

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT AND INDUSTRY CANADA RSS 210

OF

Product Name: Tablet Device
Brand Name: SONY
Model No.: SGPT1211
Model Difference: N/A
FCC ID: AK8SGPT1211
IC: 409B-SGPT1211
Report No.: EF/2012/50008
Issue Date: Jun. 19, 2012
FCC Rule Part: §15.407
IC Rule Part: RSS-210 issue 8:2010, Annex 9
Prepared for: Sony Corporation
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VERIFICATION OF COMPLIANCE

Applicant: Sony Corporation
1-7-1 Konan Minato-Ku, Tokyo, 108-0075 Japan

Product Name: Tablet Device

Brand Name: SONY

Model No.: SGPT1211

Model Difference: N/A

FCC ID: AK8SGPT1211

IC: 409B-SGPT1211

File Number: EF/2012/50008

Date of test: May. 29, 2012 ~ Jun. 19, 2012

Date of EUT Received: May. 29, 2012

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 and RSS-210 issue 8: 2010 Annex 9.

The test results of this report relate only to the tested sample identified in this report.

Test By:  **Date:** Jun. 19, 2012

Jimmy Liu / Engineer

Prepared By:  **Date:** Jun. 19, 2012

Cherry Chen / Clerk

Approved By:  **Date:** Jun. 19, 2012

Jim Chang / Supervisor

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Version

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	Tablet Device		
Brand Name:	SONY		
Model No.:	SGPT1211		
Model difference:	N/A		
Power Supply	3.7Vdc Rechargeable Lithium Ion battery or 5Vdc from AC/DC adapter		
	Battery:	(1) Model No.: SGPBP03, Supplier: SONY (2) Model No.: SGPBP04, Supplier: SONY	
	Adapter :	Model No.: SGPAC5V4, Supplier: SONY	

WLAN: 802.11 a/b/g/n

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 15.84dBm g : 17.21dBm	DSSS, OFDM	b : 13M7G1D g : 17M4D1D
11n (2.4GHz)	HT20 2412-2462	11	n : 17.73dBm	OFDM	18M4D1D

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Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11a	5150~5250	4	12.53dBm	OFDM	17M2D1D
	5250~5350	4	12.42 dBm		17M1D1D
	5470~5725	11	13.26dBm		17M0D1D
11n	HT20 5150~5250	4	HT20:12.52dBm	OFDM	18M1D1D
	HT20 5250~5350	4	HT20:12.85dBm		18M1D1D
	HT20 5470~5725	11	HT20:13.90dBm		18M1D1D
11n	HT40 5150~5250	2	HT40:12.90dBm	OFDM	36M4D1D
	HT40 5250~5350	2	HT40:13.35dBm		36M2D1D
	HT40 5470~5725	5	HT40:13.92dBm		36M2D1D
11a	5725-5850	5	a : 14.44 dBm	OFDM	17M1D1D
11n (5GHz)	HT20 5725-5850	5	HT20: 14.62 dBm		18M1D1D
11n (5GHz)	HT40 5725-5850	2	HT40: 14.38 dBm		36M3D1D

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Antenna Designation	Inverted-F Antenna 2.4GHz: 2.85dBi 5GHz Gain: 2.54dBi (5150MHz-5250MHz) 5GHz Gain: 2.13dBi (5250MHz-5350MHz) 5GHz Gain: 2.27dBi (5470MHz-5725MHz) 5GHz Gain: 1.58dBi (5725MHz-5850MHz)
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 – 135Mbps

The 2.4G max antenna gain is 2.85dBi which was choosing for Radiated Spurious Emission test.
The 5G max antenna gain is 2.54dBi which was choosing for Radiated Spurious Emission test.
The EUT is compliance with IEEE 802.11 a/b/g /n Standard.

This report applies for frequency bands 5150 MHz– 5250 MHz, 5250MHz-5350MHz and 5470 MHz– 5725 MHz.

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: AK8SGPT1211** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and **IC: 409B-SGPT1211** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 9. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) & DA 02 2138 published on 08, 30, 2002. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Public Notice DA 02-2138 for compliance to FCC 47CFR 15.407 requirements

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003, conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." Is still within the 3Db illumination BW of the measurement antenna. According to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

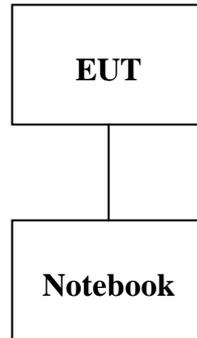


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	DELL	E5400	3704625136	Un-shielded	Un-shielded

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207 RSS-Gen §7.2.4	AC Power Line Conducted Emission	Compliant
§15.407(a) RSS 210 A9.2 RSS-Gen §4.6.3	26 dB Emission Bandwidth	Compliant
§15.407(a) RSS 210 A9.2(1)(2)(3)	Peak Output Power Measurement	Compliant
§15.407(a) RSS 210 A9.2(1)(2)(3)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b) RSS 210 A9.2(1)(2)(3)	Undesirable Emission – Con- ducted Measurement	Compliant
§15.407(b) RSS 210 A9.3(1)(2)(3)	Undesirable Emission – Radiated Measurement	Compliant
§15.407(c) RSS 210 A9.4(4)	Transmission in case of Absence of Information	Compliant
§15.407(g) RSS 210 A9.5(5)	Frequency Stability	Compliant
§15.407(a) RSS-210 issue 8, §A8.4	Antenna Requirement	Compliant
§15.407(d) RSS 210 A9.3	TPC and DFS Measurement	Compliant

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting mode is programmed.

a mode:

5150MHz-5250MHz: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest(5260MHz) 、Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: Channel lowest(5500MHz) 、Mid(5580MHz) and Highest(5700MHz) and with 6Mbps data rate are chosen for full testing.

n HT 20 mode :

5150MHz-5250MHz: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest(5260MHz) 、Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: Channel lowest(5500MHz) 、Mid(5580MHz) and Highest(5700MHz)with 6.5Mbps data rate are chosen for full testing

n HT 40 mode :

5150MHz-5250MHz: Channel lowest(5190MHz) and Highest(5230MHz).

5250MHz-5350MHz: Channel lowest(5270MHz) and Highest(5310MHz).

5470MHz-5725MHz: Channel lowest(5510MHz) 、Mid(5590MHz) and Highest(5670MHz)with 13.5Mbps data rate are chosen for full testing

5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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6. AC POWER LINE CONDUCTED EMISSION TEST

6.1. Standard Applicable

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150 KHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

6.3. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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6.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2011	09/22/2012
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2012	03/22/2013
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2012	03/22/2013
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2012	01/05/2013

6.5. Measurement Result

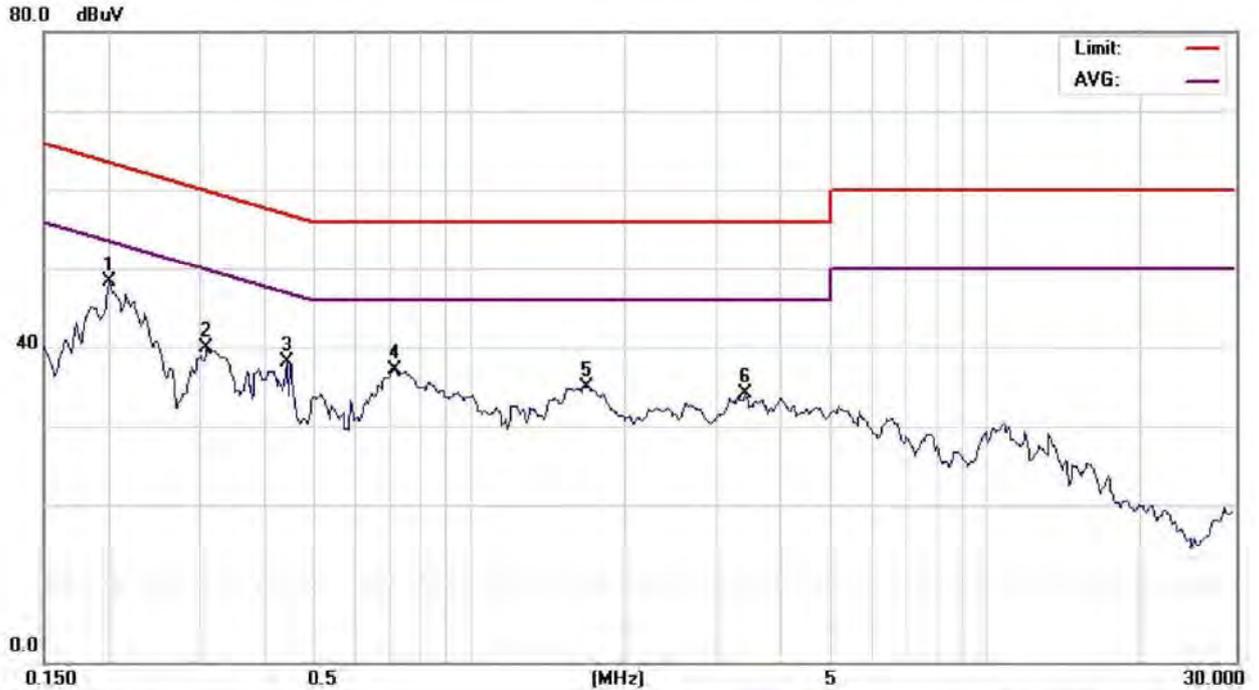
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode			Test Date:	Jun. 14, 2012
Temperature:	26 °C	Humidity:	60 %	Test By:	Jimmy



Site	ConductionRoom	Phase:	L1	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	Tablet Device	Distance:			
M/N:	SGPT1211				
Mode:	Operation Mode				
Note:					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.2008	48.04	0.21	48.25	63.58	-15.33	peak	
2		0.3103	39.77	0.21	39.98	59.96	-19.98	peak	
3		0.4432	37.97	0.22	38.19	57.00	-18.81	peak	
4		0.7190	36.86	0.22	37.08	56.00	-18.92	peak	
5		1.6886	34.61	0.24	34.85	56.00	-21.15	peak	
6		3.4208	33.78	0.28	34.06	56.00	-21.94	peak	

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Site	ConductionRoom	Phase:	N	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	Tablet Device	Distance:			
M/N:	SGPT1211				
Mode:	Operation Mode				
Note:					

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2047	46.54	0.31	46.85	63.42	-16.57	peak	
2		0.3025	40.13	0.32	40.45	60.17	-19.72	peak	
3		0.7150	38.23	0.32	38.55	56.00	-17.45	peak	
4		1.7082	36.36	0.33	36.69	56.00	-19.31	peak	
5		3.4325	36.51	0.34	36.85	56.00	-19.15	peak	
6		11.3420	34.00	0.50	34.50	60.00	-25.50	peak	

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7. 26dB and 99%EMISSION BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §15.407(a). No Limit required.

According to RSS 210 A9.2(1), No Limit required

RSS-Gen §4.4.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

7.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW =3* RBW, Span= 50MHz, Sweep=auto
4. Mark the peak frequency and -26dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

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7.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/17/2012	03/16/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013

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7.4 Measurement Result

26dB Bandwidth

802.11a, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.43	12.88
5220	19.29	12.85
5240	19.31	12.86

802.11a, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.49	12.90
5300	19.40	12.88
5320	19.36	12.87

802.11a, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.39	12.88
5580	19.56	12.91
5700	19.41	12.88

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	20.30	13.07
5220	19.95	13.00
5240	20.24	13.06

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	20.13	13.04
5300	20.33	13.08
5320	20.34	13.08

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.97	13.00
5580	20.17	13.05
5700	20.14	13.04

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	38.99	15.91
5230	39.05	15.92

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	39.07	15.92
5310	39.14	15.93

802.11n HT40, 5470~5725 MHz

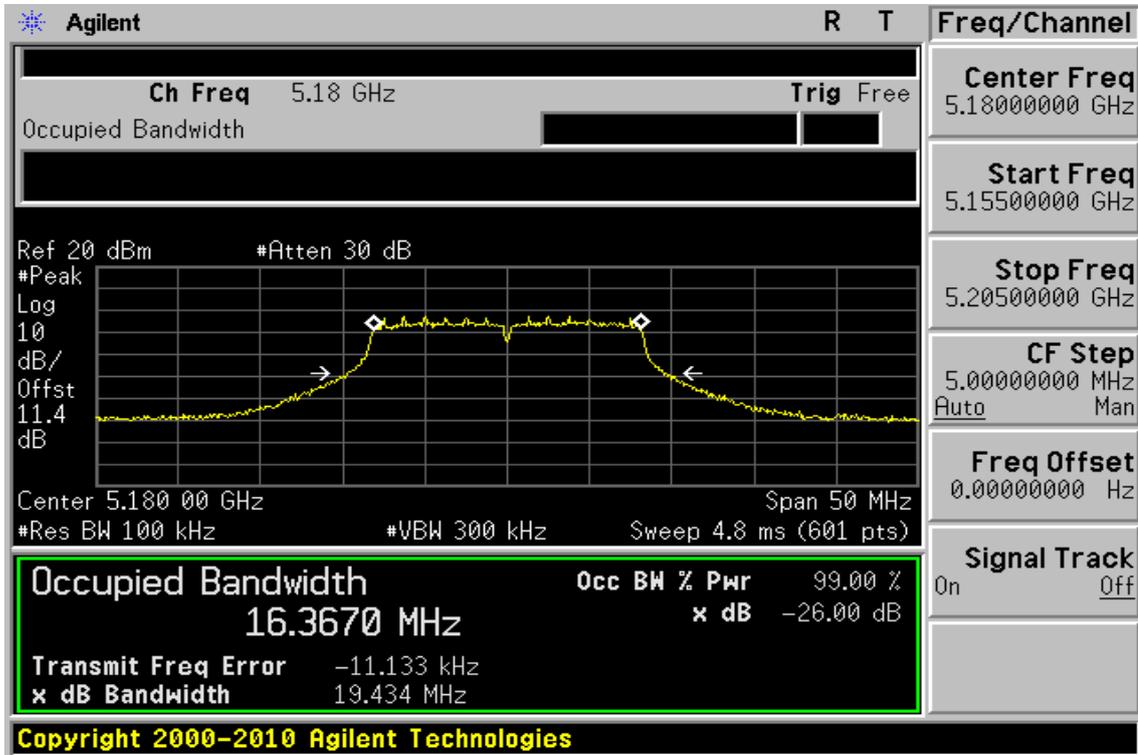
Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	39.60	15.98
5590	39.13	15.93
5670	39.38	15.95

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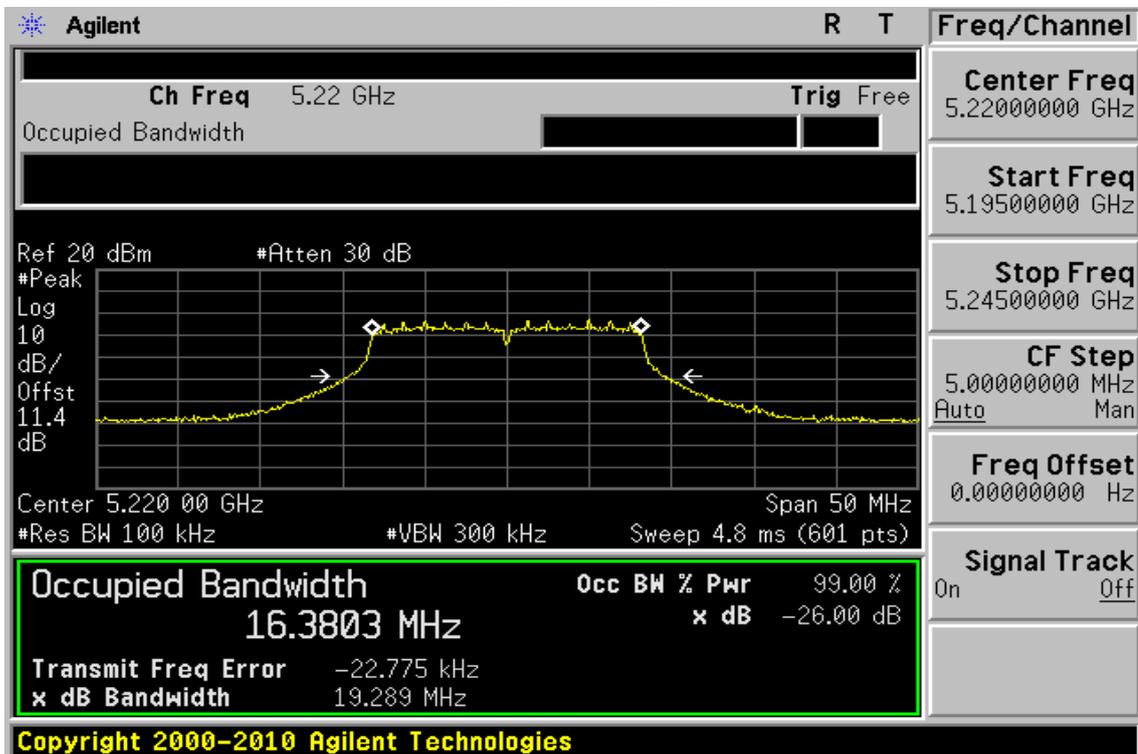
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802.11a, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180MHz)



26dB Band Width Test Data CH-Mid (5220MHz)

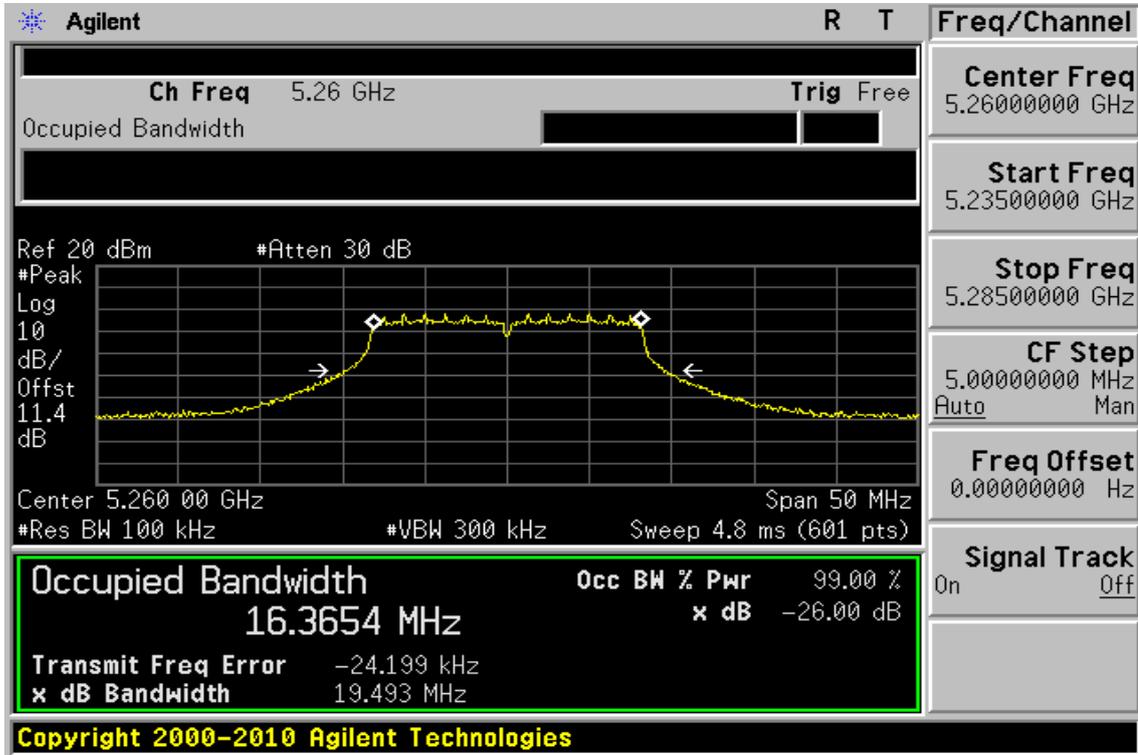


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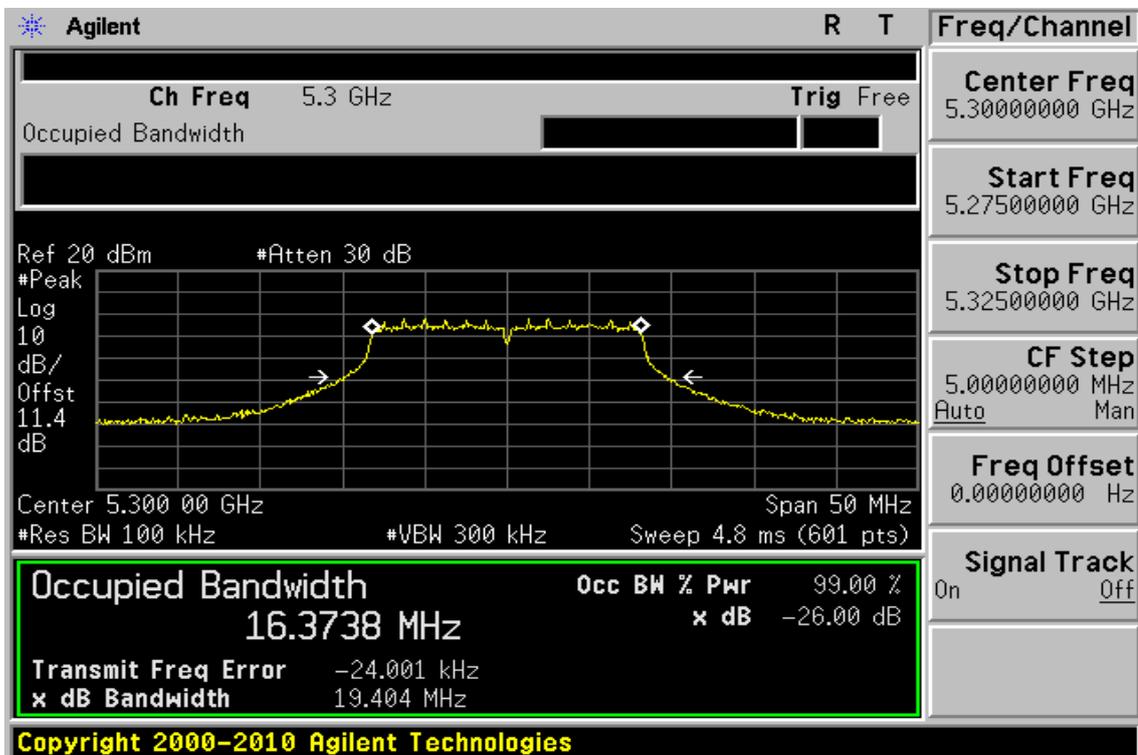
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802.11a, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260MHz)



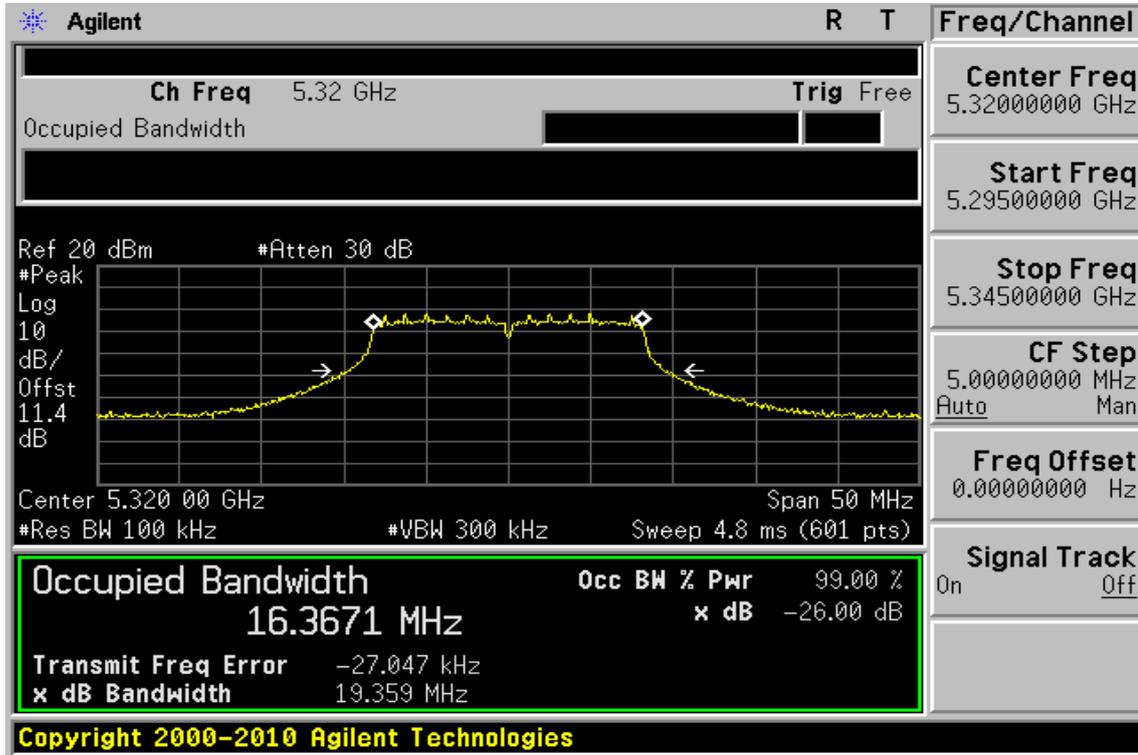
26dB Band Width Test Data CH-Mid (5300MHz)



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26dB Band Width Test Data CH-High (5320MHz)

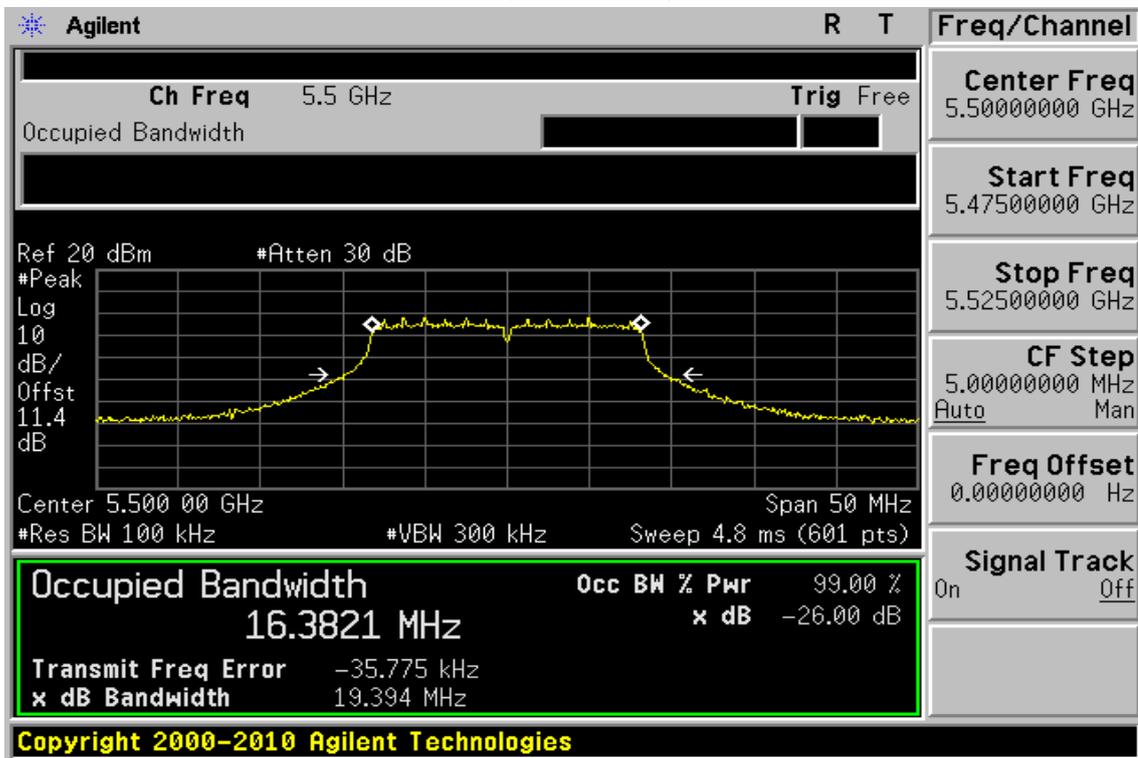


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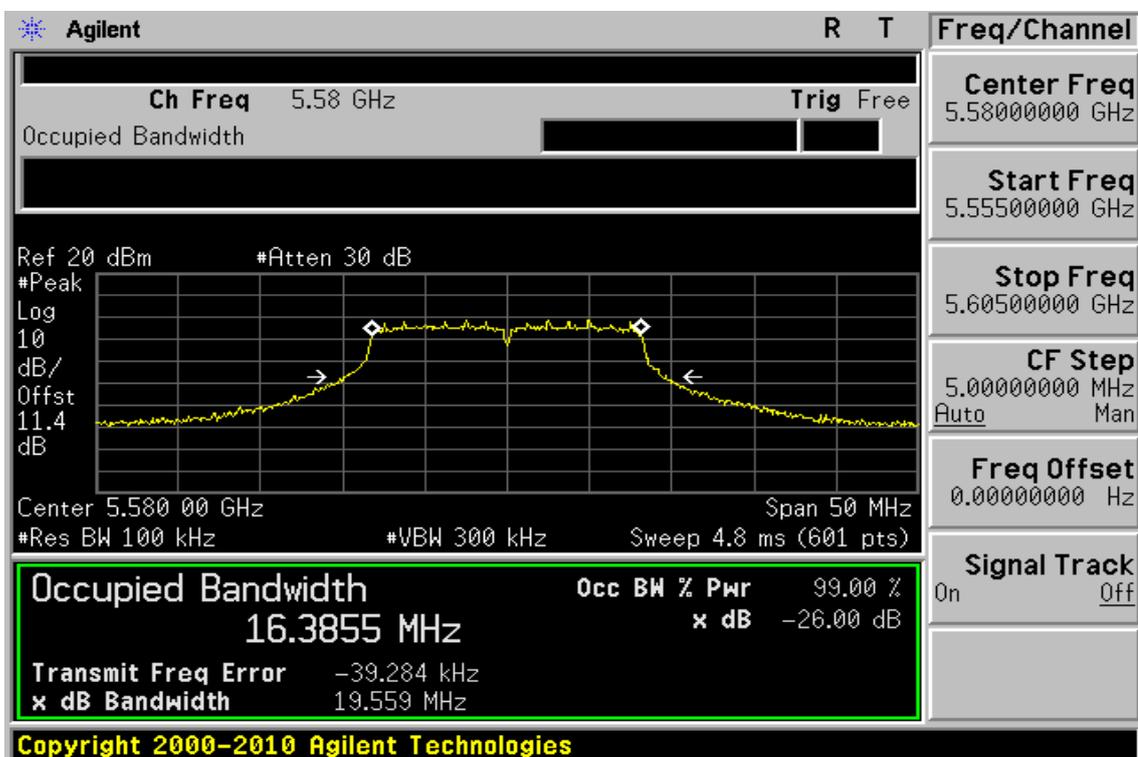
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802.11a, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5500MHz)



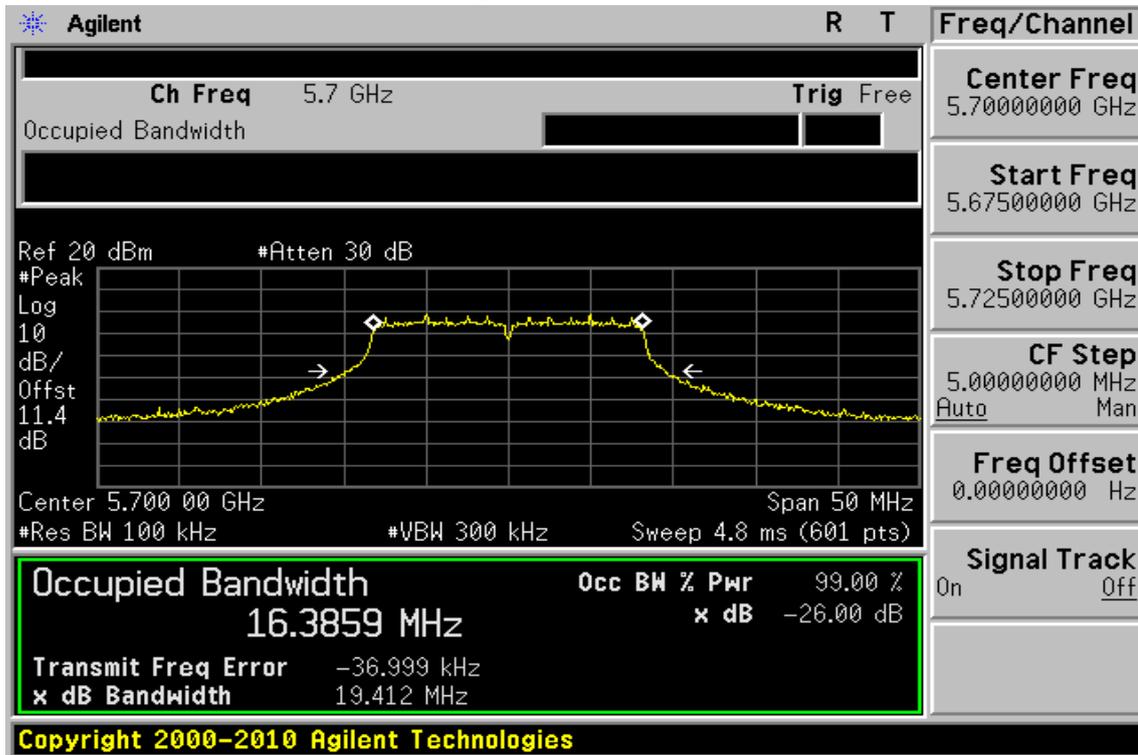
26dB Band Width Test Data CH-Mid (5580MHz)



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26dB Band Width Test Data CH-High (5700MHz)

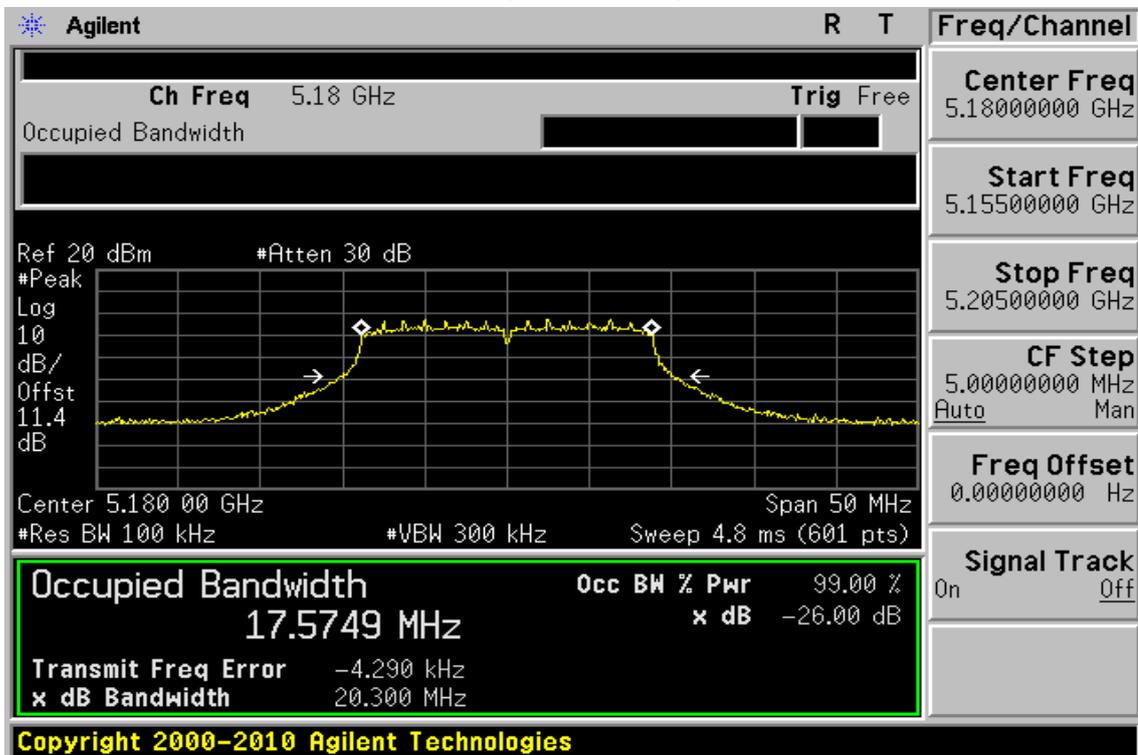


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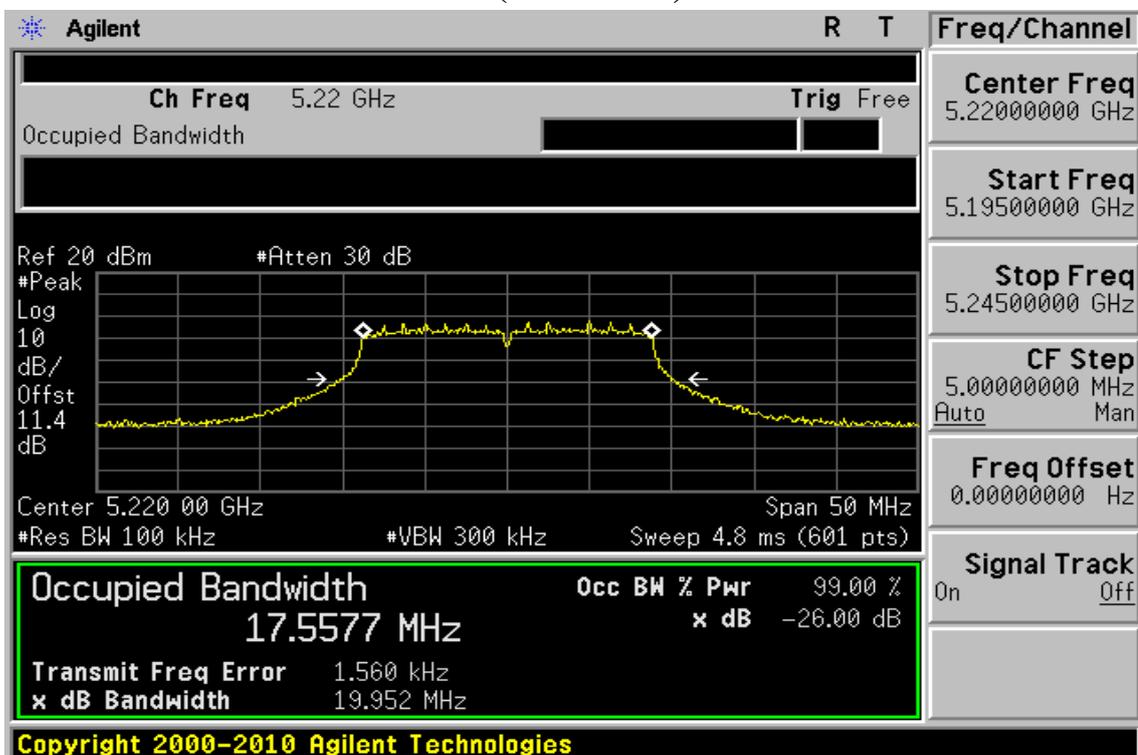
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802.11n HT20, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180 MHz)



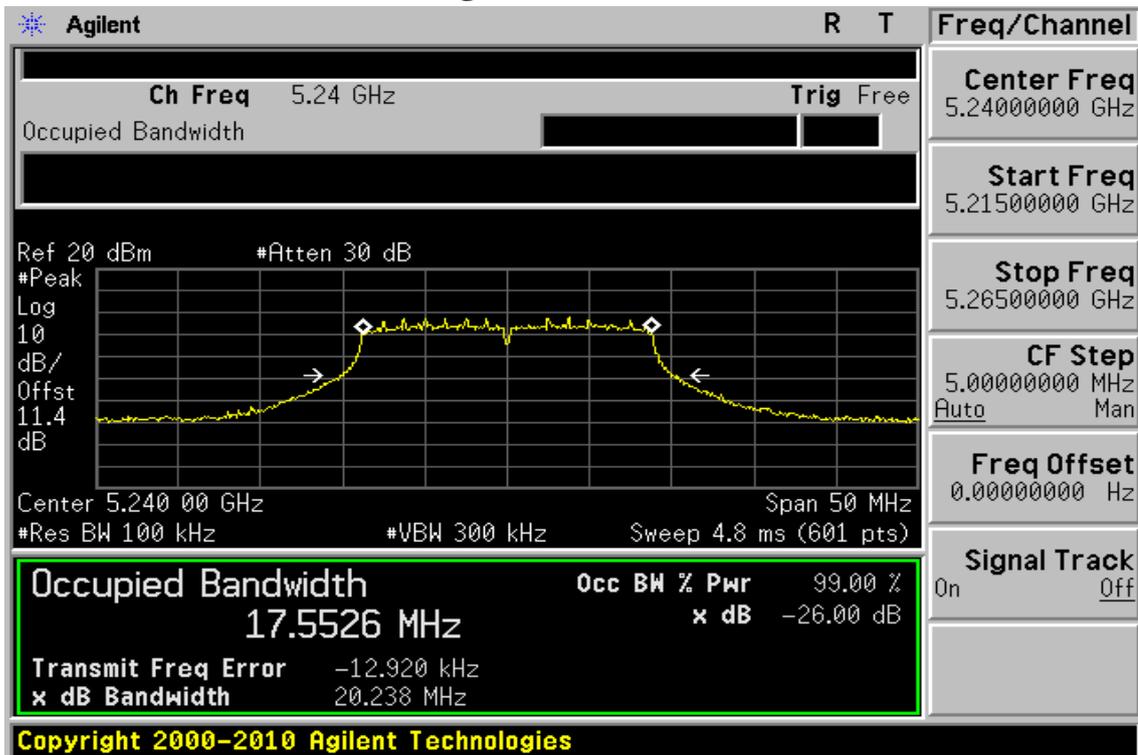
26dB Band Width Test Data CH-Mid (5220 MHz)



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26dB Band Width Test Data CH-High (5240 MHz)

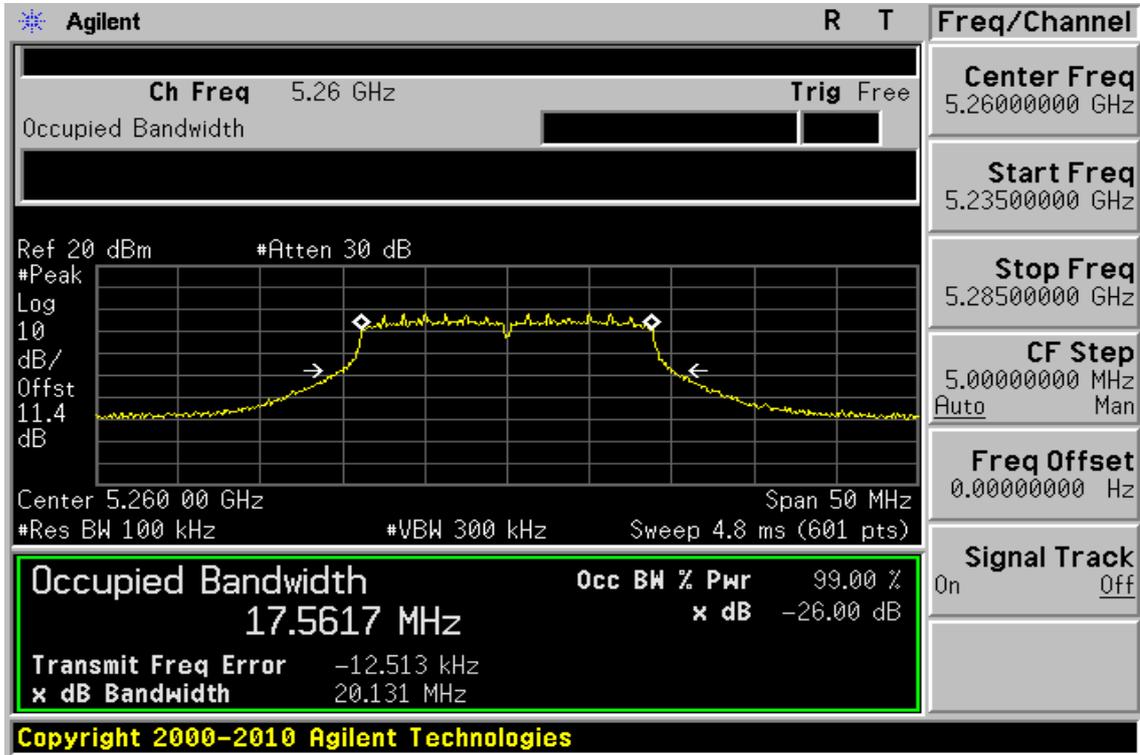


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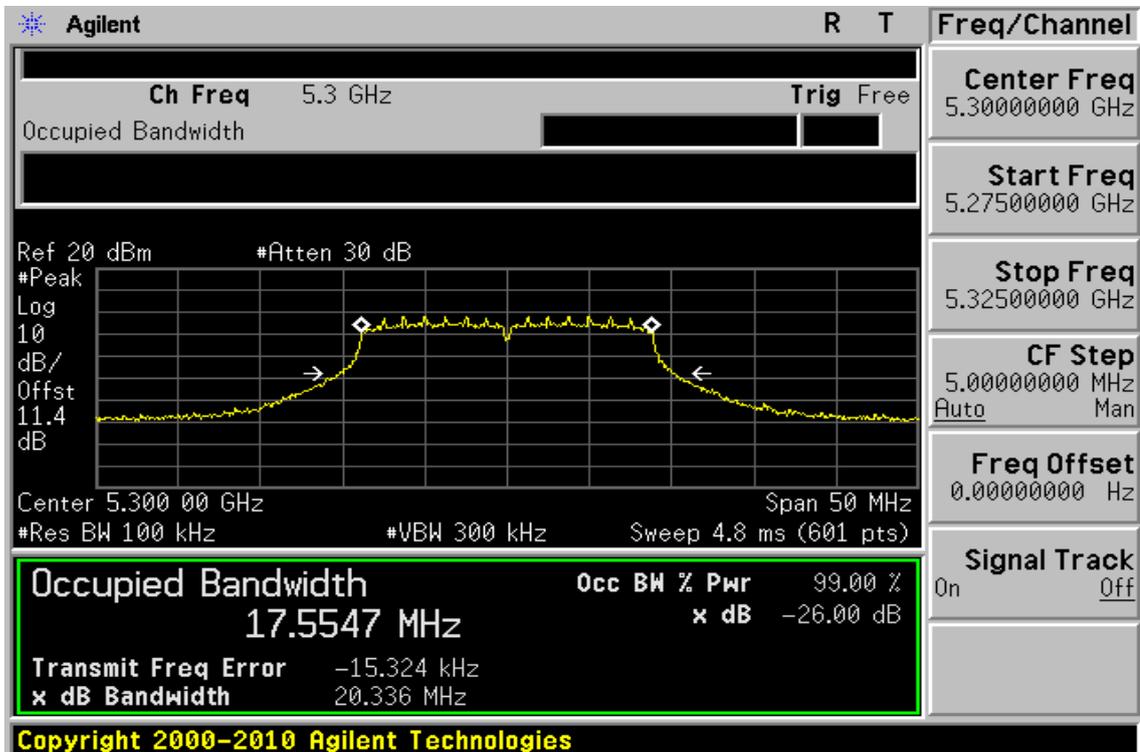
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802.11n HT20, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260 MHz)



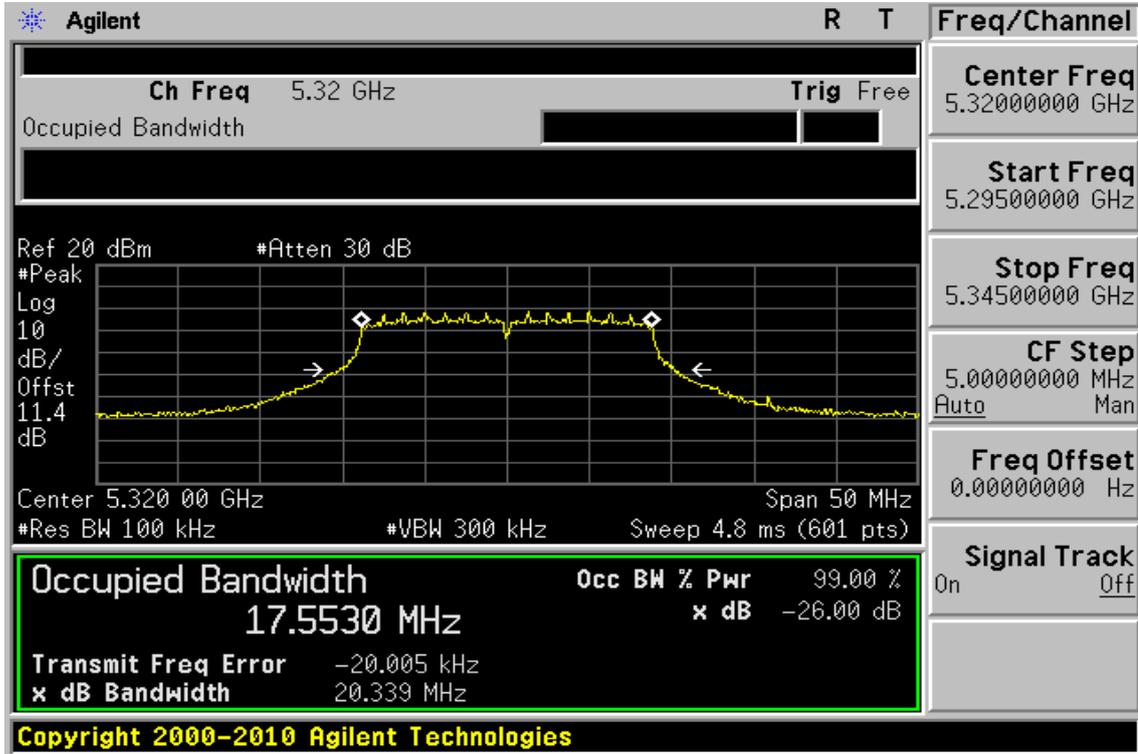
26dB Band Width Test Data CH-Mid (5300 MHz)



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26dB Band Width Test Data CH-High (5320 MHz)

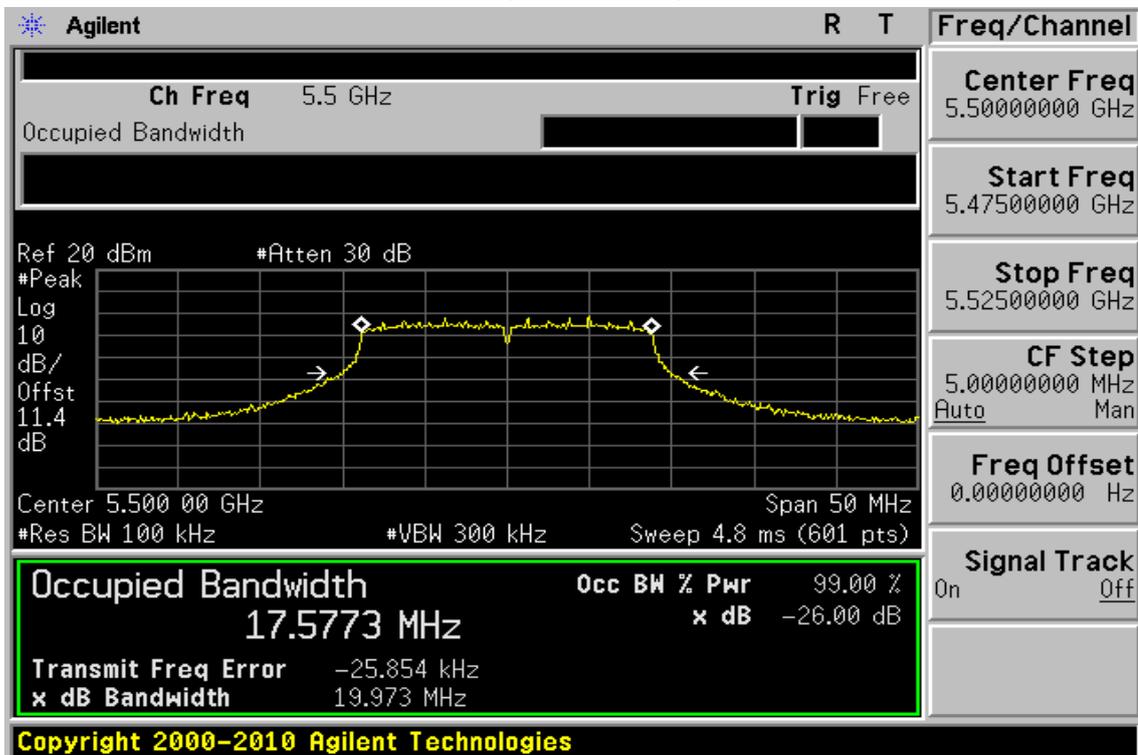


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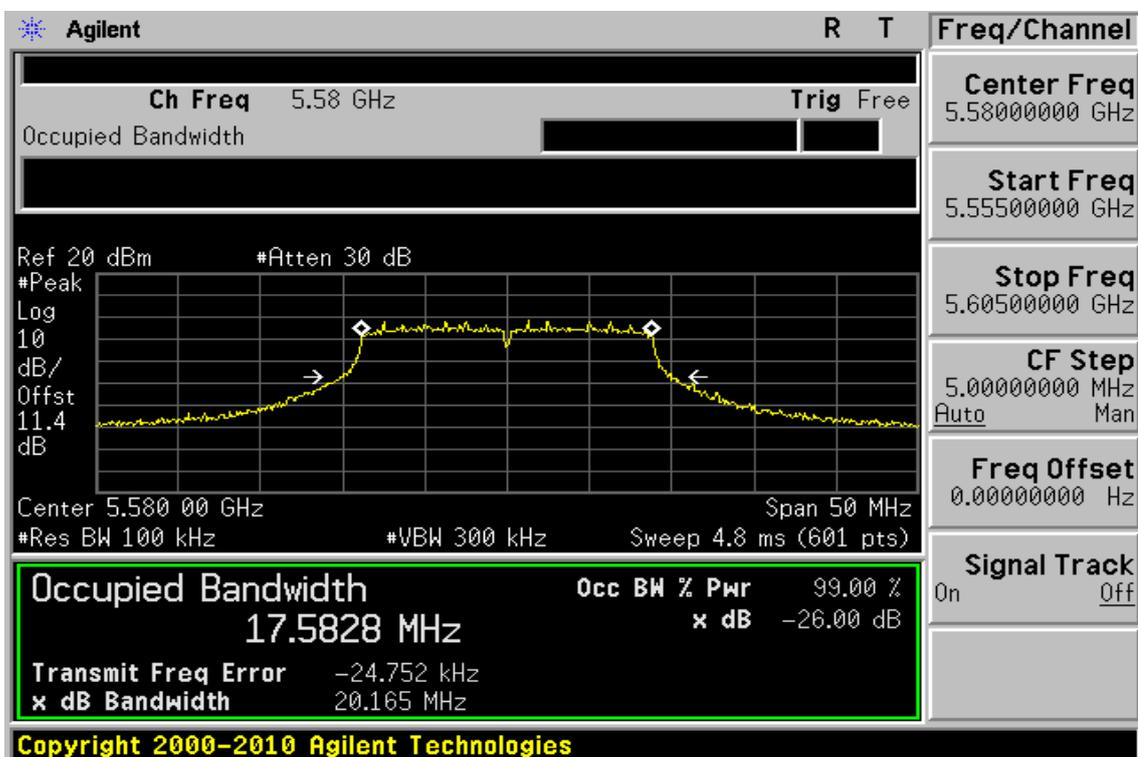
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802.11n HT20, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5500 MHz)



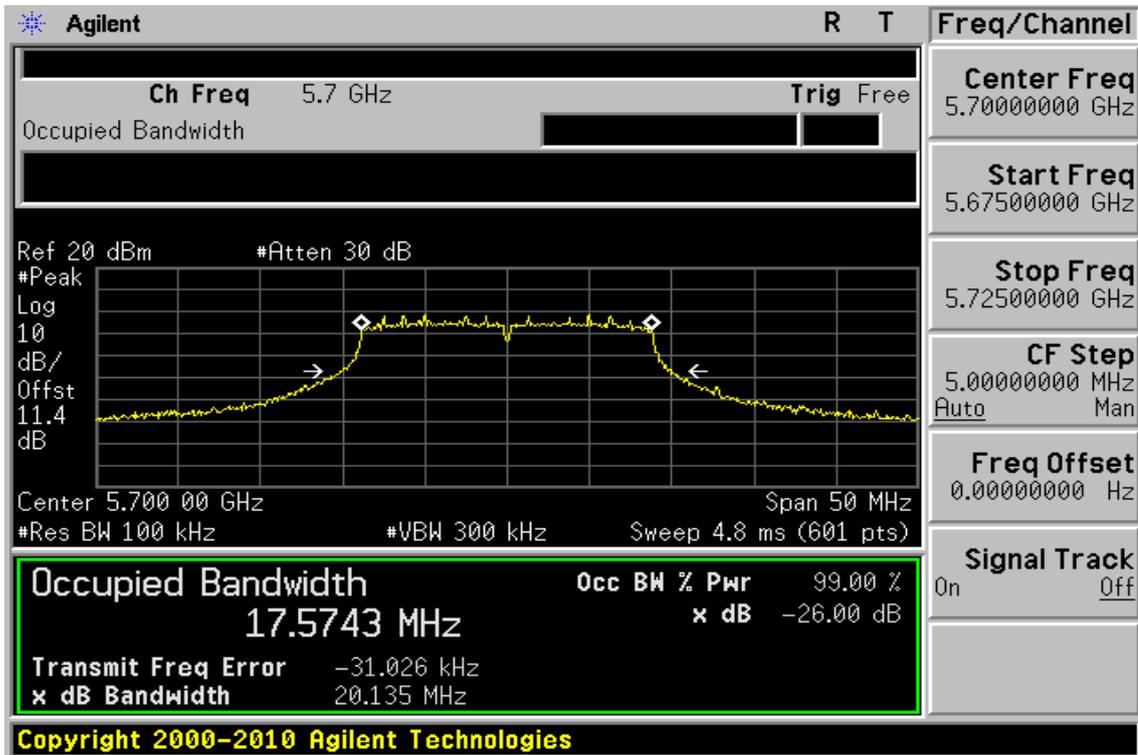
26dB Band Width Test Data CH-Mid (5580 MHz)



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26dB Band Width Test Data CH-High (5700 MHz)

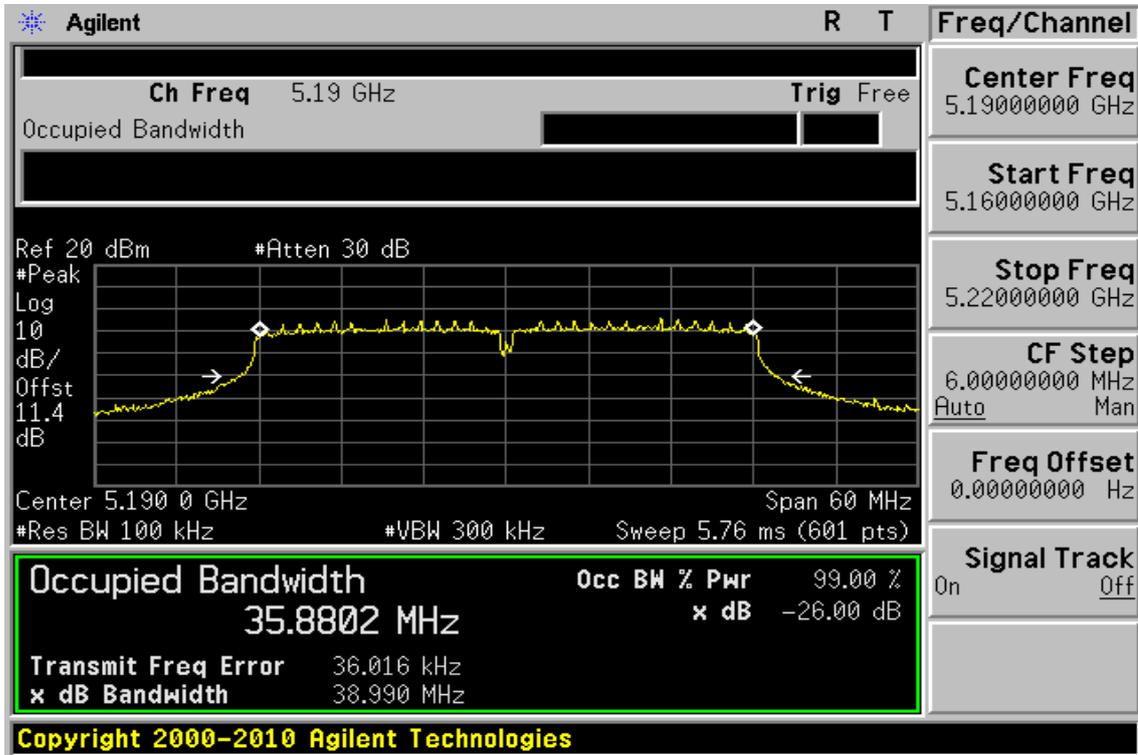


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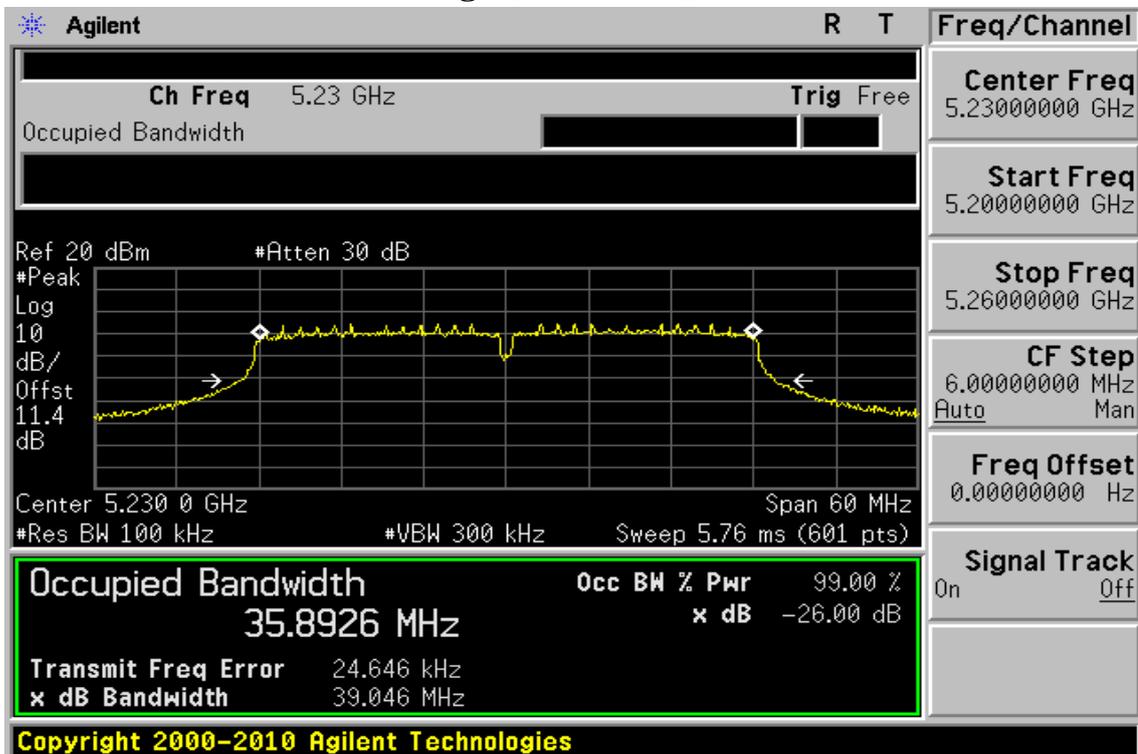
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802.11n HT40, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5190 MHz)



26dB Band Width Test Data CH-High (5230 MHz)

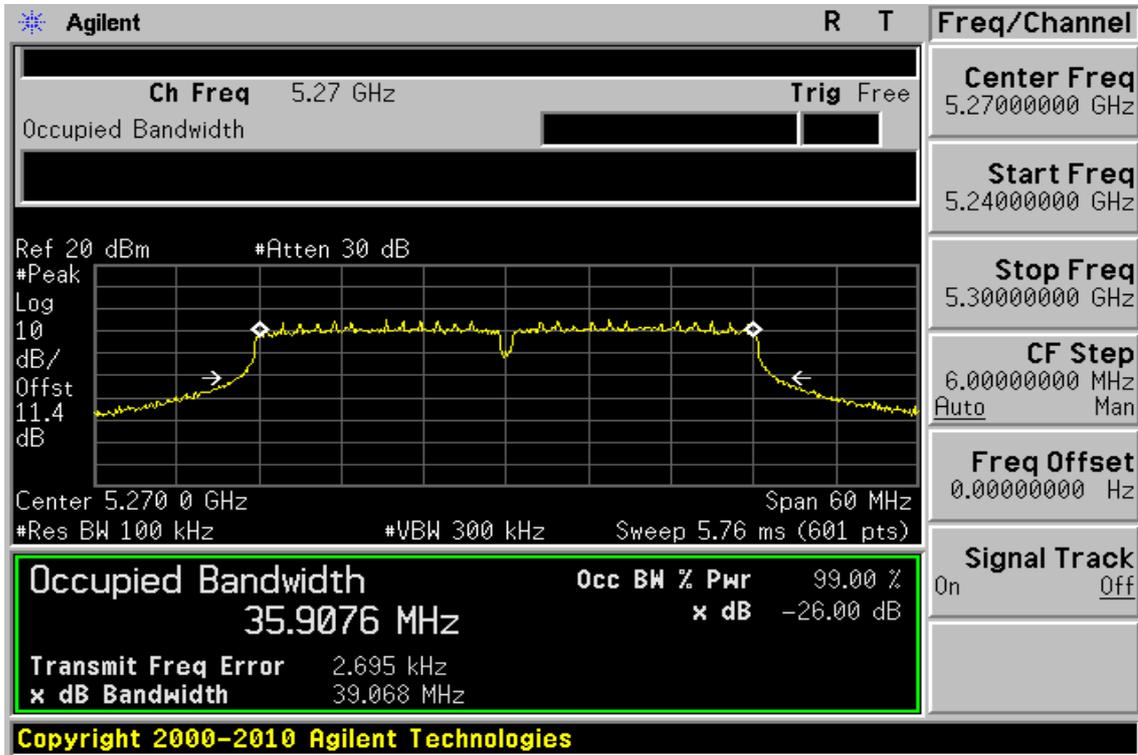


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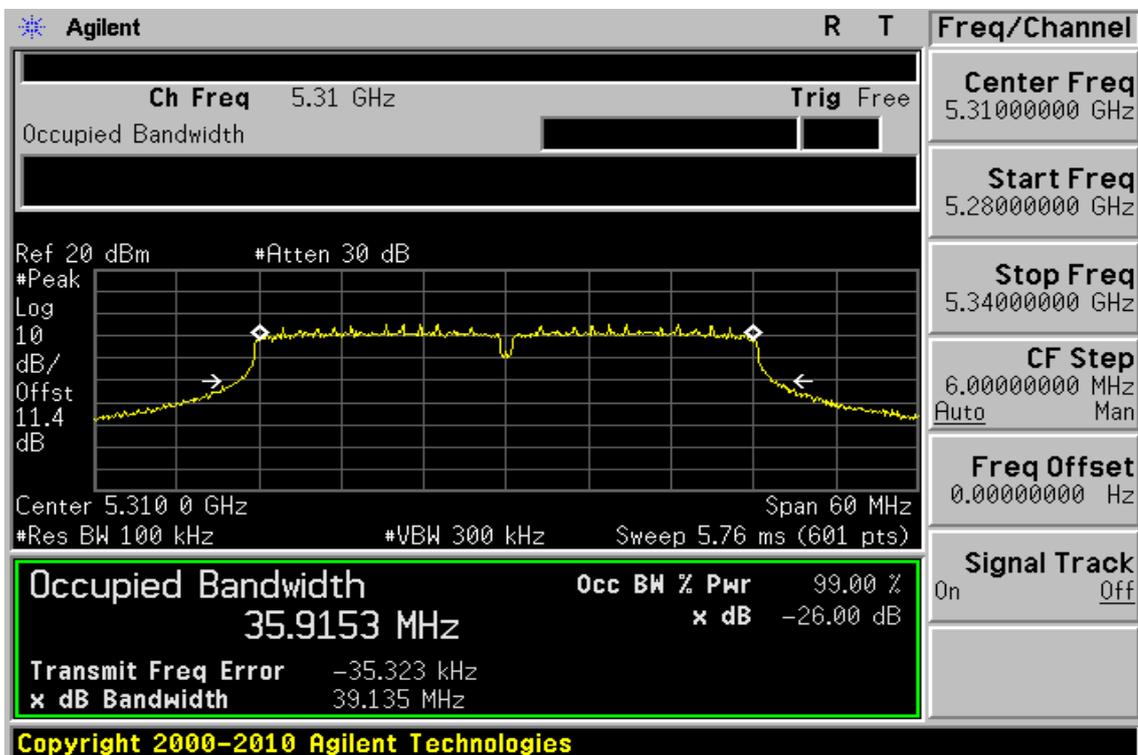
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802.11n HT40, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5310MHz)

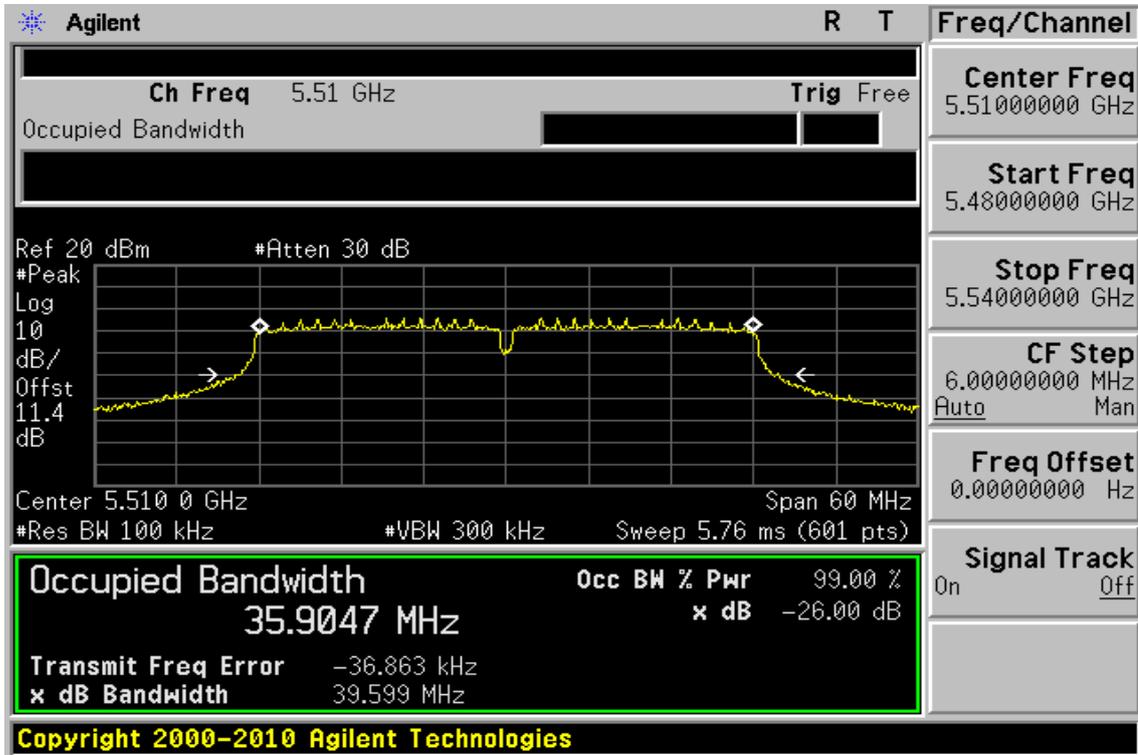


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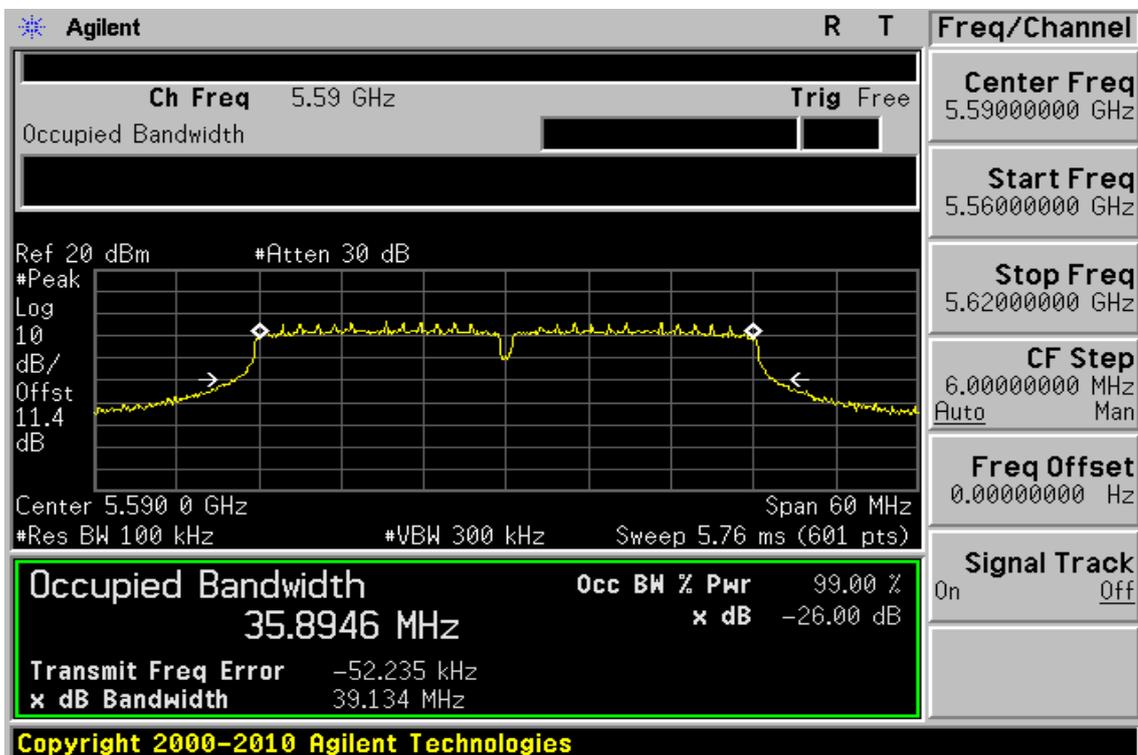
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802.11n HT40, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5510 MHz)



26dB Band Width Test Data CH-Mid (5590 MHz)

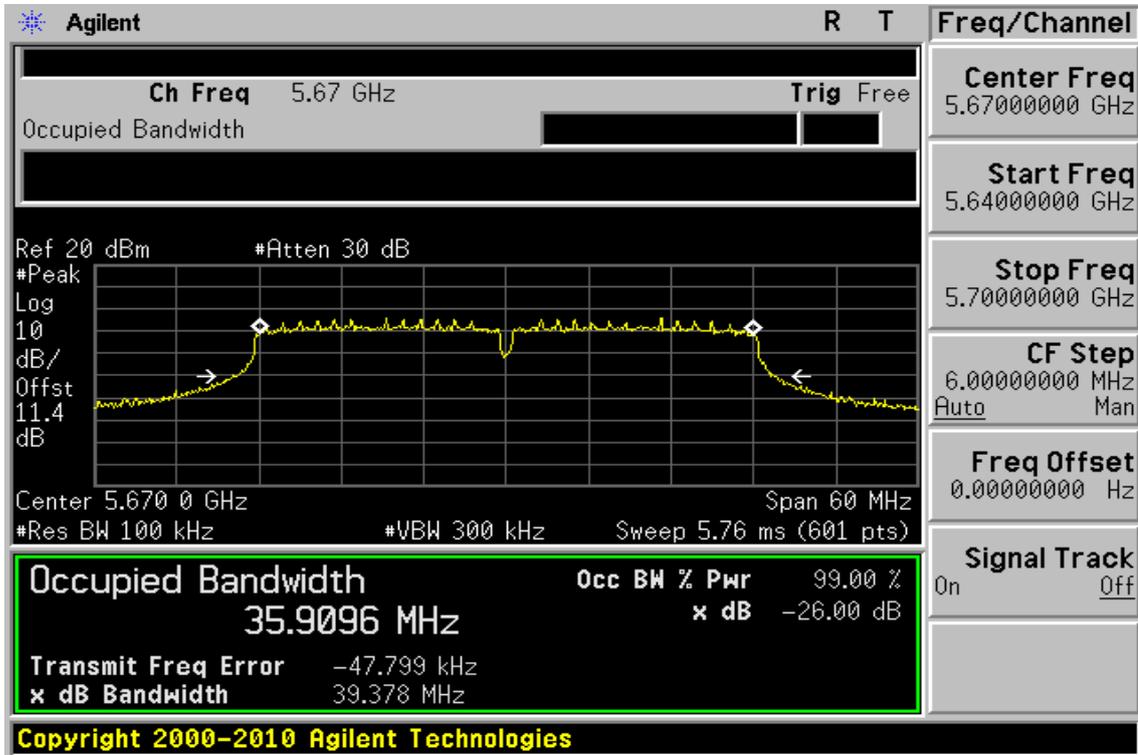


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26dB Band Width Test Data CH-High (5670 MHz)



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7.5 Measurement Result

99% Bandwidth

802.11a, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5180	17.2437
5220	16.9607
5240	16.9341

802.11a, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5260	16.9659
5300	17.0524
5320	16.8591

802.11a, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5500	16.9121
5580	16.9681
5700	17.0057

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5180	18.0071
5220	18.0495
5240	18.0714

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5260	18.0633
5300	18.0069
5320	18.0069

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5500	18.0351
5580	18.0594
5700	18.0492

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5190	36.3722
5230	36.3645

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)
5270	36.1538
5310	36.1743

802.11n HT40, 5470~5725 MHz

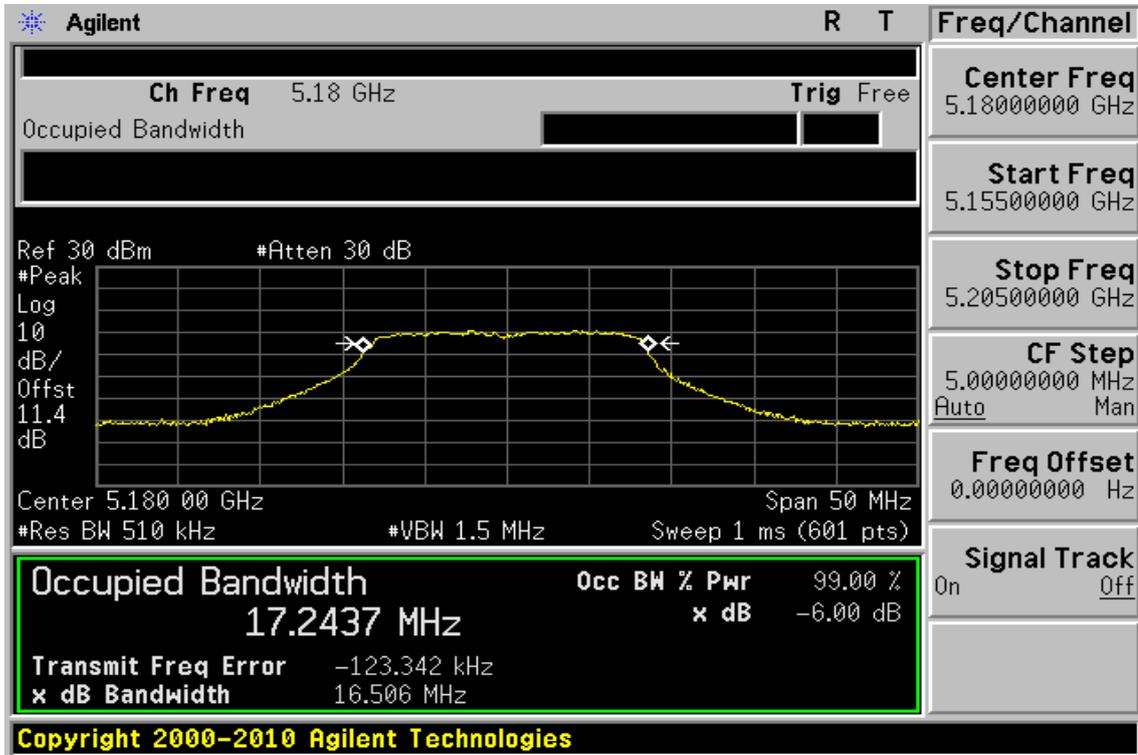
Frequency (MHz)	99% Bandwidth (MHz)
5510	36.2157
5590	36.1070
5670	36.1283

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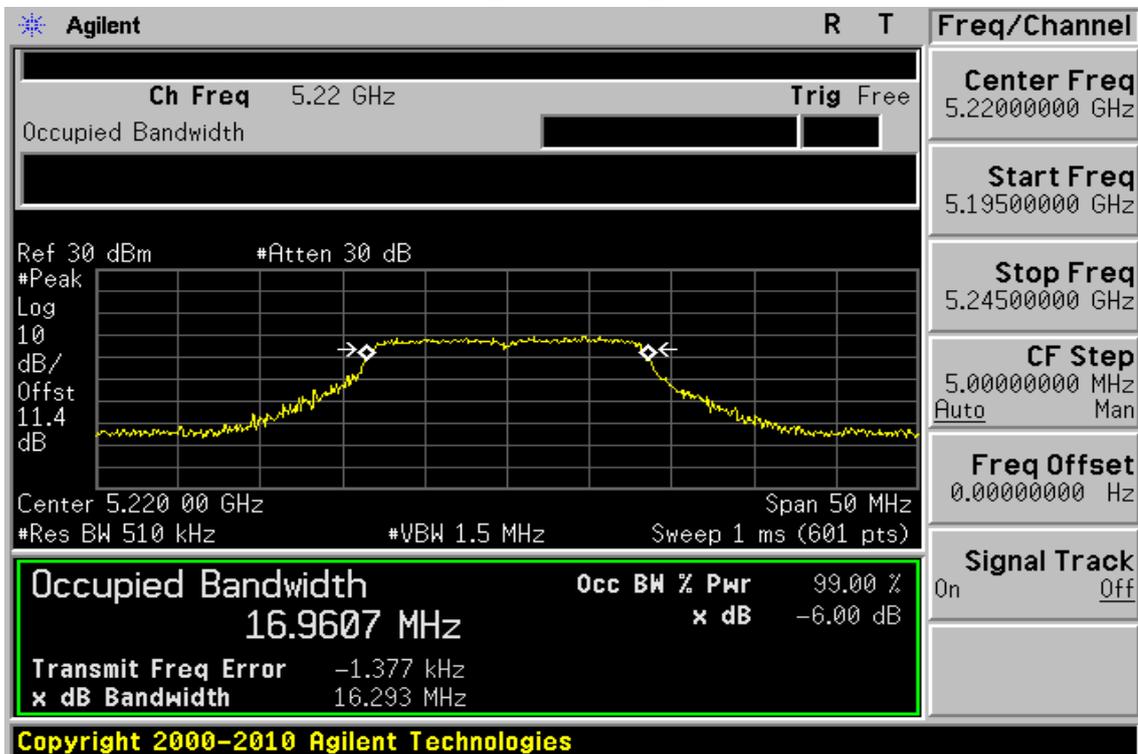
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802.11a, 5150~5250 MHz

