

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	Tablet Computer
Brand Name:	acer
Marketing Name:	ICONIA W4-820; ICONIA W4-820P Different name for market segmentation
Model No.:	EE6
Model Difference:	N/A
FCC ID:	HLZEE6
IC:	1754F-EE6
Report No.:	ER/2013/80069
Issue Date:	Sep. 26, 2013
FCC Rule Part:	§15.407
IC Rule Part:	RSS-210 issue 8:2010, Annex 9
Prepared for:	Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant:

Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan
(R.O.C)

Product Name:

Tablet Computer

Brand Name:**Marketing Name:**

ICONIA W4-820; ICONIA W4-820P
Different name for market segmentation

Model No.:

EE6

Model Difference:

N/A

FCC ID:

HLZEE6

IC:

1754F-EE6

File Number:

ER/2013/80069

Date of test:

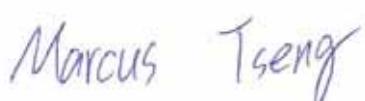
Aug. 29, 2013 ~ Sep. 18, 2013

Date of EUT Received:

Aug. 29, 2013

We hereby certify that:

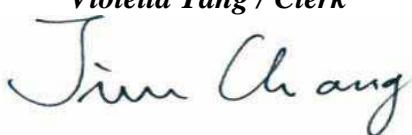
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and the energy emitted by the sample EUT tested 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:**

Sep. 26, 2013

*Marcus Tseng / Engineer***Prepared By:****Date:**

Sep. 26, 2013

*Violetta Tang / Clerk***Approved By:****Date:**

Sep. 26, 2013

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Sep. 26, 2013	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	Tablet Computer	
Brand Name:		
Marketing Name:	ICONIA W4-820; ICONIA W4-820P Different name for market segmentation	
Model No.:	EE6	
Model Difference:	N/A	
Hardware Version:	B3B	
Software Version:	BIOS v012	
Power Supply:	3.75Vdc Rechargeable Li-polymer battery pack or 5.35Vdc from AC/DC adapter	
	Battery:	1. Model No.: AC13F3L Supplier: Sanyo Electric Co., Ltd.
		2. Model No.: AC13F8L Supplier: LG CHEMICAL LTD
	Adapter:	1. Model No.: W12-010N3A, Supplier: Chicony
		2. Model No.: PSAI10R-050Q Supplier: Phihong Technology Co., Ltd.
		3. Model No.: DELTA ADP-10HW AA Supplier: DELTA-SINGAPORE

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / Average Rated Power(EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	12.60dBm (Avg.) 14.50dBm (EIRP)	OFDM	16M4D1D
	5250~5350	4	12.48dBm (Avg.) 14.38dBm (EIRP)		16M4D1D
	5470~5725	11	12.26dBm (Avg.) 13.50dBm (EIRP)		16M3D1D
11n	HT20 5150~5250	4	Avg. Power: HT 20: 9.61dBm (MIMO Chain 0): 9.13dBm (MIMO Chain 1): 9.72dBm (MIMO Chain 0+1): 12.40dBm EIRP: HT20: 11.51dBm (MIMO Chain 0+1): 14.82dBm	OFDM	17M5D1D
	HT20 5250~5350	4	Avg. Power: HT 20: 9.24dBm (MIMO Chain 0): 8.88dBm (MIMO Chain 1): 9.70dBm (MIMO Chain 0+1): 12.32dBm EIRP: HT20: 11.14dBm (MIMO Chain 0+1): 13.44dBm		17M5D1D
	HT20 5470~5725	8	Avg. Power: HT 20: 8.95dBm (MIMO Chain 0): 8.64dBm (MIMO Chain 1): 9.42dBm (MIMO Chain 0+1): 12.06dBm EIRP HT20: 10.19dBm (MIMO Chain 0+1): 14.21dBm		17M5D1D

