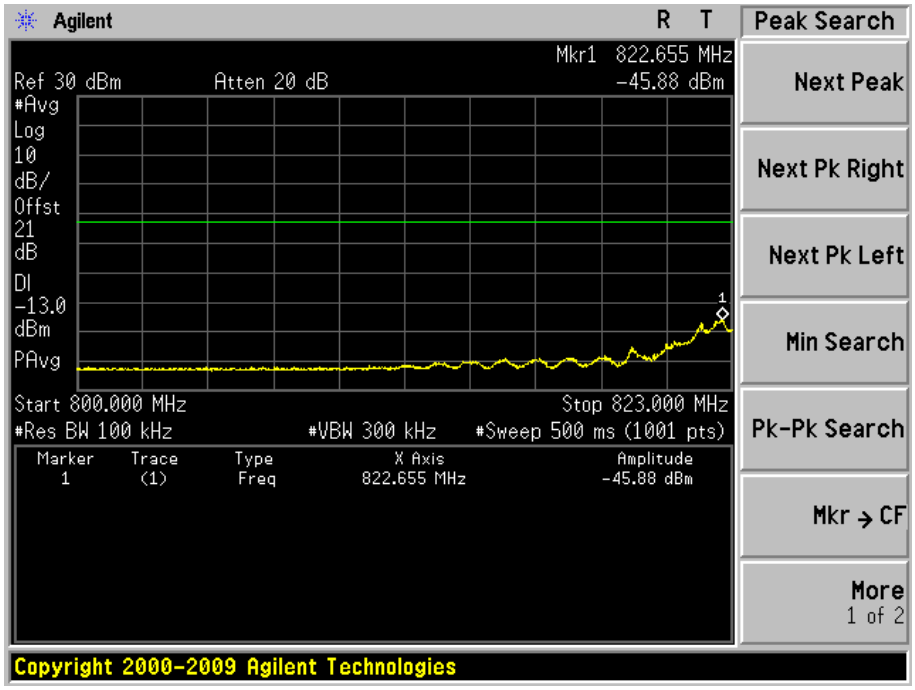

Agilent
R T
Peak Search
Mkr1 850.000 MHz
Ref 40 dBm
Atten 30 dB
-34.94 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 850.000 MHz
Stop 864.000 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.000 MHz -34.94 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

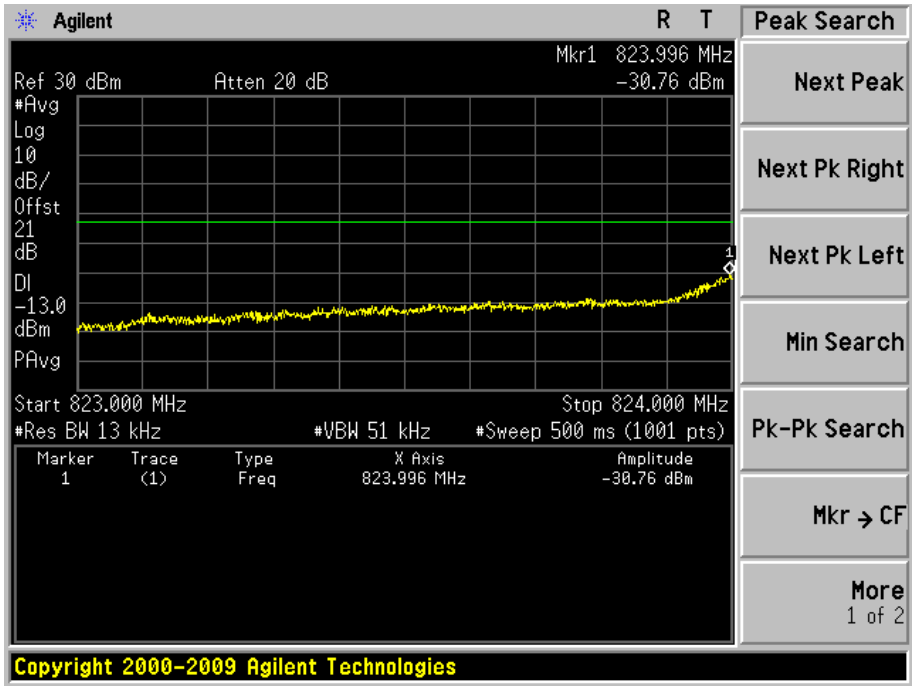
Figure Channel 26797 (824.70MHz)

1RB0





7RB0


Agilent
R T
Peak Search
Mkr1 823.996 MHz
Ref 30 dBm
Atten 20 dB
-30.76 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 823.000 MHz
Stop 824.000 MHz
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.996 MHz -30.76 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

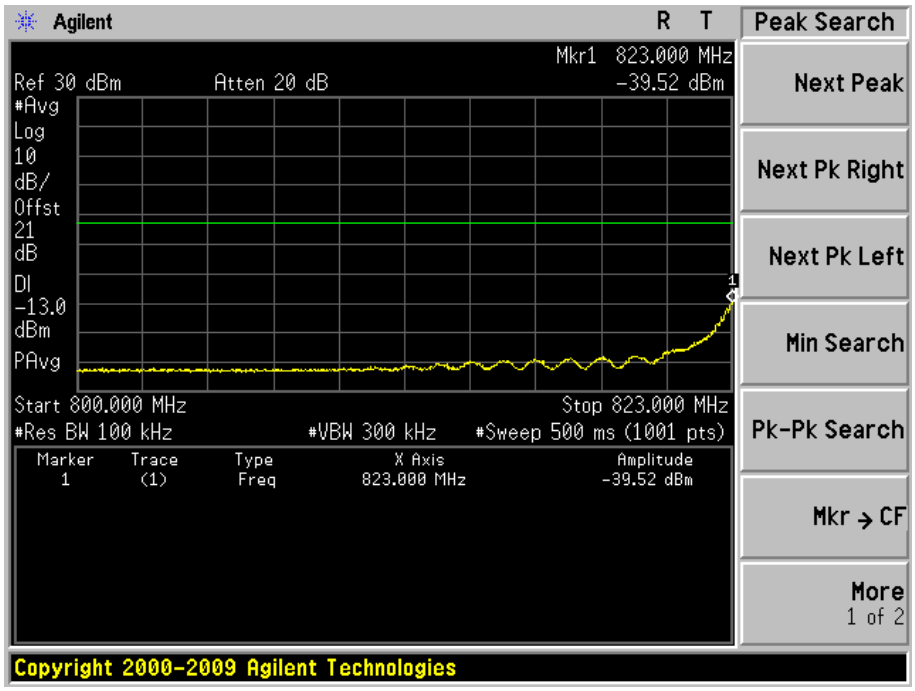
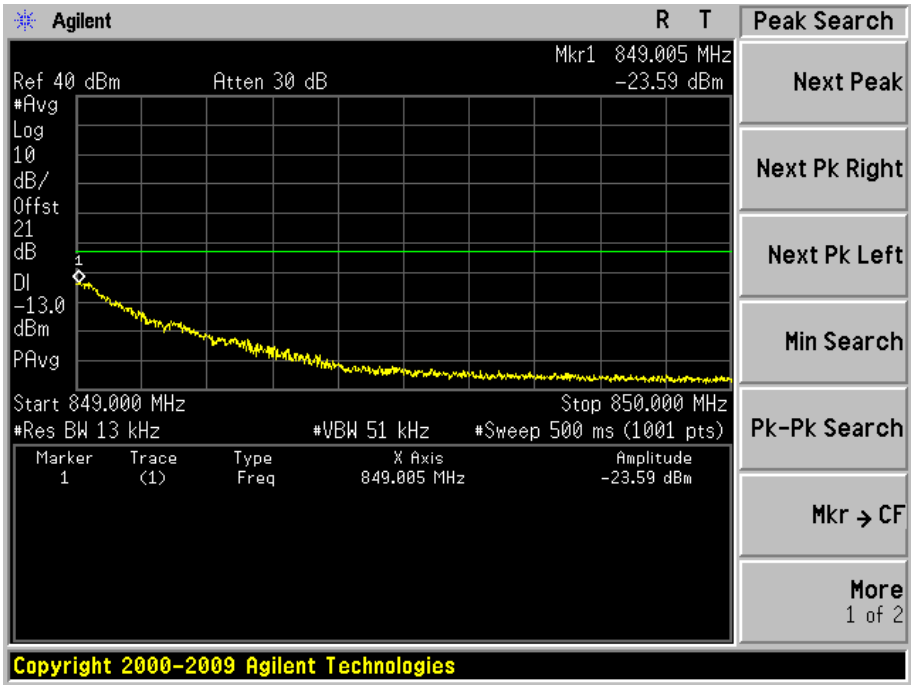
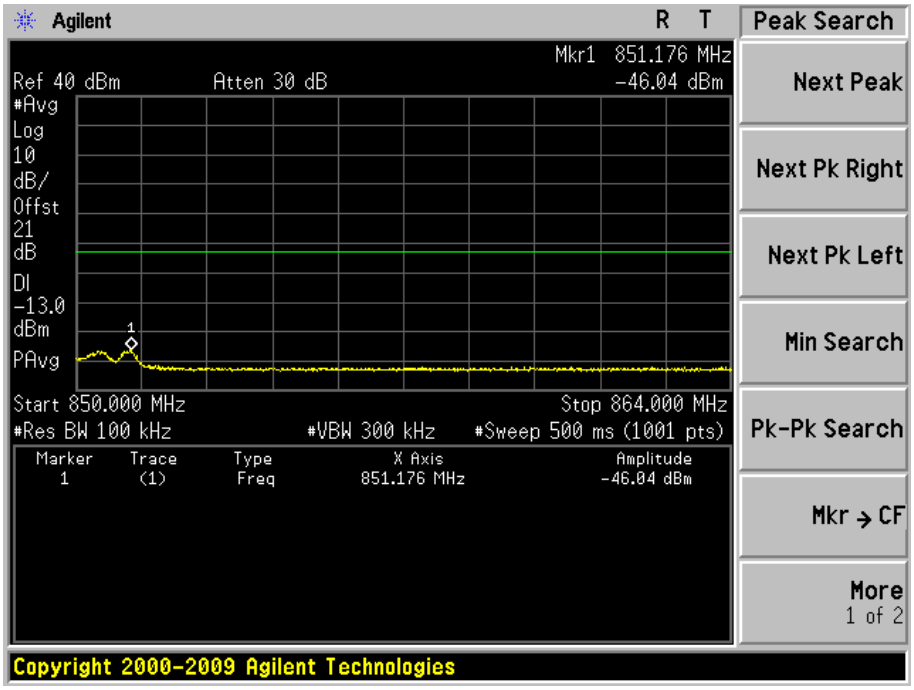

Agilent
R T
Peak Search
Mkr1 823.000 MHz
Ref 30 dBm
Atten 20 dB
-39.52 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 823.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.000 MHz -39.52 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

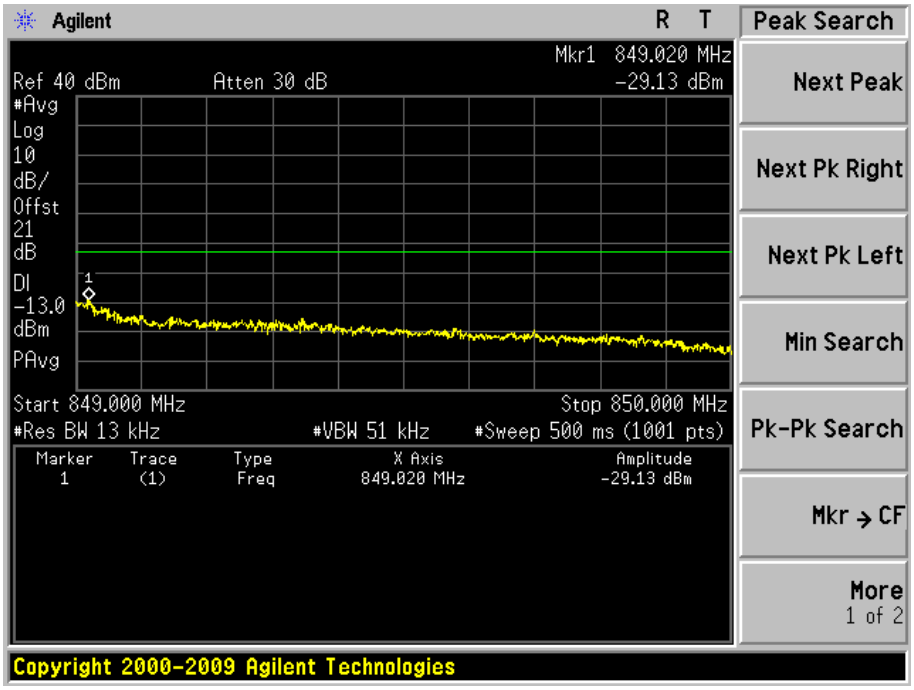
Figure Channel 26683 (1914.30MHz)

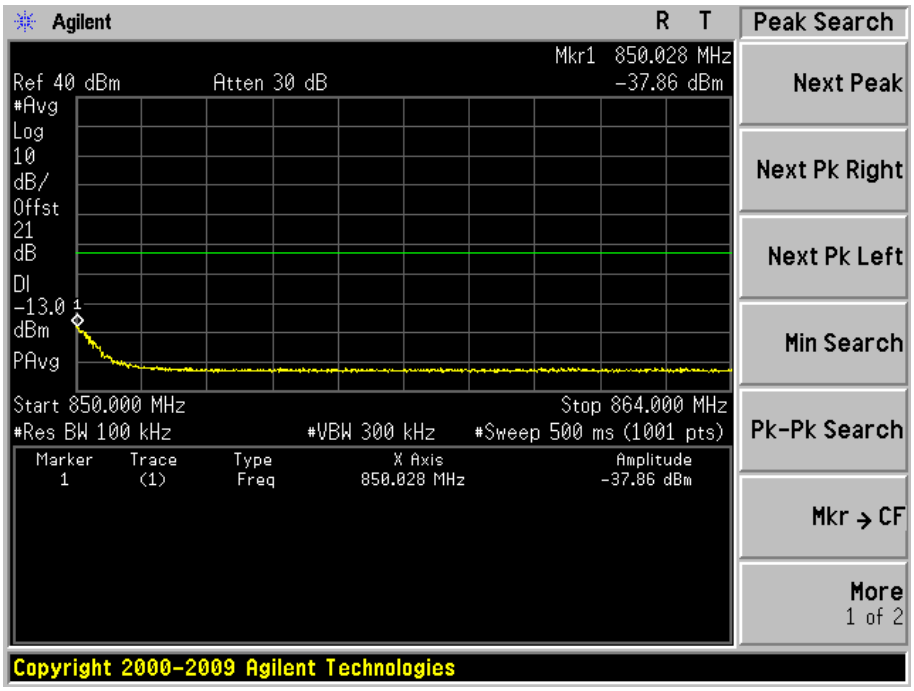
1RB6





7RB0


Agilent
R T
Peak Search
Mkr1 849.020 MHz
Ref 40 dBm
Atten 30 dB
-29.13 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
Min Search
PAvg
Start 849.000 MHz
Stop 850.000 MHz
Pk-Pk Search
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 849.020 MHz -29.13 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

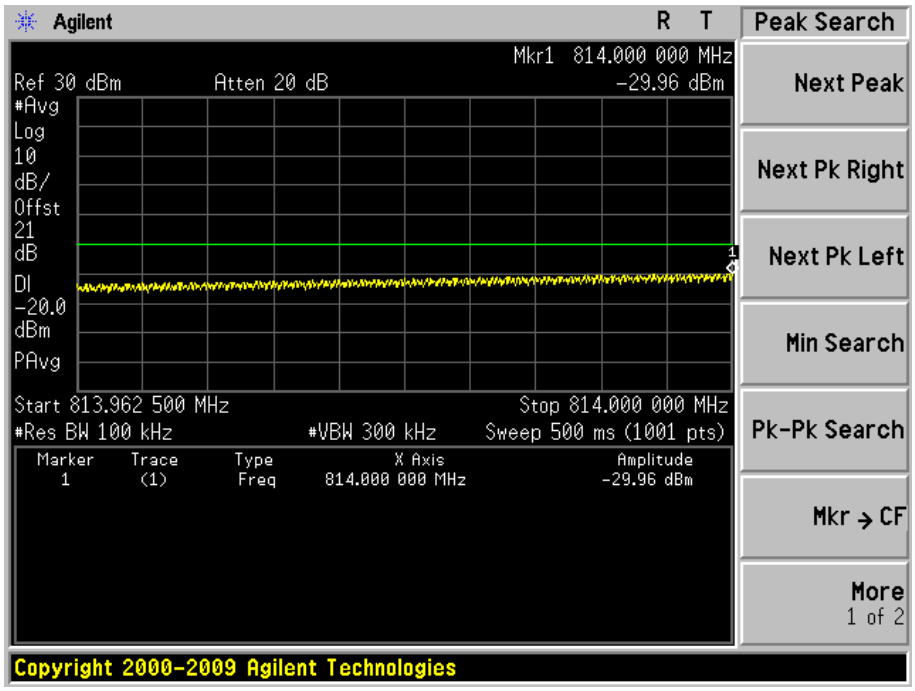

Agilent
R T
Peak Search
Mkr1 850.028 MHz
Ref 40 dBm
Atten 30 dB
-37.86 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
Min Search
PAvg
Start 850.000 MHz
Stop 864.000 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 850.028 MHz -37.86 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

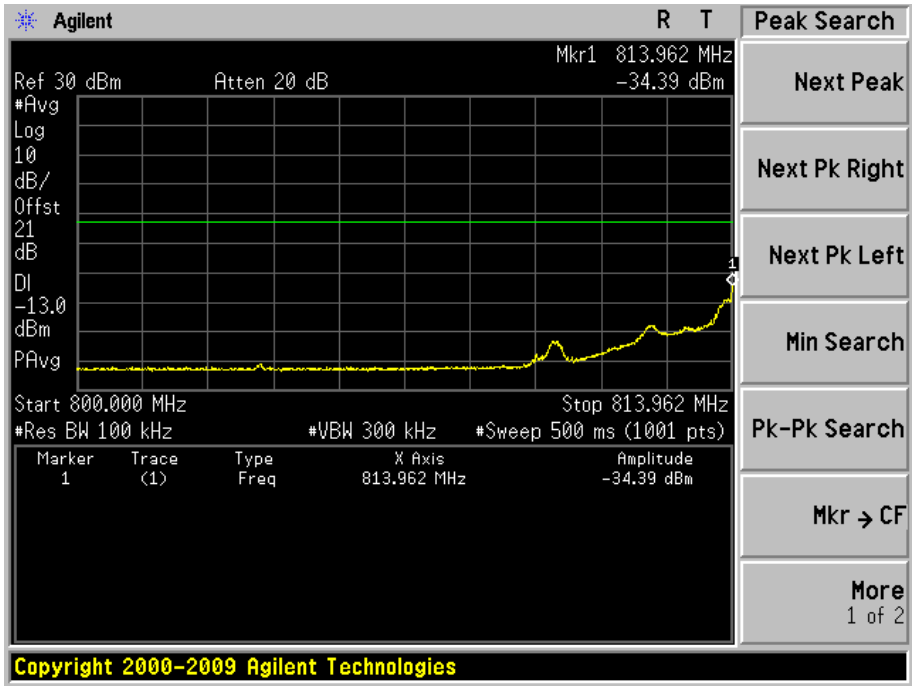
LTE Band 26 For Part 90S

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

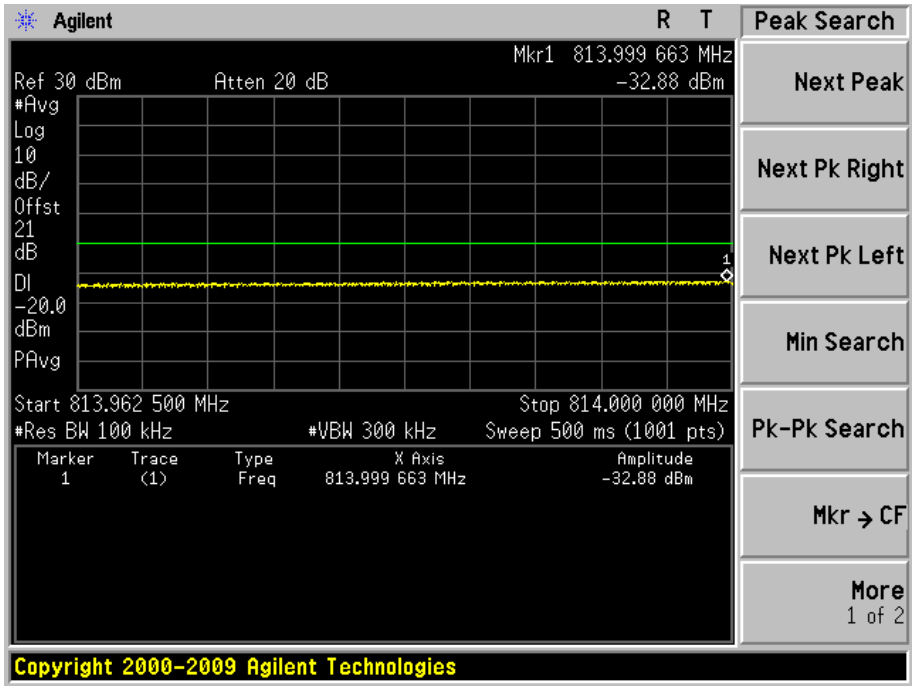
Figure Channel 26740 (819.00MHz)

1RB0





50RB0


Agilent
R T
Peak Search
Mkr1 813.999 663 MHz
Ref 30 dBm
Atten 20 dB
-32.88 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.999 663 MHz -32.88 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

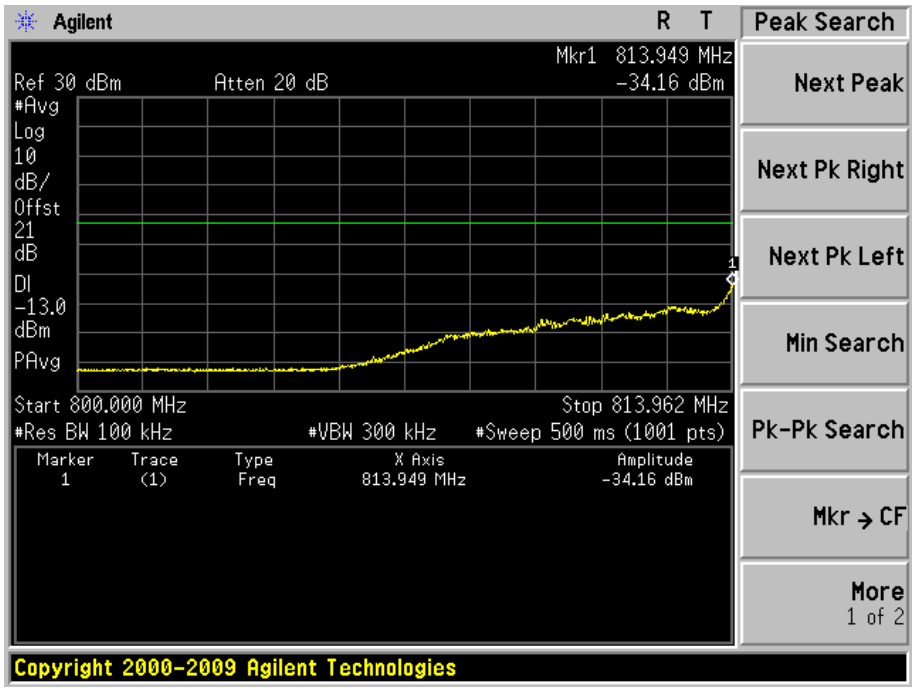
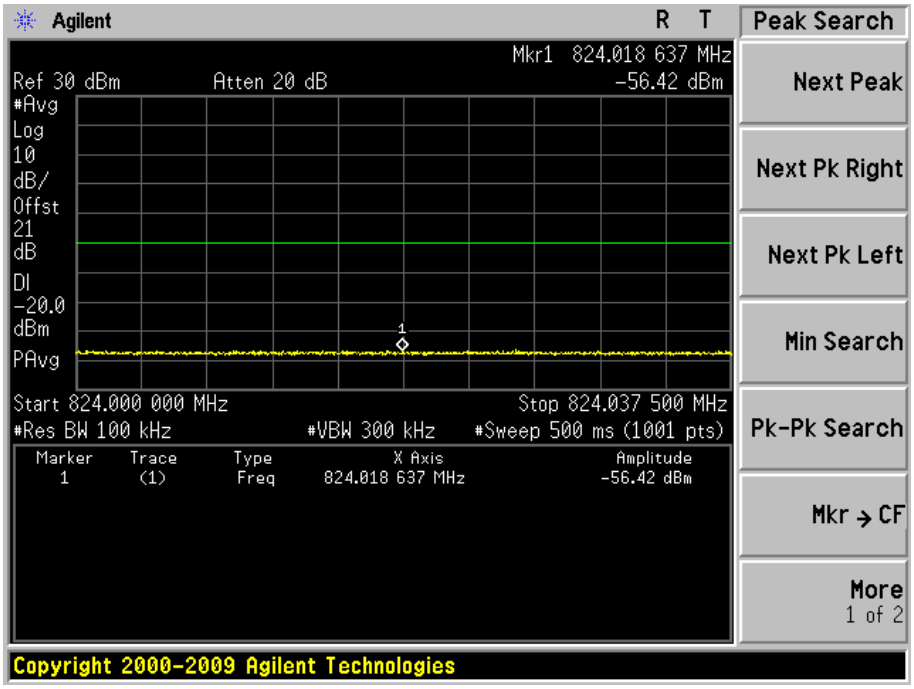
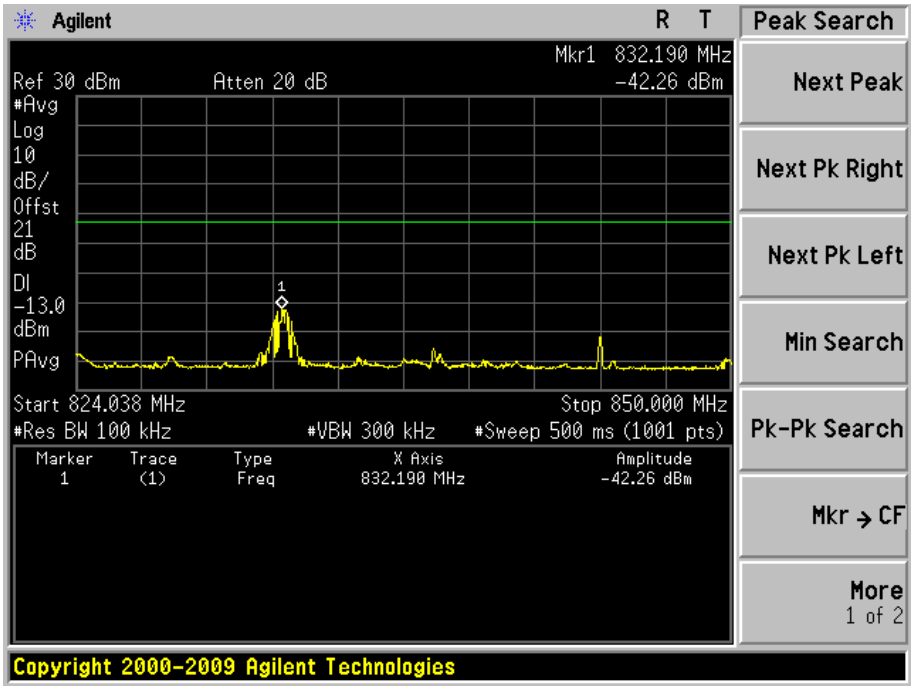