99% Band Width Test Data CH-Low (5180MHz)



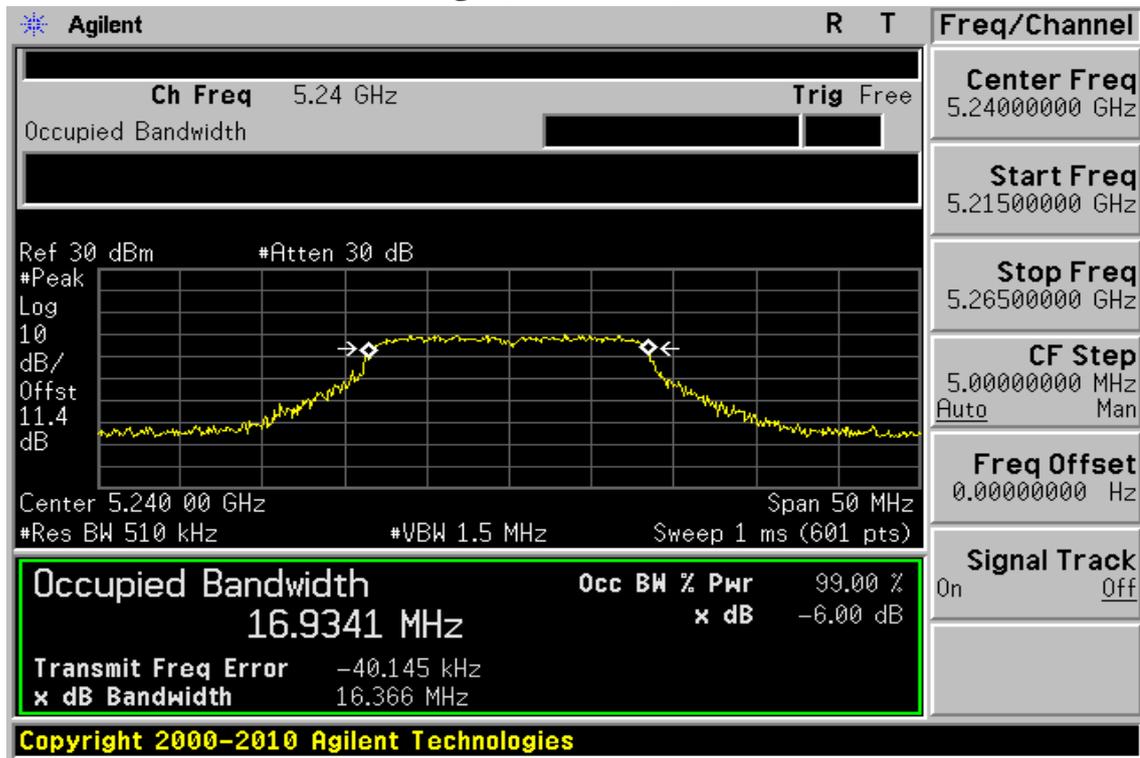
99% Band Width Test Data CH-Mid (5220MHz)



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99% Band Width Test Data CH-High (5240MHz)

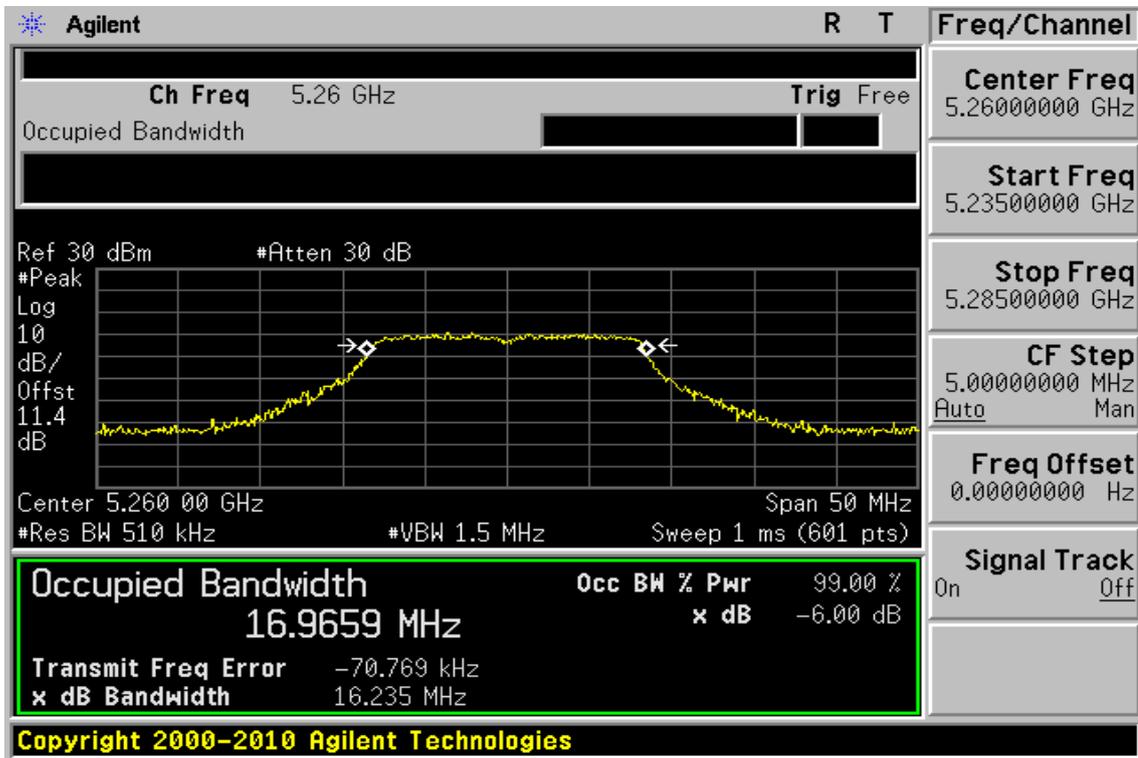


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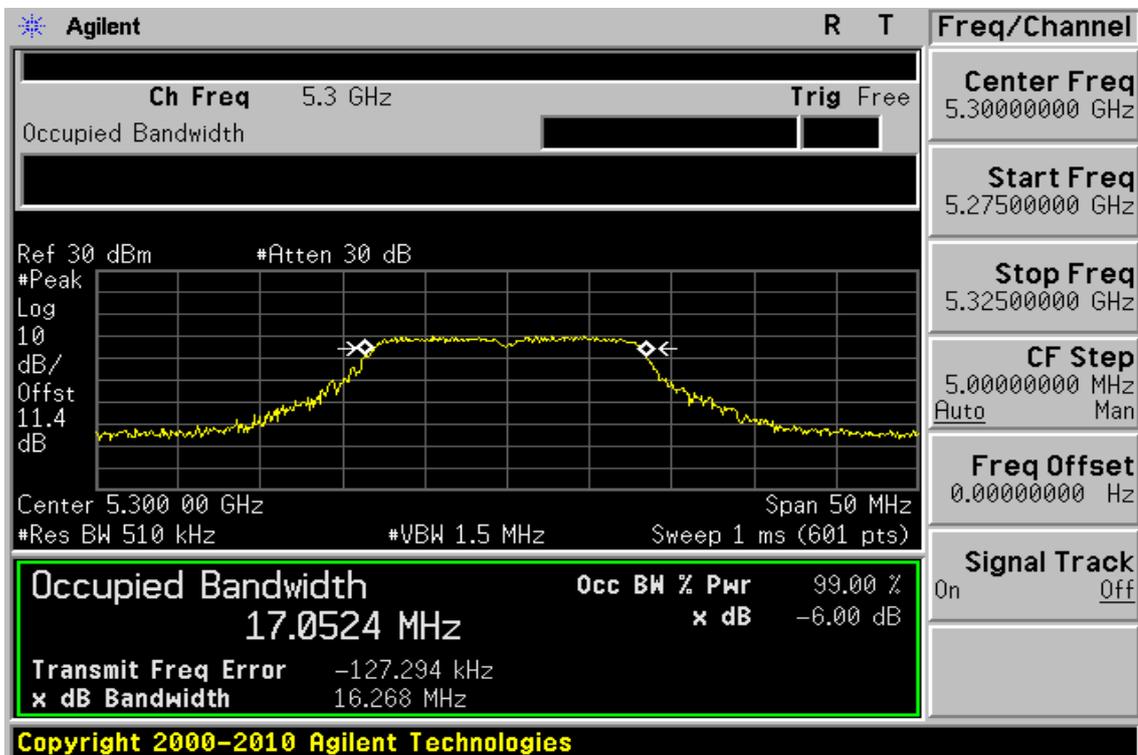
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802.11a, 5250~5350 MHz

99% Band Width Test Data CH-Low (5260MHz)



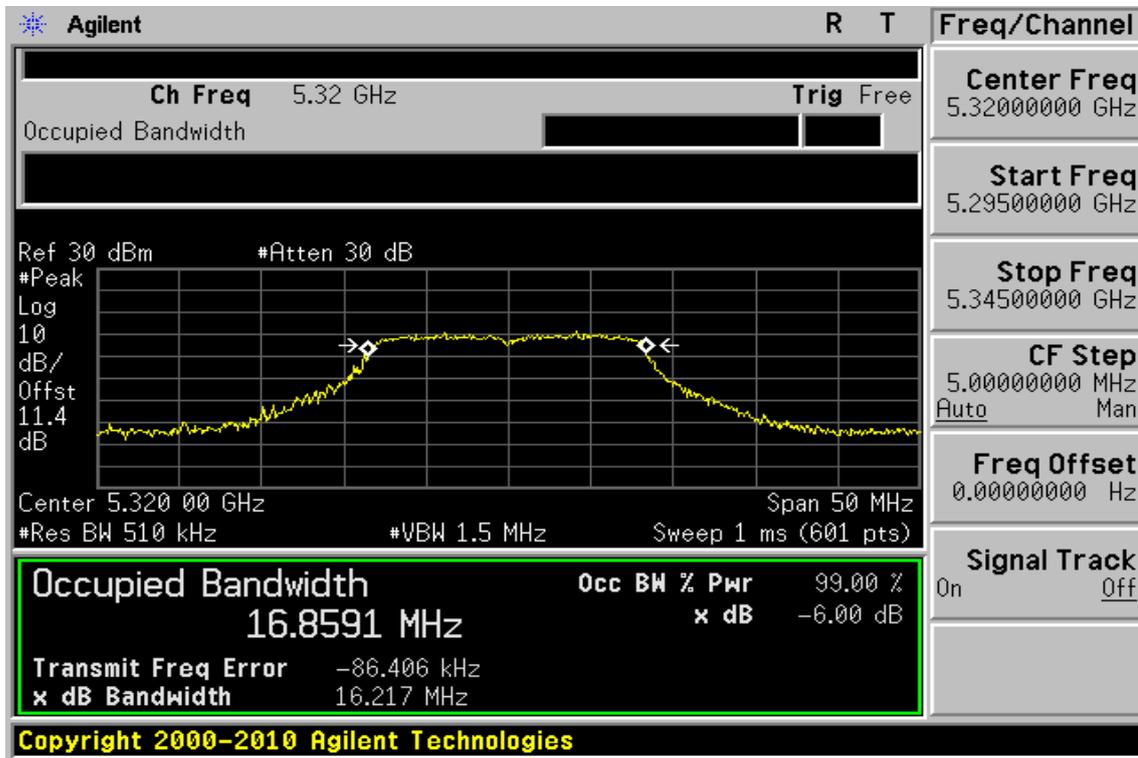
99% Band Width Test Data CH-Mid (5300MHz)



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99% Band Width Test Data CH-High (5320MHz)

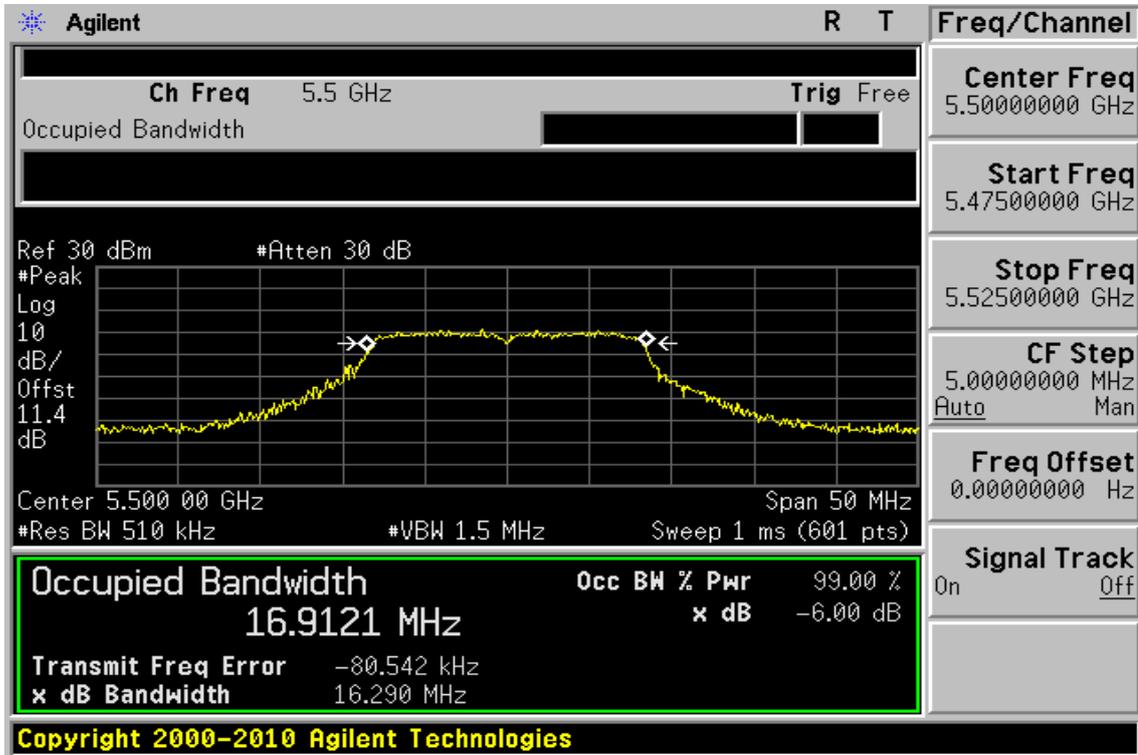


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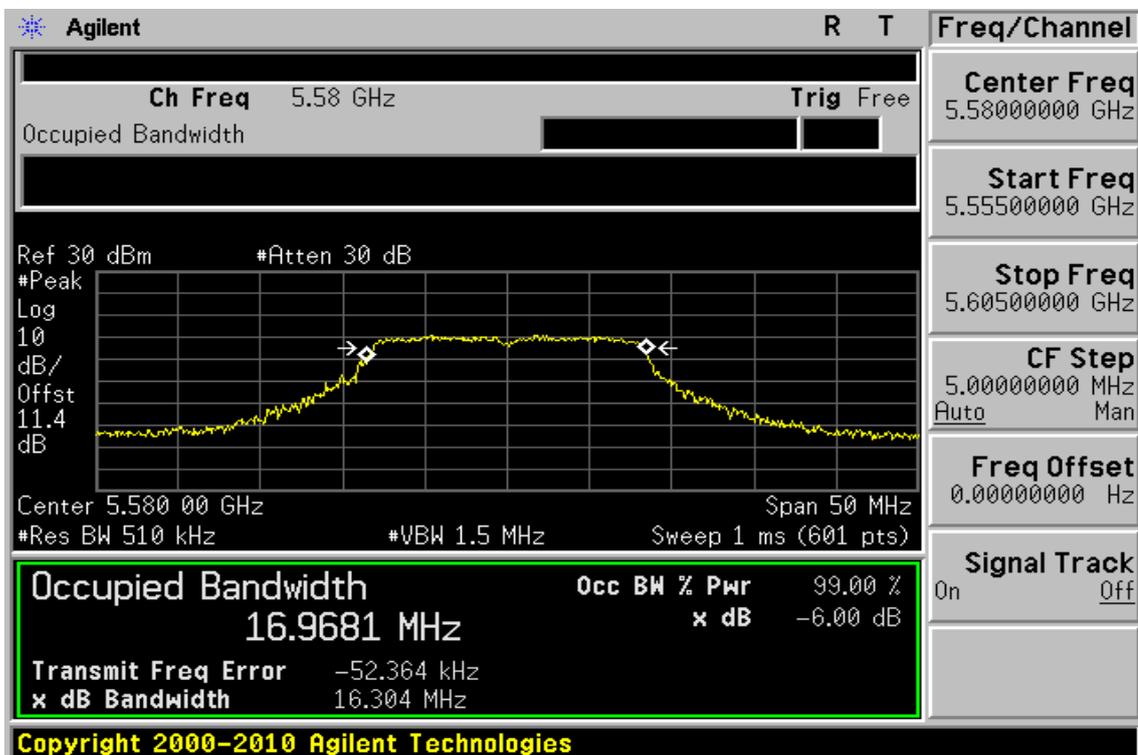
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802.11a, 5470~5725 MHz

99% Band Width Test Data CH-Low (5500MHz)



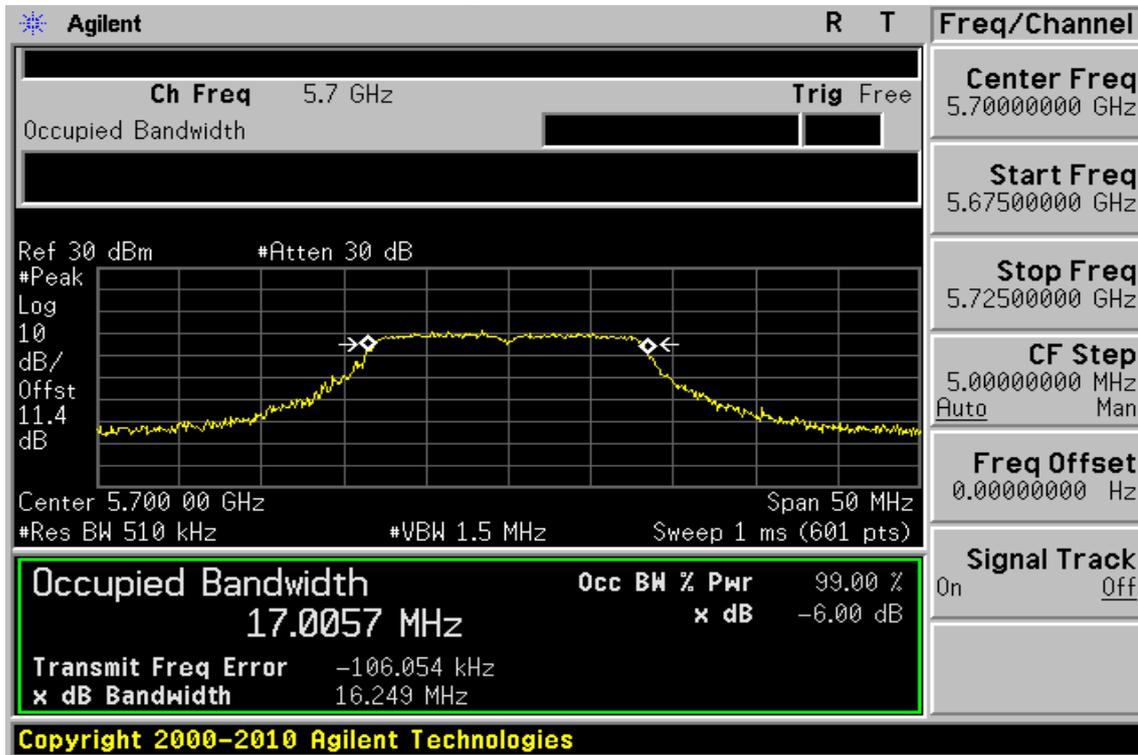
99% Band Width Test Data CH-Mid (5580MHz)



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99% Band Width Test Data CH-High (5700MHz)

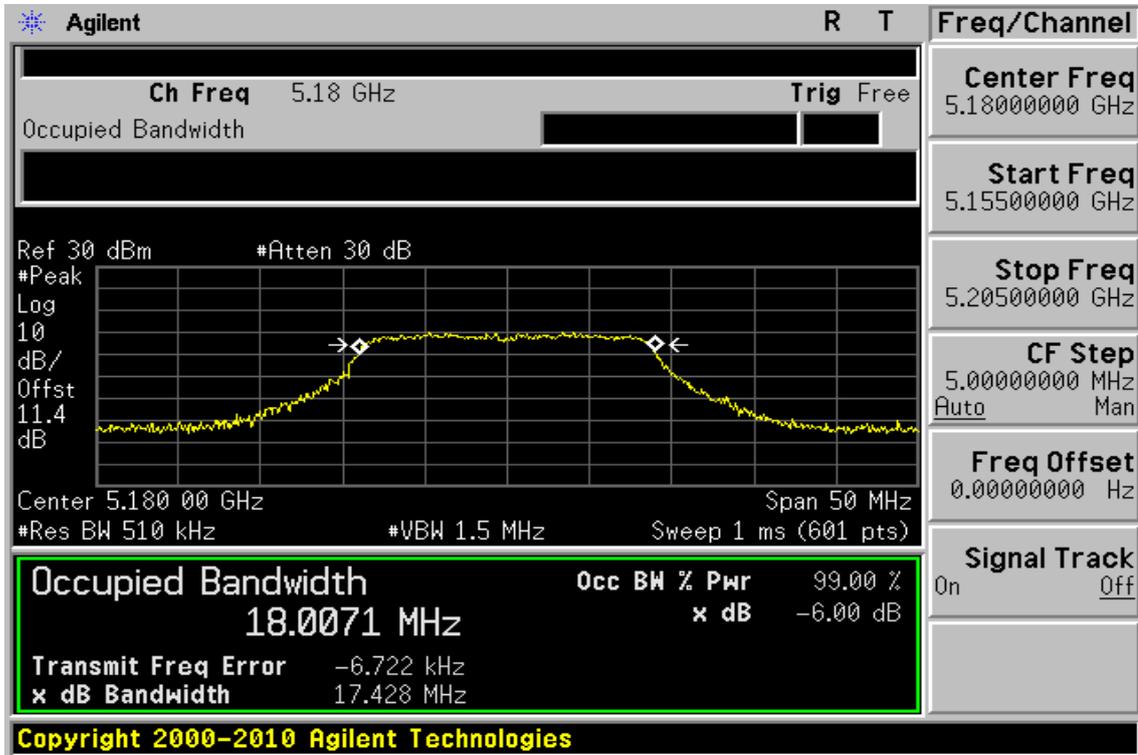


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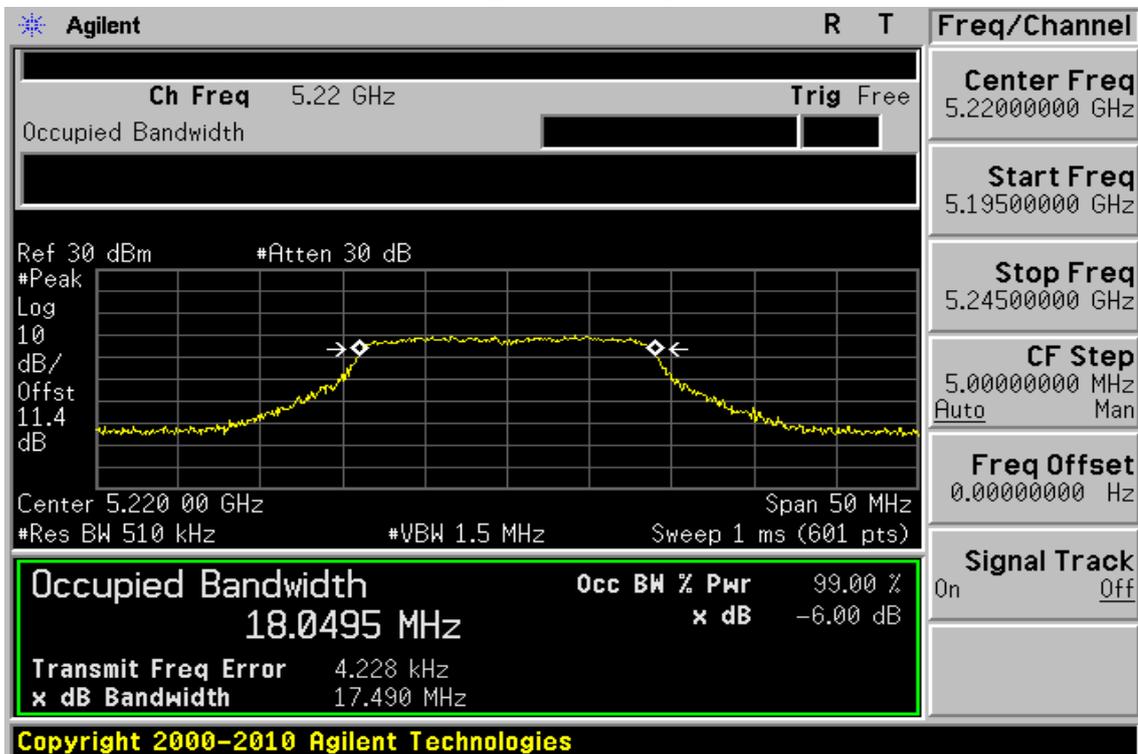
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802.11n HT20, 5150~5250 MHz

99% Band Width Test Data CH-Low (5180 MHz)



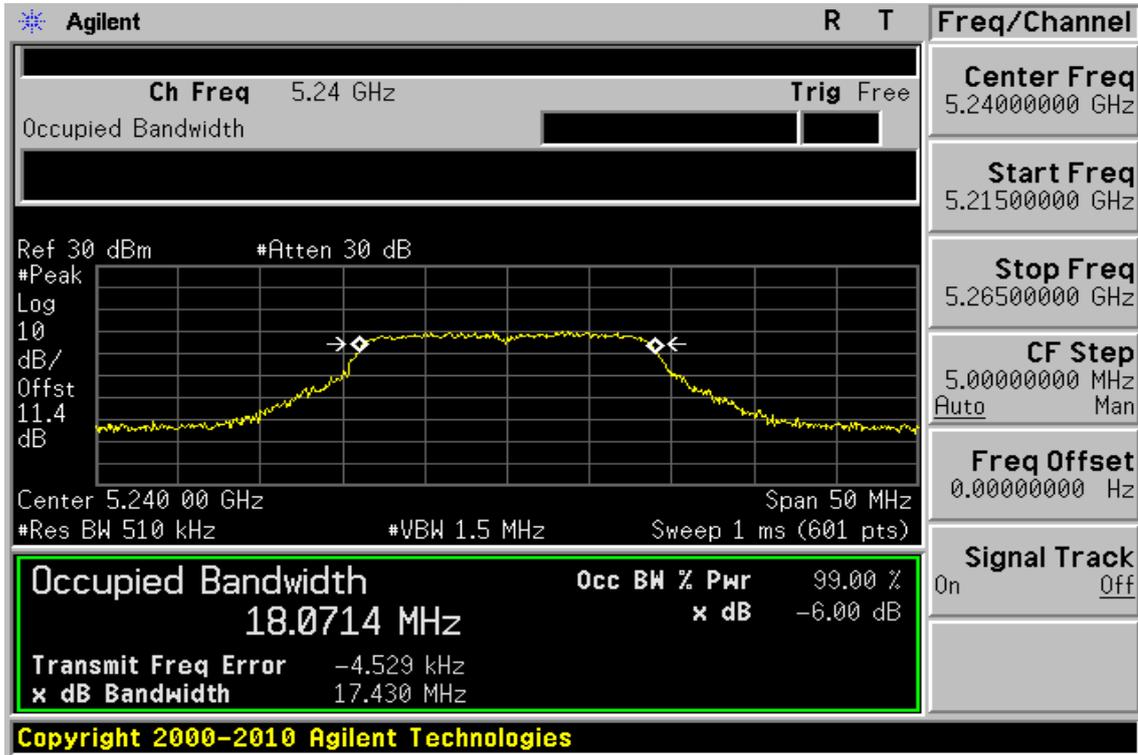
99% Band Width Test Data CH-Mid (5220 MHz)



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99% Band Width Test Data CH-High (5240 MHz)

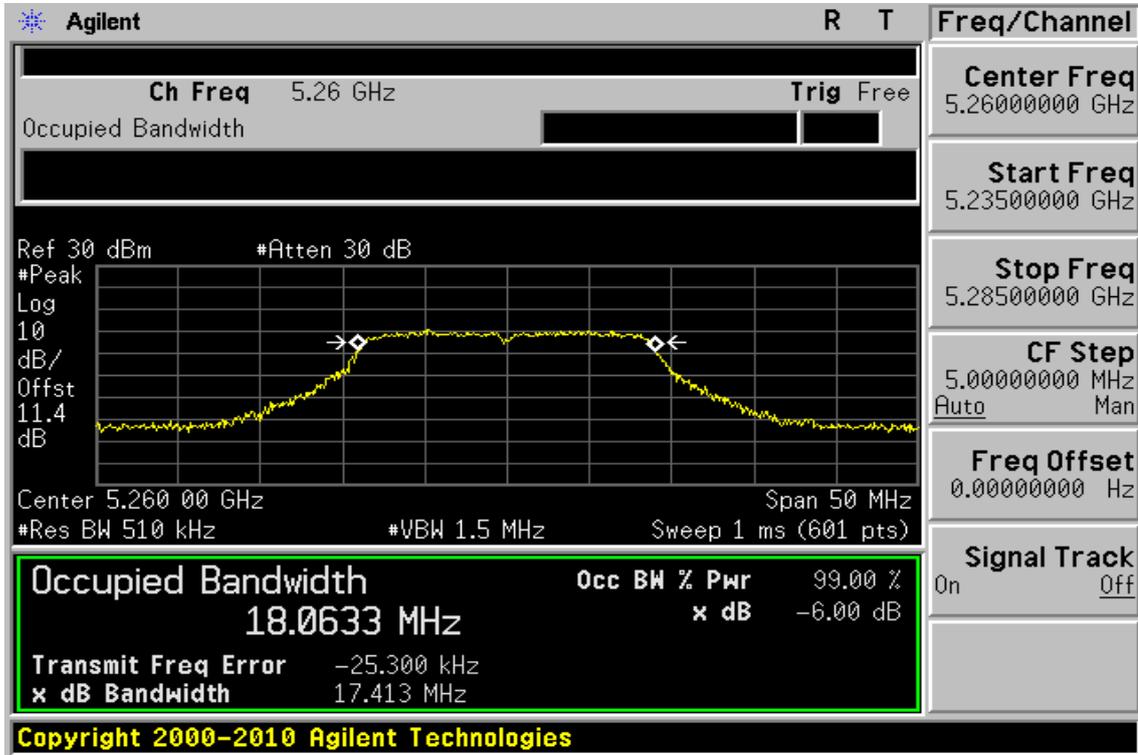


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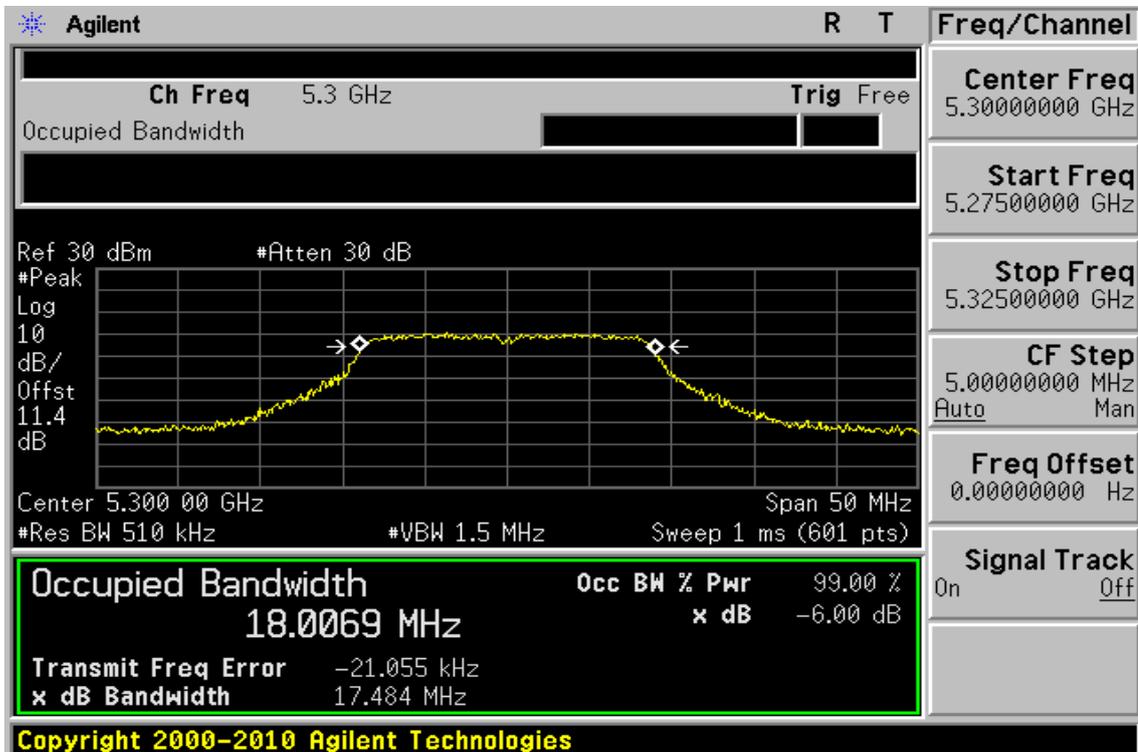
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802.11n HT20, 5250~5350 MHz

99% Band Width Test Data CH-Low (5260 MHz)



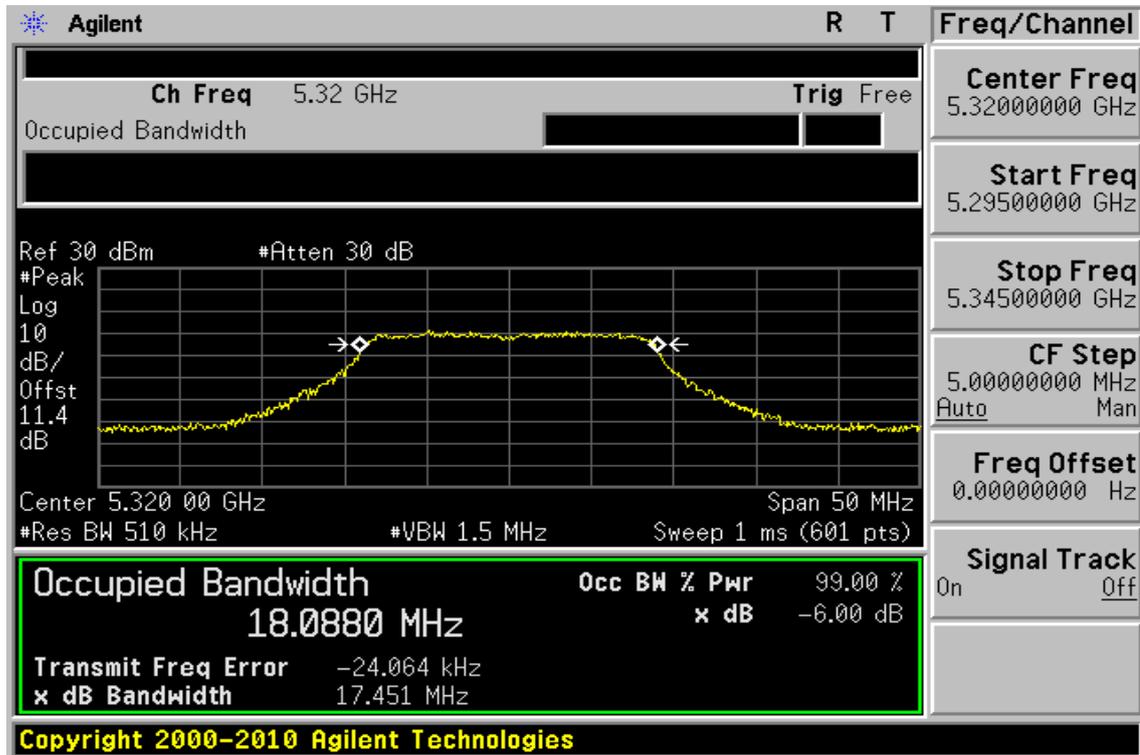
99% Band Width Test Data CH-Mid (5300 MHz)



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99% Band Width Test Data CH-High (5320 MHz)

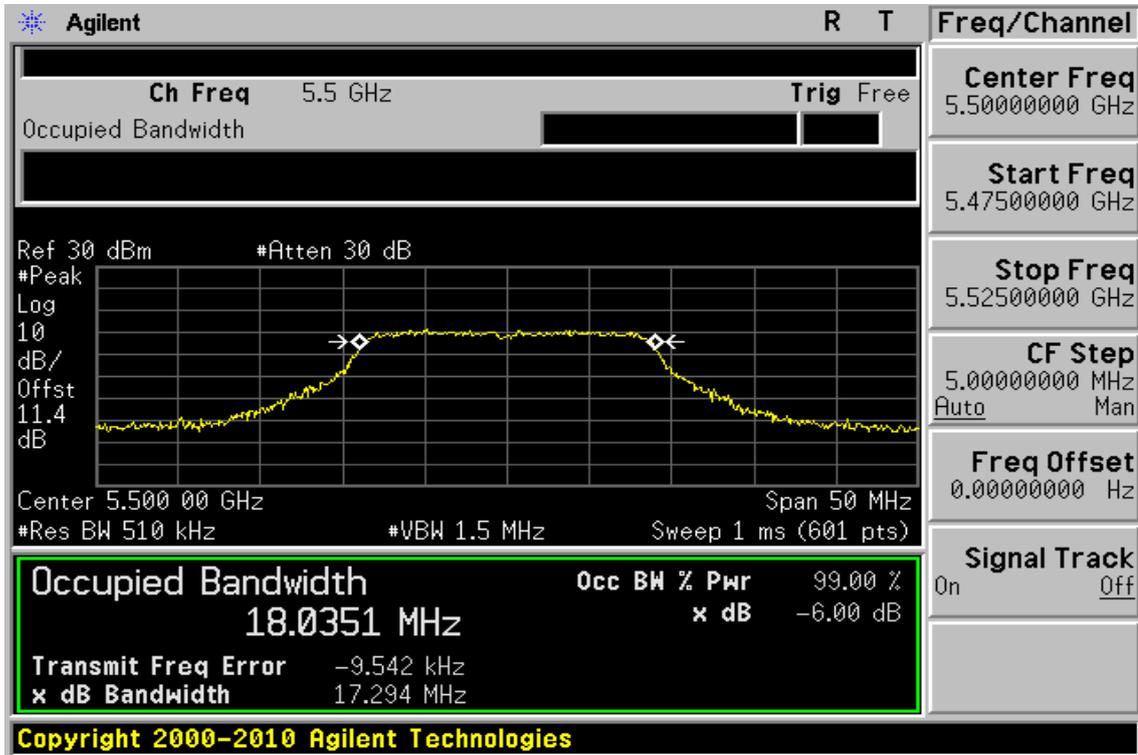


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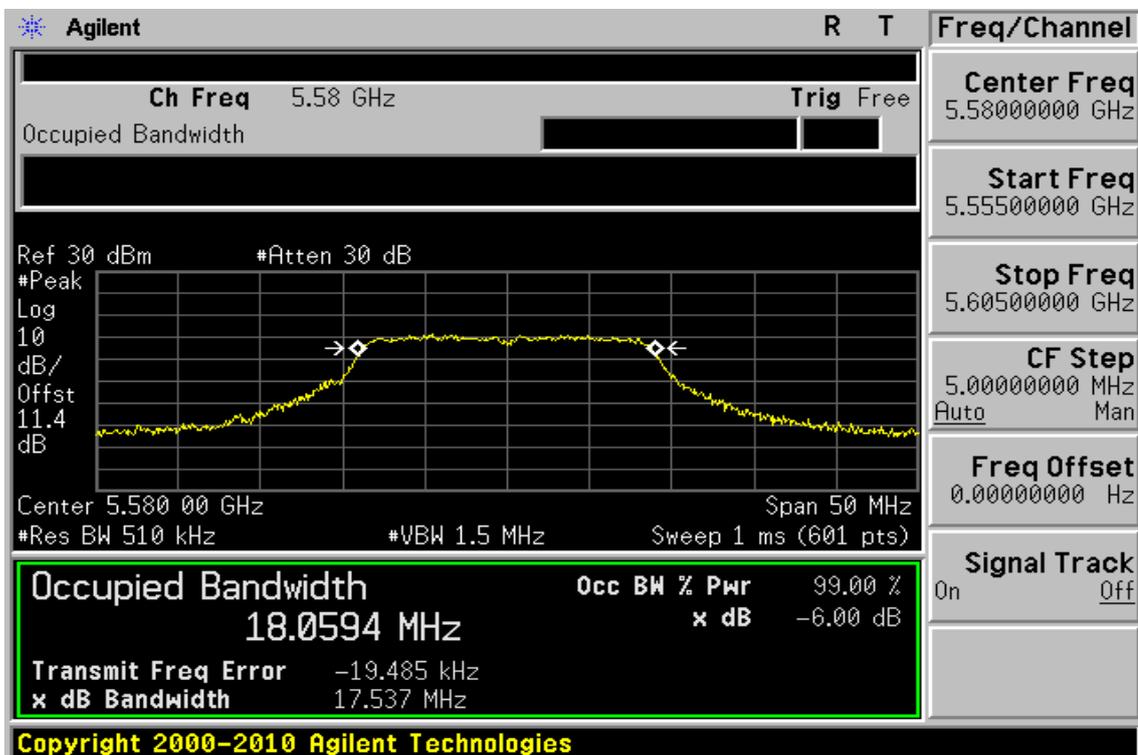
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802.11n HT20, 5470~5725 MHz

99% Band Width Test Data CH-Low (5500 MHz)



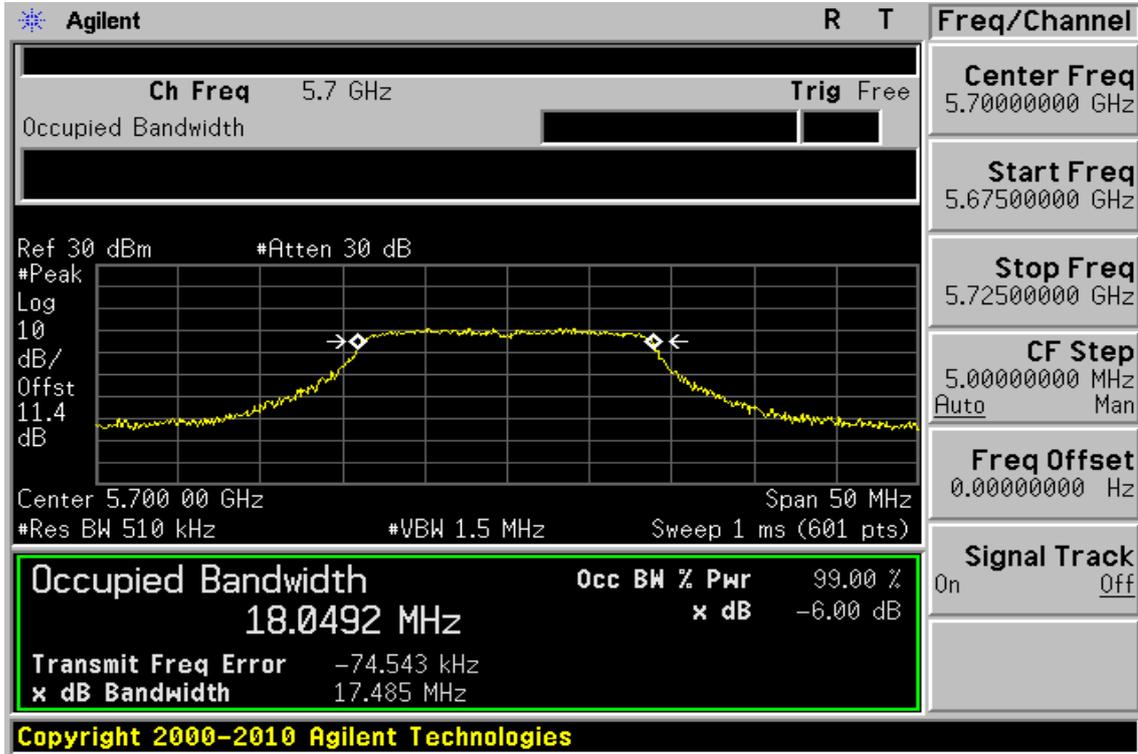
99% Band Width Test Data CH-Mid (5580 MHz)



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99% Band Width Test Data CH-High (5700 MHz)

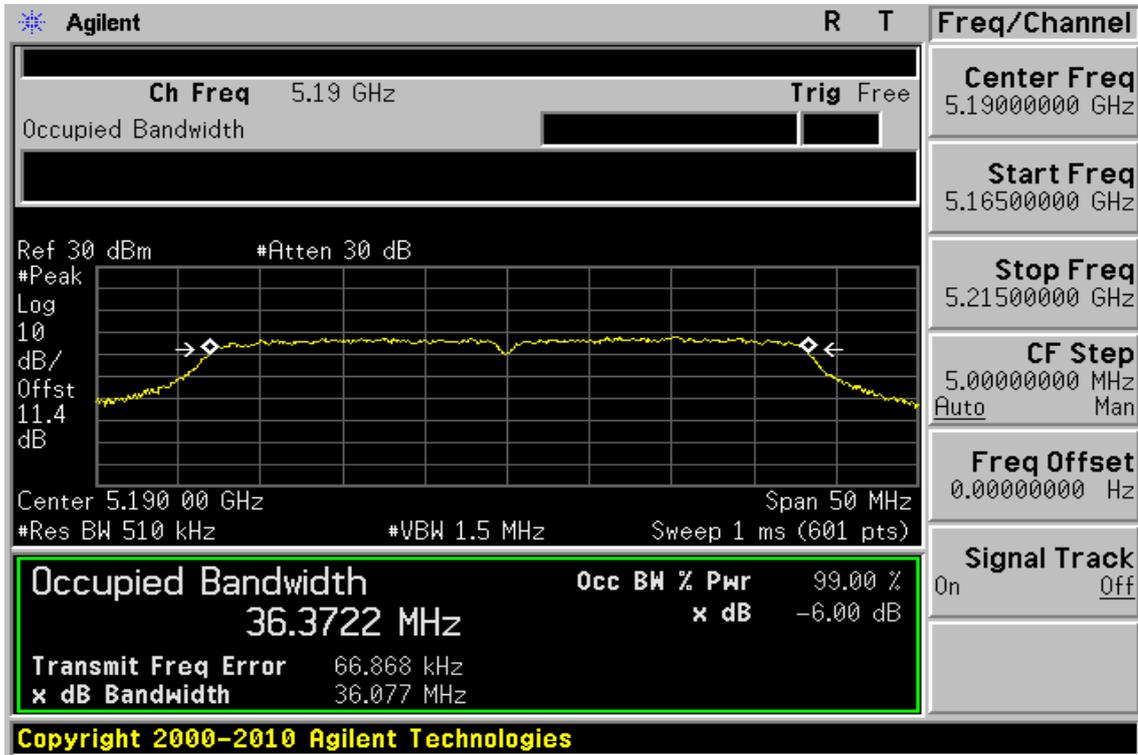


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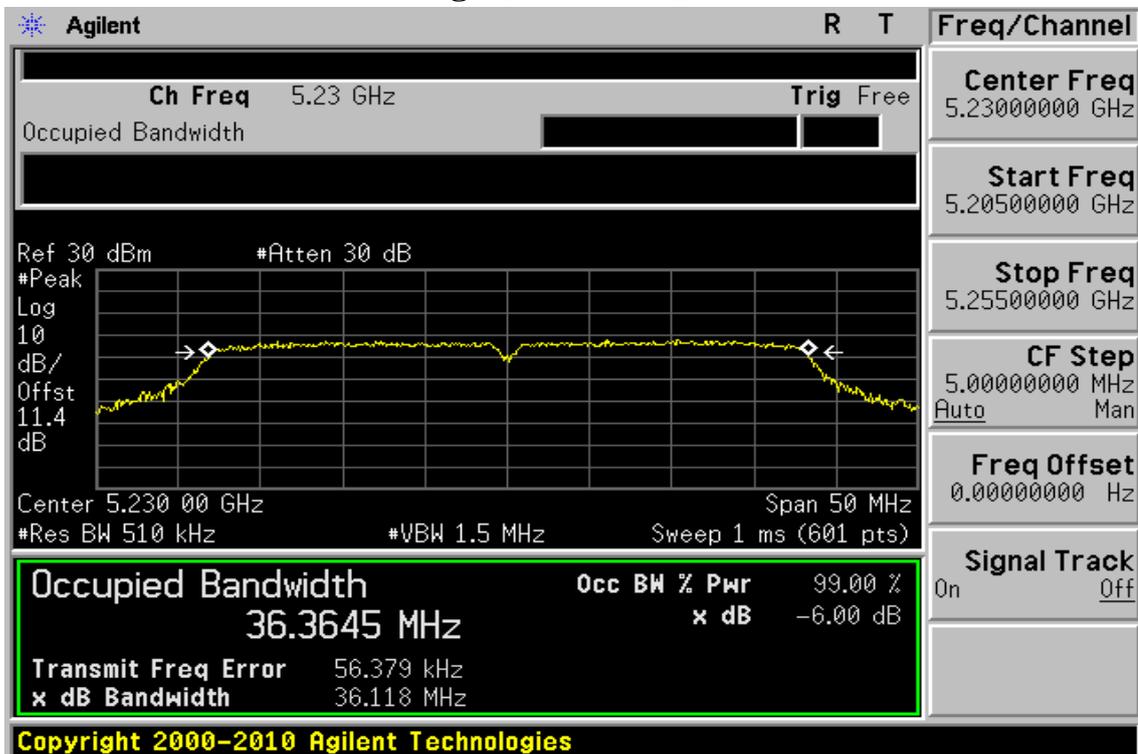
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802.11n HT40, 5150~5250 MHz

99% Band Width Test Data CH-Low (5190 MHz)



99% Band Width Test Data CH-High (5230 MHz)

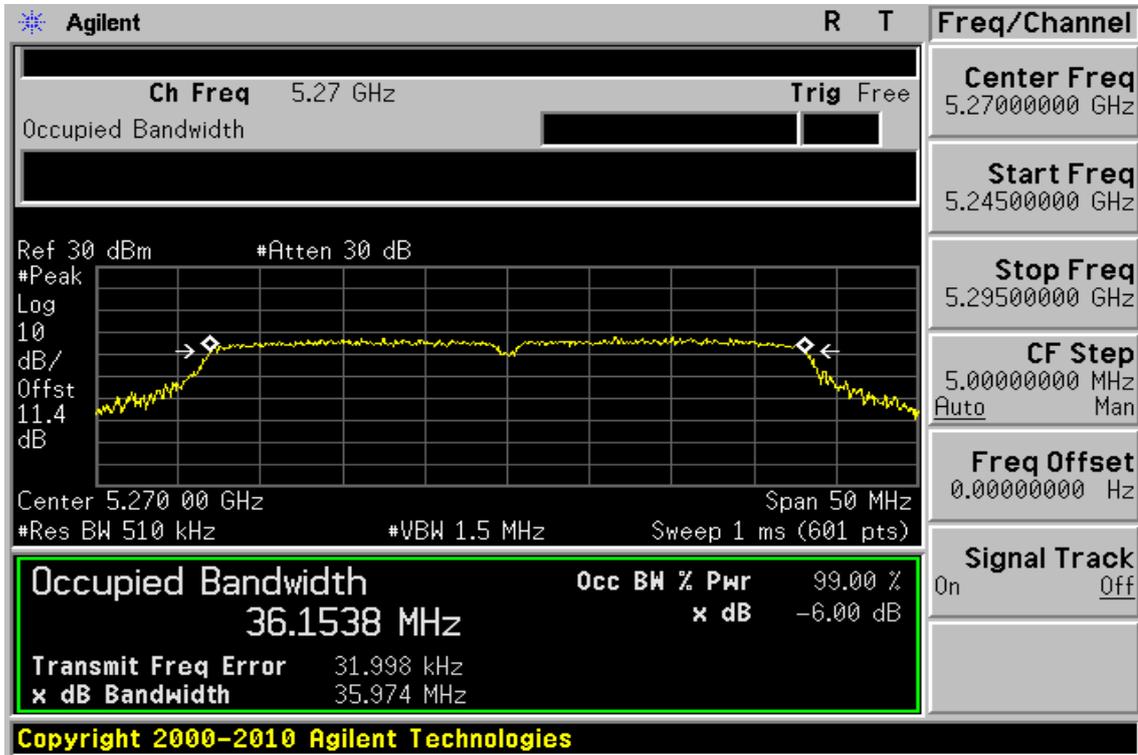


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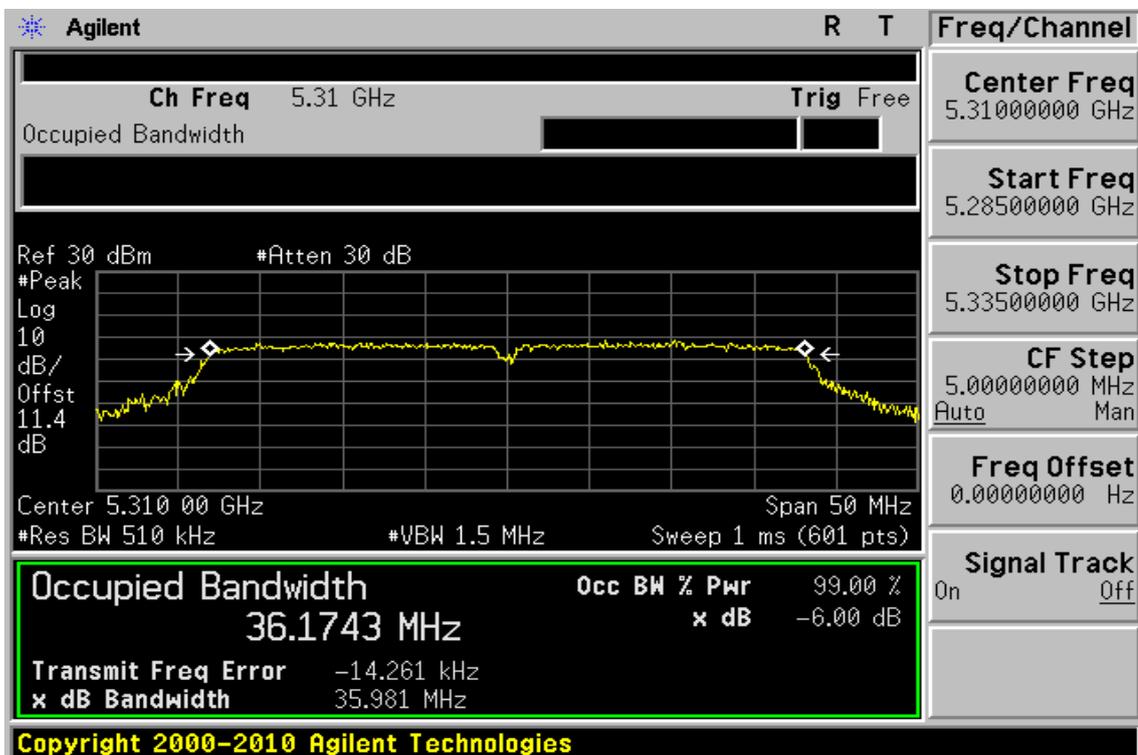
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802.11n HT40, 5250~5350 MHz

99% Band Width Test Data CH-Low (5270 MHz)



99% Band Width Test Data CH-High (5310MHz)

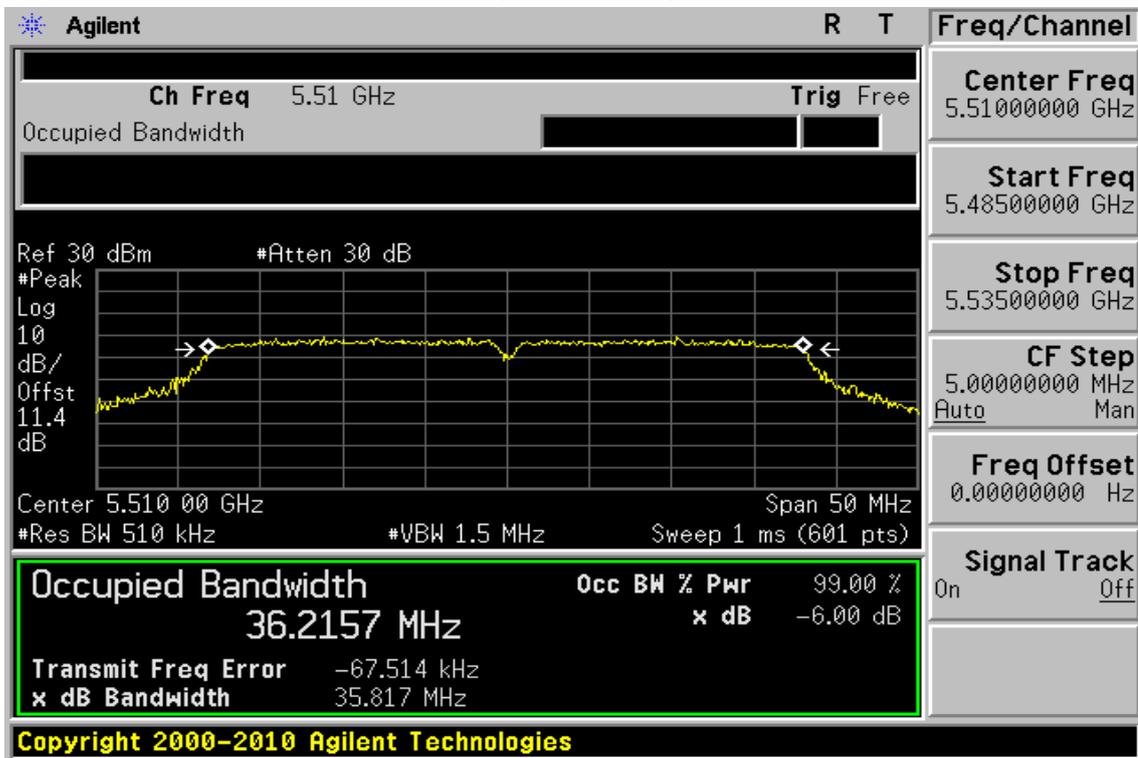


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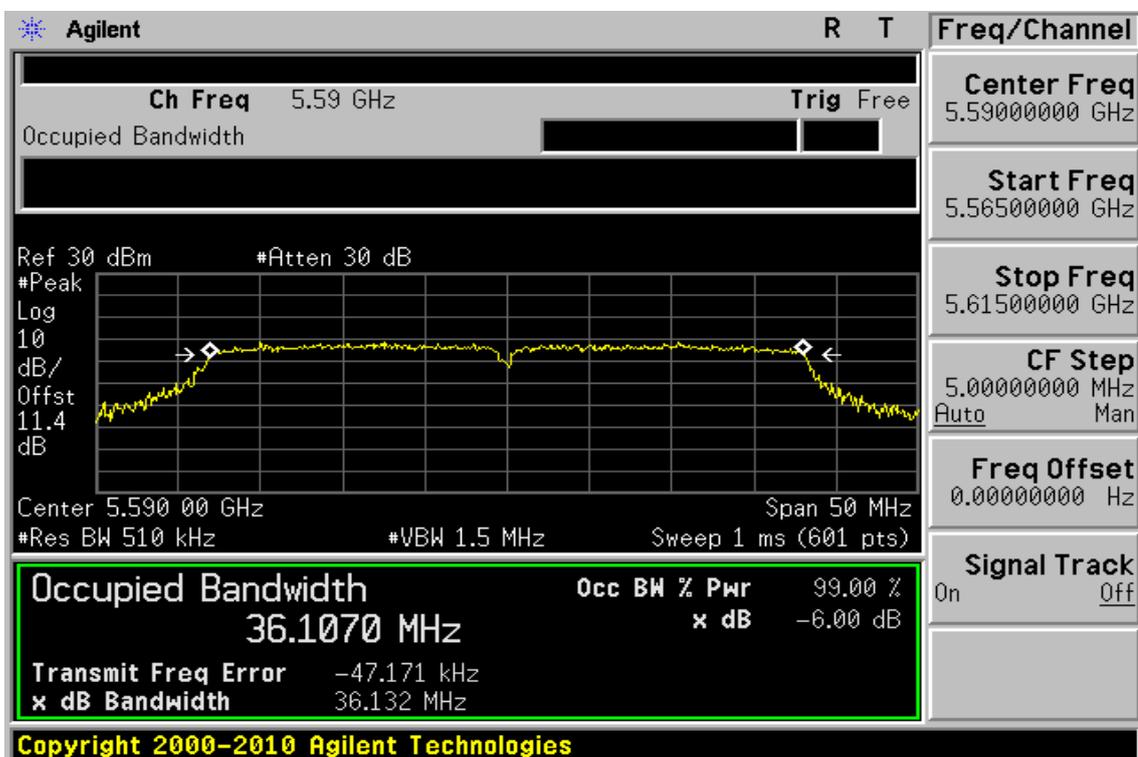
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802.11n HT40, 5470~5725 MHz

99% Band Width Test Data CH-Low (5510 MHz)



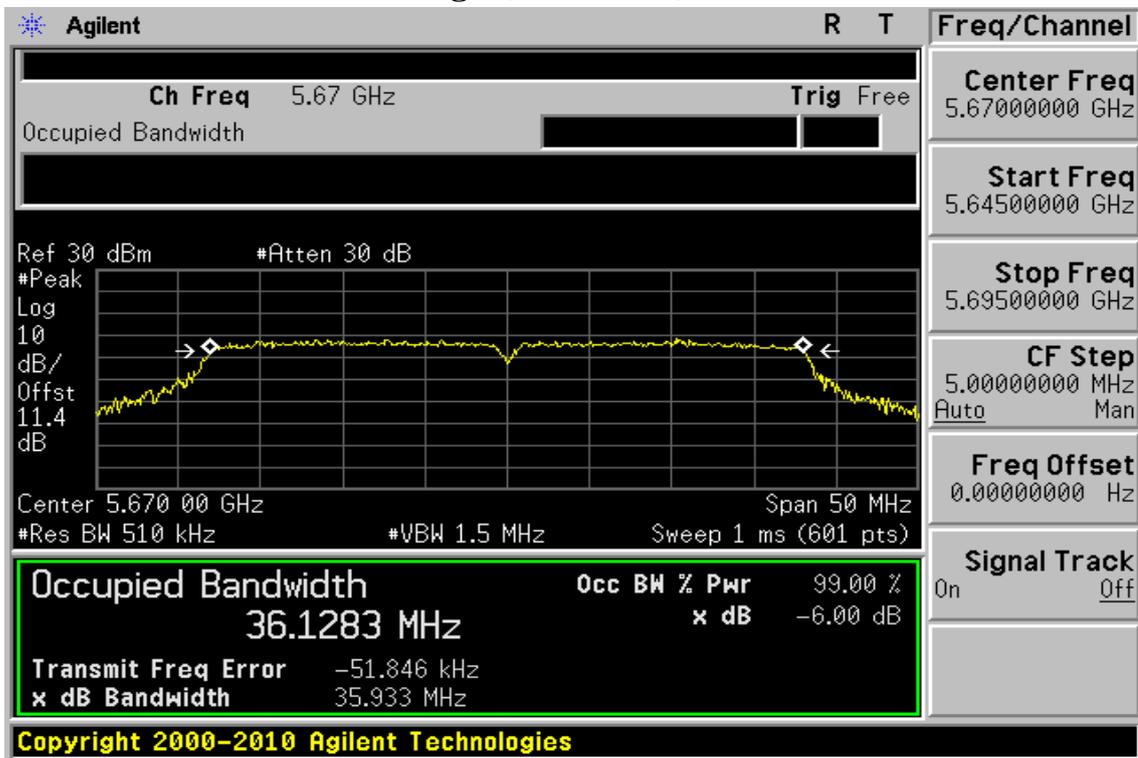
99% Band Width Test Data CH-Mid (5590 MHz)



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99% Band Width Test Data CH-High (5670 MHz)



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8. PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 50 mW (17dBm) or $4 \text{ dBm} + 10\log B$.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 250 mW (24dBm) or $11 \text{ dBm} + 10\log B$.
3. For the band 5.725-5.825 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 1W (30dBm) or $17 \text{ dBm} + 10\log B$.

According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where θ is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for $0^\circ \leq \theta < 8^\circ$
- (ii) $-13 - 0.716 (\theta - 8) \text{ dB(W/MHz)}$ for $8^\circ \leq \theta < 40^\circ$
- (iii) $-35.9 - 1.22 (\theta - 40) \text{ dB(W/MHz)}$ for $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB(W/MHz) for $\theta > 45^\circ$

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3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or $23 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p. under the same conditions as for point-to-point systems.

where B is the 26dB emission bandwidth in MHz.

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel Power Function, RBW=1MHz, VBW=3MHz, ACP Bandwidth =26dB Emission Bandwidth)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

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8.4 Measurement Result

802.11a

Cable loss = 0		Peak Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	12.53	12.51	12.47	12.45	12.40	12.36	12.33	12.30	50mWatt or 4+10log(B) = 16.91dBm
44	5220	11.26	11.23	11.19	11.15	11.11	11.07	11.05	11.01	50mWatt or 4+10log(B) = 16.91dBm
48	5240	11.92	11.90	11.86	11.84	11.81	11.77	11.76	11.73	50mWatt or 4+10log(B) = 16.92dBm
52	5260	12.42	12.40	12.38	12.37	12.34	12.30	12.26	12.24	250mWatt or 11+log(B) = 23.90dBm
60	5300	12.07	12.05	12.01	11.97	11.95	11.91	11.89	11.86	250mWatt or 11+log(B) = 23.88dBm
64	5320	12.25	12.23	12.21	12.18	12.15	12.13	12.09	12.05	250mWatt or 11+log(B) = 23.89dBm
100	5500	12.62	12.57	12.55	12.52	12.49	12.45	12.44	12.41	250mWatt or 11+log(B) = 23.87dBm
116	5580	13.26	13.24	13.19	13.17	13.13	13.11	13.07	13.05	250mWatt or 11+log(B) = 23.86dBm
140	5700	12.97	12.95	12.91	12.86	12.83	12.80	12.78	12.72	250mWatt or 11+log(B) = 23.84dBm

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802.11n HT20

Cable loss = 0		Peak Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
36	5180	12.52	12.50	12.49	12.46	12.42	12.37	12.34	12.31	50mWatt or $4+10\log(B) = 17.01\text{dBm}$
44	5220	11.80	11.77	11.74	11.71	11.70	11.68	11.65	11.62	50mWatt or $4+10\log(B) = 17.03\text{dBm}$
48	5240	11.99	11.97	11.94	11.93	11.88	11.84	11.81	11.76	50mWatt or $4+10\log(B) = 17.04\text{dBm}$
52	5260	12.38	12.37	12.34	12.33	12.31	12.28	12.26	12.23	250mWatt or $11+\log(B) = 24.11\text{dBm}$
60	5300	12.62	12.61	12.59	12.55	12.52	12.47	12.44	12.43	250mWatt or $11+\log(B) = 24.09\text{dBm}$
64	5320	12.85	12.82	12.76	12.71	12.67	12.64	12.63	12.58	250mWatt or $11+\log(B) = 24.15\text{dBm}$
100	5500	13.90	13.88	13.84	13.83	12.79	12.76	12.71	12.67	250mWatt or $11+\log(B) = 29.14\text{dBm}$
116	5580	13.64	13.63	13.60	12.58	12.54	12.52	12.49	12.43	250mWatt or $11+\log(B) = 24.07\text{dBm}$
140	5700	13.40	13.37	13.36	13.31	13.28	13.24	13.20	13.17	250mWatt or $11+\log(B) = 24.12\text{dBm}$

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802.11n HT40

Cable loss = 0		Peak Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	12.90	12.84	12.82	12.76	12.72	12.70	12.65	12.61	50mWatt or 4+10log(B) = 19.98dBm
46	5230	12.68	12.64	12.62	12.58	12.53	12.50	12.49	12.43	50mWatt or 4+10log(B) = 19.93dBm
54	5270	12.81	12.74	12.71	12.68	12.64	12.63	12.59	12.54	250mWatt or 11+log(B) = 26.94dBm
62	5310	13.35	13.32	13.30	13.29	13.24	13.22	13.17	13.13	250mWatt or 11+log(B) = 26.92dBm
102	5510	13.87	13.84	13.83	13.77	13.75	13.71	13.69	13.64	250mWatt or 11+log(B) = 26.97dBm
118	5590	13.92	13.88	13.83	13.78	13.71	13.69	13.65	13.60	250mWatt or 11+log(B) = 26.92dBm
134	5670	13.54	13.50	13.47	13.43	13.40	13.32	13.31	13.27	250mWatt or 11+log(B) = 26.94dBm

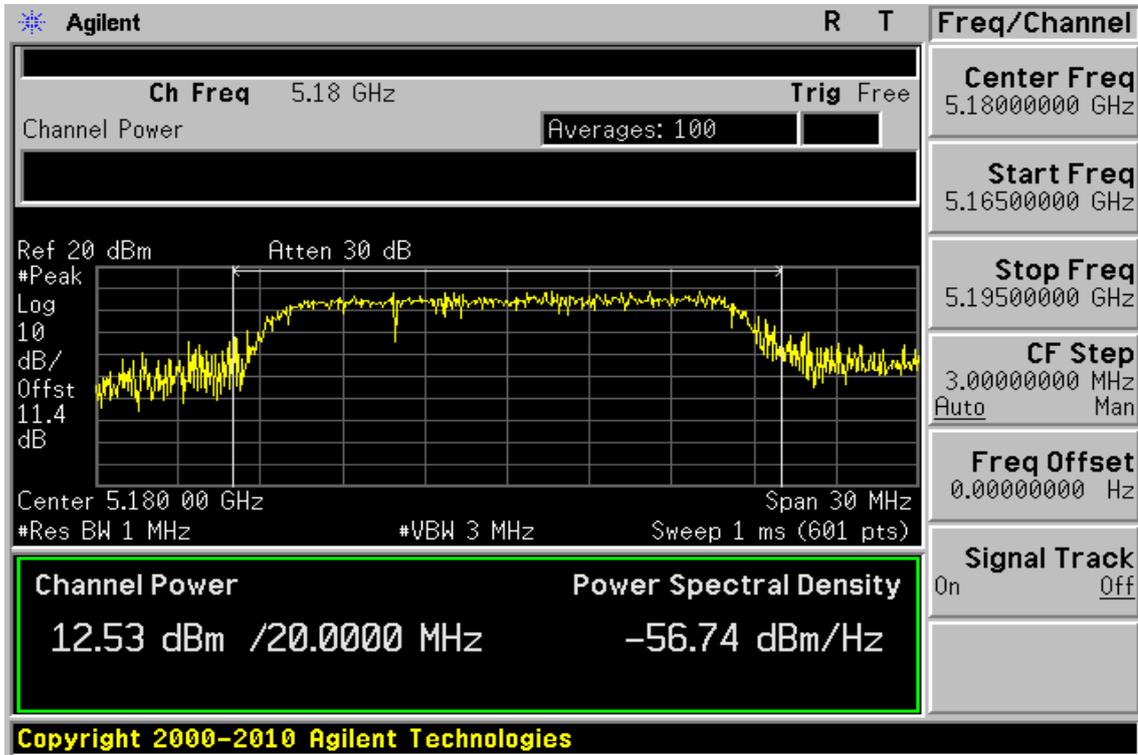
Note: Offset 11.1dB for 2.4GHz
Offset 11.4dB for 5GHz

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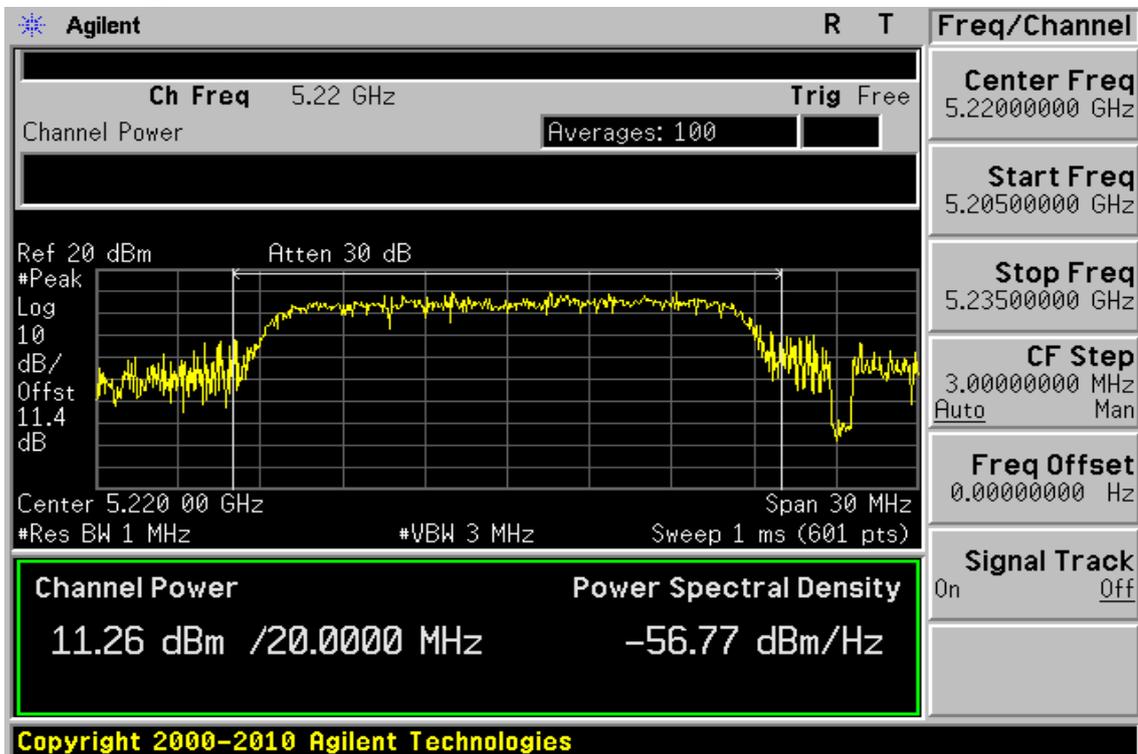
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802.11a, 5150~5250 MHz

Peak Power Output Data Plot (CH Low 5180 MHz)



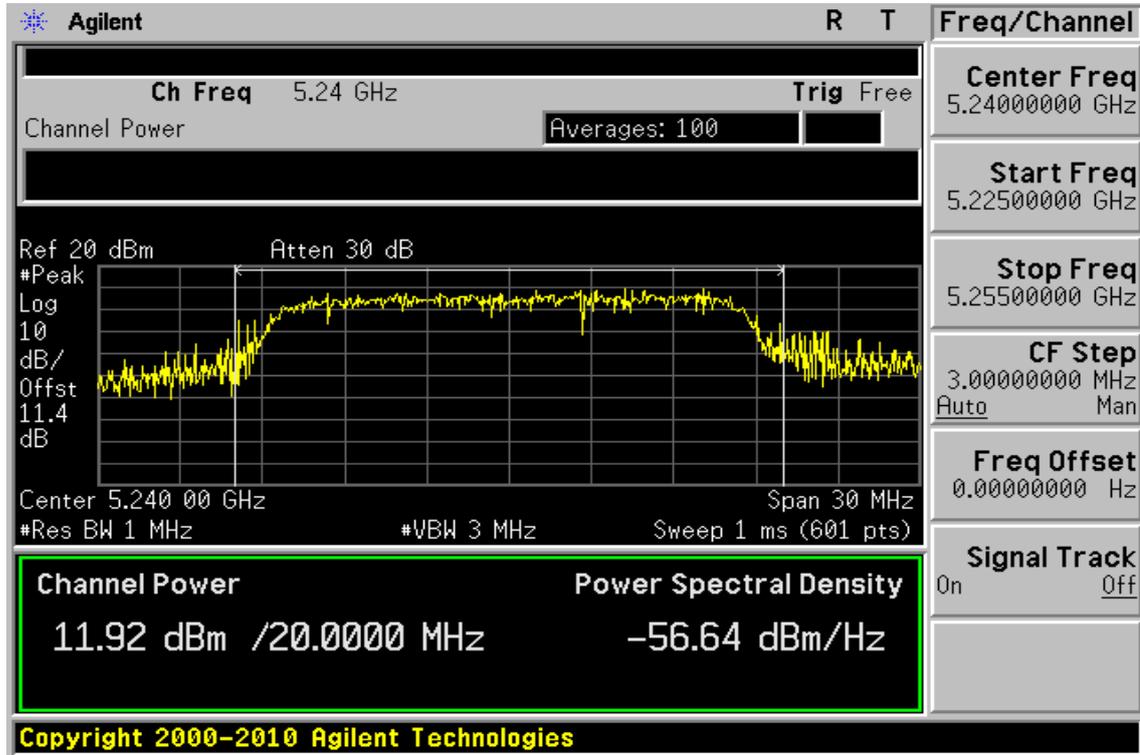
Peak Power Output Data Plot (CH Mid 5220 MHz)



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Peak Power Output Data Plot (CH High 5240 MHz)

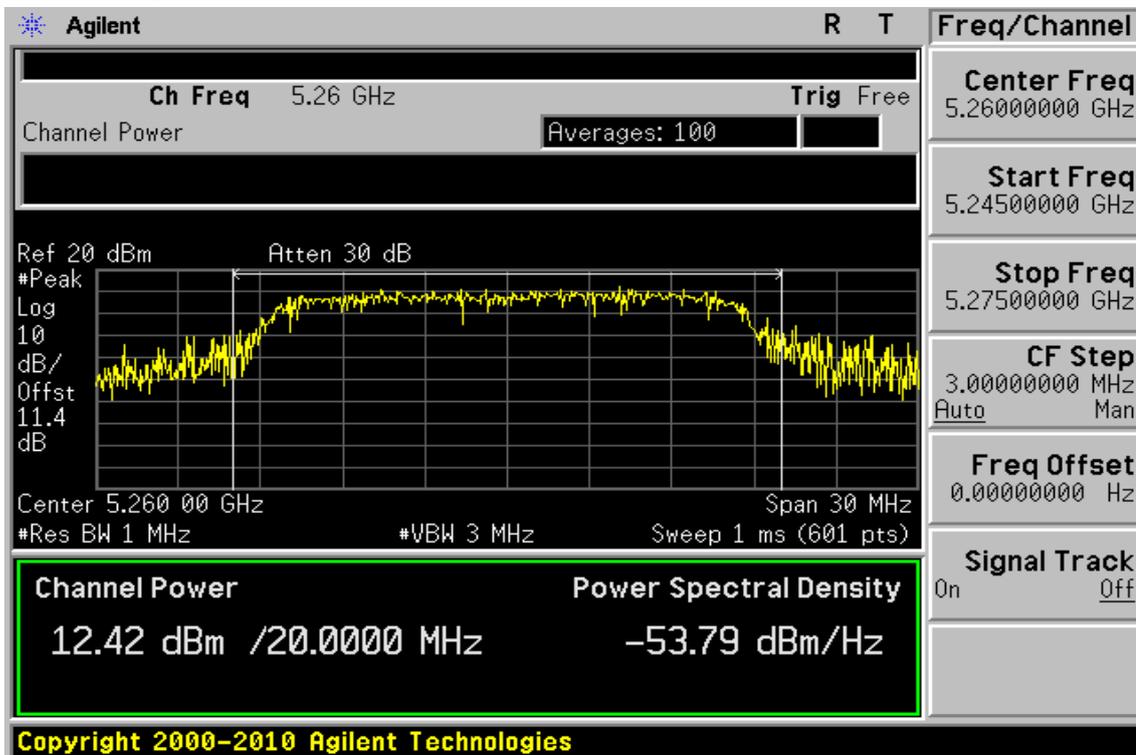


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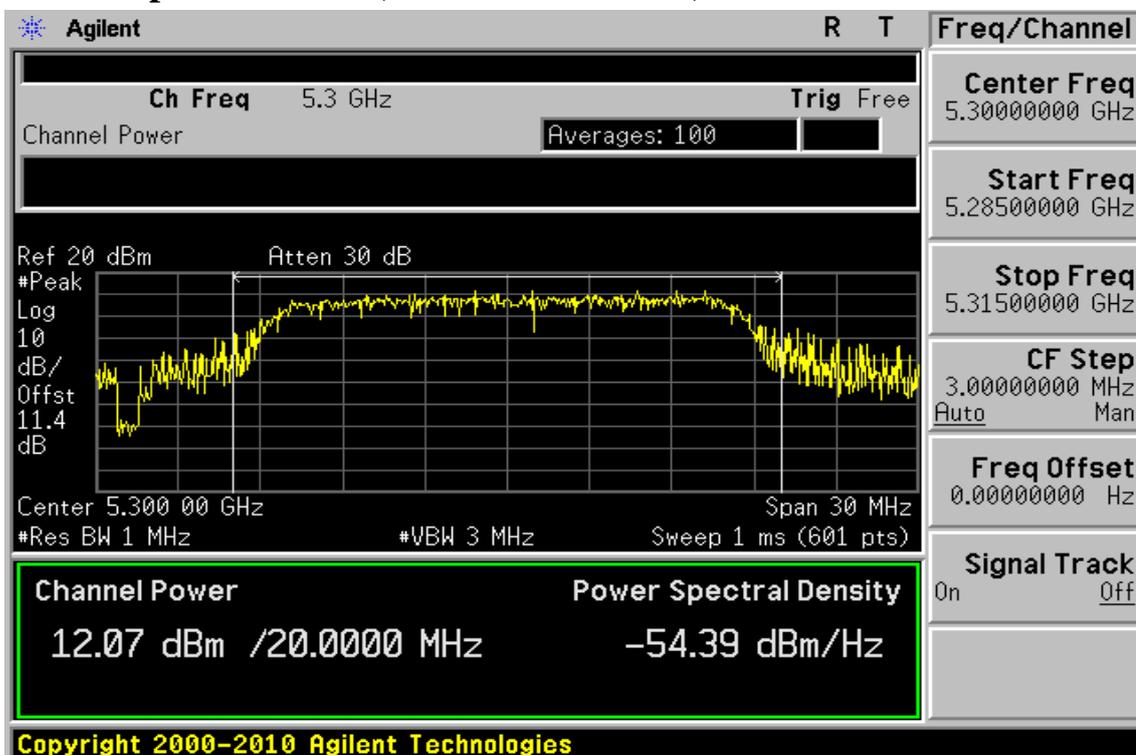
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802.11a, 5250~5350 MHz