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11n	HT40 5150-5250	2	Avg. Power: HT 40: 9.36dBm (MIMO Chain 0): 8.66dBm (MIMO Chain 1): 9.20dBm (MIMO Chain 0+1): 11.92dBm EIRP HT40: 8.37dBm (MIMO Chain 0+1): 14.08dBm	OFDM	36M4D1D	
	HT40 5250-5350	2	Avg. Power: HT40: 9.27dBm (MIMO Chain 0): 8.30dBm (MIMO Chain 1): 9.13dBm (MIMO Chain 0+1): 11.75dBm EIRP HT40: 8.31dBm (MIMO Chain 0+1): 14.16dBm		36M3D1D	
	HT40 5470-5725	3	Avg. Power: HT40: 9.03dBm (MIMO Chain 0): 8.22dBm (MIMO Chain 1): 9.00dBm (MIMO Chain 0+1): 11.64dBm EIRP HT40: 9.65dBm (MIMO Chain 0+1): 13.79dBm		36M4D1D	
Antenna Designation		PIFA Antenna 1. Main: 5GHz Gain: 1.90dBi (5150MHz-5250MHz) 5GHz Gain: 1.90dBi (5250MHz-5350MHz) 5GHz Gain: 1.24dBi (5470MHz-5725MHz) 2. Aux: 5GHz Gain: -0.99dBi (5150MHz-5250MHz) 5GHz Gain: -0.96dBi (5250MHz-5350MHz) 5GHz Gain: 0.62dBi (5470MHz-5725MHz)				
Antenna Part number:		Main: 57.EL 115.OBS Aux: 57.EL 115.OBT				
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 n_20MHz: 6.5 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps				

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

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IEEE 802.11n Spec:

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Datarate(Mbps)			
					20MHz		40MHz		20MHz		40MHz	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bite per single carrier
NCBPS	Number of coded bite per symbol
NDBPS	Number of data bite per symbol
GI	Guard interval

802.11n_HT20 MCS8 -15

MCS Index	Modulation	R	N _{BPSCS} (i _{SS})	N _{SD}	N _{SP}	N _{CBPS}	N _{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI (see NOTE)
8	BPSK	1/2	1	52	4	104	52	13.0	14.4
9	QPSK	1/2	2	52	4	208	104	26.0	28.9
10	QPSK	3/4	2	52	4	208	156	39.0	43.3
11	16-QAM	1/2	4	52	4	416	208	52.0	57.8
12	16-QAM	3/4	4	52	4	416	312	78.0	86.7
13	64-QAM	2/3	6	52	4	624	416	104.0	115.6
14	64-QAM	3/4	6	52	4	624	468	117.0	130.0
15	64-QAM	5/6	6	52	4	624	520	130.0	144.4

NOTE—The 400 ns GI rate values are rounded to 1 decimal place.

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802.11n_HT40 MCS8 -15

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI
8	BPSK	1/2	1	108	6	216	108	27.0	30.0
9	QPSK	1/2	2	108	6	432	216	54.0	60.0
10	QPSK	3/4	2	108	6	432	324	81.0	90.0
11	16-QAM	1/2	4	108	6	864	432	108.0	120.0
12	16-QAM	3/4	4	108	6	864	648	162.0	180.0
13	64-QAM	2/3	6	108	6	1296	864	216.0	240.0
14	64-QAM	3/4	6	108	6	1296	972	243.0	270.0
15	64-QAM	5/6	6	108	6	1296	1080	270.0	300.0

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

This submittal(s) (test report) is intended for FCC ID: HLZEE6 filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules. And IC: 1754F-EE6 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 C63.4:2009 & KDB 789033 D01 published on 04, 08, 2013. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC KDB789033 D01 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 Road, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number is: 990257. 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

There are no special accessories used while test was conducted.

1.6. Equipment Modifications

There was no modification incorporated into the EUT.