Agilent
R T
Peak Search
Mkr1 813.949 MHz
Ref 30 dBm
Atten 20 dB
-34.16 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Pk Right
Next Pk Left
Min Search
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.949 MHz -34.16 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

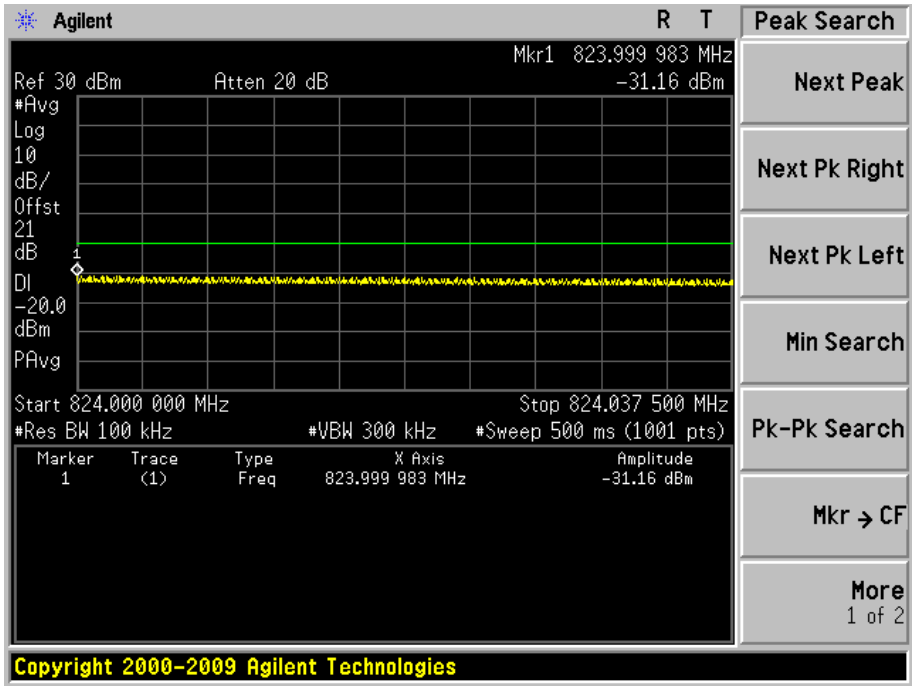
Figure Channel 26740 (819.00MHz)

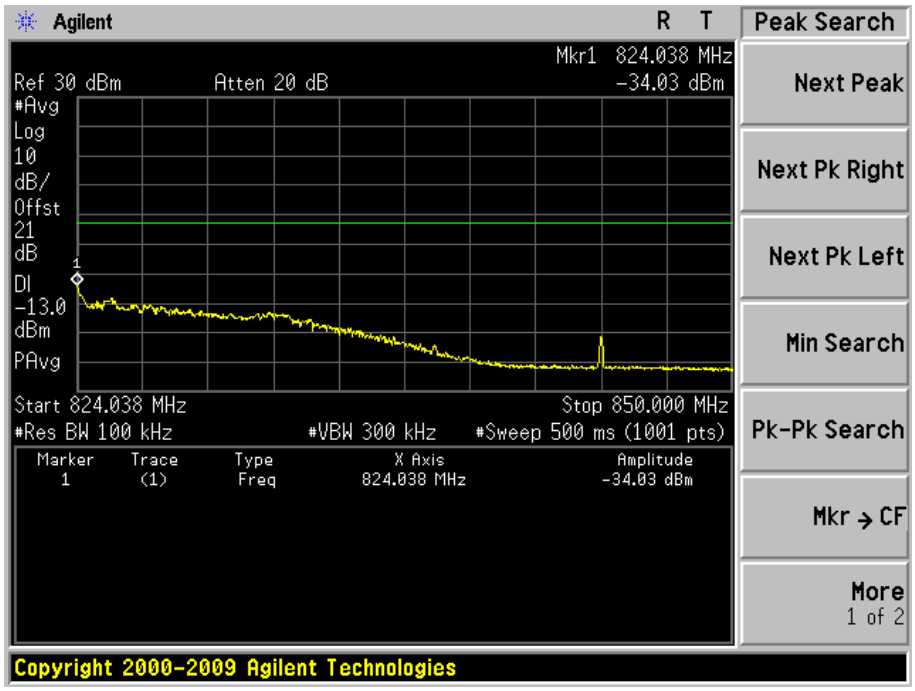
1RB0





50RB0

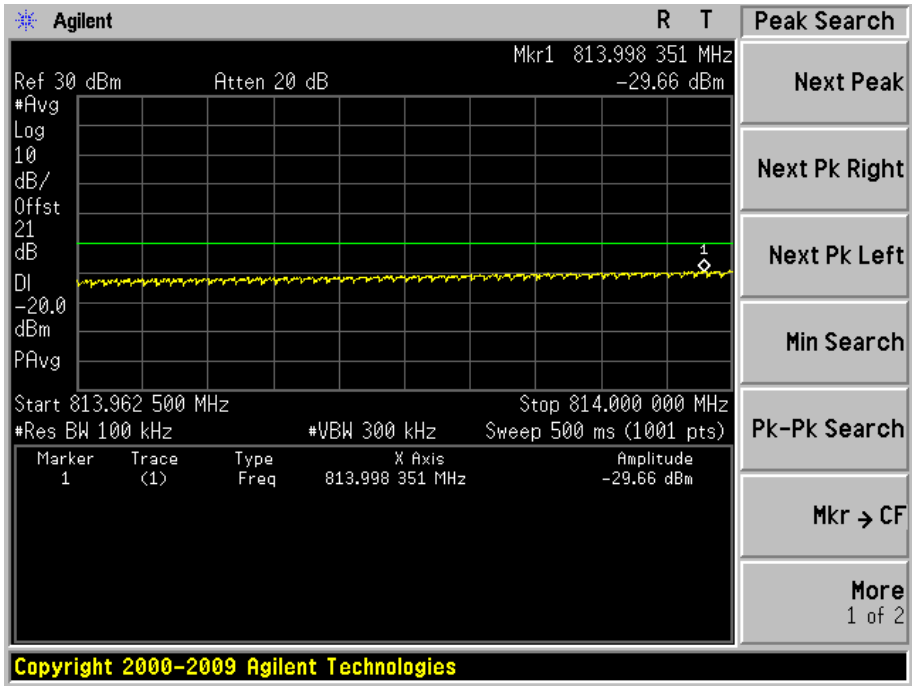

Agilent
R T
Peak Search
Mkr1 823.999 983 MHz
Ref 30 dBm
Atten 20 dB
-31.16 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 823.999 983 MHz -31.16 dBm
Copyright 2000-2009 Agilent Technologies

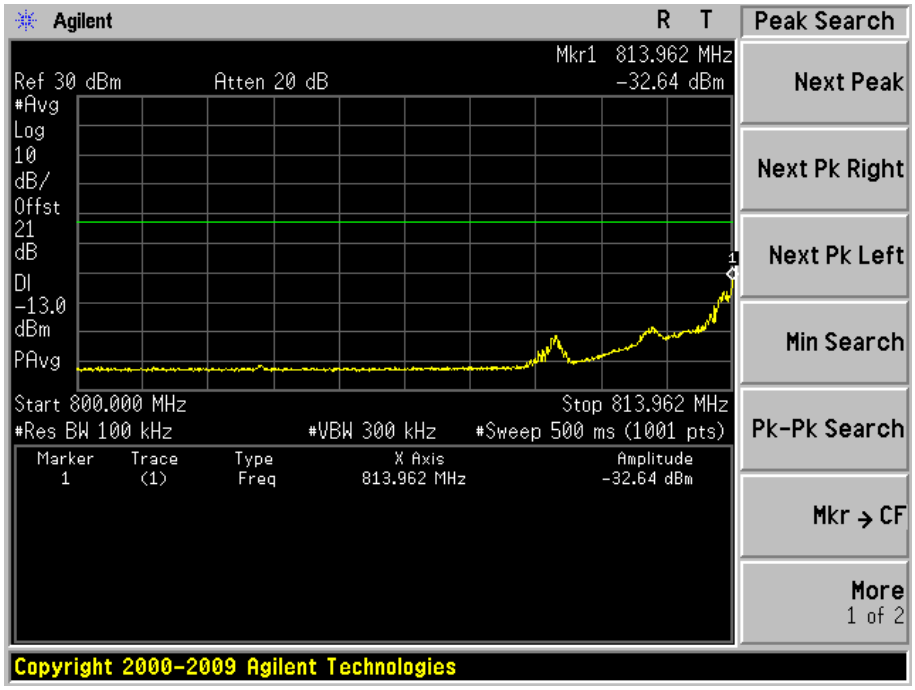

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 30 dBm
Atten 20 dB
-34.03 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -34.03 dBm
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

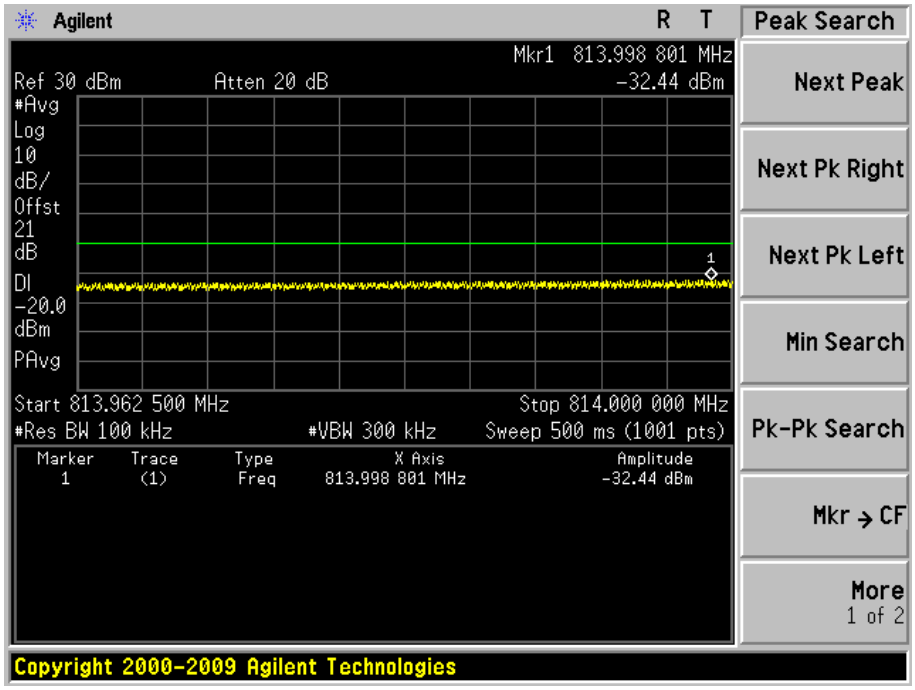
Figure Channel 26740 (819.00MHz)

1RB0





50RB0


Agilent
R T
Peak Search
Mkr1 813.998 801 MHz
Ref 30 dBm
Atten 20 dB
-32.44 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-20.0
dBm
Next Pk Left
PAvg
Min Search
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.998 801 MHz -32.44 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

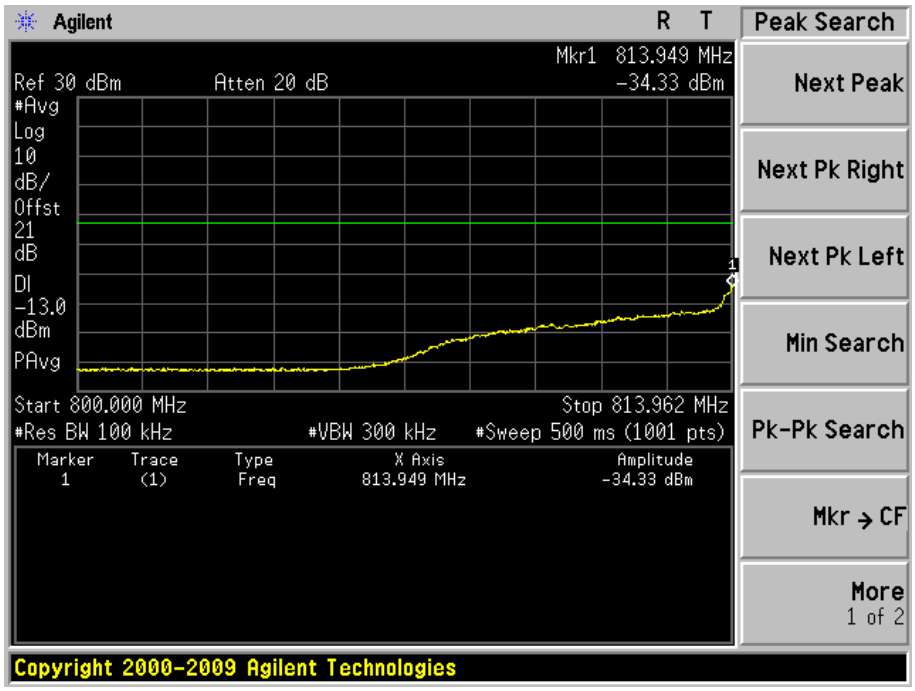
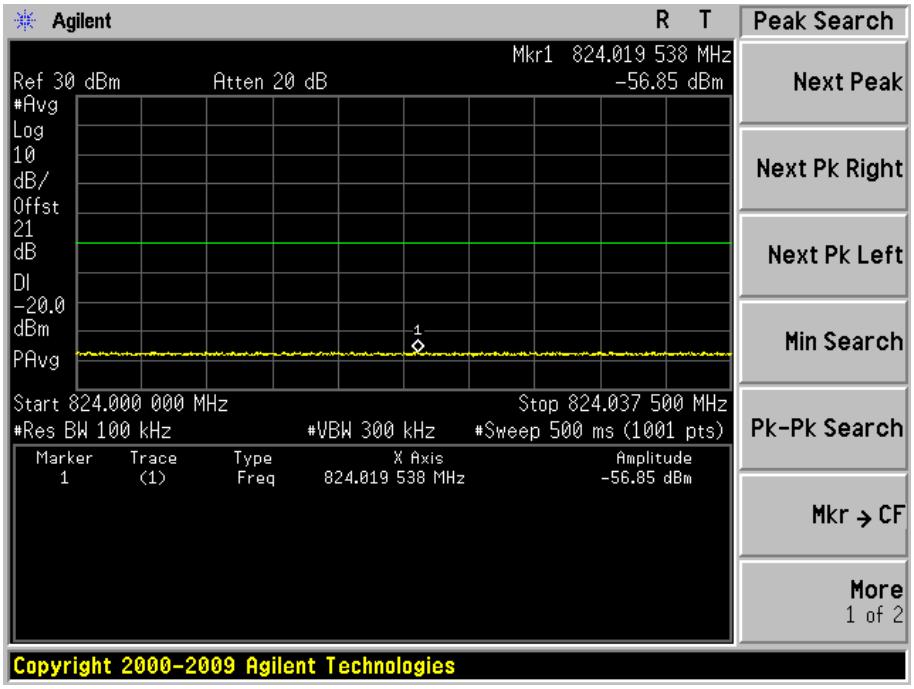
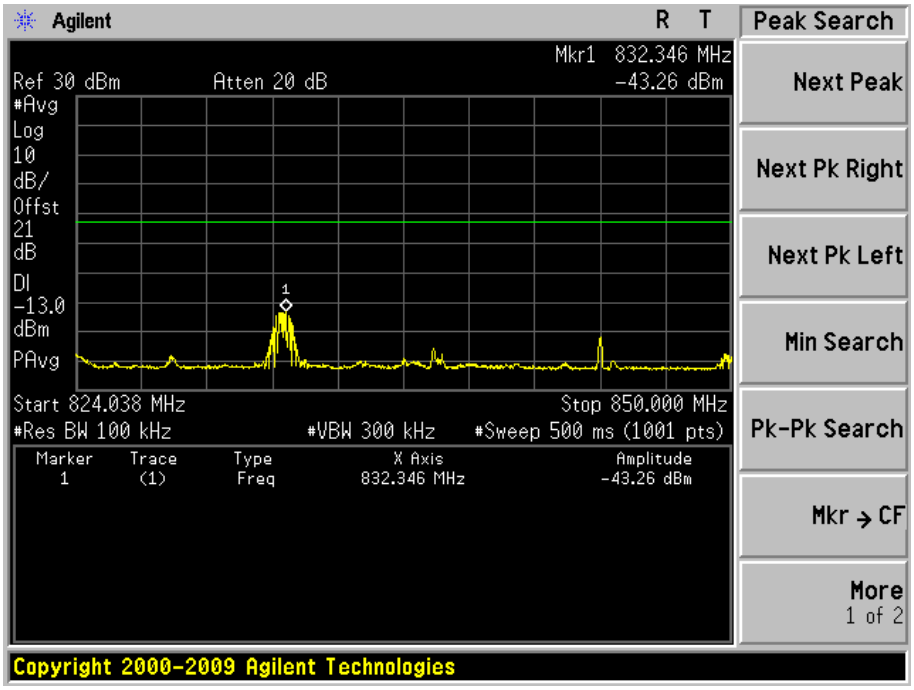

Agilent
R T
Peak Search
Mkr1 813.949 MHz
Ref 30 dBm
Atten 20 dB
-34.33 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
Next Pk Left
PAvg
Min Search
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.949 MHz -34.33 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

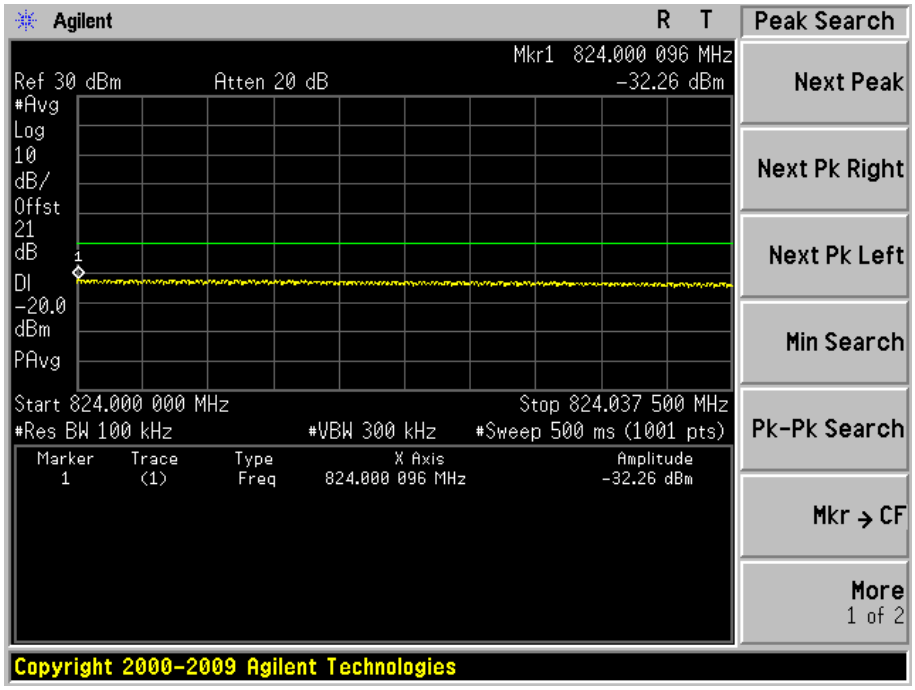
Figure Channel 26740 (819.00MHz)

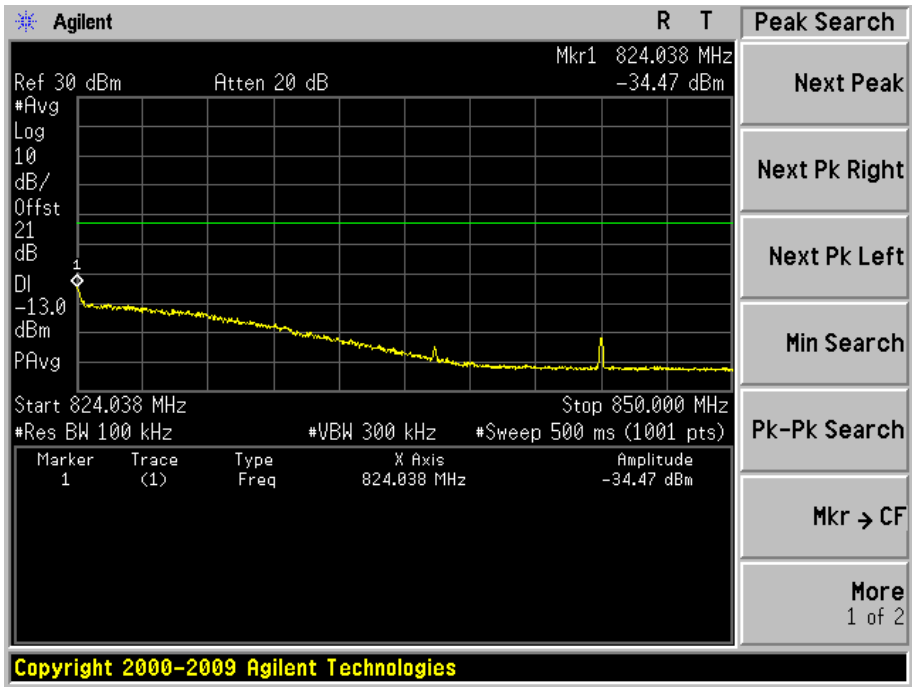
1RB0





50RB0

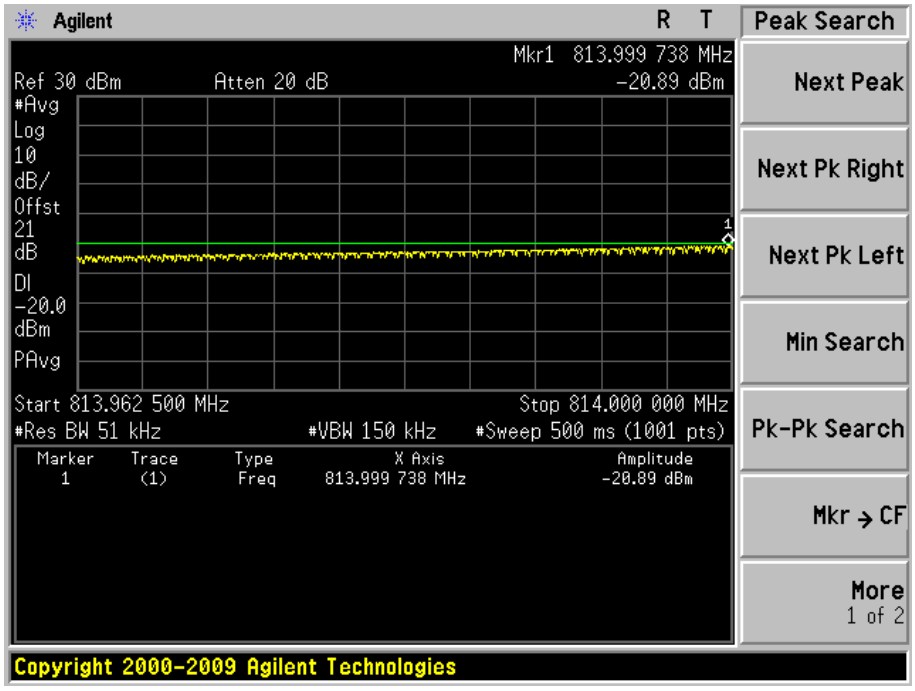

Agilent
R T
Peak Search
Mkr1 824.000 096 MHz
Ref 30 dBm
Atten 20 dB
-32.26 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 096 MHz -32.26 dBm
Copyright 2000-2009 Agilent Technologies