Peak Power Output Data Plot (CH Low 5260 MHz)



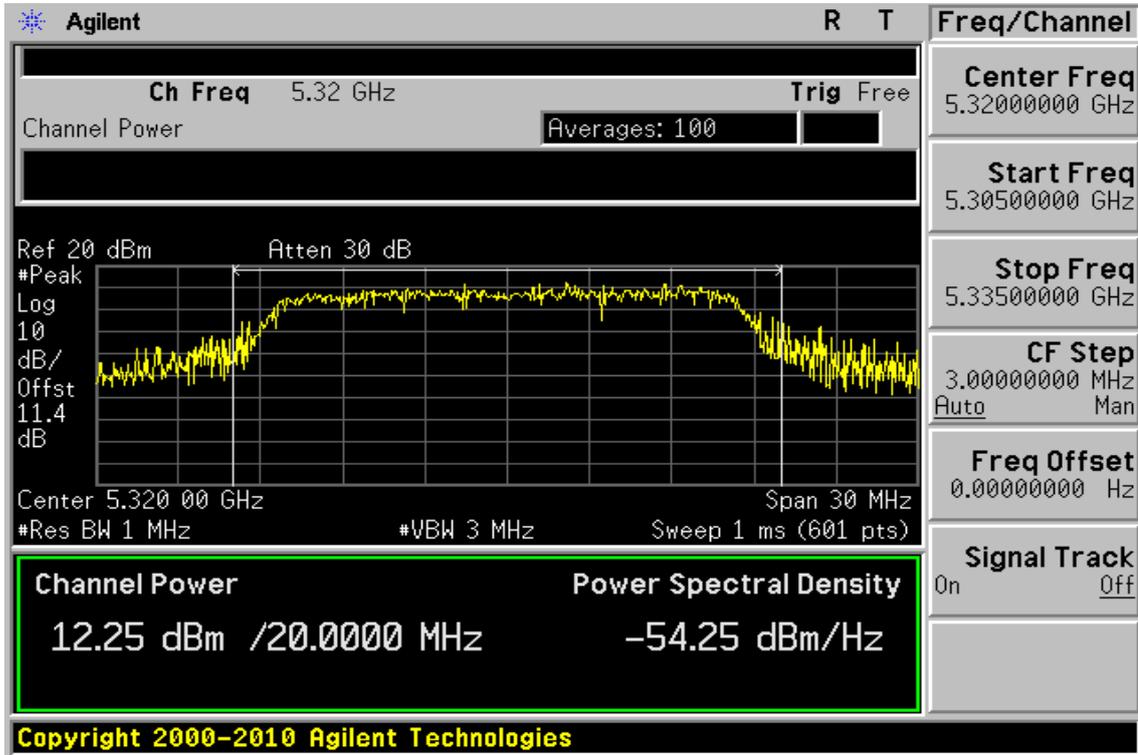
Peak Power Output Data Plot (CH Mid 5300 MHz)



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Peak Power Output Data Plot (CH High 5320 MHz)

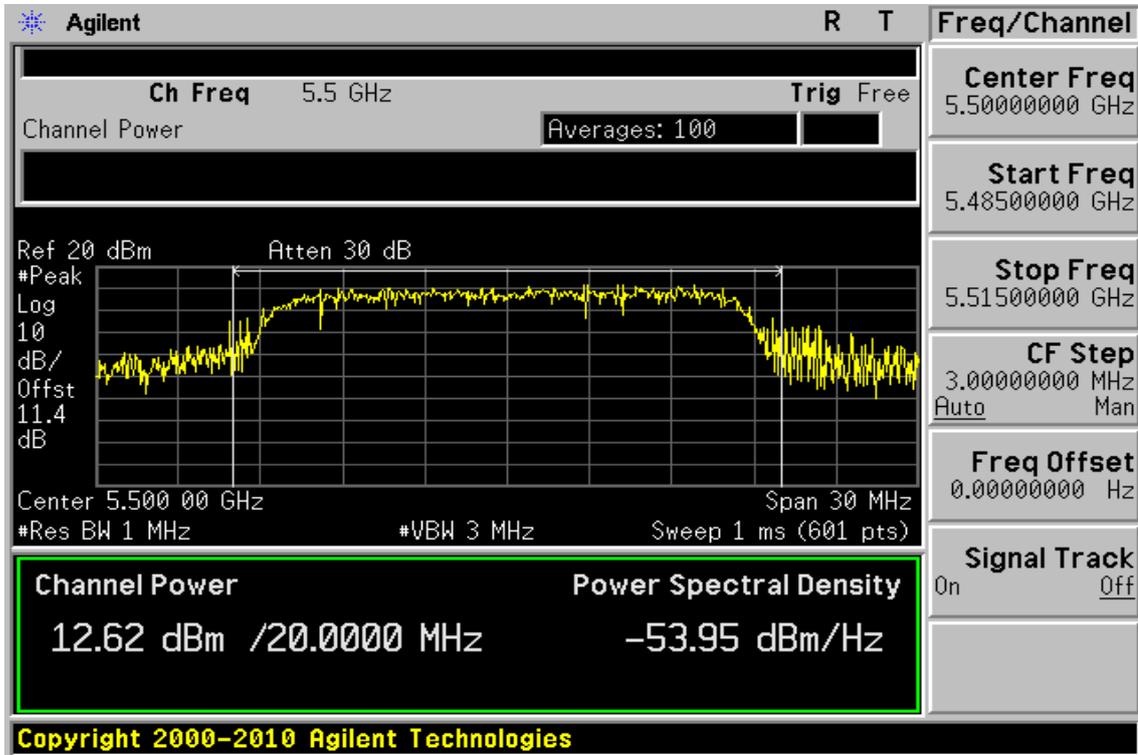


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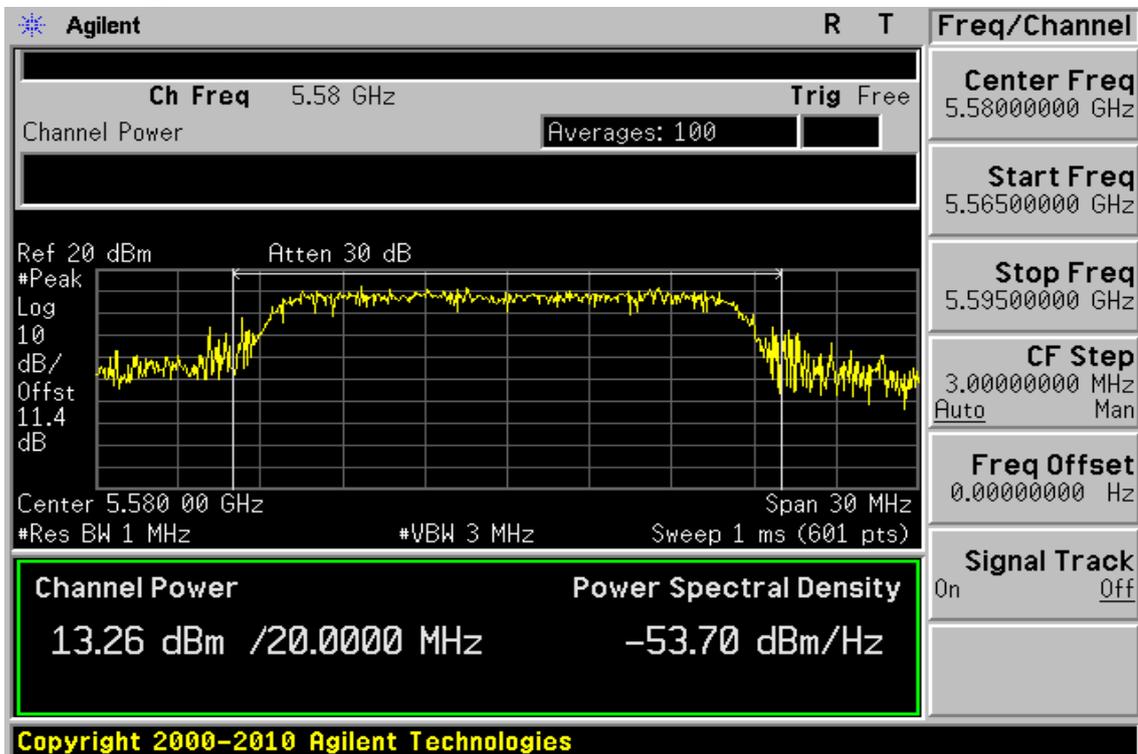
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802.11a, 5470~5725 MHz

Peak Power Output Data Plot (CH Low 5500 MHz)



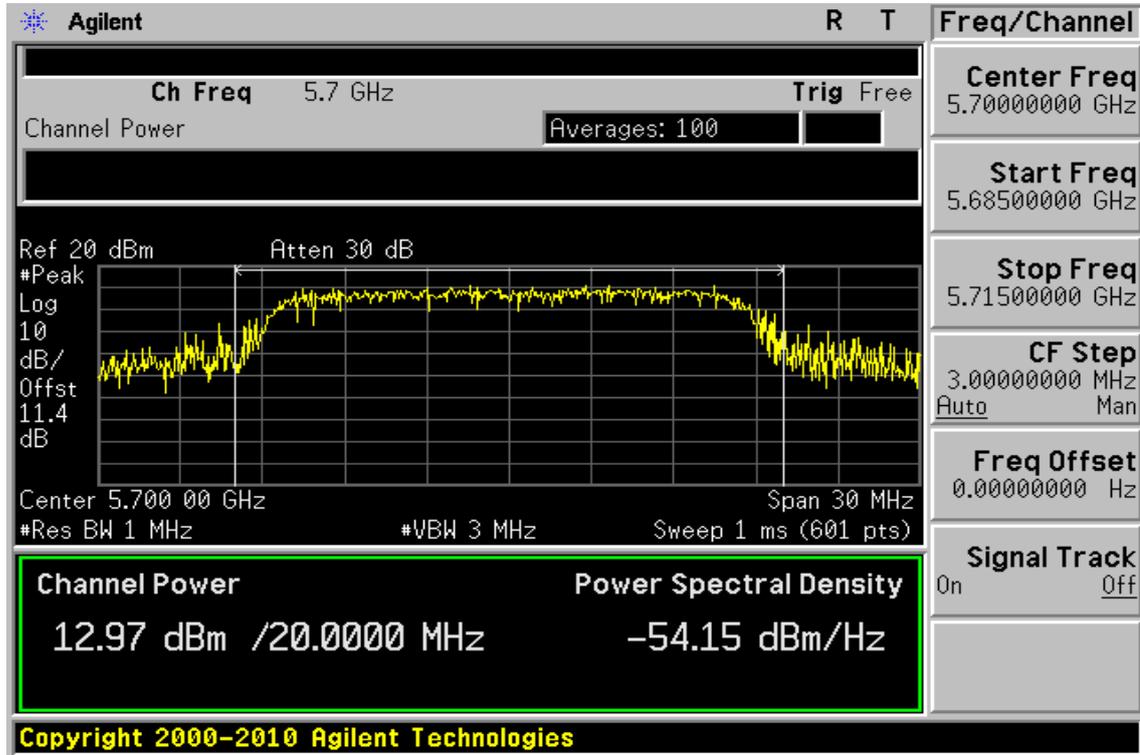
Peak Power Output Data Plot (CH Mid 5580 MHz)



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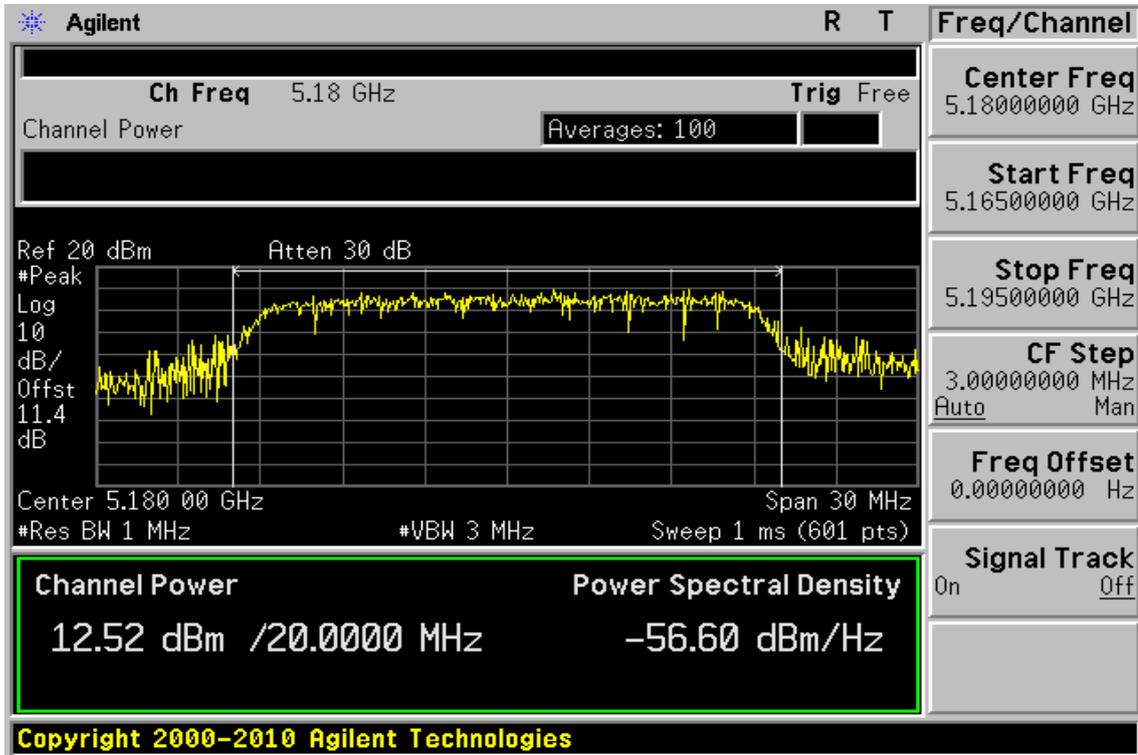
Peak Power Output Data Plot (CH High 5700 MHz)



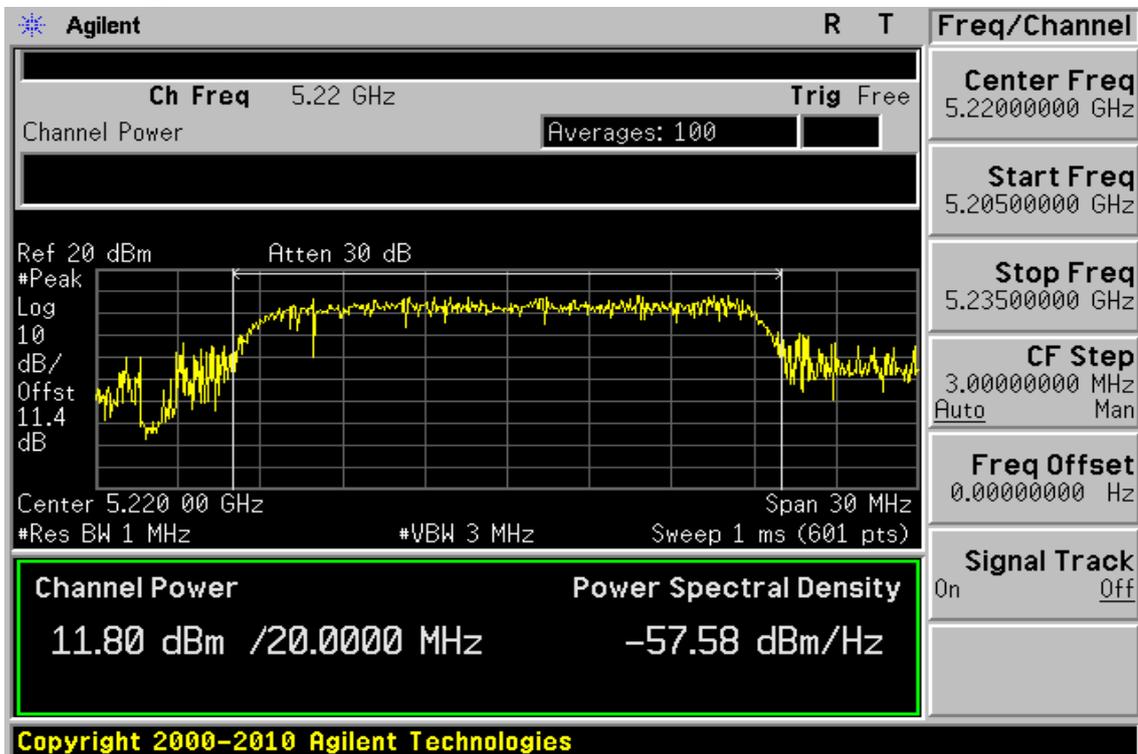
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802.11n HT20, 5150~5250 MHz
Peak Power Output Data Plot (CH Low 5180 MHz)



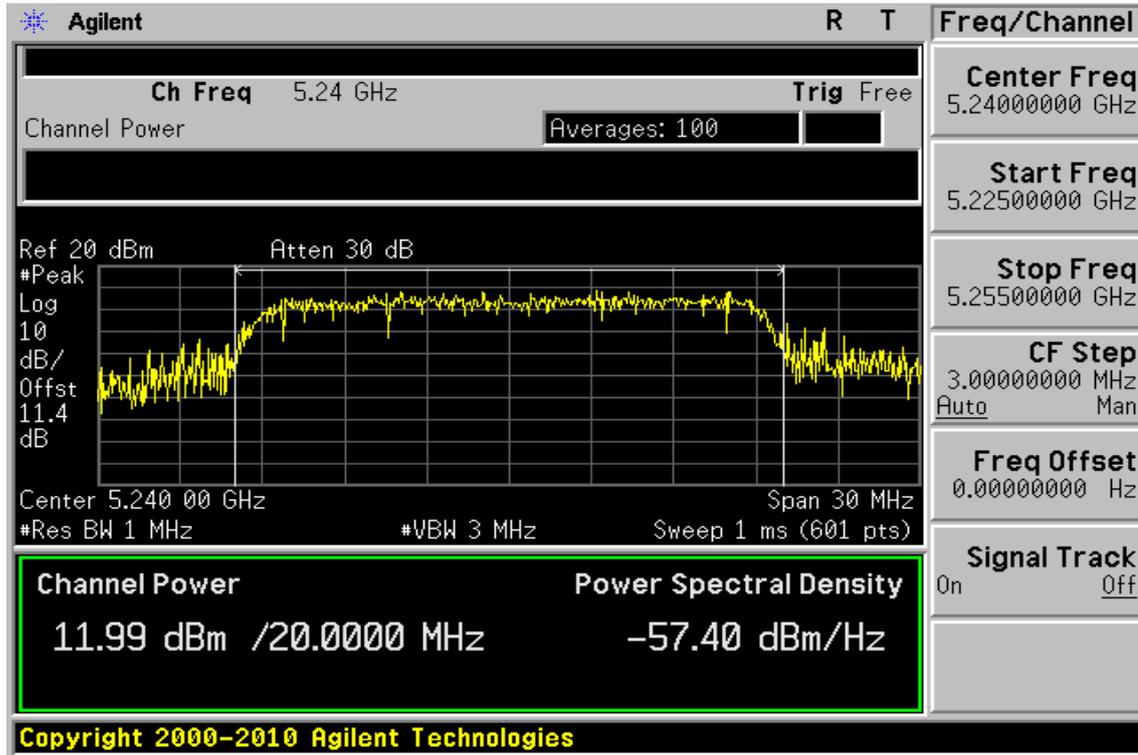
Peak Power Output Data Plot (CH Mid 5220 MHz)



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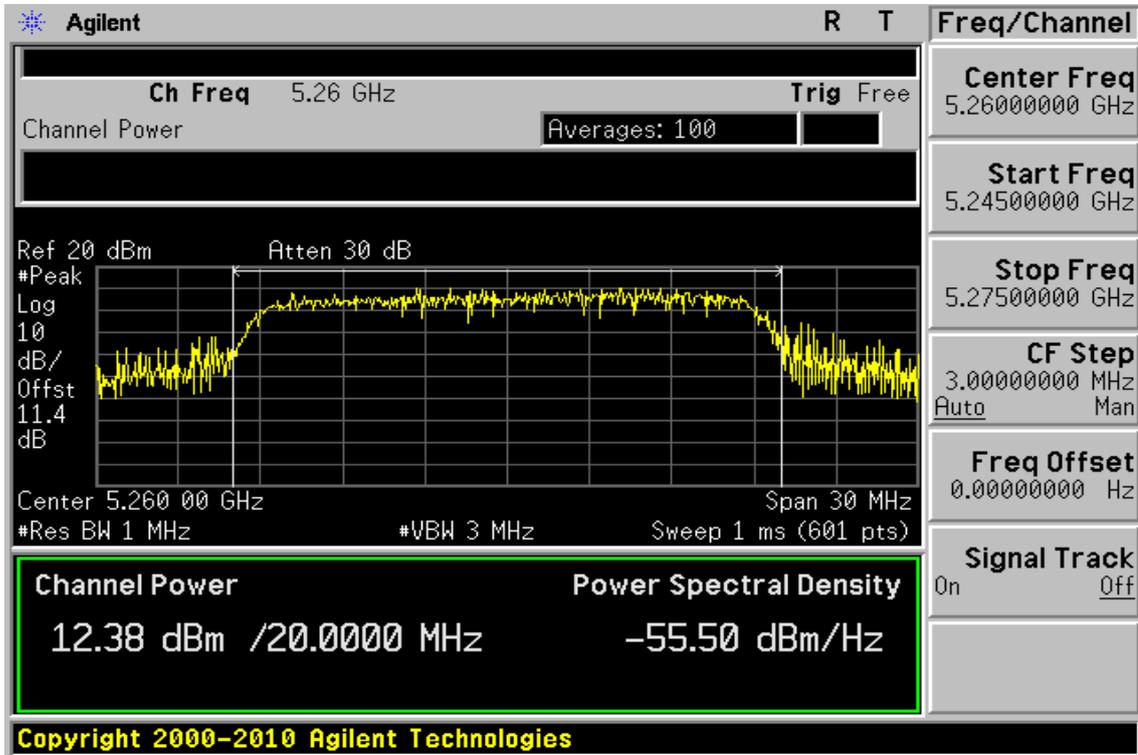
Peak Power Output Data Plot (CH High 5240 MHz)



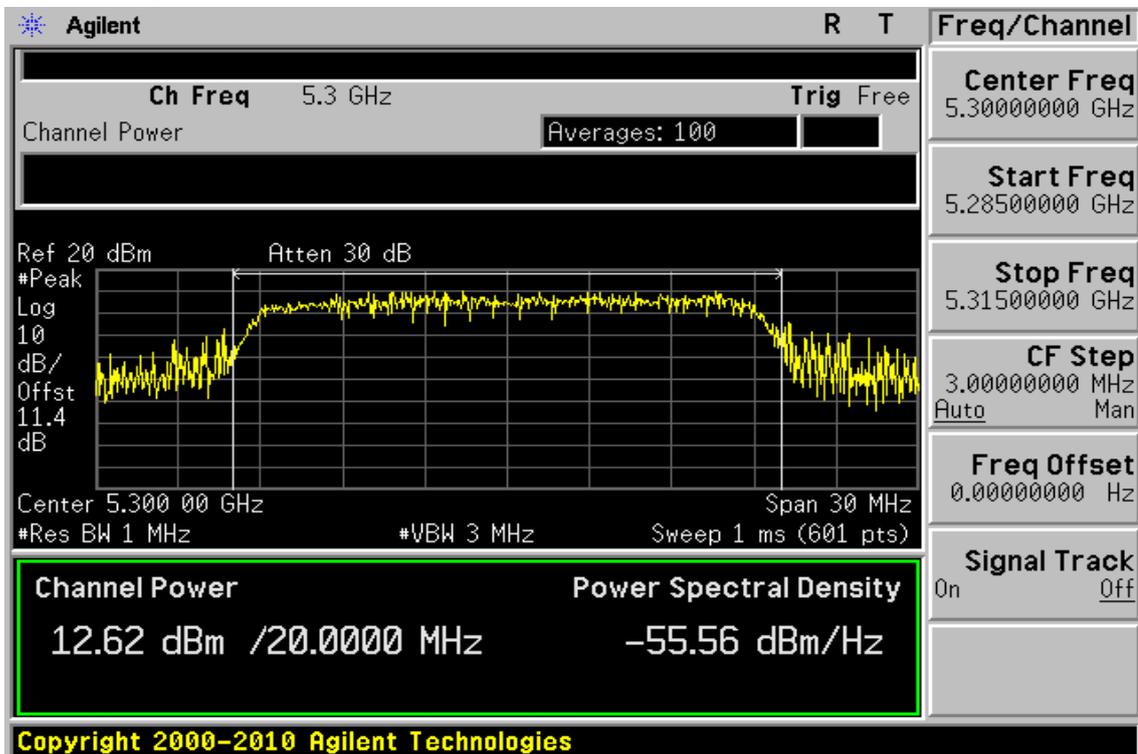
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802.11n HT20, 5250~5350 MHz
Peak Power Output Data Plot (CH Low 5260 MHz)



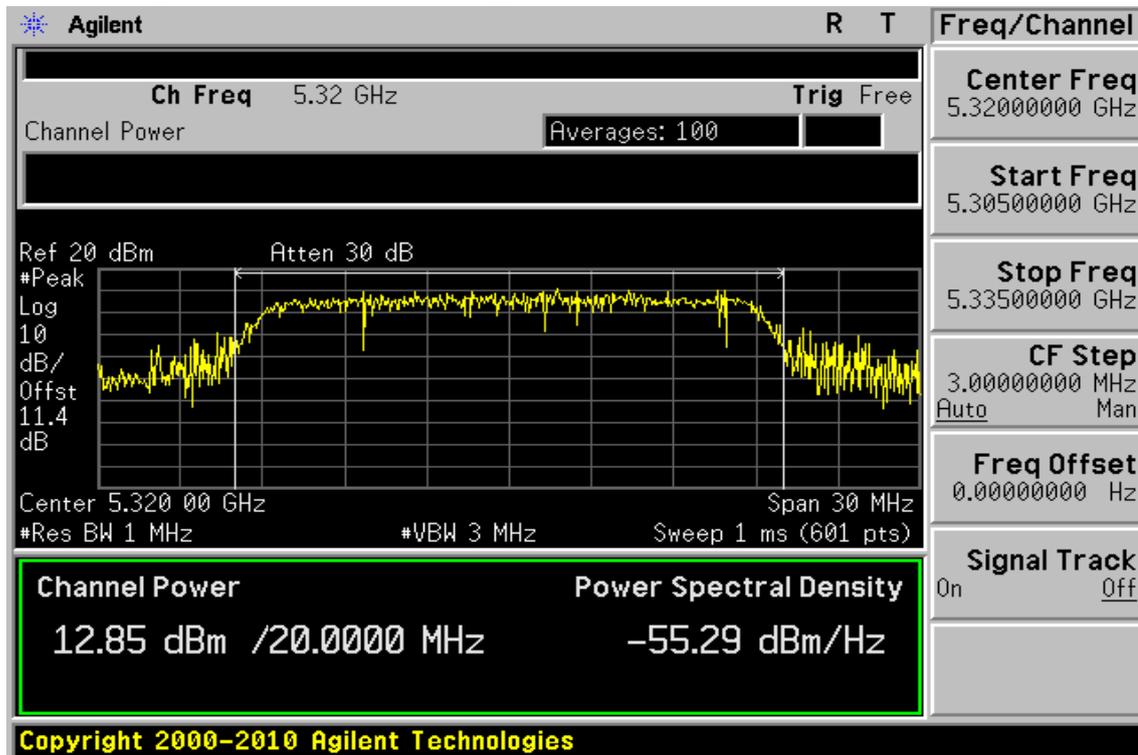
Peak Power Output Data Plot (CH Mid 5300 MHz)



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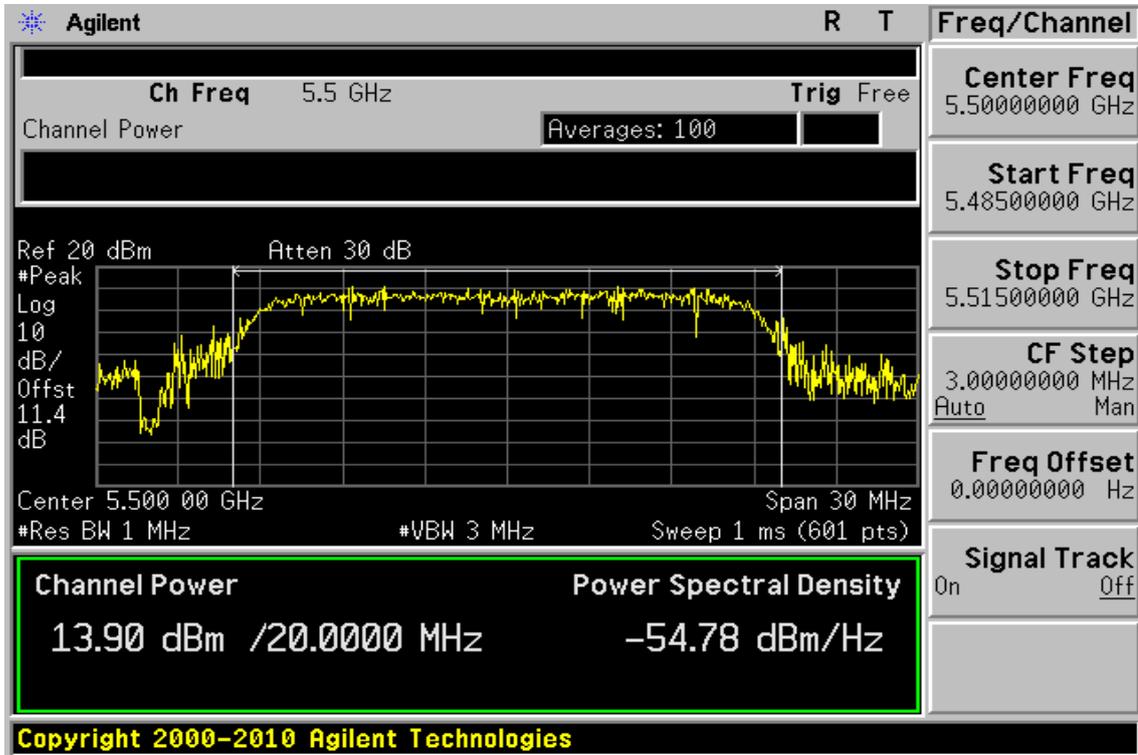
Peak Power Output Data Plot (CH High 5320 MHz)



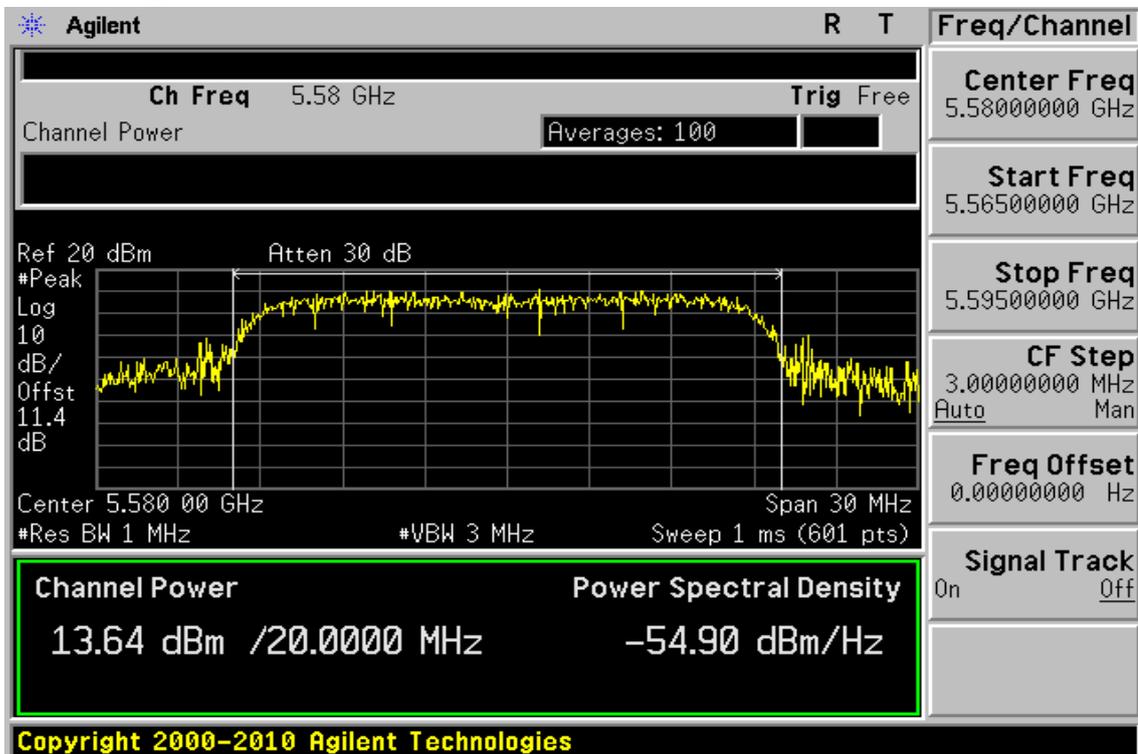
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802.11n HT20, 5470~5725 MHz
Peak Power Output Data Plot (CH Low 5500 MHz)



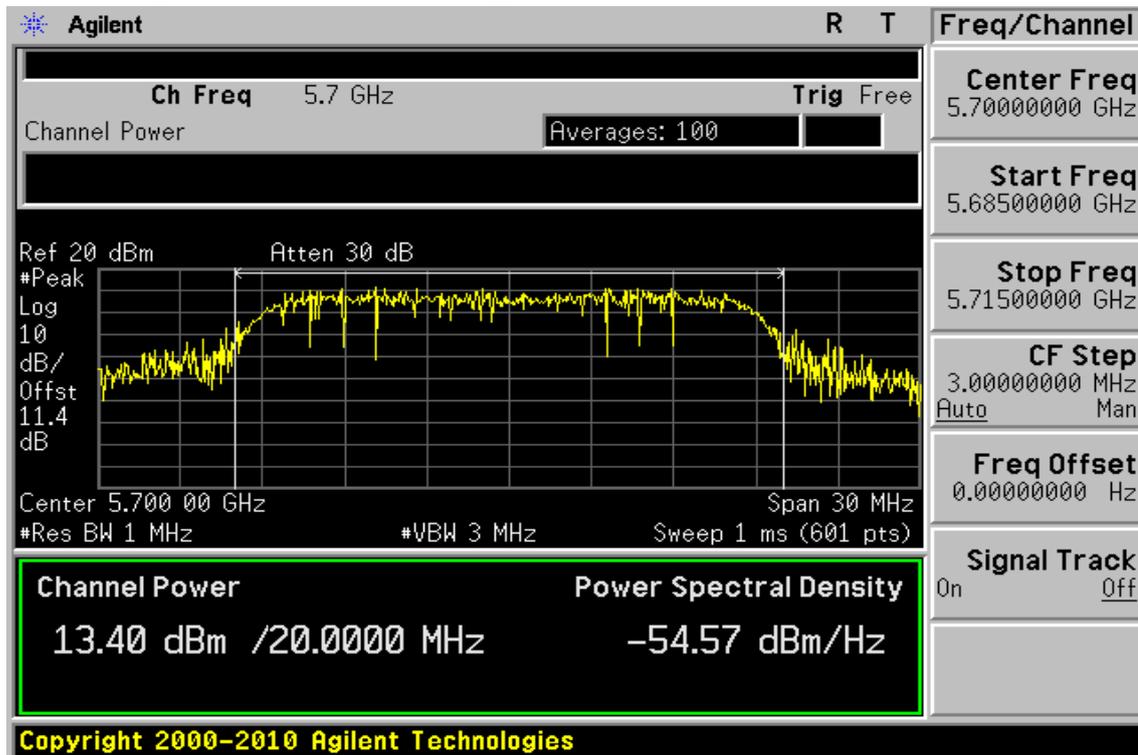
Peak Power Output Data Plot (CH Mid 5580 MHz)



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Peak Power Output Data Plot (CH High 5700 MHz)

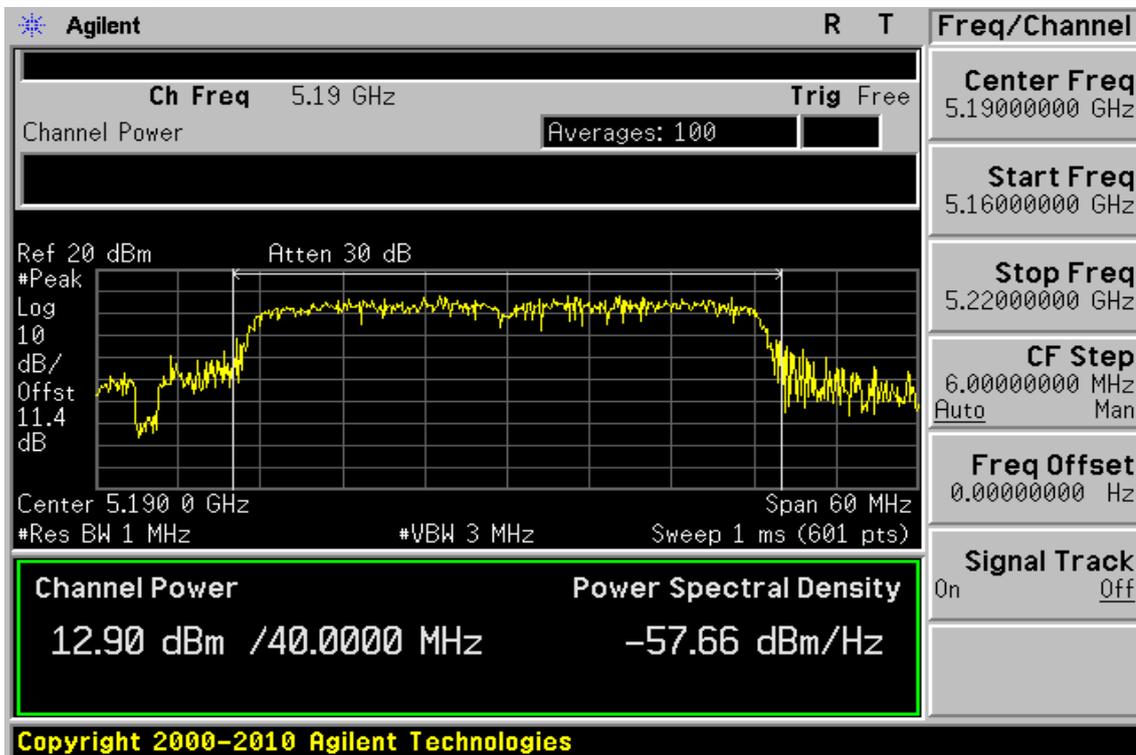


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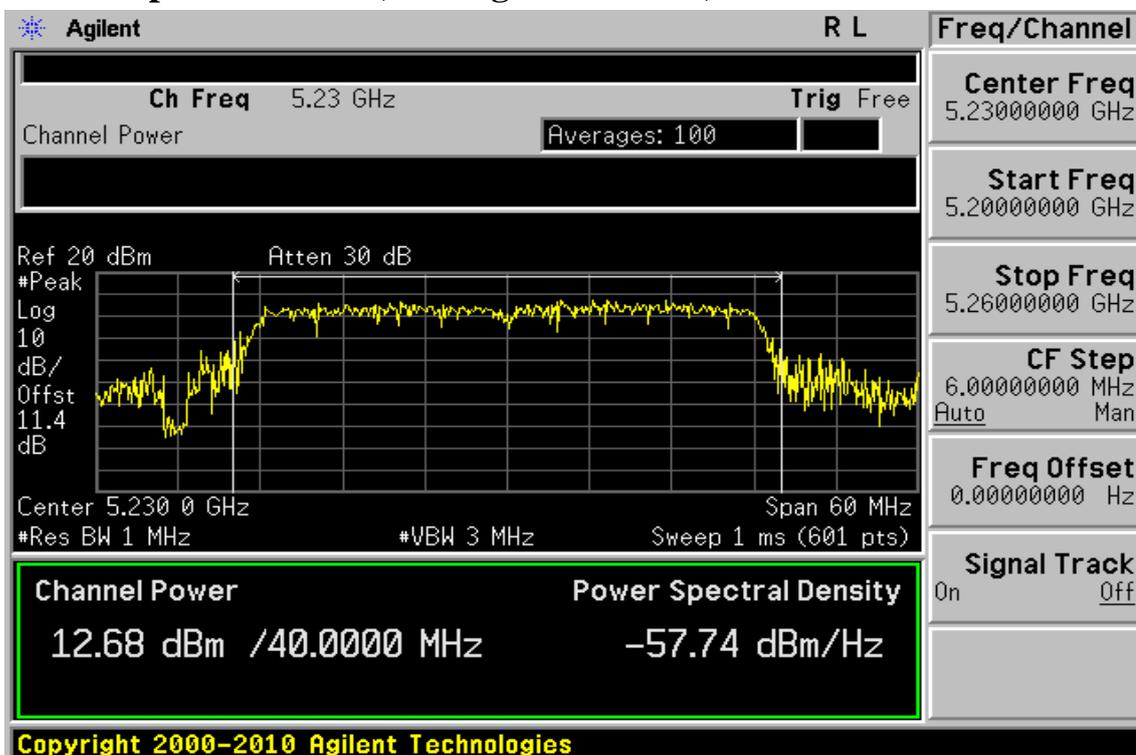
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802.11n HT40, 5150~5250 MHz

Peak Power Output Data Plot (CH Low 5190 MHz)



Peak Power Output Data Plot (CH High 5230 MHz)

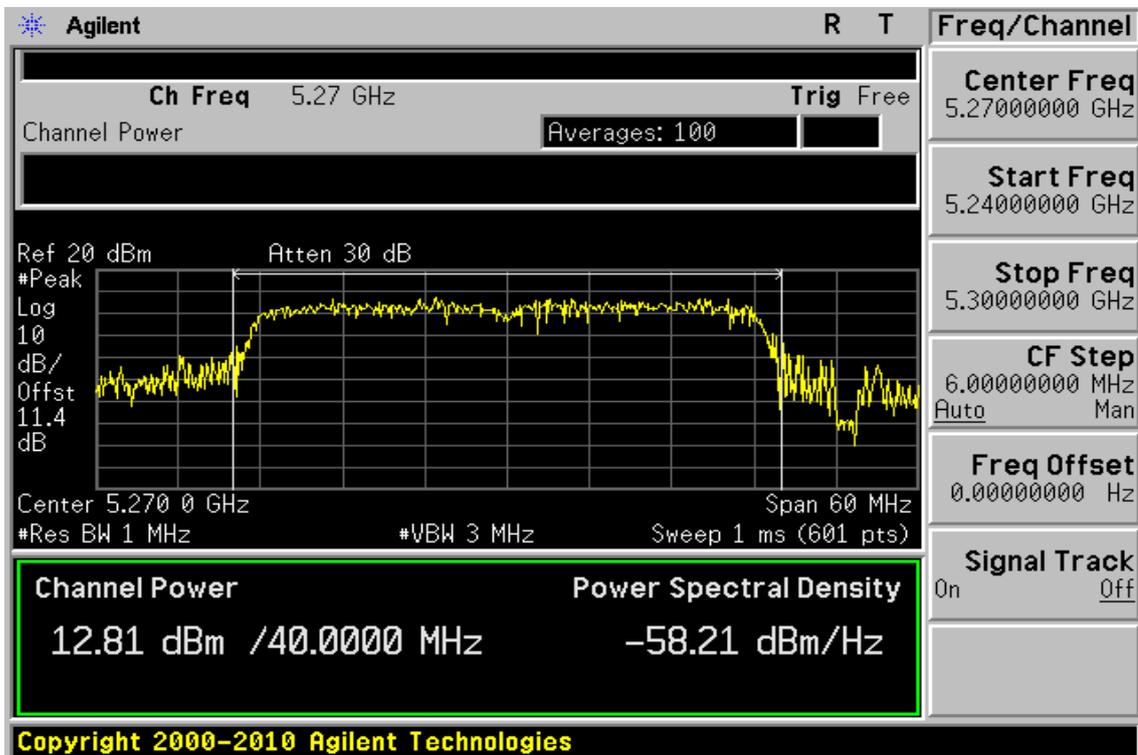


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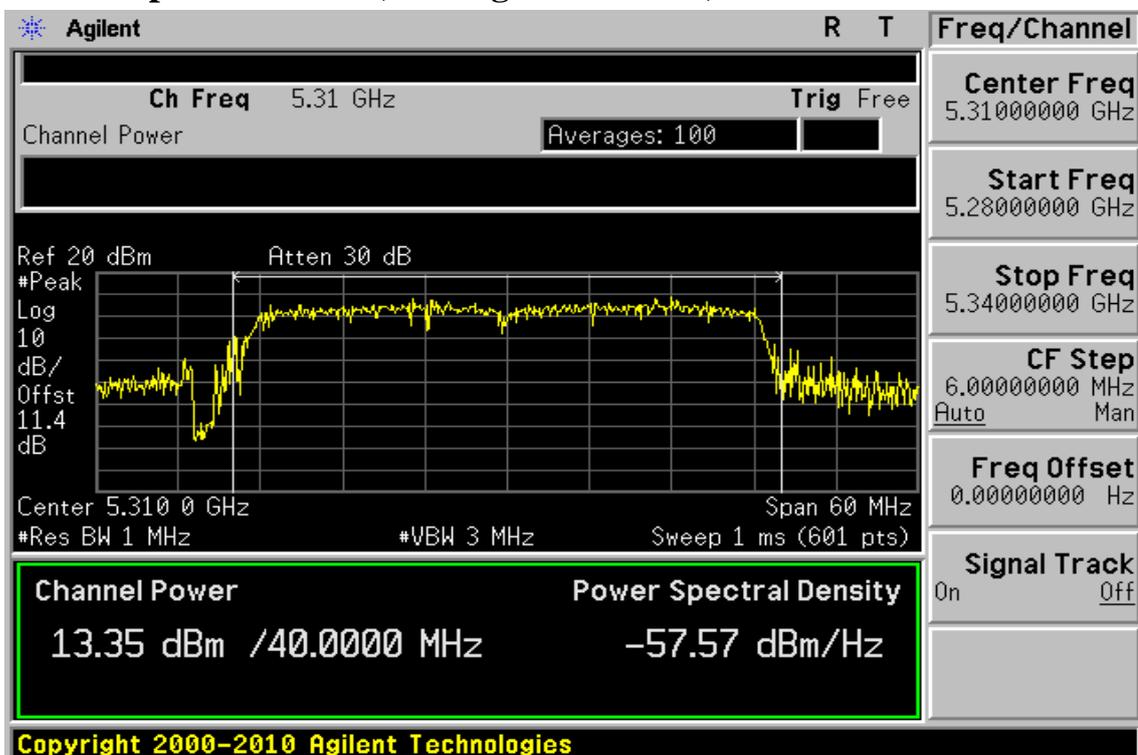
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802.11n HT40, 5250~5350 MHz

Peak Power Output Data Plot (CH Low 5270 MHz)



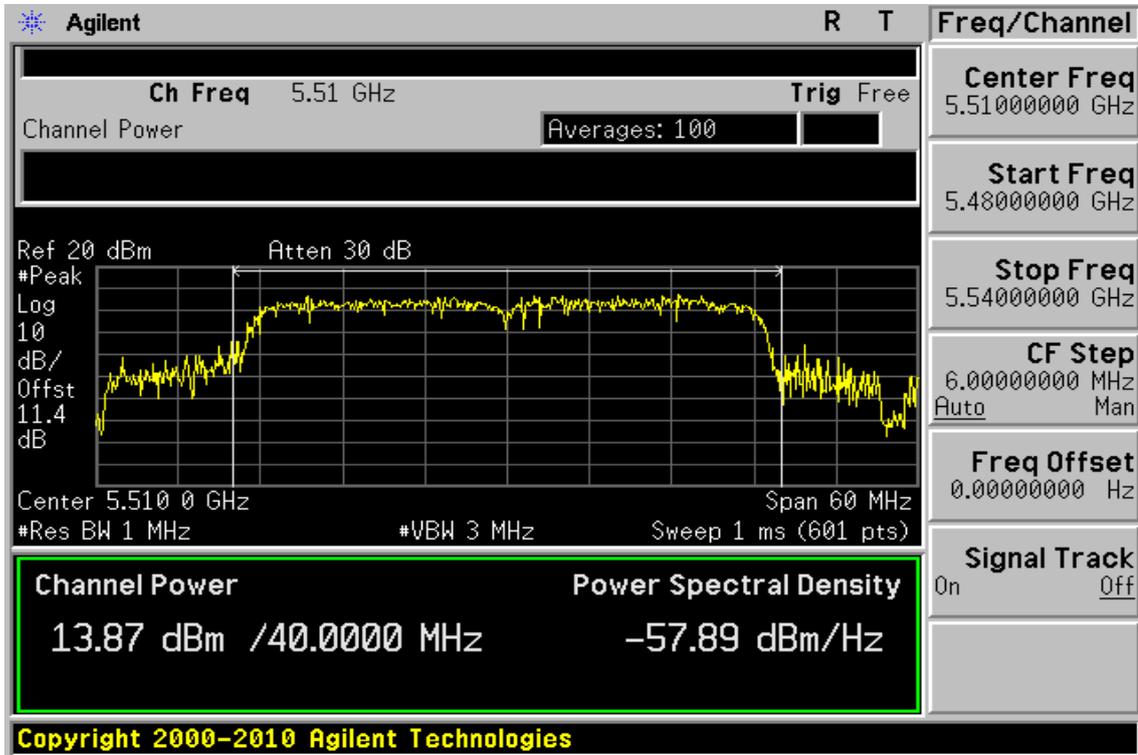
Peak Power Output Data Plot (CH High 5310 MHz)



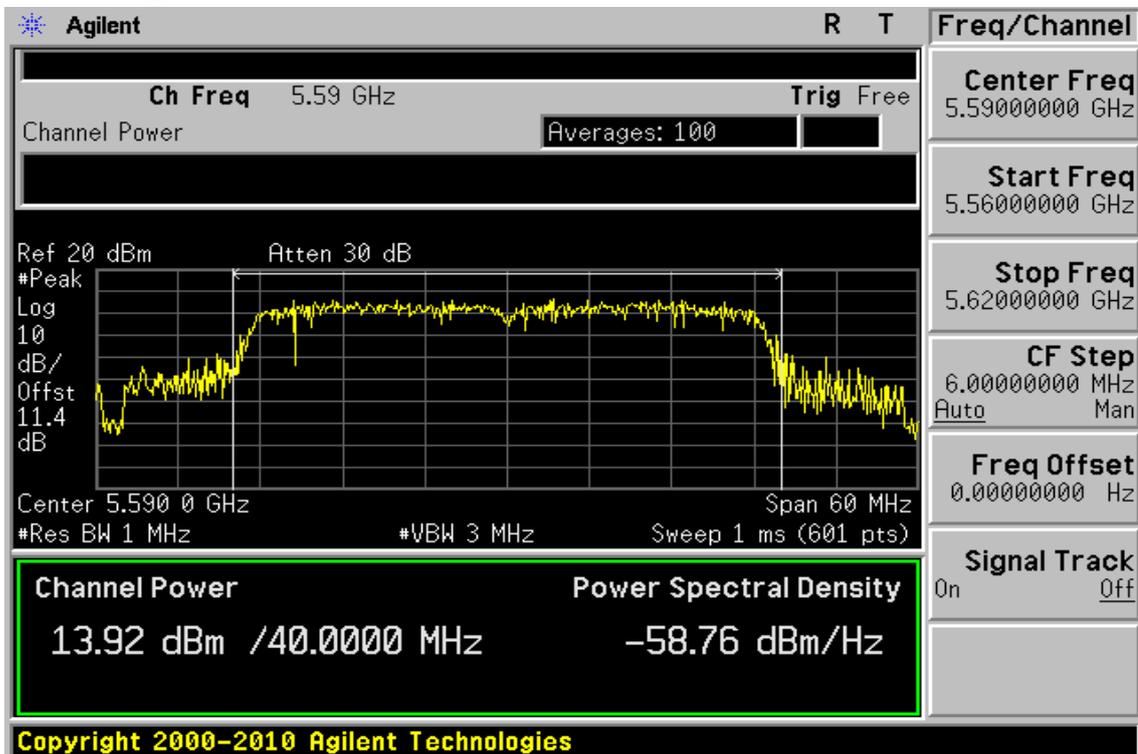
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802.11n HT40, 5470~5725 MHz
Peak Power Output Data Plot (CH Low 5510 MHz)



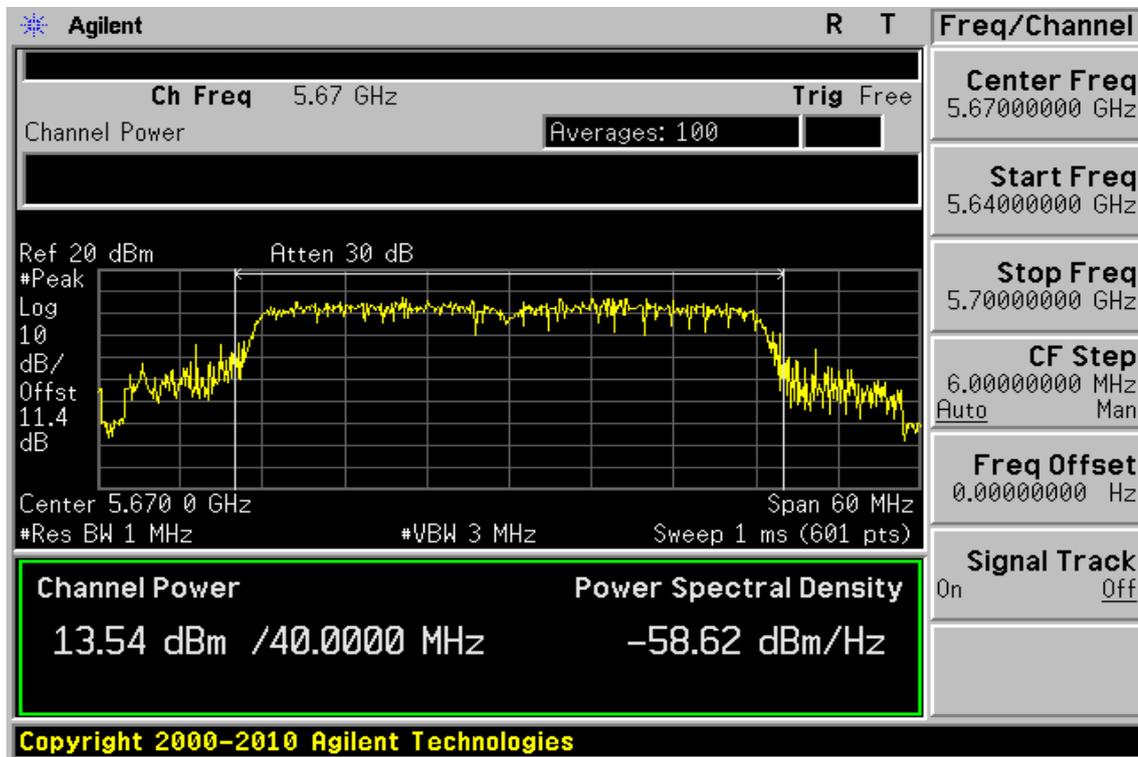
Peak Power Output Data Plot (CH Mid 5590 MHz)



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Peak Power Output Data Plot (CH High 5670 MHz)



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9. PEAK POWER SPECTRAL DENSITY

9.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

Where B is the -26dBc emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where θ is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for $0^\circ \leq \theta < 8^\circ$
- (ii) $-13 - 0.716(\theta - 8)$ dB(W/MHz) for $8^\circ \leq \theta < 40^\circ$
- (iii) $-35.9 - 1.22(\theta - 40)$ dB(W/MHz) for $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB(W/MHz) for $\theta > 45^\circ$

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3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or $23 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

B is the 99% emission bandwidth in MHz.

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
3. Set RBW=1MHz, VBW=3MHz, Span=50MHz (Base Mode), Sweep time = Auto, traces 100 sweeps of video averaging.
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

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9.4 Measurement Result

802.11a, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-5.99	4.00	-9.99
5220	-6.37	4.00	-10.37
5240	-5.49	4.00	-9.49

802.11a, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-4.56	11.00	-15.56
5300	-5.14	11.00	-16.14
5320	-5.58	11.00	-16.58

802.11a, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-5.21	11.00	-16.21
5580	-4.38	11.00	-15.38
5700	-4.95	11.00	-15.95

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-5.86	4.00	-9.86
5220	-6.38	4.00	-10.38
5240	-5.64	4.00	-9.64

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-5.20	11.00	-16.20
5300	-6.05	11.00	-17.05
5320	-5.21	11.00	-16.21

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-4.98	11.00	-15.98
5580	-4.75	11.00	-15.75
5700	-5.42	11.00	-16.42

Note: Offset 11.1dB for 2.4GHz

Offset 11.4dB for 5GHz

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-9.40	4.00	-13.40
5230	-8.12	4.00	-12.12

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	-8.77	11.00	-19.77
5310	-8.84	11.00	-19.84

802.11n HT40, 5470~5725 MHz

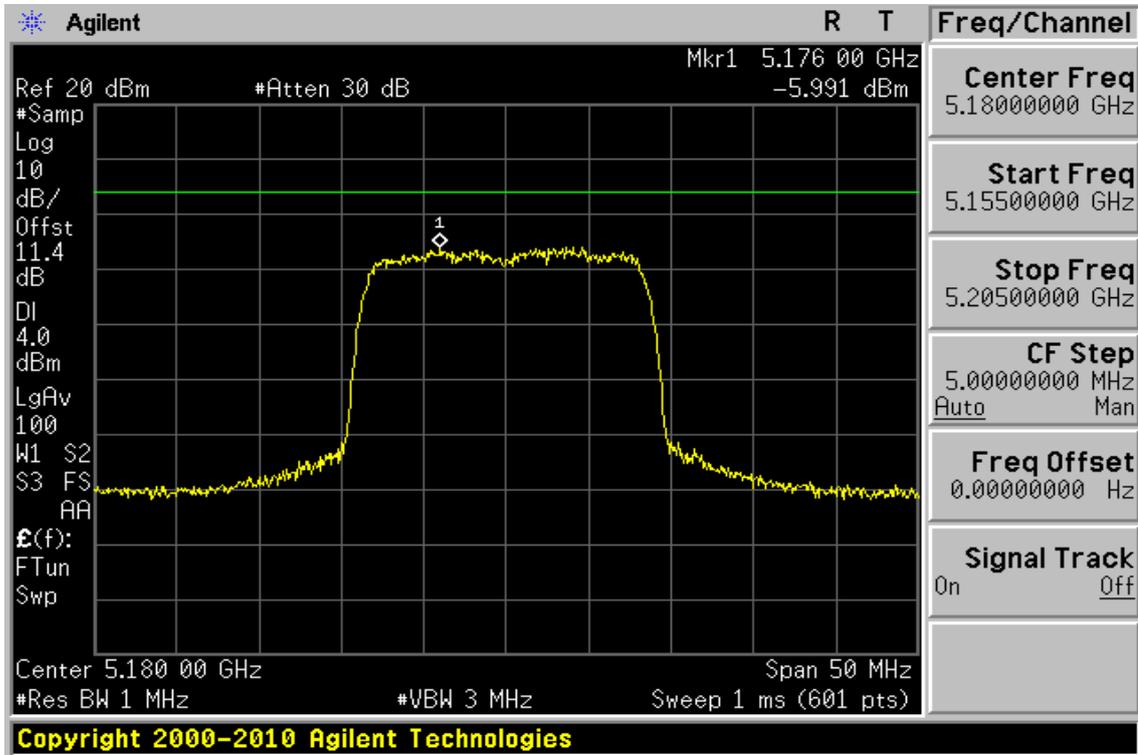
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5510	-7.54	11.00	-18.54
5590	-7.49	11.00	-18.49
5670	-8.53	11.00	-19.53

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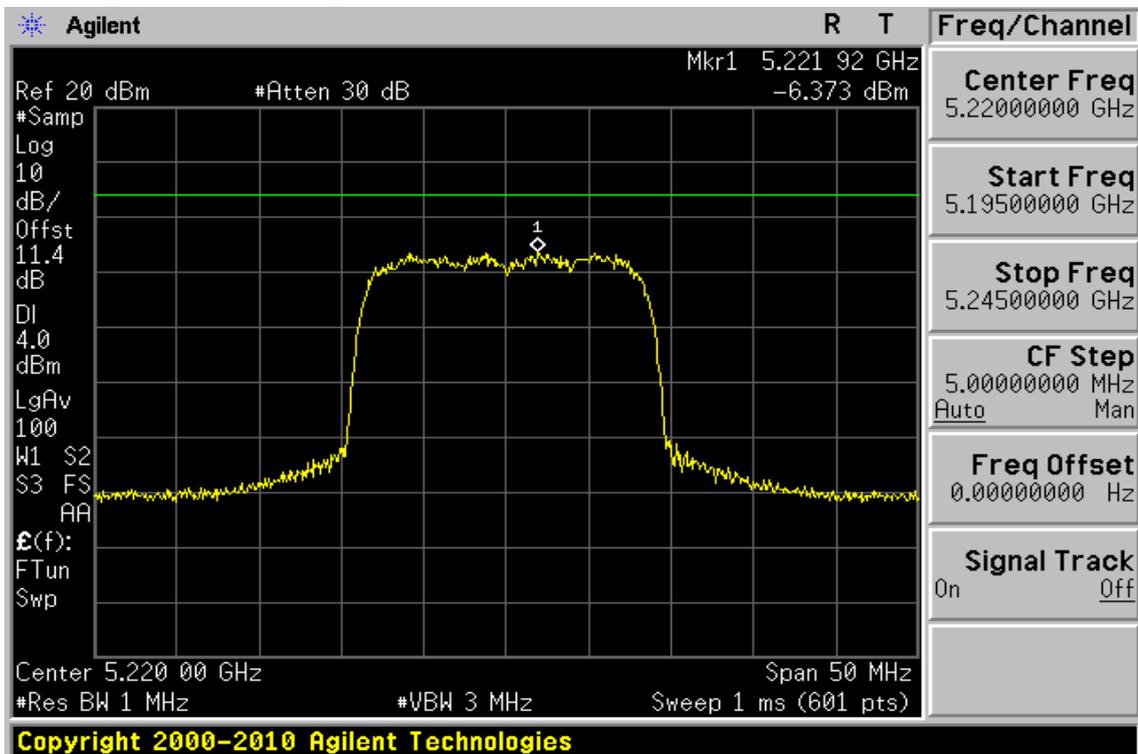
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802.11a, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



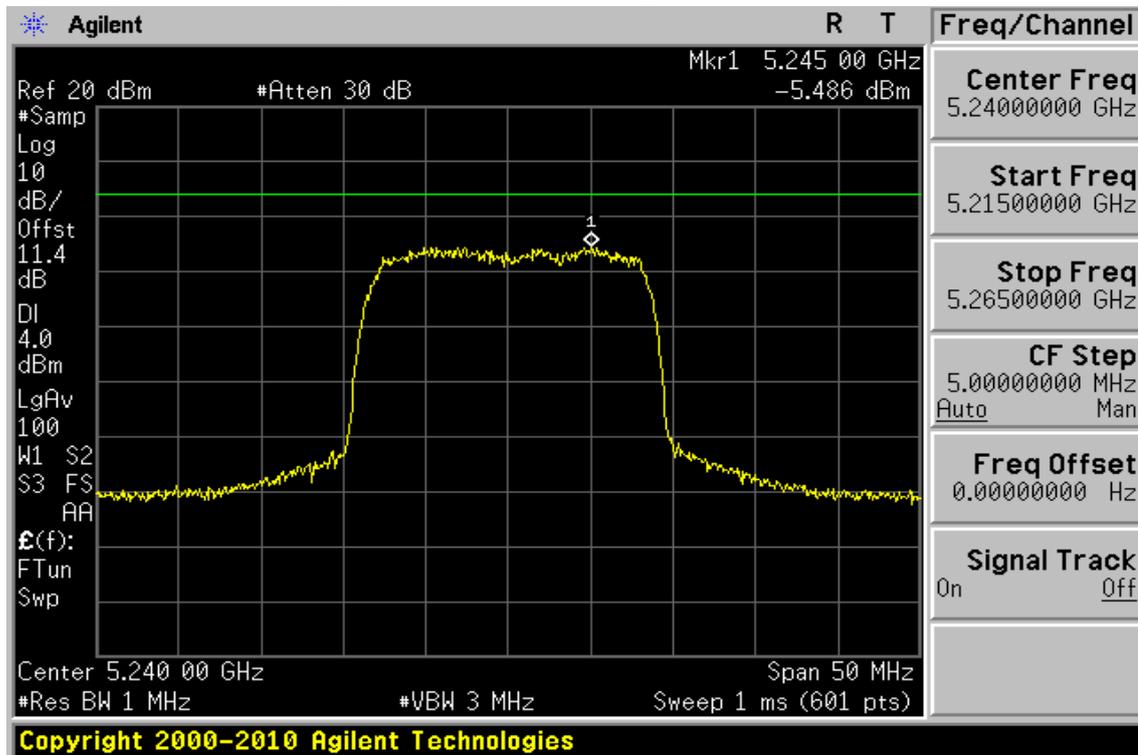
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)

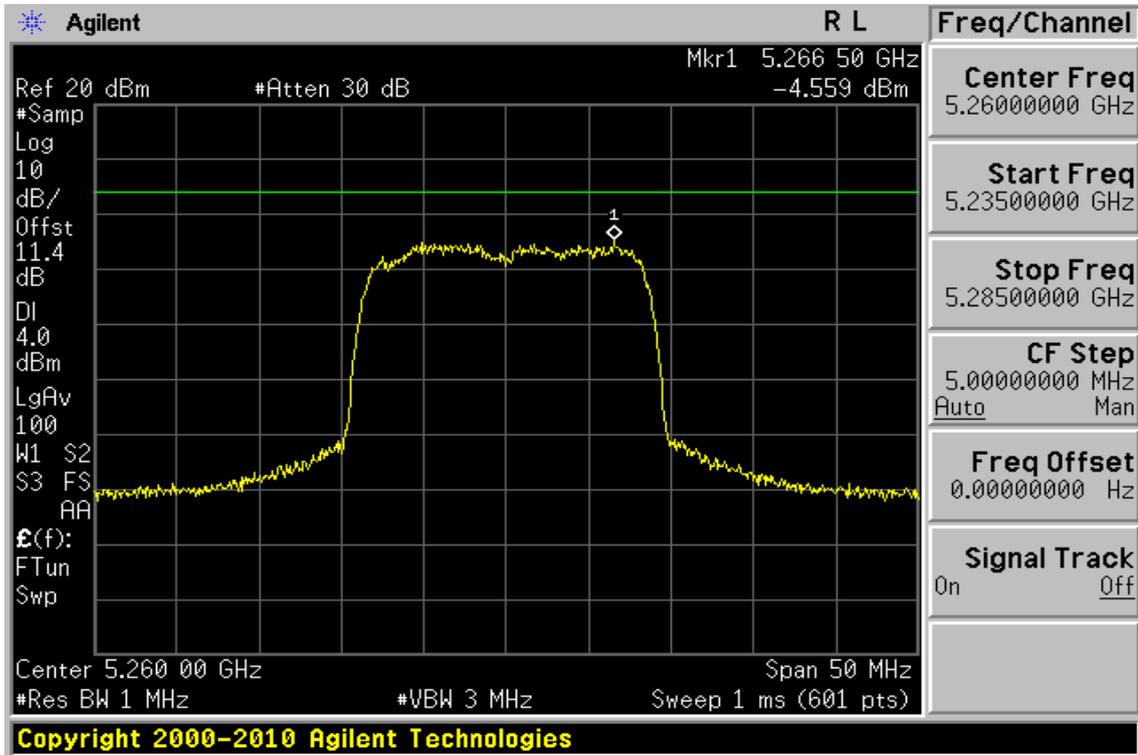


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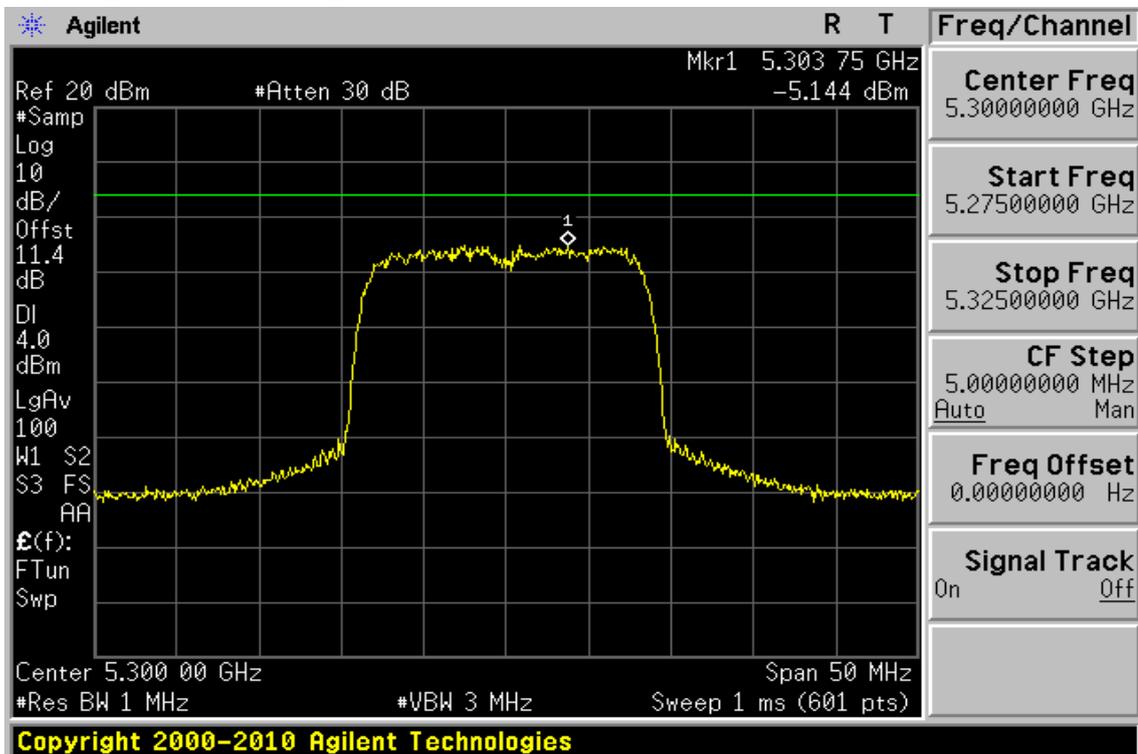
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802.11a, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



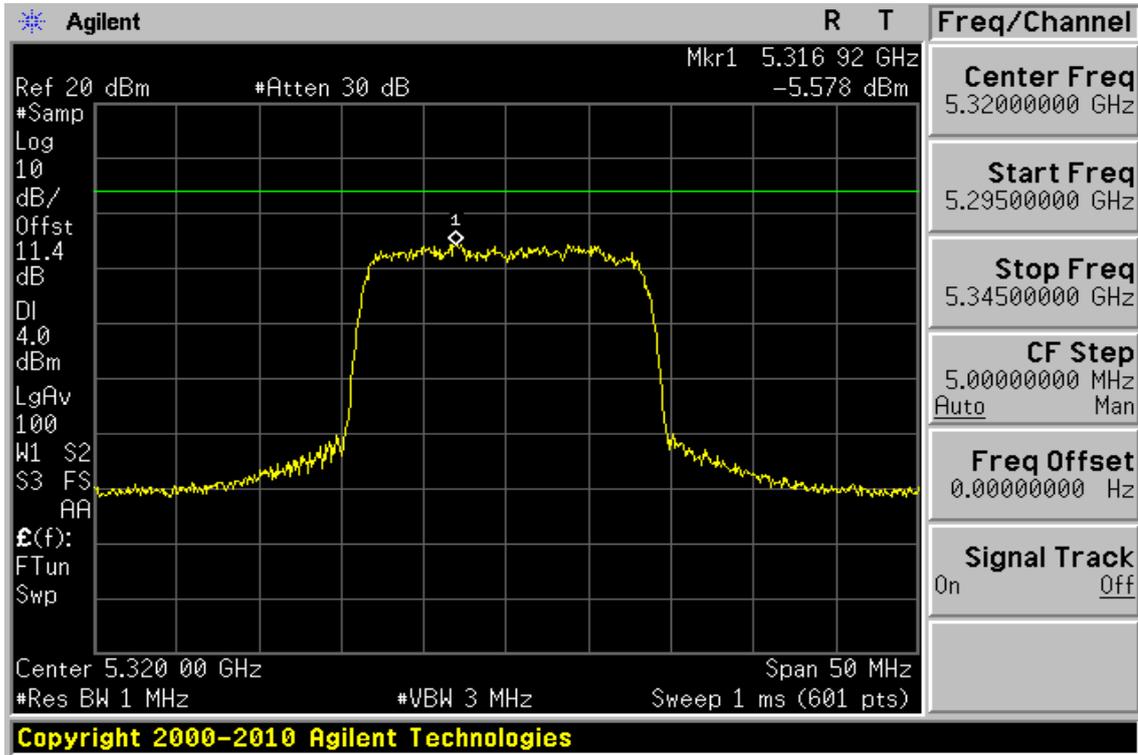
Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)

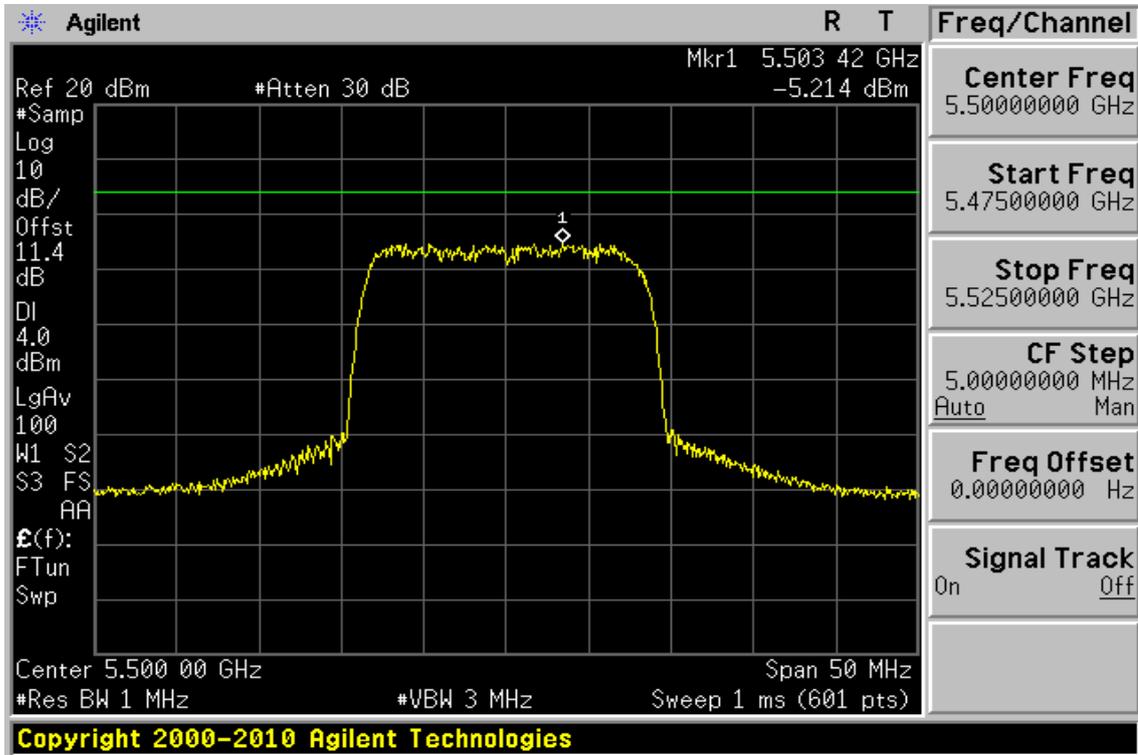


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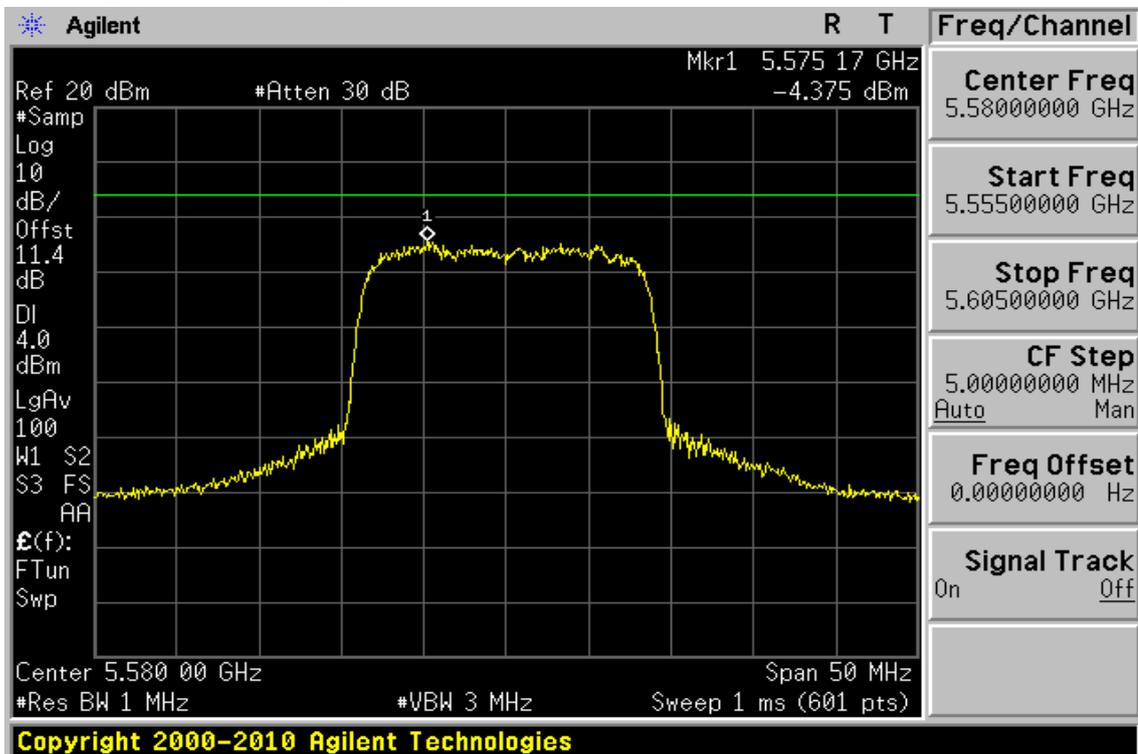
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802.11a, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



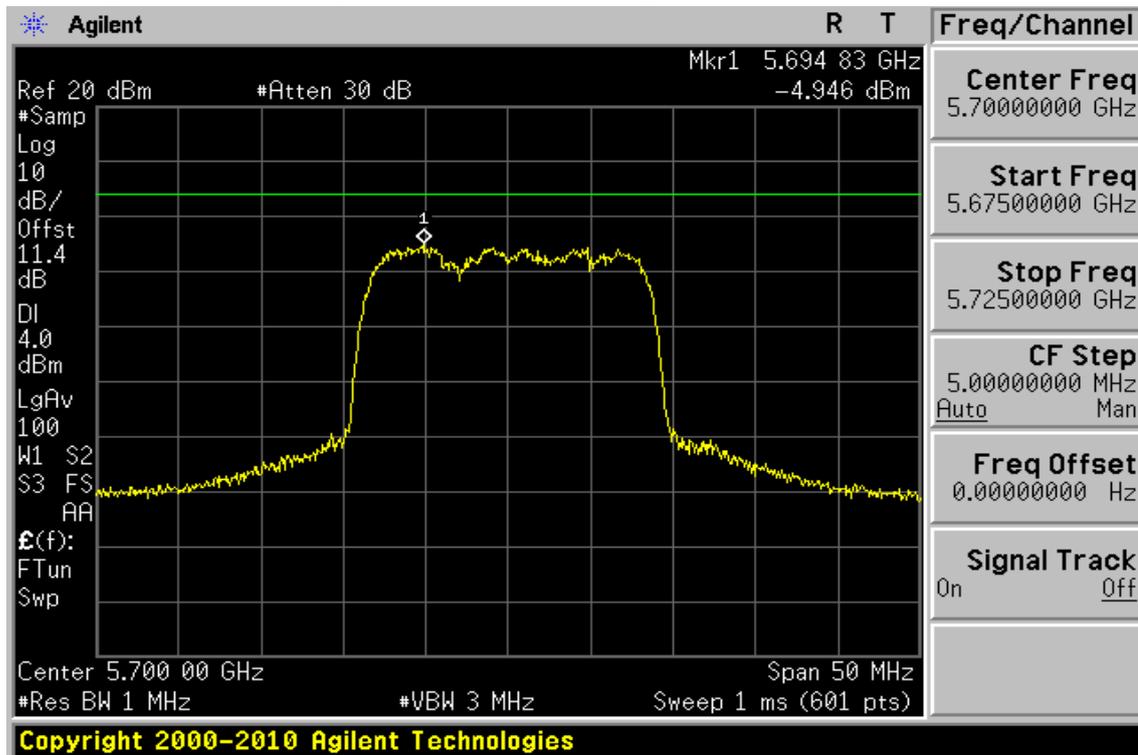
Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)