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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

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

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 general criterion in Section 7.1 of ANSI C63.4:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2009 & 6.2.2, is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

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 of ANSI C63.4:2009.,

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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration

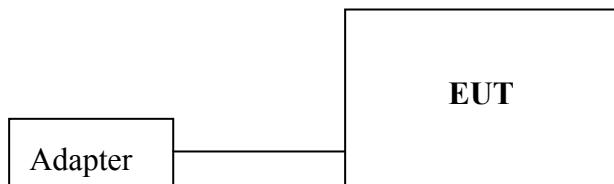


Fig. 2-3 AC Power Line Conducted Emission

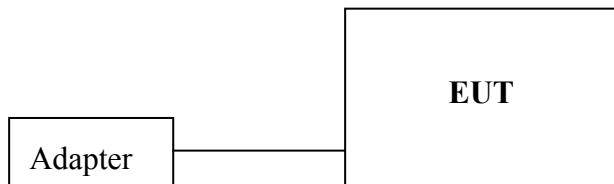


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULT

FCC/IC Rules	Description Of Test	Result
§15.207 RSS-Gen §7.2.4	AC Power Line Conducted Emission	Compliant
§15.407(a) (1) (2) RSS 210 A9.2 RSS-Gen §4.6.1	26 dB and 99% Emission Bandwidth	Compliant
§15.407(a) (1) (2) RSS 210 A9.2(1)(2)(3)	The Maximum Output Power Measurement	Compliant
§15.407(a) (5) RSS 210 A9.2(1)(2)(3)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b) (1) (2) (3) RSS 210 A9.2(1)(2)(3)	Undesirable Emission – Conducted Measurement	Compliant
§15.407(b) (1) (2) (3)(6) (7) RSS 210 A9.2 (1) (2)(3) RSS-Gen 7.2.5	Undesirable Emission – Radiated Measurement	Compliant
§15.407(c) RSS 210 A9.4(4)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 RSS-Gen 7.1.2	Antenna Requirement	Compliant
§15.407(h) 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(5550MHz) and Highest(5670MHz)with 13.5Mbps data rate are chosen for full testing

The worst case is determined by the output power that generates the highest emission. As examined in the section of output power measurement, the section 7.5, the lowest data rate at a/b/g/n_HT20/n_HT40 resulted the highest level of fundamental emission, and therefore, the lowest data rate is chosen as the worst-case to conduct the remaining of other mandatory test cases.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

Pre-scanned was done on antenna: 57.EL 115.OBS and antenna 57.EL 115.OBT, and antenna 57.EL 115.OBS results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: 57.EL 115.OBS to be presented on this test report.

For radiation spurious emission test relevant n_HT20&HT40, MIMO mode that generates the higher emission is chosen to be tested in comparison with transmission at SISO mode.

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Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 3.01dBi (peak spectral density, conducted spurious emission)

Gain that is combined with different magnitude of two antennas:

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$\text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

Directive Gain = 0.52dBi for 802.11 a/n20, 0.26dBi for 802.11 n40 (5150~5250MHz)

Directive Gain = 0.56dBi for 802.11 a/n20, 0.51dBi for 802.11 n40 (5250~5350MHz)

Directive Gain = 0.91dBi for 802.11 a/n20, 0.91dBi for 802.11 n40 (5470~5725MHz)

MIMO Gain = 2.42dBi for 802.11 a/n20, 2.16dBi for 802.11 n40 (5150~5250MHz)

MIMO Gain = 1.12dBi for 802.11 a/n20, 2.41dBi for 802.11 n40 (5250~5350MHz)

MIMO Gain = 2.15dBi for 802.11 a/n20, 2.15dBi for 802.11 n40 (5470~5725MHz)

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Duty Cycle Analysis:

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (a/n_ht20/n_ht40) shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, resulted as obtained below, and showed only the most representative ones

Tabular results as indicates below entails the results of duty factor for all supported modes.