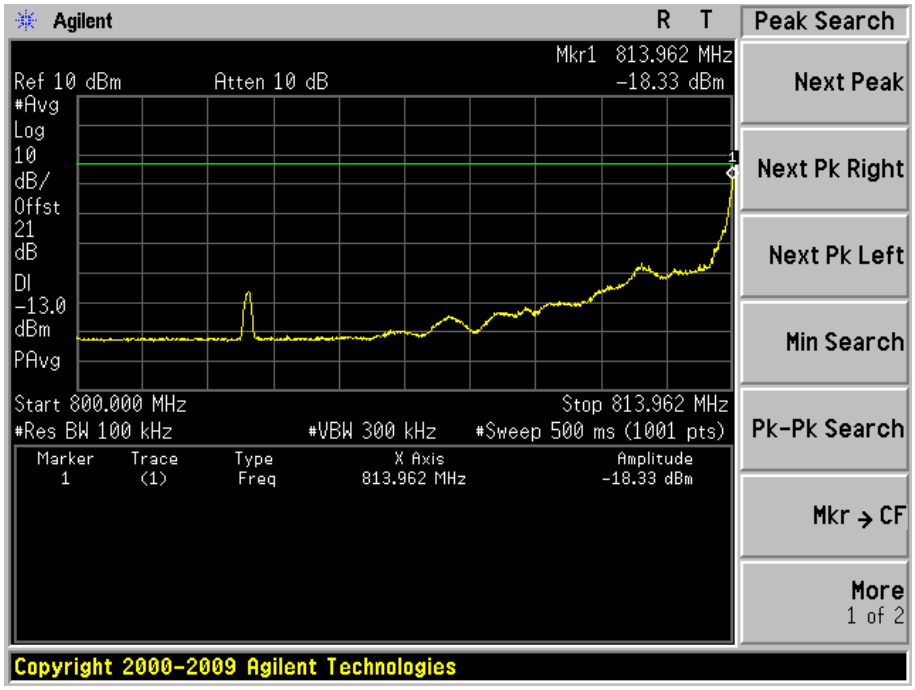

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 30 dBm
Atten 20 dB
-34.47 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -34.47 dBm
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (5M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

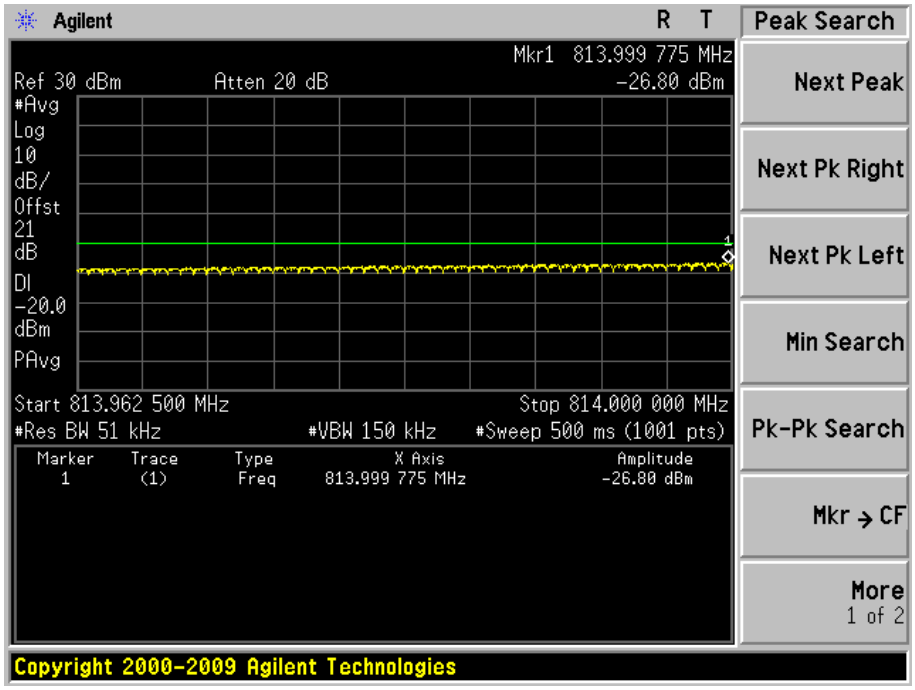
Figure Channel 26715 (816.5MHz)

1RB0





25RB0


Agilent
R T
Peak Search
Mkr1 813.999 775 MHz
Ref 30 dBm
Atten 20 dB
-26.80 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.999 775 MHz -26.80 dBm
Copyright 2000-2009 Agilent Technologies

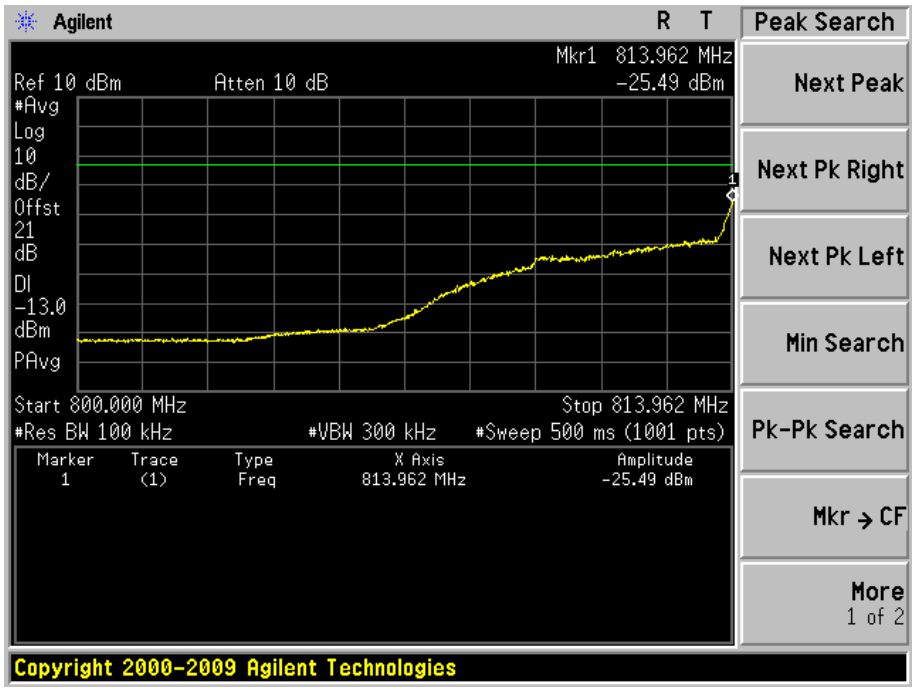
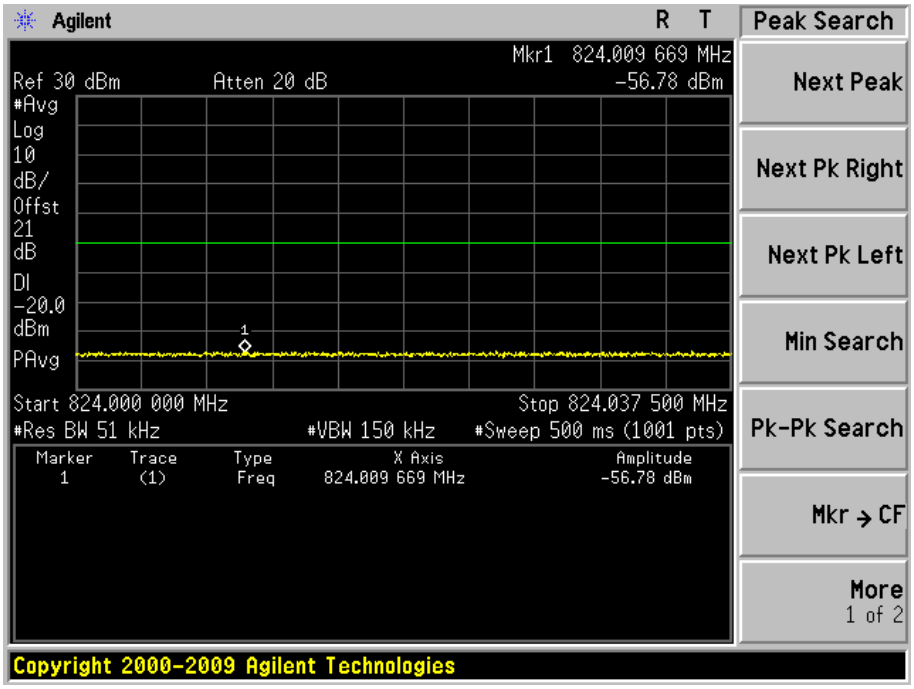
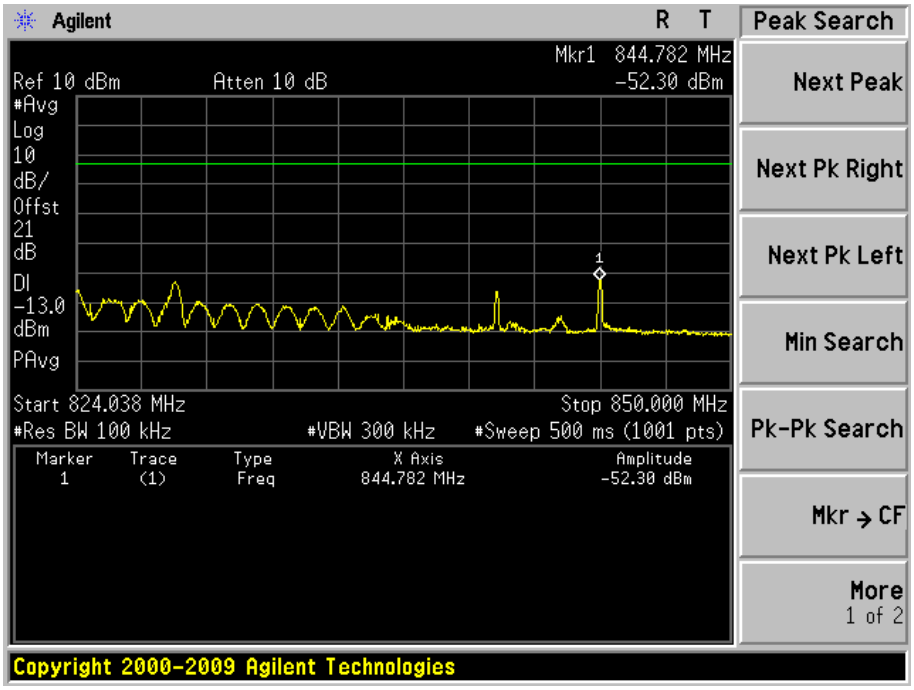

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-25.49 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -25.49 dBm
Copyright 2000-2009 Agilent Technologies

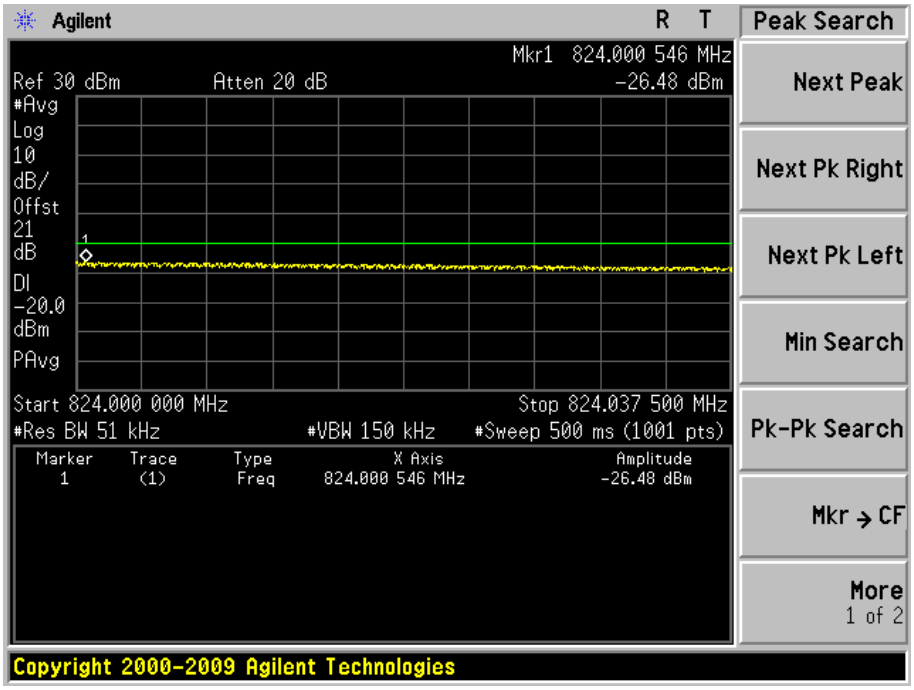
Figure Channel 26765 (821.50MHz)

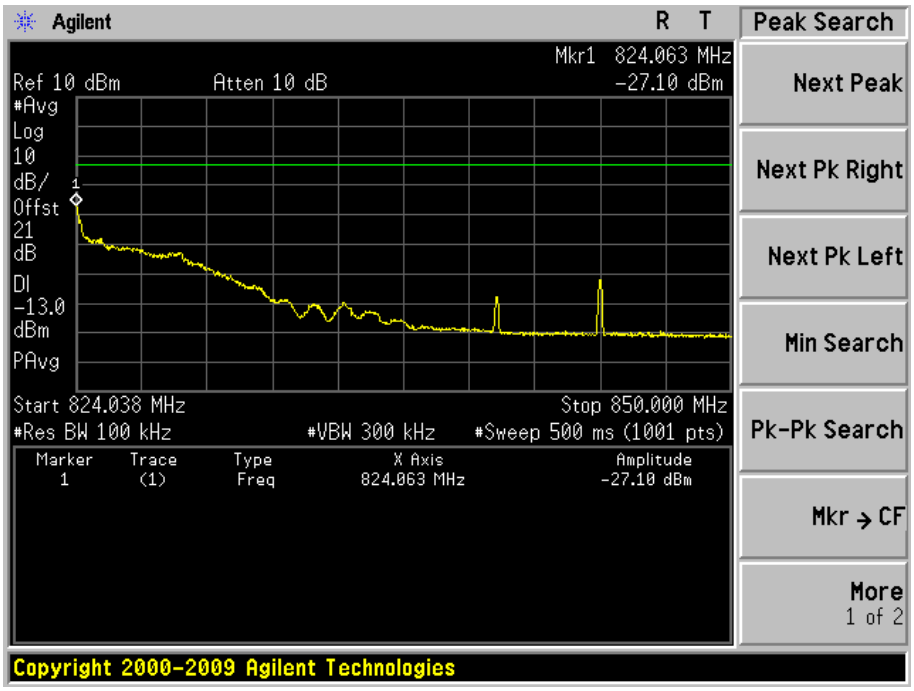
1RB24





25RB0

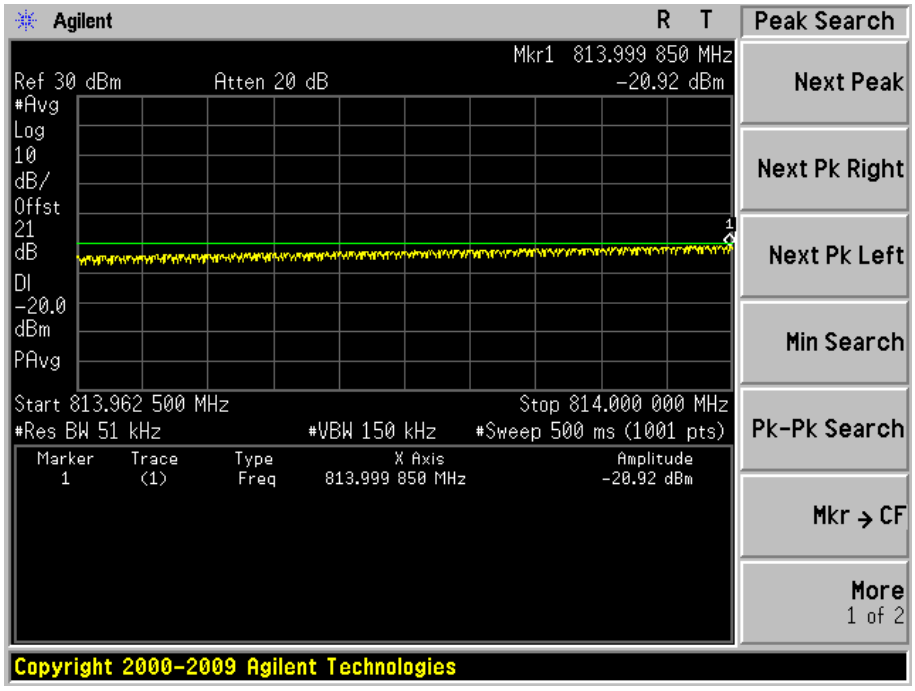

Agilent
R T
Peak Search
Mkr1 824.000 546 MHz
Ref 30 dBm
Atten 20 dB
-26.48 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-20.0
dBm
PAvg
Min Search
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 546 MHz -26.48 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

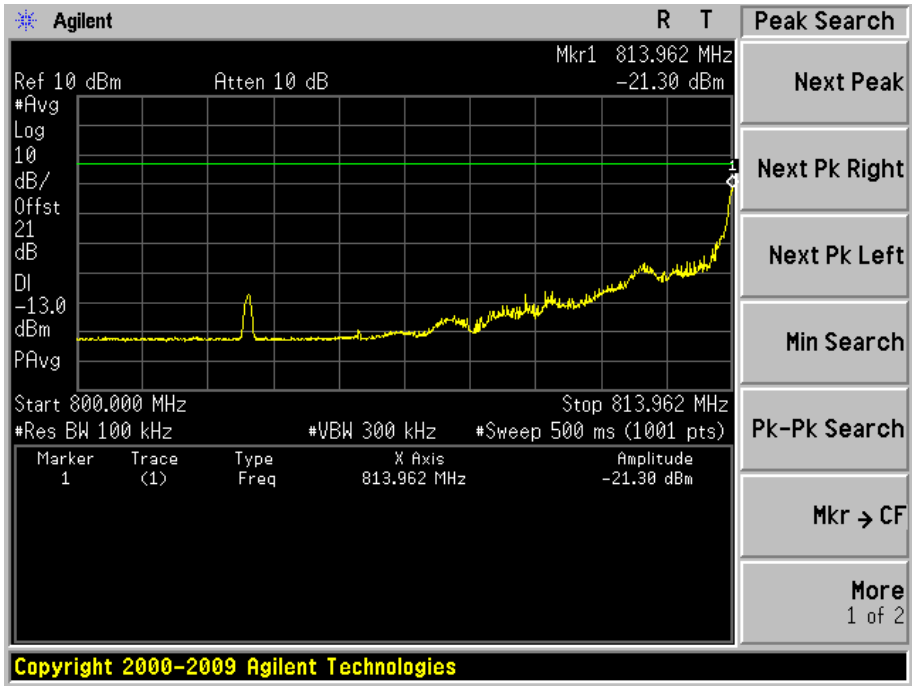

Agilent
R T
Peak Search
Mkr1 824.063 MHz
Ref 10 dBm
Atten 10 dB
-27.10 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
PAvg
Min Search
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.063 MHz -27.10 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

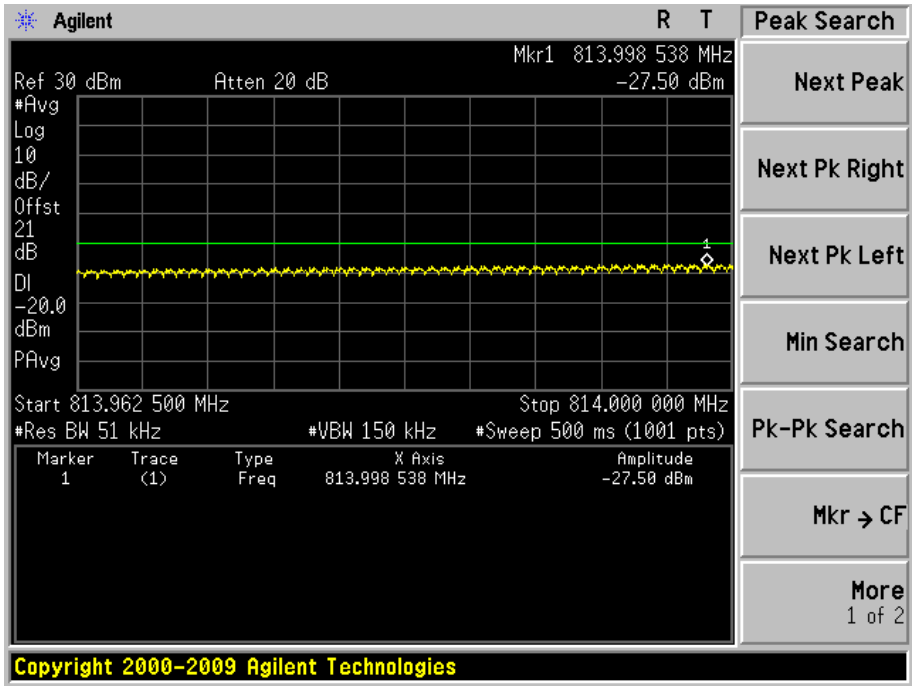
Figure Channel 26715 (816.5MHz)

1RB0





25RB0


Agilent
R T
Peak Search
Mkr1 813.998 538 MHz
Ref 30 dBm
Atten 20 dB
-27.50 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-20.0
dBm
PAvg
Next Pk Left
Min Search
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.998 538 MHz -27.50 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

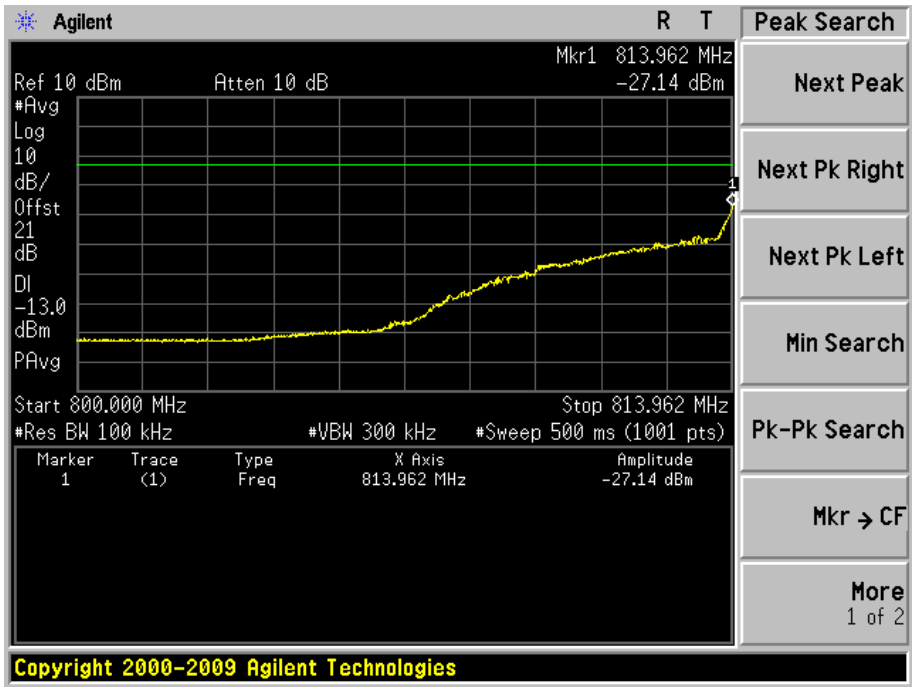
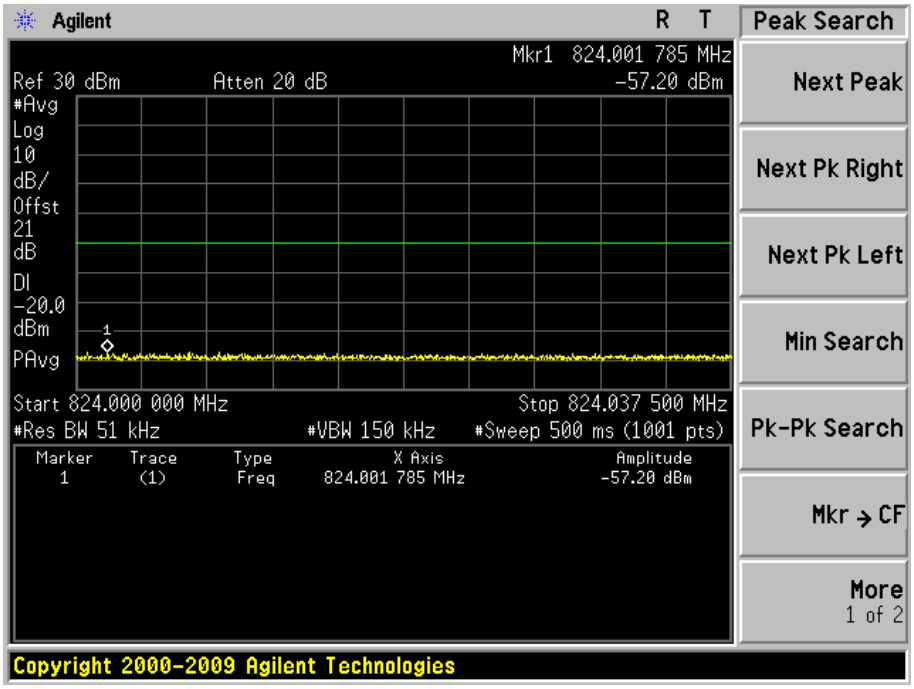
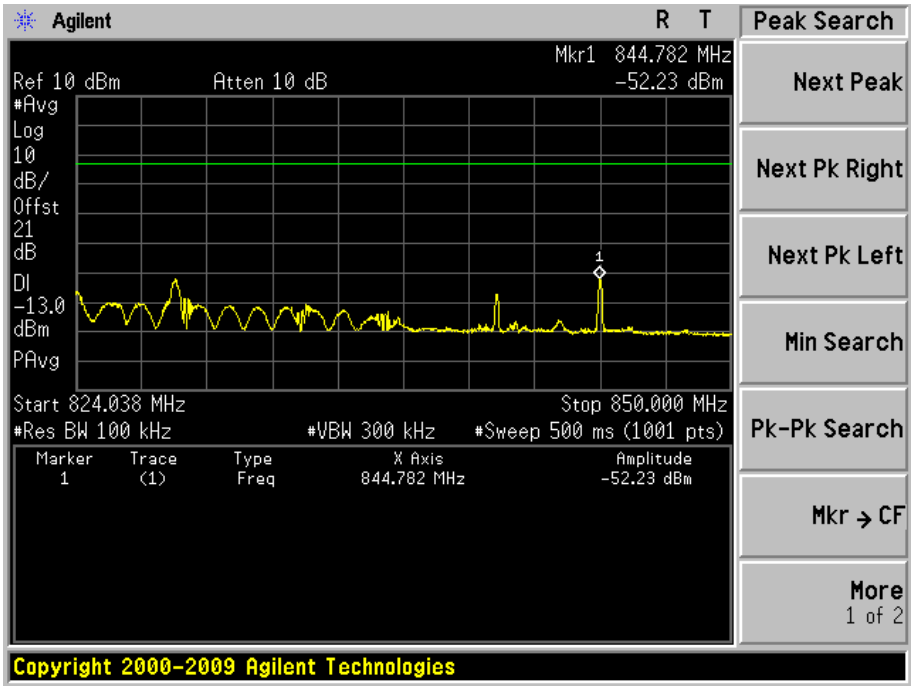