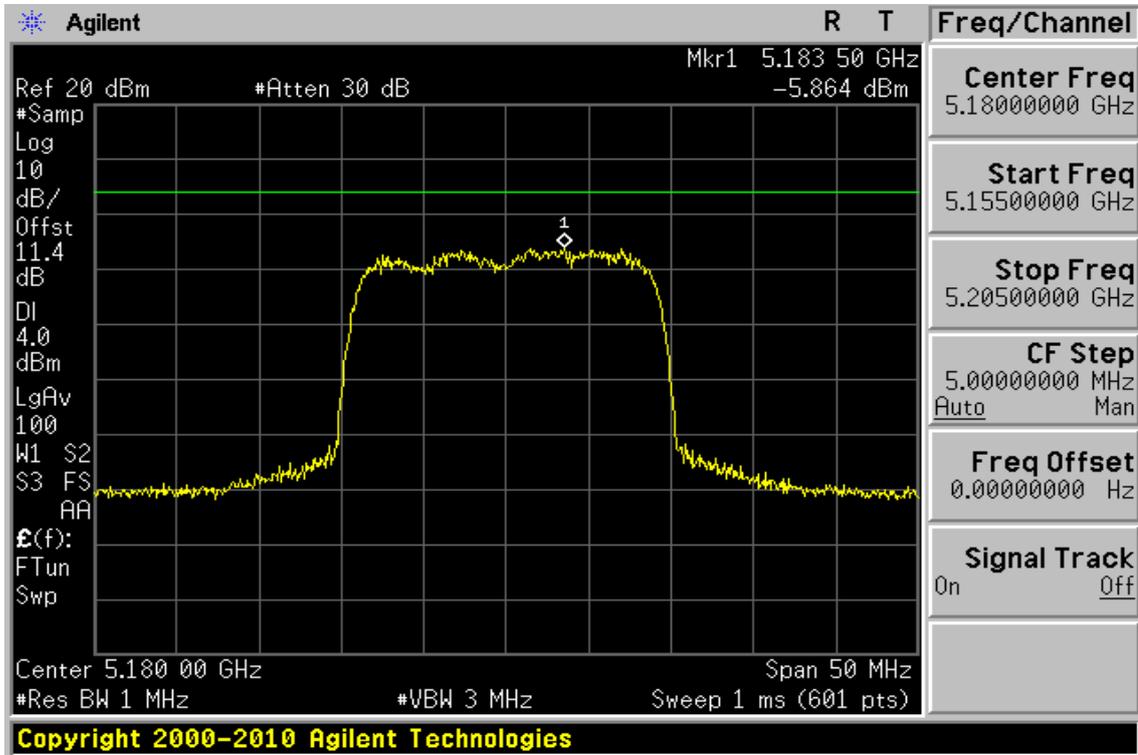


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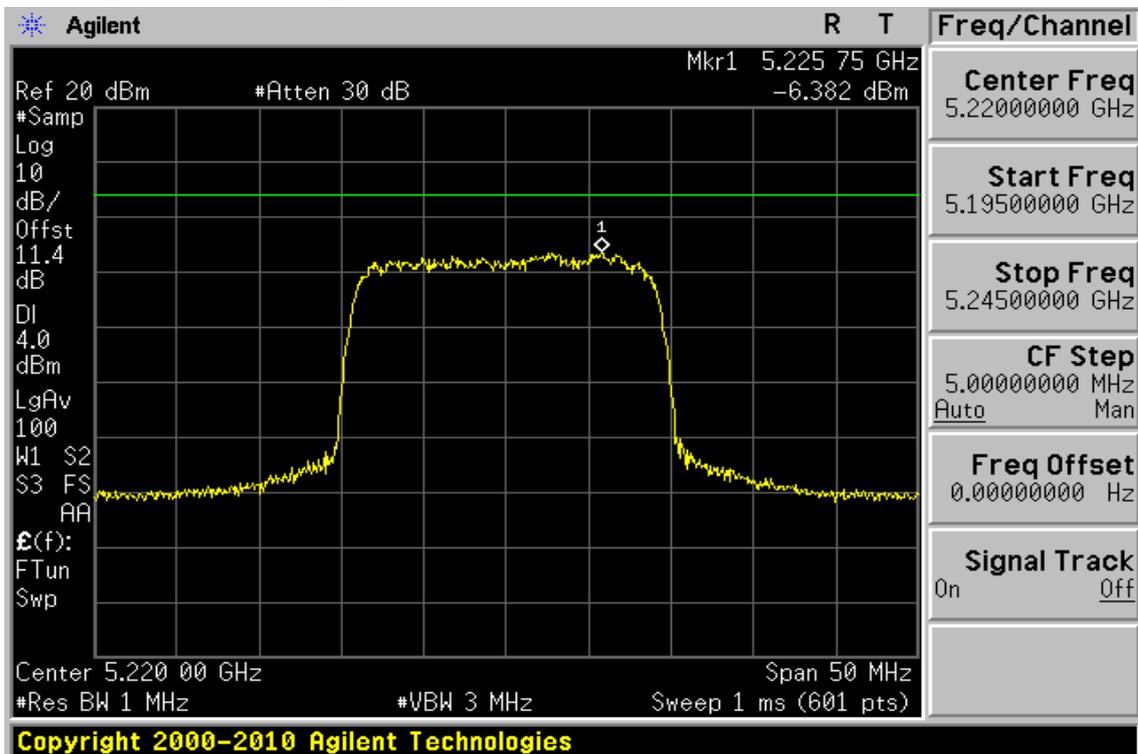
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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



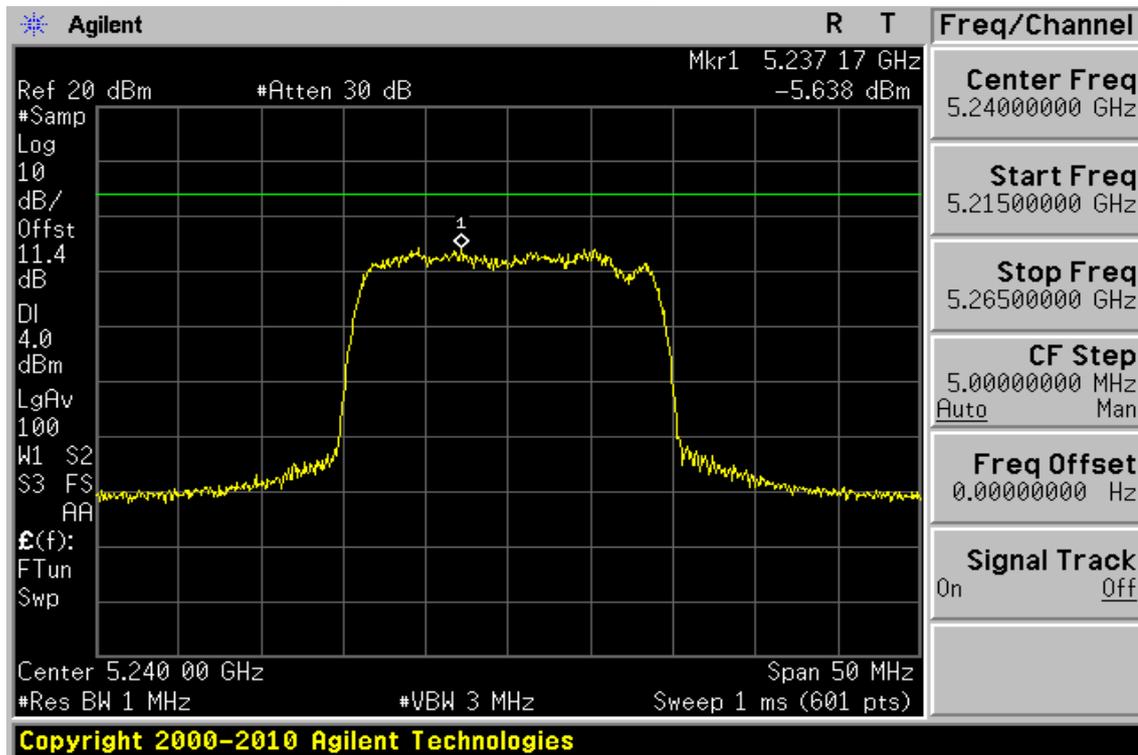
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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Peak Power Spectral Density Data Plot (CH High 5240 MHz)

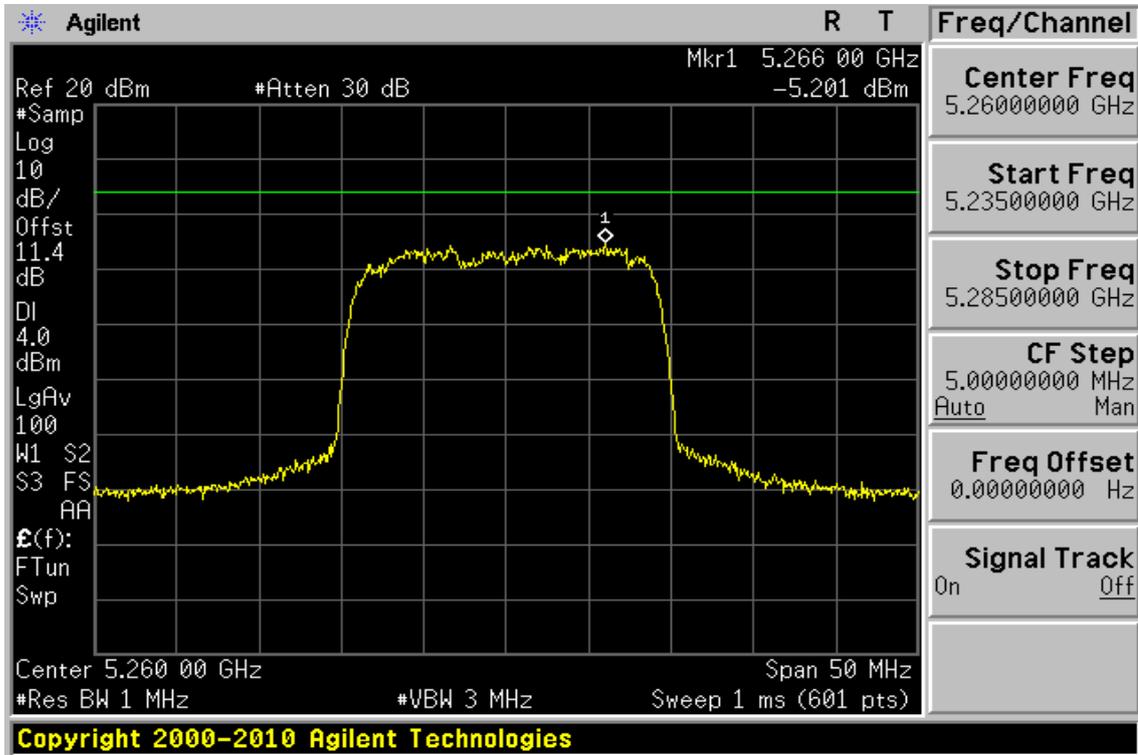


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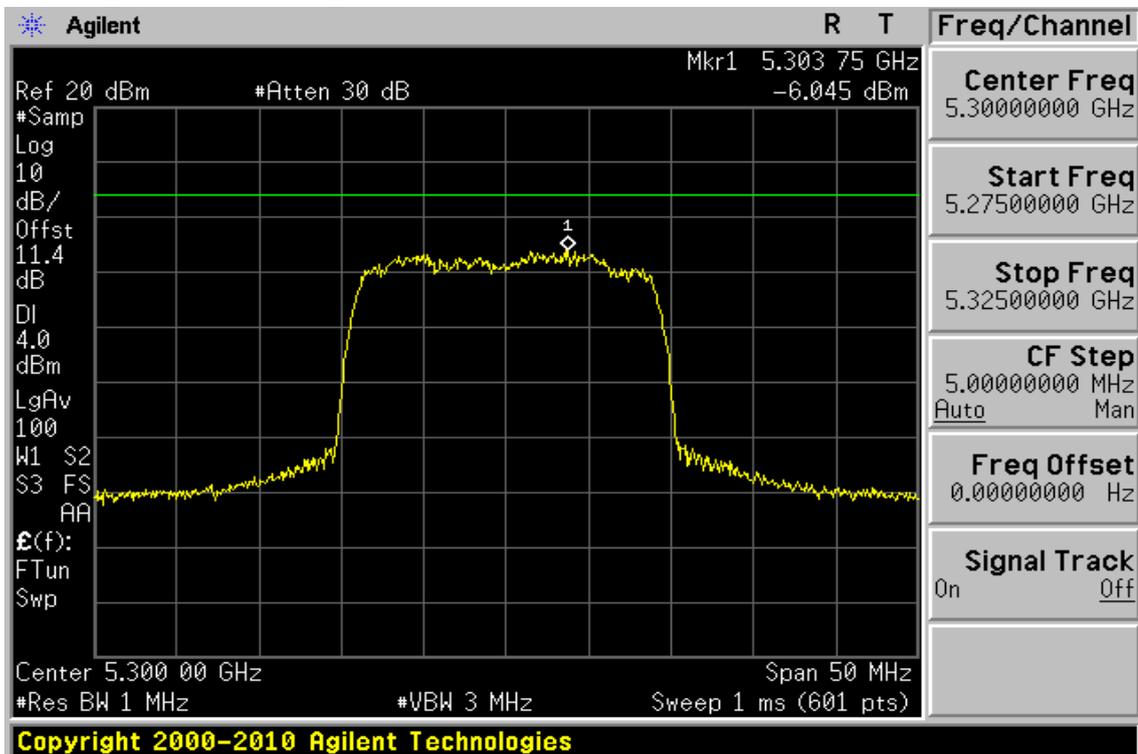
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802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



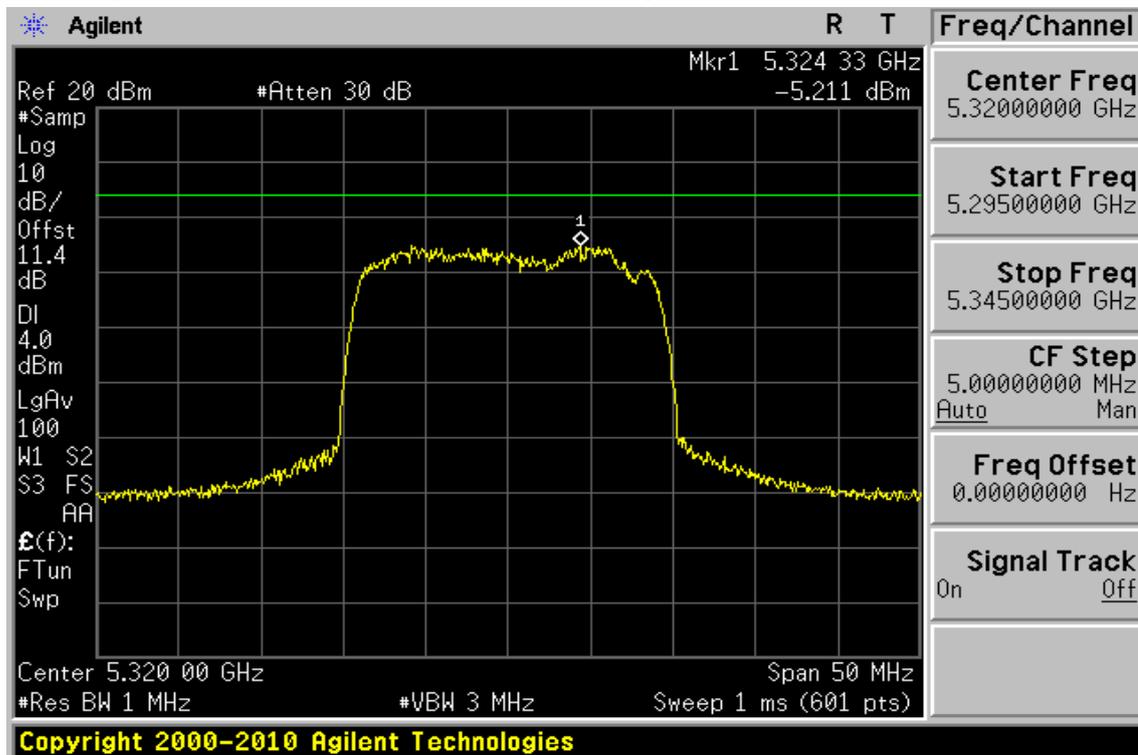
Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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Peak Power Spectral Density Data Plot (CH High 5320 MHz)

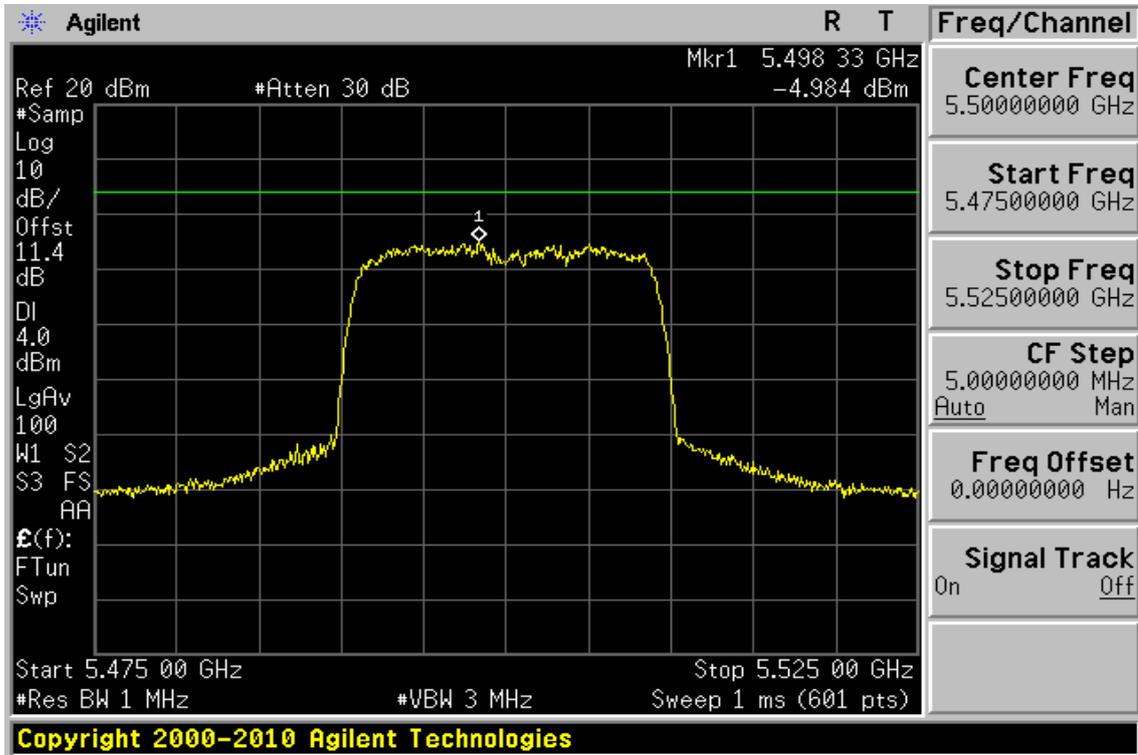


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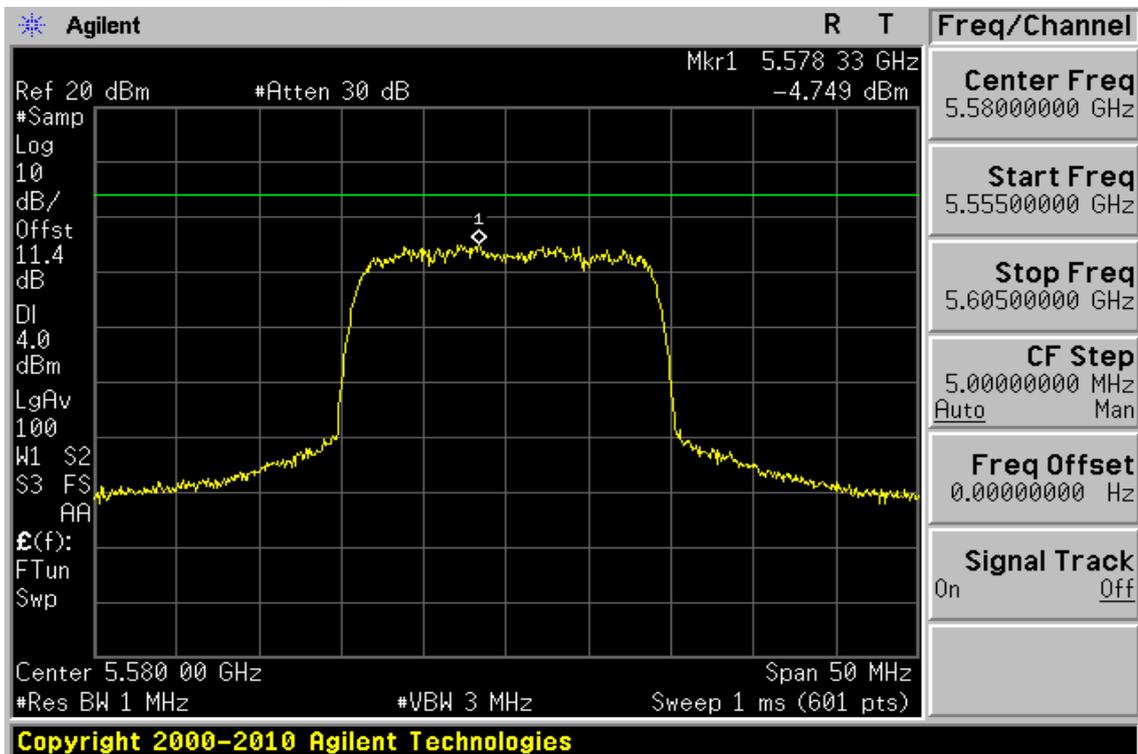
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802.11n HT20, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



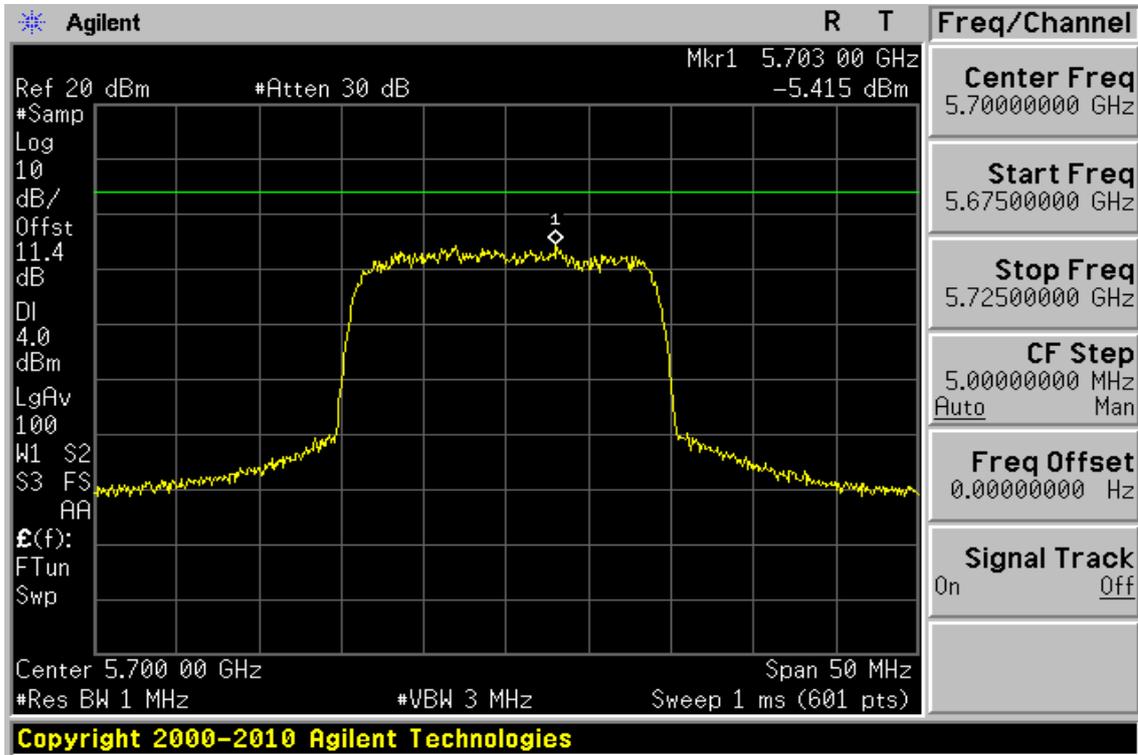
Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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Peak Power Spectral Density Data Plot (CH High 5700 MHz)

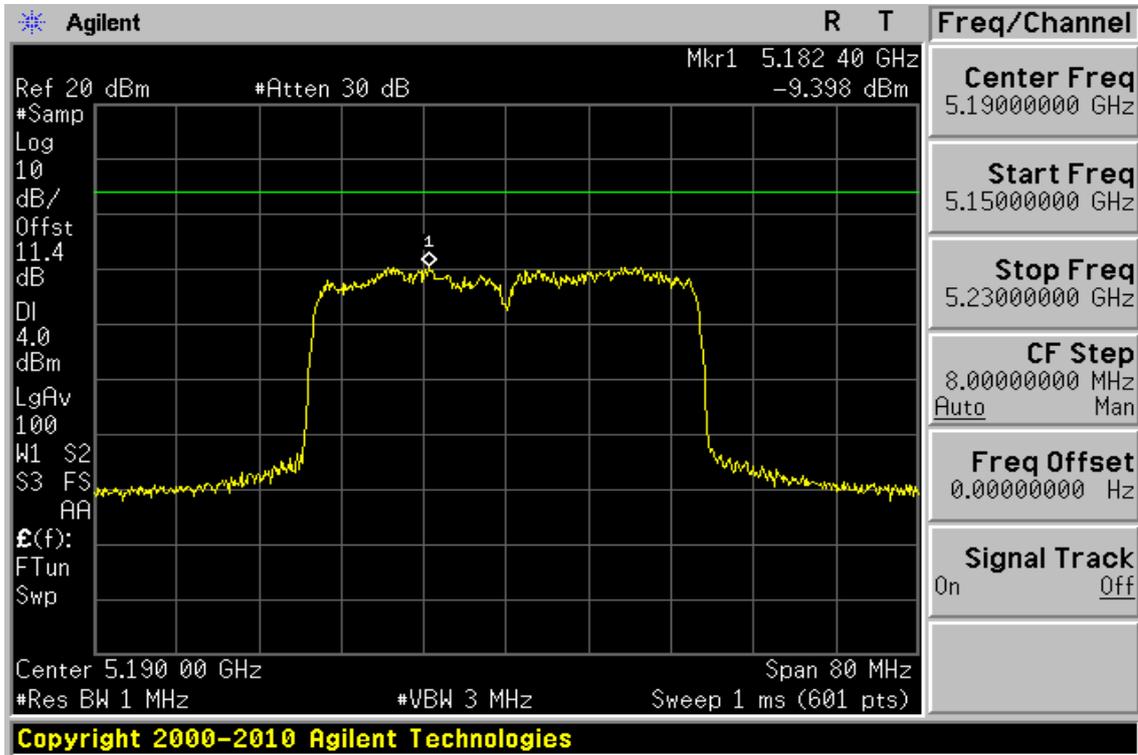


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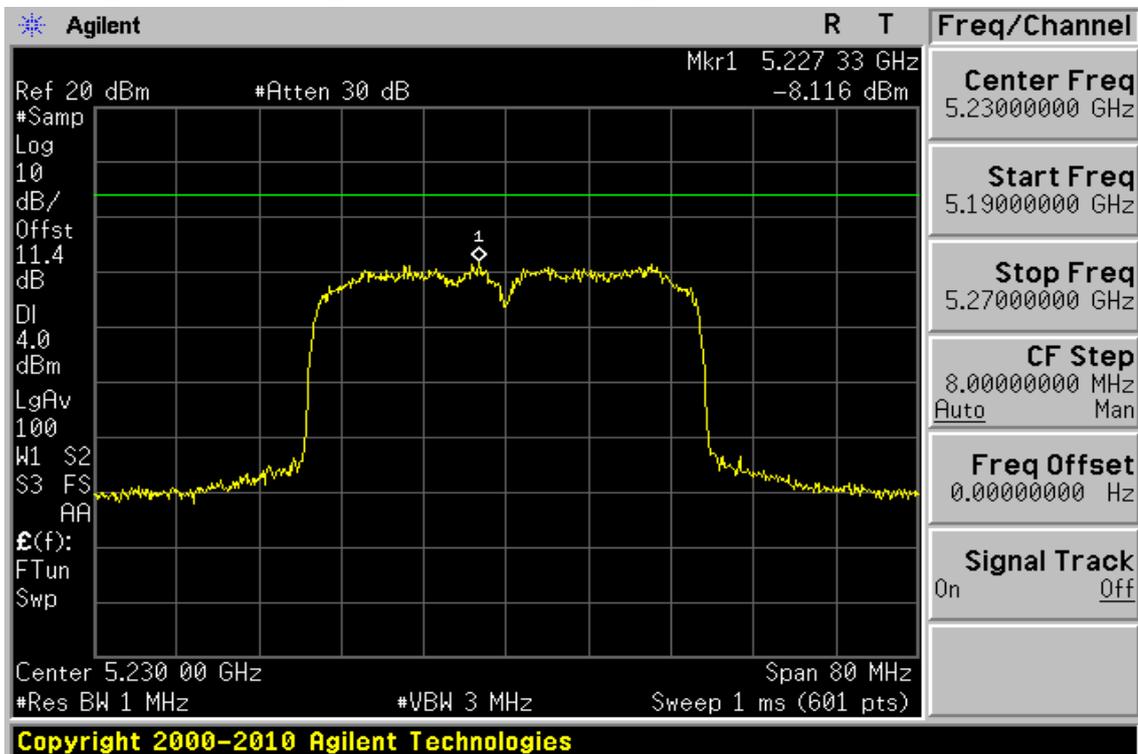
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802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)

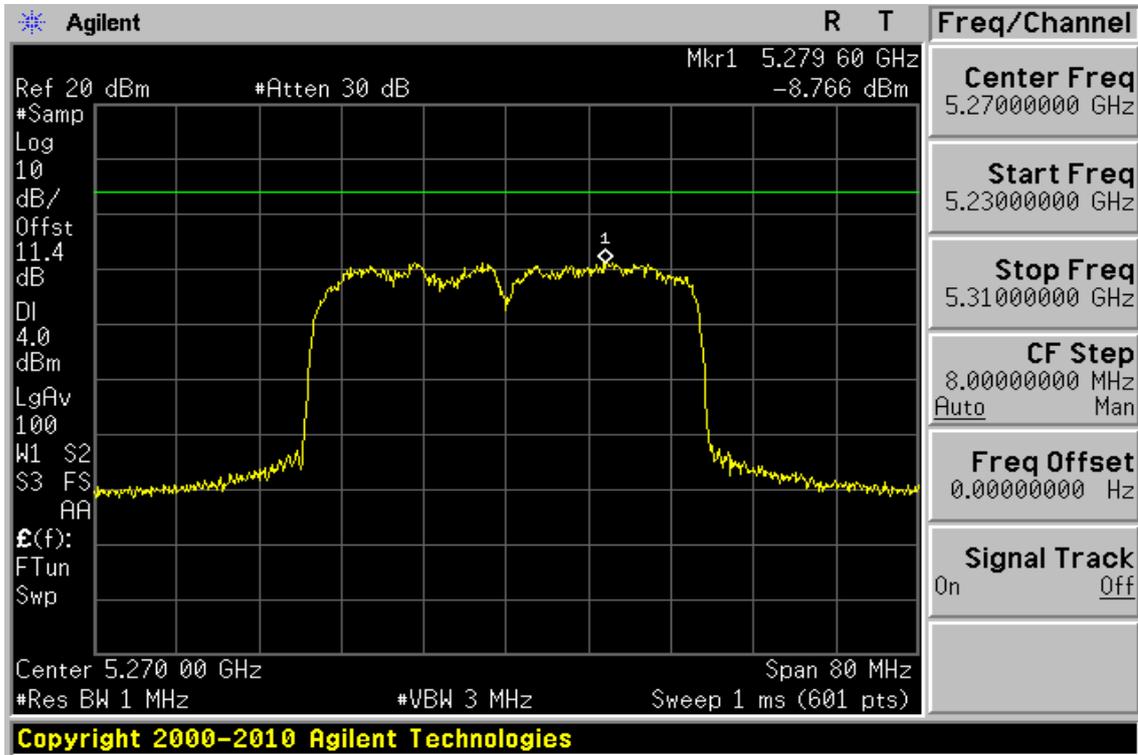


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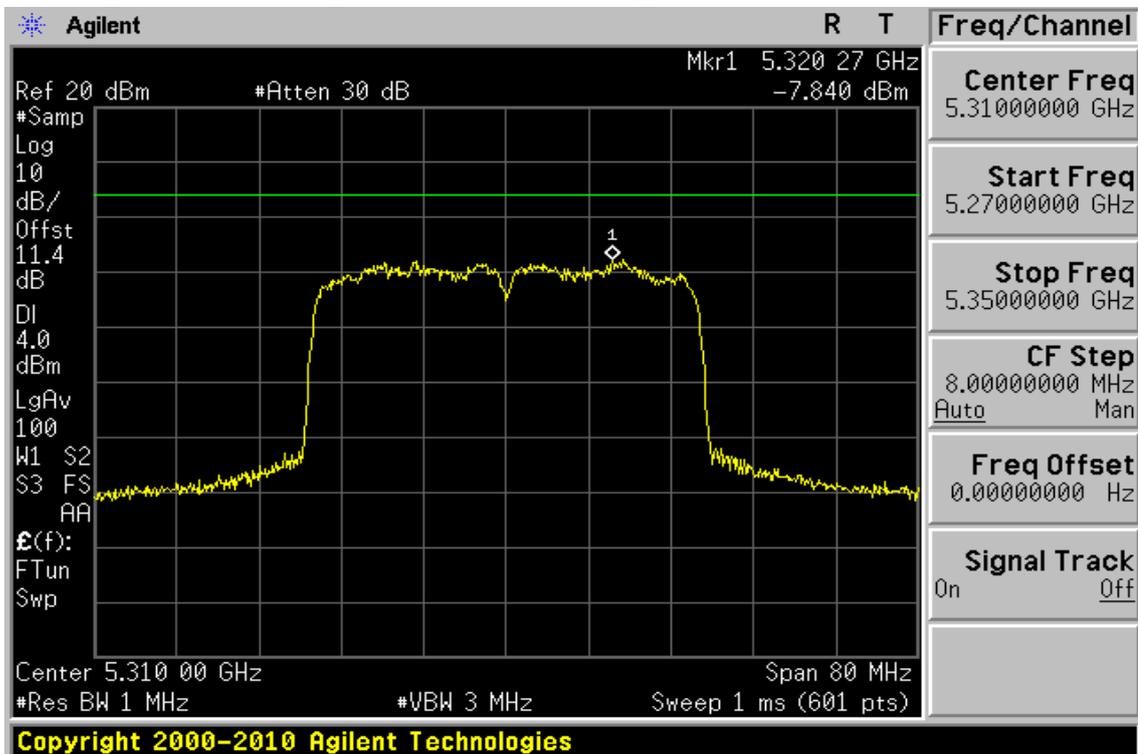
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802.11n HT40, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)

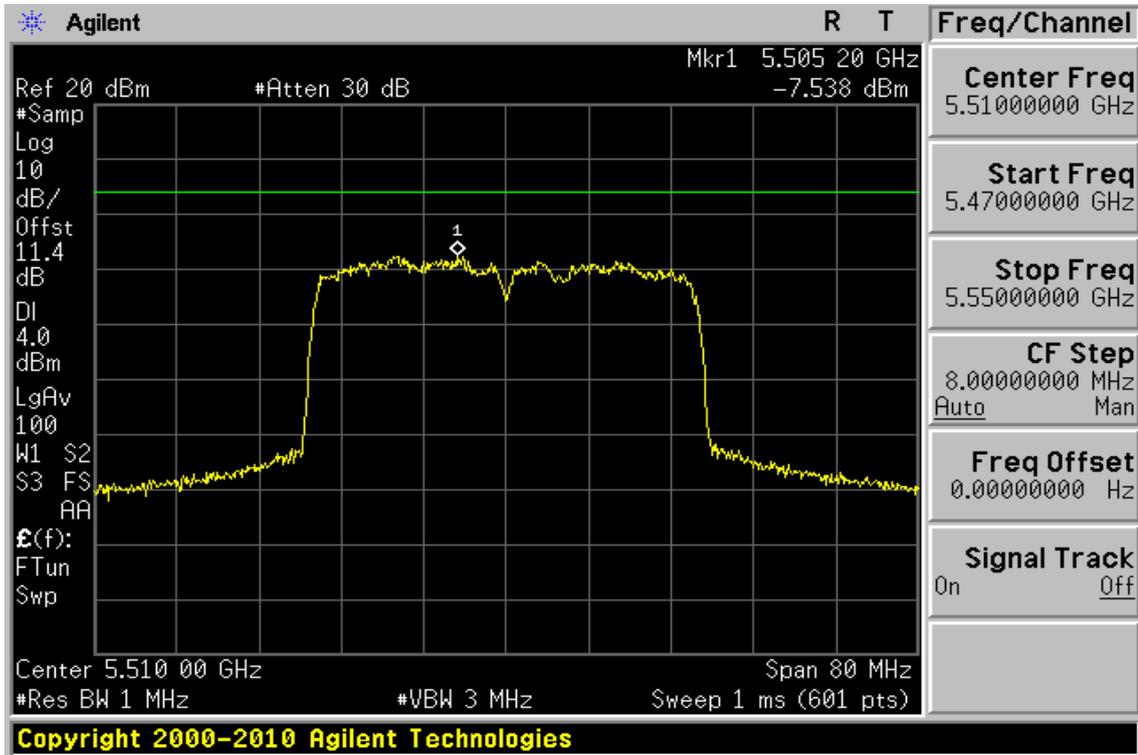


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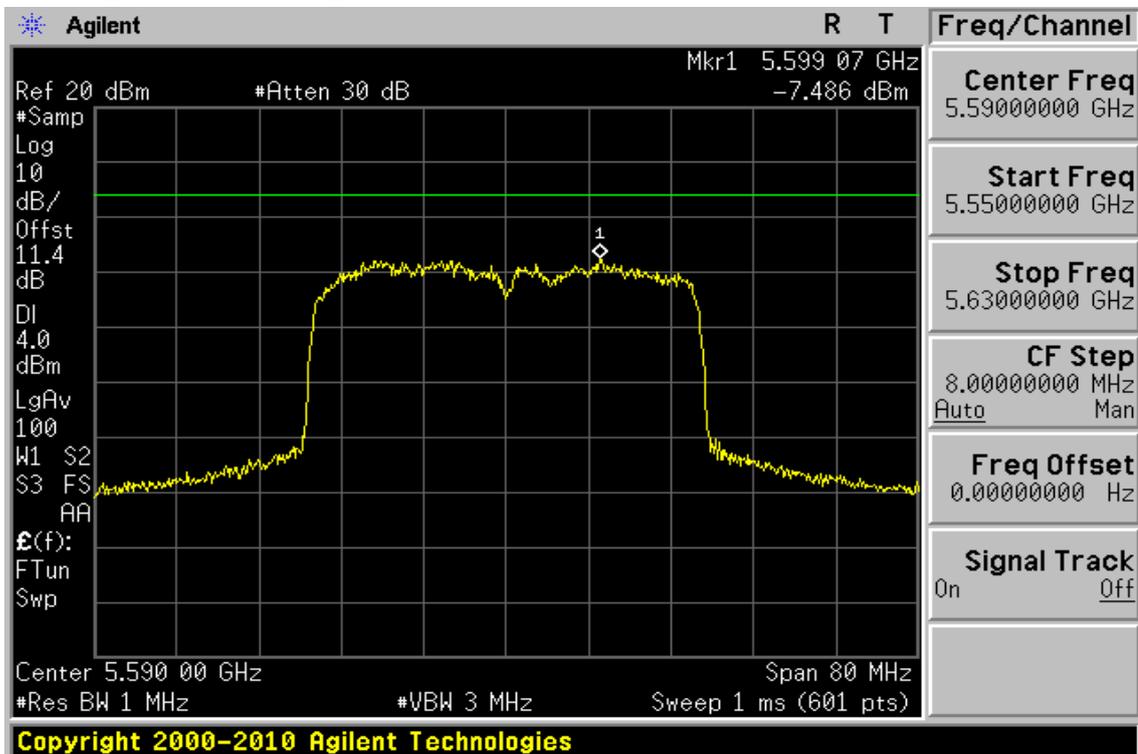
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802.11n HT40, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



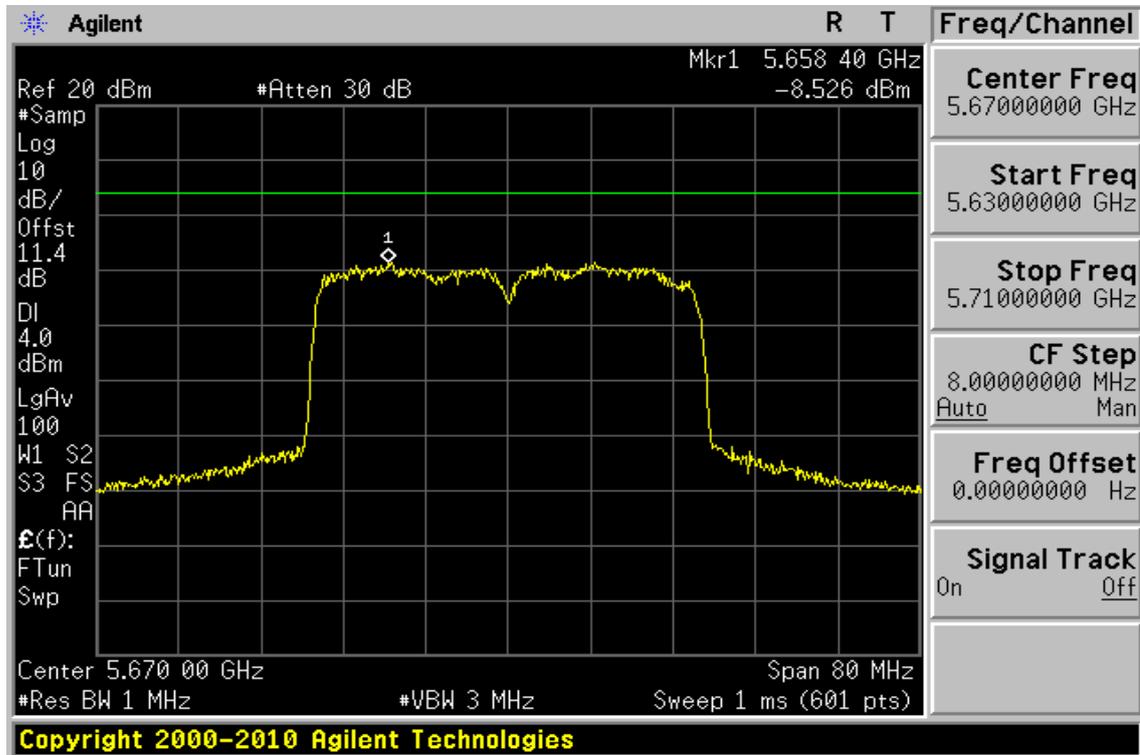
Peak Power Spectral Density Data Plot (CH Mid 5590 MHz)



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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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10. PEAK EXCURSION MEASUREMENT

10.1 Standard Applicable

15.407(a)(6) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Trace A, Set RBW=1MHz, VBW = 3MHz, Span = 26dBc, Max. hold.
4. Trace B, Set RBW=1MHz, VBW = 30KHz, Span = 26dBc, Max. hold..
5. Delta Mark trace A center frequency and trace B center frequency.
6. Repeat above procedures until all frequency measured were complete.

10.3 Measurement Equipment Used:

Refer to section 7.3 for details.

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10.4 Test Results:

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	7.15	13.00	-5.85
Mid	5220	5.51	13.00	-7.49
High	5240	6.71	13.00	-6.29

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	6.71	13.00	-6.29
Mid	5300	6.56	13.00	-6.44
High	5320	6.58	13.00	-6.42

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5500	6.81	13.00	-6.19
Mid	5580	6.48	13.00	-6.52
High	5700	6.04	13.00	-6.96

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802.11n HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	6.96	13.00	-6.04
Mid	5220	6.96	13.00	-6.04
High	5240	6.86	13.00	-6.14

802.11n HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	7.21	13.00	-5.79
Mid	5300	6.37	13.00	-6.63
High	5320	7.69	13.00	-5.31

802.11n HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5500	7.66	13.00	-5.34
Mid	5580	7.05	13.00	-5.95
High	5700	7.27	13.00	-5.73

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802.11n HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5190	8.55	13.00	-4.45
High	5230	9.15	13.00	-3.85

802.11n HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5270	6.14	13.00	-6.86
High	5310	7.21	13.00	-5.79

802.11n HT40, 5470~5725 MHz

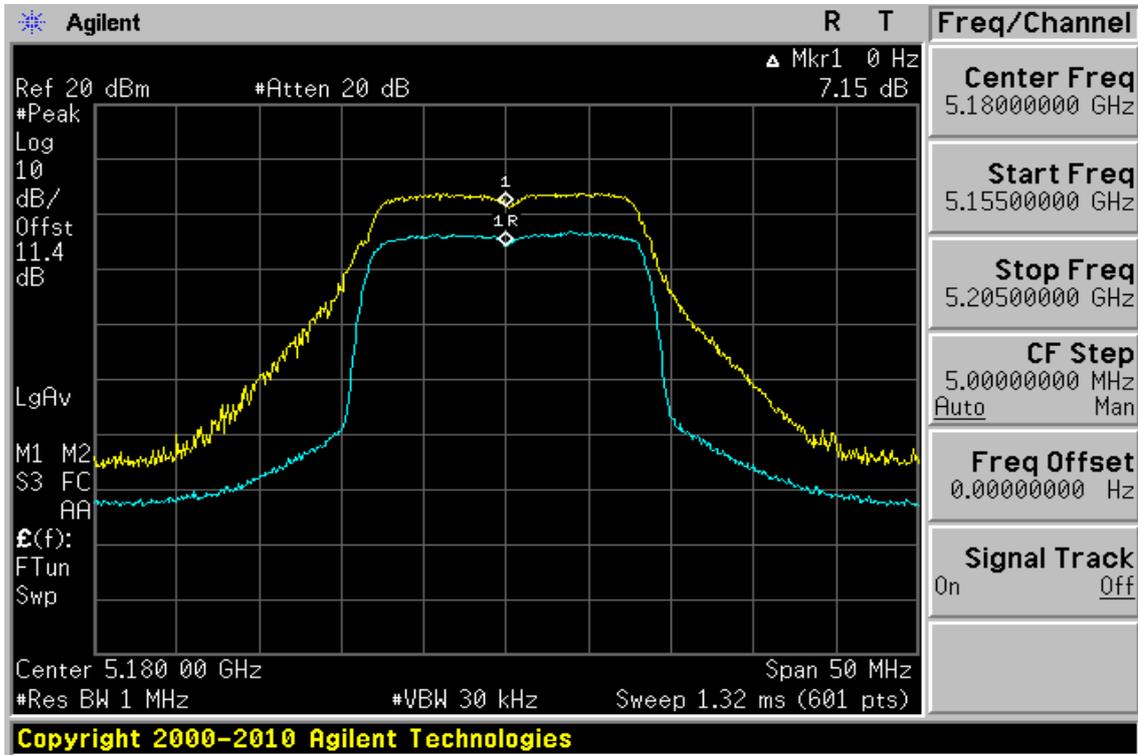
Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5510	8.02	13.00	-4.98
Mid	5590	8.44	13.00	-4.56
High	5670	6.58	13.00	-6.42

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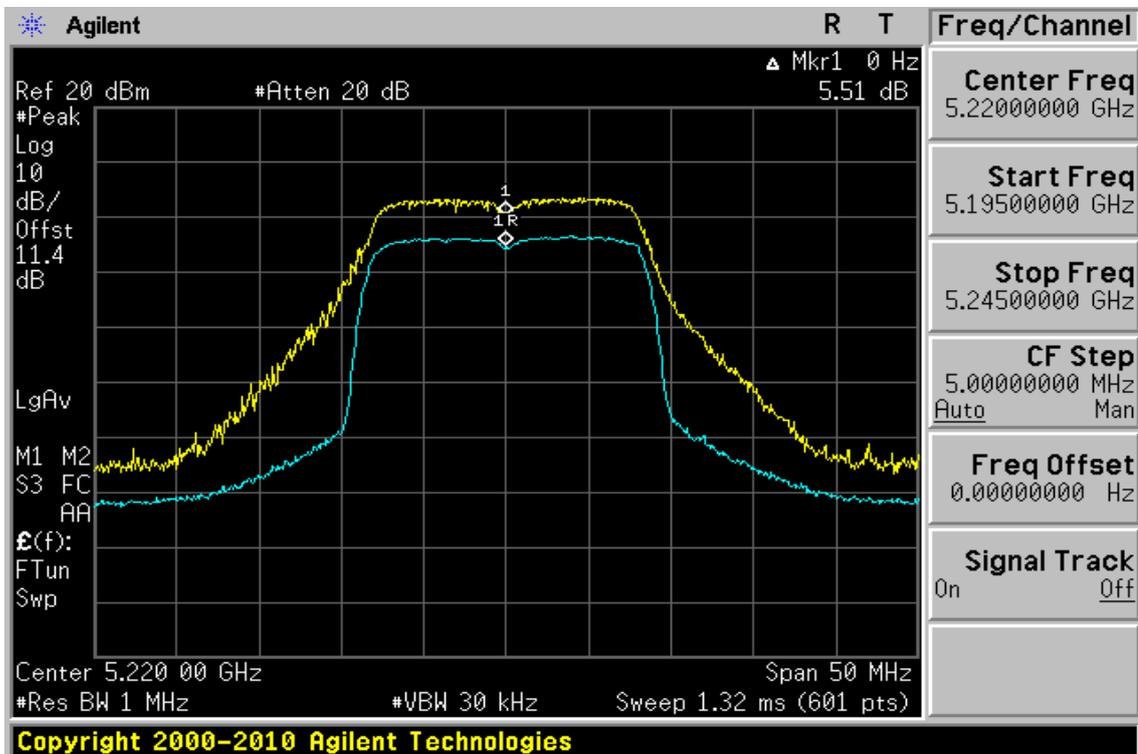
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802.11a, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)



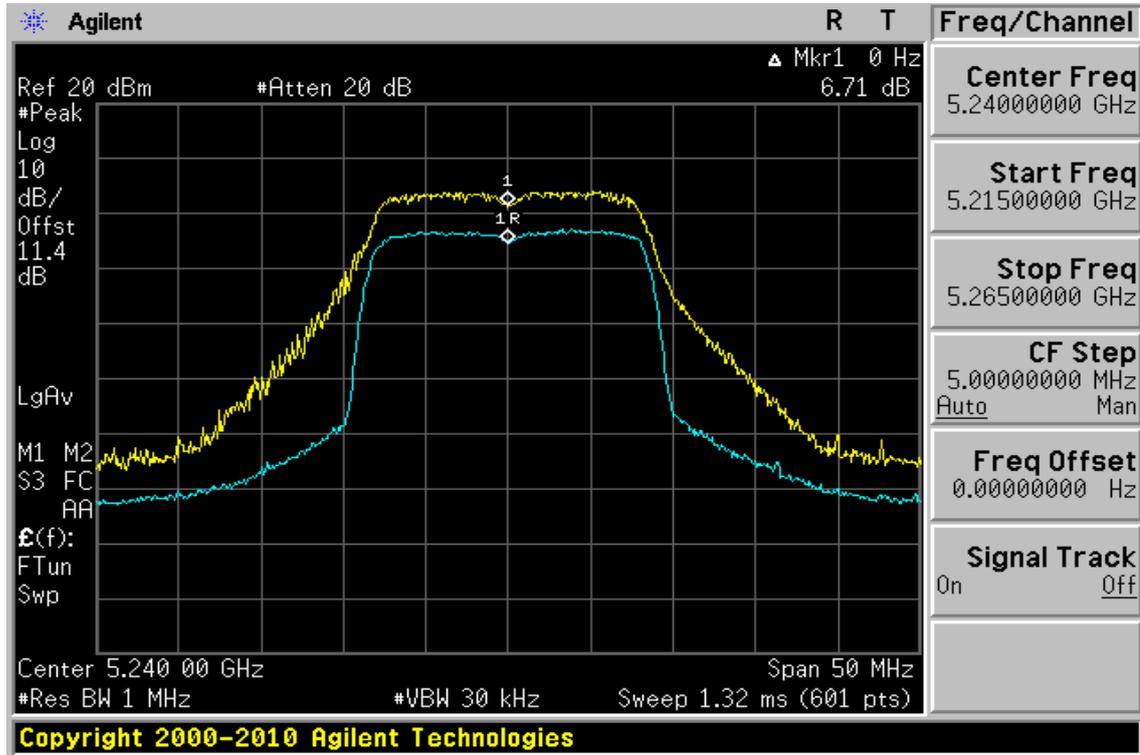
Peak Excursion Data Plot (CH Mid 5220 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)

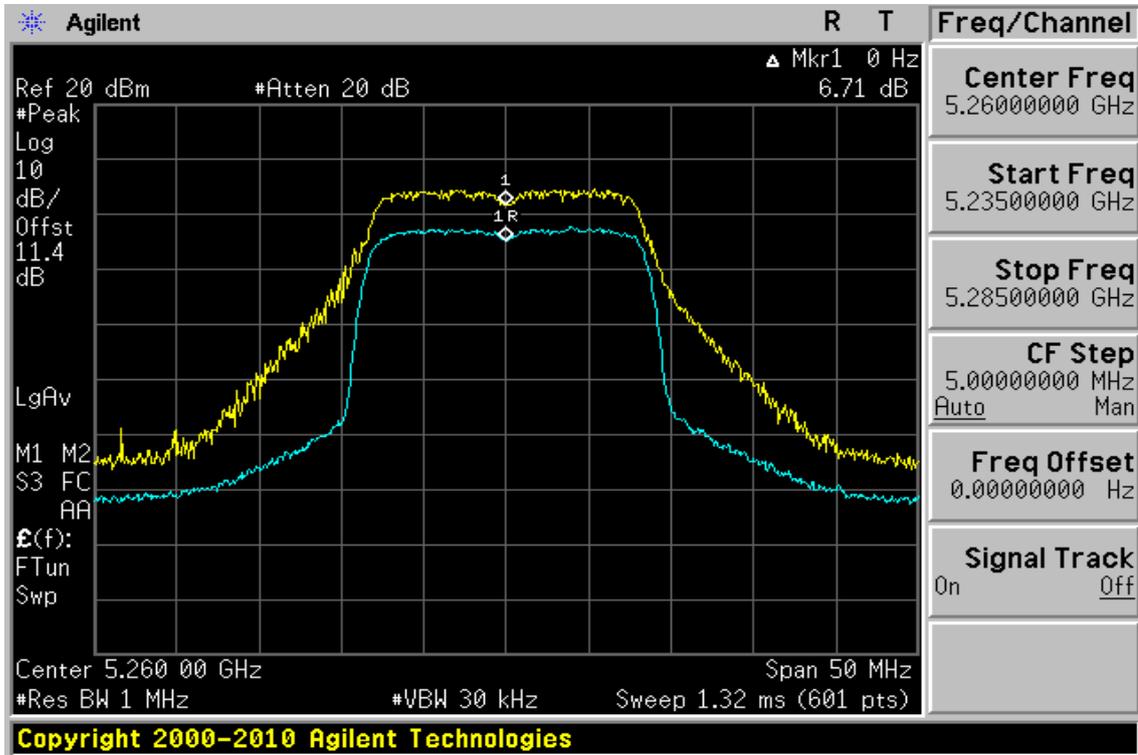


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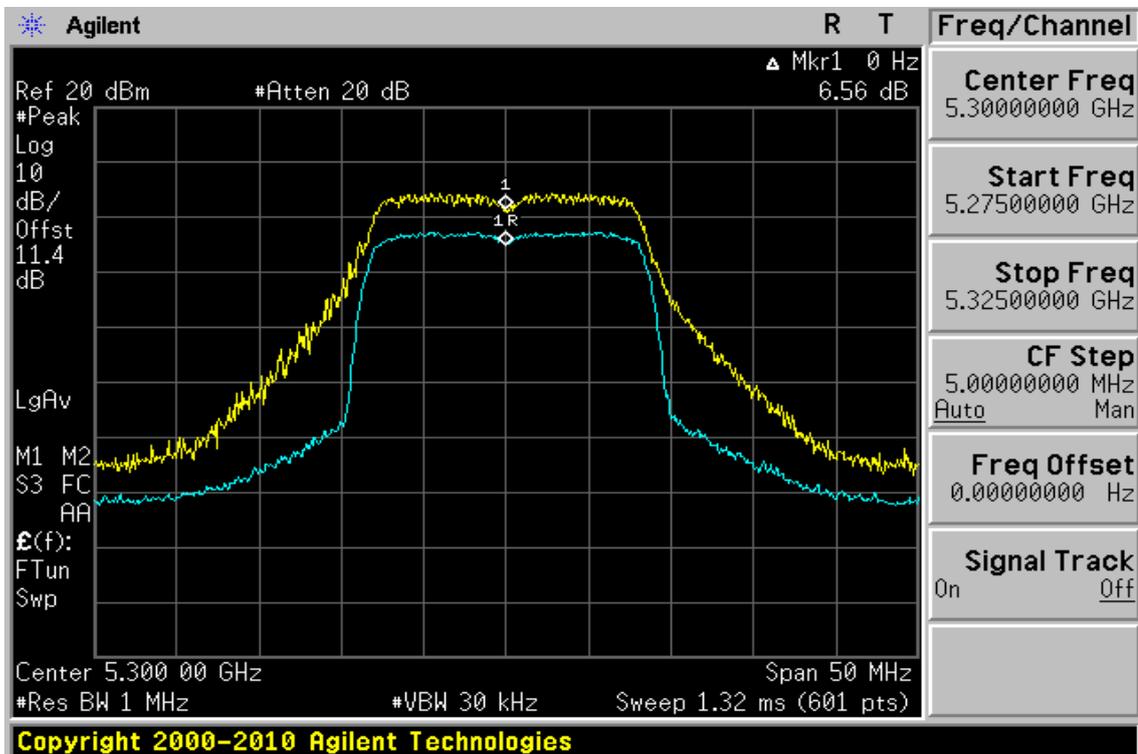
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802.11a, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5260 MHz)



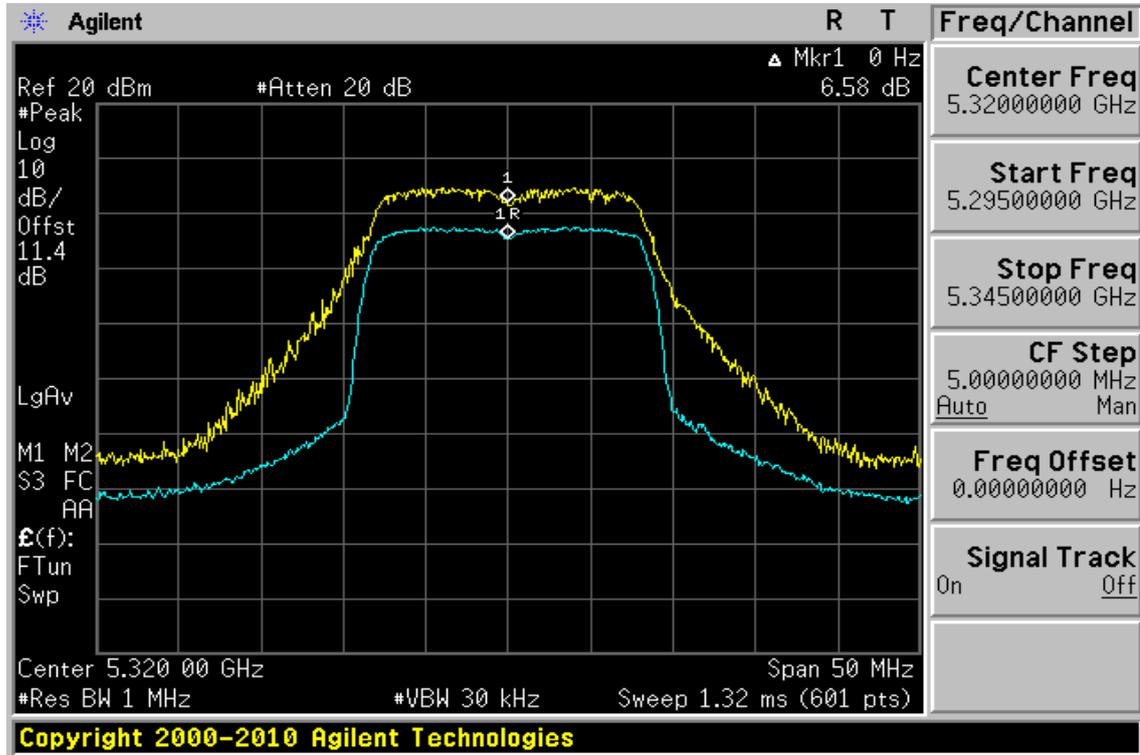
Peak Excursion Data Plot (CH Mid 5300 MHz)



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Peak Excursion Data Plot (CH High 5320 MHz)

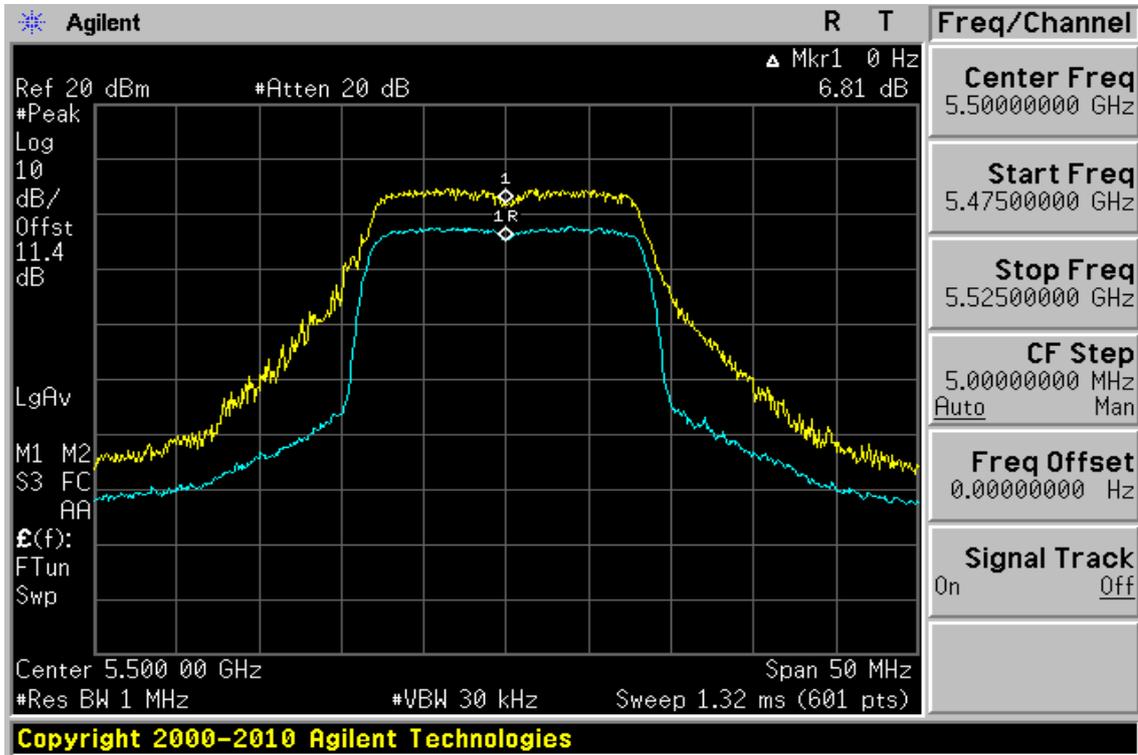


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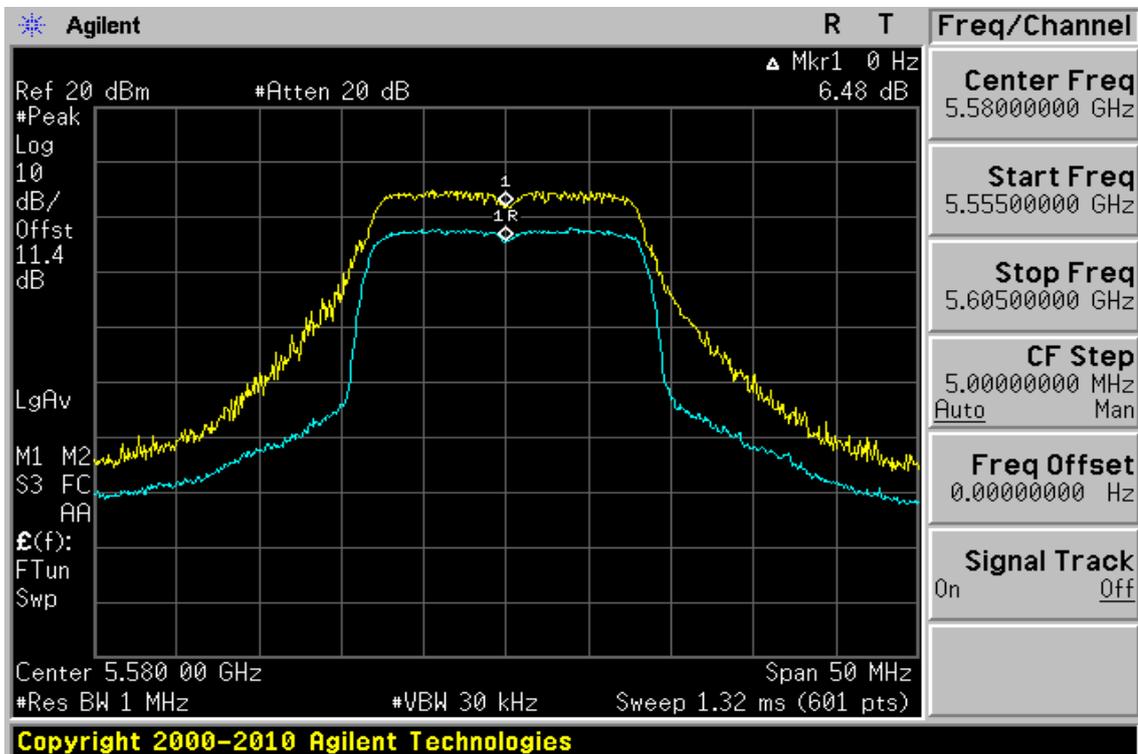
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802.11a, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5500 MHz)



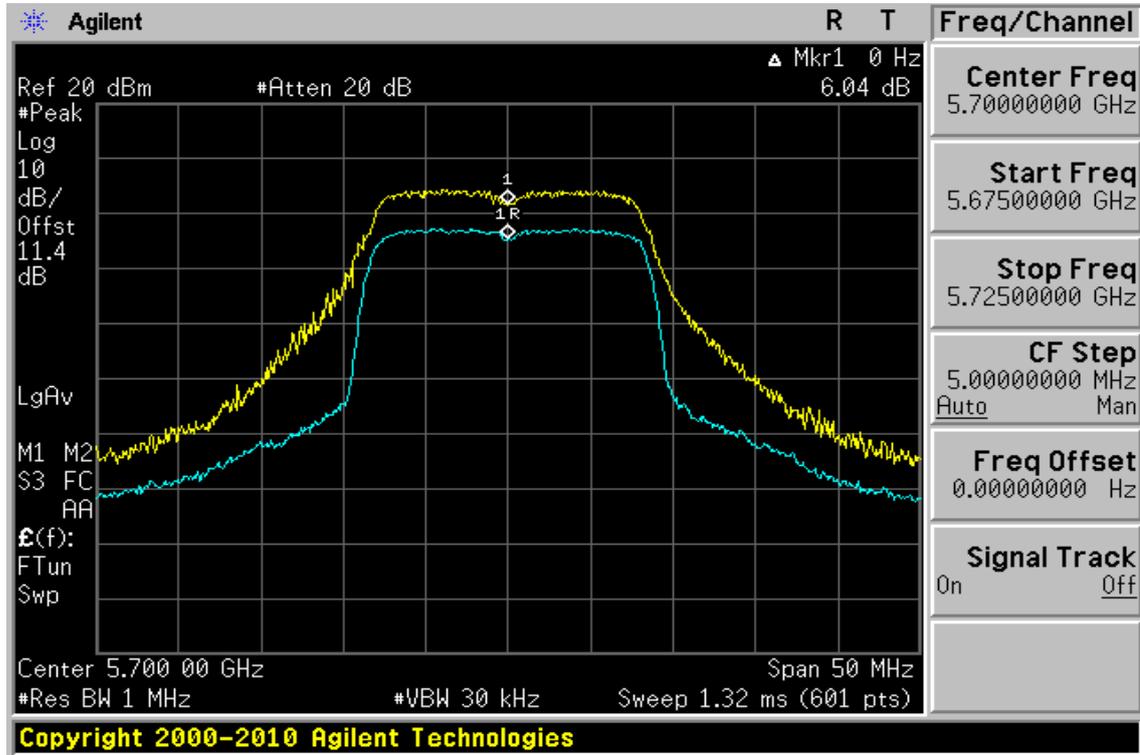
Peak Excursion Data Plot (CH Mid 5580 MHz)



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Peak Excursion Data Plot (CH High 5700 MHz)

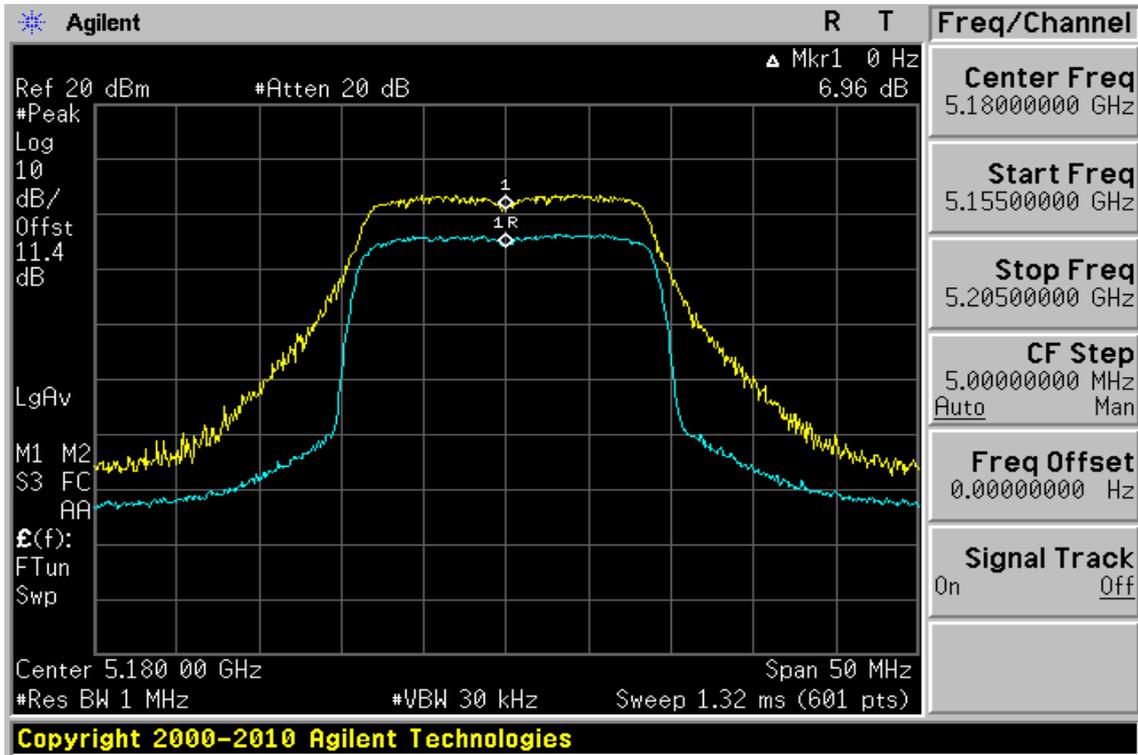


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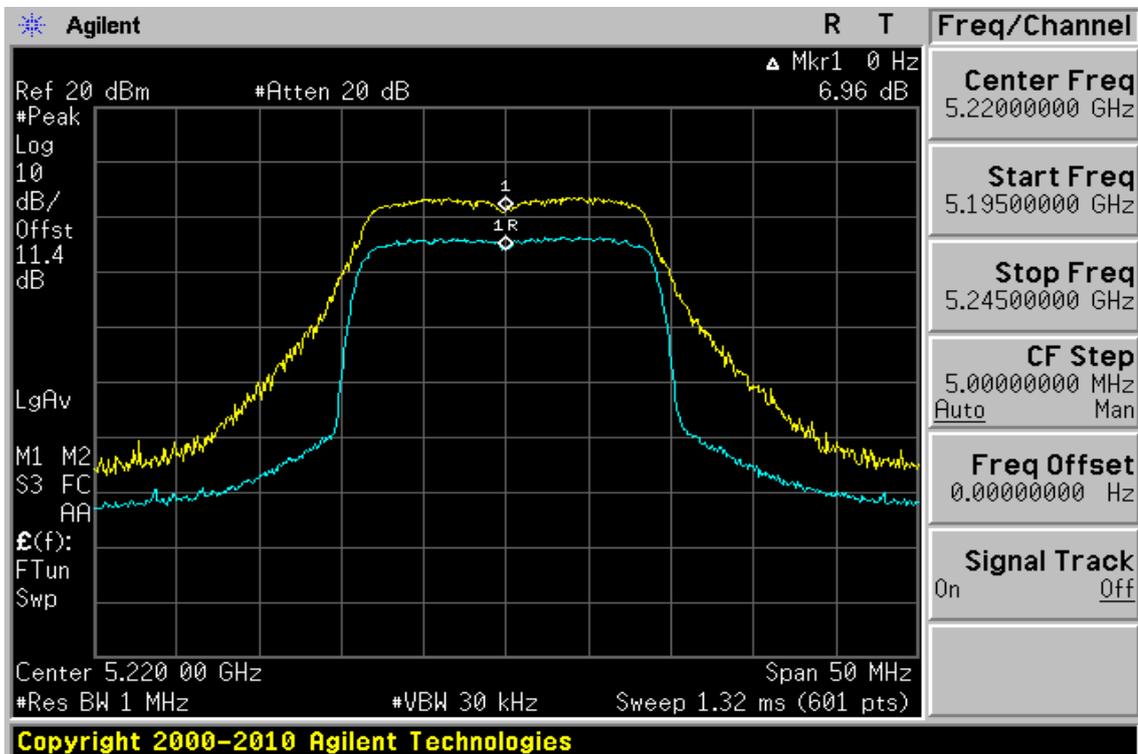
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802.11n HT20, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)



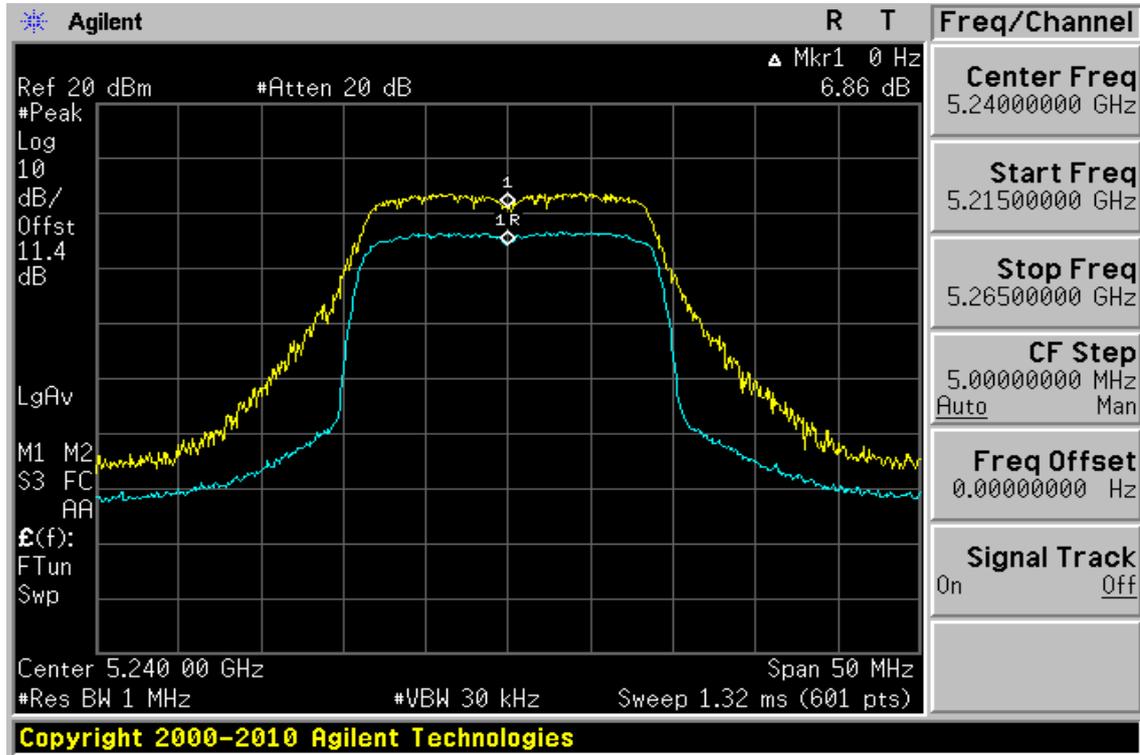
Peak Excursion Data Plot (CH Mid 5220 MHz)



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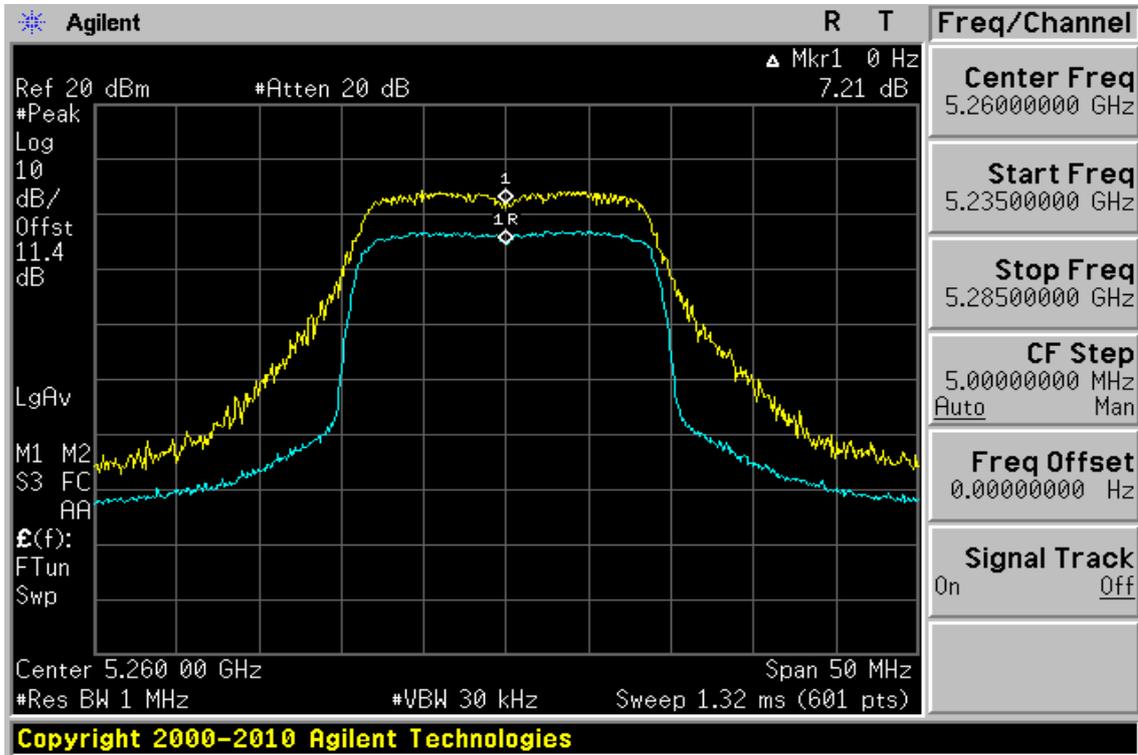
Peak Excursion Data Plot (CH High 5240 MHz)



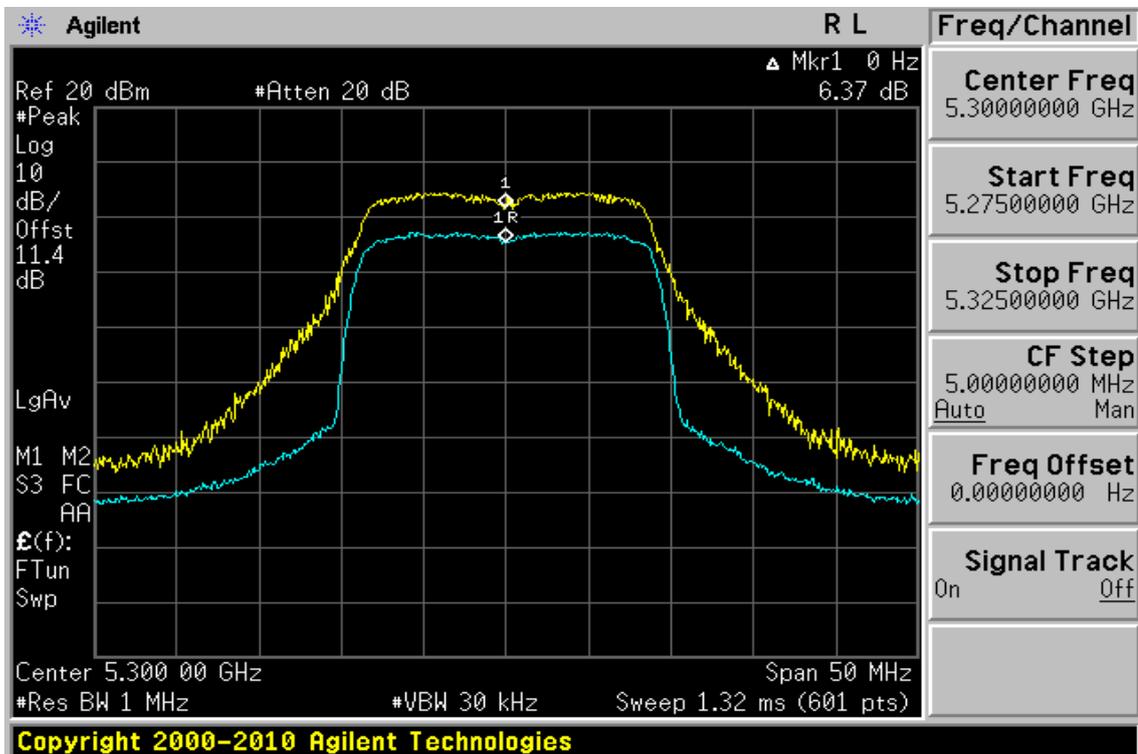
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802.11n HT20, 5250~5350 MHz
Peak Excursion Data Plot (CH Low 5260MHz)