Formula:

$$\text{Duty Cycle} = T_{on} / (T_{on} + T_{off})$$

Test Procedure:

Set span = 0, RBW = 8MHz, the largest as possible, VBW = 8MHz, Detector = Peak, and RBW, and VBW = the highest RBW the spectrum is capable of, where zero-span is permissible, that $> 50/T$, where T is $\sim 4.3\text{ms}$

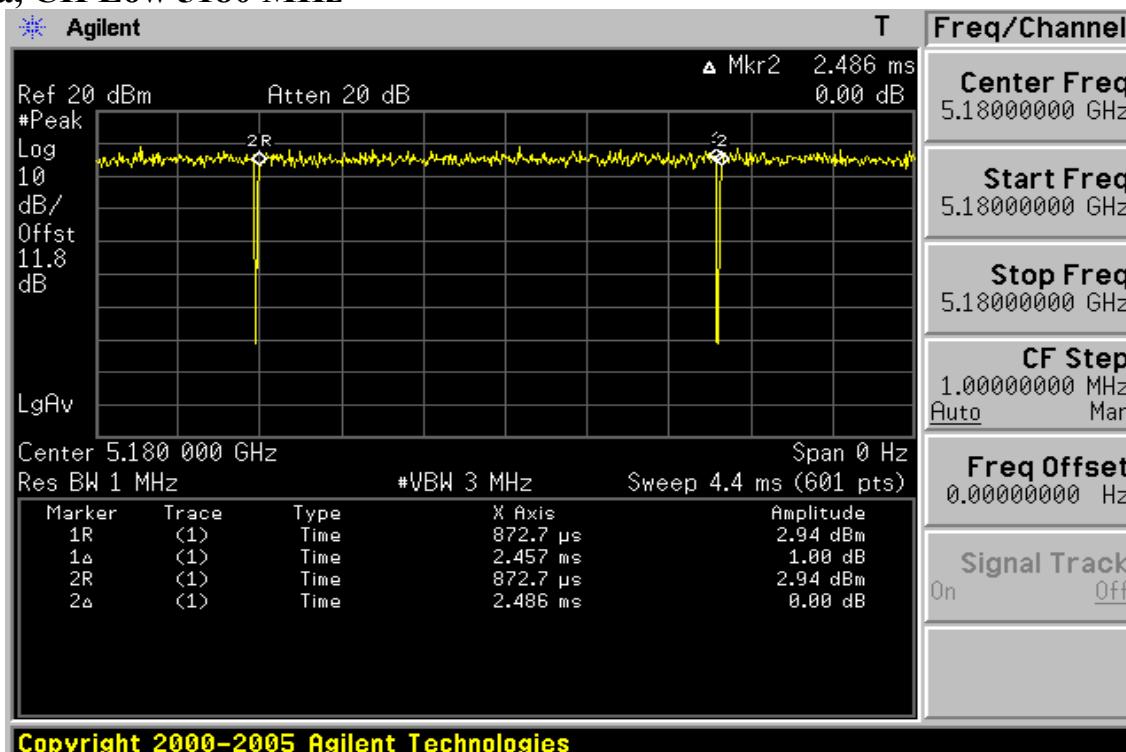
Duty Cycle:

5150-5725MHz	Antenna	Duty Cycle	Duty Factor (dBm)
802.11a	Single- Main	0.9883	0.05
802.11n_20	MIMO-Main	0.9764	0.10
	MIMO-Aux	0.9764	0.10
802.11n_40	MIMO-Main	0.9721	0.12
	MIMO-Aux	0.9721	0.12