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-27.14 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Dl
-13.0
dBm
PAvg
Next Pk Left
Min Search
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -27.14 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

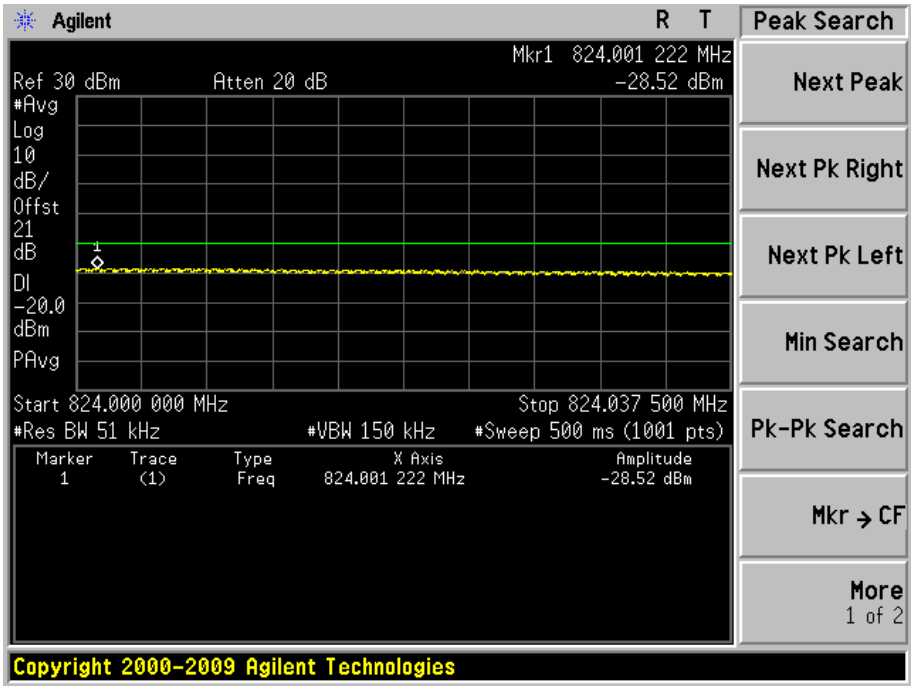
Figure Channel 26765 (821.50MHz)

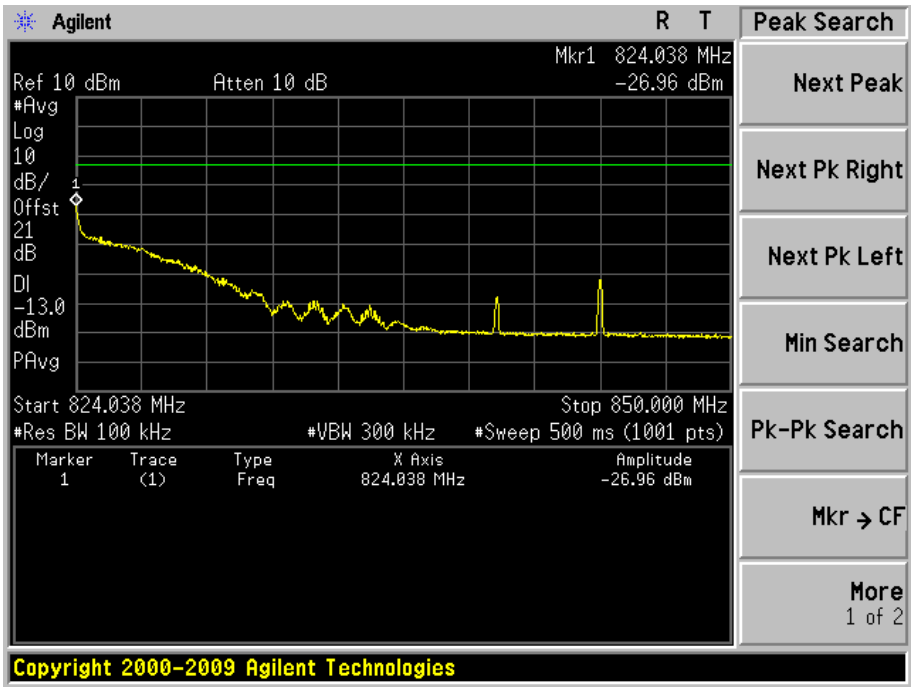
1RB24





25RB0

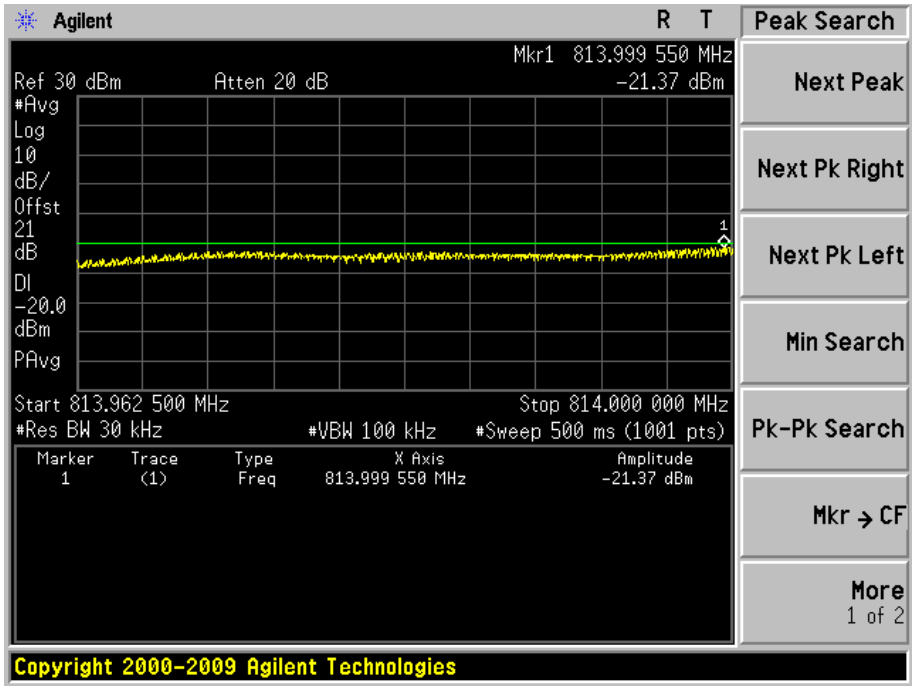

Agilent
R T
Peak Search
Mkr1 824.001 222 MHz
Ref 30 dBm
Atten 20 dB
-28.52 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-20.0
dBm
PAvg
Min Search
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 51 kHz
#VBW 150 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.001 222 MHz -28.52 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

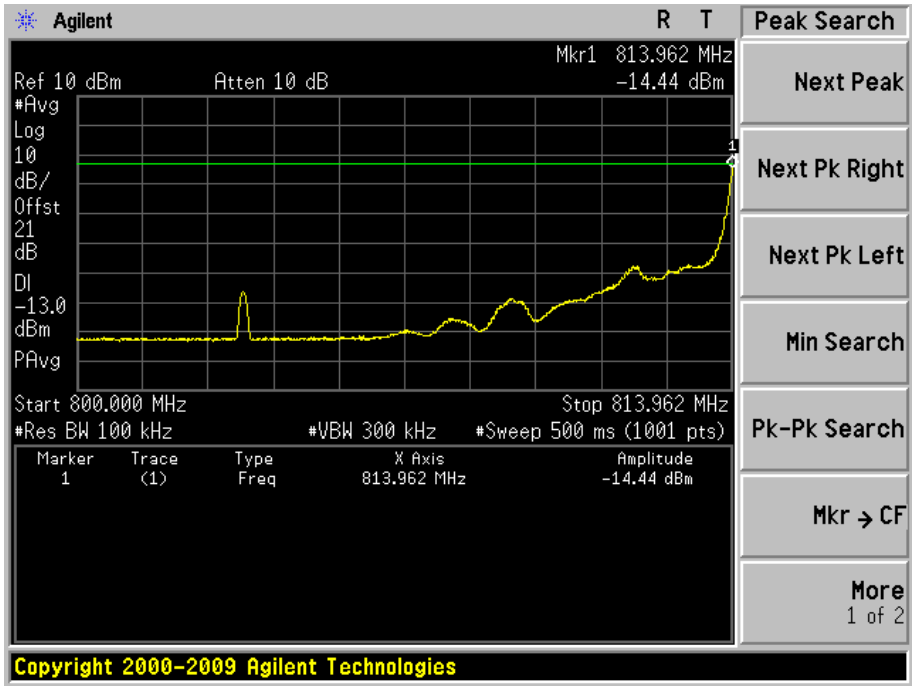

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 10 dBm
Atten 10 dB
-26.96 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
PAvg
Min Search
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -26.96 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (3M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

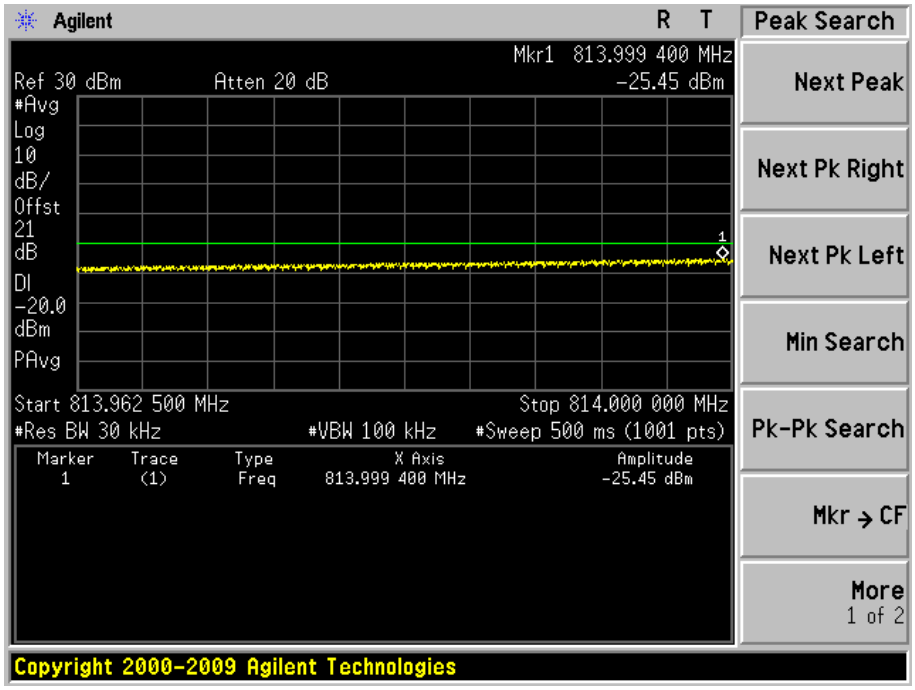
Figure Channel 26705 (815.50MHz)

1RB0





15RB0


Agilent
R T
Peak Search
Mkr1 813.999 400 MHz
Ref 30 dBm
Atten 20 dB
-25.45 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.999 400 MHz -25.45 dBm
Copyright 2000-2009 Agilent Technologies

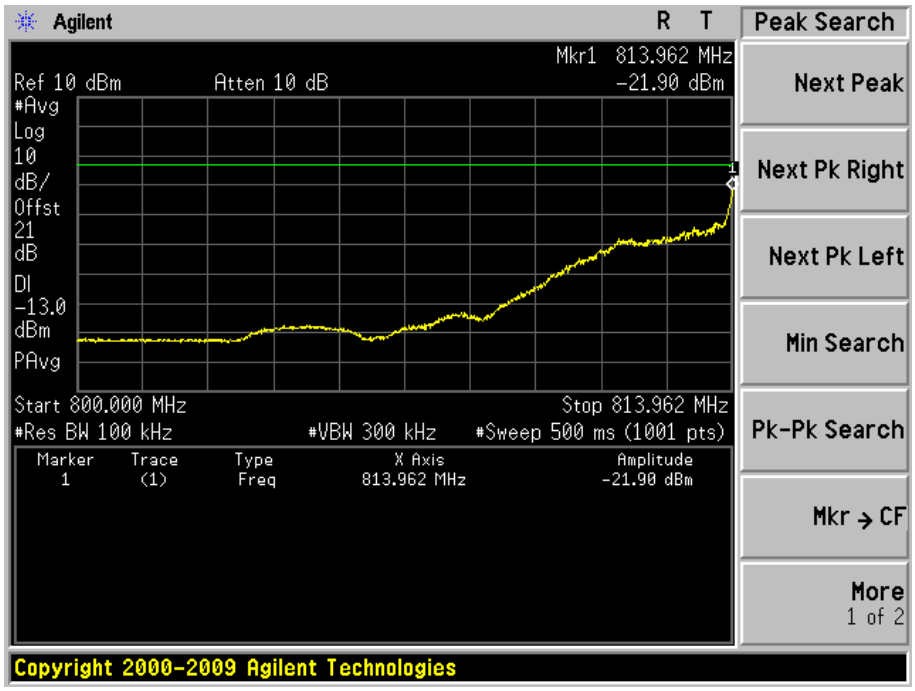
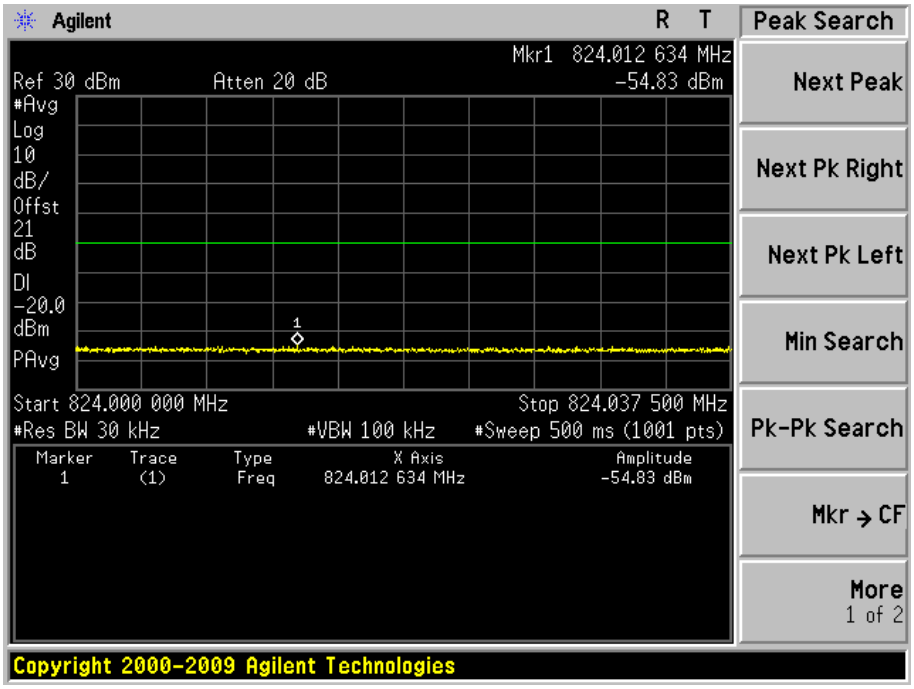
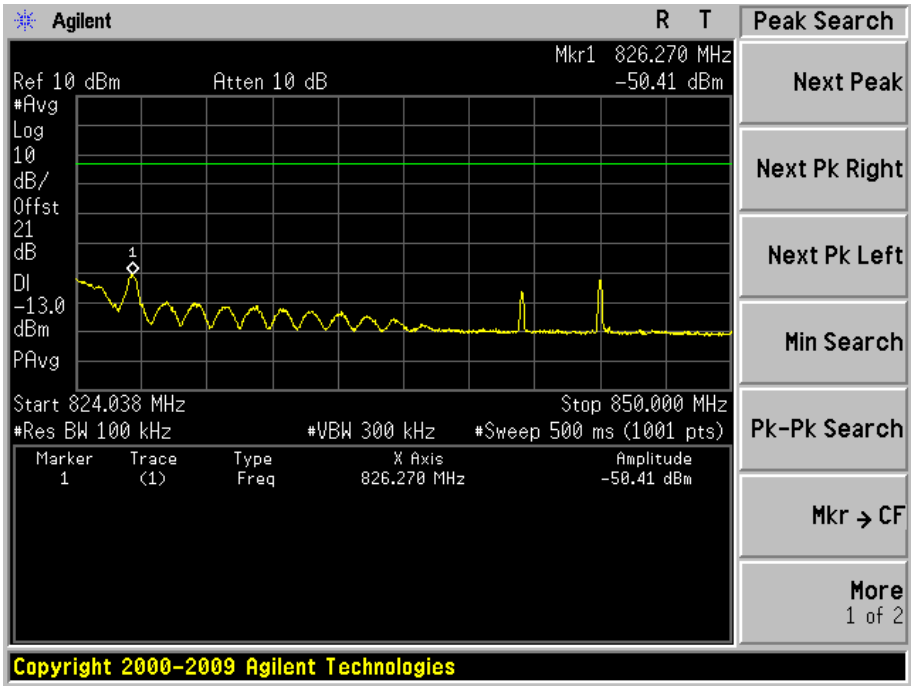

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-21.90 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -21.90 dBm
Copyright 2000-2009 Agilent Technologies

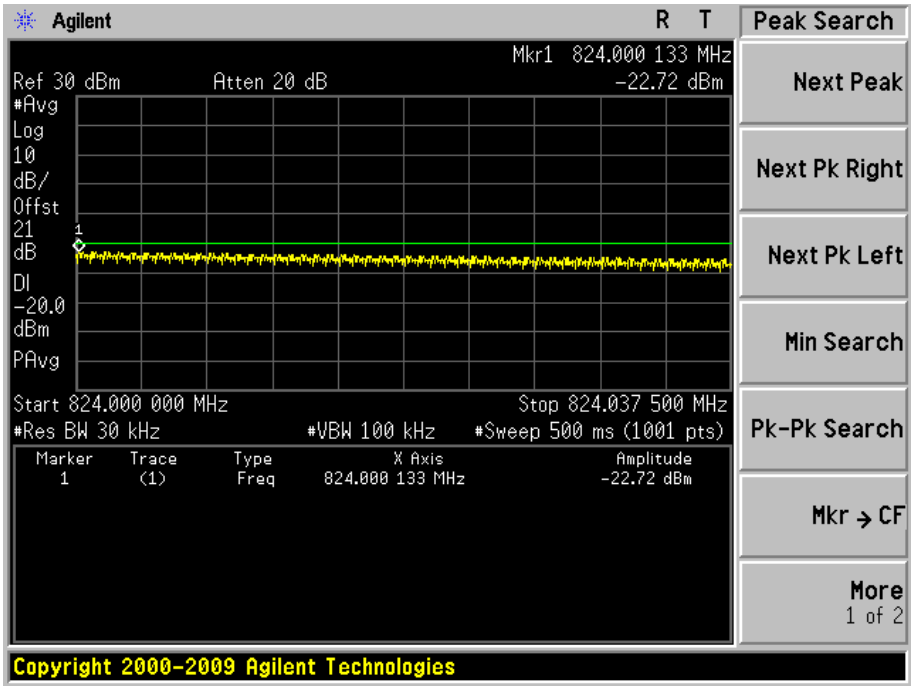
Figure Channel 26775 (822.50MHz)

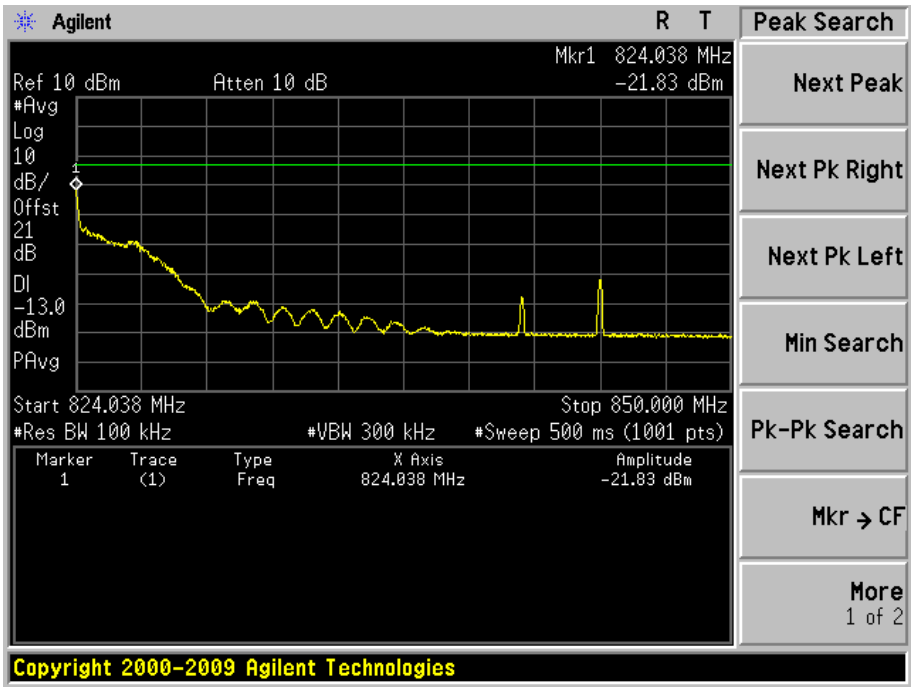
1RB14





15RB0

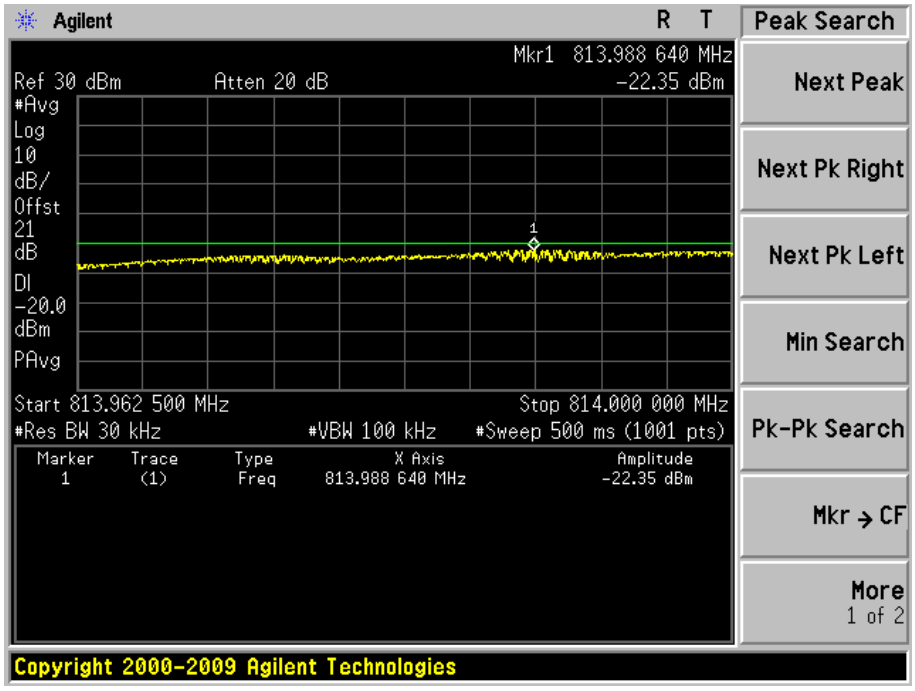

Agilent
R T
Peak Search
Mkr1 824.000 133 MHz
Ref 30 dBm
Atten 20 dB
-22.72 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 133 MHz -22.72 dBm
Copyright 2000-2009 Agilent Technologies