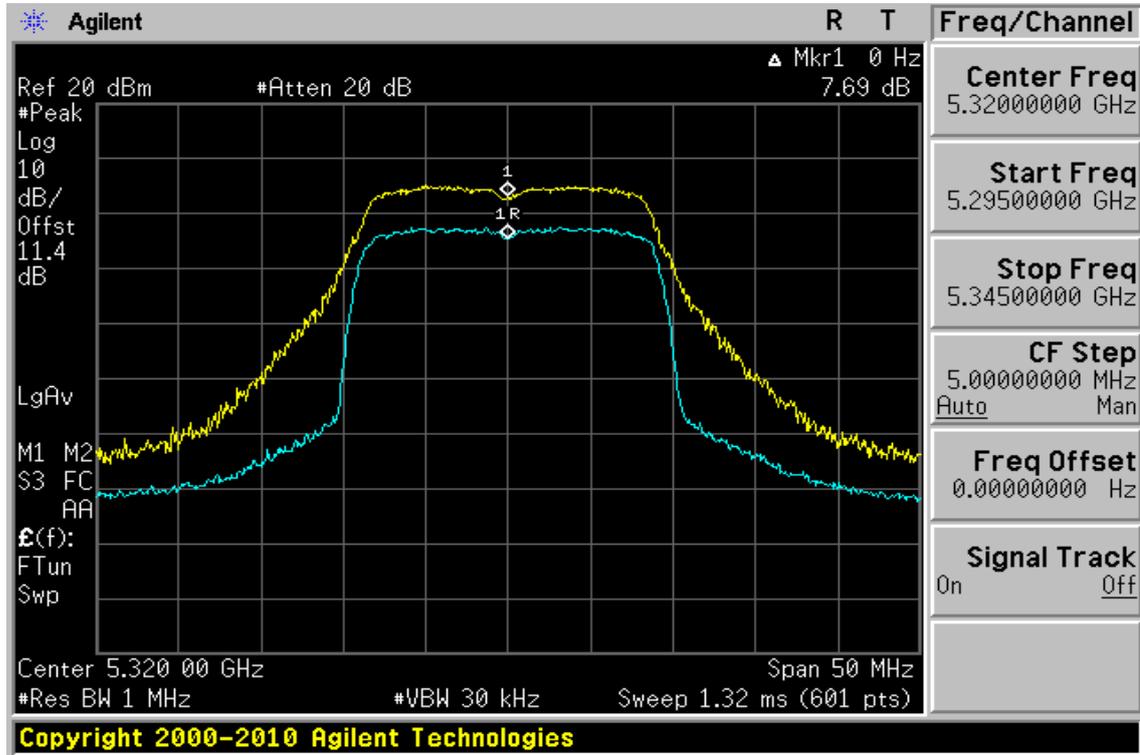
Peak Excursion Data Plot (CH Mid 5300MHz)



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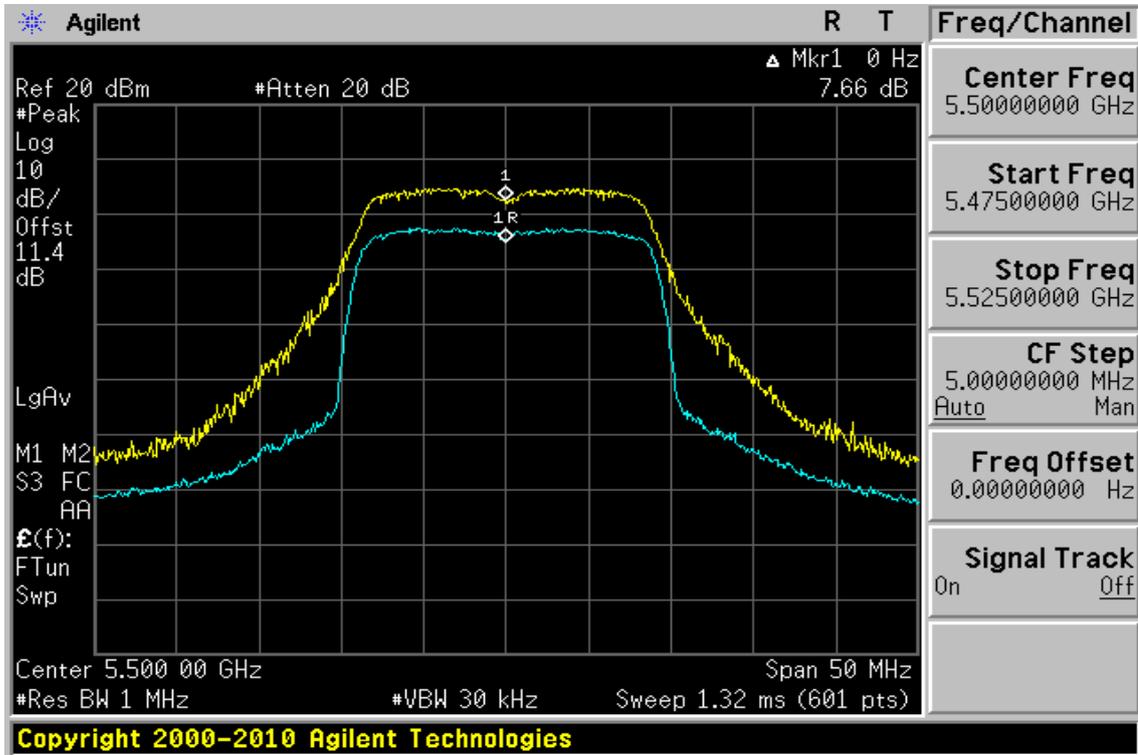
Peak Excursion Data Plot (CH High 5320MHz)



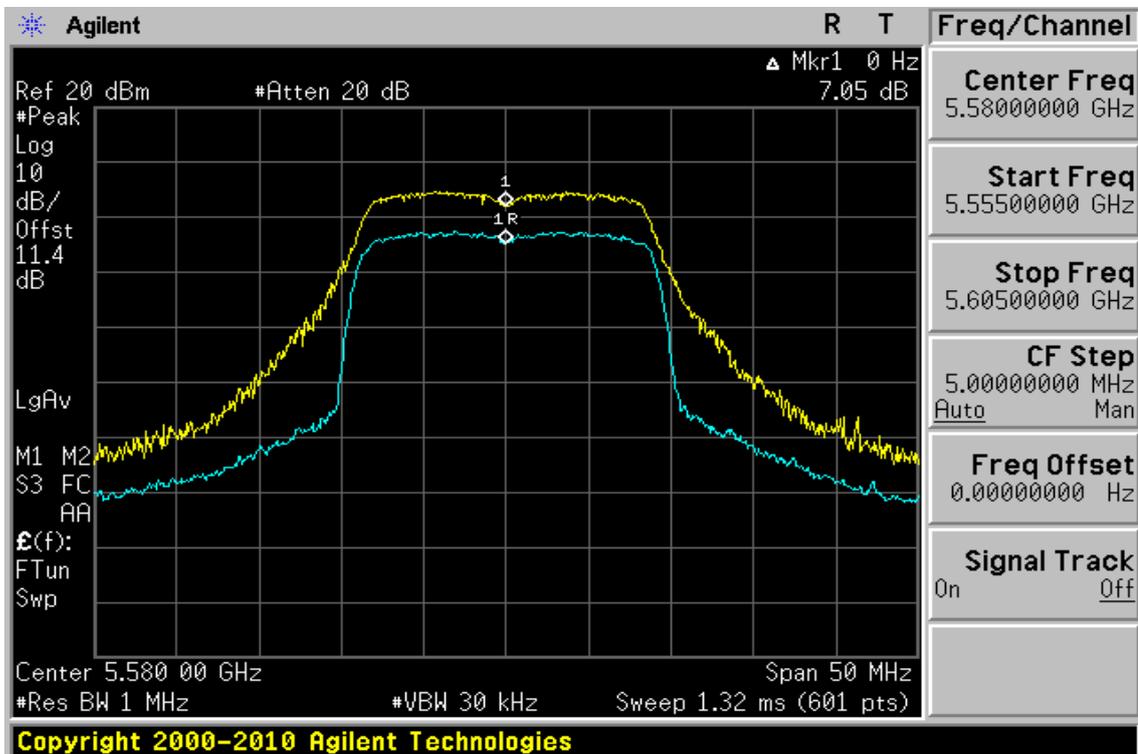
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802.11n HT20, 5470~5725 MHz
Peak Excursion Data Plot (CH Low 5500 MHz)



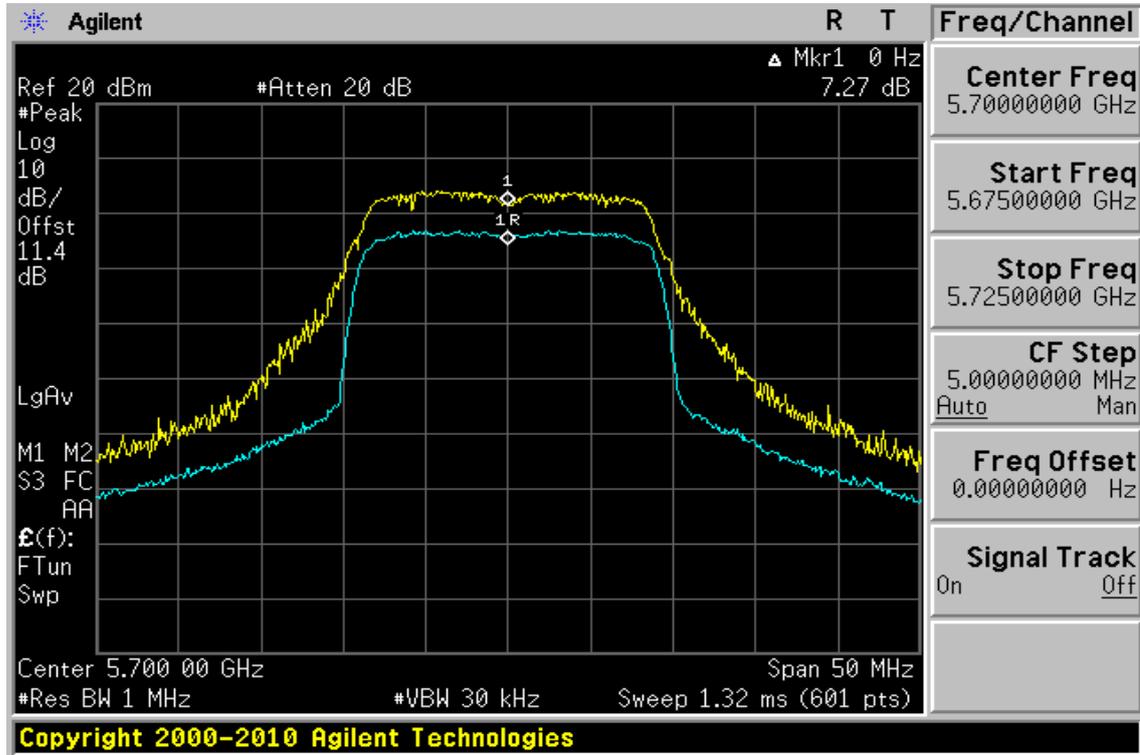
Peak Excursion Data Plot (CH Mid 5580 MHz)



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Peak Excursion Data Plot (CH High 5700 MHz)

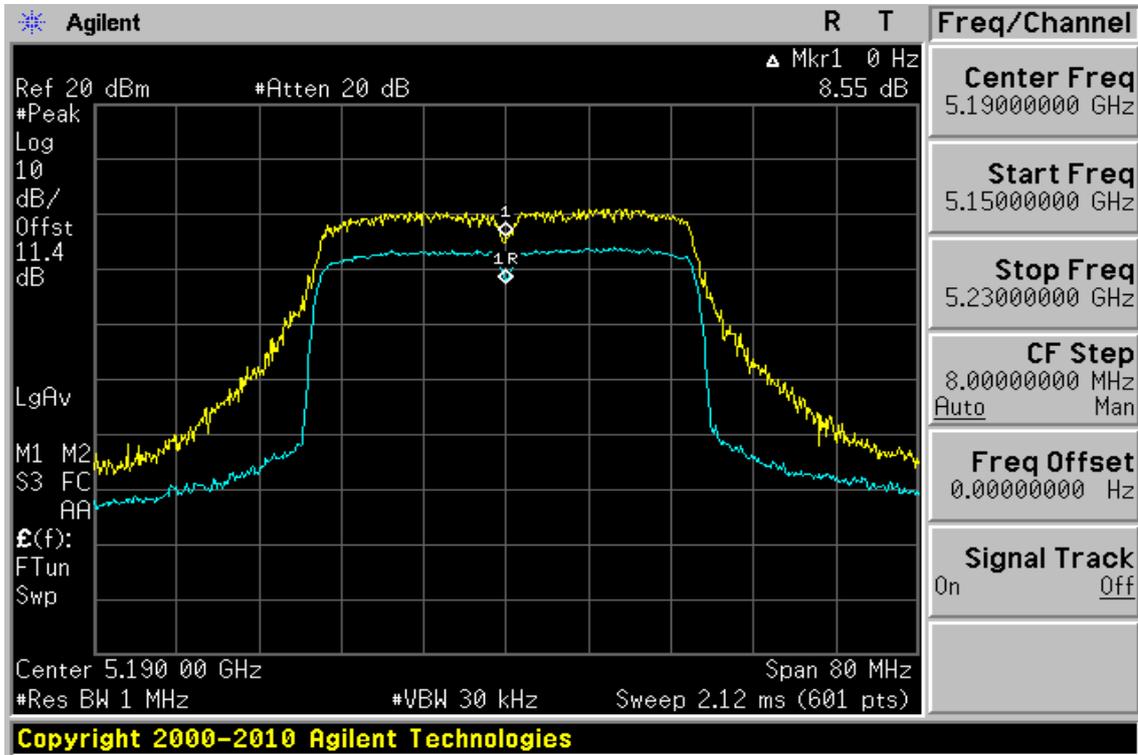


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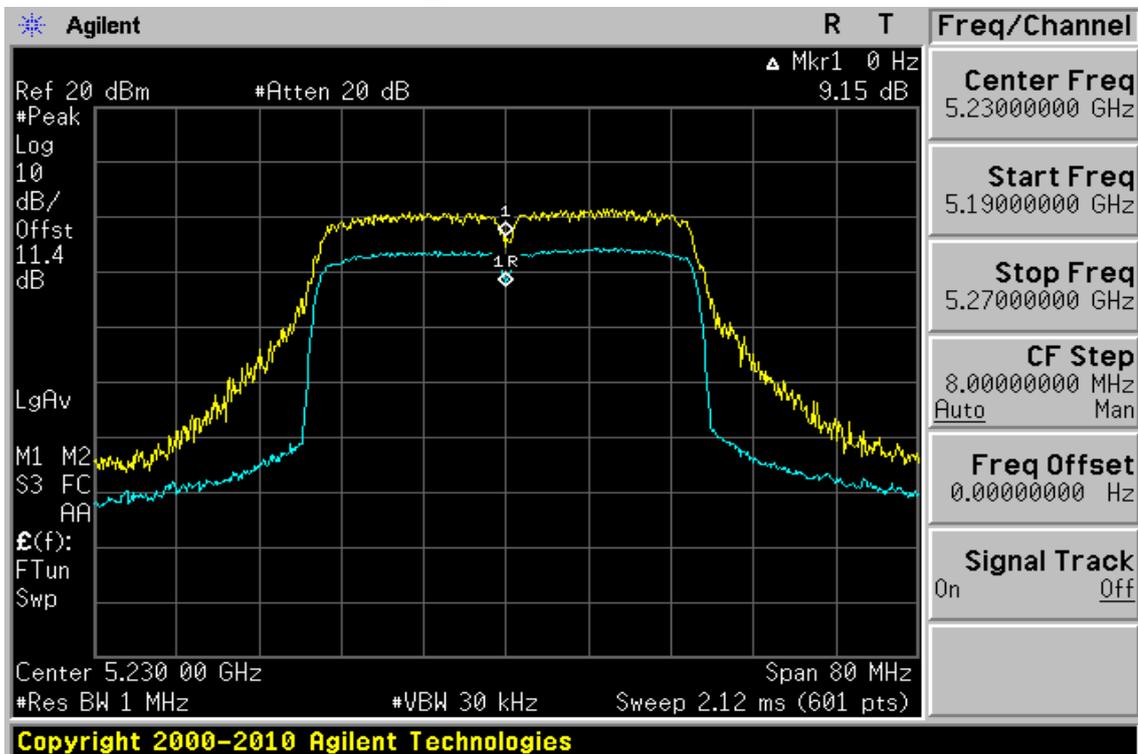
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802.11n HT40, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5190 MHz)



Peak Excursion Data Plot (CH High 5230 MHz)

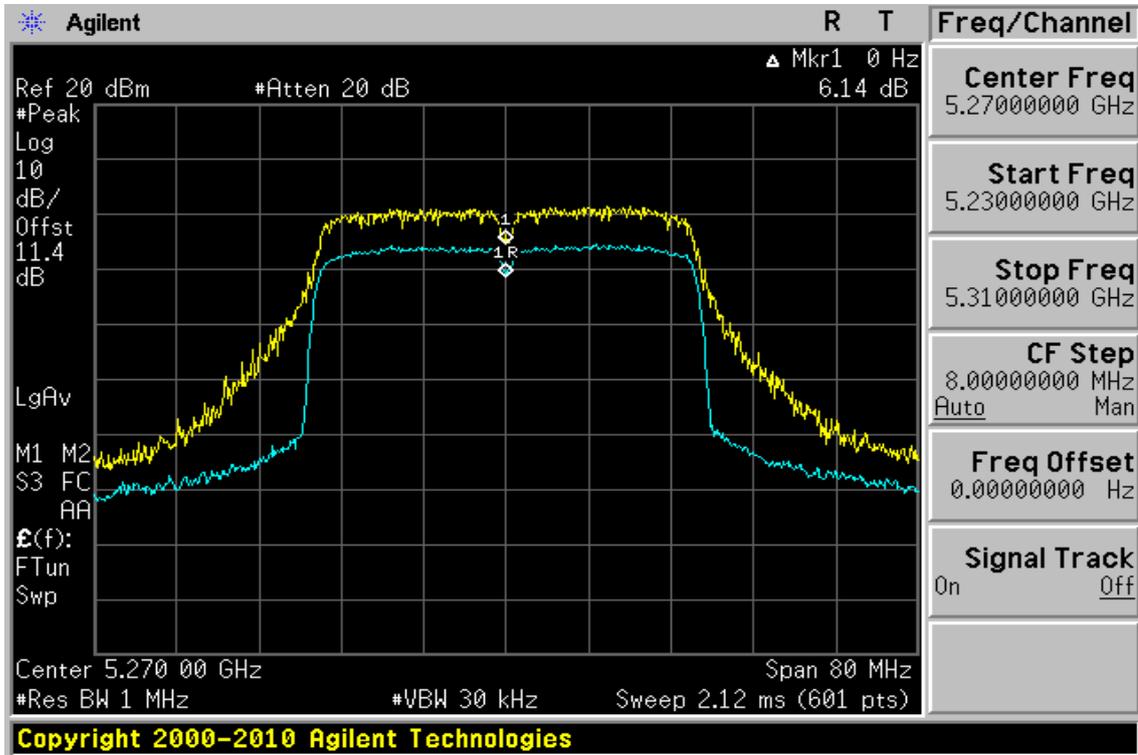


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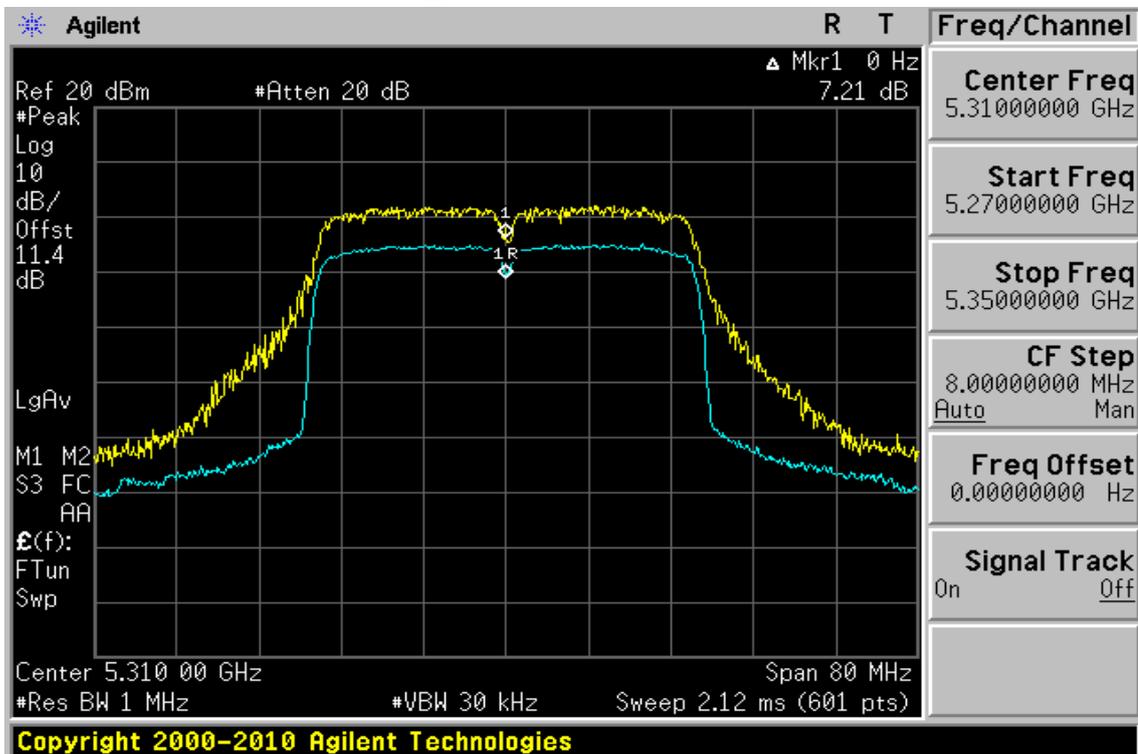
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802.11n HT20, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5270 MHz)



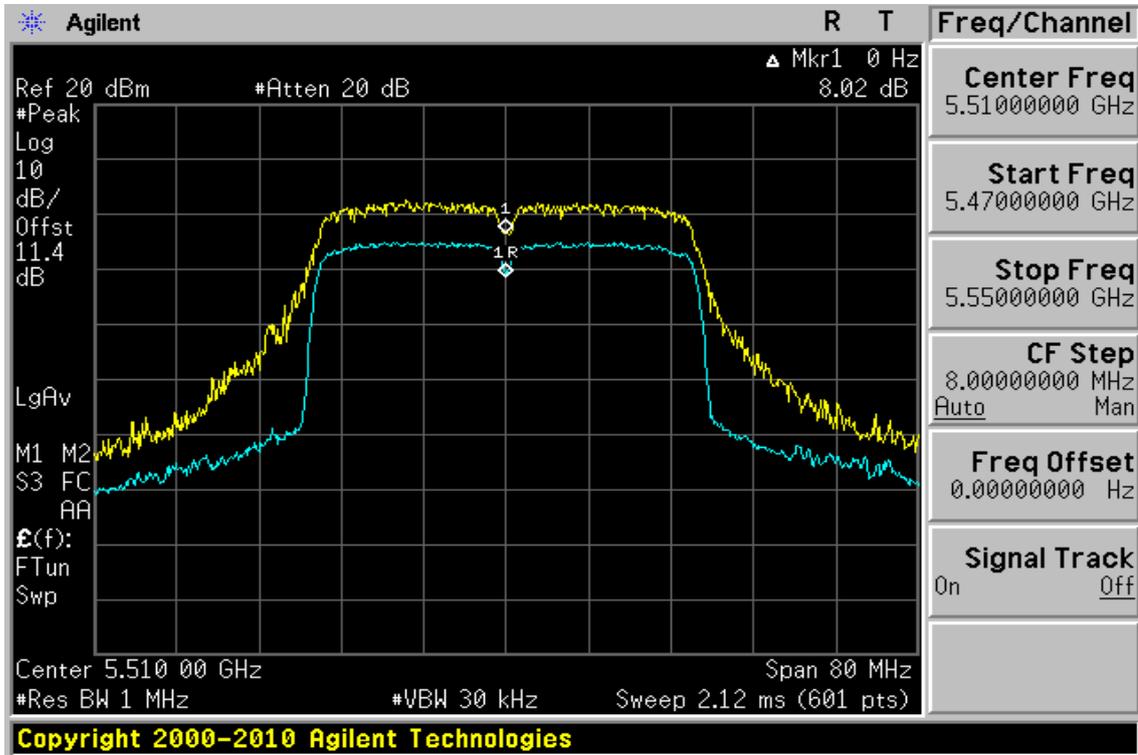
Peak Excursion Data Plot (CH High 5310MHz)



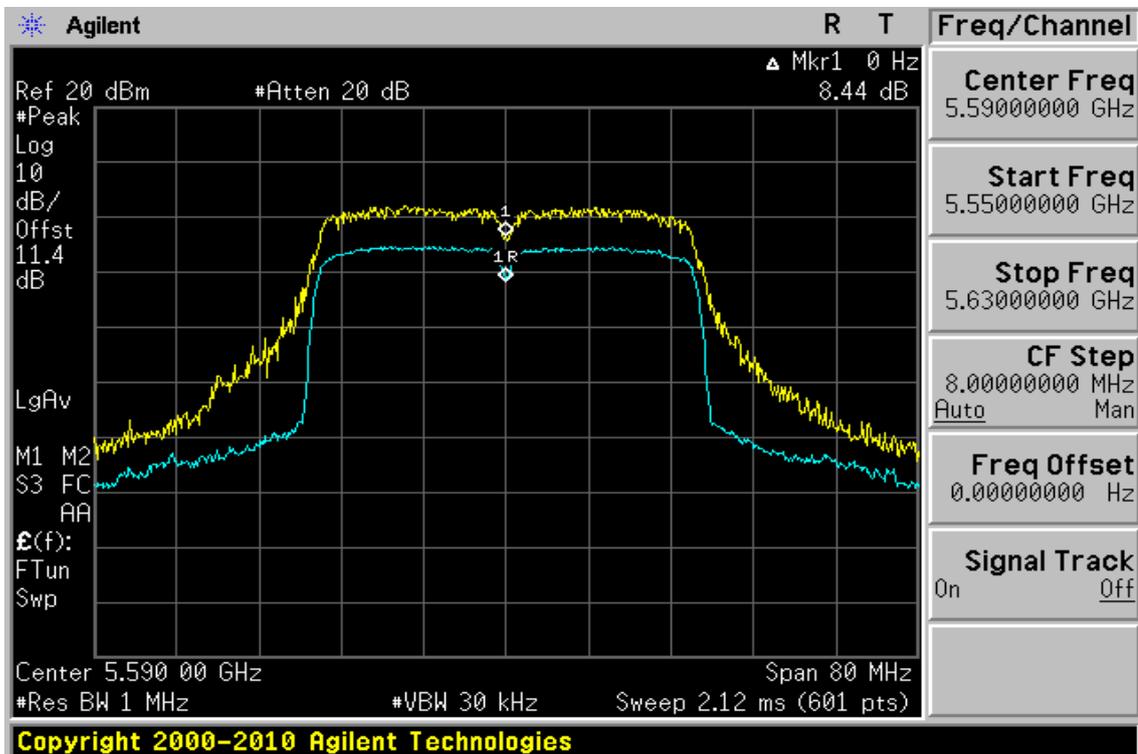
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802.11n HT20, 5470~5725 MHz
Peak Excursion Data Plot (CH Low 5510MHz)



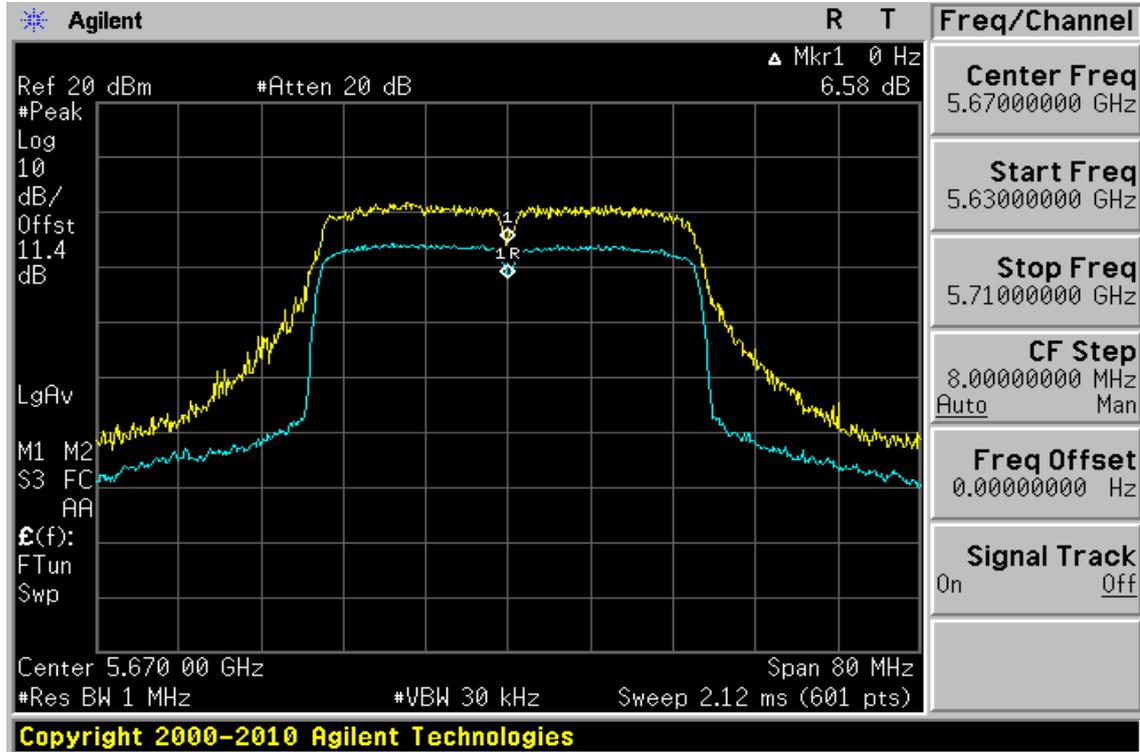
Peak Excursion Data Plot (CH Mid 5590MHz)



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Peak Excursion Data Plot (CH High 5670 MHz)



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11. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

11.1 Standard Applicable

According to §15.407(b),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
- (5) The above emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (7) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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11.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Set Spectrum RBW=1MHz, VBW = 1MHz for peak measurement and 10Hz for average measurement.
4. Set Spectrum at lower/upper band edge and the restricted band adjacent to the lower/upper edge of the authorized band, with the transmitter set to the lowest/highest channel.
5. Set Spectrum over the 30MHz to 40GHz range with the transmitter set to the lowest, middle, and highest channels.

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 100K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 6G, 6G to 13G, 13G to 18G, 18G to 26.5G and 26.5G to 40GHz
4. Via Software, combine 6 spans of frequency range into one plot

Conducted RF measurements of the transmitter output were made at the band edges and the adjacent restricted bands.

Also, conducted RF measurements of the transmitter output over the 30 MHz to 40 GHz band were made in order to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

11.3 Measurement Equipment Used:

Refer to section 7.3 for details.

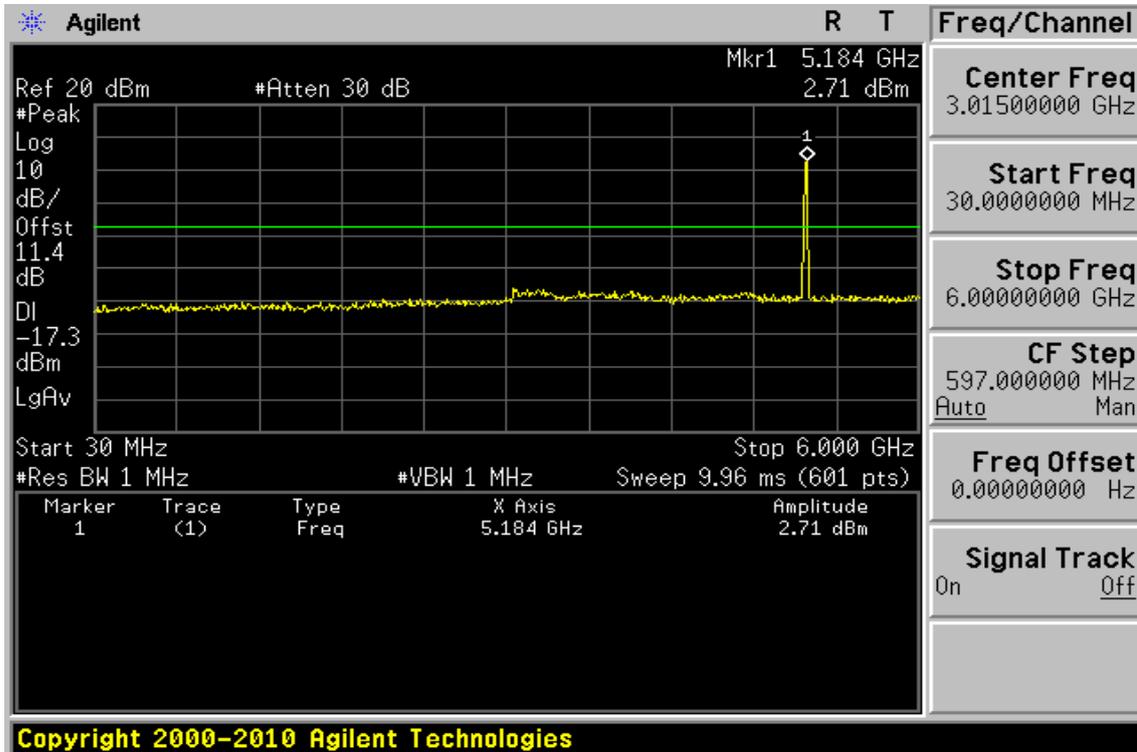
11.4 Measurement Result:

Refer to next page for plots.

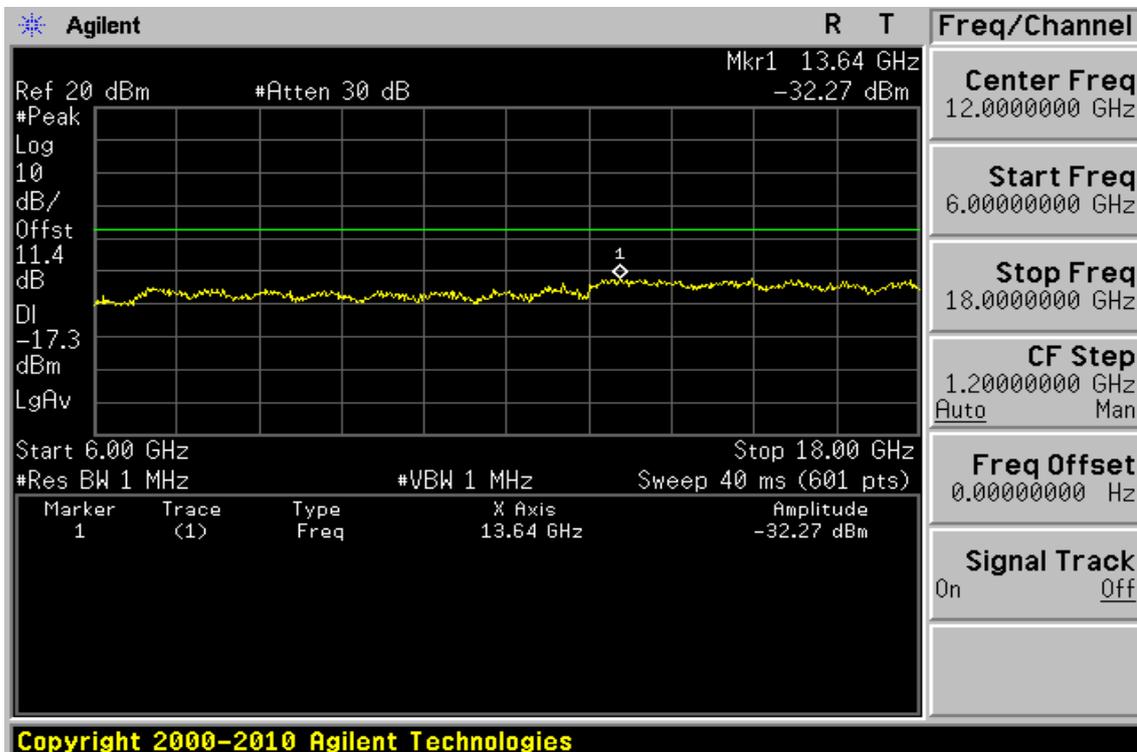
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802.11a, 5150~5250 MHz
Ch Low 30MHz – 6GHz (5180 MHz)



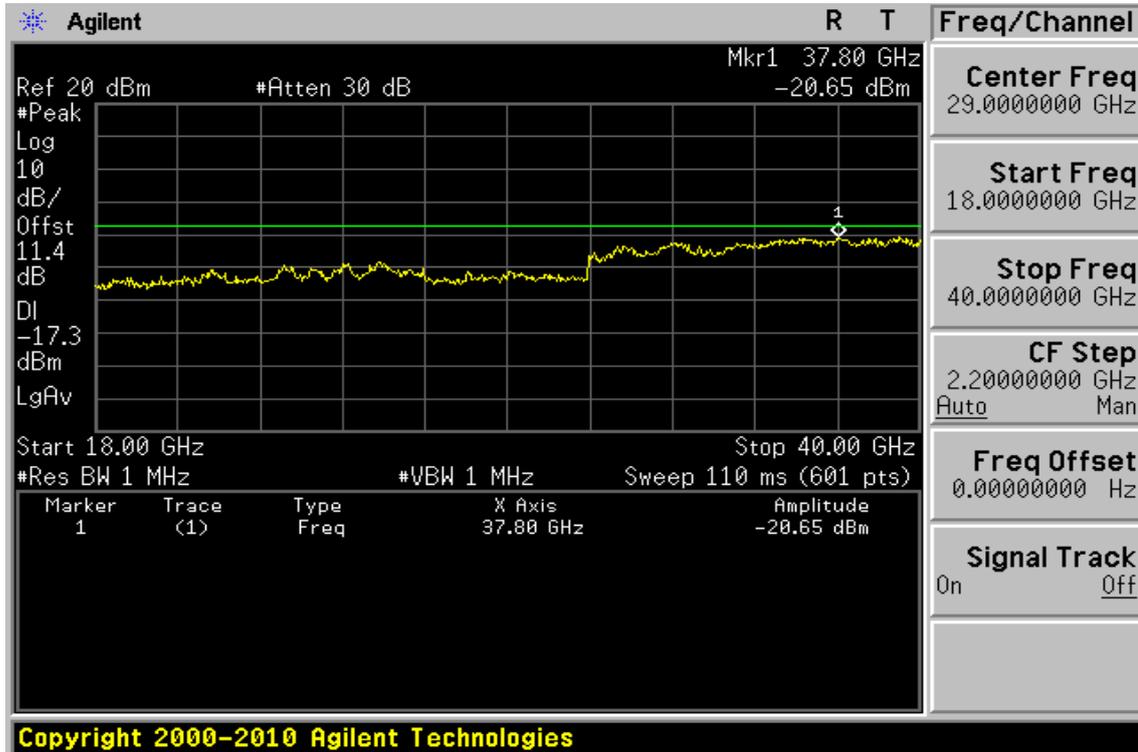
Ch Low 6GHz – 18GHz



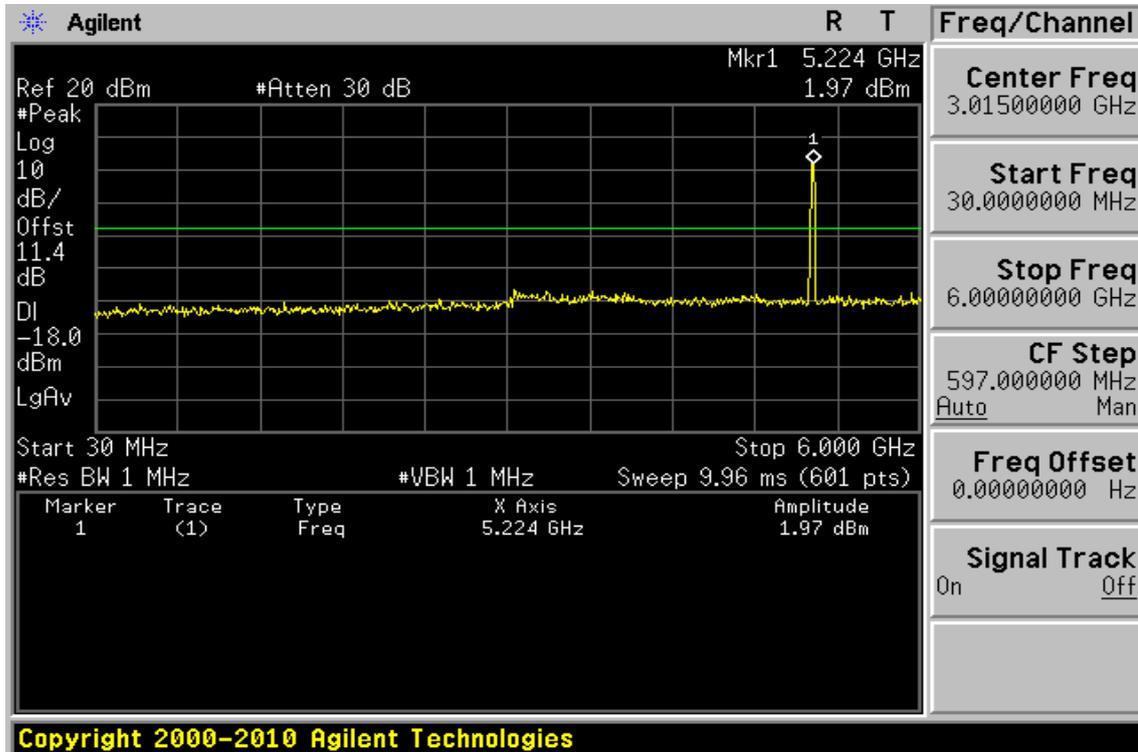
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Ch Low 18GHz – 40GHz



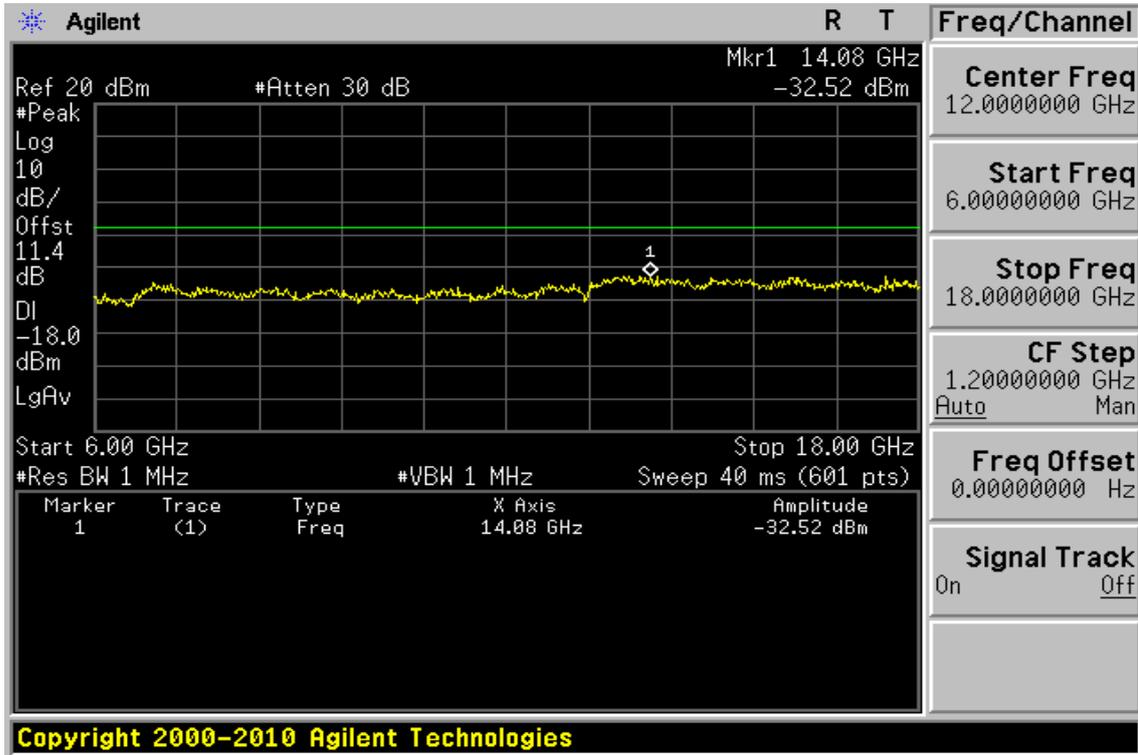
Ch Mid 30MHz – 6GHz (5220 MHz)



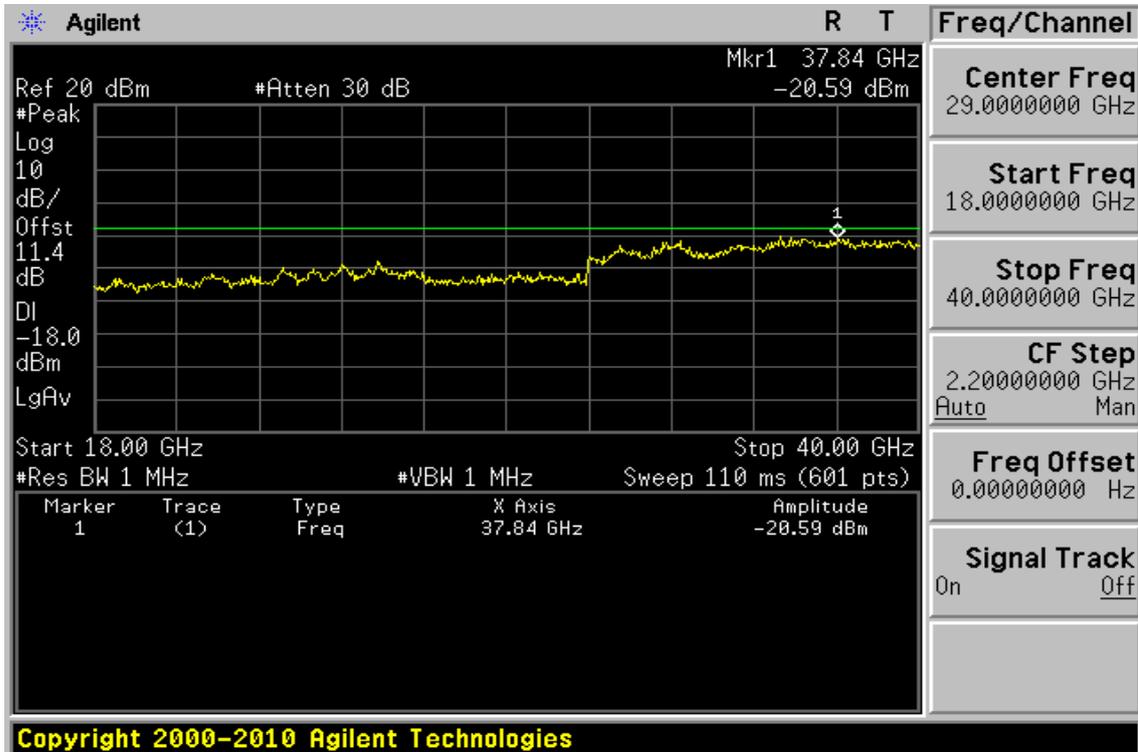
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Ch Mid 6GHz – 18GHz



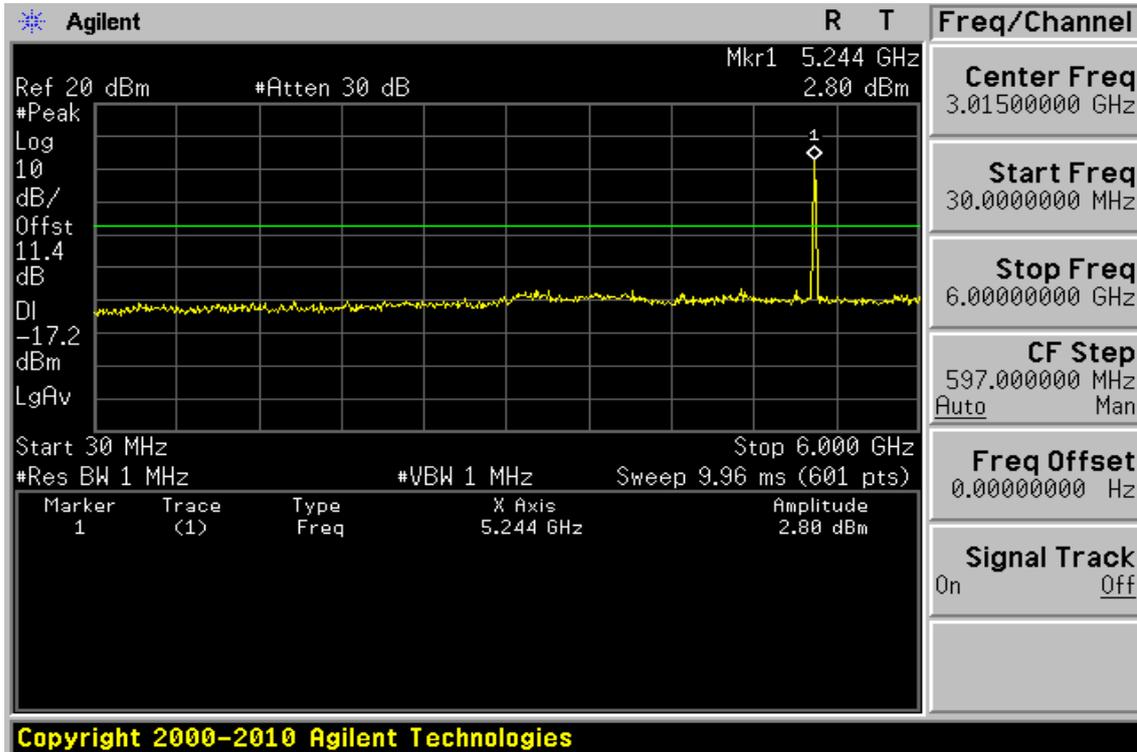
Ch Mid 18GHz – 40GHz



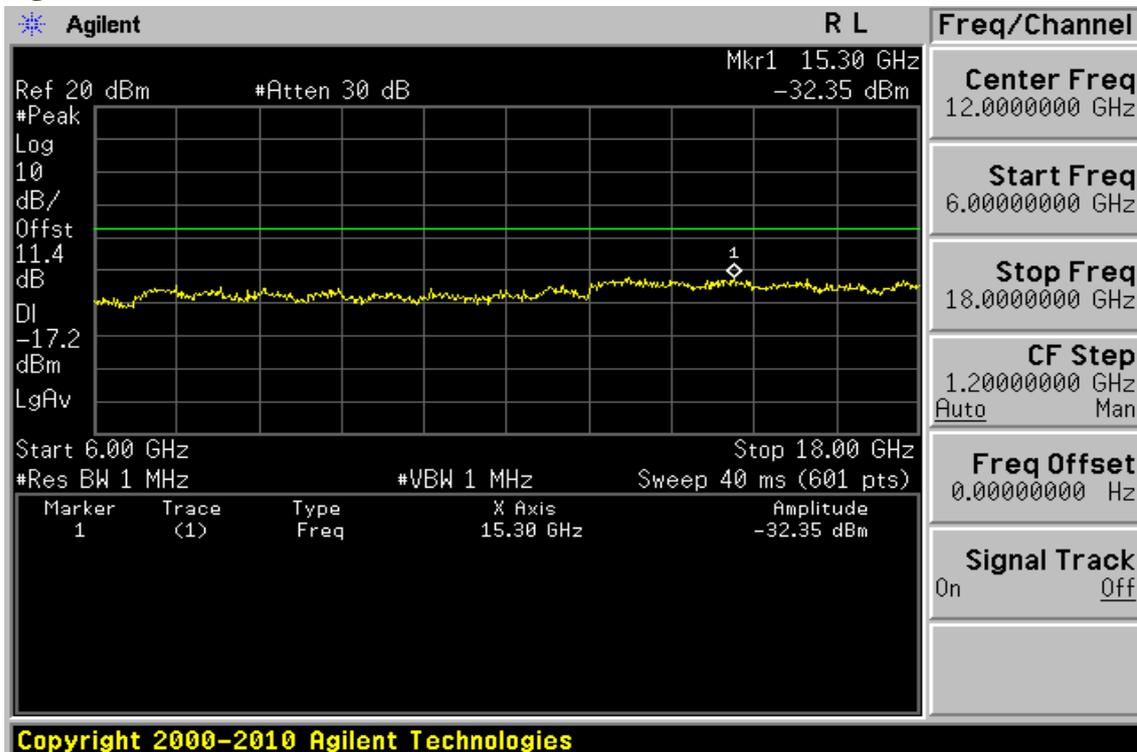
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Ch High 30MHz – 6GHz (5240 MHz)



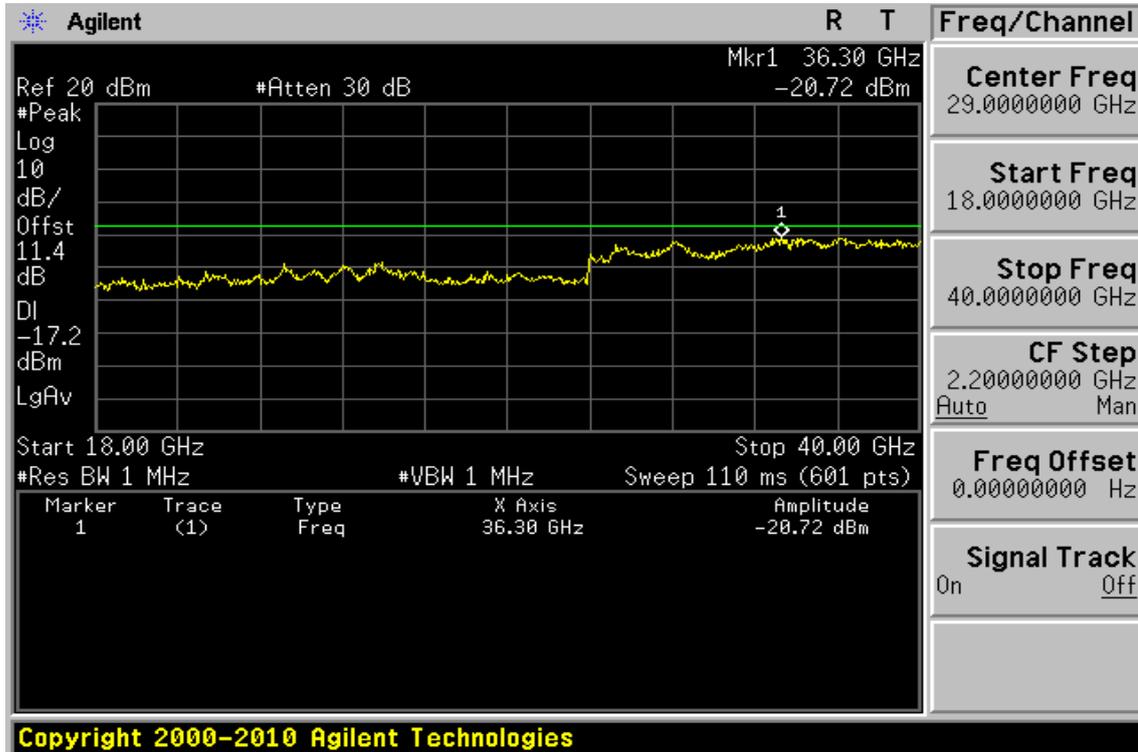
Ch High 6GHz – 18GHz



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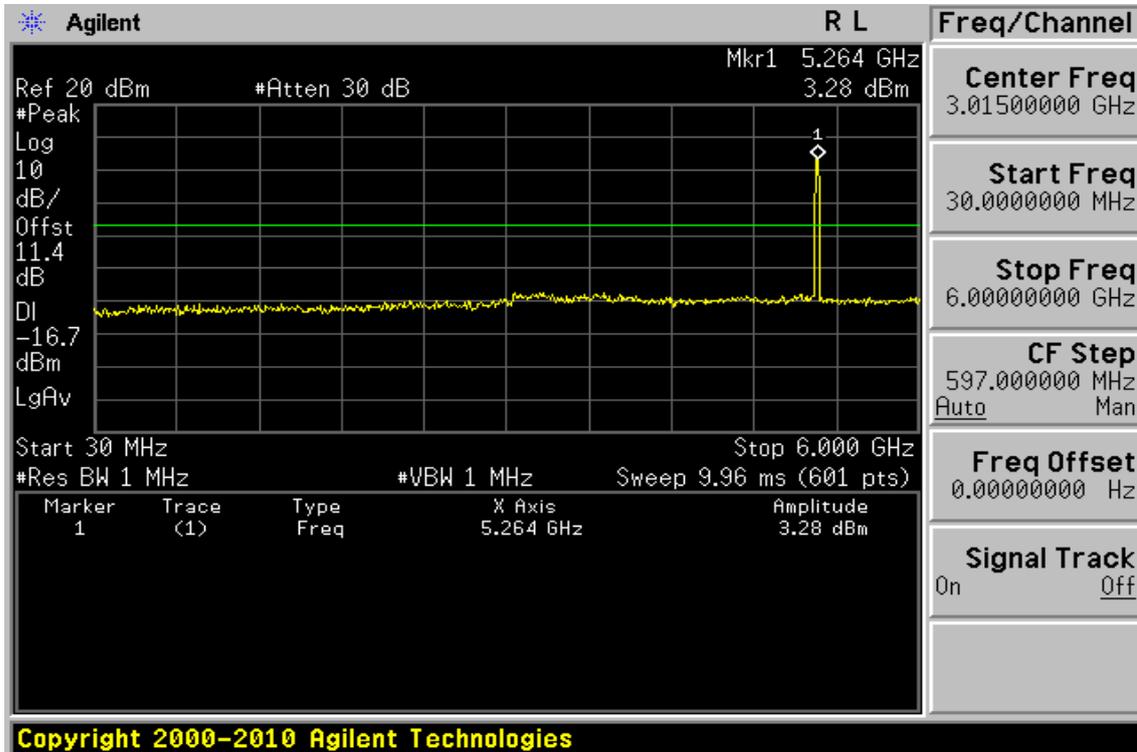
Ch High 18GHz – 40GHz



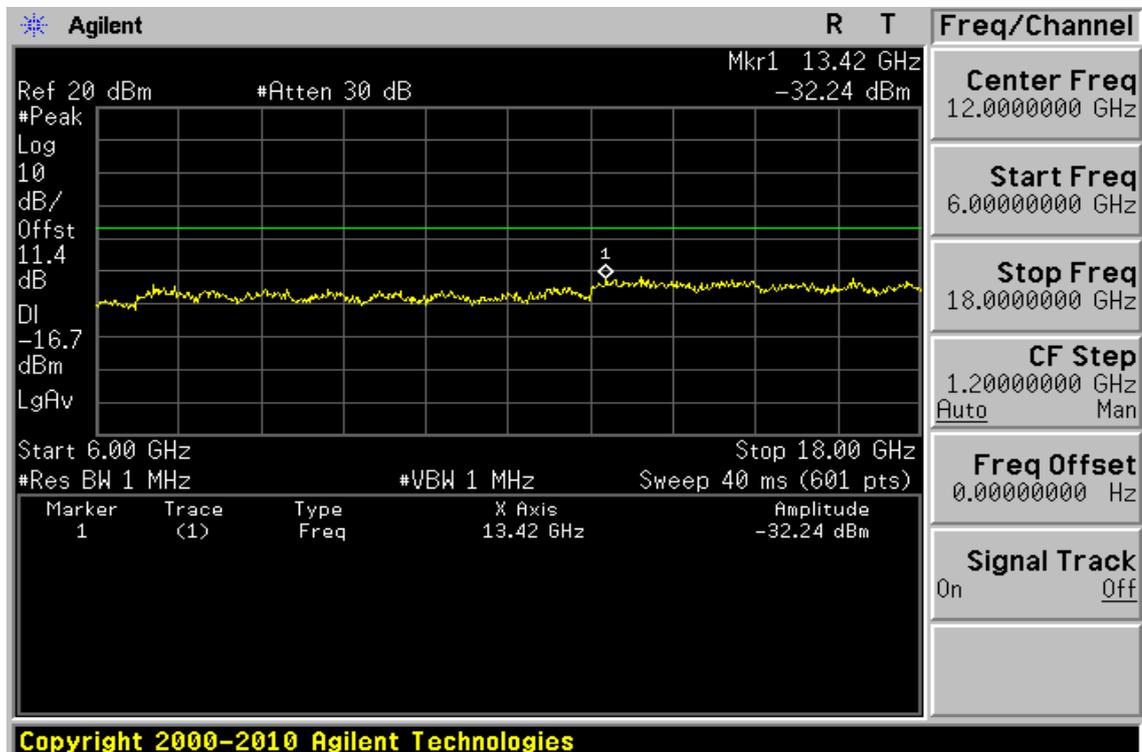
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802.11a, 5250~5350 MHz
Ch Low 30MHz – 6GHz (5260 MHz)



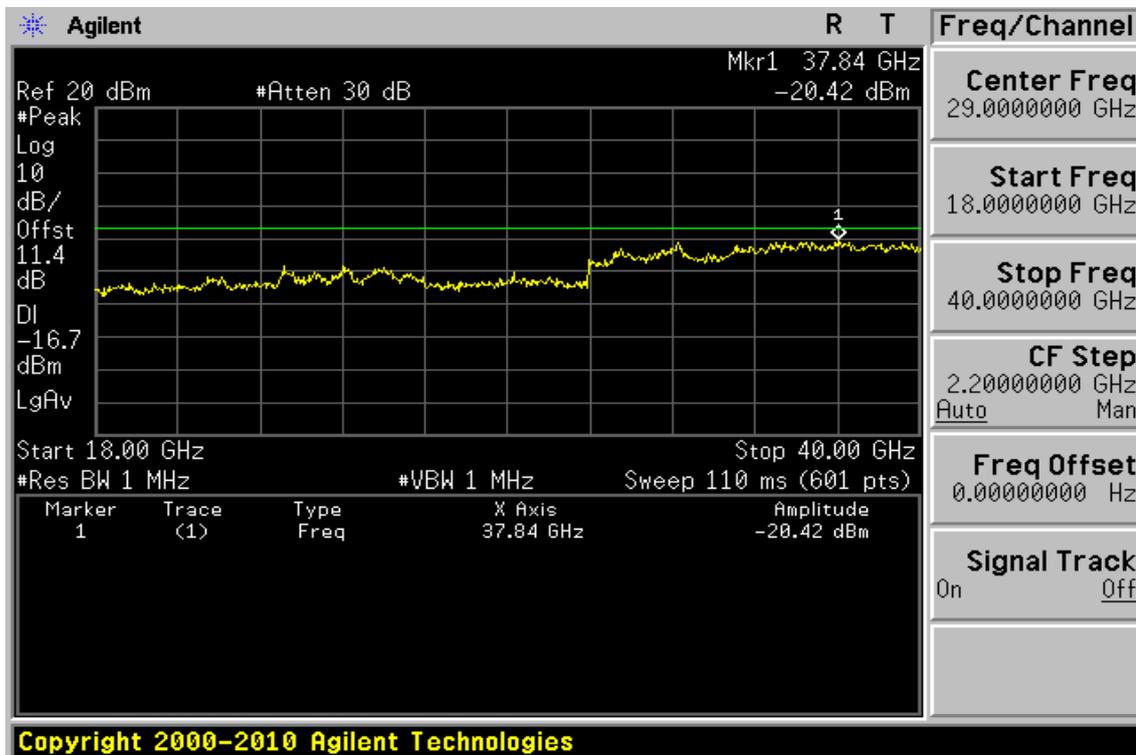
Ch Low 6GHz – 18GHz



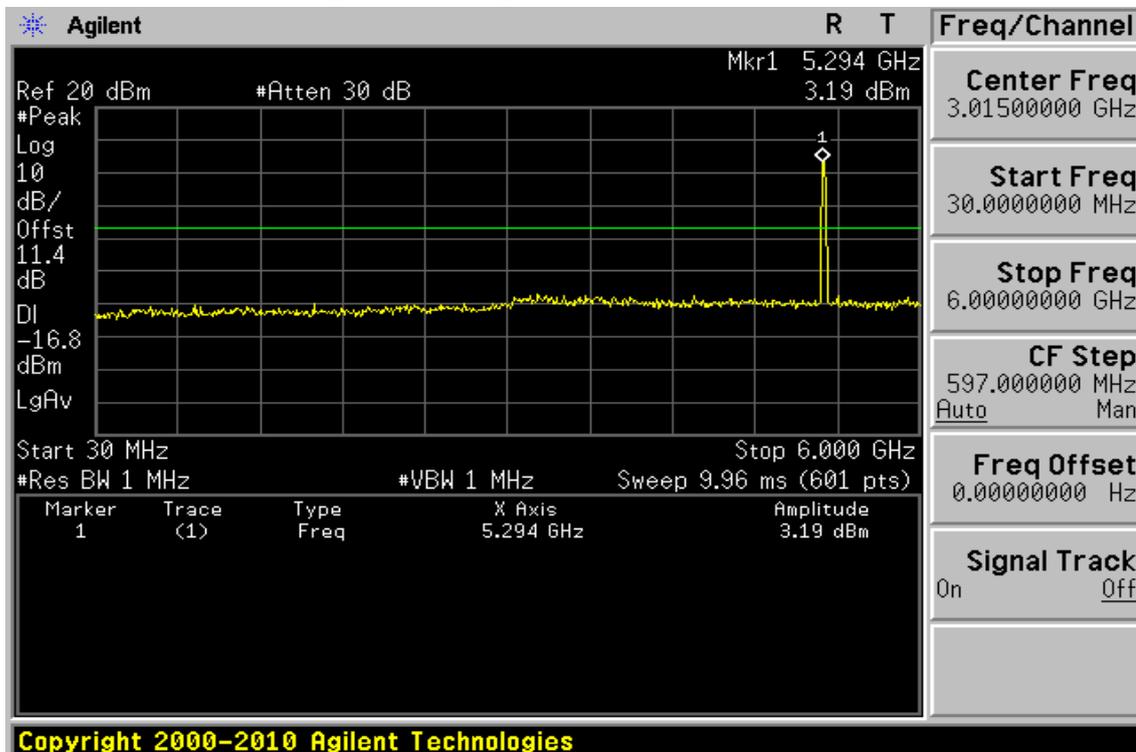
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Ch Low 18GHz – 40GHz



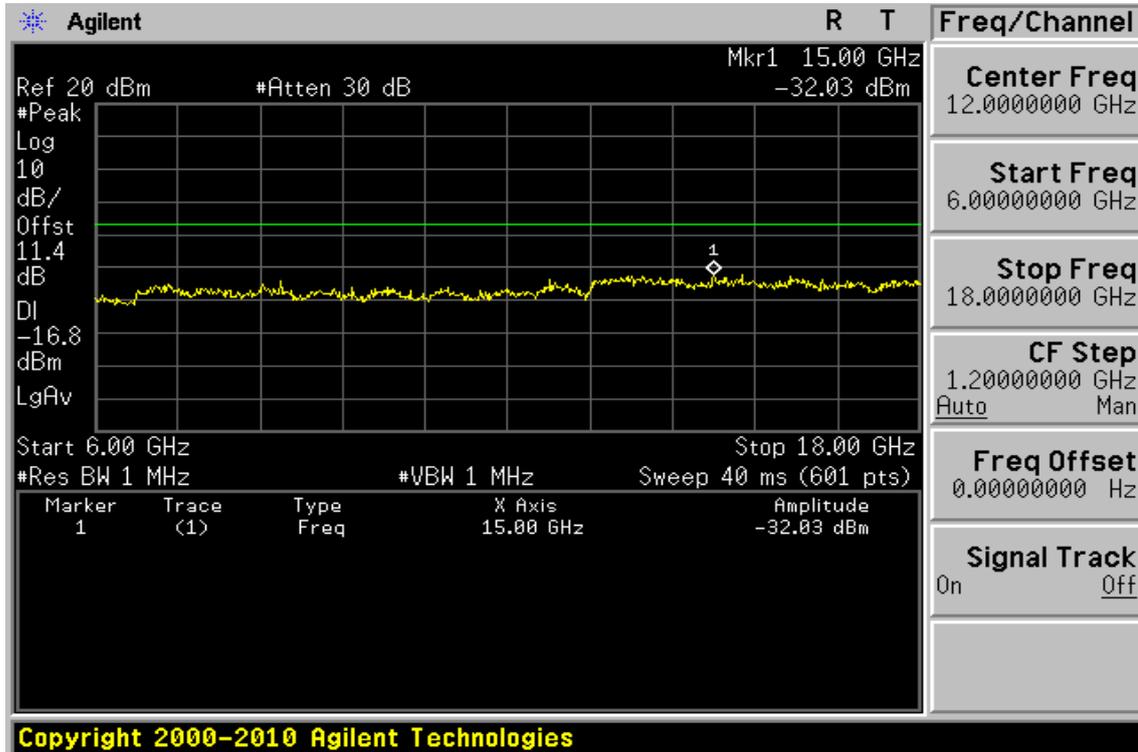
Ch Mid 30MHz – 6GHz (5300 MHz)



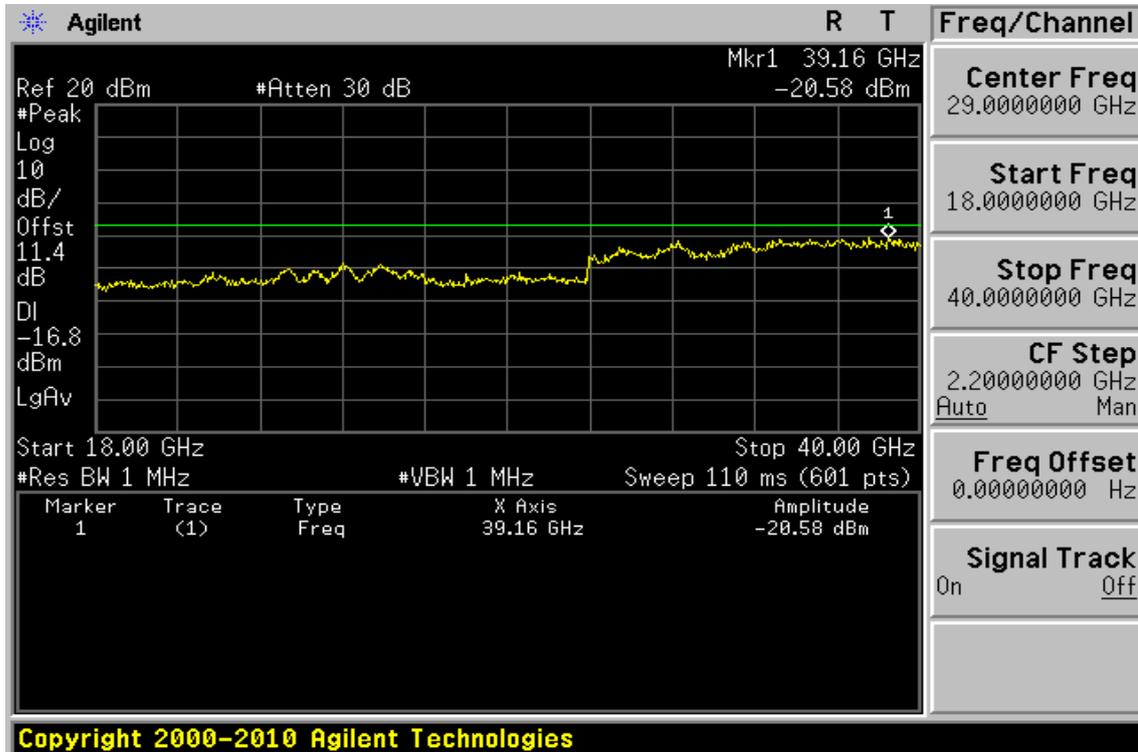
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Ch Mid 6GHz – 18GHz



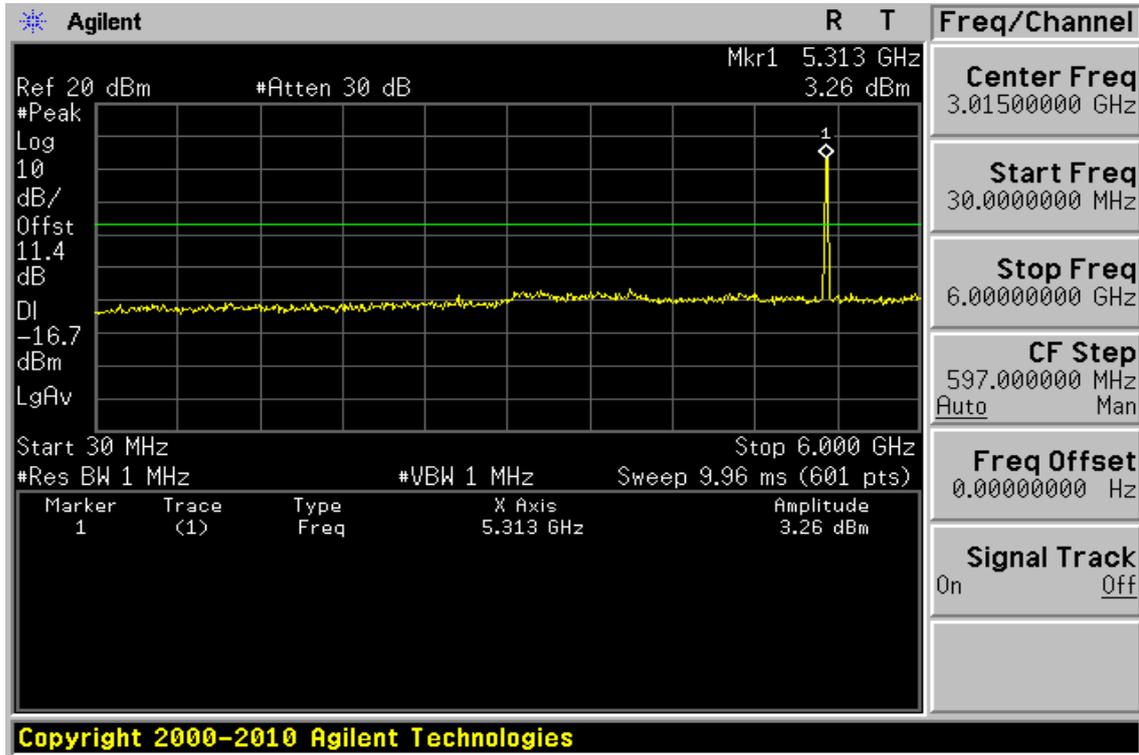
Ch Mid 18GHz – 40GHz



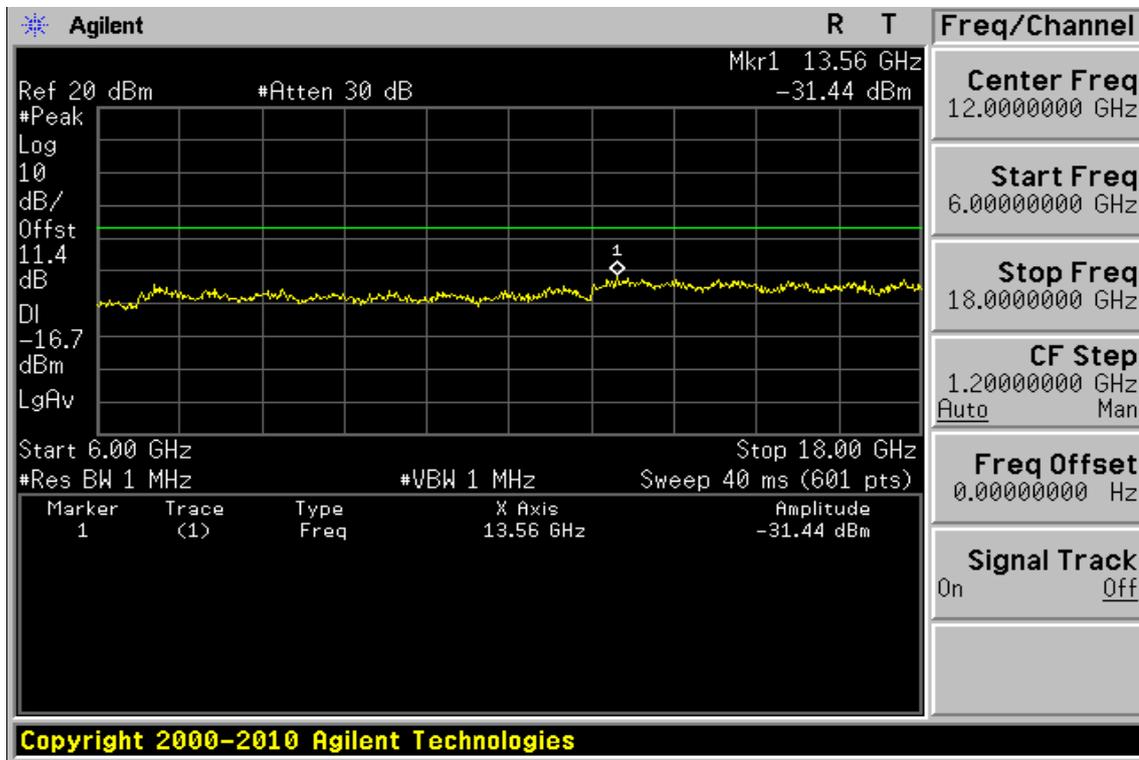
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Ch High 30MHz – 6GHz (5320 MHz)



Ch High 6GHz – 18GHz

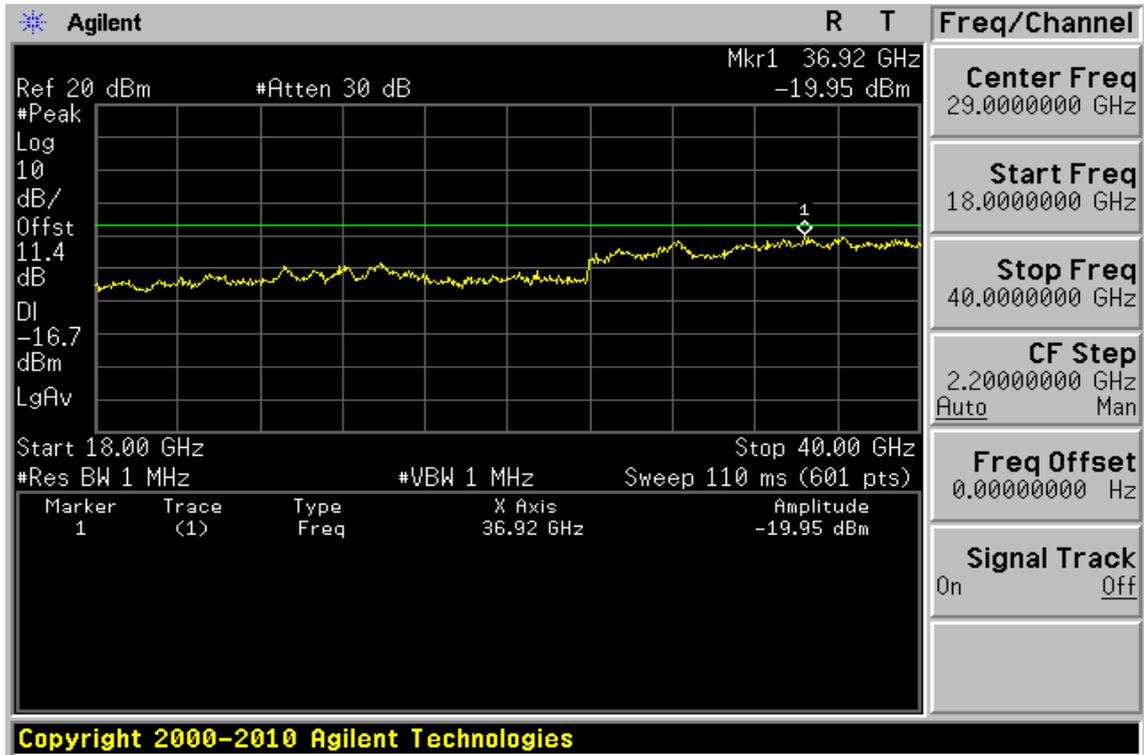


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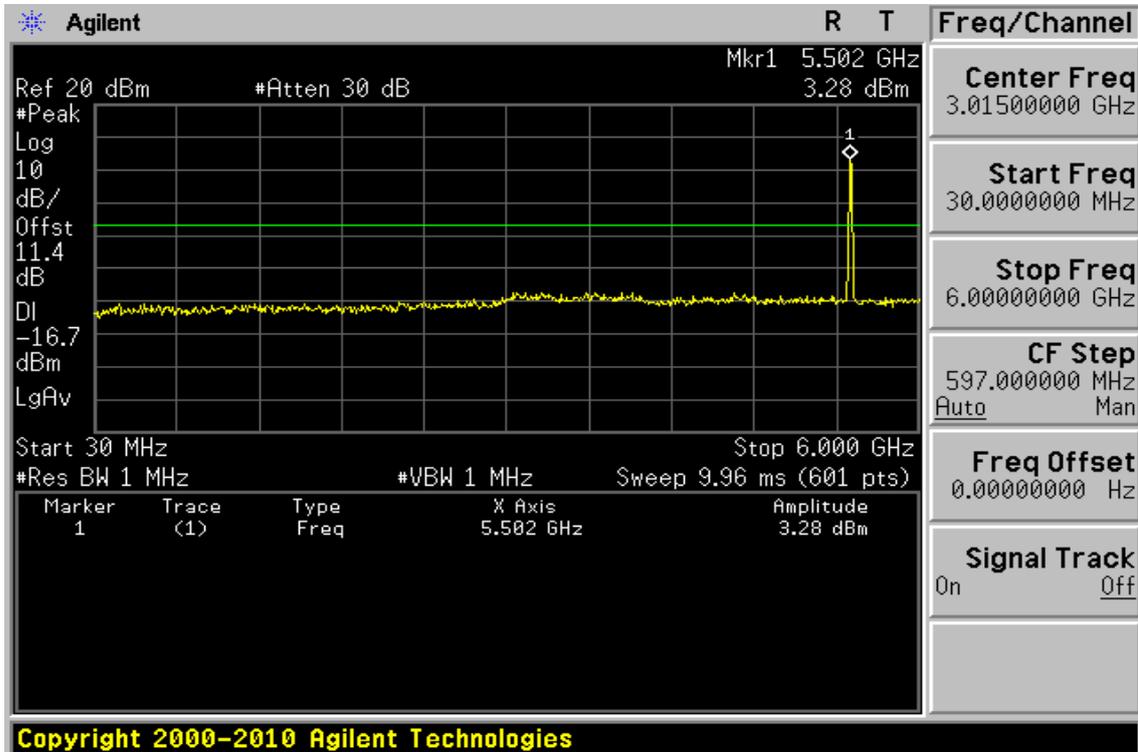
Ch High 18GHz – 40GHz