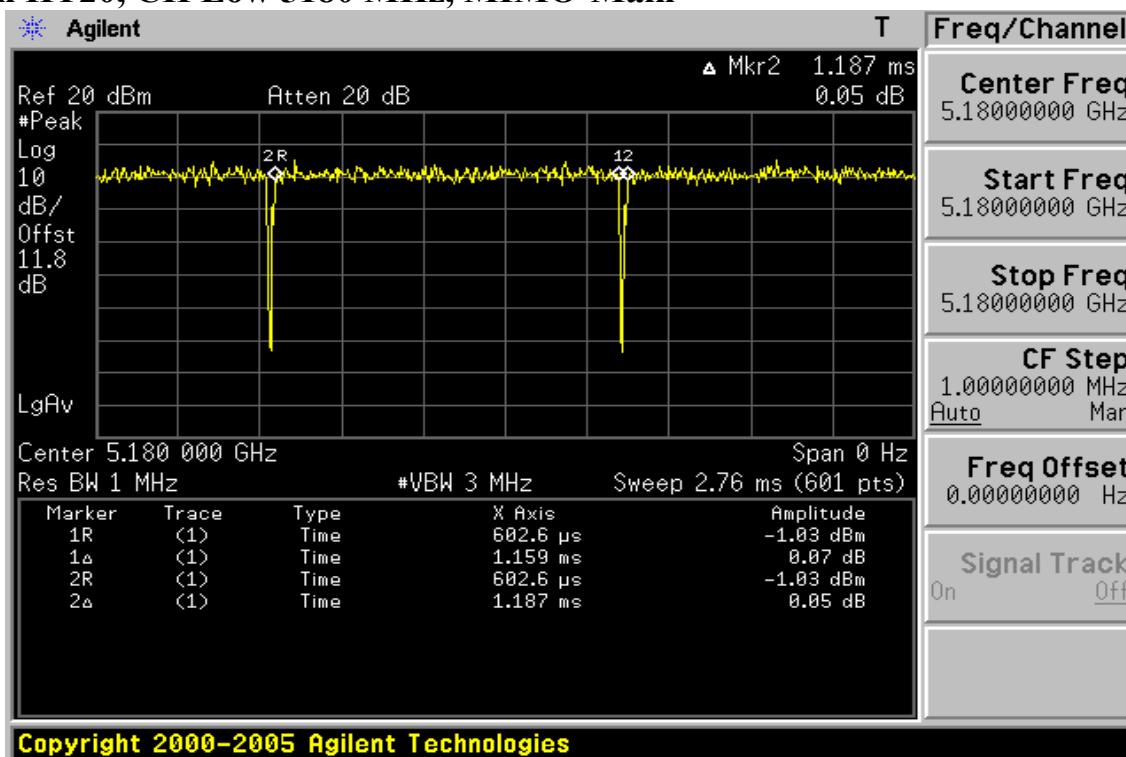
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DUTY CYCLE OF TEST SIGNAL
802.11a, CH Low 5180 MHz