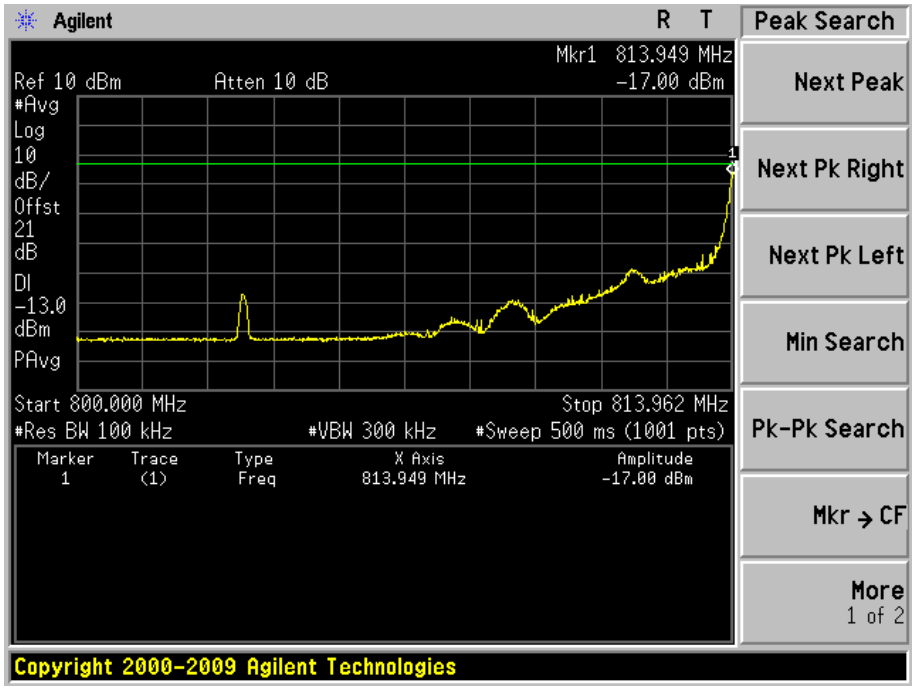

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 10 dBm
Atten 10 dB
-21.83 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -21.83 dBm
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

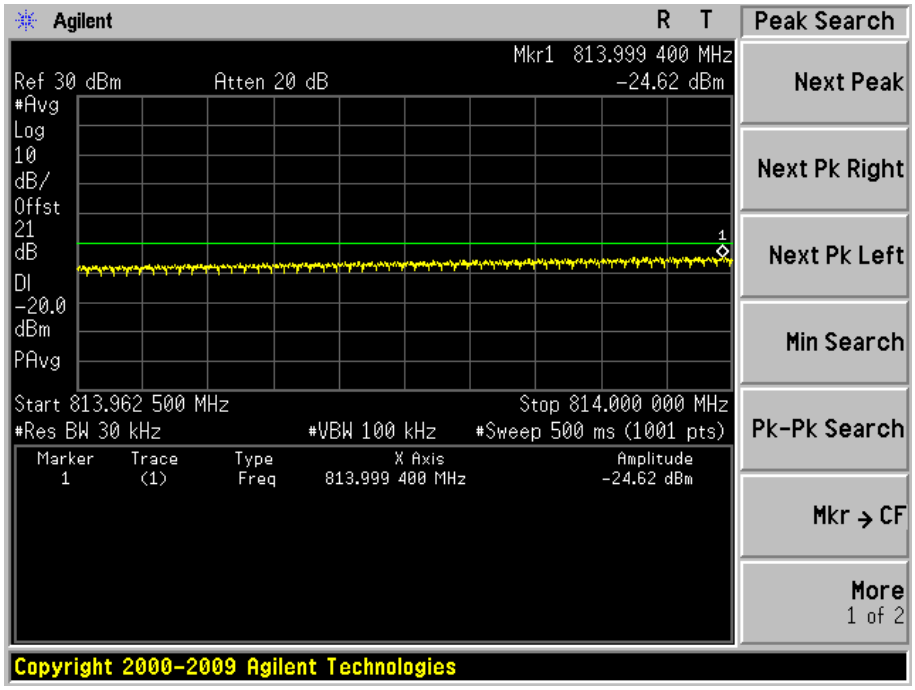
Figure Channel 26705 (815.50MHz)

1RB0





15RB0


Agilent
R T
Peak Search
Mkr1 813.999 400 MHz
Ref 30 dBm
Atten 20 dB
-24.62 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.999 400 MHz -24.62 dBm
Copyright 2000-2009 Agilent Technologies

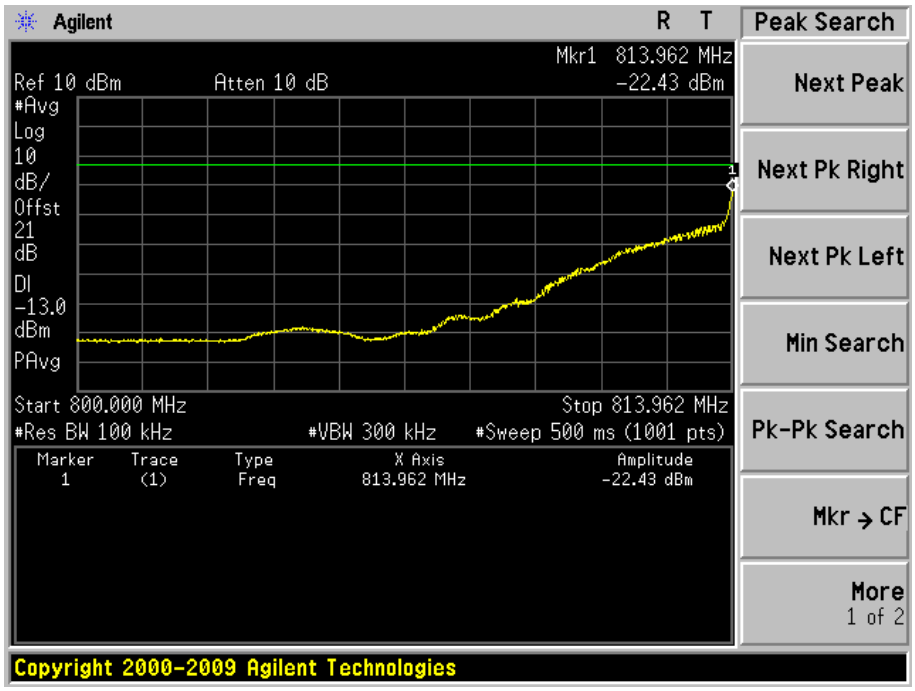
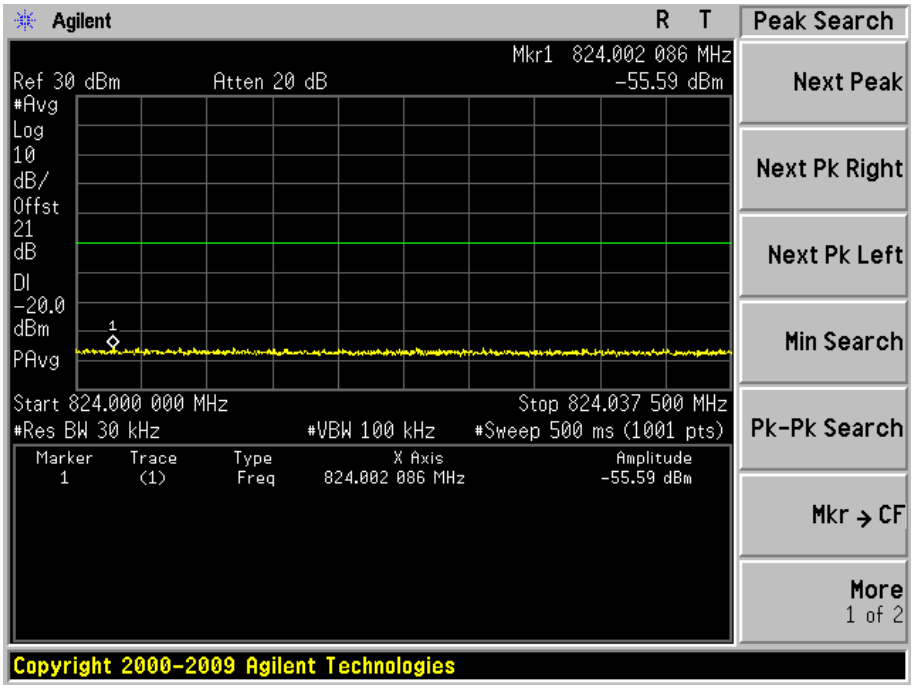
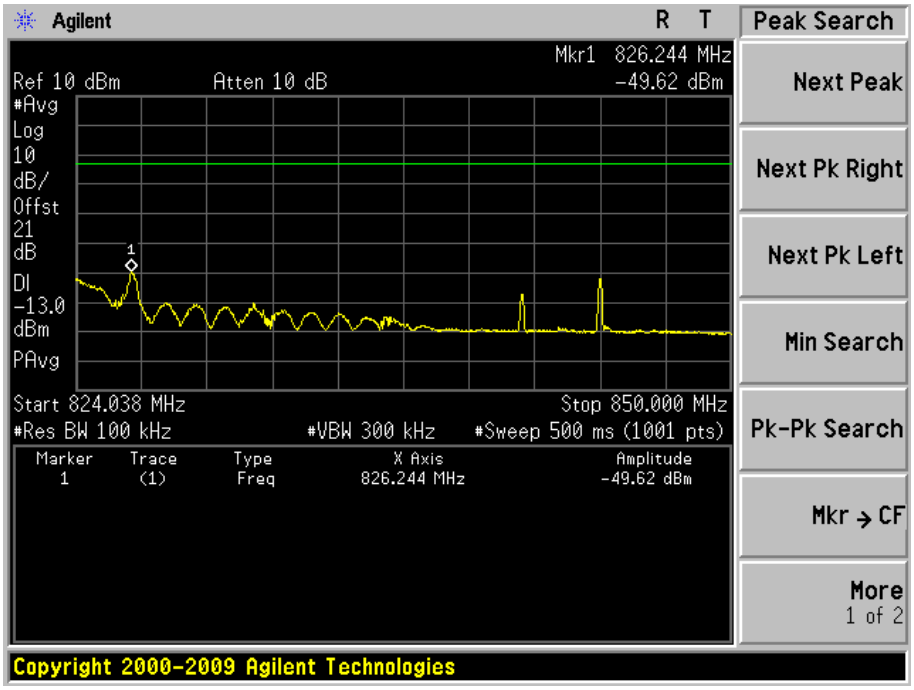

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-22.43 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -22.43 dBm
Copyright 2000-2009 Agilent Technologies

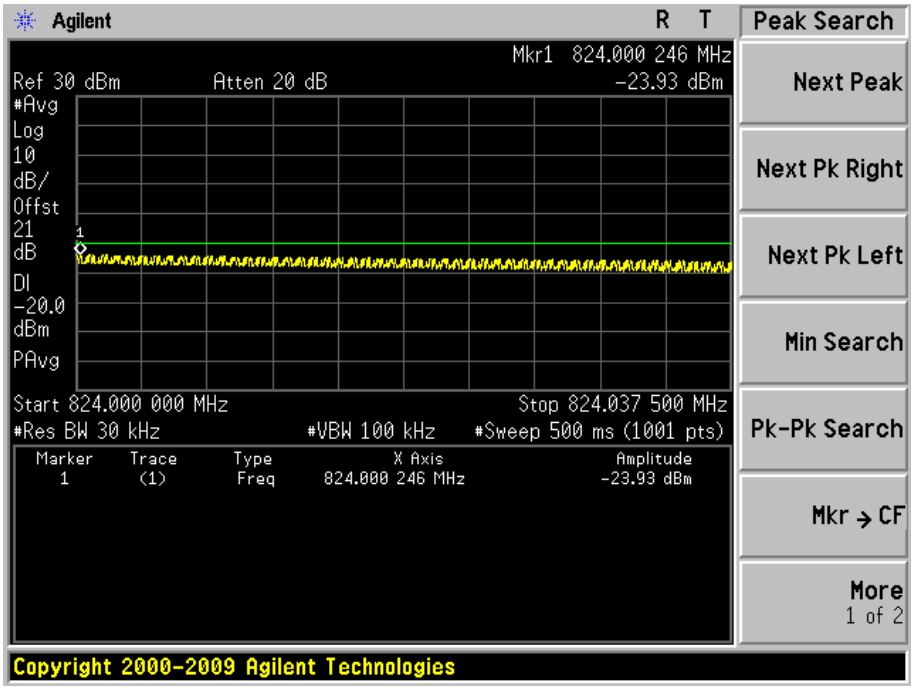
Figure Channel 26775 (822.50MHz)

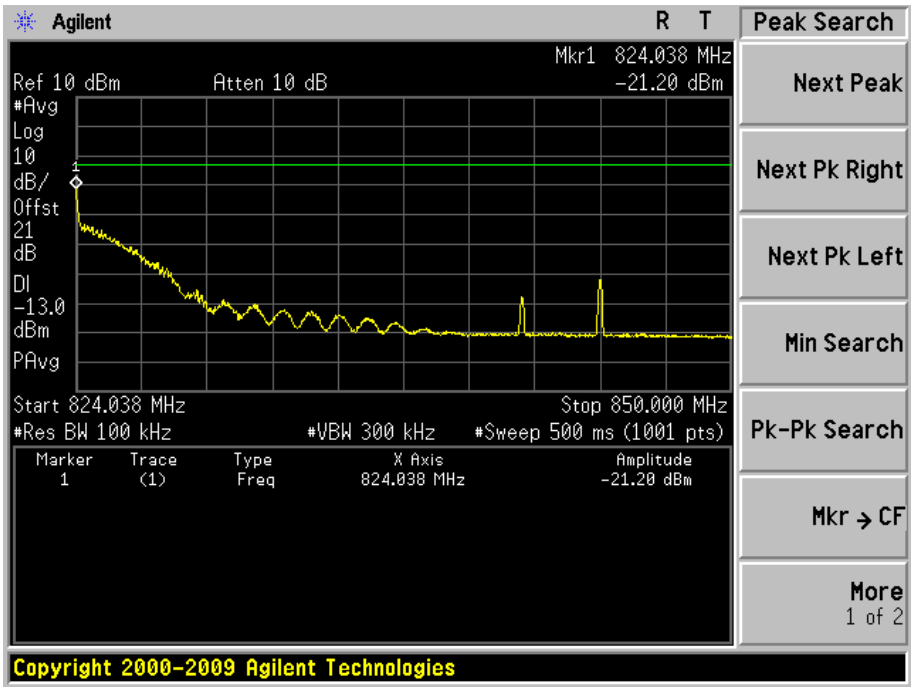
1RB14





15RB0

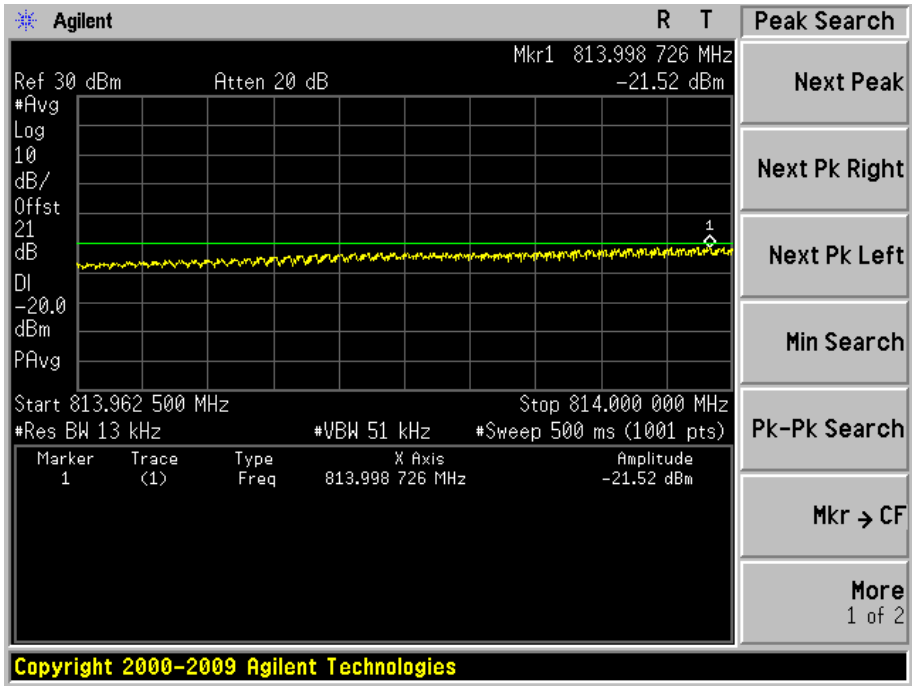

Agilent
R T
Peak Search
Mkr1 824.000 246 MHz
Ref 30 dBm
Atten 20 dB
-23.93 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-20.0
dBm
PAvg
Min Search
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 30 kHz
#VBW 100 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 246 MHz -23.93 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

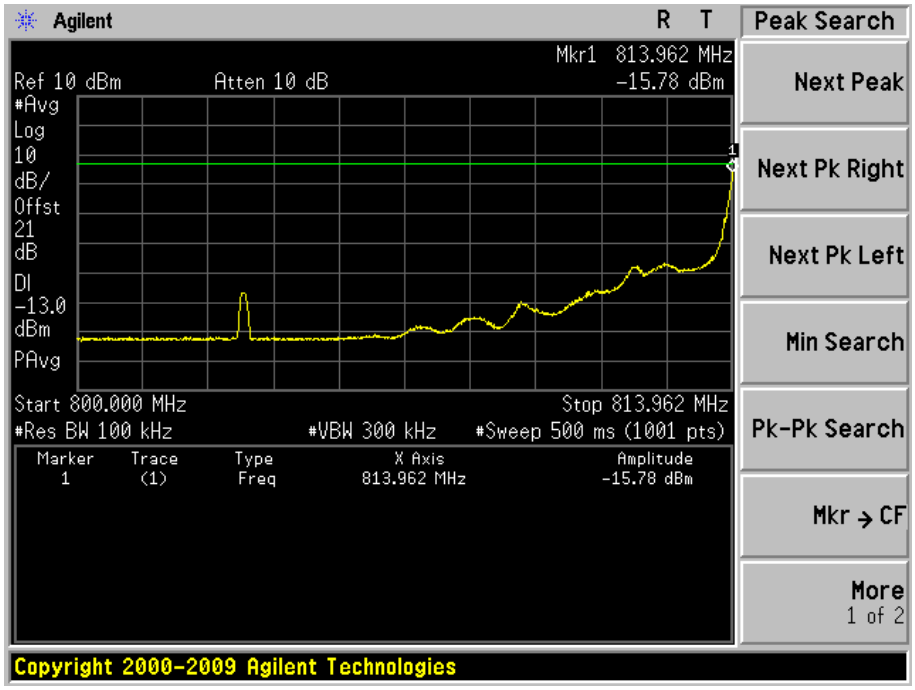

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 10 dBm
Atten 10 dB
-21.20 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
PAvg
Min Search
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -21.20 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	AC6

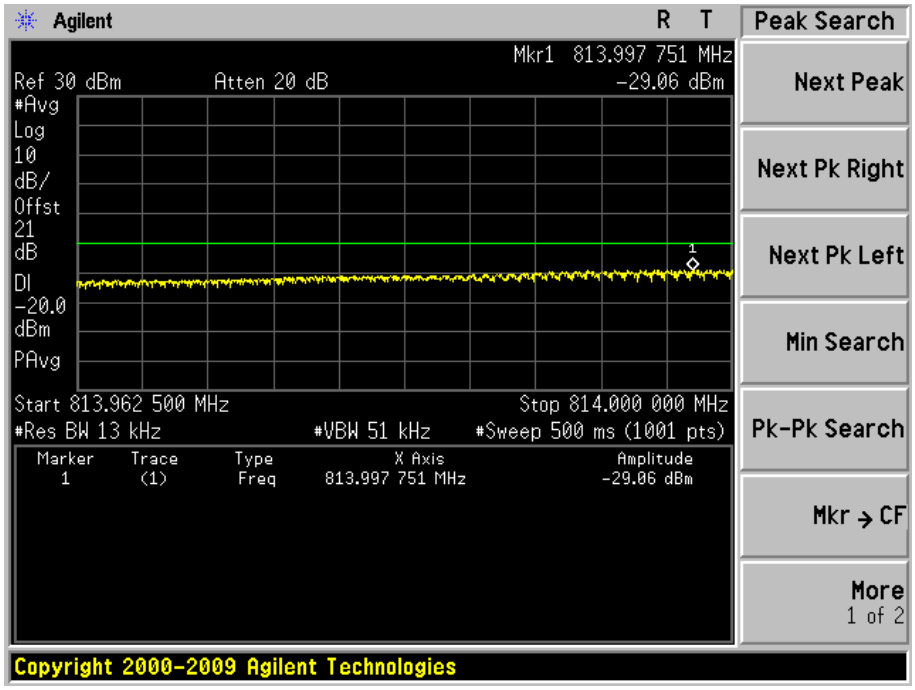
Figure Channel 26697 (814.70MHz)

1RB0





7RB0


Agilent
R T
Peak Search
Mkr1 813.997 751 MHz
Ref 30 dBm
Atten 20 dB
-29.06 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-20.0
dBm
PAvg
Min Search
Start 813.962 500 MHz
Stop 814.000 000 MHz
Pk-Pk Search
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.997 751 MHz -29.06 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

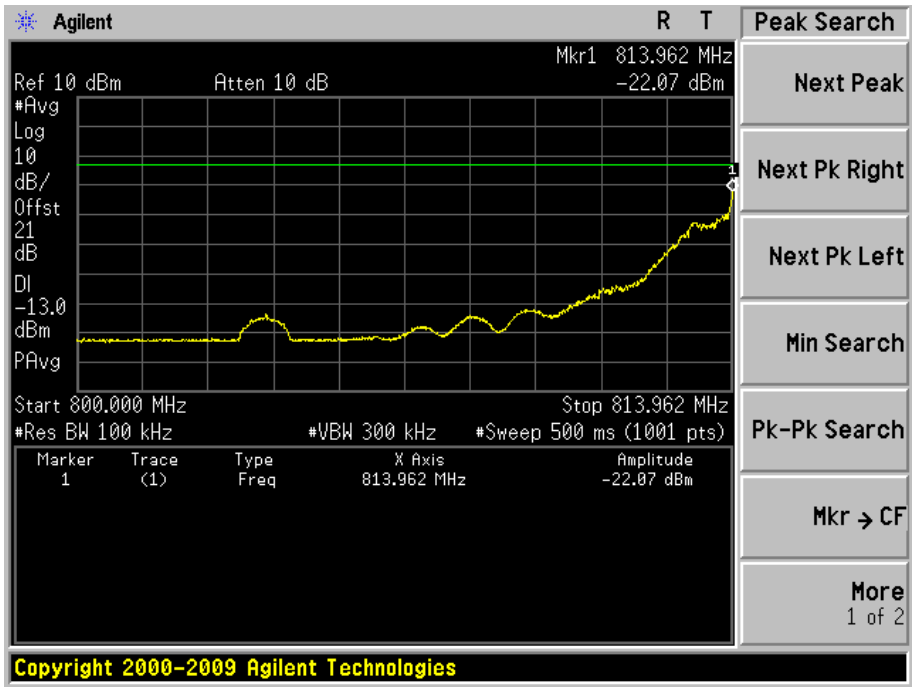
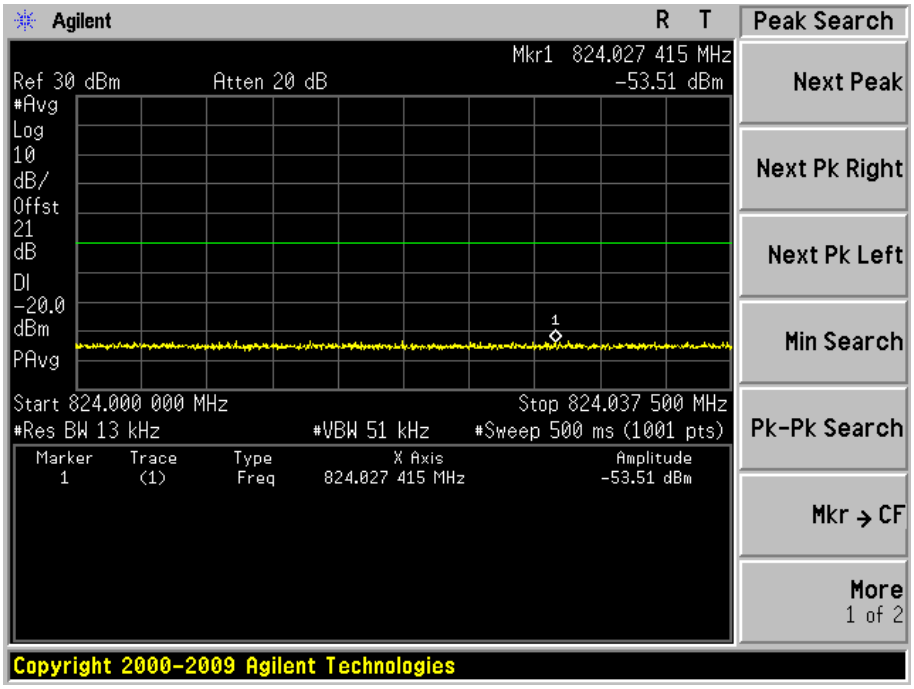
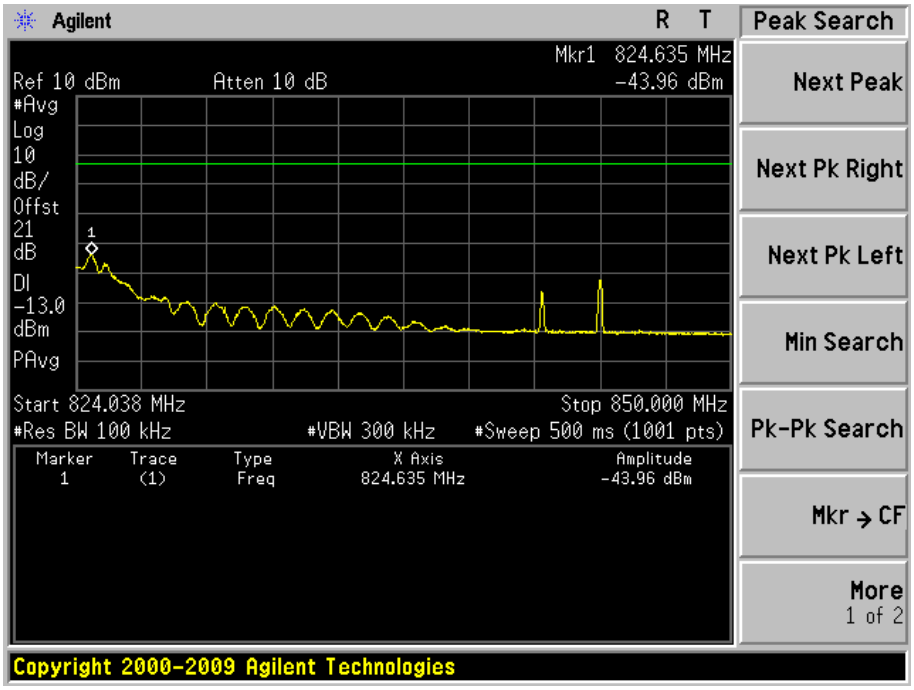