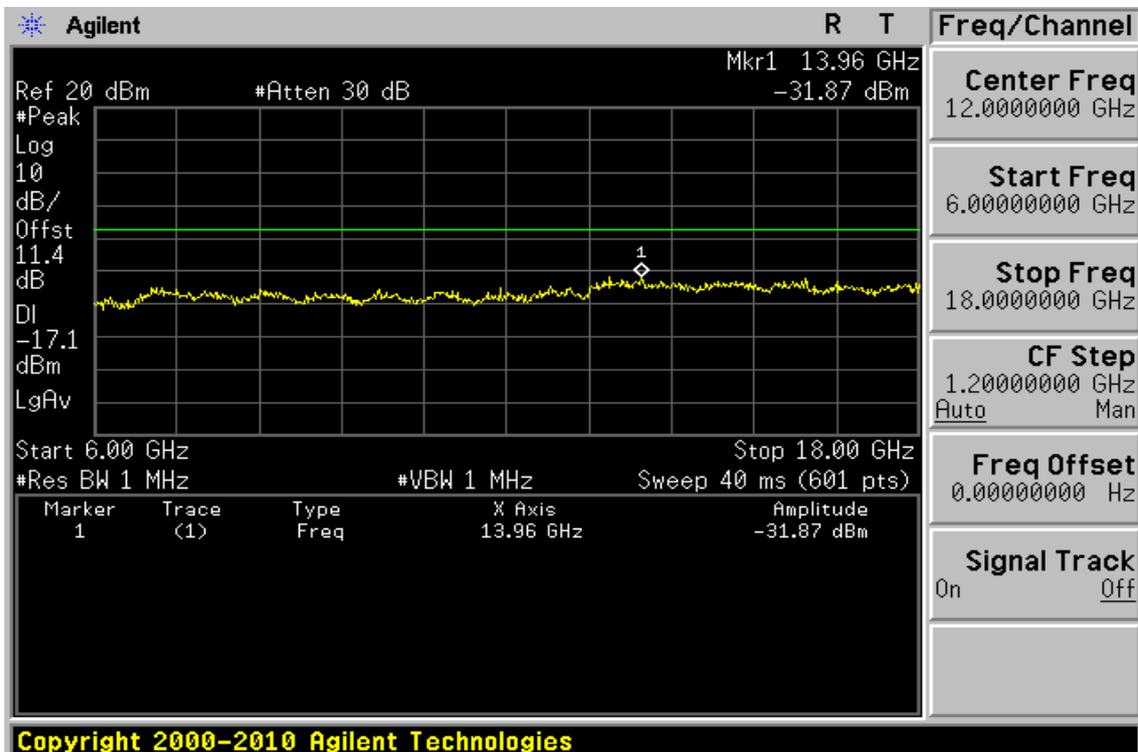
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802.11a, 5470~5725 MHz
Ch Low 30MHz – 6GHz (5500 MHz)



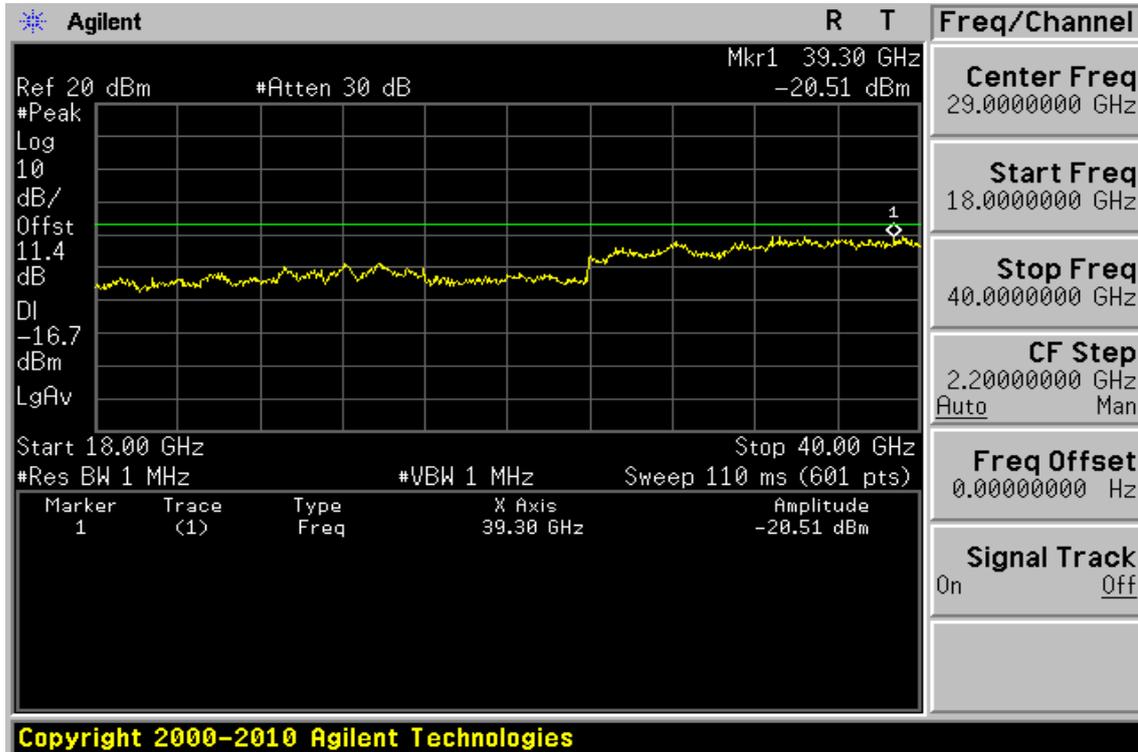
Ch Low 6GHz – 18GHz



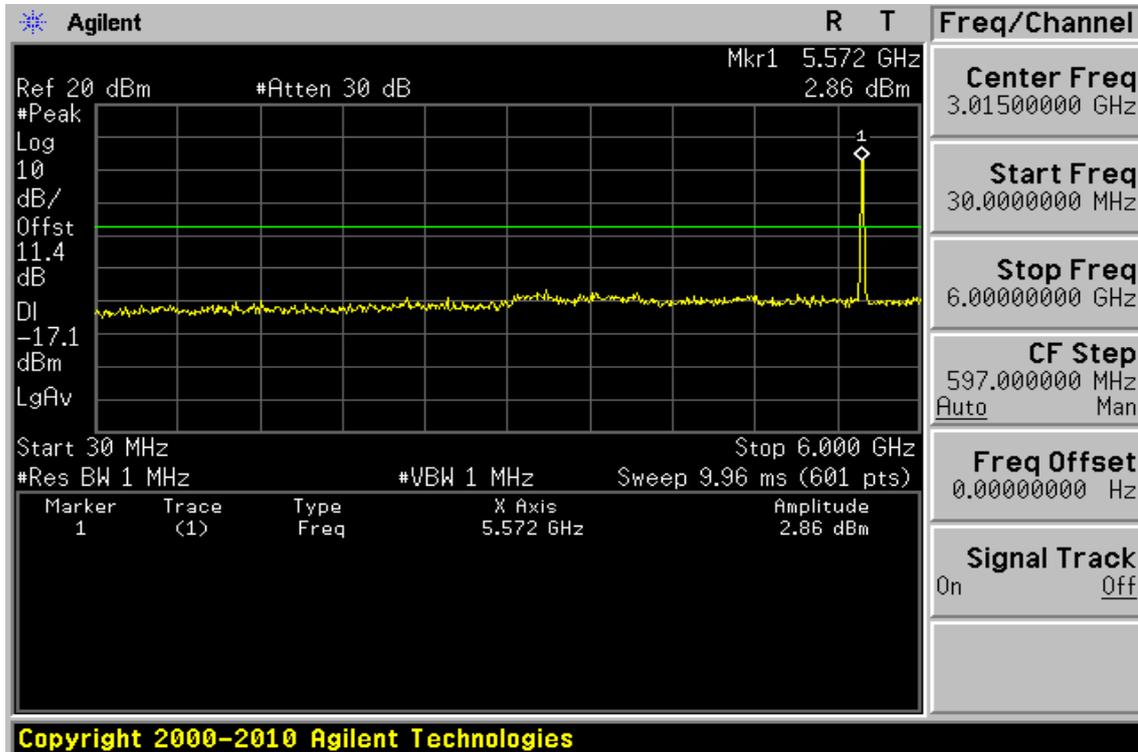
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Ch Low 18GHz – 40GHz



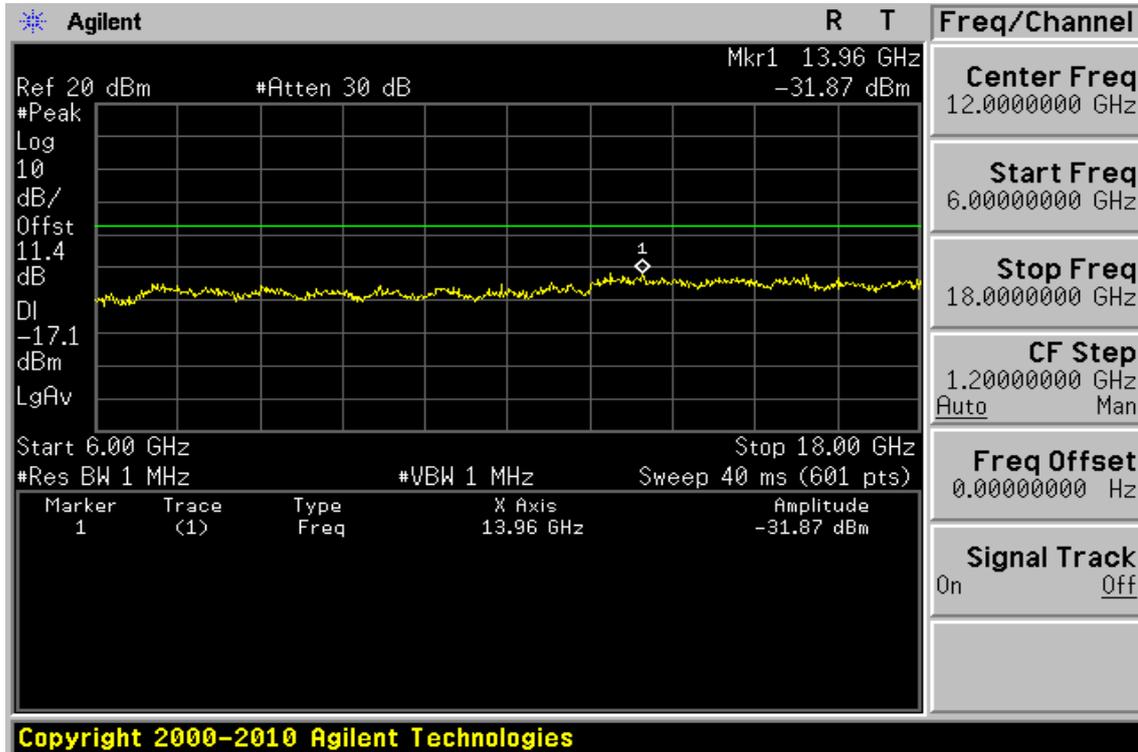
Ch Mid 30MHz – 6GHz (5580 MHz)



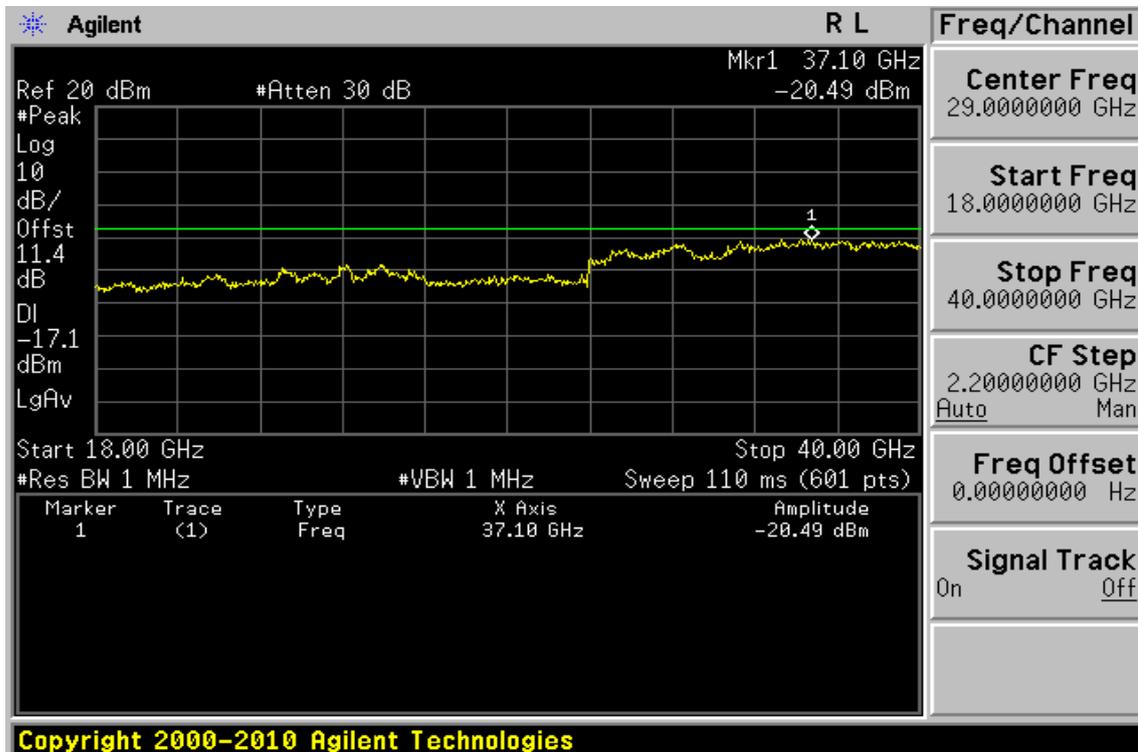
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Ch Mid 6GHz – 18GHz



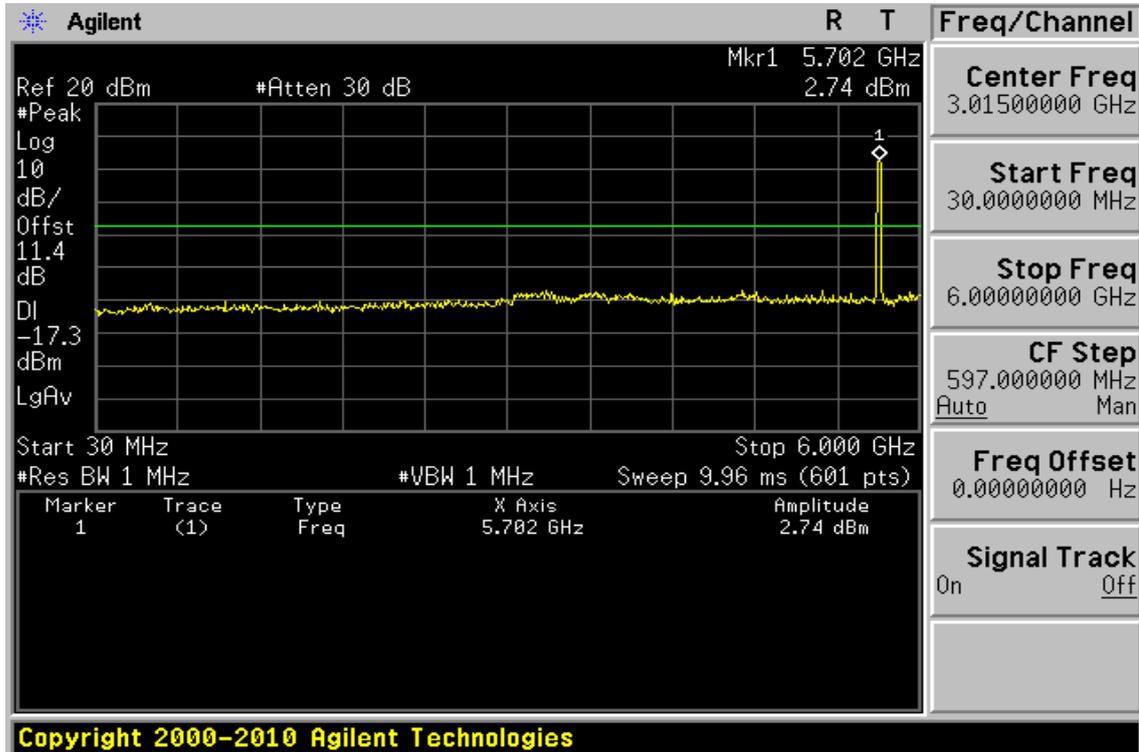
Ch Mid 18GHz – 40GHz



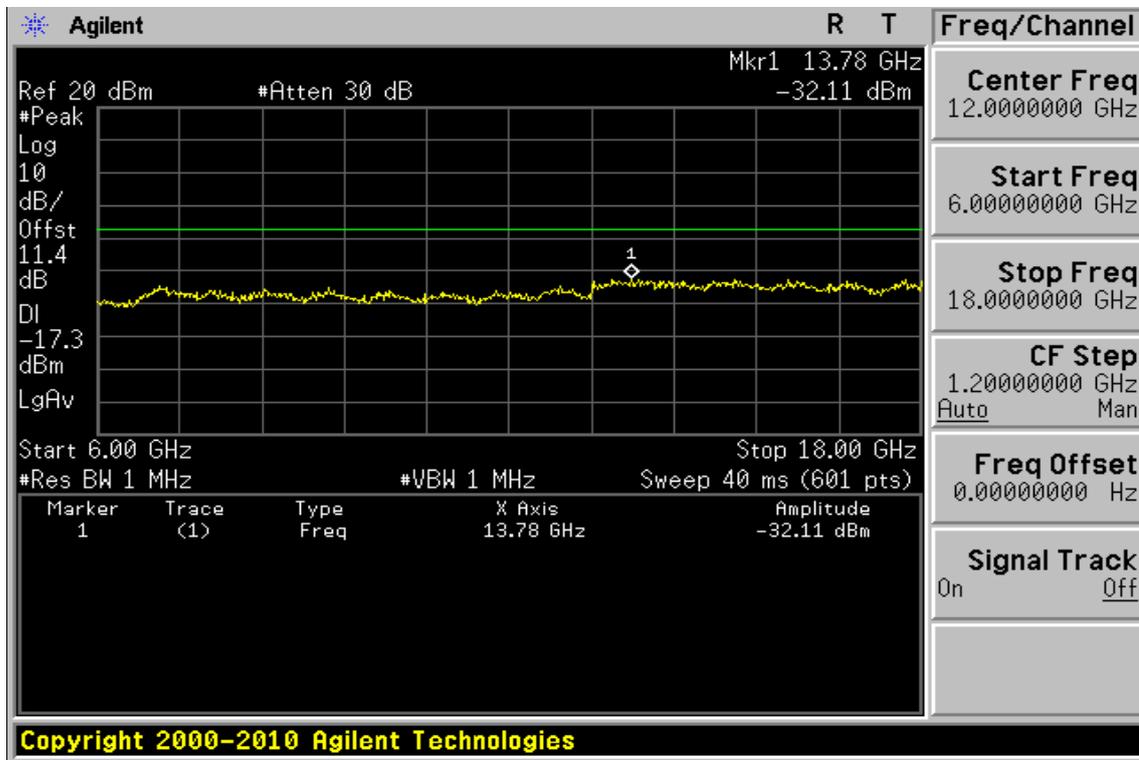
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz

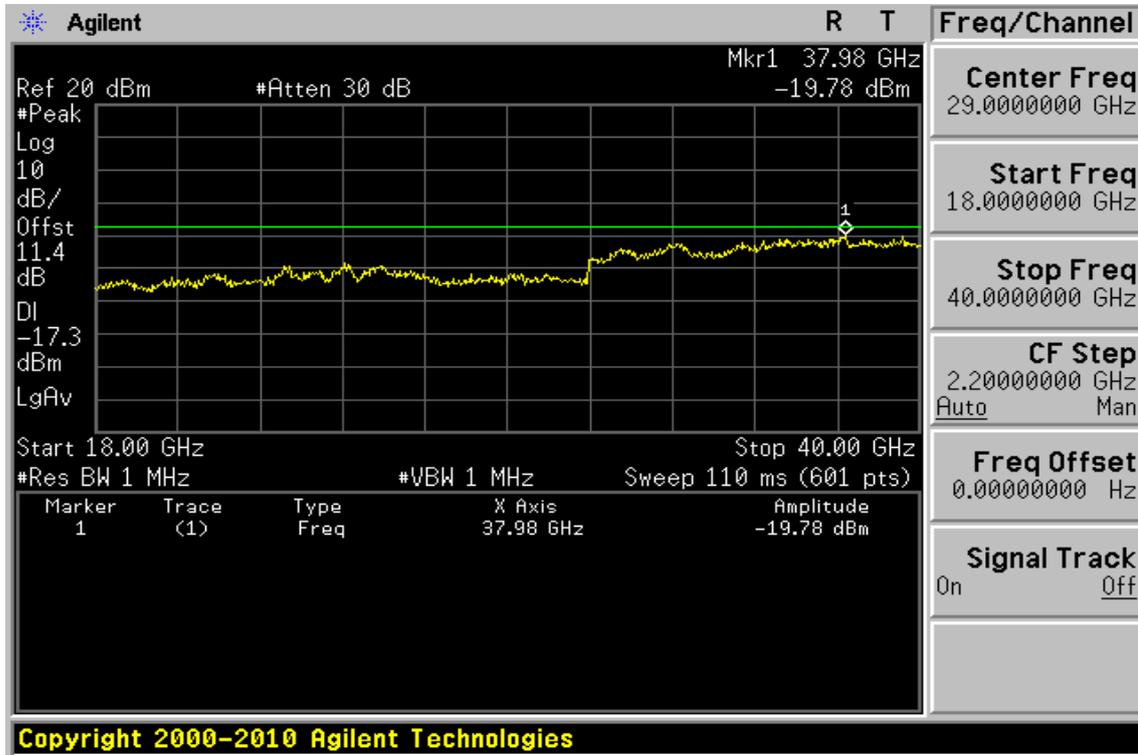


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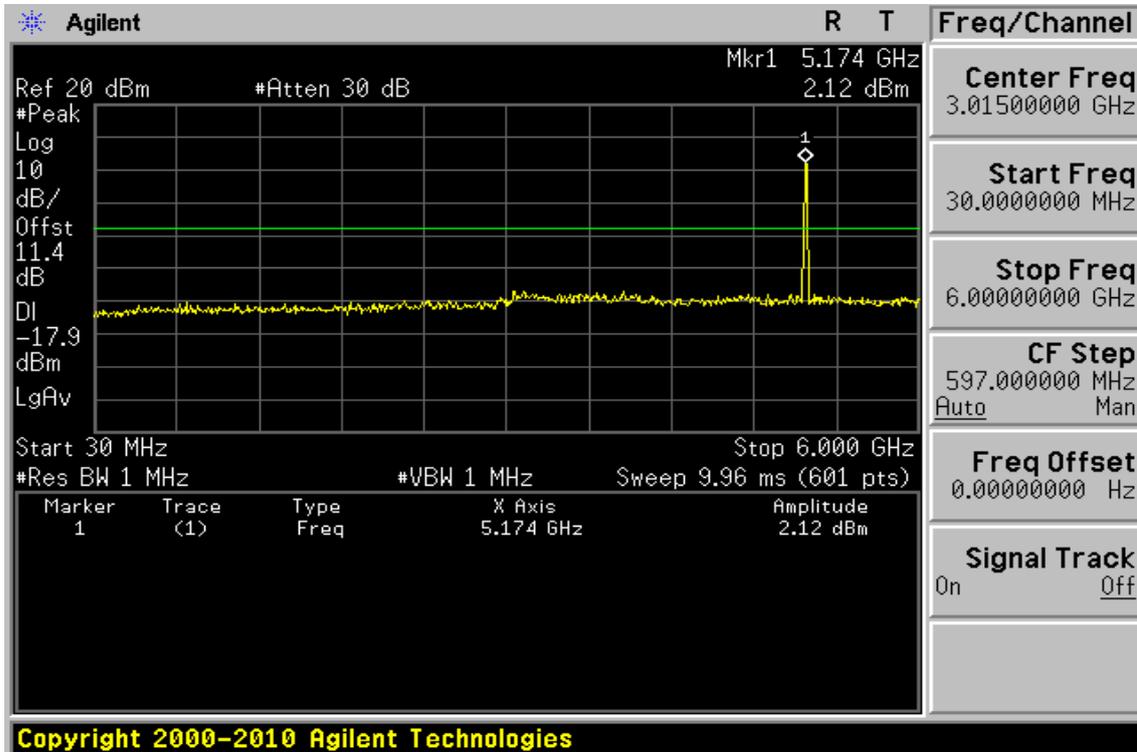
Ch High 18GHz – 40GHz



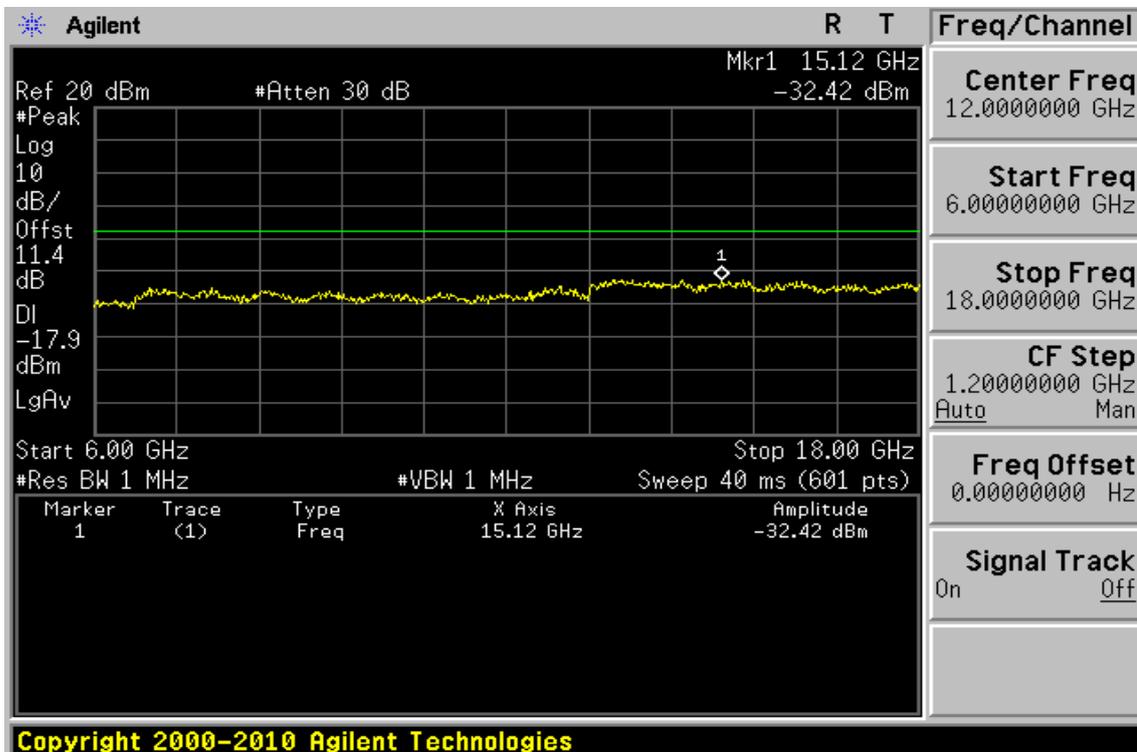
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802.11n HT20, 5150~5250 MHz
Ch Low 30MHz – 6GHz (5180 MHz)



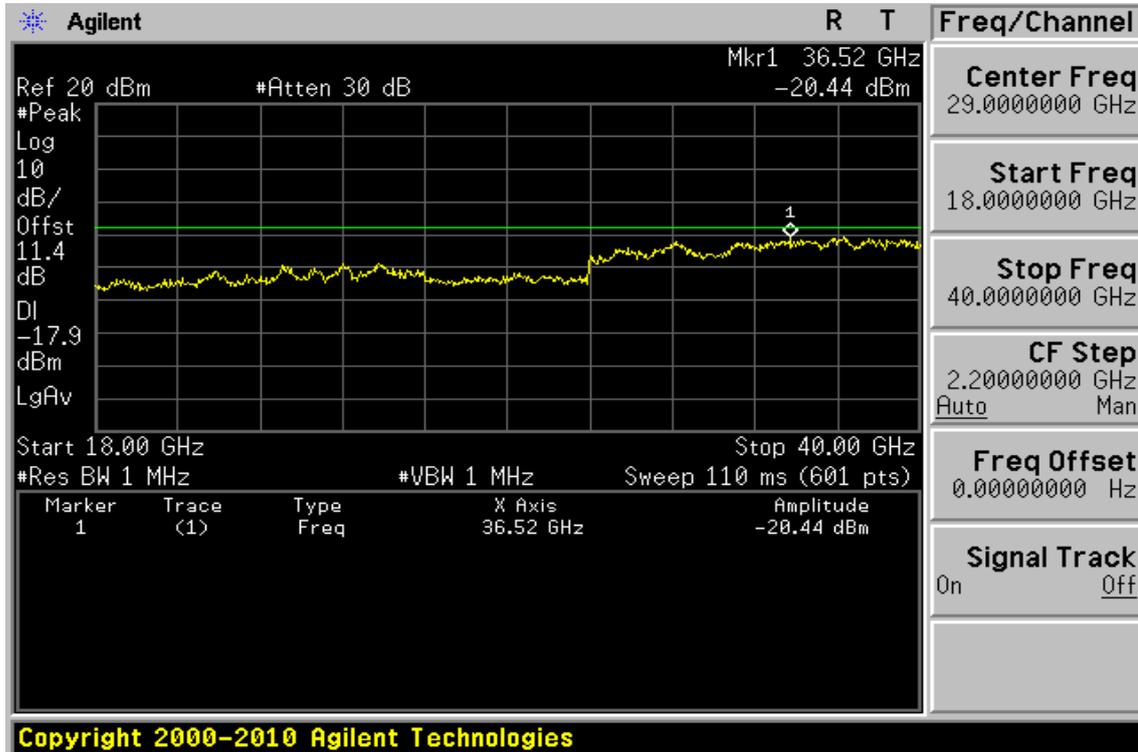
Ch Low 6GHz – 18GHz



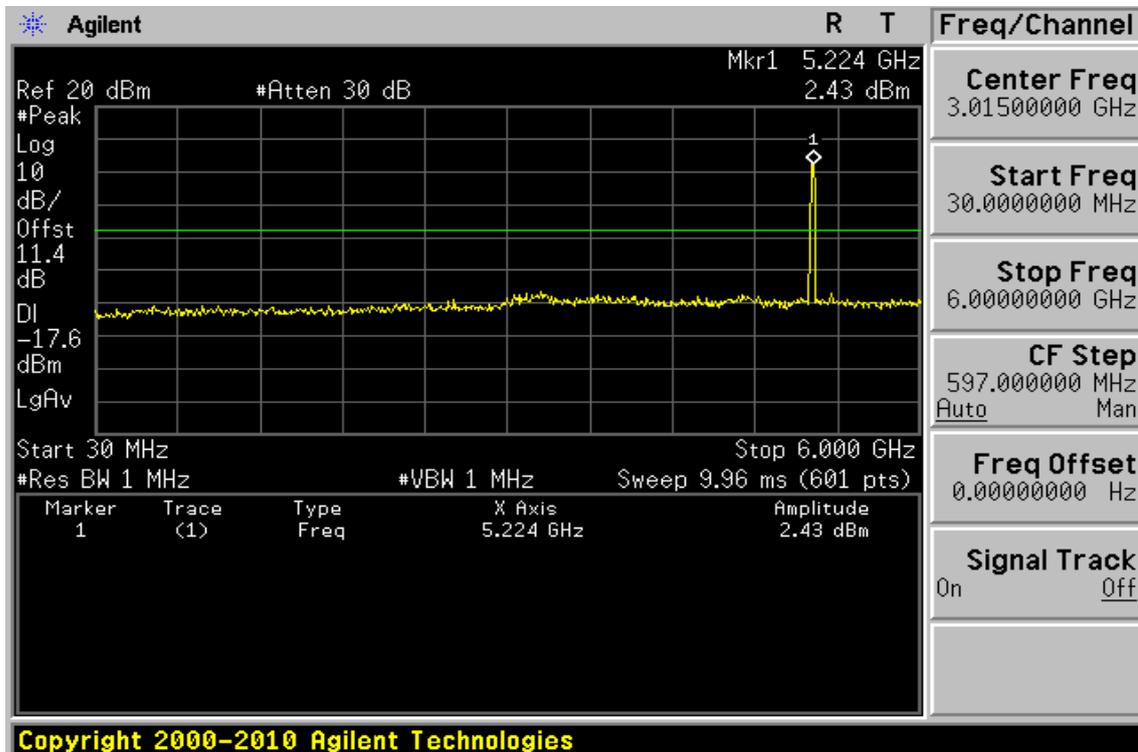
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Ch Low 18GHz – 40GHz



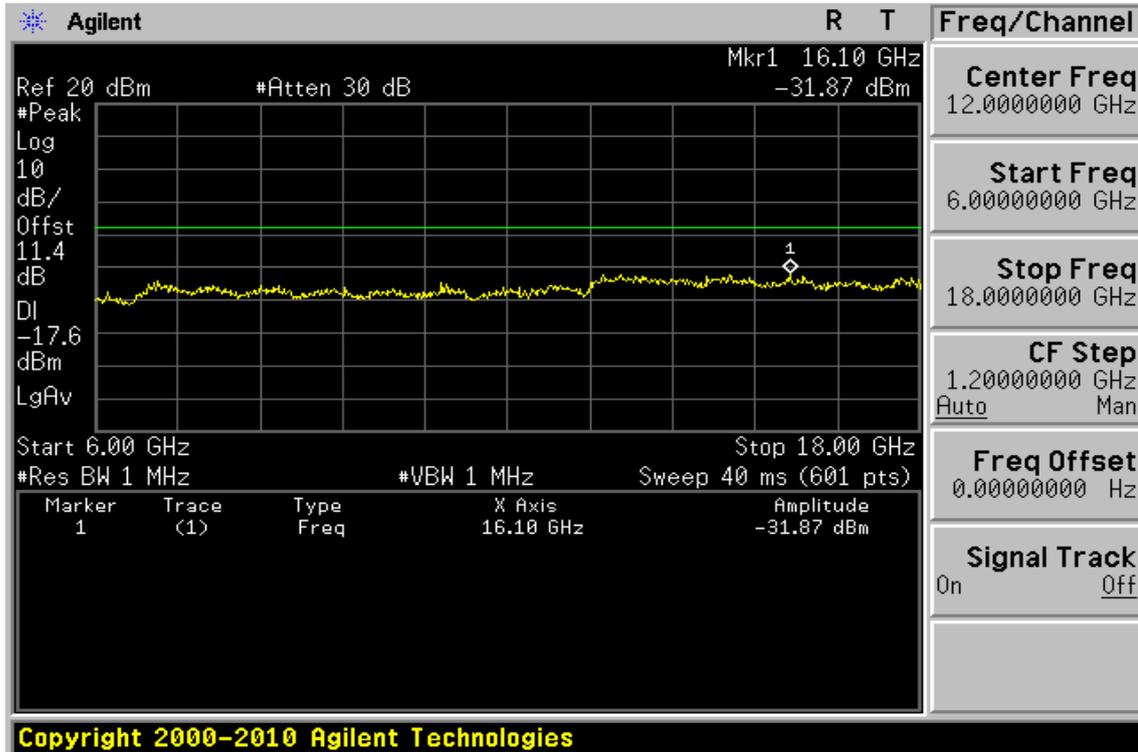
Ch Mid 30MHz – 6GHz (5220 MHz)



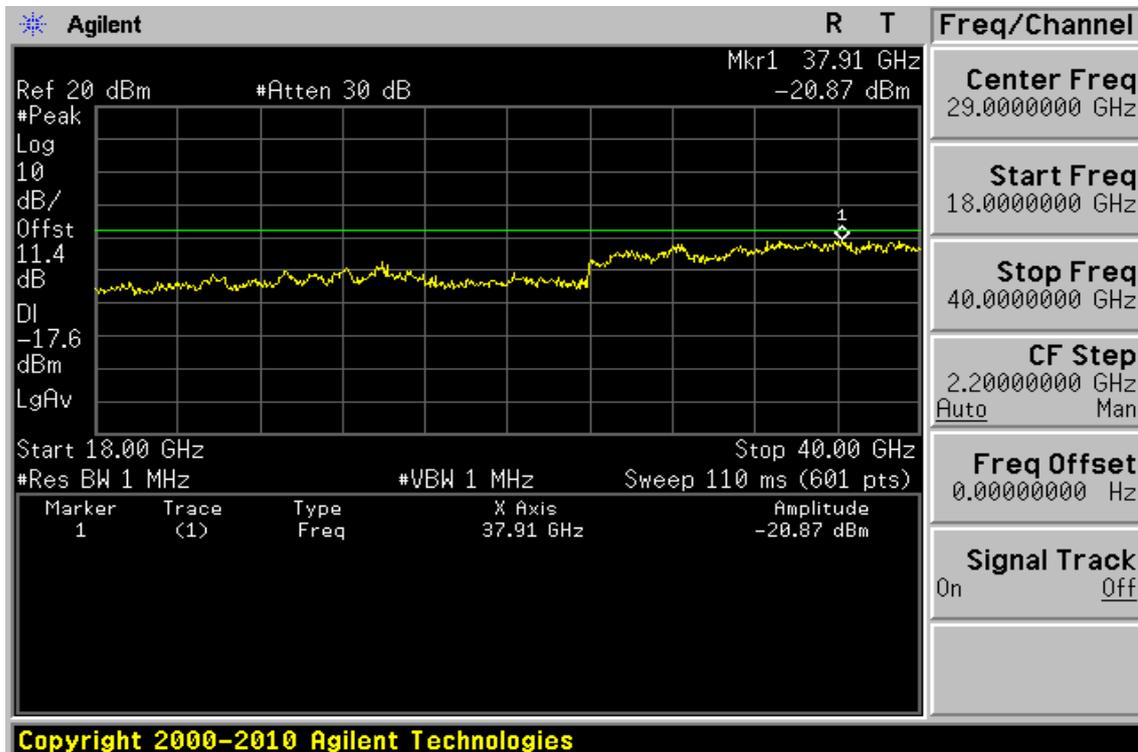
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Ch Mid 6GHz – 18GHz



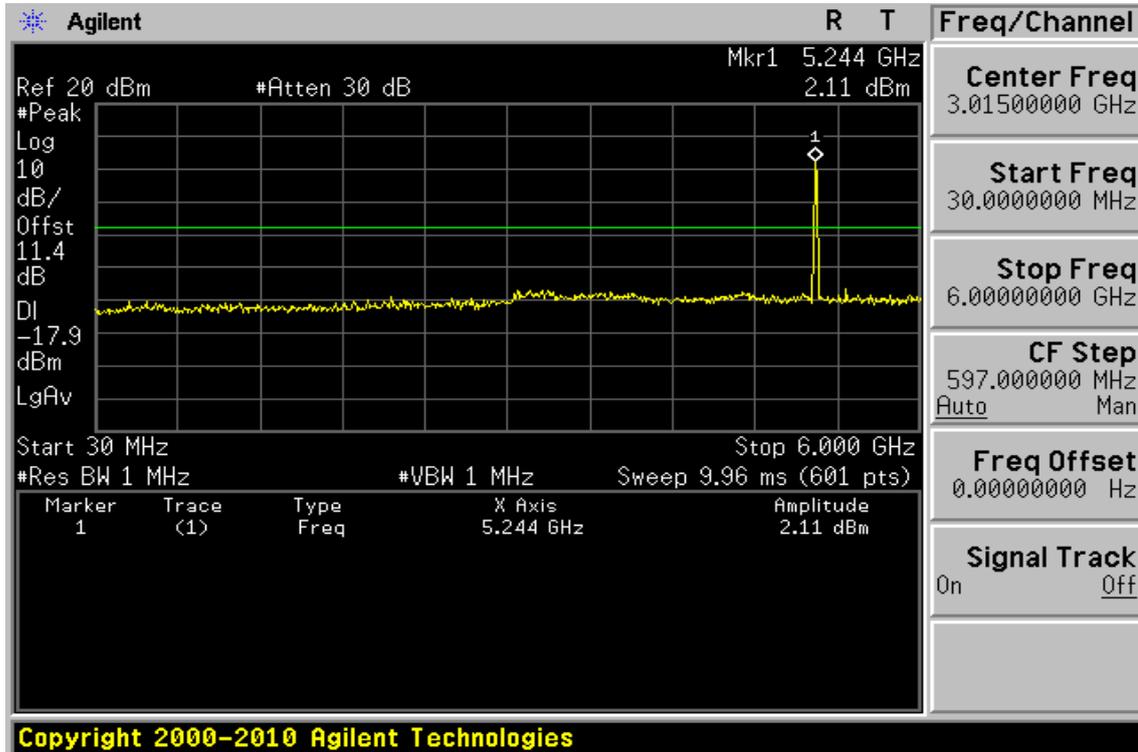
Ch Mid 18GHz – 40GHz



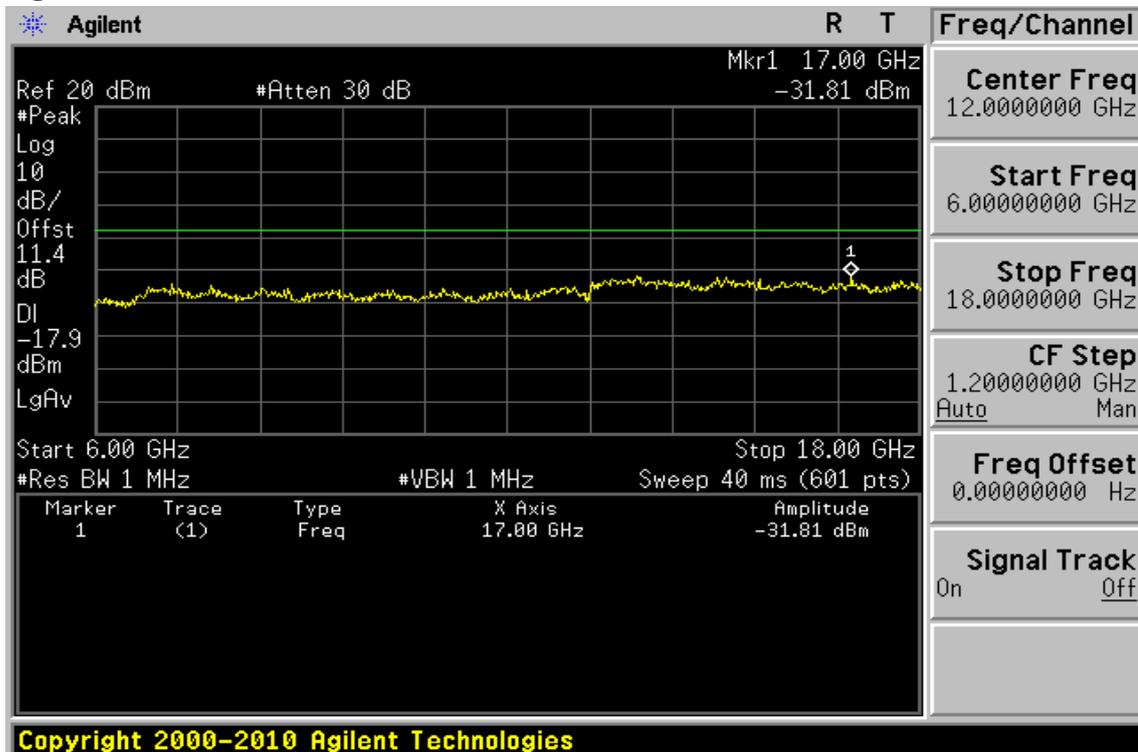
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Ch High 30MHz – 6GHz (5240 MHz)



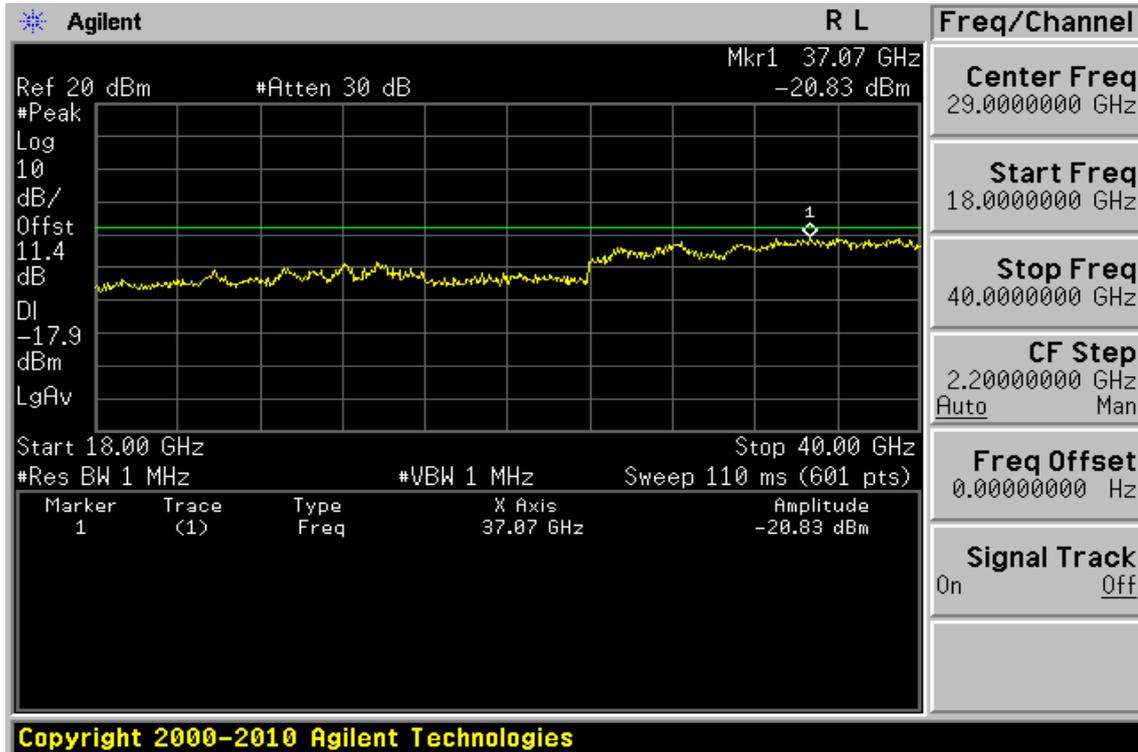
Ch High 6GHz – 18GHz



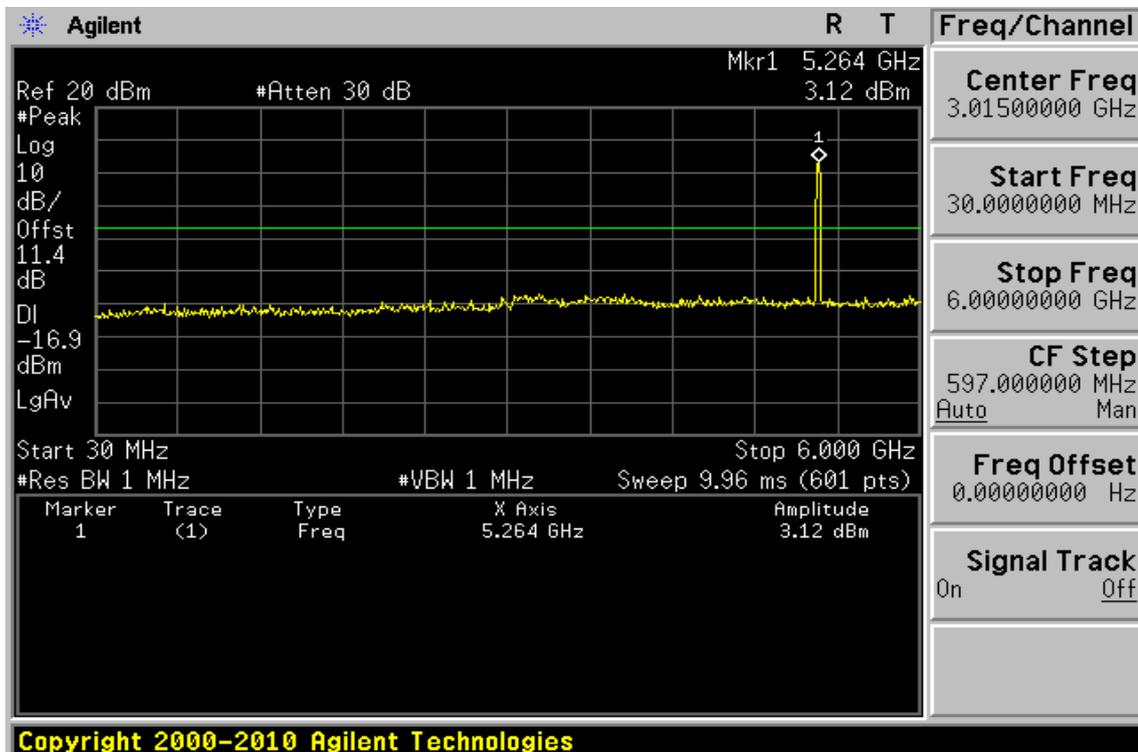
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Ch High 18GHz – 40GHz



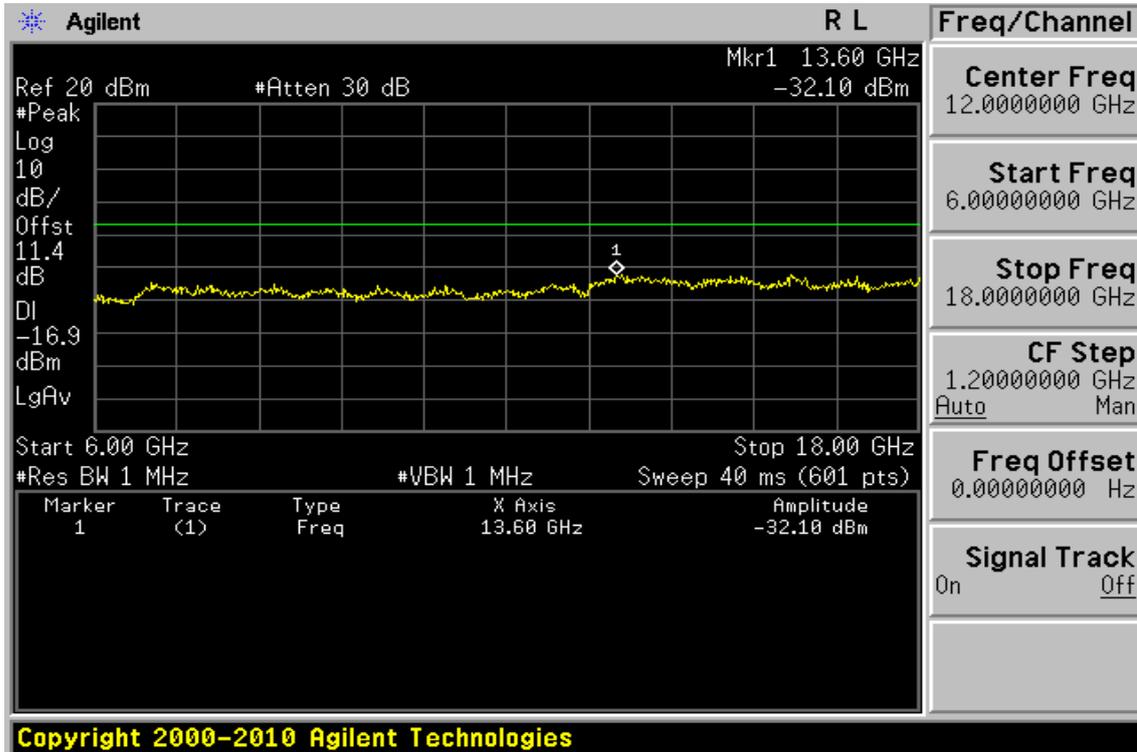
802.11n HT20, 5250~5350 MHz Ch Low 30MHz – 6GHz (5260 MHz)



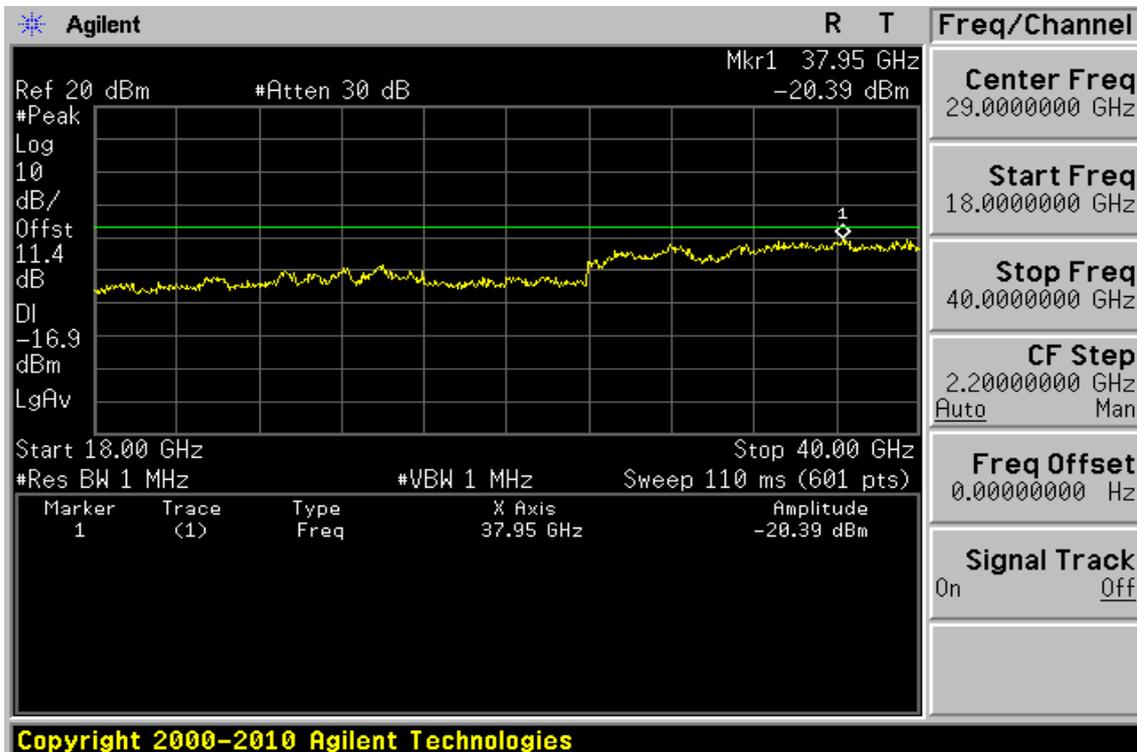
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Ch Low 6GHz – 18GHz



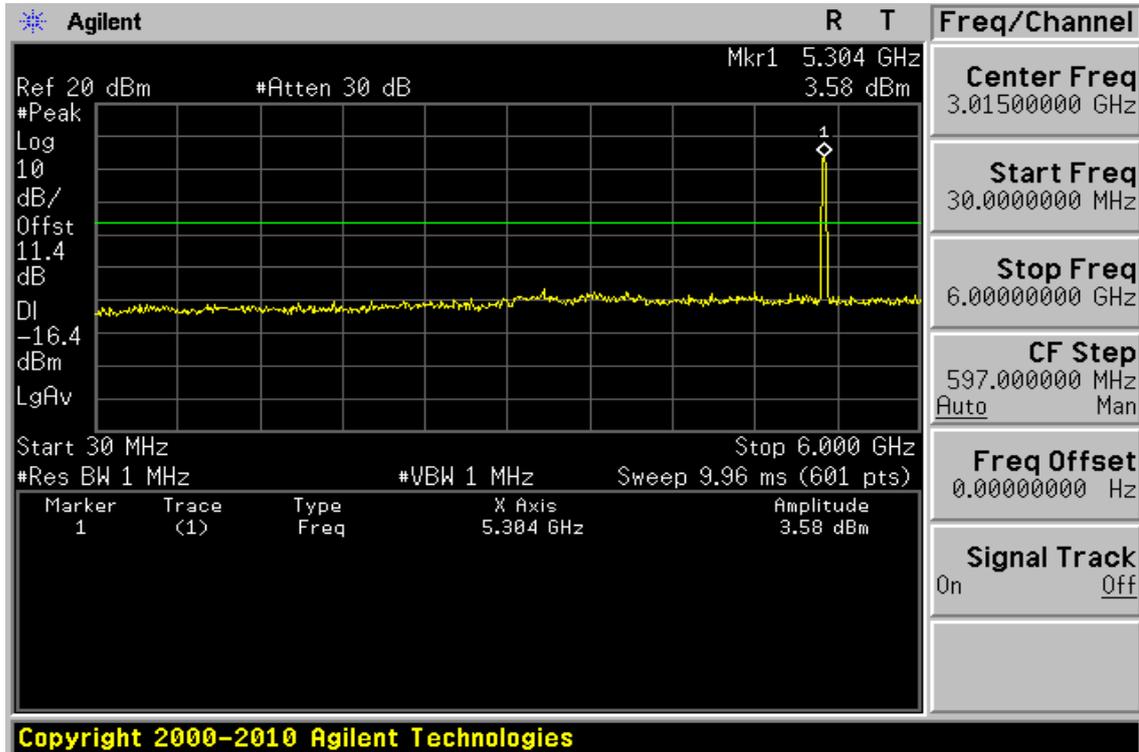
Ch Low 18GHz – 40GHz



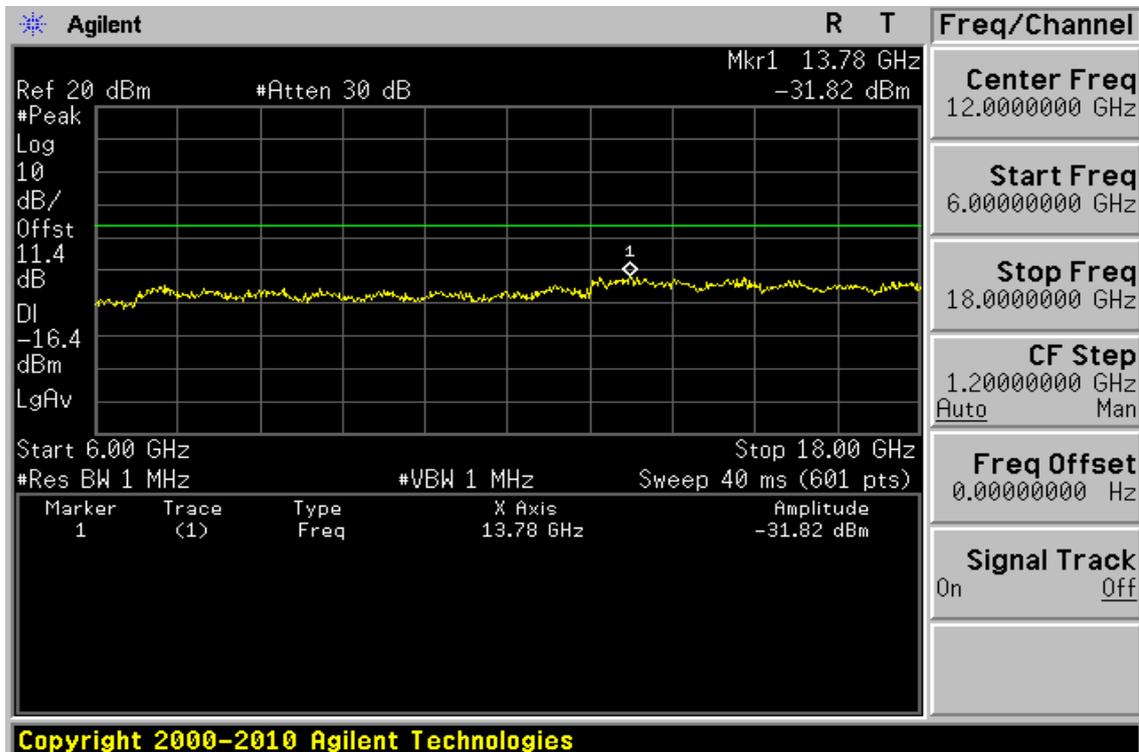
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Ch Mid 30MHz – 6GHz (5300 MHz)



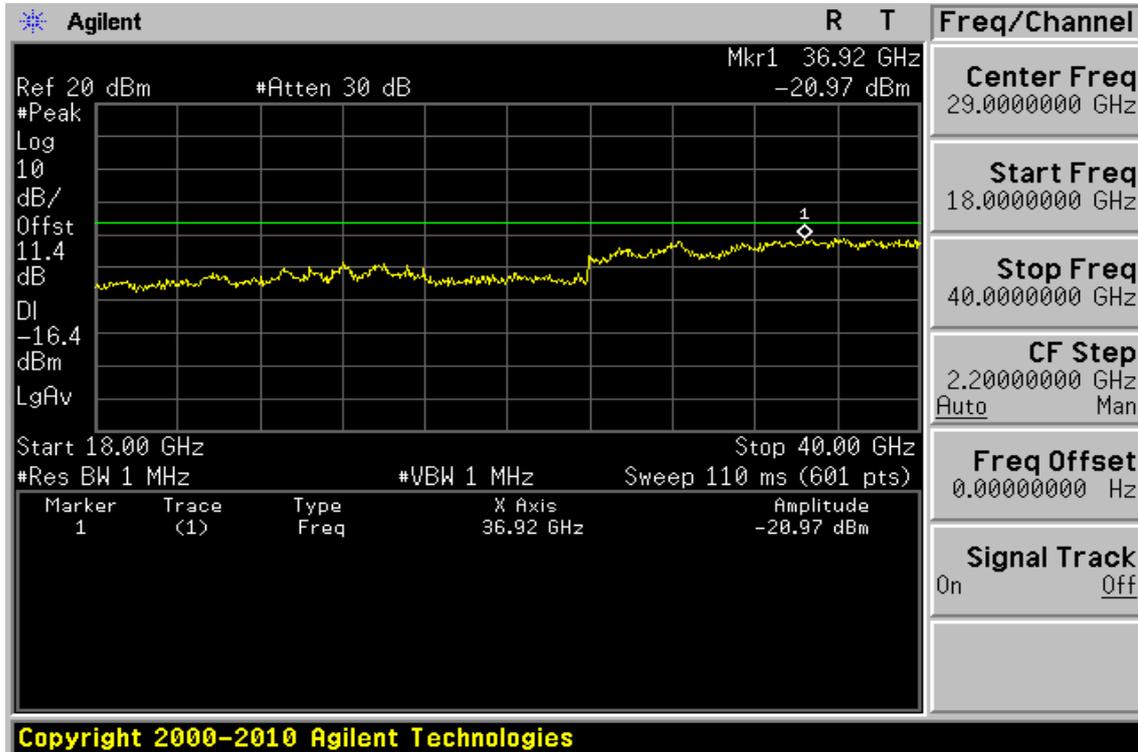
Ch Mid 6GHz – 18GHz



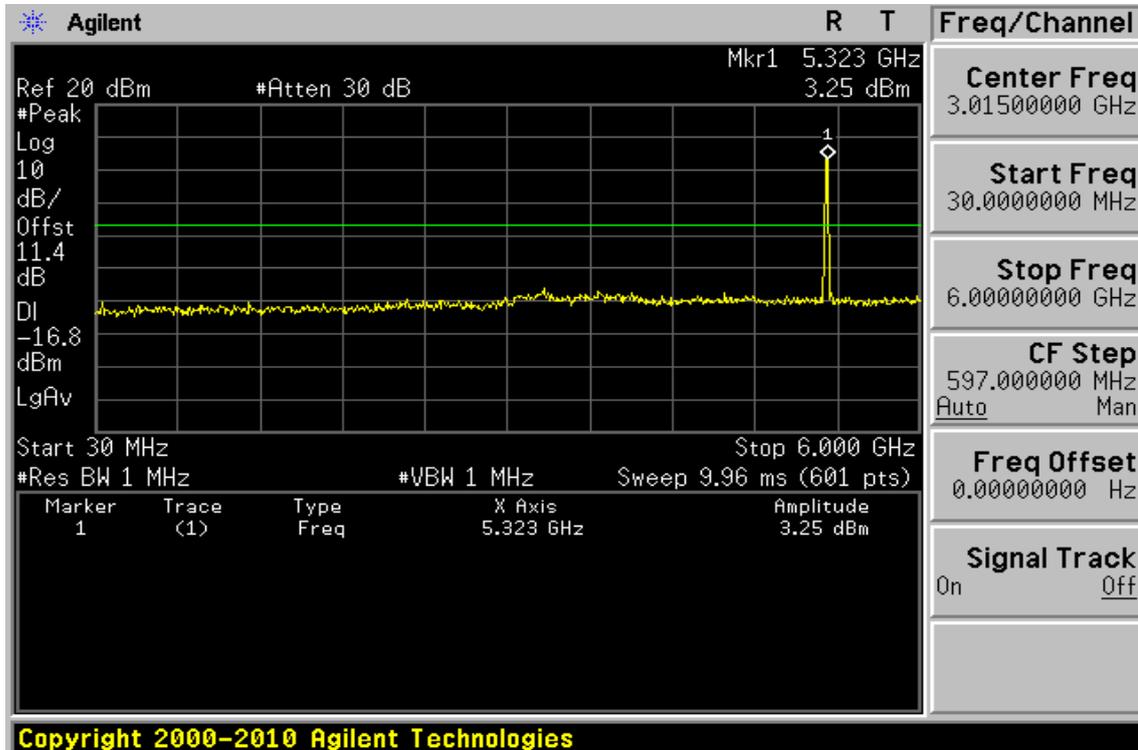
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Ch Mid 18GHz – 40GHz



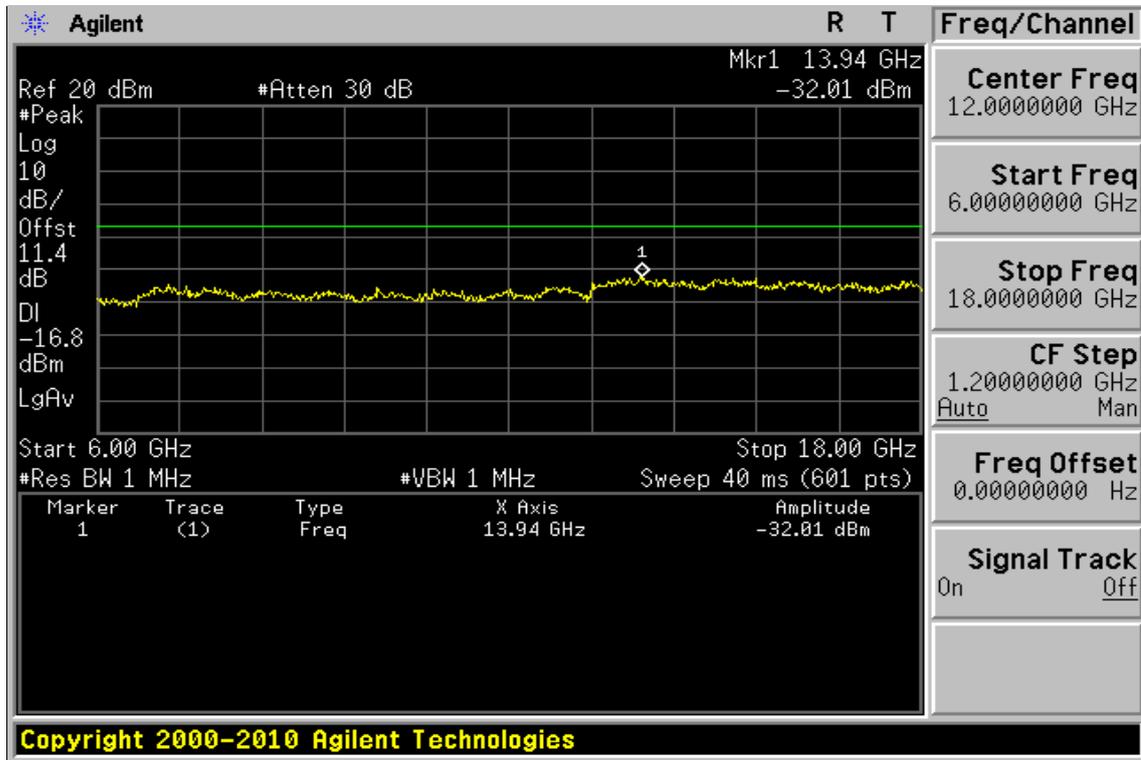
Ch High 30MHz – 6GHz (5320 MHz)



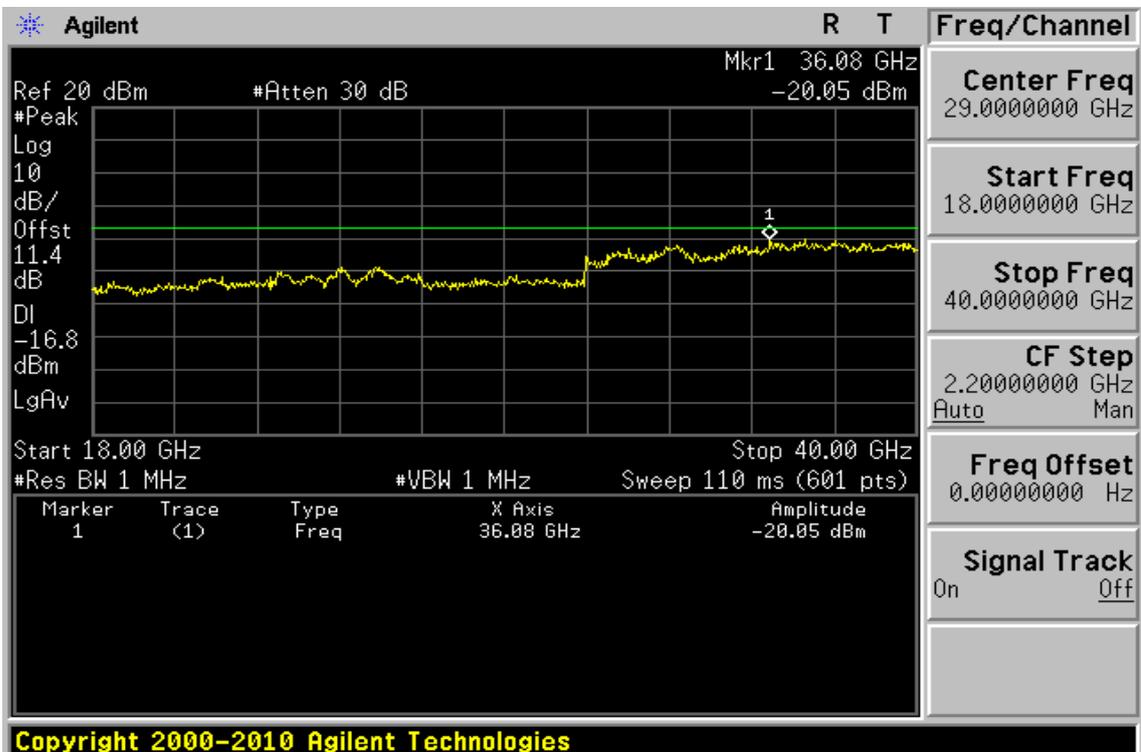
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Ch High 6GHz – 18GHz



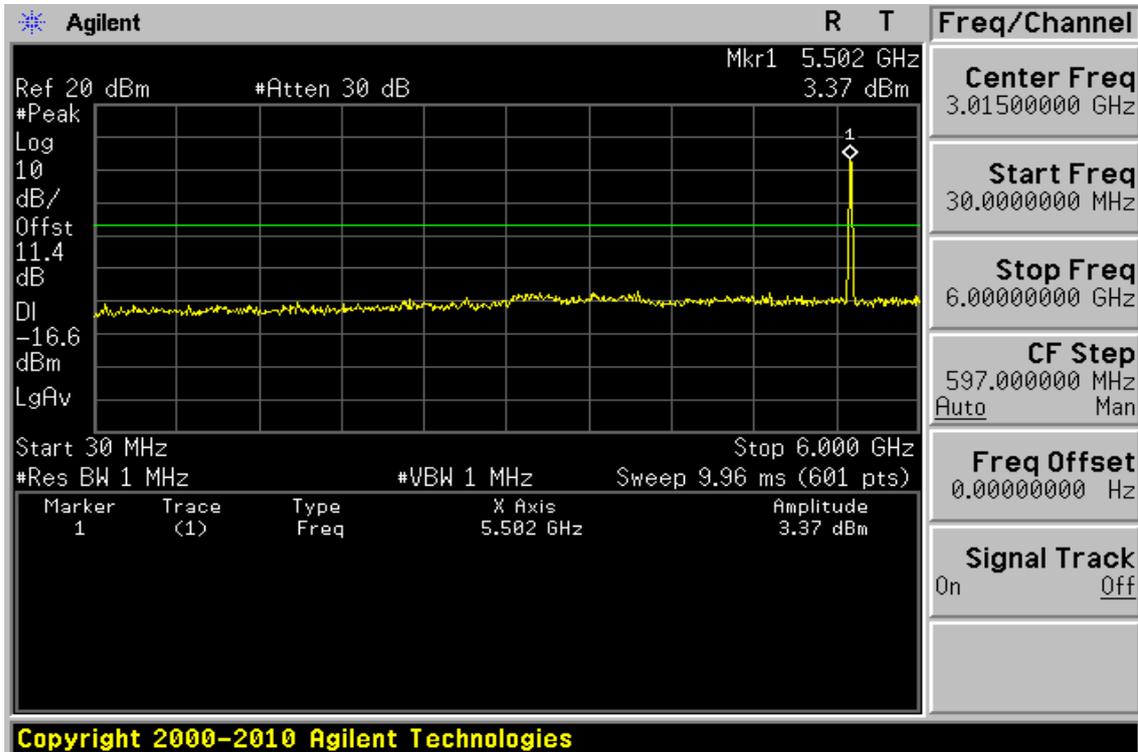
Ch High 18GHz – 40GHz



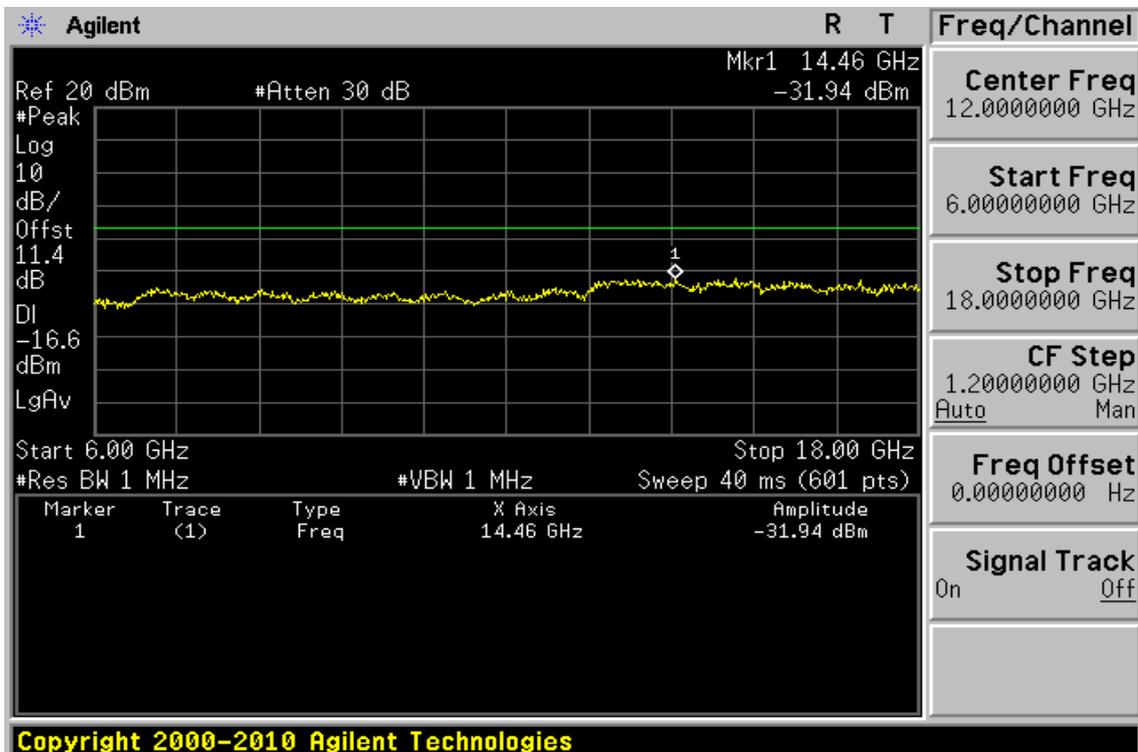
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802.11n HT20, 5470~5725 MHz
Ch Low 30MHz – 6GHz (5500 MHz)



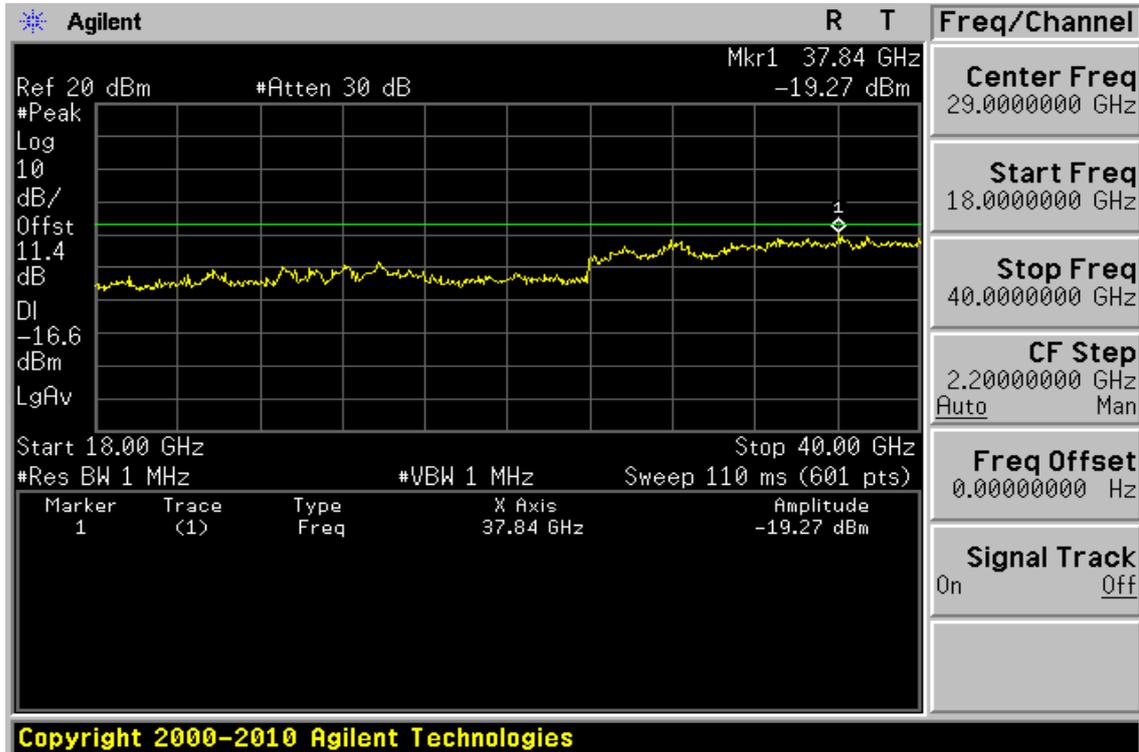
Ch Low 6GHz – 18GHz



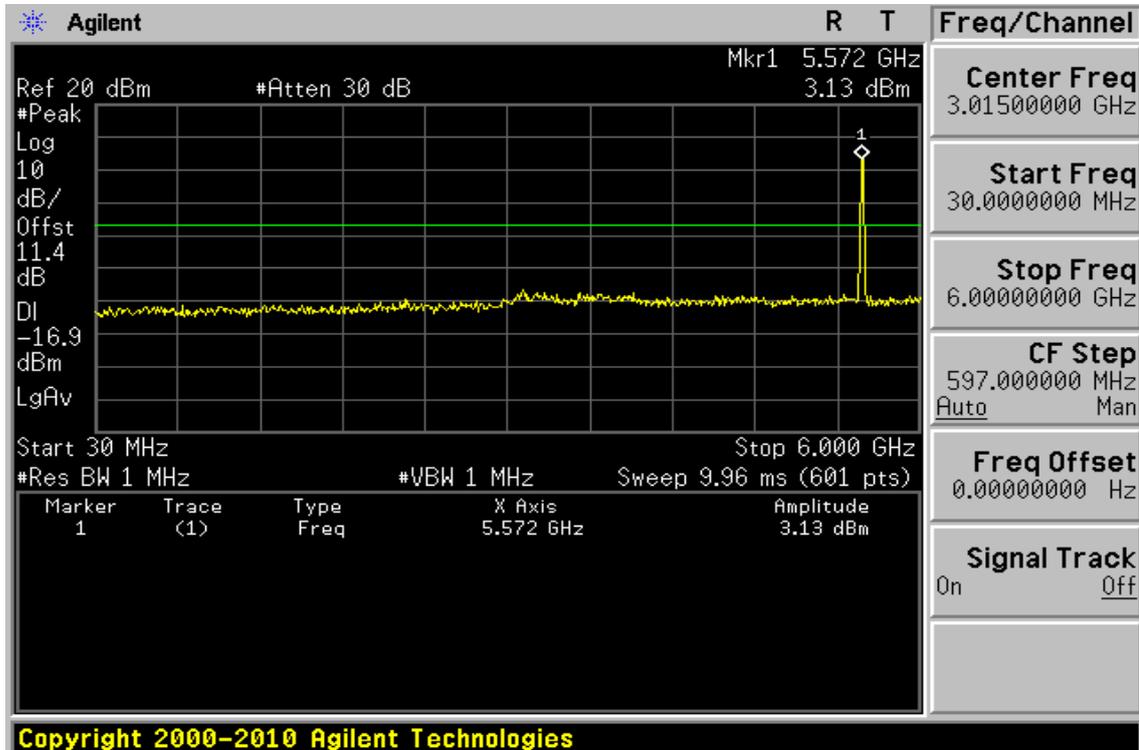
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Ch Low 18GHz – 40GHz