802.11n HT20, CH Low 5180 MHz, MIMO-Main

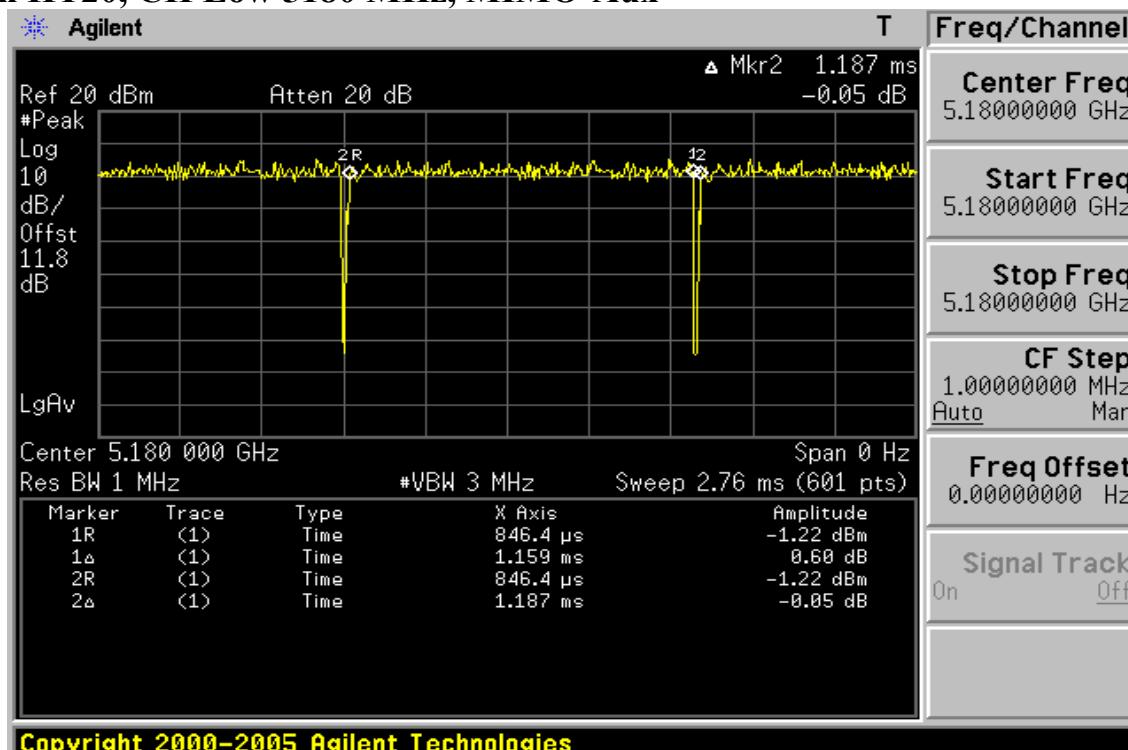


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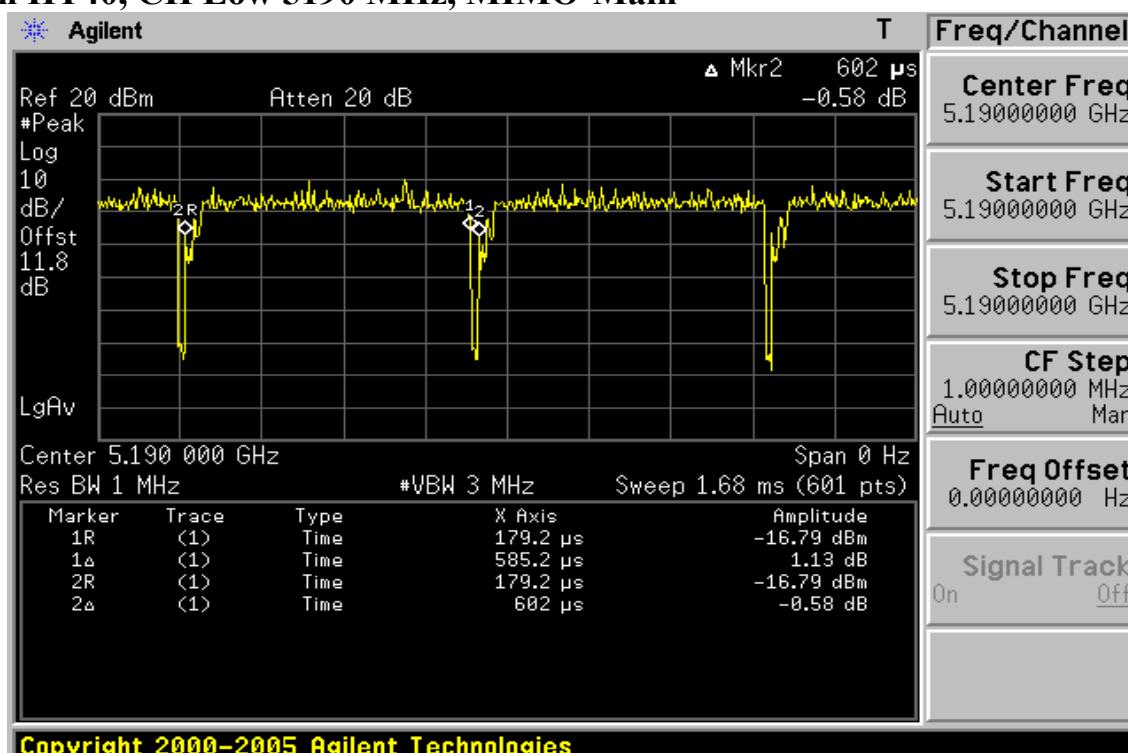
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802.11n HT20, CH Low 5180 MHz, MIMO-Aux