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-22.07 dBm
Next Peak
#Avg
Log
10
dB/
Offst
21
dB
Next Pk Right
Next Pk Left
Dl
-13.0
dBm
PAvg
Min Search
Start 800.000 MHz
Stop 813.962 MHz
Pk-Pk Search
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -22.07 dBm
Mkr → CF
More
1 of 2
Copyright 2000-2009 Agilent Technologies

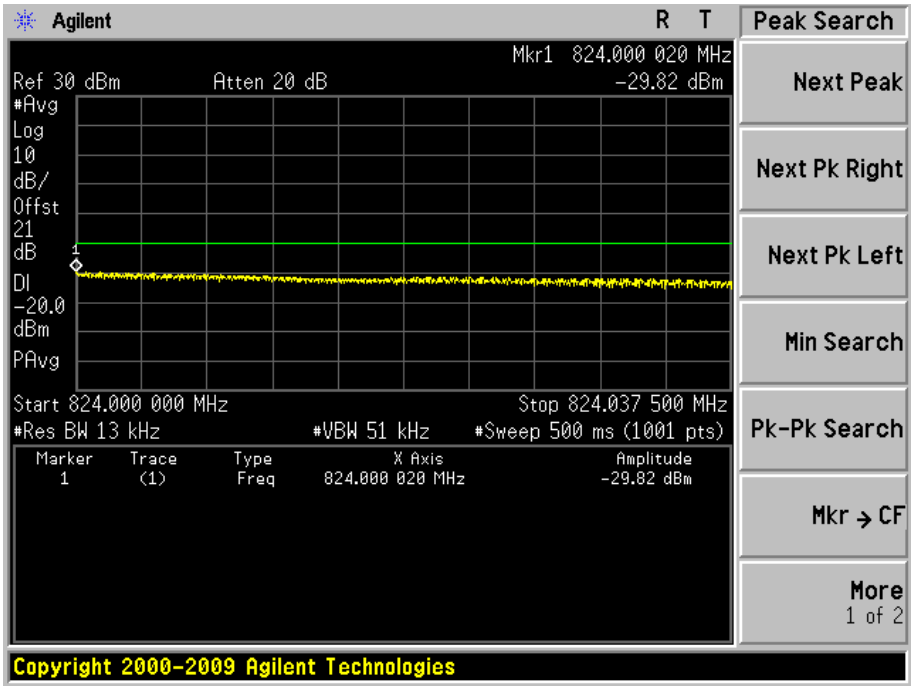
Figure Channel 26783 (823.30MHz)

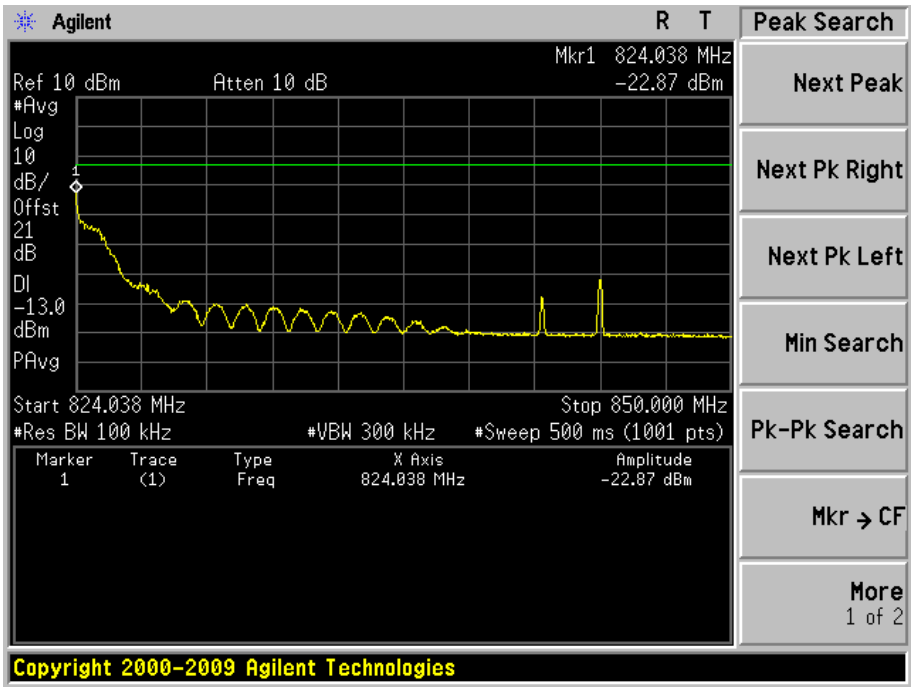
1RB6





7RB0

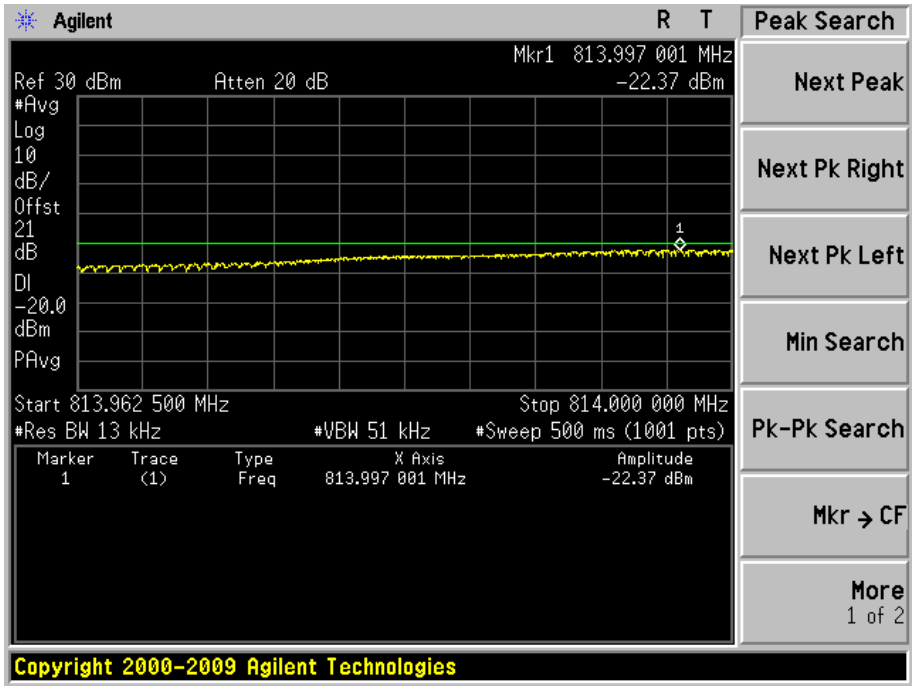

Agilent
R T
Peak Search
Mkr1 824.000 020 MHz
Ref 30 dBm
Atten 20 dB
-29.82 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 020 MHz -29.82 dBm
Copyright 2000-2009 Agilent Technologies

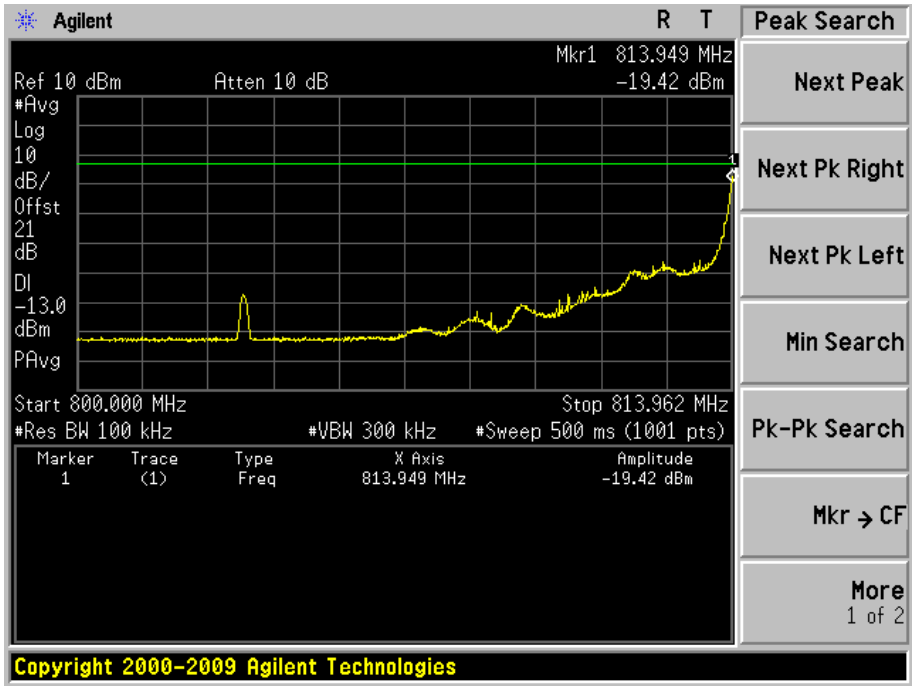

Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 10 dBm
Atten 10 dB
-22.87 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -22.87 dBm
Copyright 2000-2009 Agilent Technologies

Product	Wireless Module		
Test Item	Conducted Band Edge		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	AC6

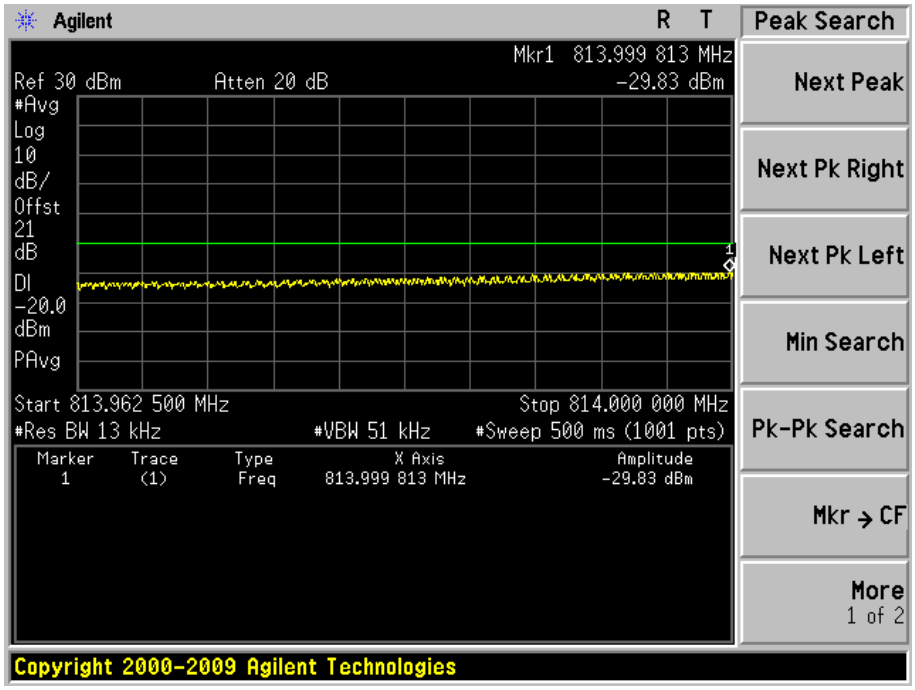
Figure Channel 26697 (814.70MHz)

1RB0





7RB0


Agilent
R T
Peak Search
Mkr1 813.999 813 MHz
Ref 30 dBm
Atten 20 dB
-29.83 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 813.962 500 MHz
Stop 814.000 000 MHz
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.999 813 MHz -29.83 dBm
Copyright 2000-2009 Agilent Technologies

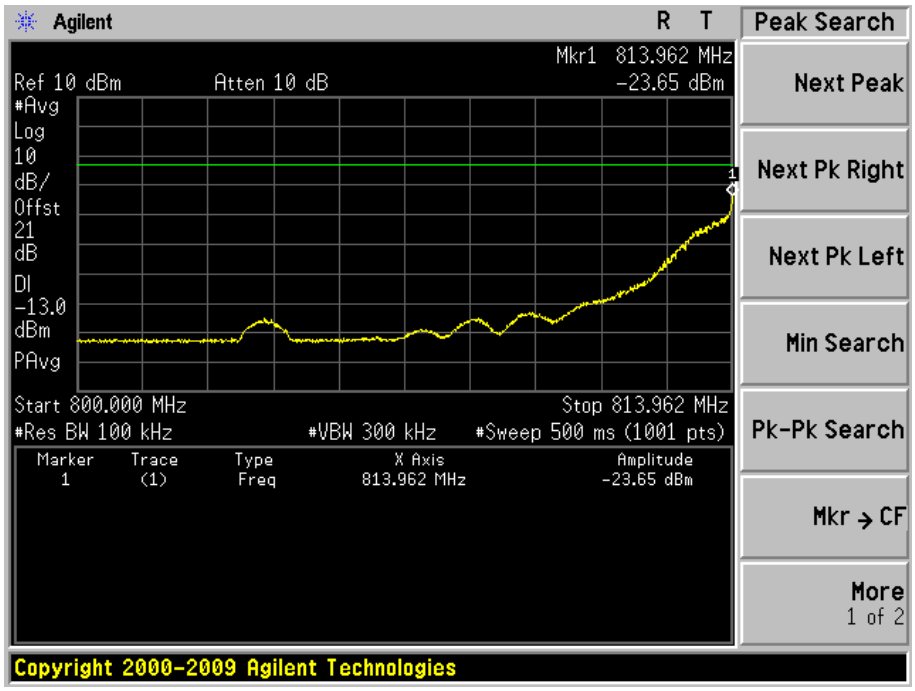
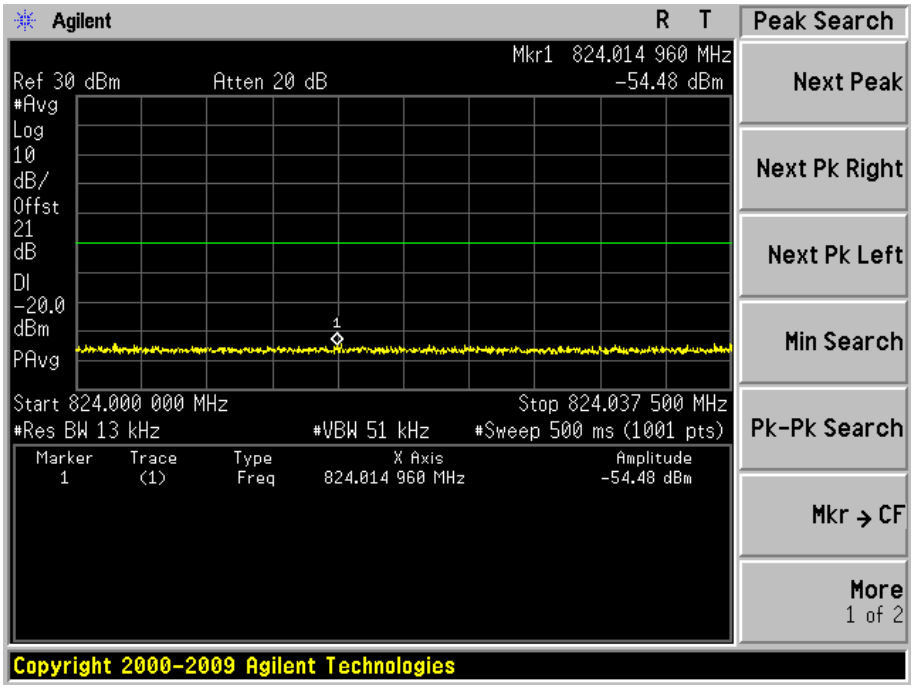
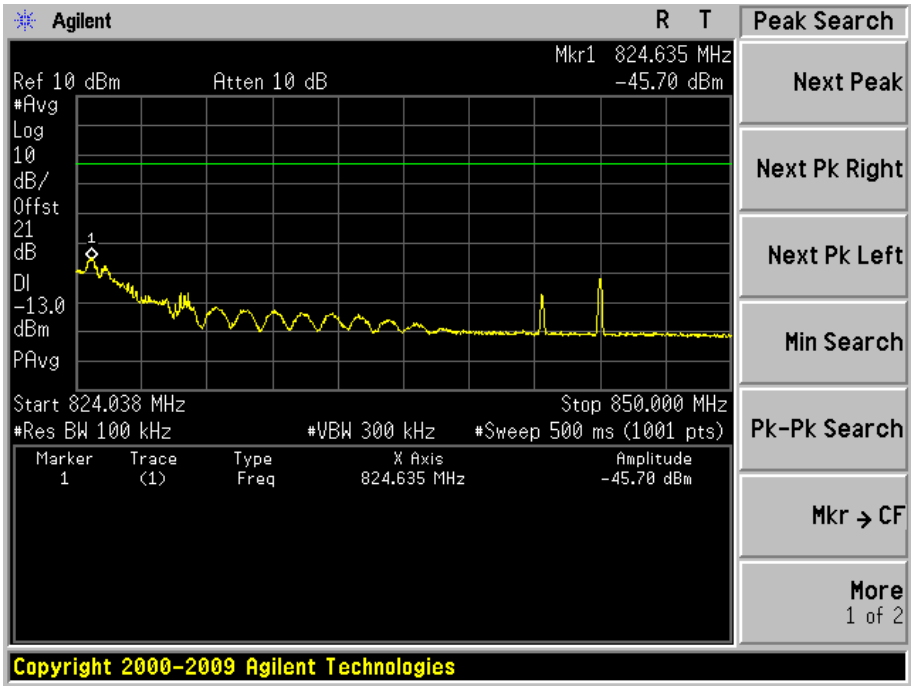

Agilent
R T
Peak Search
Mkr1 813.962 MHz
Ref 10 dBm
Atten 10 dB
-23.65 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 800.000 MHz
Stop 813.962 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 813.962 MHz -23.65 dBm
Copyright 2000-2009 Agilent Technologies

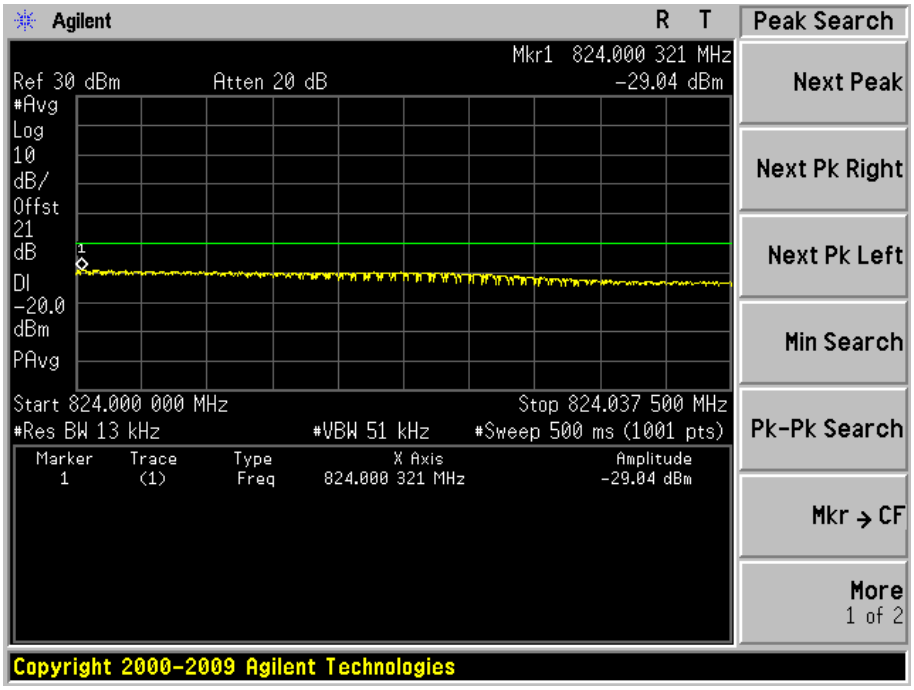
Figure Channel 26783 (823.30MHz)

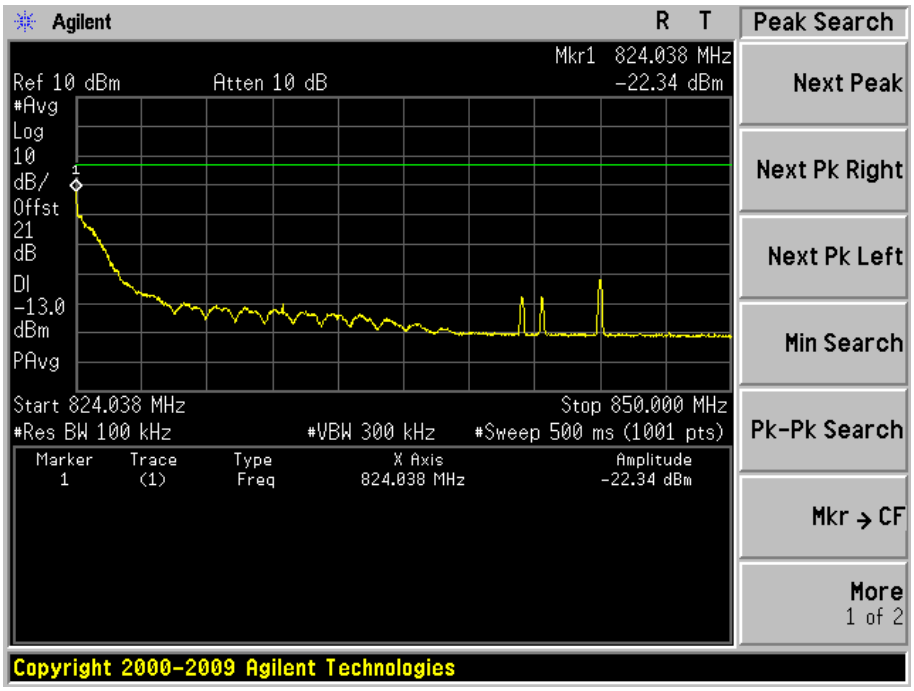
1RB6





7RB0


Agilent
R T
Peak Search
Mkr1 824.000 321 MHz
Ref 30 dBm
Atten 20 dB
-29.04 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-20.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.000 000 MHz
Stop 824.037 500 MHz
#Res BW 13 kHz
#VBW 51 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.000 321 MHz -29.04 dBm
Copyright 2000-2009 Agilent Technologies


Agilent
R T
Peak Search
Mkr1 824.038 MHz
Ref 10 dBm
Atten 10 dB
-22.34 dBm
#Avg
Log
10
dB/
Offst
21
dB
Dl
-13.0
dBm
PAvg
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 824.038 MHz
Stop 850.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
#Sweep 500 ms (1001 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 824.038 MHz -22.34 dBm
Copyright 2000-2009 Agilent Technologies

7. Spurious Emission

7.1. Test Equipment

Conducted Emission / AC-6

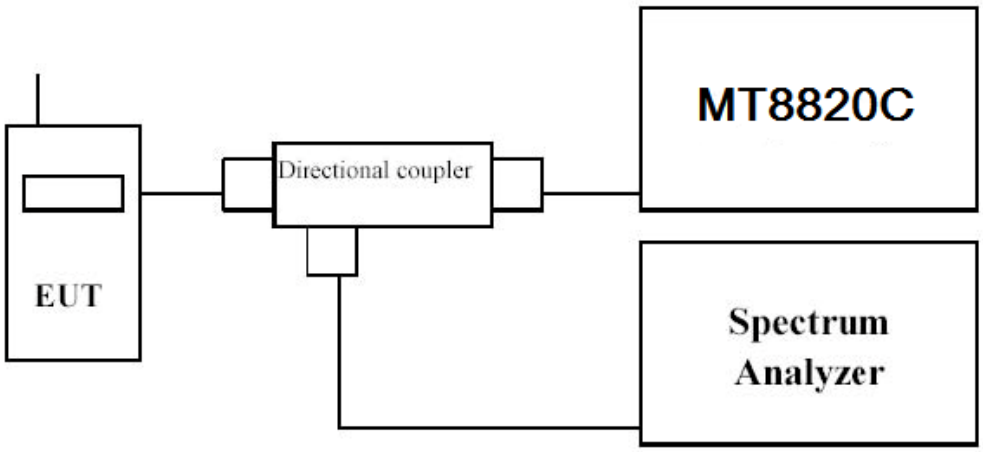
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