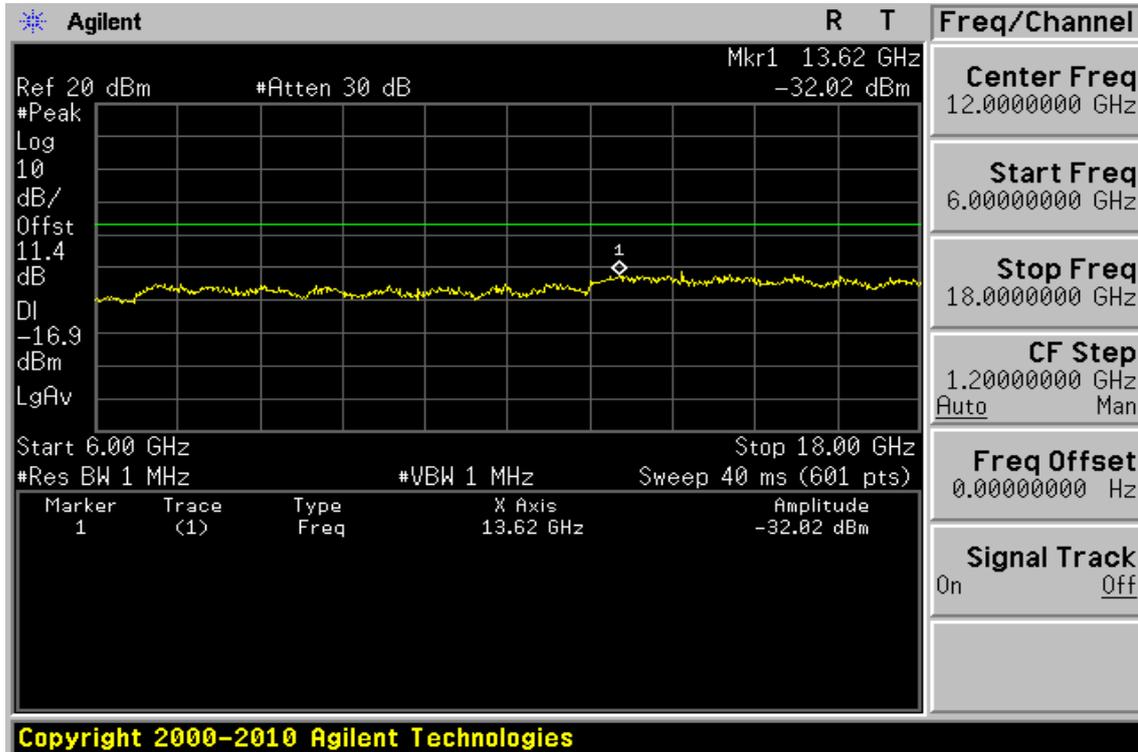
Ch Mid 30MHz – 6GHz (5580 MHz)



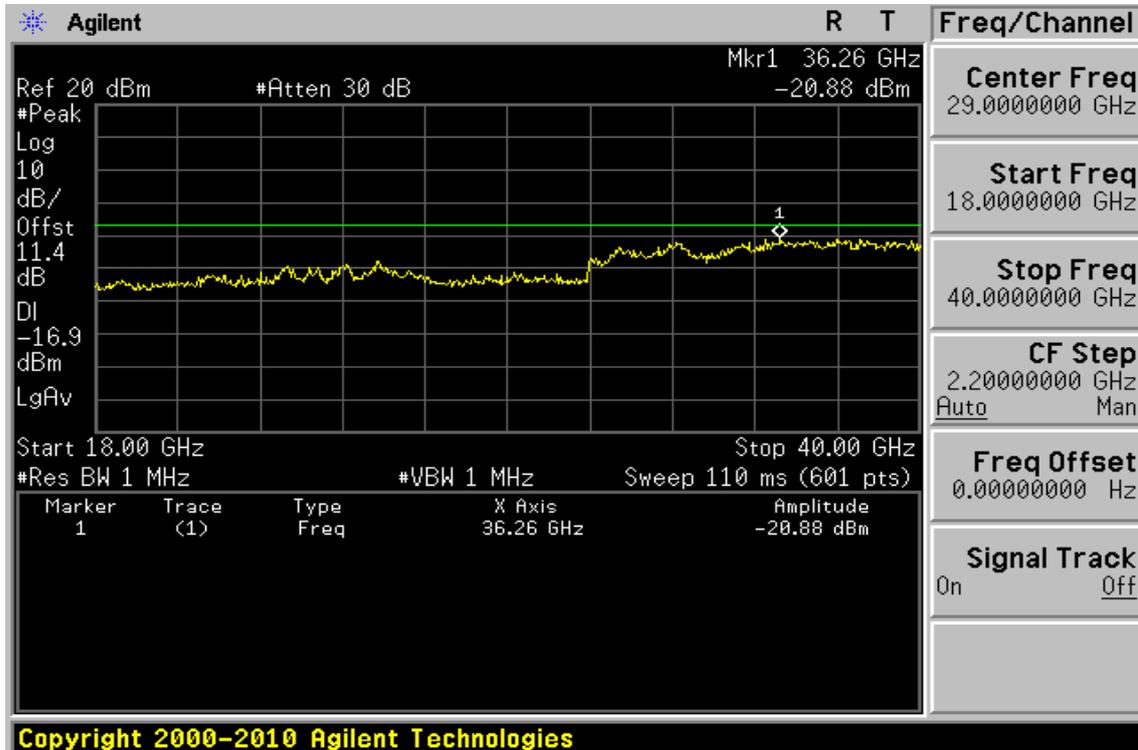
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Ch Mid 6GHz – 18GHz



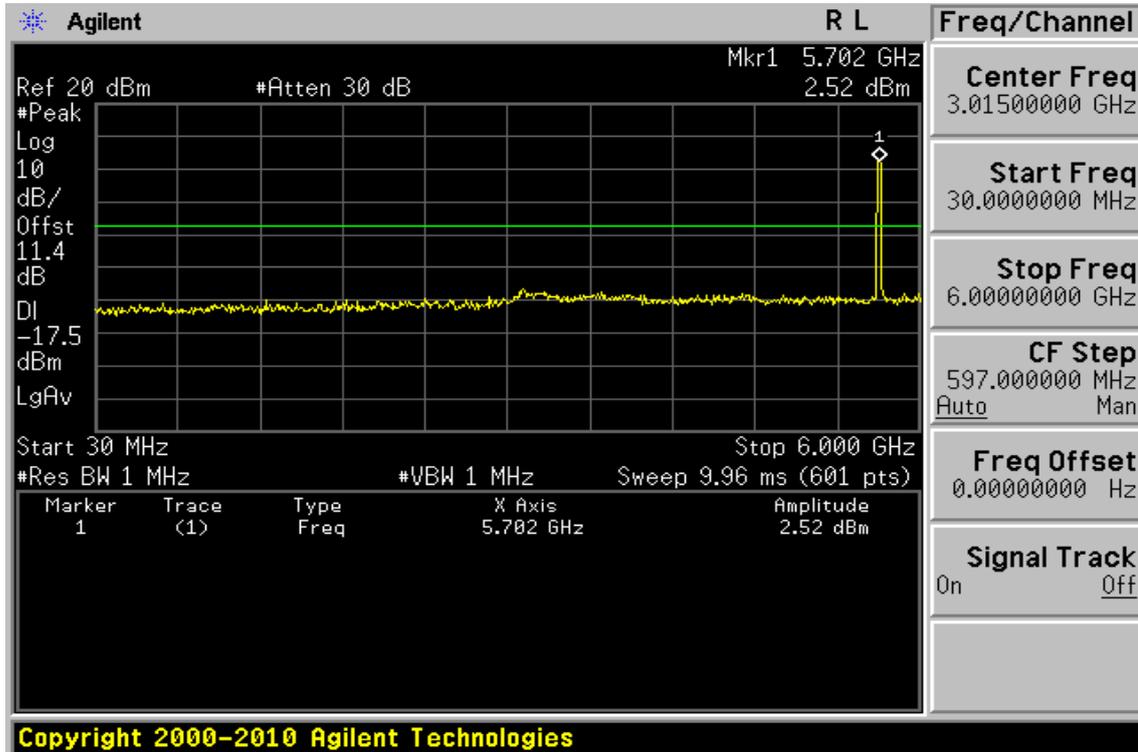
Ch Mid 18GHz – 40GHz



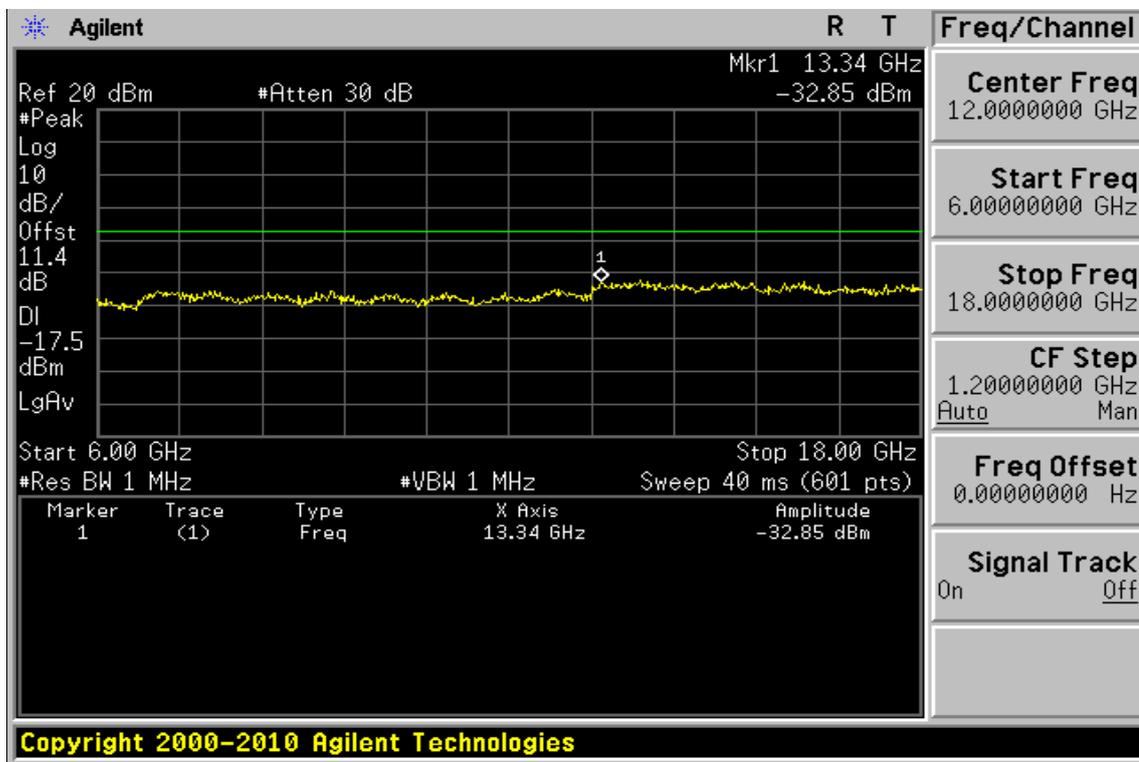
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz

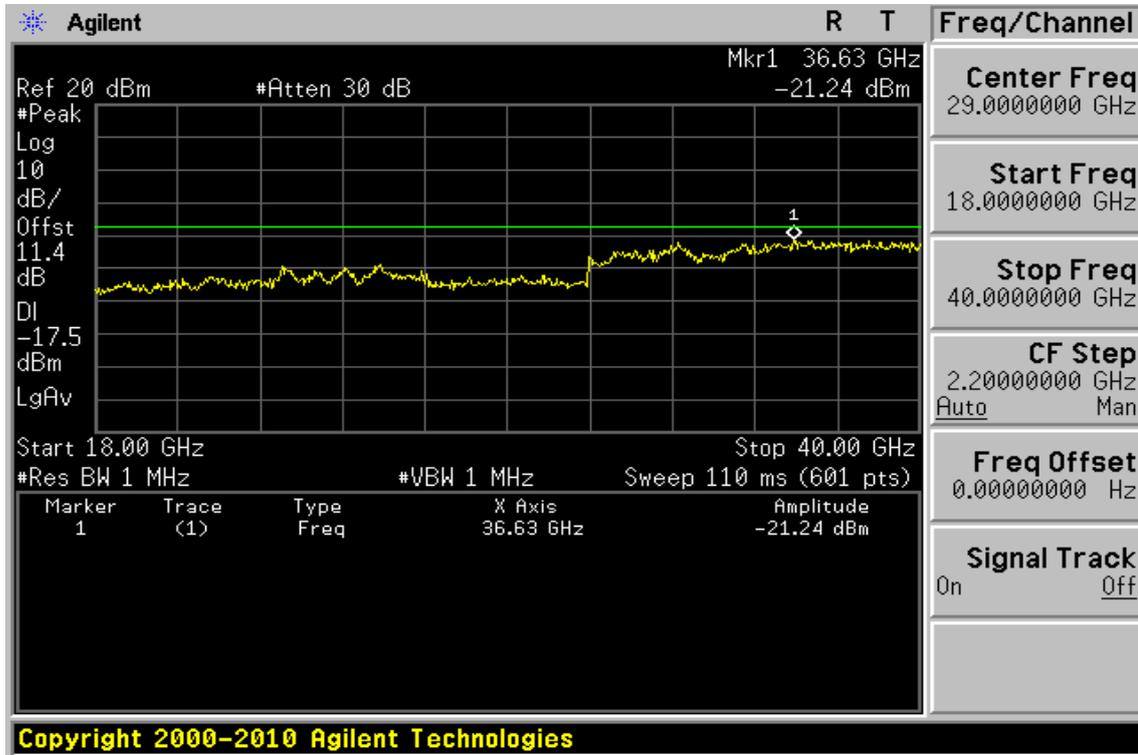


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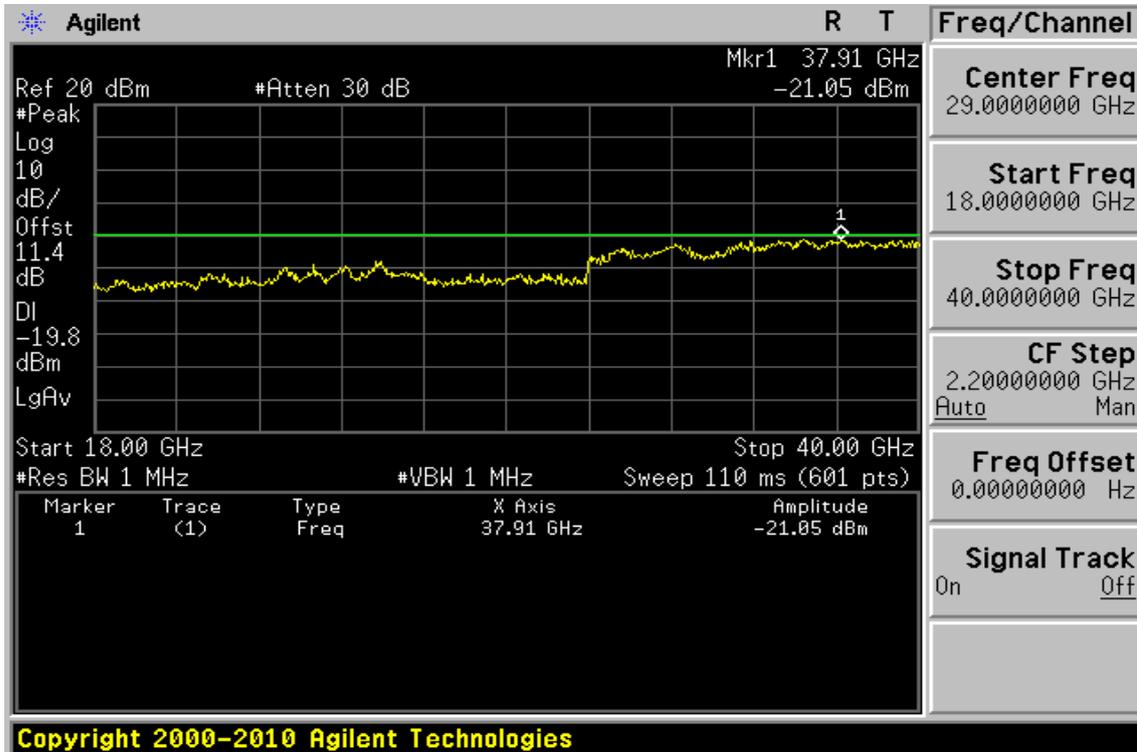
Ch High 18GHz – 40GHz



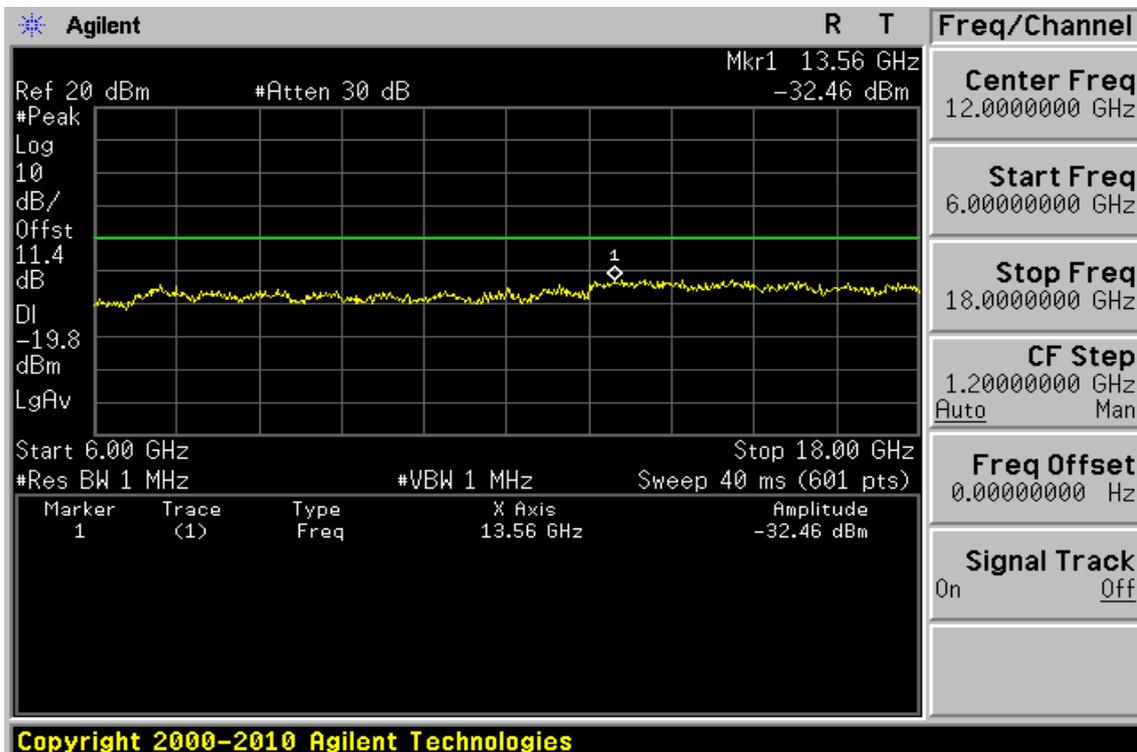
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802.11n HT40, 5150~5250 MHz
Ch Low 30MHz – 6GHz (5190 MHz)



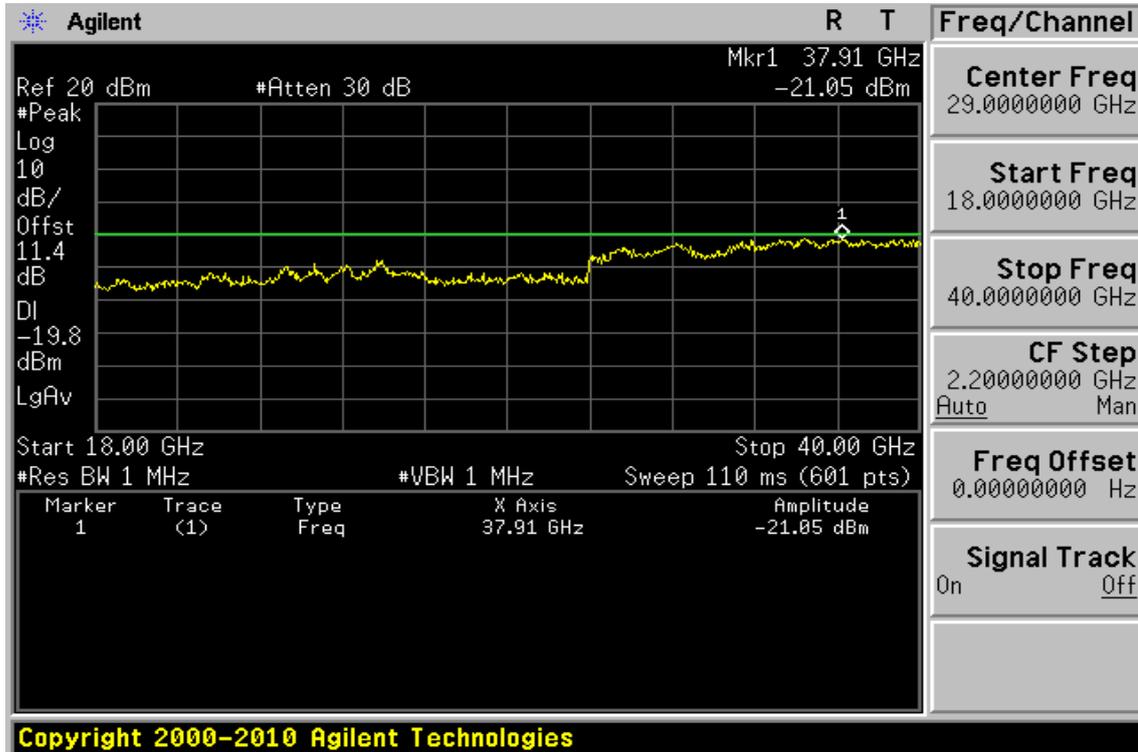
Ch Low 6GHz – 18GHz



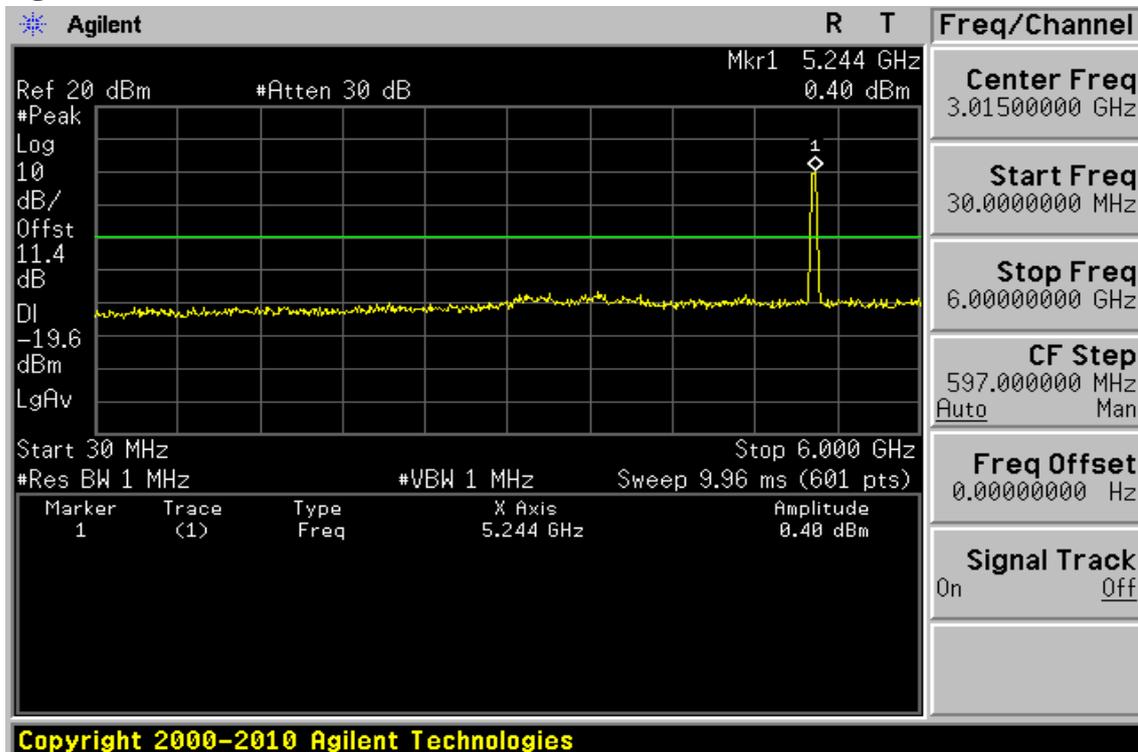
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Ch Low 18GHz – 40GHz



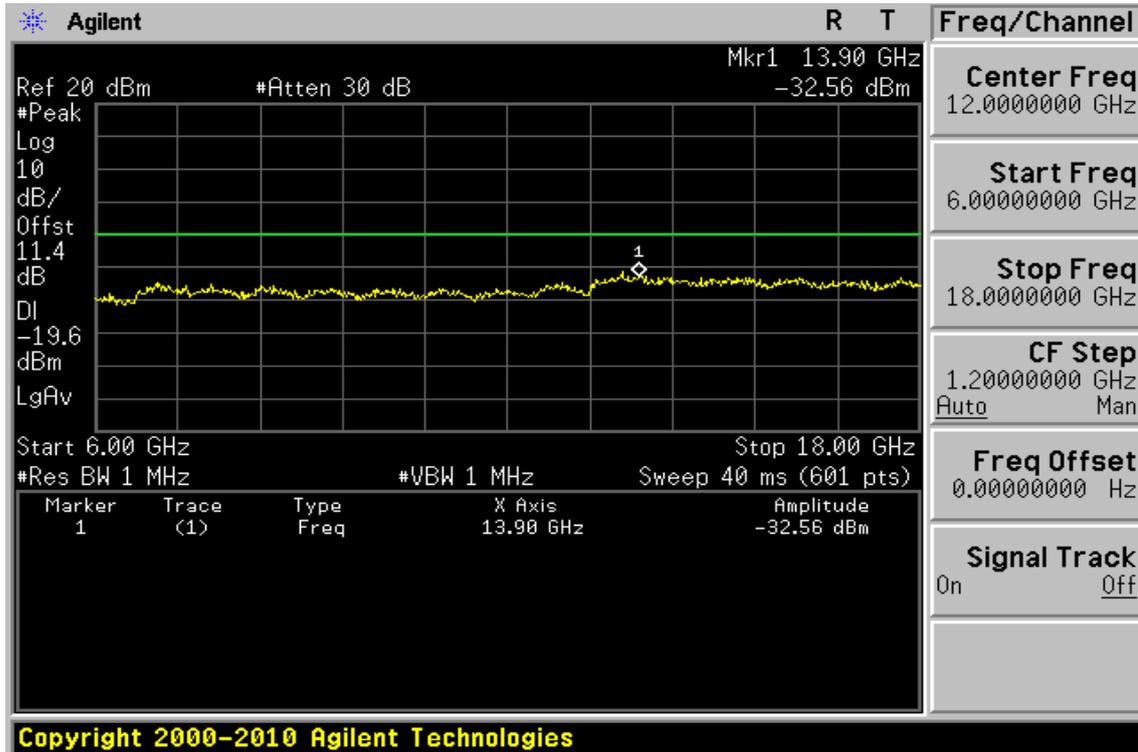
Ch High 30MHz – 6GHz (5230 MHz)



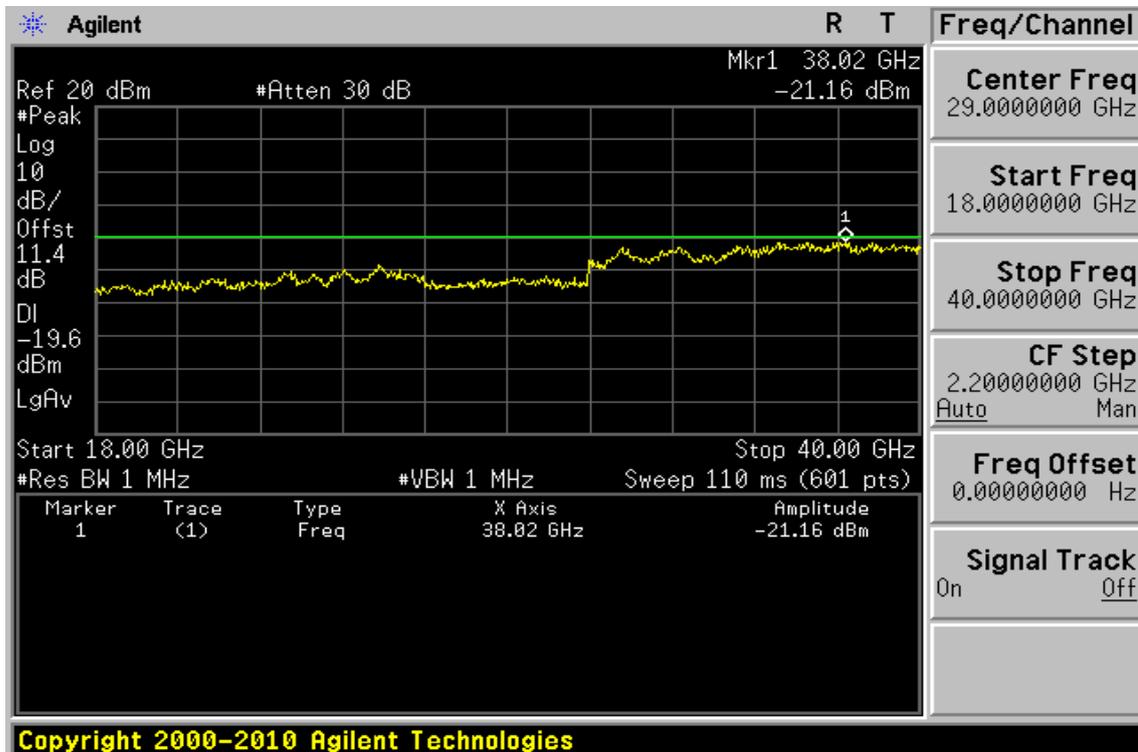
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Ch High 6GHz – 18GHz



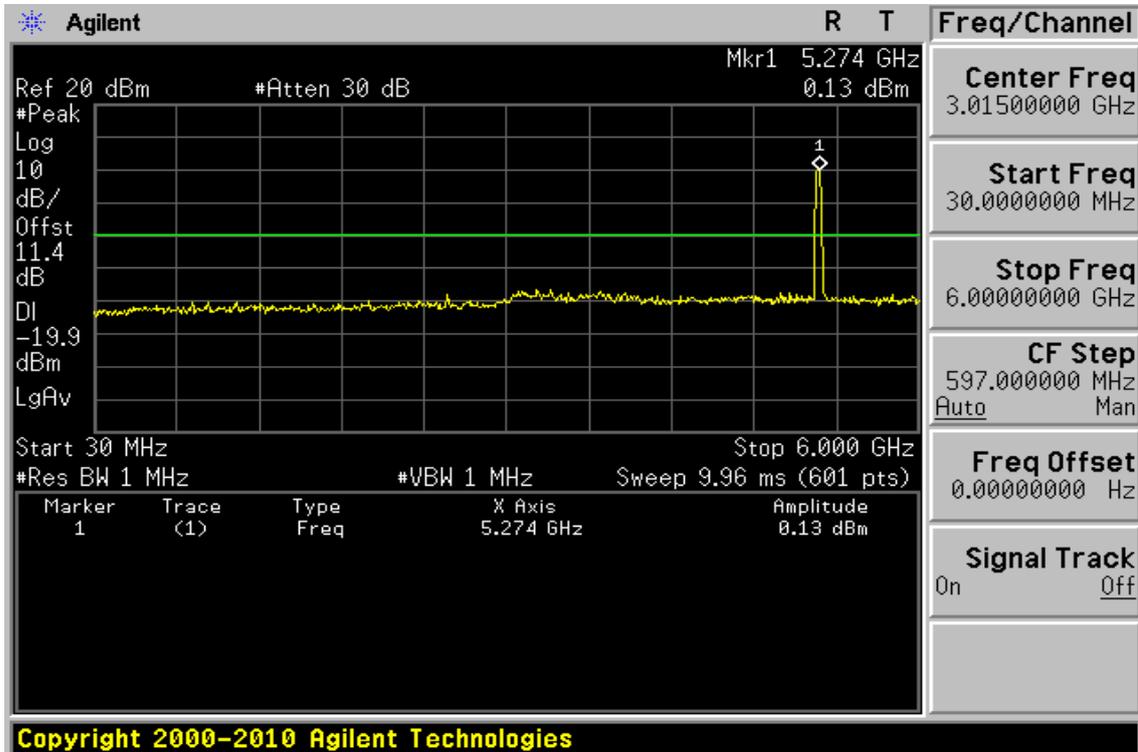
Ch High 18GHz – 40GHz



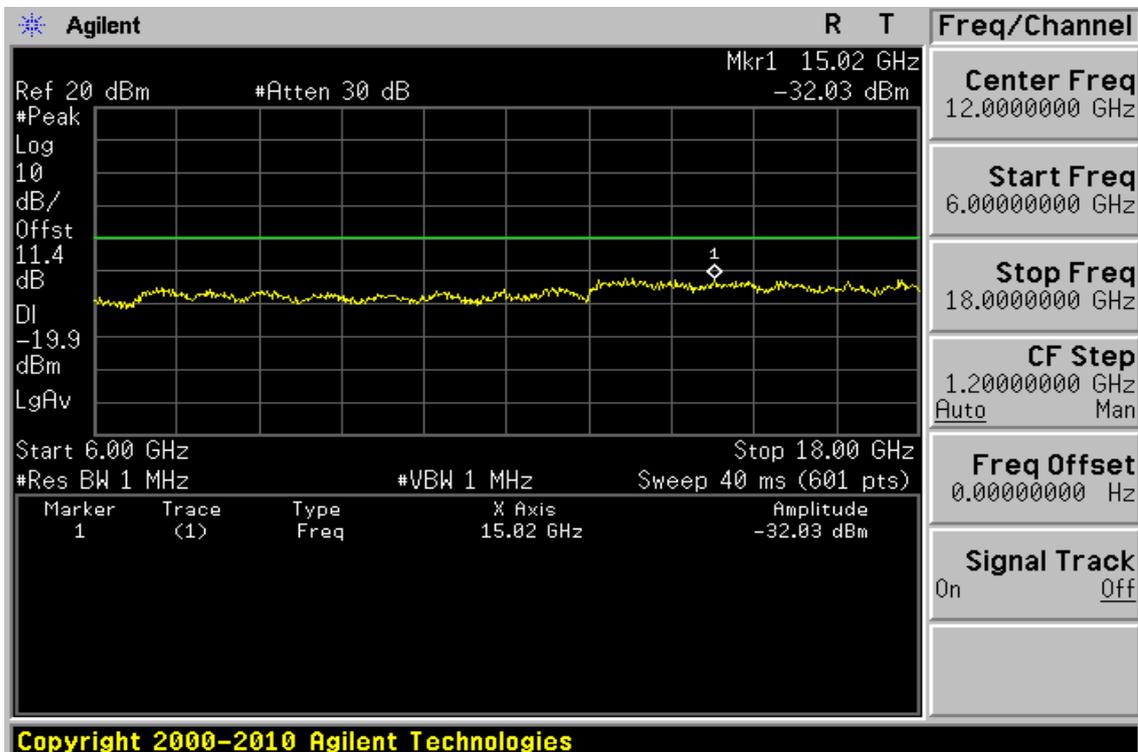
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802.11n HT40, 5250~5350 MHz
Ch Low 30MHz – 6GHz (5270 MHz)



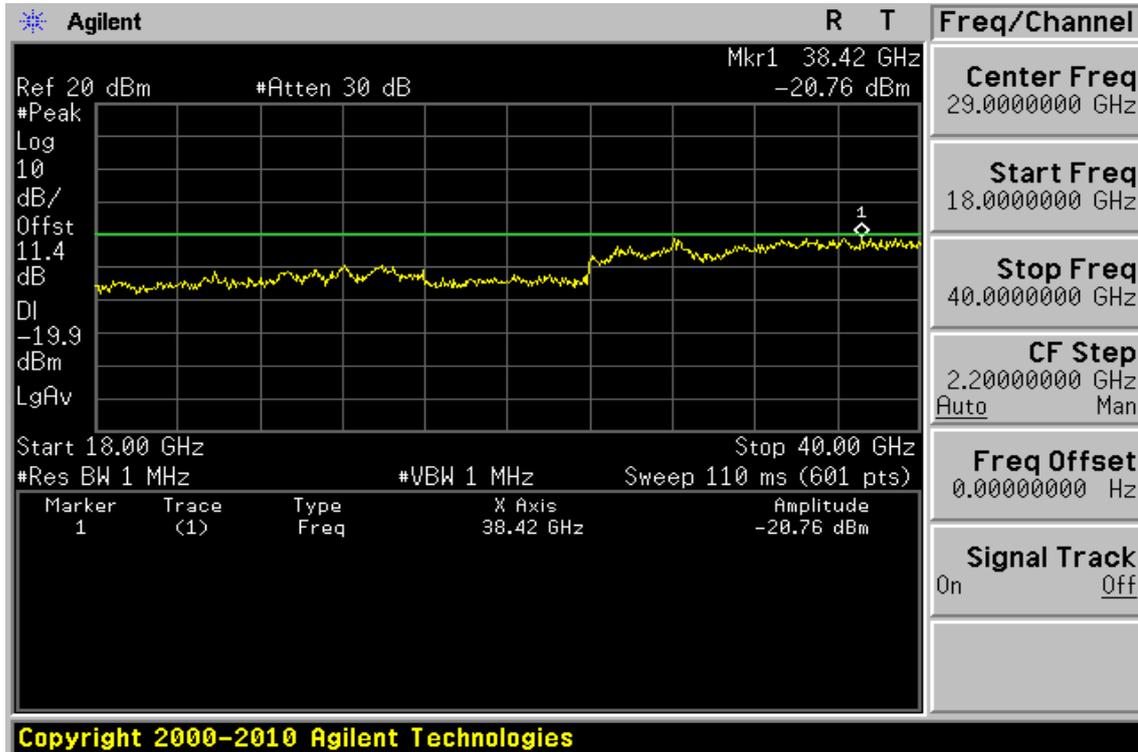
Ch Low 6GHz – 18GHz



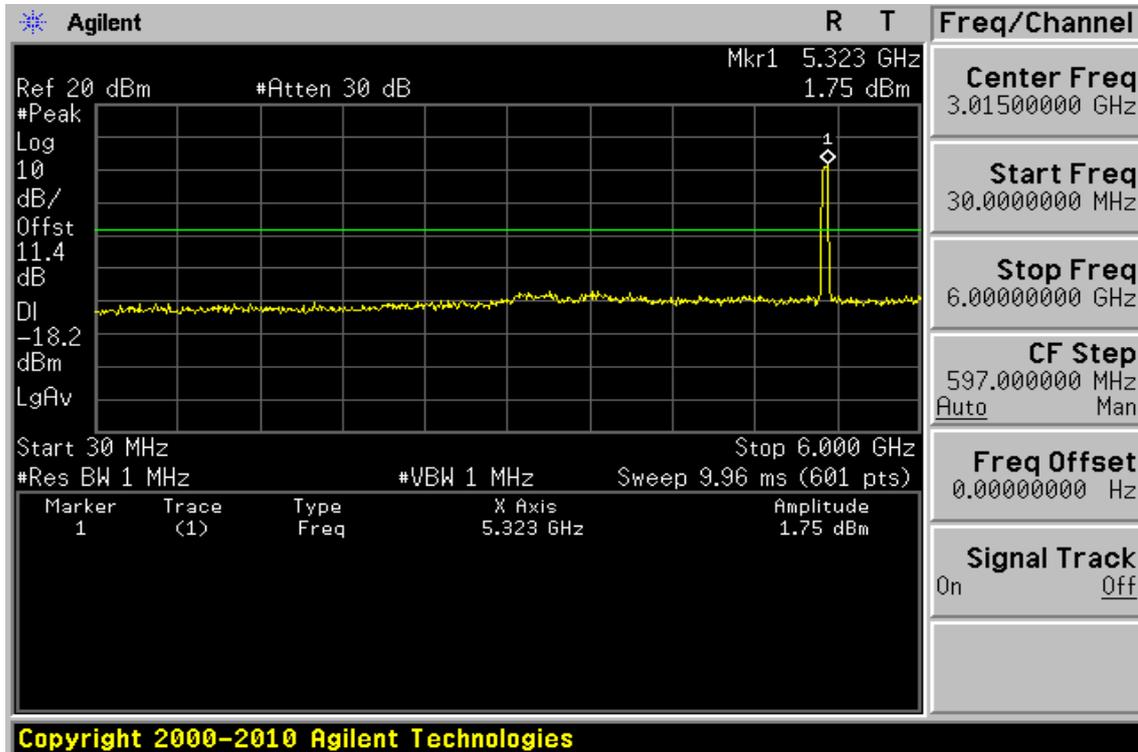
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Ch Low 18GHz – 40GHz



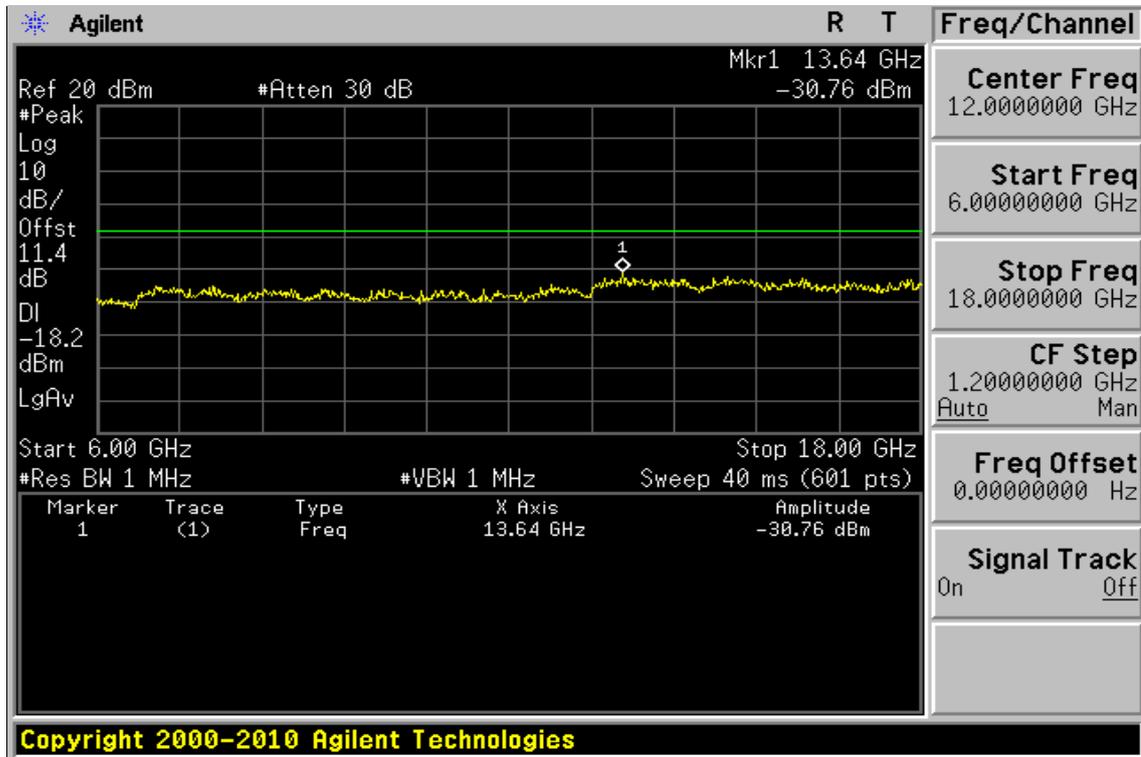
Ch High 30MHz – 6GHz (5310 MHz)



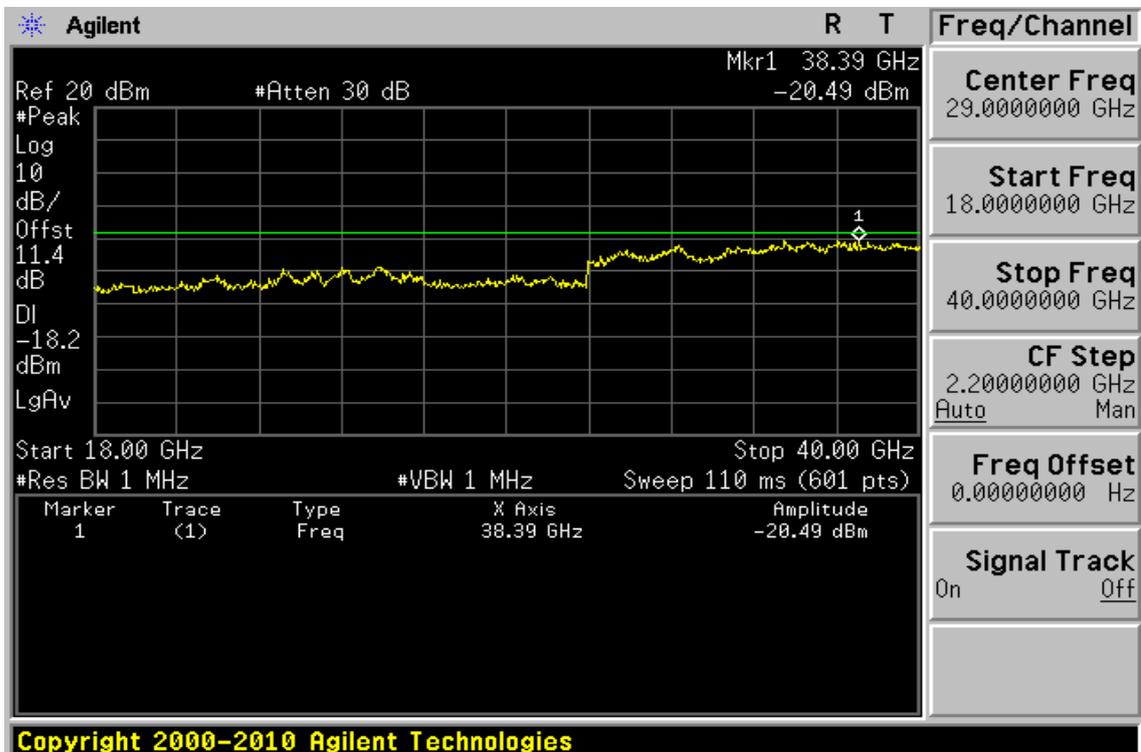
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Ch High 6GHz – 18GHz



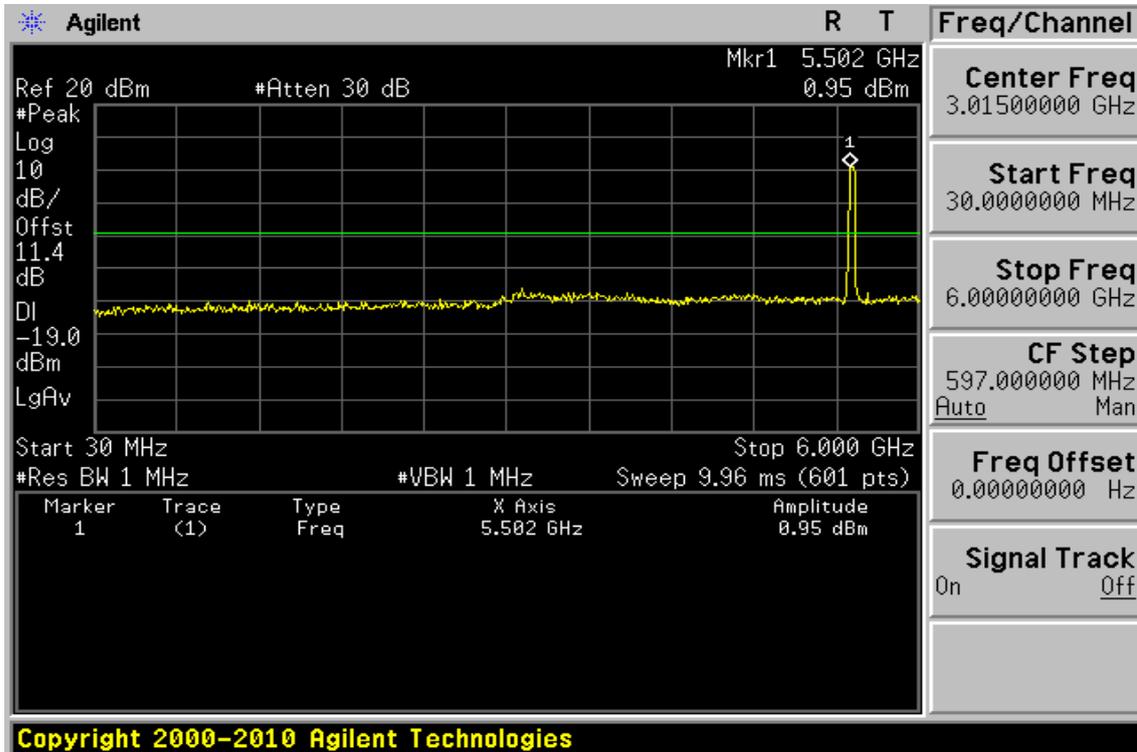
Ch High 18GHz – 40GHz



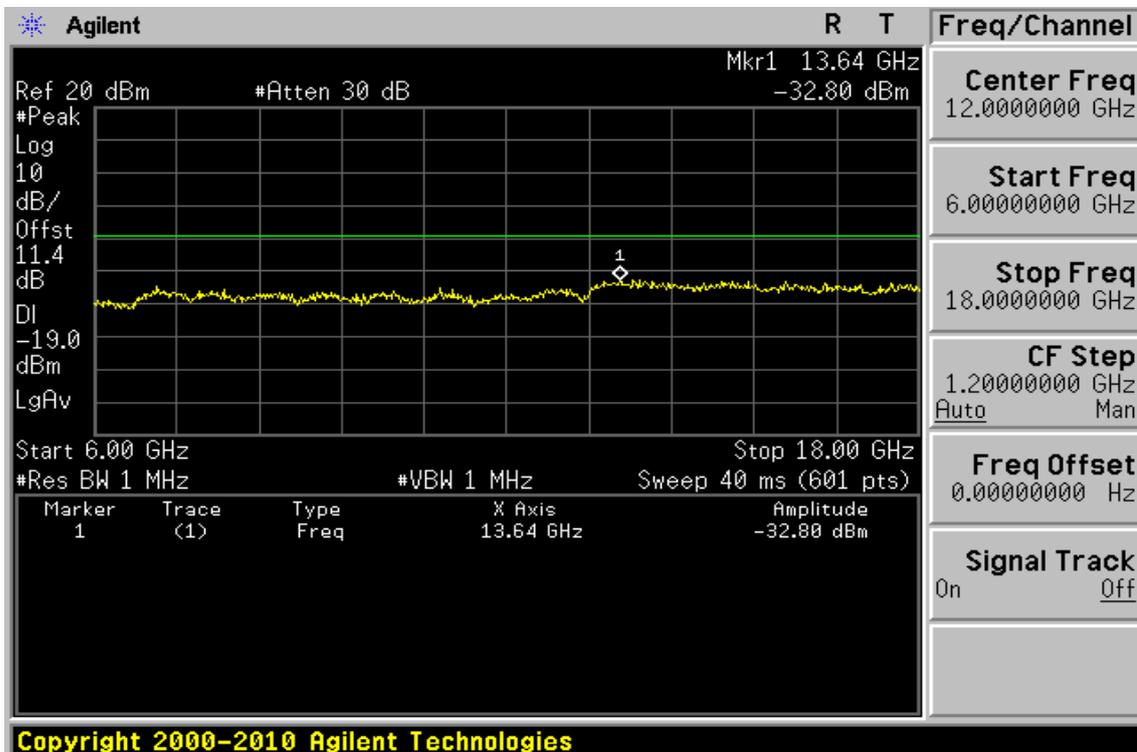
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802.11n HT40, 5470~5725 MHz
Ch Low 30MHz – 6GHz (5510 MHz)



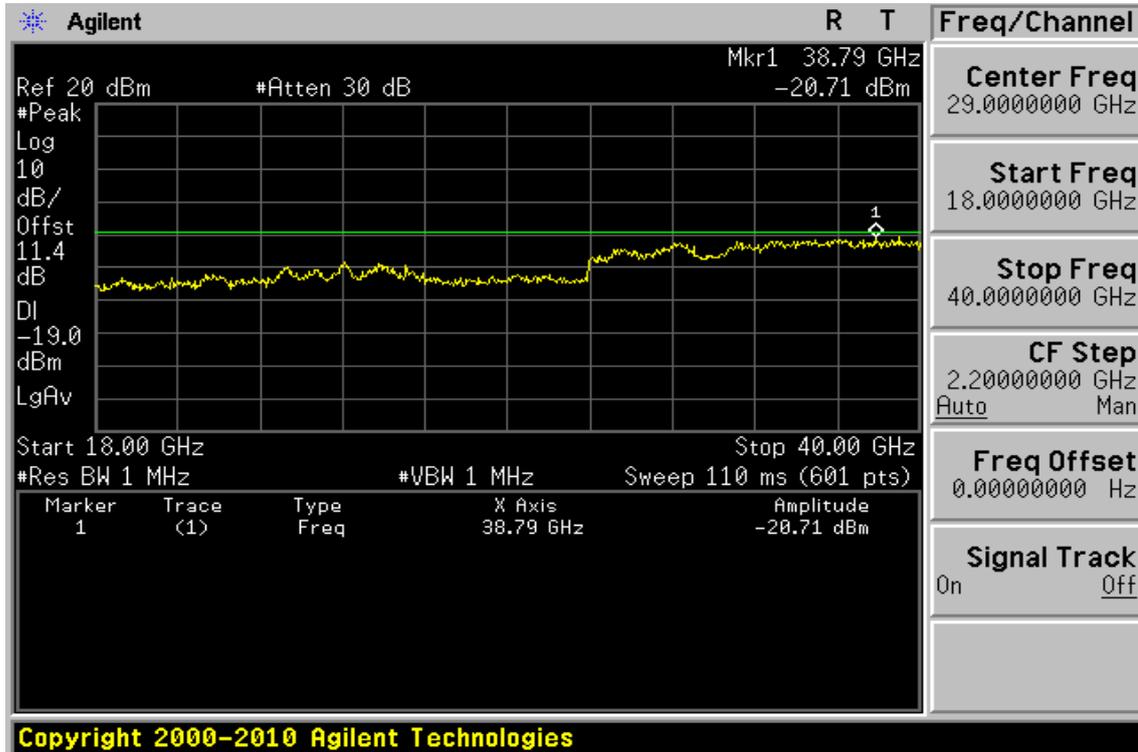
Ch Low 6GHz – 18GHz



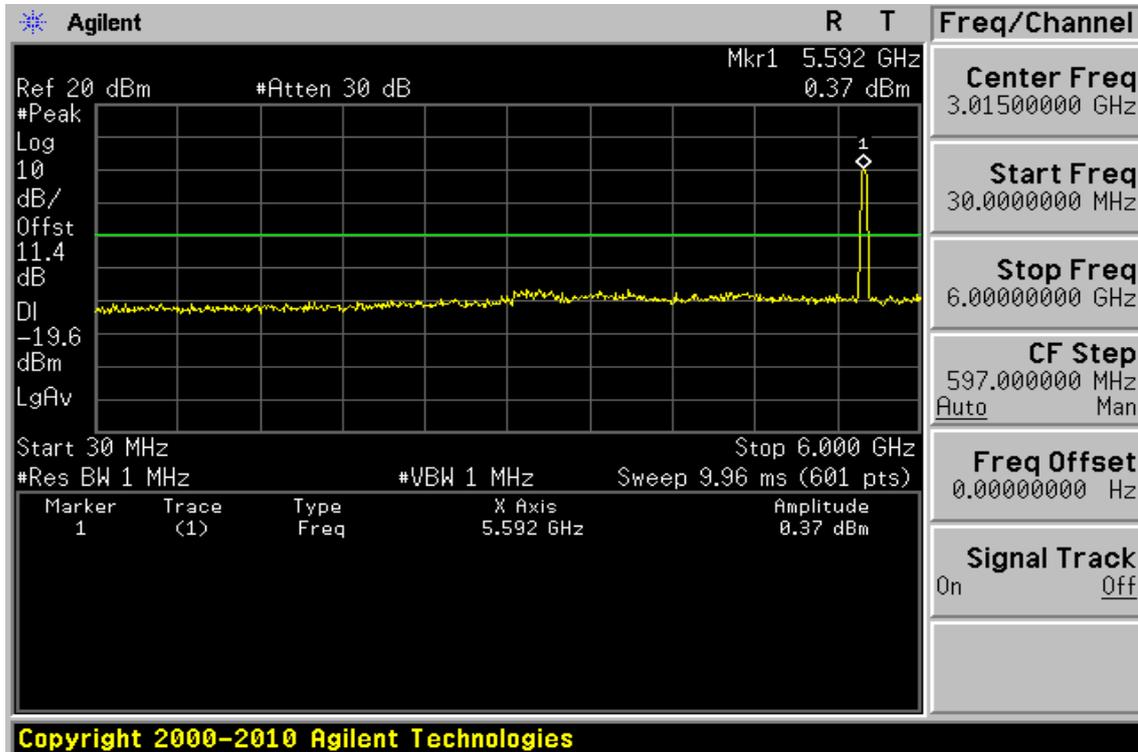
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Ch Low 18GHz – 40GHz



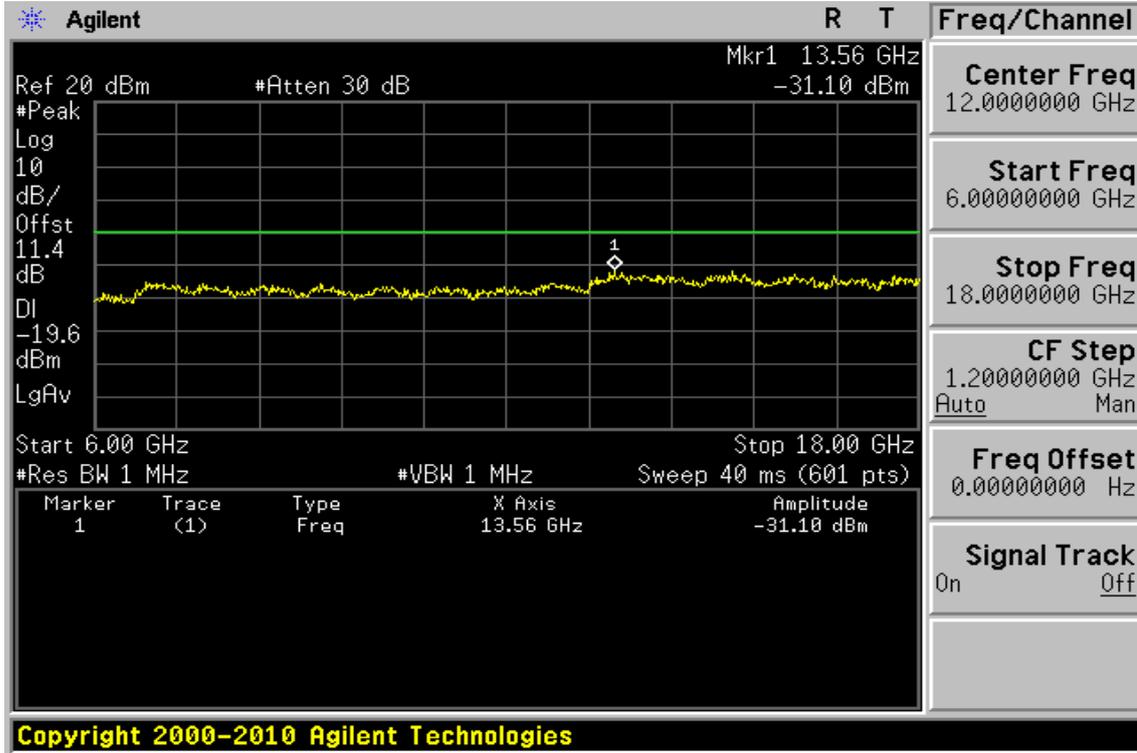
Ch Mid 30MHz – 6GHz (5590 MHz)



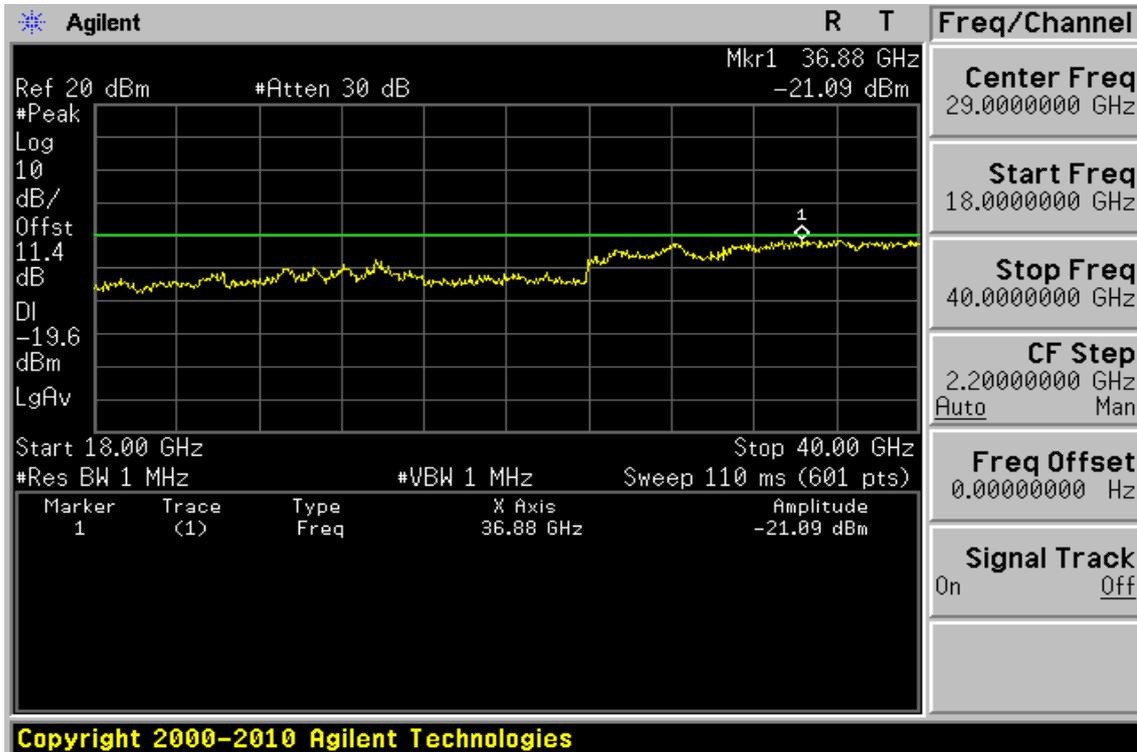
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Ch Mid 6GHz – 18GHz



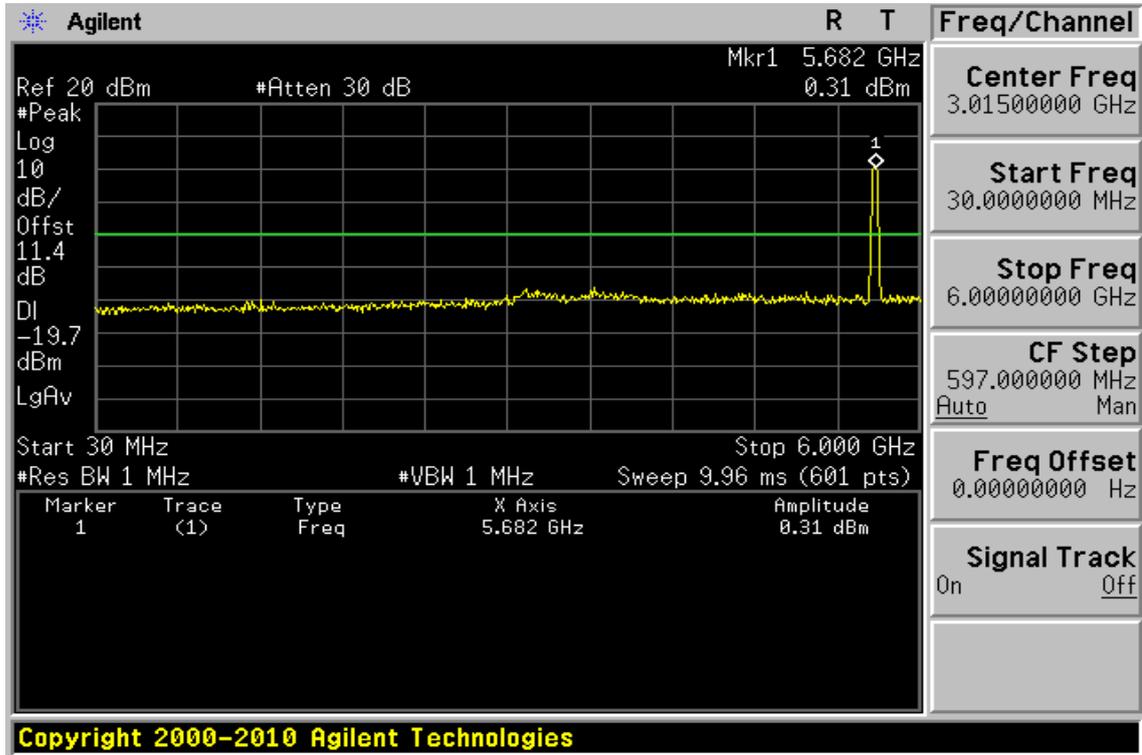
Ch Mid 18GHz – 40GHz



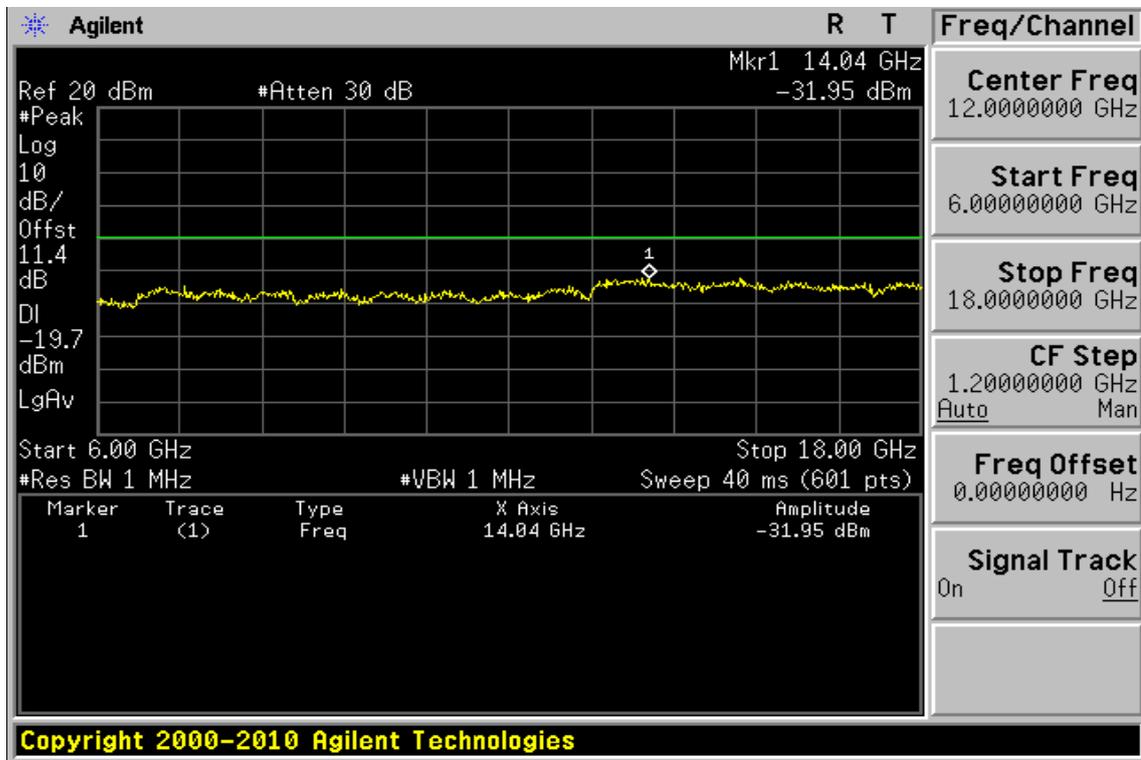
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Ch High 30MHz – 6GHz (5670 MHz)



Ch High 6GHz – 18GHz

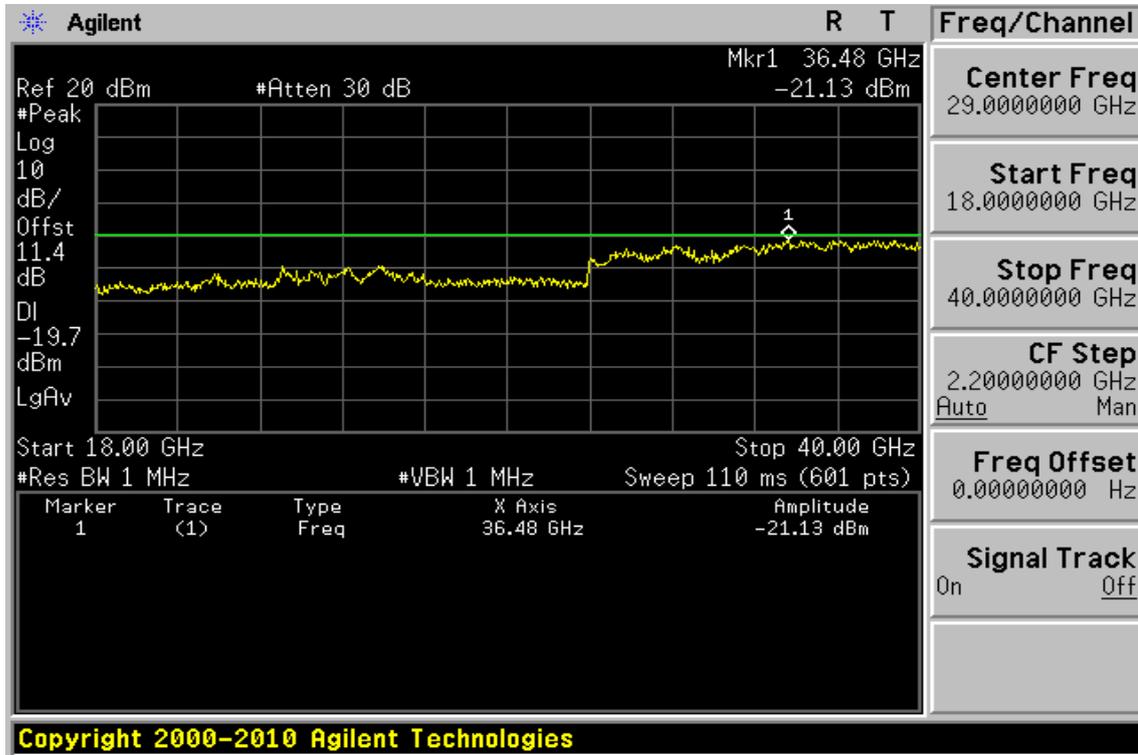


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Ch High 18GHz – 40GHz



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12. UNDESIRABLE EMISSION - RADICTED MEASUREMENT

12.1 Standard Applicable

According to §15.407(b),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
- (5) The above emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (7) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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According to RSS-210 A9.3

1. For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
2. For transmitters operating in the band 5250-5350 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Devices operating in the band 5250-5350 MHz that generate emissions in the band 5150-5250 MHz shall not exceed an out-of-band emission limit of -27 dBm/MHz e.i.r.p. in the band 5150-5250 MHz in order to operate indoor/outdoor, or alternatively shall comply with the spectral power density for operation within the band 5150-5250 MHz and shall be labelled “for indoor use only”.
3. For transmitters operating in the band 5470-5725 MHz, all emissions outside that band shall not exceed -27 dBm/MHz e.i.r.p.
4. For transmitters operating in the band 5725-5825 MHz, all emissions within the frequency range from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p. For frequencies more than 10 MHz above or below the band edges, emissions shall not exceed -27 dBm/MHz.

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§15.205- RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

FCC PART 15.209

MEASURING DISTANCE OF 3 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

12.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-1992.
2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 120Vac/60Hz power source.

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12.3 Measurement Procedure

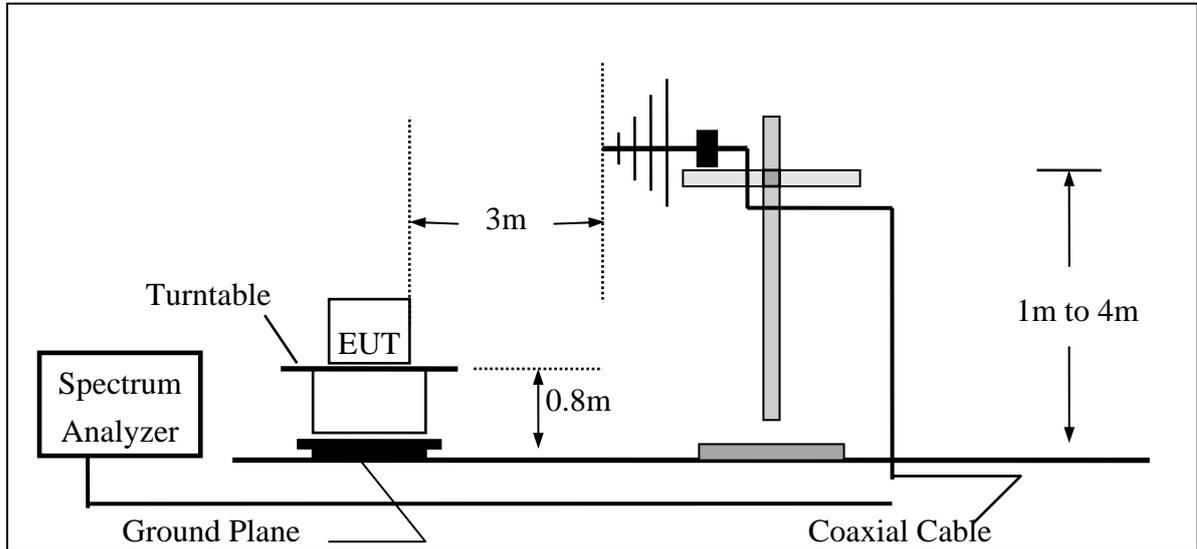
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

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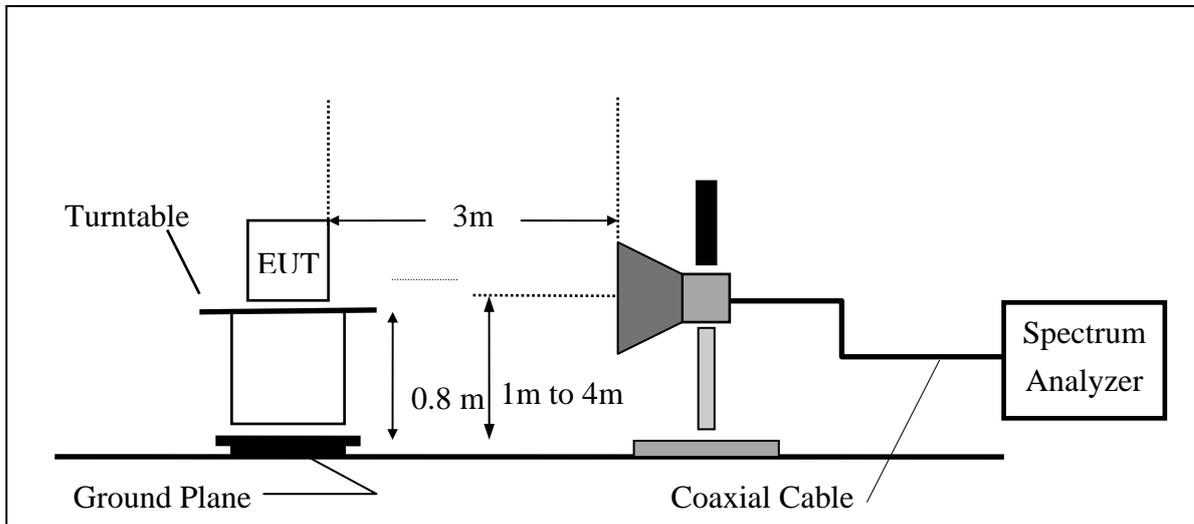
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12.4 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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12.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2012	01/03/2013
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2012	01/03/2013
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2012	01/03/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/04/2012	01/03/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2011	07/14/2012

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12.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

12.7 Measurement Result

Refer to attach tabular data sheets.