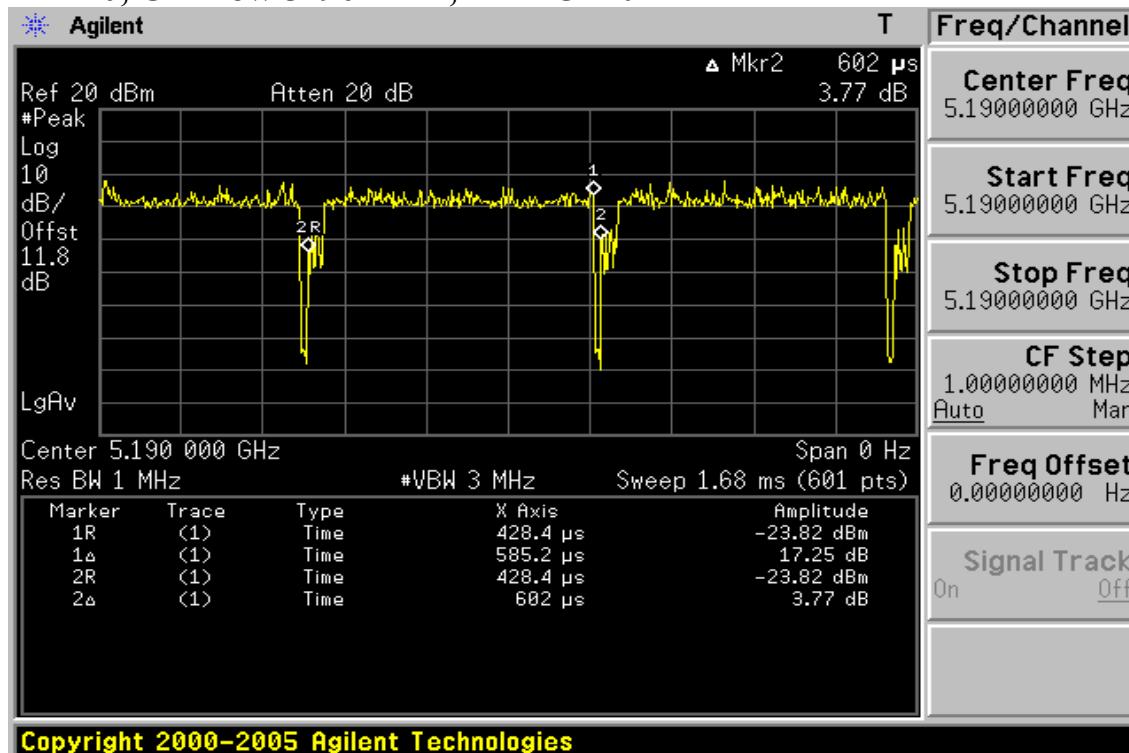
802.11n HT40, CH Low 5190 MHz, MIMO-Main



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802.11n HT40, CH Low 5190 MHz, MIMO-Aux

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26 dB and 99% Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 1.42 dB
Peak Power Spectral Density Measurement	+/- 1.55 dB
Peak Excursion Measurement	+/- 1.55 dB
Undesirable Emission – Conducted Measurement	+/- 1.55 dB
Transmission in case of Absence of Information	+/- 1.55 dB
Frequency Stability	+/- 123.36 Hz
TPC and DFS Measurement	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

Radiated Spurious Emission:

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. 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. 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	02/08/2013	02/07/2014
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2012	09/22/2013
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2013	03/22/2014
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2013	03/22/2014
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2013	01/04/2014