Radiated Spurious Emission / AC-5

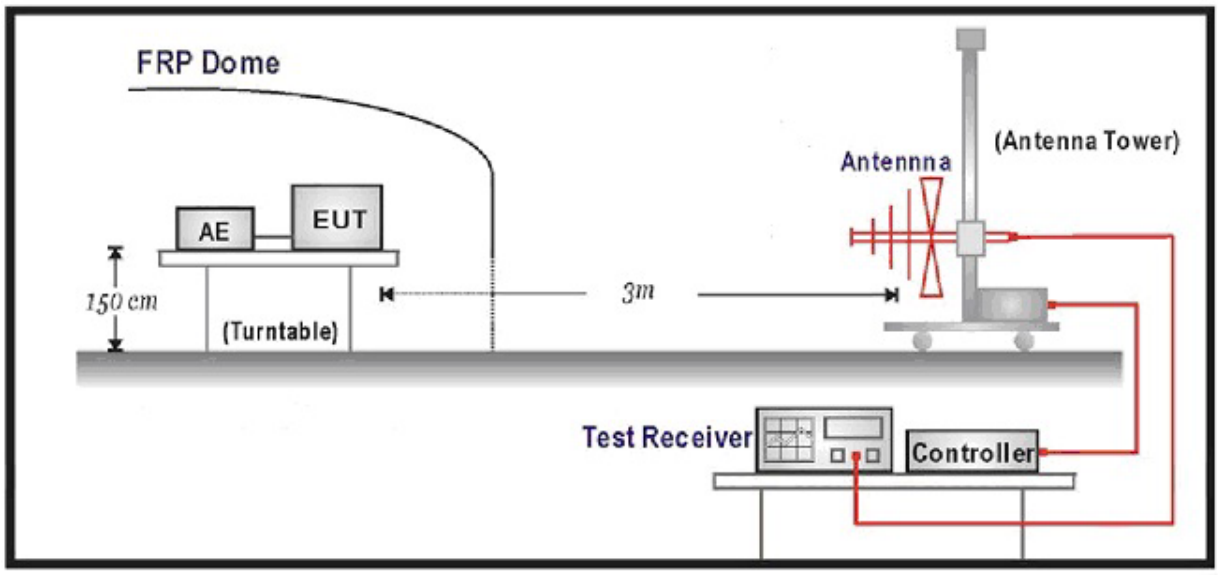
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2015/08/07
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
PSG Analog Signal Generator	Agilent	E8257D	MY44321116	2016/03/10
Preamplifier	QuieTek	AP-025C	CHM-0503006	2016/04/11
Preamplifier	Miteq	NSP1800-25	1364185	2016/05/03
DRG Horn	ETS-Lindgren	3117	00123988	2016/01/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016/03/01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016/03/10
EMI Receiver	Agilent	N9038A	MY51210196	2016/01/07
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016/01/07

7.2. Test Setup

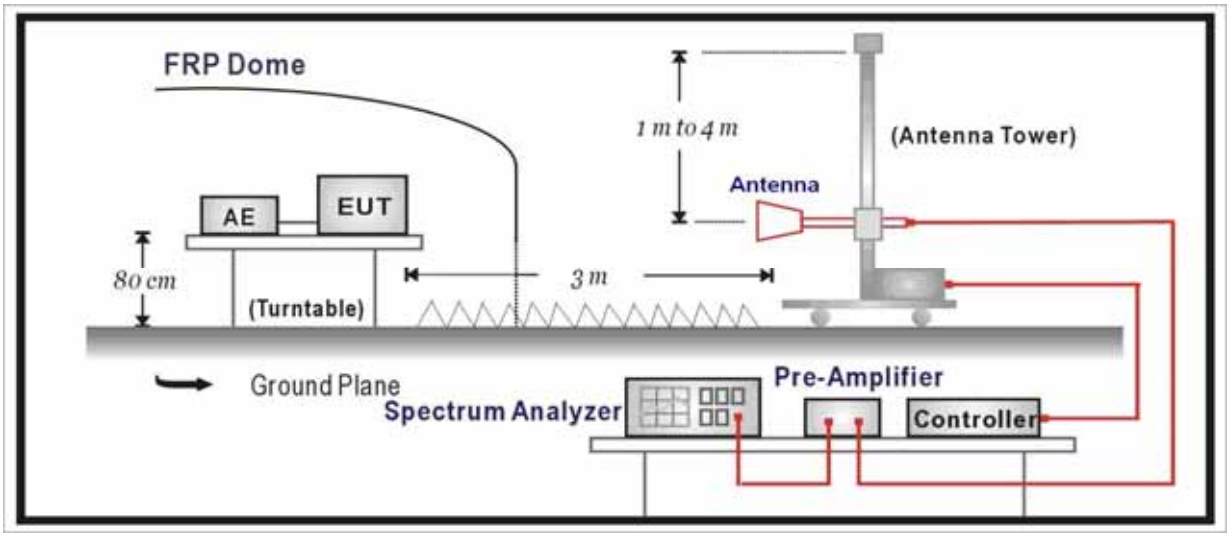
Conducted Spurious Measurement: below 1GHz



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



7.3. Test Procedure

Conducted Spurious Measurement:

a) The EUT was connected to spectrum analyzer and System Simulator via power divider.
b) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
c) The conducted spurious emission for the whole frequency range was taken.

Radiated Spurious Measurement:

d) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
e) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
f) The table was rotated 360 degrees to determine the position of the highest spurious emission.
g) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
h) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
i) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
j) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
k) Taking the record of output power at antenna port
l) Repeat step 7 to step 8 for another polarization.
m) EIRP = SG - Cable loss + Antenna Gain

7.4. Uncertainty

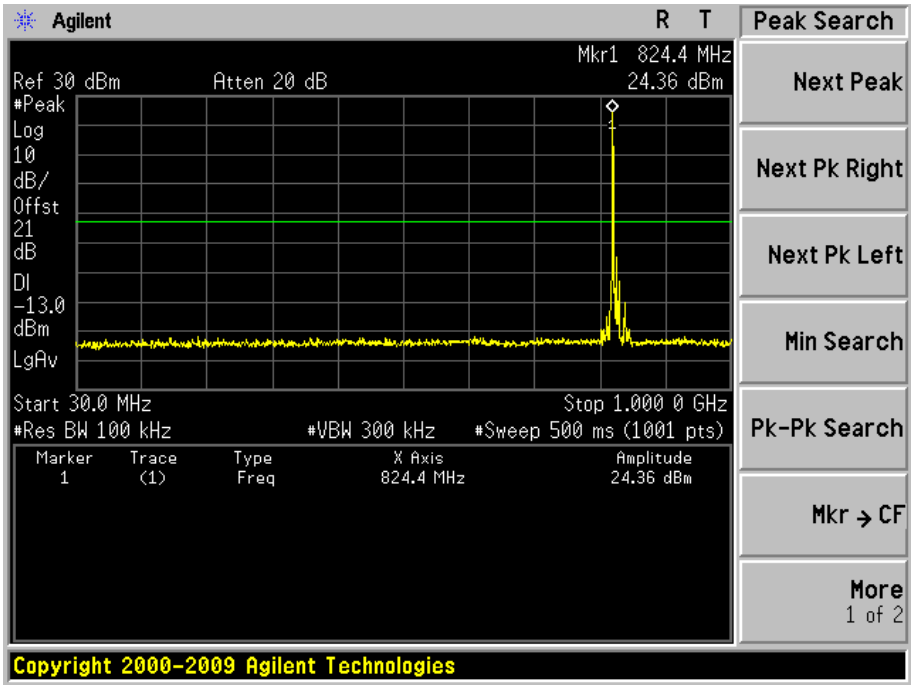
The measurement uncertainty is defined as 3.2 dB for Radiated Power Measurement.

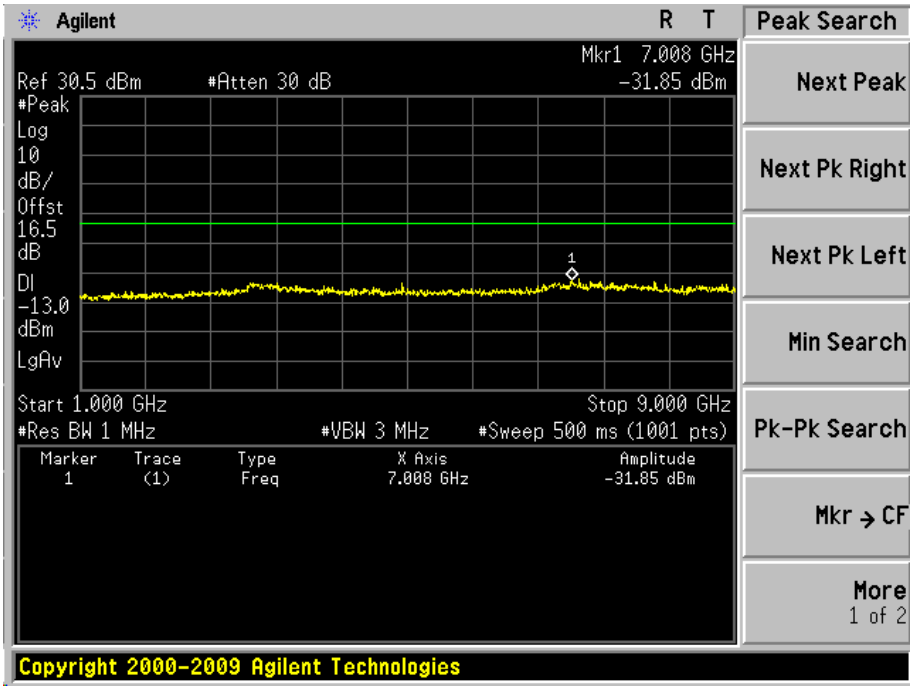
7.5. Test Result

LTE Band 26 for Part 22H

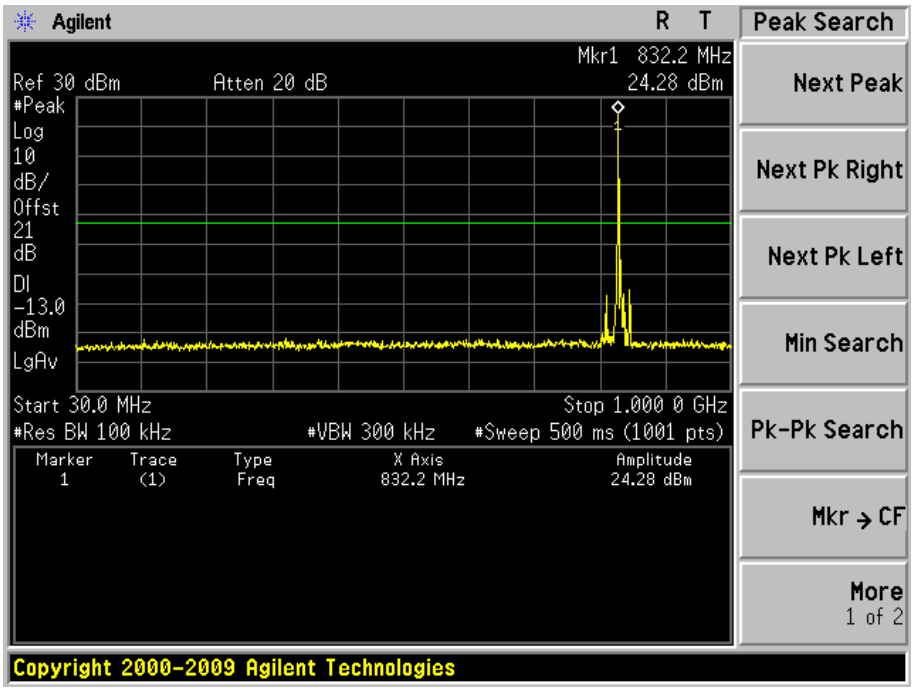
Product	Wireless Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	TR8

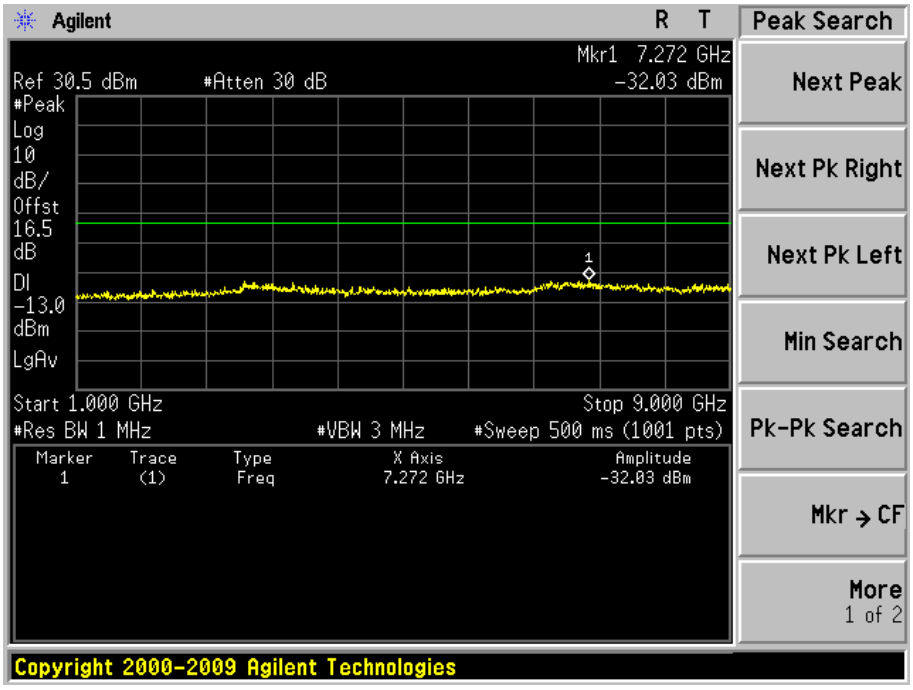
Low Channel 26840(829.00MHz) 1RB0



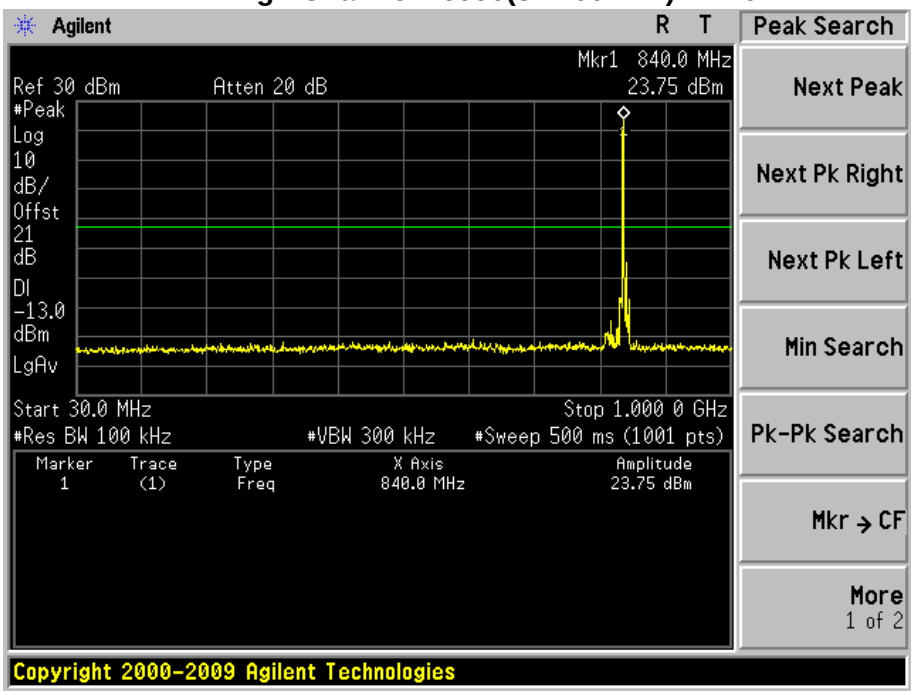


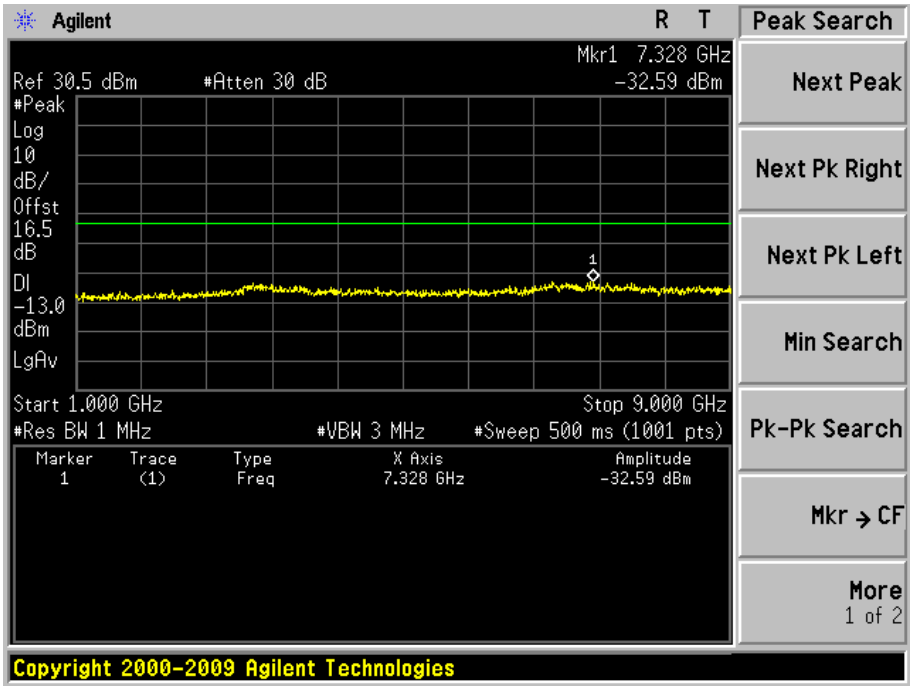
Mid Channel 26915(836.50MHz) 1RB0





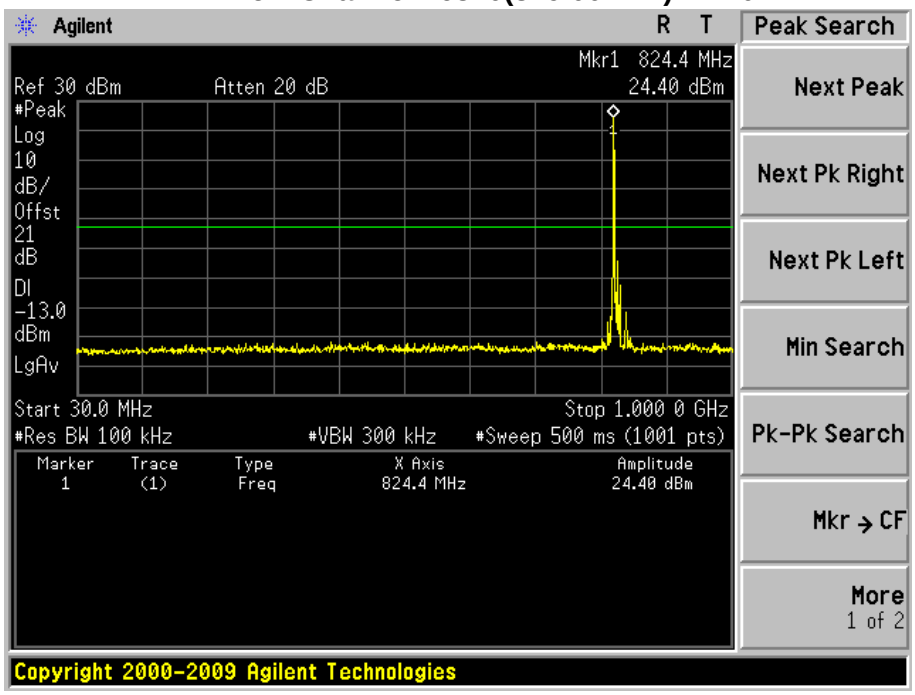
High Channel 26990(844.00MHz) 1RB0

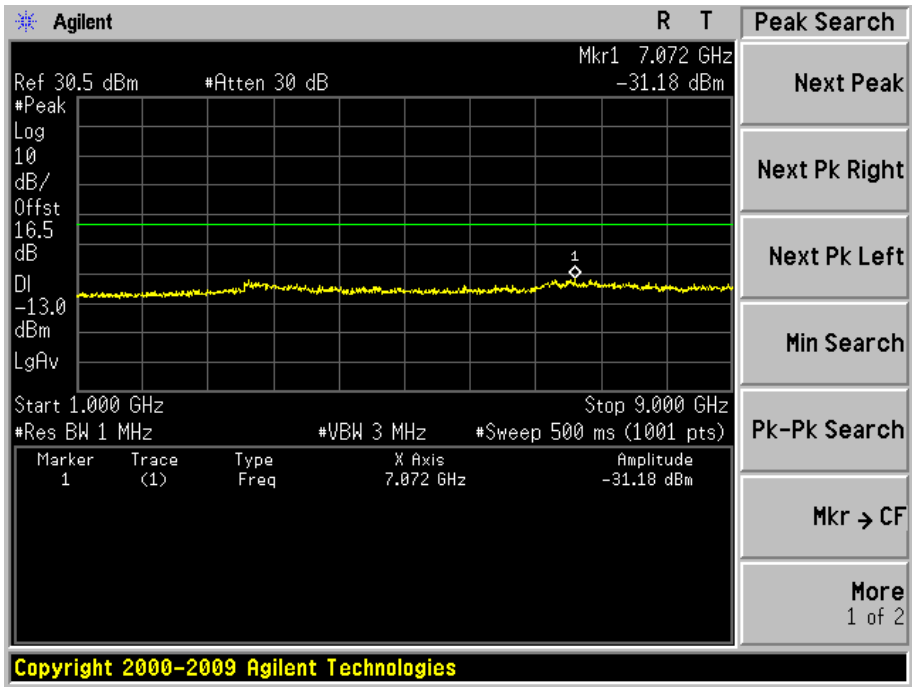




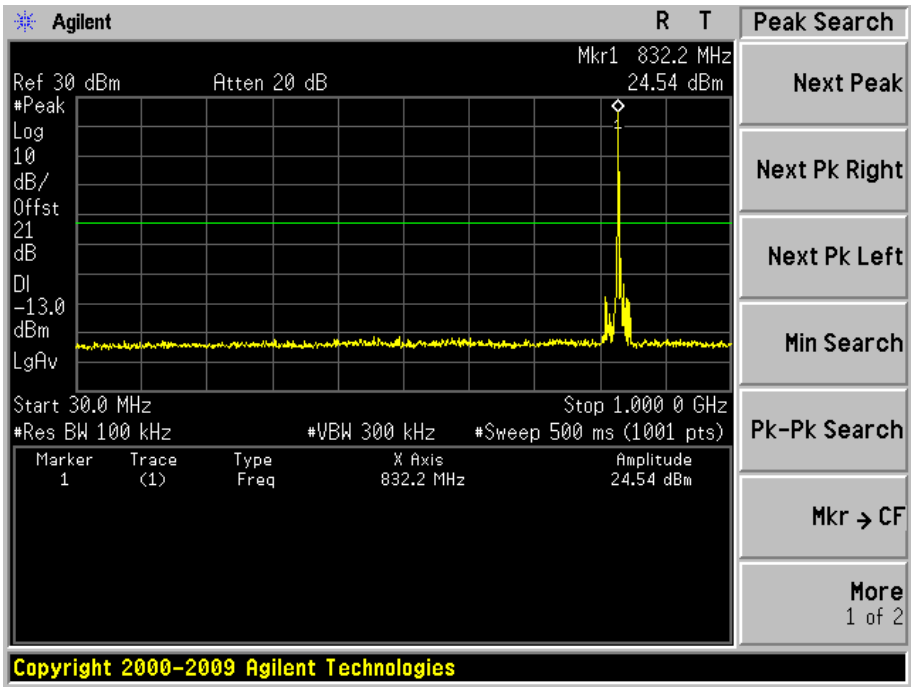
Product	Wireless Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	TR8