NOTE:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	49.37	-14.30	35.07	40.00	-4.93
126.03	S	Peak	41.23	-14.16	27.07	43.50	-16.43
175.50	S	Peak	40.10	-13.90	26.20	43.50	-17.30
533.43	S	Peak	43.31	-8.92	34.39	46.00	-11.61
623.64	S	Peak	30.35	-7.05	23.30	46.00	-22.70
802.12	S	Peak	30.13	-4.18	25.95	46.00	-20.05
1598.00	S	Peak	44.09	0.31	44.40	74.00	-29.60
10360.00	H	Peak	17.52	17.90	35.42	74.00	-38.58
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	49.61	-14.30	35.31	40.00	-4.69
198.78	S	Peak	44.56	-16.05	28.51	43.50	-14.99
361.74	S	Peak	36.86	-11.53	25.33	46.00	-20.67
533.43	S	Peak	39.04	-8.92	30.12	46.00	-15.88
800.18	S	Peak	35.61	-4.19	31.42	46.00	-14.58
874.87	S	Peak	29.31	-3.30	26.01	46.00	-19.99
1598.00	S	Peak	44.93	0.88	45.81	74.00	-28.19
10360.00	H	Peak	16.40	17.93	34.33	74.00	-39.67
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.85	-14.24	35.61	40.00	-4.39
125.06	S	Peak	40.16	-14.23	25.93	43.50	-17.57
175.50	S	Peak	40.41	-13.90	26.51	43.50	-16.99
533.43	S	Peak	43.88	-8.92	34.96	46.00	-11.04
620.73	S	Peak	30.97	-7.11	23.86	46.00	-22.14
796.30	S	Peak	29.04	-4.24	24.80	46.00	-21.20
1598.00	S	Peak	46.13	0.31	46.44	74.00	-27.56
10440.00	H	Peak	16.69	17.78	34.47	74.00	-39.53
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
30.97	S	Peak	48.64	-14.33	34.31	40.00	-5.69
198.78	S	Peak	43.57	-16.05	27.52	43.50	-15.98
369.50	S	Peak	36.07	-11.44	24.63	46.00	-21.37
533.43	S	Peak	37.91	-8.92	28.99	46.00	-17.01
765.26	S	Peak	35.06	-4.70	30.36	46.00	-15.64
800.18	S	Peak	35.69	-4.19	31.50	46.00	-14.50
1598.00	S	Peak	44.70	0.88	45.58	74.00	-28.42
10440.00	H	Peak	16.72	17.86	34.58	74.00	-39.42
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5240 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	50.96	-14.24	36.72	40.00	-3.28
125.06	S	Peak	40.71	-14.23	26.48	43.50	-17.02
175.50	S	Peak	39.59	-13.90	25.69	43.50	-17.81
533.43	S	Peak	43.78	-8.92	34.86	46.00	-11.14
624.61	S	Peak	30.58	-7.03	23.55	46.00	-22.45
801.15	S	Peak	31.23	-4.18	27.05	46.00	-18.95
1598.00	S	Peak	41.73	0.31	42.04	74.00	-31.96
10480.00	H	Peak	16.99	17.66	34.65	74.00	-39.35
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5240 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.40	-14.24	35.16	40.00	-4.84
199.75	S	Peak	43.42	-16.10	27.32	43.50	-16.18
354.95	S	Peak	37.16	-11.61	25.55	46.00	-20.45
533.43	S	Peak	37.34	-8.92	28.42	46.00	-17.58
623.64	S	Peak	32.28	-7.05	25.23	46.00	-20.77
799.21	S	Peak	34.67	-4.21	30.46	46.00	-15.54
1598.00	S	Peak	43.77	0.88	44.65	74.00	-29.35
10480.00	H	Peak	17.25	17.75	35.00	74.00	-39.00
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	28.33	-12.82	15.51	43.50	-27.99
239.52	S	Peak	28.13	-14.21	13.92	46.00	-32.08
333.61	S	Peak	28.23	-11.89	16.34	46.00	-29.66
533.43	S	Peak	37.52	-8.92	28.60	46.00	-17.40
623.64	S	Peak	35.71	-7.05	28.66	46.00	-17.34
799.21	S	Peak	38.03	-4.21	33.82	46.00	-12.18
1598.00	S	Peak	38.06	0.31	38.37	74.00	-35.63
10360.00	H	Peak	16.93	17.90	34.83	74.00	-39.17
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	32.66	-13.28	19.38	43.50	-24.12
345.25	S	Peak	34.39	-11.73	22.66	46.00	-23.34
533.43	S	Peak	32.31	-8.92	23.39	46.00	-22.61
623.64	S	Peak	32.98	-7.05	25.93	46.00	-20.07
759.44	S	Peak	35.16	-4.81	30.35	46.00	-15.65
799.21	S	Peak	43.33	-4.21	39.12	46.00	-6.88
1598.00	S	Peak	44.97	0.88	45.85	74.00	-28.15
10360.00	H	Peak	16.64	17.93	34.57	74.00	-39.43
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	28.99	-12.82	16.17	43.50	-27.33
345.25	S	Peak	28.33	-11.73	16.60	46.00	-29.40
533.43	S	Peak	36.57	-8.92	27.65	46.00	-18.35
623.64	S	Peak	32.79	-7.05	25.74	46.00	-20.26
759.44	S	Peak	31.50	-4.81	26.69	46.00	-19.31
798.24	S	Peak	37.04	-4.22	32.82	46.00	-13.18
1591.50	S	Peak	40.65	0.21	40.86	74.00	-33.14
10440.00	H	Peak	16.57	17.78	34.35	74.00	-39.65
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5220 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	32.74	-13.28	19.46	43.50	-24.04
345.25	S	Peak	33.68	-11.73	21.95	46.00	-24.05
533.43	S	Peak	32.82	-8.92	23.90	46.00	-22.10
623.64	S	Peak	33.27	-7.05	26.22	46.00	-19.78
759.44	S	Peak	35.28	-4.81	30.47	46.00	-15.53
802.12	S	Peak	43.11	-4.18	38.93	46.00	-7.07
1598.00	S	Peak	43.77	0.88	44.65	74.00	-29.35
10440.00	H	Peak	16.69	17.86	34.55	74.00	-39.45
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5240 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
99.84	S	Peak	32.01	-16.84	15.17	43.50	-28.33
143.49	S	Peak	28.68	-12.82	15.86	43.50	-27.64
533.43	S	Peak	36.86	-8.92	27.94	46.00	-18.06
623.64	S	Peak	34.12	-7.05	27.07	46.00	-18.93
759.44	S	Peak	29.78	-4.81	24.97	46.00	-21.03
799.21	S	Peak	38.04	-4.21	33.83	46.00	-12.17
1598.00	S	Peak	40.30	0.31	40.61	74.00	-33.39
10480.00	H	Peak	16.88	17.66	34.54	74.00	-39.46
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5240 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	32.77	-13.28	19.49	43.50	-24.01
345.25	S	Peak	33.01	-11.73	21.28	46.00	-24.72
533.43	S	Peak	32.77	-8.92	23.85	46.00	-22.15
623.64	S	Peak	33.46	-7.05	26.41	46.00	-19.59
759.44	S	Peak	35.11	-4.81	30.30	46.00	-15.70
799.21	S	Peak	42.69	-4.21	38.48	46.00	-7.52
1598.00	S	Peak	45.36	0.88	46.24	74.00	-27.76
10480.00	H	Peak	16.46	17.75	34.21	74.00	-39.79
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	49.05	-14.30	34.75	40.00	-5.25
137.67	S	Peak	36.57	-13.28	23.29	43.50	-20.21
198.78	S	Peak	40.37	-16.05	24.32	43.50	-19.18
533.43	S	Peak	35.88	-8.92	26.96	46.00	-19.04
623.64	S	Peak	29.63	-7.05	22.58	46.00	-23.42
799.21	S	Peak	29.53	-4.21	25.32	46.00	-20.68
1591.50	S	Peak	42.96	0.21	43.17	74.00	-30.83
10380.00	H	Peak	16.30	17.90	34.20	74.00	-39.80
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.51	-14.24	35.27	40.00	-4.73
182.29	S	Peak	41.87	-14.78	27.09	43.50	-16.41
224.00	S	Peak	40.84	-14.92	25.92	46.00	-20.08
406.36	S	Peak	38.21	-10.92	27.29	46.00	-18.71
623.64	S	Peak	31.92	-7.05	24.87	46.00	-21.13
798.24	S	Peak	36.99	-4.22	32.77	46.00	-13.23
1598.00	S	Peak	45.14	0.88	46.02	74.00	-27.98
10380.00	H	Peak	16.29	17.95	34.24	74.00	-39.76
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5230 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	48.78	-14.30	34.48	40.00	-5.52
137.67	S	Peak	36.38	-13.28	23.10	43.50	-20.40
198.78	S	Peak	40.90	-16.05	24.85	43.50	-18.65
533.43	S	Peak	36.05	-8.92	27.13	46.00	-18.87
623.64	S	Peak	30.44	-7.05	23.39	46.00	-22.61
798.24	S	Peak	30.18	-4.22	25.96	46.00	-20.04
1598.00	S	Peak	38.42	0.31	38.73	74.00	-35.27
10460.00	H	Peak	18.04	17.72	35.76	74.00	-38.24
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5230 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	49.20	-14.30	34.90	40.00	-5.10
182.29	S	Peak	42.41	-14.78	27.63	43.50	-15.87
403.45	S	Peak	38.44	-10.99	27.45	46.00	-18.55
533.43	S	Peak	31.84	-8.92	22.92	46.00	-23.08
623.64	S	Peak	30.68	-7.05	23.63	46.00	-22.37
802.12	S	Peak	36.72	-4.18	32.54	46.00	-13.46
1598.00	S	Peak	43.09	0.88	43.97	74.00	-30.03
10460.00	H	Peak	16.63	17.80	34.43	74.00	-39.57
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5260 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
31.94	S	Peak	49.97	-14.30	35.67	40.00	-4.33
125.06	S	Peak	40.31	-14.23	26.08	43.50	-17.42
175.50	S	Peak	39.64	-13.90	25.74	43.50	-17.76
533.43	S	Peak	40.60	-8.92	31.68	46.00	-14.32
623.64	S	Peak	30.48	-7.05	23.43	46.00	-22.57
806.00	S	Peak	29.73	-4.12	25.61	46.00	-20.39
1572.00	S	Peak	40.13	-0.08	40.05	74.00	-33.95
10520.00	H	Peak	17.03	17.62	34.65	74.00	-39.35
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5260 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
32.91	S	Peak	48.80	-14.24	34.56	40.00	-5.44
198.78	S	Peak	42.86	-16.05	26.81	43.50	-16.69
345.25	S	Peak	38.72	-11.73	26.99	46.00	-19.01
533.43	S	Peak	39.01	-8.92	30.09	46.00	-15.91
702.21	S	Peak	32.19	-5.71	26.48	46.00	-19.52
799.21	S	Peak	35.08	-4.21	30.87	46.00	-15.13
1598.00	S	Peak	43.95	0.88	44.83	74.00	-29.17
10520.00	H	Peak	17.00	17.70	34.70	74.00	-39.30
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5300 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.58	-14.24	35.34	40.00	-4.66
126.03	S	Peak	40.73	-14.16	26.57	43.50	-16.93
175.50	S	Peak	39.80	-13.90	25.90	43.50	-17.60
533.43	S	Peak	44.04	-8.92	35.12	46.00	-10.88
623.64	S	Peak	31.00	-7.05	23.95	46.00	-22.05
797.27	S	Peak	29.46	-4.24	25.22	46.00	-20.78
1591.50	S	Peak	42.23	0.21	42.44	74.00	-31.56
10600.00	H	Peak	16.65	18.34	34.99	74.00	-39.01
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5300 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.38	-14.24	35.14	40.00	-4.86
198.78	S	Peak	43.17	-16.05	27.12	43.50	-16.38
345.25	S	Peak	36.47	-11.73	24.74	46.00	-21.26
533.43	S	Peak	37.63	-8.92	28.71	46.00	-17.29
623.64	S	Peak	31.43	-7.05	24.38	46.00	-21.62
800.18	S	Peak	34.54	-4.19	30.35	46.00	-15.65
1598.00	S	Peak	43.75	0.88	44.63	74.00	-29.37
10600.00	H	Peak	16.20	18.36	34.56	74.00	-39.44
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.47	-14.24	35.23	40.00	-4.77
126.03	S	Peak	41.29	-14.16	27.13	43.50	-16.37
175.50	S	Peak	39.66	-13.90	25.76	43.50	-17.74
533.43	S	Peak	44.13	-8.92	35.21	46.00	-10.79
624.61	S	Peak	31.22	-7.03	24.19	46.00	-21.81
799.21	S	Peak	29.61	-4.21	25.40	46.00	-20.60
1598.00	S	Peak	48.23	0.31	48.54	74.00	-25.46
10640.00	H	Peak	15.89	18.76	34.65	74.00	-39.35
15960.00	H	---					
21280.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.32	-14.24	35.08	40.00	-4.92
207.51	S	Peak	42.90	-15.90	27.00	43.50	-16.50
352.04	S	Peak	36.29	-11.66	24.63	46.00	-21.37
533.43	S	Peak	37.22	-8.92	28.30	46.00	-17.70
623.64	S	Peak	32.76	-7.05	25.71	46.00	-20.29
801.15	S	Peak	35.07	-4.18	30.89	46.00	-15.11
1598.00	S	Peak	44.10	0.88	44.98	74.00	-29.02
10640.00	H	Peak	15.66	18.75	34.41	74.00	-39.59
15960.00	H	---					
21280.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5260 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
99.84	S	Peak	31.55	-16.84	14.71	43.50	-28.79
143.49	S	Peak	29.17	-12.82	16.35	43.50	-27.15
533.43	S	Peak	35.87	-8.92	26.95	46.00	-19.05
623.64	S	Peak	34.08	-7.05	27.03	46.00	-18.97
759.44	S	Peak	30.70	-4.81	25.89	46.00	-20.11
799.21	S	Peak	36.46	-4.21	32.25	46.00	-13.75
1598.00	S	Peak	43.28	0.31	43.59	74.00	-30.41
10520.00	H	Peak	16.40	17.62	34.02	74.00	-39.98
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5260 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	32.83	-13.28	19.55	43.50	-23.95
533.43	S	Peak	32.36	-8.92	23.44	46.00	-22.56
623.64	S	Peak	33.22	-7.05	26.17	46.00	-19.83
759.44	S	Peak	35.07	-4.81	30.26	46.00	-15.74
799.21	S	Peak	43.86	-4.21	39.65	46.00	-6.35
897.18	S	Peak	30.88	-2.87	28.01	46.00	-17.99
1598.00	S	Peak	43.84	0.88	44.72	74.00	-29.28
10520.00	H	Peak	16.82	17.70	34.52	74.00	-39.48
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5300 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
99.84	S	Peak	31.90	-16.84	15.06	43.50	-28.44
143.49	S	Peak	28.95	-12.82	16.13	43.50	-27.37
533.43	S	Peak	36.54	-8.92	27.62	46.00	-18.38
623.64	S	Peak	33.60	-7.05	26.55	46.00	-19.45
759.44	S	Peak	30.05	-4.81	25.24	46.00	-20.76
801.15	S	Peak	37.27	-4.18	33.09	46.00	-12.91
1598.00	S	Peak	41.79	0.31	42.10	74.00	-31.90
10600.00	H	Peak	16.23	18.34	34.57	74.00	-39.43
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5300 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
240.49	S	Peak	35.61	-14.19	21.42	46.00	-24.58
533.43	S	Peak	31.59	-8.92	22.67	46.00	-23.33
623.64	S	Peak	33.34	-7.05	26.29	46.00	-19.71
759.44	S	Peak	35.02	-4.81	30.21	46.00	-15.79
799.21	S	Peak	45.56	-4.21	41.35	46.00	-4.65
897.18	S	Peak	31.17	-2.87	28.30	46.00	-17.70
1598.00	S	Peak	46.32	0.88	47.20	74.00	-26.80
10600.00	H	Peak	16.28	18.36	34.64	74.00	-39.36
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	28.43	-12.82	15.61	43.50	-27.89
533.43	S	Peak	36.35	-8.92	27.43	46.00	-18.57
623.64	S	Peak	33.43	-7.05	26.38	46.00	-19.62
759.44	S	Peak	29.63	-4.81	24.82	46.00	-21.18
799.21	S	Peak	36.49	-4.21	32.28	46.00	-13.72
942.77	S	Peak	27.90	-2.16	25.74	46.00	-20.26
1591.50	S	Peak	40.84	0.21	41.05	74.00	-32.95
10640.00	H	Peak	15.82	18.76	34.58	74.00	-39.42
15960.00	H	---					
21280.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
345.25	S	Peak	33.33	-11.73	21.60	46.00	-24.40
533.43	S	Peak	31.41	-8.92	22.49	46.00	-23.51
623.64	S	Peak	33.73	-7.05	26.68	46.00	-19.32
759.44	S	Peak	35.77	-4.81	30.96	46.00	-15.04
793.39	S	Peak	37.66	-4.28	33.38	46.00	-12.62
800.18	S	Peak	43.41	-4.19	39.22	46.00	-6.78
1598.00	S	Peak	43.45	0.88	44.33	74.00	-29.67
10640.00	H	Peak	16.55	18.75	35.30	74.00	-38.70
15960.00	H	---					
21280.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5270 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.59	-14.24	34.35	40.00	-5.65
137.67	S	Peak	36.30	-13.28	23.02	43.50	-20.48
198.78	S	Peak	40.87	-16.05	24.82	43.50	-18.68
533.43	S	Peak	36.62	-8.92	27.70	46.00	-18.30
623.64	S	Peak	31.42	-7.05	24.37	46.00	-21.63
800.18	S	Peak	29.75	-4.19	25.56	46.00	-20.44
1598.00	S	Peak	38.02	0.31	38.33	74.00	-35.67
10540.00	H	Peak	17.11	17.83	34.94	74.00	-39.06
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5270 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	48.72	-14.30	34.42	40.00	-5.58
181.32	S	Peak	42.70	-14.68	28.02	43.50	-15.48
360.77	S	Peak	38.72	-11.53	27.19	46.00	-18.81
533.43	S	Peak	33.52	-8.92	24.60	46.00	-21.40
759.44	S	Peak	37.21	-4.81	32.40	46.00	-13.60
799.21	S	Peak	37.31	-4.21	33.10	46.00	-12.90
1604.50	S	Peak	43.03	0.98	44.01	74.00	-29.99
10540.00	H	Peak	18.01	17.90	35.91	74.00	-38.09
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5310 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
31.94	S	Peak	49.20	-14.30	34.90	40.00	-5.10
137.67	S	Peak	37.19	-13.28	23.91	43.50	-19.59
198.78	S	Peak	40.48	-16.05	24.43	43.50	-19.07
533.43	S	Peak	36.91	-8.92	27.99	46.00	-18.01
623.64	S	Peak	31.13	-7.05	24.08	46.00	-21.92
798.24	S	Peak	29.97	-4.22	25.75	46.00	-20.25
1604.50	S	Peak	38.92	0.38	39.30	74.00	-34.70
10620.00	H	Peak	15.78	18.55	34.33	74.00	-39.67
15930.00	H	---					
21240.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5310 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.68	-14.24	34.44	40.00	-5.56
181.32	S	Peak	41.72	-14.68	27.04	43.50	-16.46
359.80	S	Peak	39.55	-11.54	28.01	46.00	-17.99
533.43	S	Peak	32.00	-8.92	23.08	46.00	-22.92
623.64	S	Peak	31.19	-7.05	24.14	46.00	-21.86
750.71	S	Peak	37.41	-4.95	32.46	46.00	-13.54
1598.00	S	Peak	45.43	0.88	46.31	74.00	-27.69
10620.00	H	Peak	16.14	18.55	34.69	74.00	-39.31
15930.00	H	---					
21240.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	50.21	-14.24	35.97	40.00	-4.03
126.03	S	Peak	40.82	-14.16	26.66	43.50	-16.84
198.78	S	Peak	42.36	-16.05	26.31	43.50	-17.19
533.43	S	Peak	42.23	-8.92	33.31	46.00	-12.69
623.64	S	Peak	31.13	-7.05	24.08	46.00	-21.92
797.27	S	Peak	29.45	-4.24	25.21	46.00	-20.79
1598.00	S	Peak	44.03	0.31	44.34	74.00	-29.66
11000.00	H	Peak	16.42	19.01	35.43	74.00	-38.57
16500.00	H	---					
22000.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	50.00	-14.24	35.76	40.00	-4.24
198.78	S	Peak	44.39	-16.05	28.34	43.50	-15.16
345.25	S	Peak	36.19	-11.73	24.46	46.00	-21.54
533.43	S	Peak	39.10	-8.92	30.18	46.00	-15.82
623.64	S	Peak	31.60	-7.05	24.55	46.00	-21.45
800.18	S	Peak	36.65	-4.19	32.46	46.00	-13.54
1598.00	S	Peak	44.67	0.88	45.55	74.00	-28.45
11000.00	H	Peak	16.92	18.91	35.83	74.00	-38.17
16500.00	H	---					
22000.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5580 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	50.15	-14.24	35.91	40.00	-4.09
125.06	S	Peak	41.25	-14.23	27.02	43.50	-16.48
175.50	S	Peak	40.53	-13.90	26.63	43.50	-16.87
533.43	S	Peak	43.05	-8.92	34.13	46.00	-11.87
623.64	S	Peak	30.49	-7.05	23.44	46.00	-22.56
795.33	S	Peak	29.61	-4.26	25.35	46.00	-20.65
1611.00	S	Peak	38.08	0.46	38.54	74.00	-35.46
11160.00	H	Peak	16.12	19.60	35.72	74.00	-38.28
16740.00	H	---					
22320.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5580 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
30.97	S	Peak	48.60	-14.33	34.27	40.00	-5.73
198.78	S	Peak	43.32	-16.05	27.27	43.50	-16.23
353.98	S	Peak	37.08	-11.63	25.45	46.00	-20.55
533.43	S	Peak	35.90	-8.92	26.98	46.00	-19.02
623.64	S	Peak	31.45	-7.05	24.40	46.00	-21.60
799.21	S	Peak	36.75	-4.21	32.54	46.00	-13.46
1598.00	S	Peak	43.89	0.88	44.77	74.00	-29.23
11160.00	H	Peak	16.89	19.37	36.26	74.00	-37.74
16740.00	H	---					
22320.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5700 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.89	-14.24	35.65	40.00	-4.35
125.06	S	Peak	40.51	-14.23	26.28	43.50	-17.22
175.50	S	Peak	41.13	-13.90	27.23	43.50	-16.27
533.43	S	Peak	44.99	-8.92	36.07	46.00	-9.93
623.64	S	Peak	31.11	-7.05	24.06	46.00	-21.94
799.21	S	Peak	29.30	-4.21	25.09	46.00	-20.91
1611.00	S	Peak	38.69	0.46	39.15	74.00	-34.85
11400.00	H	Peak	16.09	20.59	36.68	74.00	-37.32
17100.00	H	---					
22800.00	H	---					

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5700 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.84	-14.24	34.60	40.00	-5.40
198.78	S	Peak	42.36	-16.05	26.31	43.50	-17.19
345.25	S	Peak	37.17	-11.73	25.44	46.00	-20.56
533.43	S	Peak	37.99	-8.92	29.07	46.00	-16.93
623.64	S	Peak	31.56	-7.05	24.51	46.00	-21.49
799.21	S	Peak	37.34	-4.21	33.13	46.00	-12.87
1598.00	S	Peak	44.05	0.88	44.93	74.00	-29.07
11400.00	H	Peak	17.09	20.35	37.44	74.00	-36.56
17100.00	H	---					
22800.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
99.84	S	Peak	30.94	-16.84	14.10	43.50	-29.40
143.49	S	Peak	28.96	-12.82	16.14	43.50	-27.36
533.43	S	Peak	36.62	-8.92	27.70	46.00	-18.30
623.64	S	Peak	33.37	-7.05	26.32	46.00	-19.68
759.44	S	Peak	30.19	-4.81	25.38	46.00	-20.62
800.18	S	Peak	36.22	-4.19	32.03	46.00	-13.97
1598.00	S	Peak	39.36	0.31	39.67	74.00	-34.33
11000.00	H	Peak	16.81	19.01	35.82	74.00	-38.18
16500.00	H	---					
22000.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	33.19	-13.28	19.91	43.50	-23.59
533.43	S	Peak	32.24	-8.92	23.32	46.00	-22.68
623.64	S	Peak	33.09	-7.05	26.04	46.00	-19.96
759.44	S	Peak	34.63	-4.81	29.82	46.00	-16.18
799.21	S	Peak	42.74	-4.21	38.53	46.00	-7.47
897.18	S	Peak	32.21	-2.87	29.34	46.00	-16.66
1598.00	S	Peak	43.57	0.88	44.45	74.00	-29.55
11000.00	H	Peak	17.71	18.91	36.62	74.00	-37.38
16500.00	H	---					
22000.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5580 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	29.01	-12.82	16.19	43.50	-27.31
533.43	S	Peak	36.11	-8.92	27.19	46.00	-18.81
623.64	S	Peak	33.92	-7.05	26.87	46.00	-19.13
759.44	S	Peak	31.58	-4.81	26.77	46.00	-19.23
799.21	S	Peak	37.84	-4.21	33.63	46.00	-12.37
939.86	S	Peak	28.20	-2.19	26.01	46.00	-19.99
1591.50	S	Peak	43.70	0.21	43.91	74.00	-30.09
11160.00	H	Peak	15.79	19.60	35.39	74.00	-38.61
16740.00	H	---					
22320.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5580 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
345.25	S	Peak	33.68	-11.73	21.95	46.00	-24.05
533.43	S	Peak	32.92	-8.92	24.00	46.00	-22.00
623.64	S	Peak	33.13	-7.05	26.08	46.00	-19.92
759.44	S	Peak	34.94	-4.81	30.13	46.00	-15.87
800.18	S	Peak	44.78	-4.19	40.59	46.00	-5.41
897.18	S	Peak	31.49	-2.87	28.62	46.00	-17.38
1598.00	S	Peak	43.98	0.88	44.86	74.00	-29.14
11160.00	H	Peak	17.30	19.37	36.67	74.00	-37.33
16740.00	H	---					
22320.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5700 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
143.49	S	Peak	28.11	-12.82	15.29	43.50	-28.21
532.46	S	Peak	41.54	-8.95	32.59	46.00	-13.41
623.64	S	Peak	33.16	-7.05	26.11	46.00	-19.89
759.44	S	Peak	31.69	-4.81	26.88	46.00	-19.12
798.24	S	Peak	38.21	-4.22	33.99	46.00	-12.01
973.81	S	Peak	28.43	-2.00	26.43	54.00	-27.57
1598.00	S	Peak	39.14	0.31	39.45	74.00	-34.55
11400.00	H	Peak	16.95	20.59	37.54	74.00	-36.46
17100.00	H	---					
22800.00	H	---					

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5700 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
137.67	S	Peak	32.53	-13.28	19.25	43.50	-24.25
345.25	S	Peak	33.36	-11.73	21.63	46.00	-24.37
533.43	S	Peak	32.41	-8.92	23.49	46.00	-22.51
623.64	S	Peak	32.40	-7.05	25.35	46.00	-20.65
759.44	S	Peak	35.56	-4.81	30.75	46.00	-15.25
799.21	S	Peak	43.59	-4.21	39.38	46.00	-6.62
1598.00	S	Peak	45.83	0.88	46.71	74.00	-27.29
11400.00	H	Peak	16.67	20.35	37.02	74.00	-36.98
17100.00	H	---					
22800.00	H	---					

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5510 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.39	-14.24	34.15	40.00	-5.85
137.67	S	Peak	36.50	-13.28	23.22	43.50	-20.28
187.14	S	Peak	40.91	-15.32	25.59	43.50	-17.91
533.43	S	Peak	36.35	-8.92	27.43	46.00	-18.57
623.64	S	Peak	30.75	-7.05	23.70	46.00	-22.30
798.24	S	Peak	29.30	-4.22	25.08	46.00	-20.92
1598.00	S	Peak	43.61	0.31	43.92	74.00	-30.08
11020.00	H	Peak	16.79	19.02	35.81	74.00	-38.19
16530.00	H	---					
22040.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5510 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	49.11	-14.24	34.87	40.00	-5.13
181.32	S	Peak	41.88	-14.68	27.20	43.50	-16.30
412.18	S	Peak	38.71	-10.80	27.91	46.00	-18.09
531.49	S	Peak	32.24	-8.97	23.27	46.00	-22.73
623.64	S	Peak	30.52	-7.05	23.47	46.00	-22.53
799.21	S	Peak	38.20	-4.21	33.99	46.00	-12.01
1598.00	S	Peak	43.57	0.88	44.45	74.00	-29.55
11020.00	H	Peak	16.53	18.91	35.44	74.00	-38.56
16530.00	H	---					
22040.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-06-08
Fundamental Frequency	:5590 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.69	-14.24	34.45	40.00	-5.55
128.94	S	Peak	40.32	-13.97	26.35	43.50	-17.15
183.26	S	Peak	40.90	-14.89	26.01	43.50	-17.49
463.59	S	Peak	32.26	-9.92	22.34	46.00	-23.66
533.43	S	Peak	38.79	-8.92	29.87	46.00	-16.13
623.64	S	Peak	32.51	-7.05	25.46	46.00	-20.54
1591.50	S	Peak	46.97	0.21	47.18	74.00	-26.82
11180.00	H	Peak	15.77	19.64	35.41	74.00	-38.59
16770.00	H	---					
22360.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5590 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
31.94	S	Peak	47.88	-14.30	33.58	40.00	-6.42
183.26	S	Peak	45.19	-14.89	30.30	43.50	-13.20
360.77	S	Peak	40.94	-11.53	29.41	46.00	-16.59
533.43	S	Peak	37.10	-8.92	28.18	46.00	-17.82
623.64	S	Peak	33.49	-7.05	26.44	46.00	-19.56
754.59	S	Peak	35.73	-4.89	30.84	46.00	-15.16
1598.00	S	Peak	42.51	0.88	43.39	74.00	-30.61
11180.00	H	Peak	15.79	19.40	35.19	74.00	-38.81
16770.00	H	---					
22360.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5670 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.98	-14.24	34.74	40.00	-5.26
137.67	S	Peak	36.59	-13.28	23.31	43.50	-20.19
187.14	S	Peak	40.01	-15.32	24.69	43.50	-18.81
533.43	S	Peak	36.68	-8.92	27.76	46.00	-18.24
623.64	S	Peak	30.02	-7.05	22.97	46.00	-23.03
799.21	S	Peak	29.72	-4.21	25.51	46.00	-20.49
1598.00	S	Peak	42.40	0.31	42.71	74.00	-31.29
11340.00	H	Peak	15.38	20.37	35.75	74.00	-38.25
17010.00	H	---					
22680.00	H	---					

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5670 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

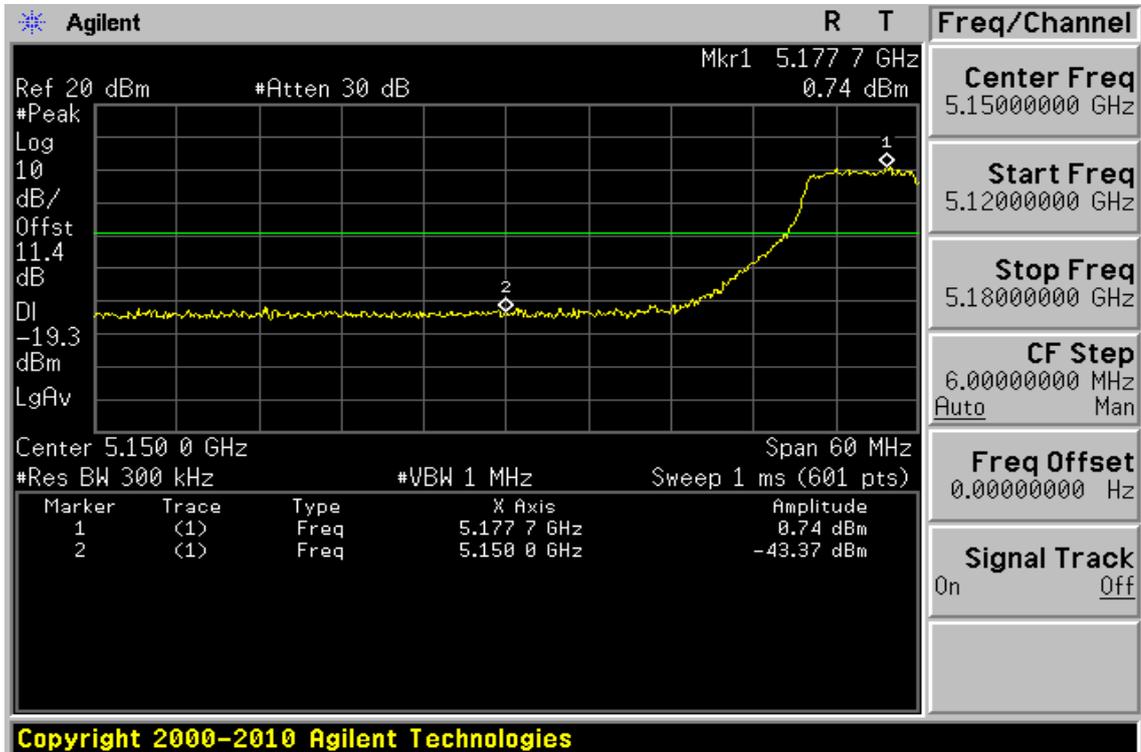
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
32.91	S	Peak	48.72	-14.24	34.48	40.00	-5.52
182.29	S	Peak	41.73	-14.78	26.95	43.50	-16.55
363.68	S	Peak	39.40	-11.50	27.90	46.00	-18.10
533.43	S	Peak	35.87	-8.92	26.95	46.00	-19.05
753.62	S	Peak	37.56	-4.91	32.65	46.00	-13.35
798.24	S	Peak	35.66	-4.22	31.44	46.00	-14.56
1598.00	S	Peak	43.92	0.88	44.80	74.00	-29.20
11340.00	H	Peak	16.60	20.11	36.71	74.00	-37.29
17010.00	H	---					
22680.00	H	---					

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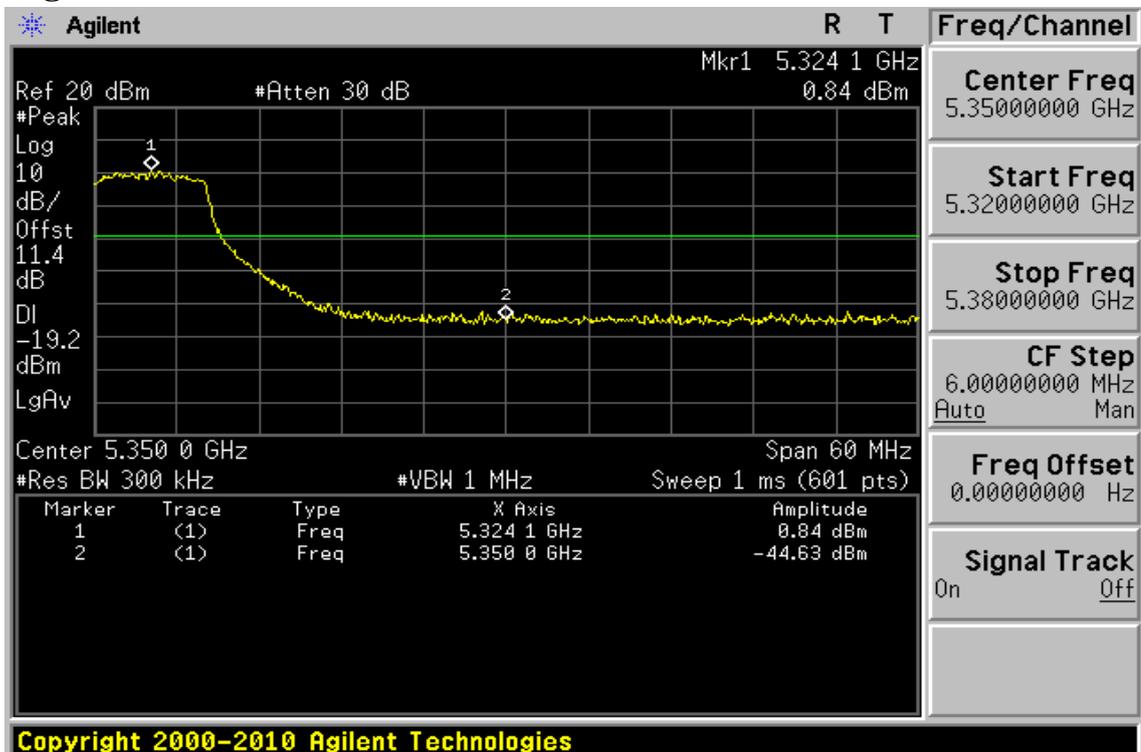
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802.11a, 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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Radiated Emission:

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	31.91	10.38	42.29	54.00	-11.71
5150.00	E	Peak	43.86	10.38	54.24	74.00	-19.76

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	32.62	10.48	43.10	54.00	-10.90
5150.00	E	Peak	44.57	10.48	55.05	74.00	-18.95

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Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	34.22	10.70	44.92	54.00	-9.08
5350.00	E	Peak	45.76	10.70	56.46	74.00	-17.54

Operation Band	:802.11a	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

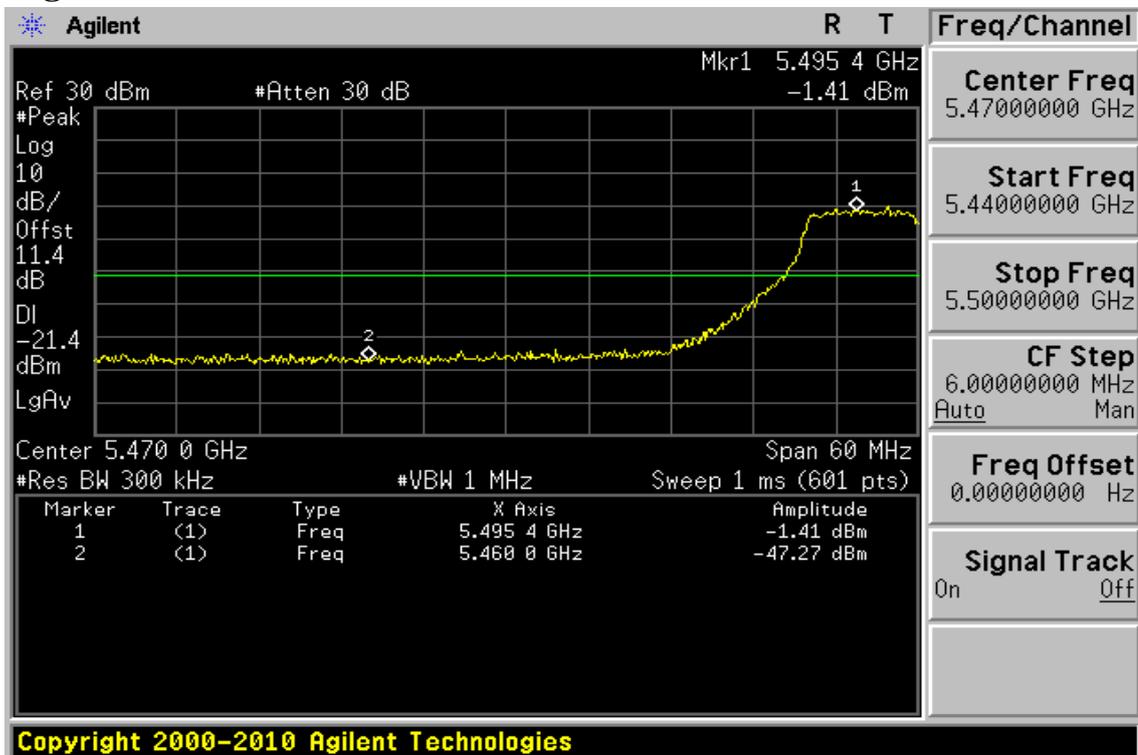
“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	34.52	11.00	45.52	54.00	-8.48
5350.00	E	Peak	47.09	11.00	58.09	74.00	-15.91

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802.11a, 5470~5725 MHz
Band Edges Test Data CH 5500



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Radiated Emission:

Operation Band	:802.11a	Test Date	:2012-06-15
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5460.00	E	Average	33.87	10.84	44.71	54.00	-9.29
5460.00	E	Peak	44.18	10.84	55.02	74.00	-18.98

Operation Band	:802.11a	Test Date	:2012-06-15
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

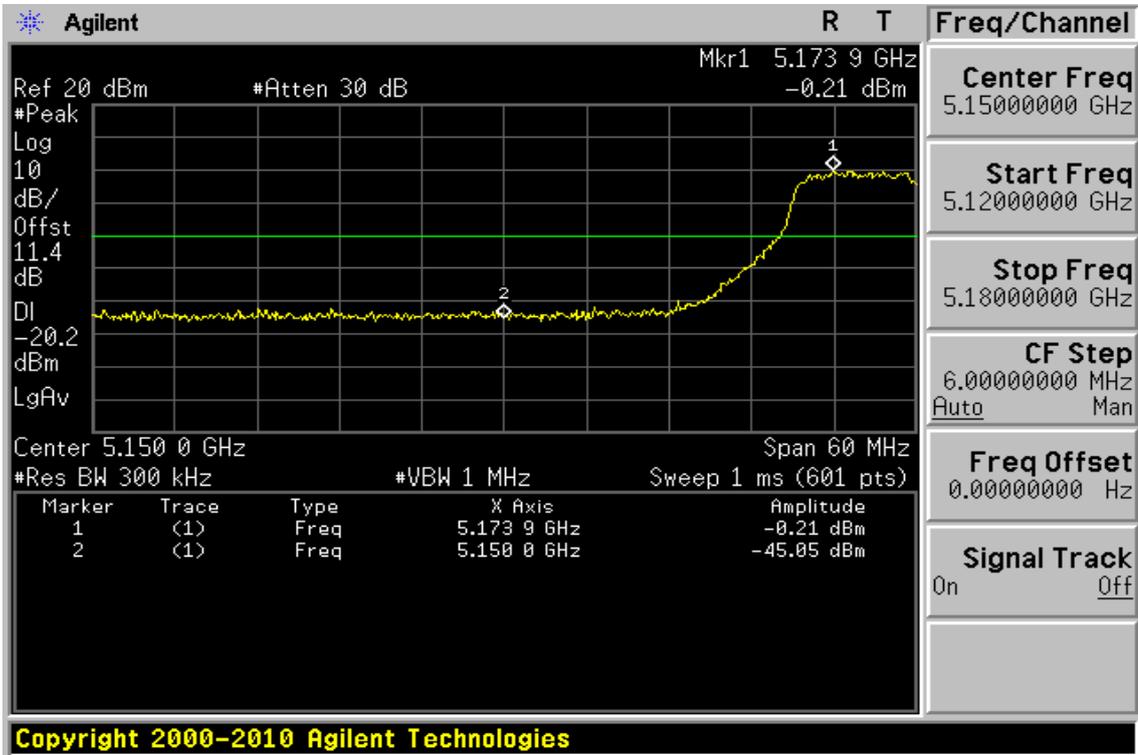
“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5460.00	E	Average	33.57	11.14	44.71	54.00	-9.29
5460.00	E	Peak	44.54	11.14	55.68	74.00	-18.32

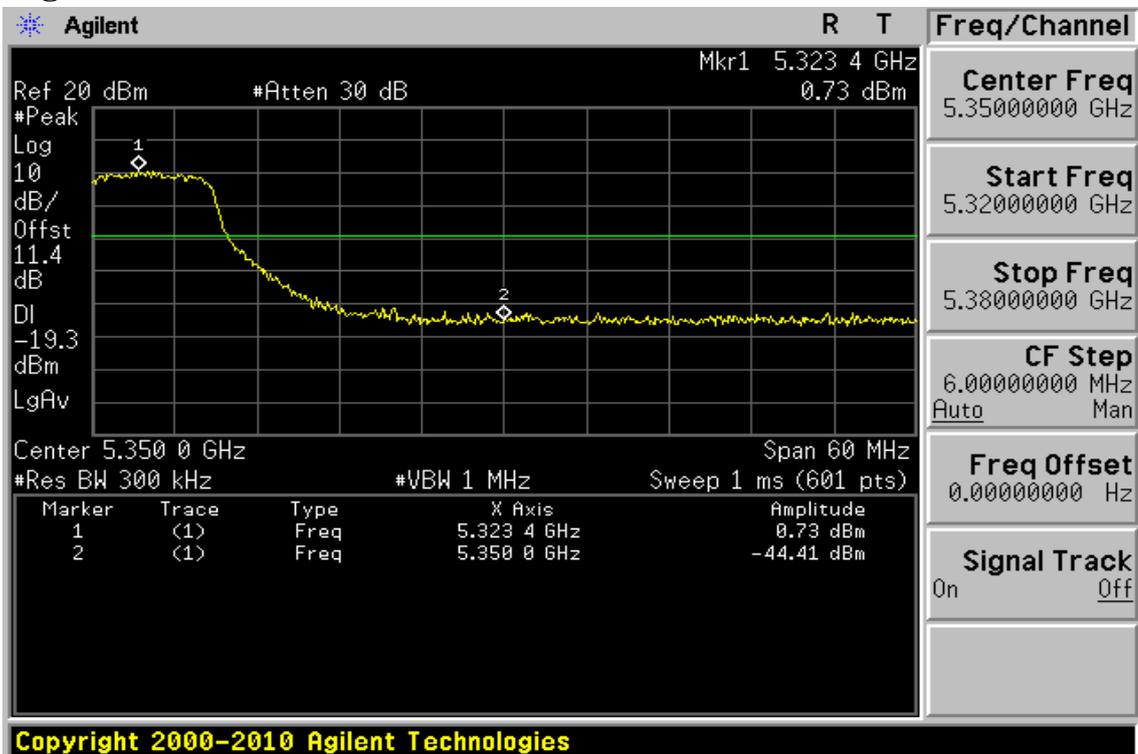
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802.11n HT20, 5150~5350 MHz Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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Radiated Emission: 802.11n HT20

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	32.11	10.38	42.49	54.00	-11.51
5150.00	E	Peak	43.68	10.38	54.06	74.00	-19.94

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	32.94	10.48	43.42	54.00	-10.58
5150.00	E	Peak	44.63	10.48	55.11	74.00	-18.89

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Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	34.16	10.70	44.86	54.00	-9.14
5350.00	E	Peak	45.76	10.70	56.46	74.00	-17.54

Operation Band	:802.11a 20M	Test Date	:2012-06-08
Fundamental Frequency	:5320 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

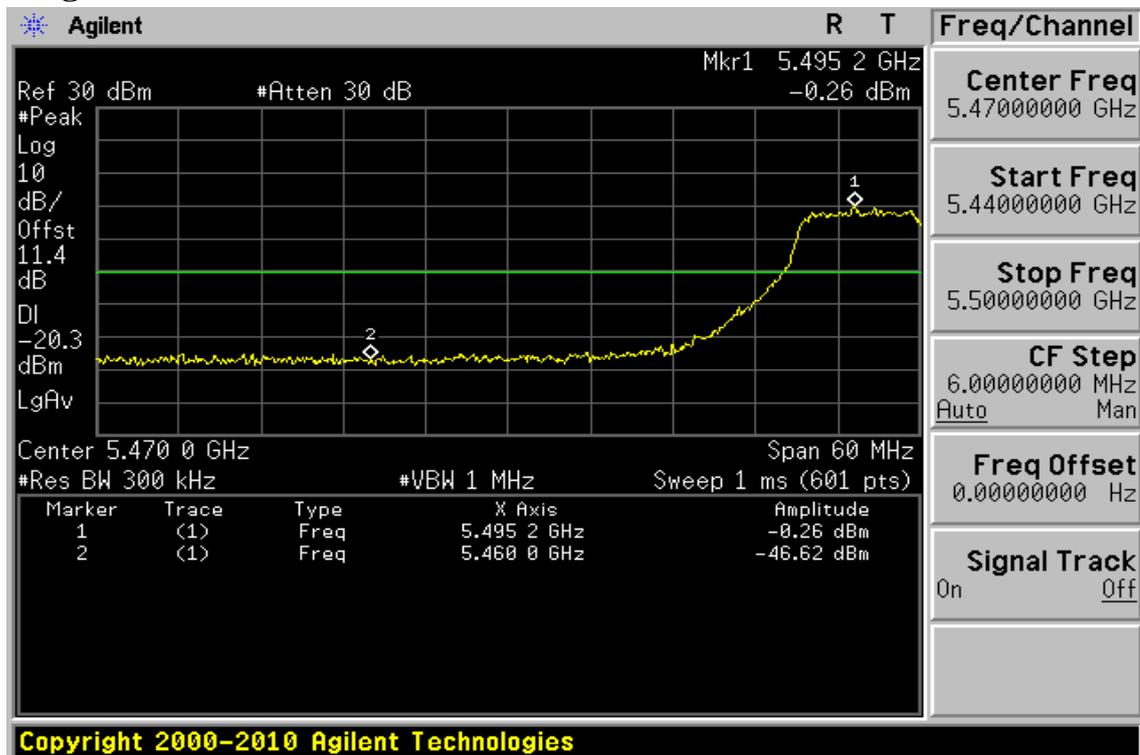
“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	34.05	11.00	45.05	54.00	-8.95
5350.00	E	Peak	45.80	11.00	56.80	74.00	-17.20

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802.11n HT20, 5470~5725 MHz
Band Edges Test Data CH 5500



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Radiated Emission: 802.11n HT20

Operation Band	:802.11a 20M	Test Date	:2012-06-15
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5460.00	E	Average	33.99	10.84	44.83	54.00	-9.17
5460.00	E	Peak	43.37	10.84	54.21	74.00	-19.79

Operation Band	:802.11a 20M	Test Date	:2012-06-15
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

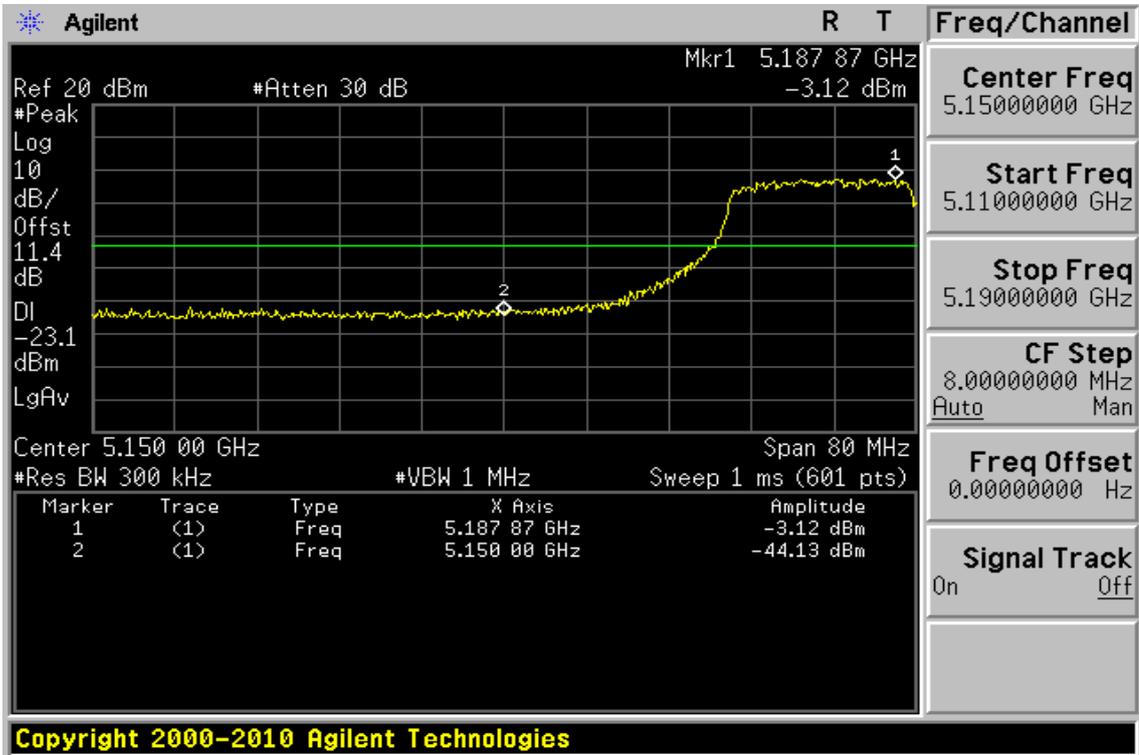
“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5460.00	E	Average	33.88	11.14	45.02	54.00	-8.98
5460.00	E	Peak	44.88	11.14	56.02	74.00	-17.98

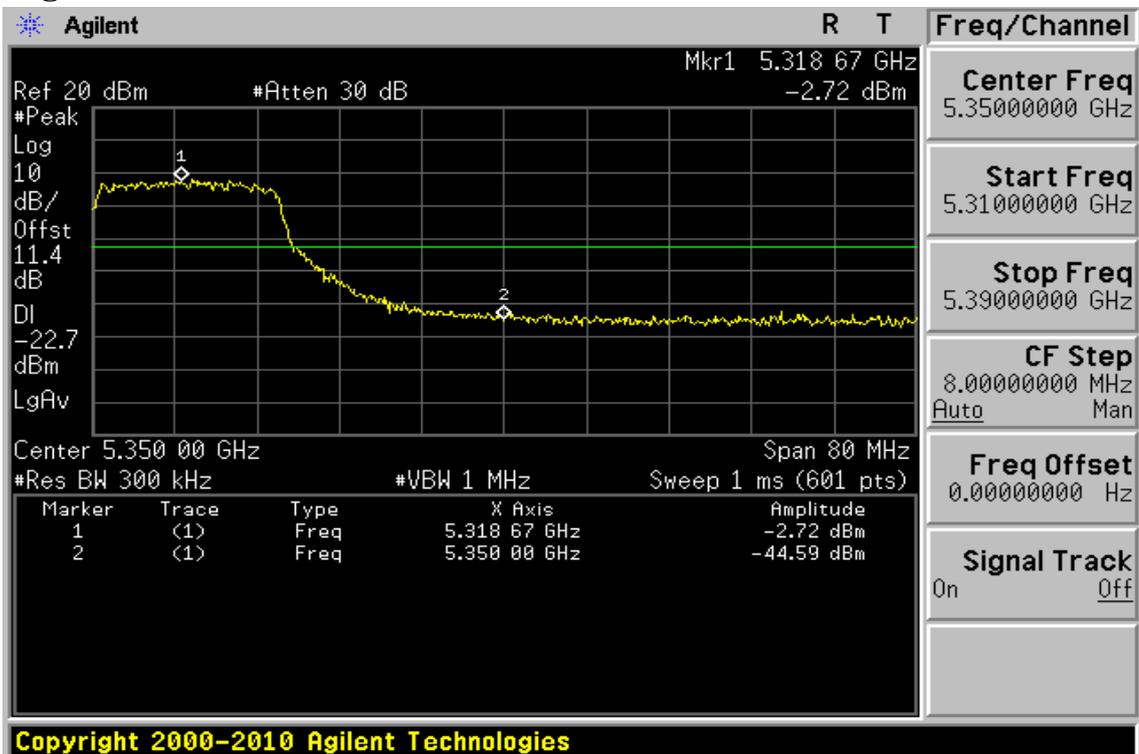
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802.11n HT40, 5150~5350 MHz
Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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Radiated Emission: 802.11n HT40

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	32.67	10.38	43.05	54.00	-10.95
5150.00	E	Peak	45.21	10.38	55.59	74.00	-18.41

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Safe Margin dB
5150.00	E	Average	33.04	10.48	43.52	54.00	-10.48
5150.00	E	Peak	45.11	10.48	55.59	74.00	-18.41

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Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5310 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	35.53	10.70	46.23	54.00	-7.77
5350.00	E	Peak	47.17	10.70	57.87	74.00	-16.13

Operation Band	:802.11a 40M	Test Date	:2012-06-08
Fundamental Frequency	:5310 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX HIGH BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

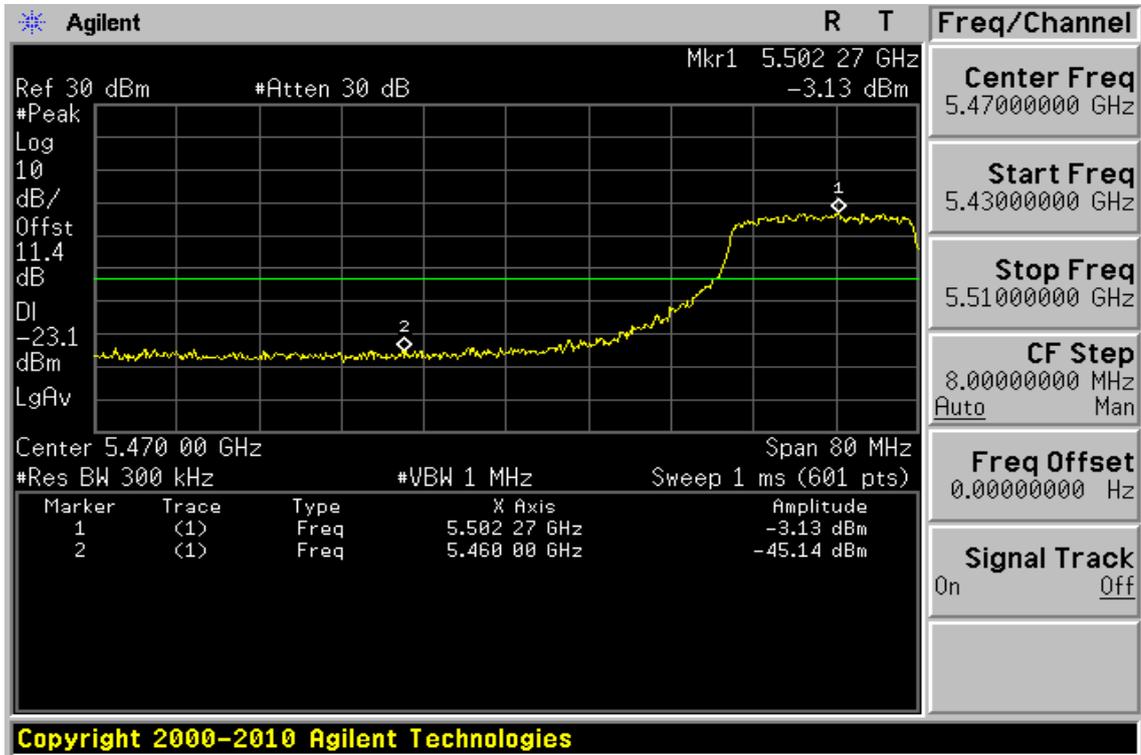
“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5350.00	E	Average	34.88	11.00	45.88	54.00	-8.12
5350.00	E	Peak	47.83	11.00	58.83	74.00	-15.17

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802.11n HT40, 5470~5725 MHz
Band Edges Test Data CH 5510



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Radiated Emission: 802.11n HT40

Operation Band	:802.11a 40M	Test Date	:2012-06-15
Fundamental Frequency	:5510 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5460.00	E	Average	34.03	10.84	44.87	54.00	-9.13
5460.00	E	Peak	44.73	10.84	55.57	74.00	-18.43

Operation Band	:802.11a 40M	Test Date	:2012-06-15
Fundamental Frequency	:5510 MHz	Temp./Humi.	:24.8 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E1 plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
5460.00	E	Average	34.76	11.14	45.90	54.00	-8.10
5460.00	E	Peak	45.11	11.14	56.25	74.00	-17.75

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13. TRANSMISSION IN THE ABSENCE OF DATA

13.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

According to RSS-210 A9.4(4)

The device shall automatically discontinue transmission in case of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

13.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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14. FREQUENCY STABILITY

14.1 Standard Applicable

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

According to A9.5

(5) The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.

14.2 Result:

No non-compliance noted:

±20ppm ppm was defined in product specification.

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15. ANTENNA REQUIREMENT

15.1 Standard Applicable

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 2.85dBi for 2.4GHz, 2.54dBi (5150MHz–5250MHz), 2.13dBi (5250MHz–5350MHz), 2.27dBi (5470MHz–5725MHz) and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec.for details.

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16. TPC and DFS MEASUREMENT

16.1 TPC: Standard Applicable

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

16.1.1. Result: N/A, The output power is less than 500mW.

16.2 DFS: Standard Applicable

According to §15.407(h)(2), Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection.

16.2.1.Limit

Table 1:Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Yes	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required

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Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Channel Closing Transmission time	Yes	Yes	Yes
Channel Move time	Yes	Yes	Yes

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

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Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the 99% power bandwidth See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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Table 5: Radar Test Waveforms

Short Pulse Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Long Pulse Radar

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Frequency Hopping Radar

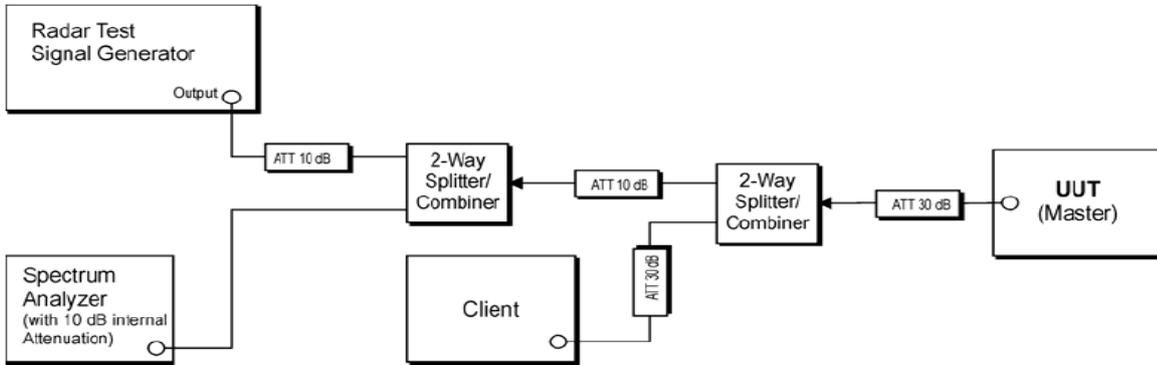
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

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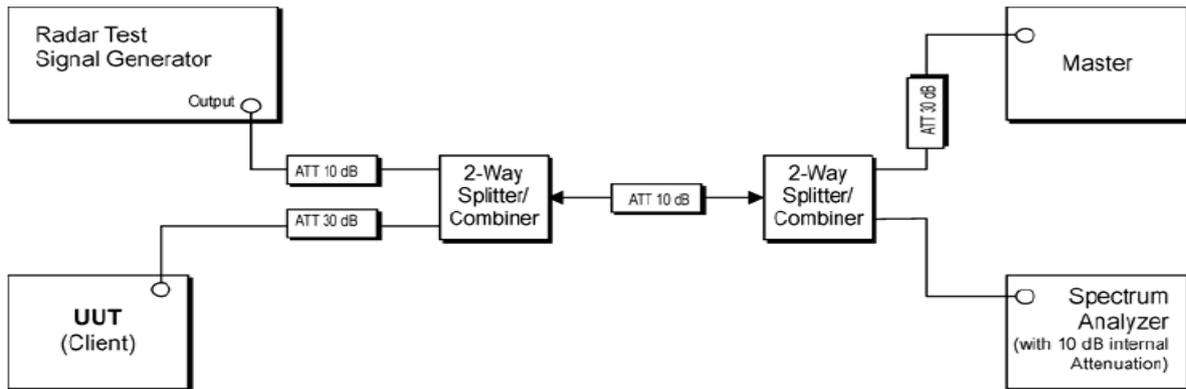
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16.2.2. Test Setup

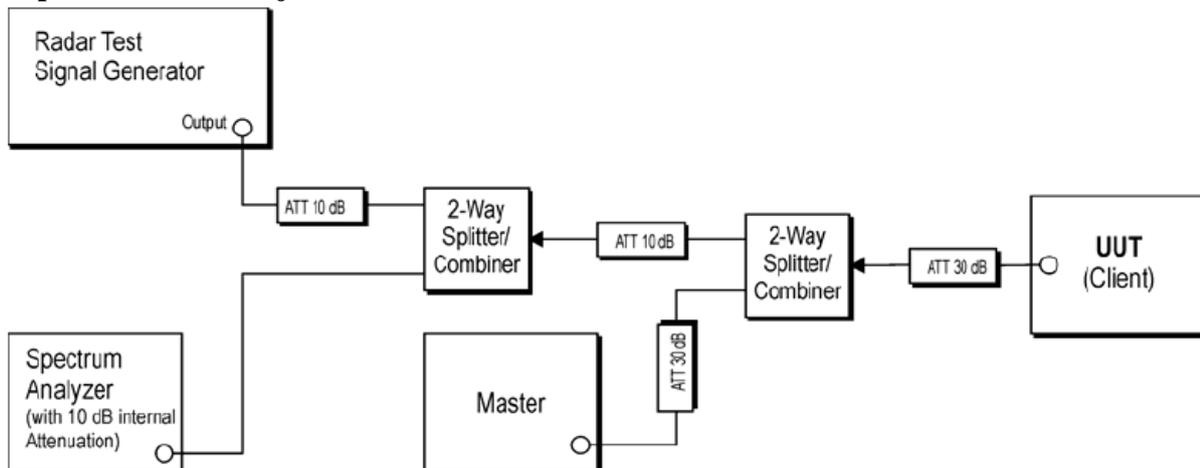
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



16.2.3. Test Equipment Used:

Refer to section 7.3 for details.

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16.2.4. Description of EUT :

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 2.54dBi in the 5GHz Band.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is $>23\text{dBm(EIRP)}$. therefore the required interference threshold level is -64dBm . after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is $-64+6=-58$, and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

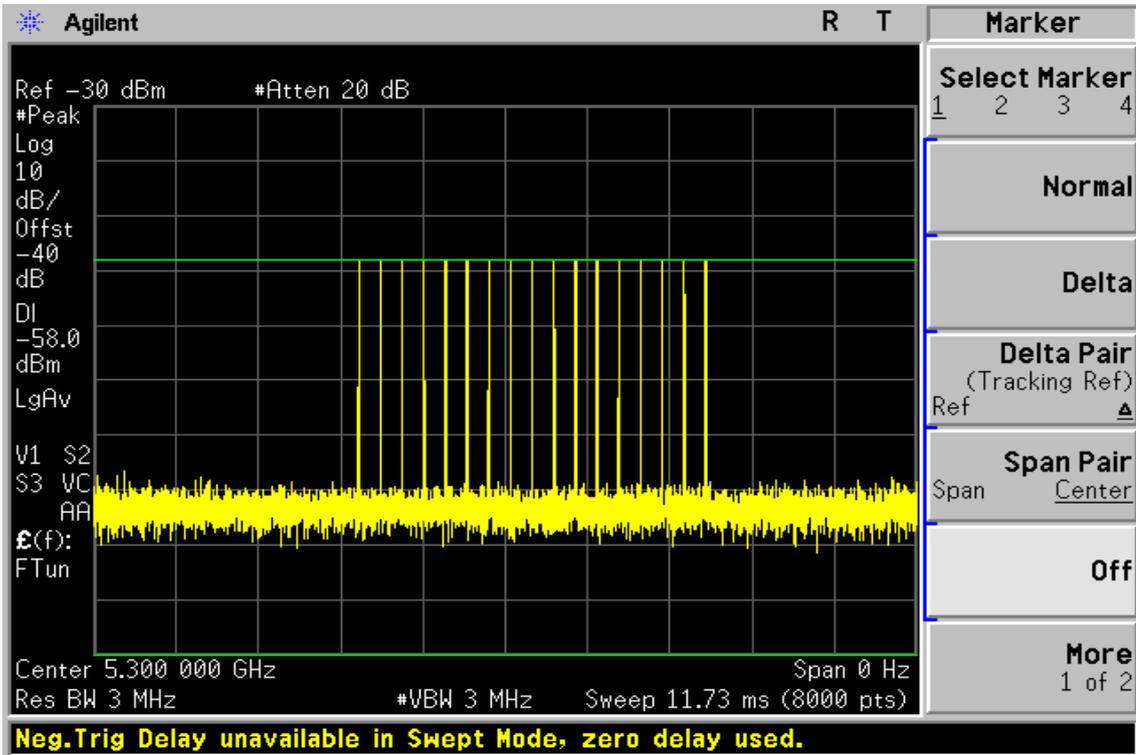
16.2.5. Test results

Refer to next page for plots.

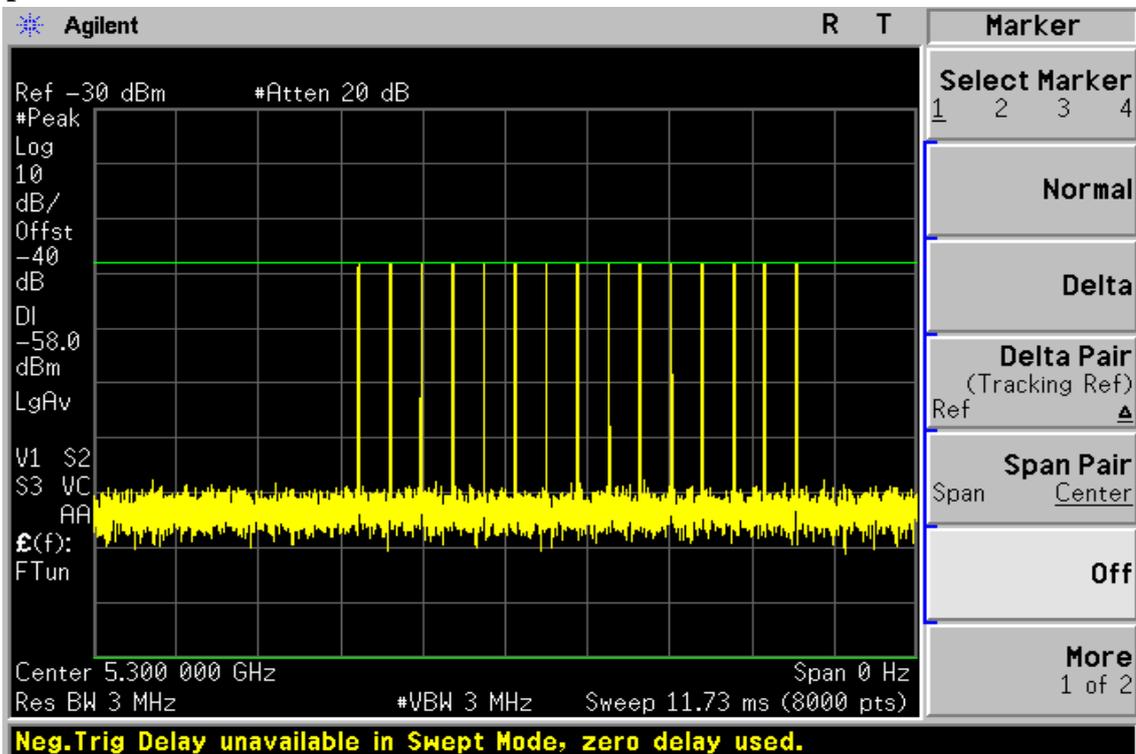
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Radar type 3



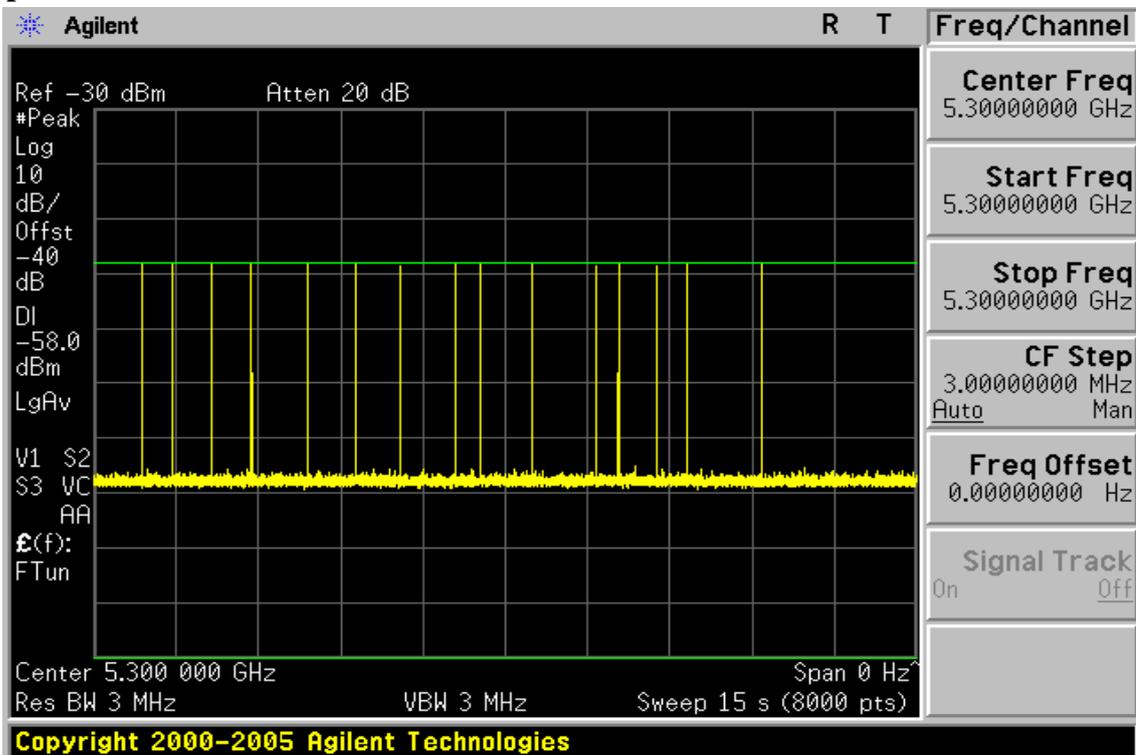
Radar type 4



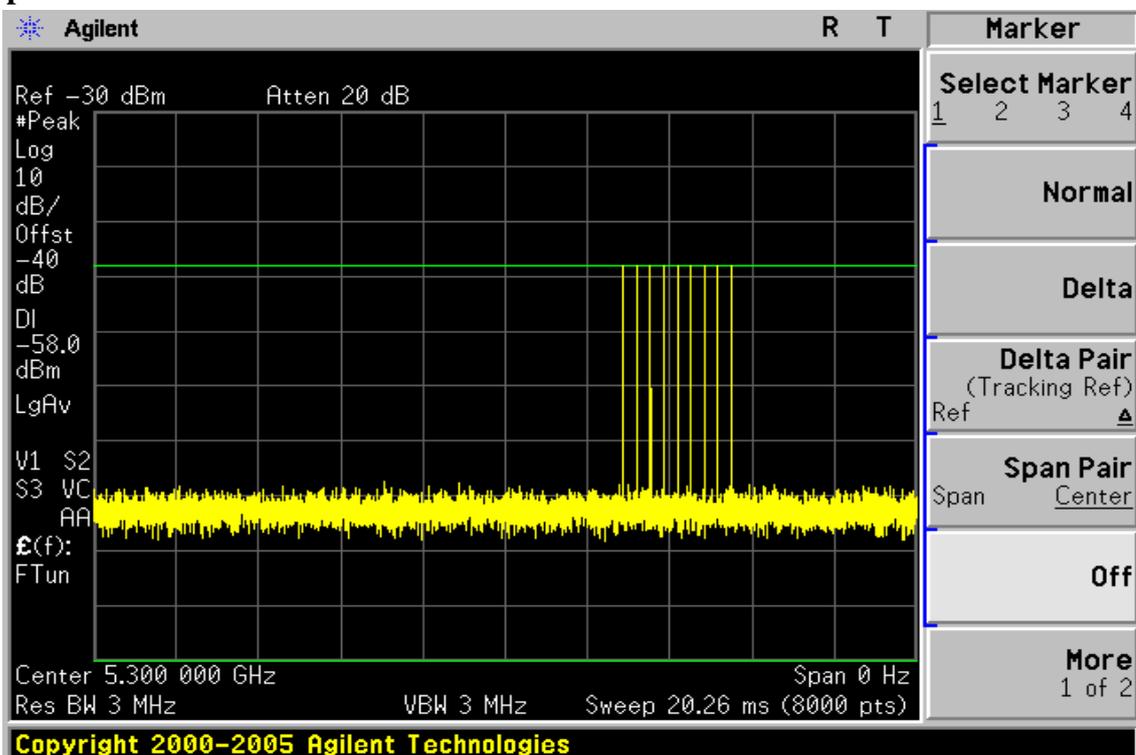
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Radar type 5



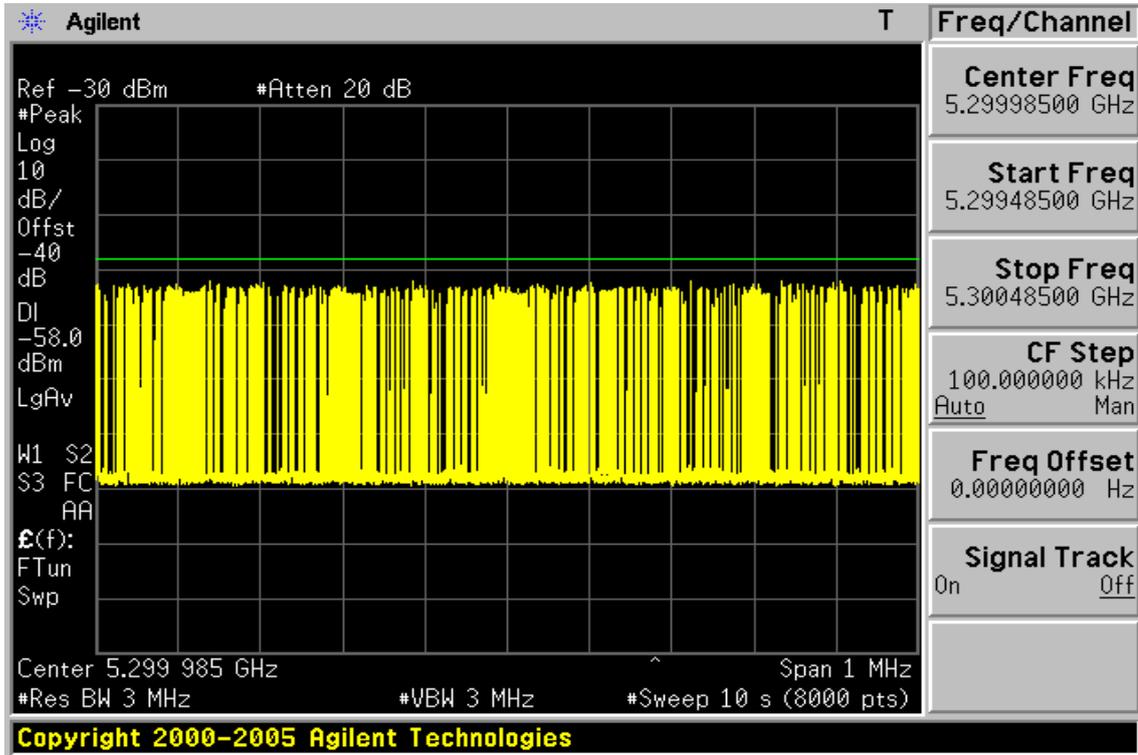
Radar type 6



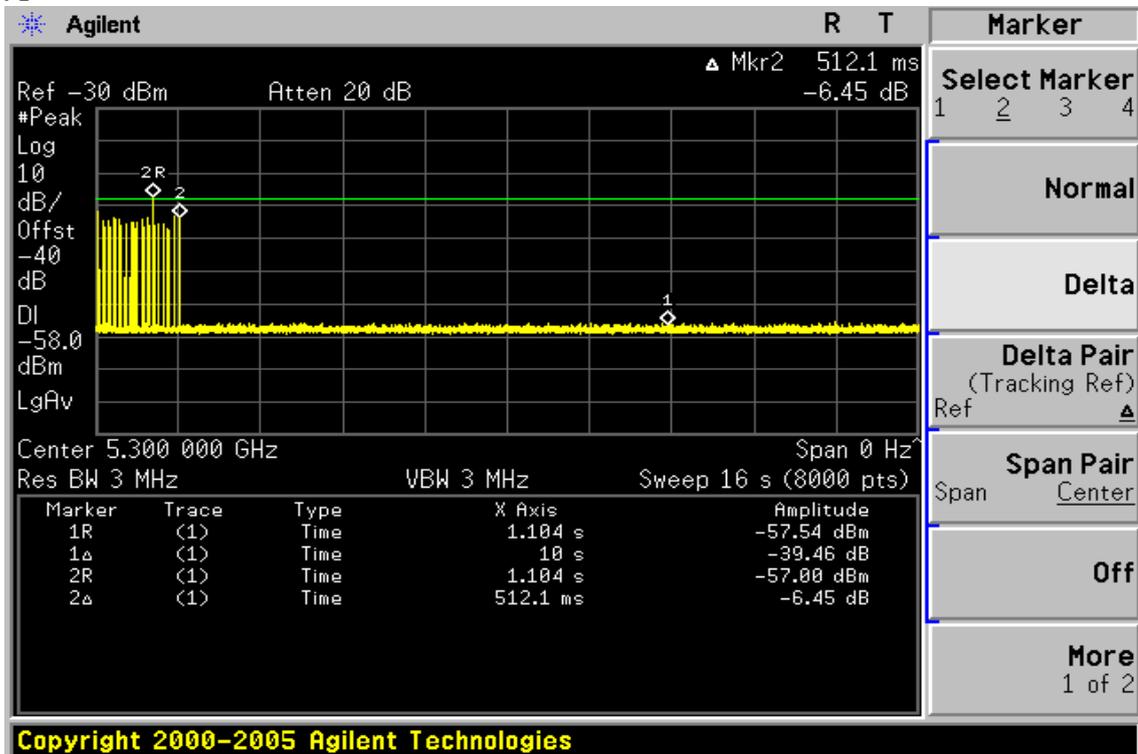
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WLAN traffic



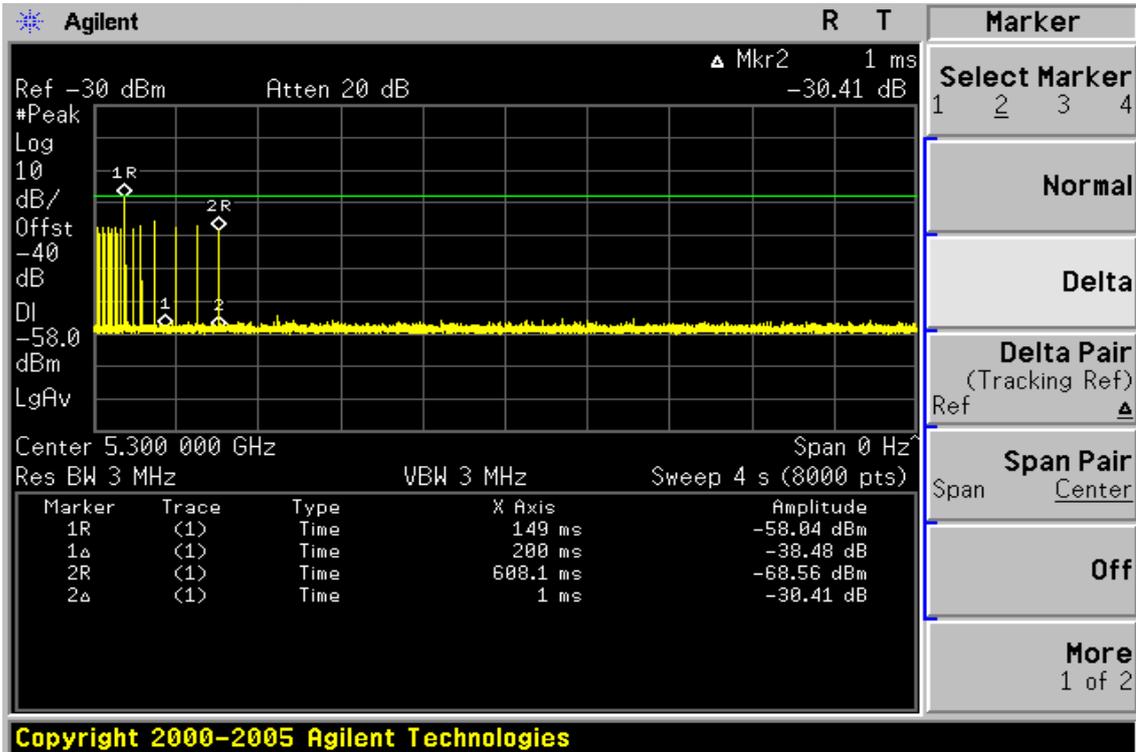
Radar Type 1 Channel Move Time



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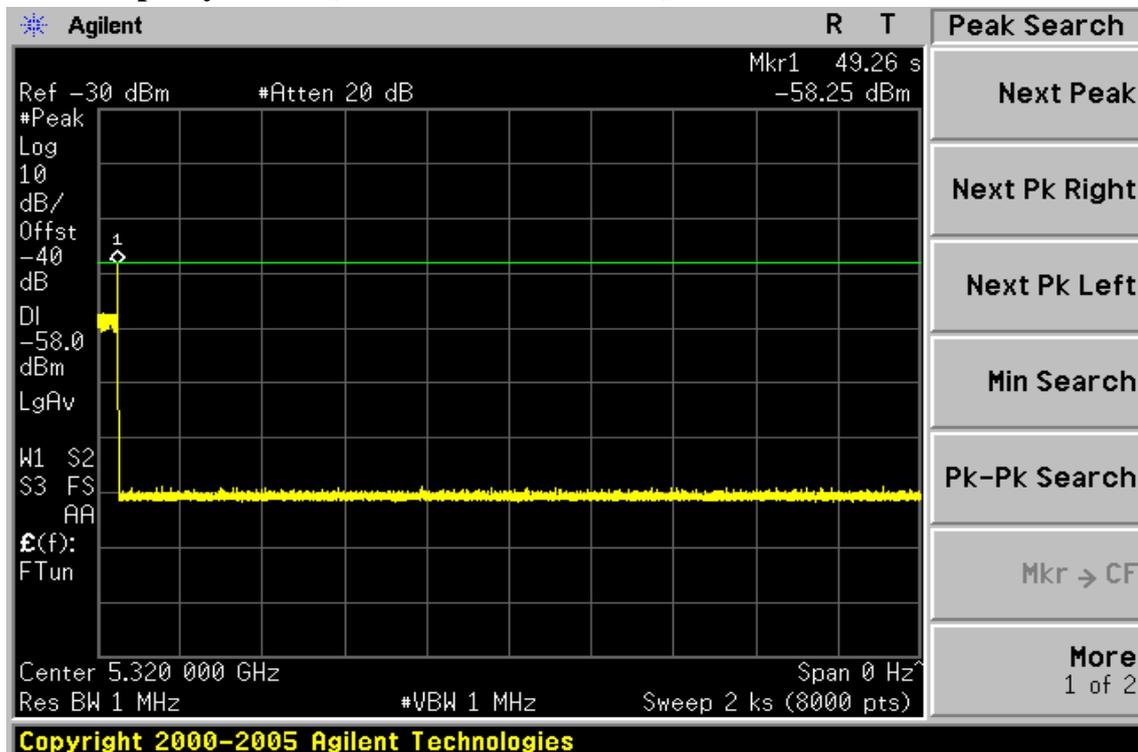
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Radar Type 1 Channel Closing Transmission Time



$1\text{ms} * 3 = 3\text{ms}$

Non-occupancy Period (without radar detection)



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