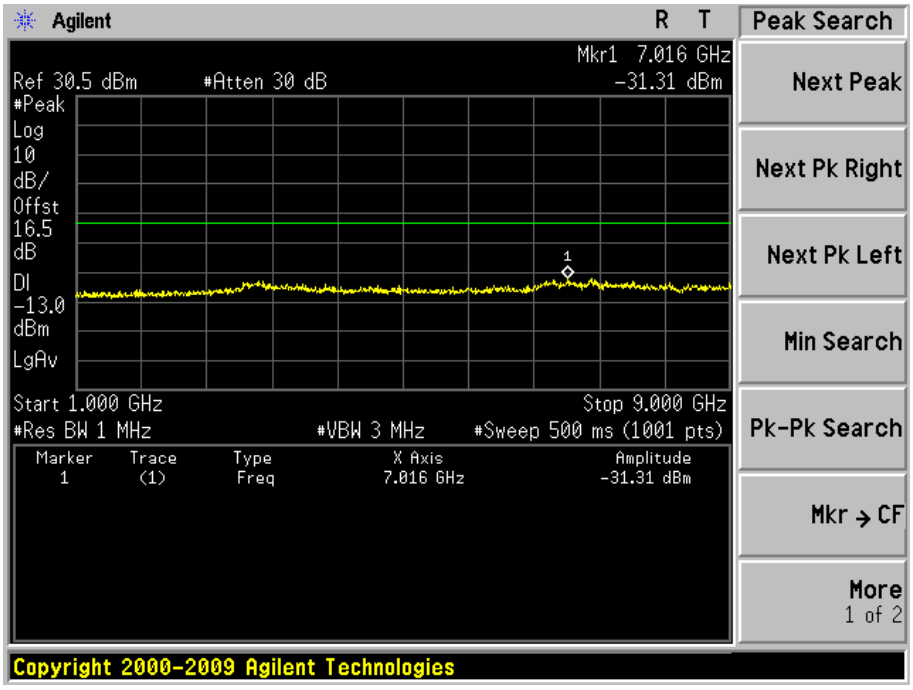
Low Channel 26840(829.00MHz) 1RB0



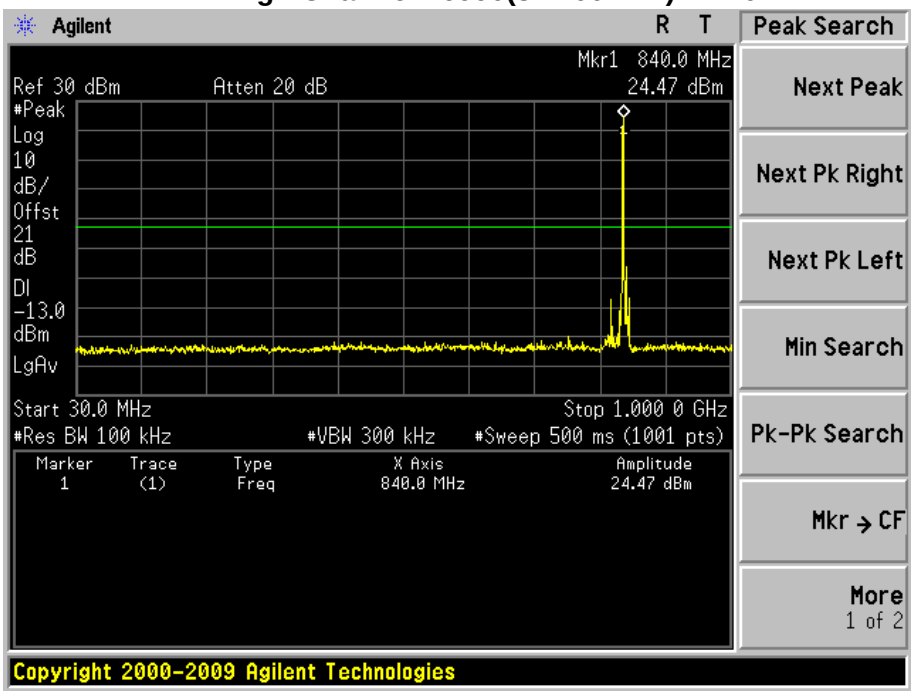


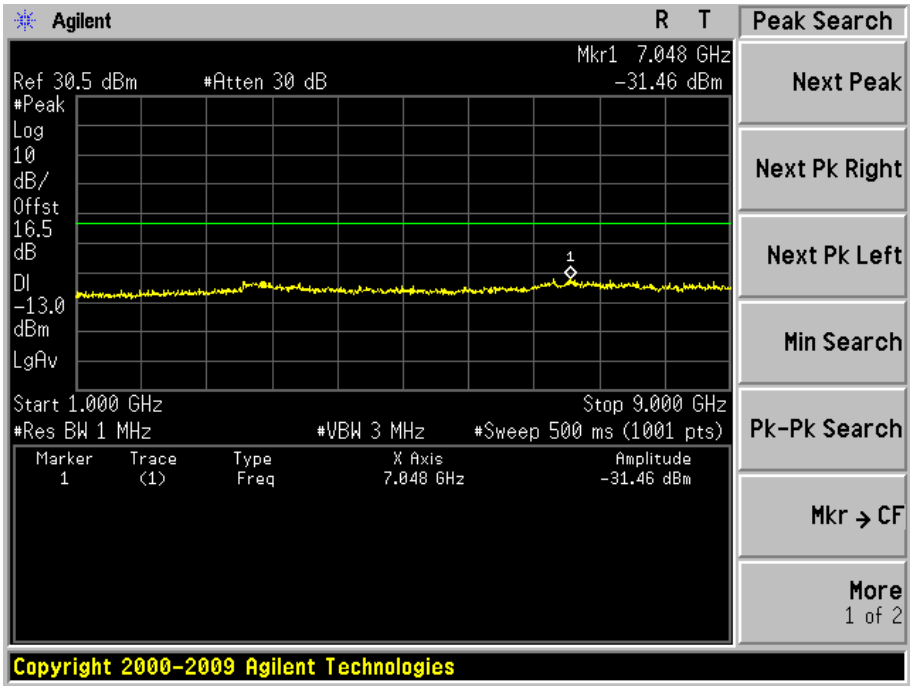
Mid Channel 26915(836.50MHz) 1RB0





High Channel 26990(844.00MHz) 1RB0

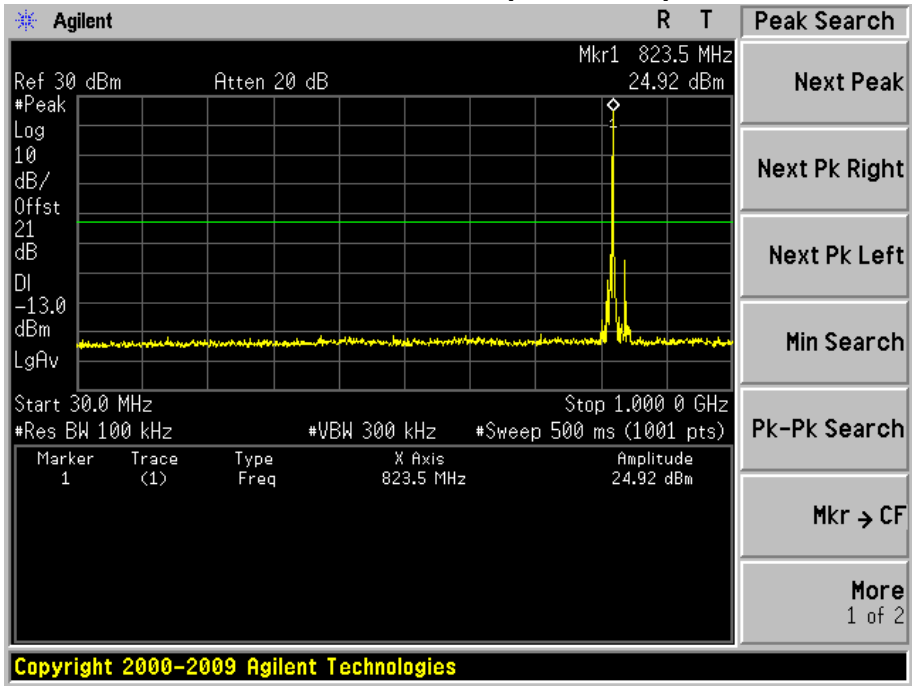


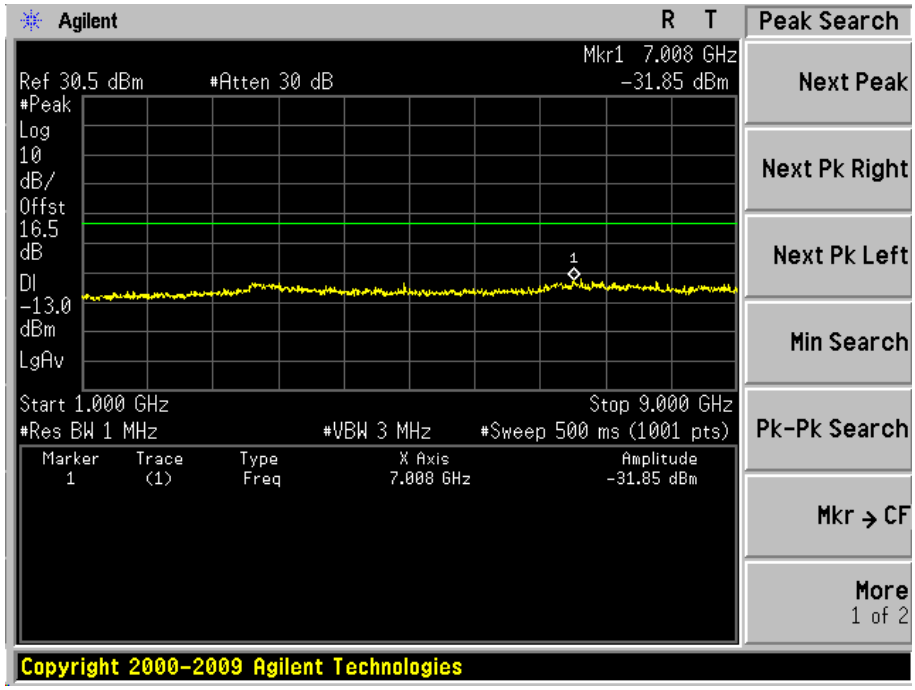


LTE Band 26 For Part 90S

Product	Wireless Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	TR8

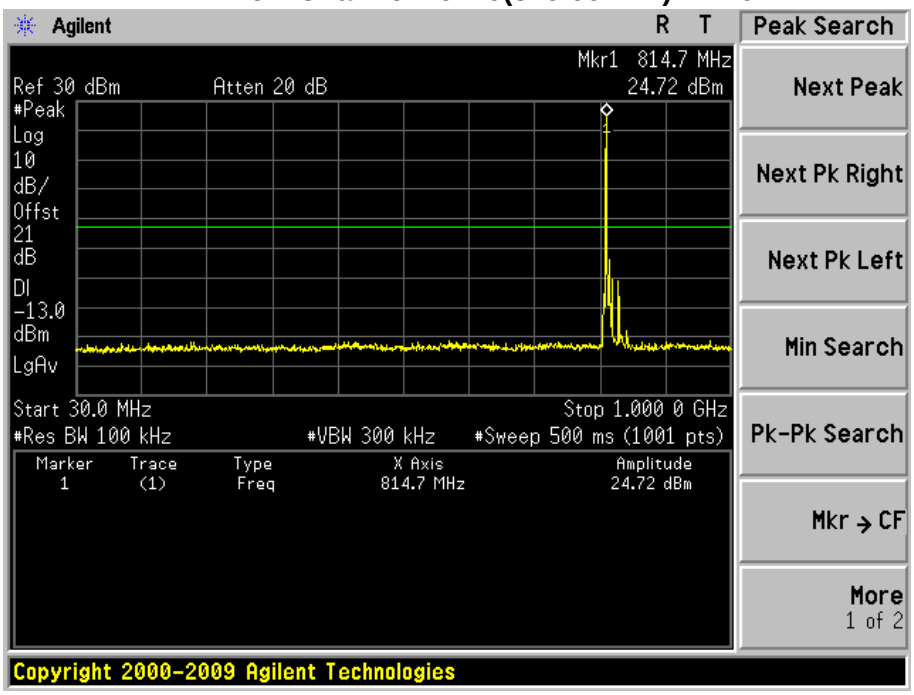
Low Channel 26740(819.00MHz) 1RB0

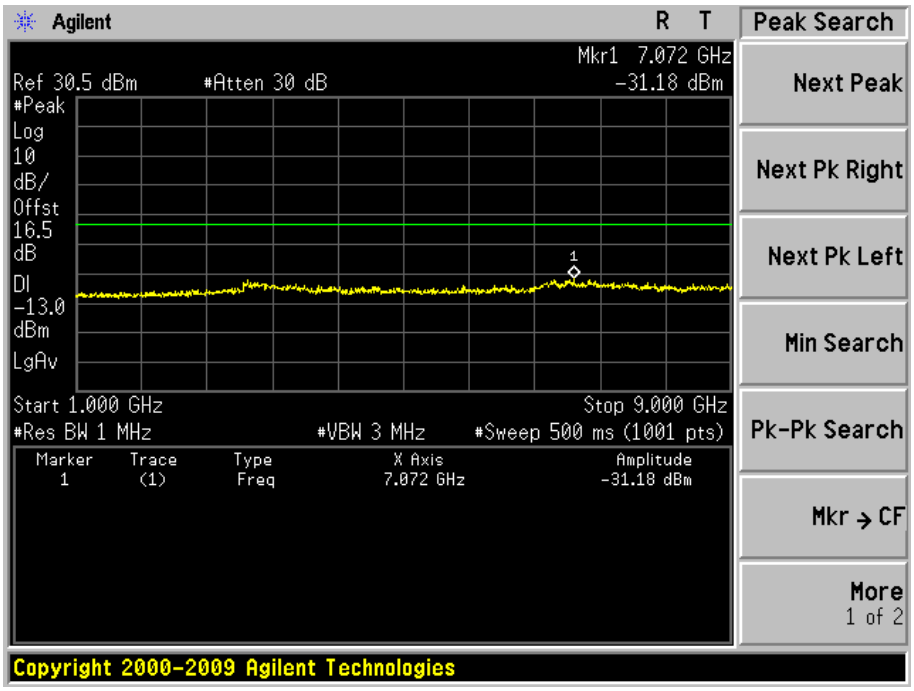




Product	Wireless Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	TR8

Low Channel 26740(819.00MHz) 1RB0





LTE Band 26 For Part 22H

Product	Wireless Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 26840 (829.00MHz) 1RB0								
1658.00	-61.37	V	-65.30	1.03	9.73	-56.60	-13.00	-43.60
2487.00	-63.79	V	-64.63	1.30	10.45	-55.48	-13.00	-42.48
1658.00	-63.38	H	-67.35	1.03	9.73	-58.65	-13.00	-45.65
2487.00	-64.14	H	-65.28	1.30	10.45	-56.13	-13.00	-43.13
Middle Channel 26915 (836.50MHz) 1RB0								
1673.00	-61.38	V	-64.27	1.05	9.89	-55.43	-13.00	-42.43
2509.50	-63.79	V	-64.79	1.31	10.58	-55.52	-13.00	-42.52
1673.00	-63.39	H	-66.01	1.05	9.89	-57.17	-13.00	-44.17
2509.50	-64.14	H	-65.54	1.31	10.58	-56.27	-13.00	-43.27
High Channel 26990 (844.00MHz) 1RB0								
1688.00	-62.50	V	-66.18	1.02	10.04	-57.16	-13.00	-44.16
2532.00	-64.29	V	-64.68	1.28	10.65	-55.31	-13.00	-42.31
1688.00	-62.78	H	-67.02	1.02	10.04	-58.00	-13.00	-45.00
2532.00	-64.64	H	-65.33	1.28	10.65	-55.96	-13.00	-42.96

Product	Wireless Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 26840 (829.00MHz) 1RB0								
1658.00	-61.36	V	-66.03	1.03	9.73	-57.33	-13.00	-44.33
2487.00	-63.78	V	-65.44	1.30	10.45	-56.29	-13.00	-43.29
1658.00	-63.40	H	-64.90	1.03	9.73	-56.20	-13.00	-43.20
2487.00	-64.15	H	-65.06	1.30	10.45	-55.91	-13.00	-42.91
Middle Channel 26915 (836.50MHz) 1RB0								
1673.00	-61.37	V	-64.99	1.05	9.89	-56.15	-13.00	-43.15
2509.50	-63.79	V	-64.36	1.31	10.58	-55.09	-13.00	-42.09
1673.00	-63.39	H	-65.89	1.05	9.89	-57.05	-13.00	-44.05
2509.50	-64.15	H	-64.91	1.31	10.58	-55.64	-13.00	-42.64
High Channel 26990 (844.00MHz) 1RB0								
1688.00	-62.63	V	-66.31	1.02	10.04	-57.29	-13.00	-44.29
2532.00	-64.11	V	-64.50	1.28	10.65	-55.13	-13.00	-42.13
1688.00	-62.95	H	-67.19	1.02	10.04	-58.17	-13.00	-45.17
2532.00	-64.90	H	-65.60	1.28	10.65	-56.23	-13.00	-43.23

LTE Band 26 For Part 90S

Product	Wireless Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 26740 (819.00MHz) 1RB0								
1638.00	-61.94	V	-65.87	1.00	9.70	-57.17	-13.00	-44.17
2457.00	-64.35	V	-65.19	1.27	10.42	-56.04	-13.00	-43.04
1638.00	-63.97	H	-67.94	1.00	9.70	-59.24	-13.00	-46.24
2457.00	-64.71	H	-65.85	1.27	10.42	-56.70	-13.00	-43.70

Product	Wireless Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 26840 (819.00MHz) 1RB0								
1638.00	-62.67	V	-66.61	1.00	9.70	-57.91	-13.00	-44.91
2457.00	-65.17	V	-66.01	1.27	10.42	-56.86	-13.00	-43.86
1638.00	-61.50	H	-65.47	1.00	9.70	-56.77	-13.00	-43.77
2457.00	-64.48	H	-65.62	1.27	10.42	-56.47	-13.00	-43.47

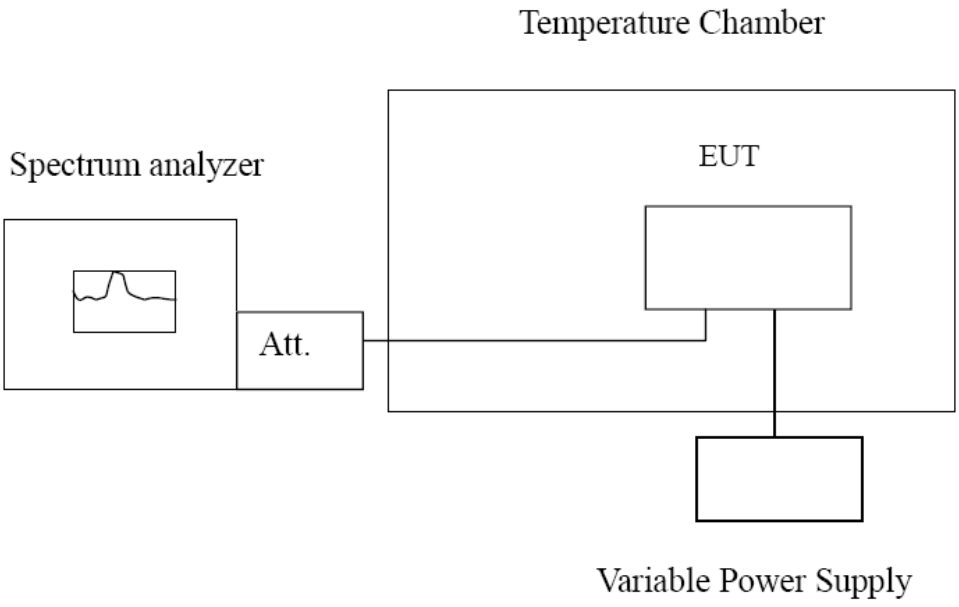
8. Frequency Stability Under Temperature & Voltage Variations

8.1. Test Equipment

Frequency Stability Under Temperature & Voltage Variations / TR-7

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2016/03/10
Radio Communication Tester	R&S	CMU 200	117088	2016/03/10
Dual Directional Coupler	Agilent	778D	20160	2016/03/10
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2016/03/10
DC Power Supply	IDRC	CD-035-020PR	977272	2016/03/10
Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2016/01/07
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2016/01/07

8.2. Test Setup



8.3. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

8.4. Uncertainty

The measurement uncertainty is defined as ± 10 Hz.

8.5. Test Result

LTE Band 26 for Part 22H

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (15M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	-32	± 2078.8
-20	836.50	58	± 2078.8
-10	836.50	42	± 2078.8
0	836.50	-40	± 2078.8
10	836.50	48	± 2078.8
20	836.50	-45	± 2078.8
30	836.50	57	± 2078.8
40	836.50	-59	± 2078.8
50	836.50	-56	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	-44	± 2078.8
3.7	836.50	-39	± 2078.8
3.4	836.50	28	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (15M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	32	± 2078.8
-20	836.50	-49	± 2078.8
-10	836.50	59	± 2078.8
0	836.50	46	± 2078.8
10	836.50	-60	± 2078.8
20	836.50	-53	± 2078.8
30	836.50	32	± 2078.8
40	836.50	53	± 2078.8
50	836.50	-46	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	55	± 2078.8
3.7	836.50	36	± 2078.8
3.4	836.50	56	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	-47	± 2078.8
-20	836.50	-53	± 2078.8
-10	836.50	60	± 2078.8
0	836.50	19	± 2078.8
10	836.50	-59	± 2078.8
20	836.50	37	± 2078.8
30	836.50	-52	± 2078.8
40	836.50	-27	± 2078.8
50	836.50	-51	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	44	± 2078.8
3.7	836.50	-32	± 2078.8
3.4	836.50	-11	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	29	± 2078.8
-20	836.50	-32	± 2078.8
-10	836.50	-54	± 2078.8
0	836.50	46	± 2078.8
10	836.50	-52	± 2078.8
20	836.50	47	± 2078.8
30	836.50	-31	± 2078.8
40	836.50	48	± 2078.8
50	836.50	38	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	-27	± 2078.8
3.7	836.50	33	± 2078.8
3.4	836.50	-17	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (5M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	36	± 2078.8
-20	836.50	54	± 2078.8
-10	836.50	50	± 2078.8
0	836.50	47	± 2078.8
10	836.50	-58	± 2078.8
20	836.50	17	± 2078.8
30	836.50	51	± 2078.8
40	836.50	38	± 2078.8
50	836.50	-26	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	44	± 2078.8
3.7	836.50	-32	± 2078.8
3.4	836.50	11	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	-34	± 2078.8
-20	836.50	-56	± 2078.8
-10	836.50	47	± 2078.8
0	836.50	-54	± 2078.8
10	836.50	-49	± 2078.8
20	836.50	39	± 2078.8
30	836.50	59	± 2078.8
40	836.50	55	± 2078.8
50	836.50	-56	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	-46	± 2078.8
3.7	836.50	35	± 2078.8
3.4	836.50	-42	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (3M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	-52	± 2078.8
-20	836.50	-39	± 2078.8
-10	836.50	47	± 2078.8
0	836.50	52	± 2078.8
10	836.50	37	± 2078.8
20	836.50	-50	± 2078.8
30	836.50	-47	± 2078.8
40	836.50	47	± 2078.8
50	836.50	42	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	44	± 2078.8
3.7	836.50	-35	± 2078.8
3.4	836.50	-28	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	50	± 2078.8
-20	836.50	57	± 2078.8
-10	836.50	34	± 2078.8
0	836.50	47	± 2078.8
10	836.50	-49	± 2078.8
20	836.50	-58	± 2078.8
30	836.50	-43	± 2078.8
40	836.50	47	± 2078.8
50	836.50	44	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	-37	± 2078.8
3.7	836.50	45	± 2078.8
3.4	836.50	39	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	43	± 2078.8
-20	836.50	-43	± 2078.8
-10	836.50	27	± 2078.8
0	836.50	57	± 2078.8
10	836.50	56	± 2078.8
20	836.50	-56	± 2078.8
30	836.50	-47	± 2078.8
40	836.50	46	± 2078.8
50	836.50	36	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	43	± 2078.8
3.7	836.50	-36	± 2078.8
3.4	836.50	-41	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.50	48	± 2078.8
-20	836.50	42	± 2078.8
-10	836.50	-40	± 2078.8
0	836.50	-25	± 2078.8
10	836.50	-56	± 2078.8
20	836.50	-49	± 2078.8
30	836.50	-39	± 2078.8
40	836.50	-41	± 2078.8
50	836.50	-48	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	836.50	-33	± 2078.8
3.7	836.50	-45	± 2078.8
3.4	836.50	28	± 2078.8

LTE Band 26 For Part 90S

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (10M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	46	± 2078.8
-20	819.00	-52	± 2078.8
-10	819.00	59	± 2078.8
0	819.00	39	± 2078.8
10	819.00	-58	± 2078.8
20	819.00	36	± 2078.8
30	819.00	51	± 2078.8
40	819.00	-26	± 2078.8
50	819.00	-50	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-44	± 2078.8
3.7	819.00	22	± 2078.8
3.4	819.00	-11	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (10M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	-48	± 2078.8
-20	819.00	31	± 2078.8
-10	819.00	53	± 2078.8
0	819.00	-45	± 2078.8
10	819.00	-51	± 2078.8
20	819.00	56	± 2078.8
30	819.00	-30	± 2078.8
40	819.00	47	± 2078.8
50	819.00	37	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-44	± 2078.8
3.7	819.00	32	± 2078.8
3.4	819.00	19	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (5M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	-35	± 2078.8
-20	819.00	53	± 2078.8
-10	819.00	-49	± 2078.8
0	819.00	47	± 2078.8
10	819.00	-57	± 2078.8
20	819.00	19	± 2078.8
30	819.00	35	± 2078.8
40	819.00	37	± 2078.8
50	819.00	-25	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-38	± 2078.8
3.7	819.00	19	± 2078.8
3.4	819.00	23	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (5M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	43	± 2078.8
-20	819.00	-55	± 2078.8
-10	819.00	46	± 2078.8
0	819.00	-53	± 2078.8
10	819.00	-48	± 2078.8
20	819.00	48	± 2078.8
30	819.00	-58	± 2078.8
40	819.00	34	± 2078.8
50	819.00	35	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-35	± 2078.8
3.7	819.00	44	± 2078.8
3.4	819.00	29	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (3M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	44	± 2078.8
-20	819.00	-38	± 2078.8
-10	819.00	-46	± 2078.8
0	819.00	38	± 2078.8
10	819.00	36	± 2078.8
20	819.00	49	± 2078.8
30	819.00	-46	± 2078.8
40	819.00	61	± 2078.8
50	819.00	-41	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	32	± 2078.8
3.7	819.00	18	± 2078.8
3.4	819.00	34	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (3M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	-49	± 2078.8
-20	819.00	56	± 2078.8
-10	819.00	23	± 2078.8
0	819.00	-46	± 2078.8
10	819.00	-48	± 2078.8
20	819.00	-57	± 2078.8
30	819.00	42	± 2078.8
40	819.00	46	± 2078.8
50	819.00	-43	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	43	± 2078.8
3.7	819.00	29	± 2078.8
3.4	819.00	-35	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (1.4M/QPSK)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	32	± 2078.8
-20	819.00	-42	± 2078.8
-10	819.00	26	± 2078.8
0	819.00	-56	± 2078.8
10	819.00	45	± 2078.8
20	819.00	38	± 2078.8
30	819.00	46	± 2078.8
40	819.00	45	± 2078.8
50	819.00	35	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-43	± 2078.8
3.7	819.00	66	± 2078.8
3.4	819.00	51	± 2078.8

Product	Wireless Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 26 (1.4M/16QAM)		
Date of Test	2015/07/09	Test Site	TR7

Frequency Stability under Temperature

Temperature Interval (℃)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	819.00	-47	± 2078.8
-20	819.00	-41	± 2078.8
-10	819.00	39	± 2078.8
0	819.00	45	± 2078.8
10	819.00	55	± 2078.8
20	819.00	-48	± 2078.8
30	819.00	-38	± 2078.8
40	819.00	50	± 2078.8
50	819.00	-37	± 2078.8

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
4.2	819.00	-29	± 2078.8
3.7	819.00	-35	± 2078.8
3.4	819.00	43	± 2078.8

The End