6.3. EUT Setup

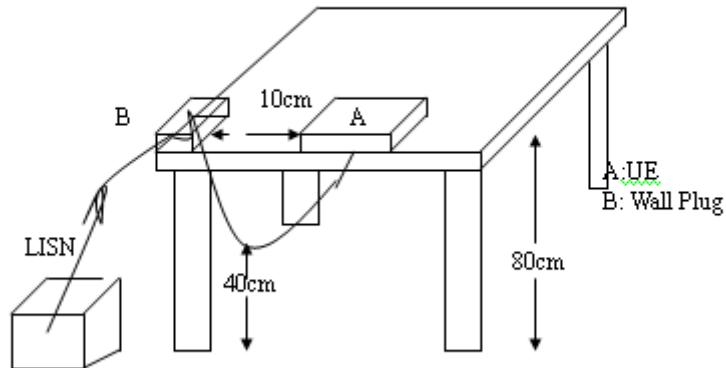
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4. Test SET-UP (Block Diagram of Configuration)



6.5. 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 phases of power being supplied by given UE are completed

6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that that closet to the limit

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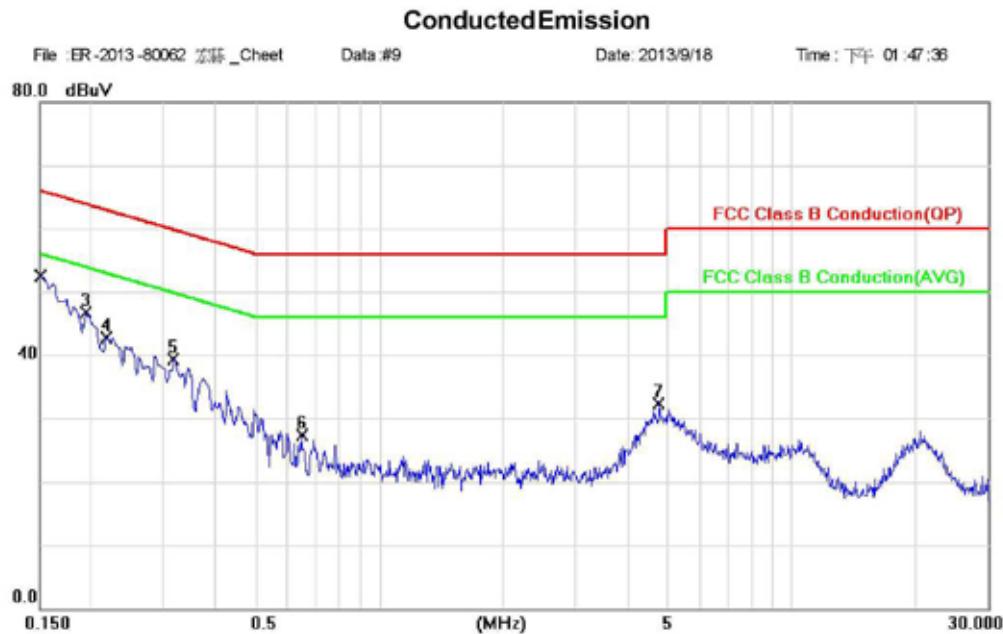
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Sep. 18, 2013
Temperature:	26	Humidity:	60 %	Test By:	Marcus
Adapter Model:	W12-010N3A (Chicony)			Probe:	L1/N

Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: Tablet Computer
 M/N: EE6
 Note: Chicony W12-010N3A

Phase: **L1** Temperature: 26 °C
 Power: AC 120V/60Hz Humidity: 60%
 Distance:
 Mode: Operationmode



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Defector	Comment
			Level	Factor	ment				
1		0.1500	36.13	9.96	46.09	66.00	-19.91	QP	
2		0.1500	17.42	9.96	27.38	56.00	-28.62	Avg	
3 *		0.1940	36.65	9.96	46.61	63.86	-17.25	peak	
4		0.2180	32.74	9.97	42.71	62.89	-20.18	peak	
5		0.3180	29.38	10.01	39.39	59.76	-20.37	peak	
6		0.6500	17.38	10.02	27.40	56.00	-28.60	peak	
7		4.7780	22.21	10.16	32.37	56.00	-23.63	peak	

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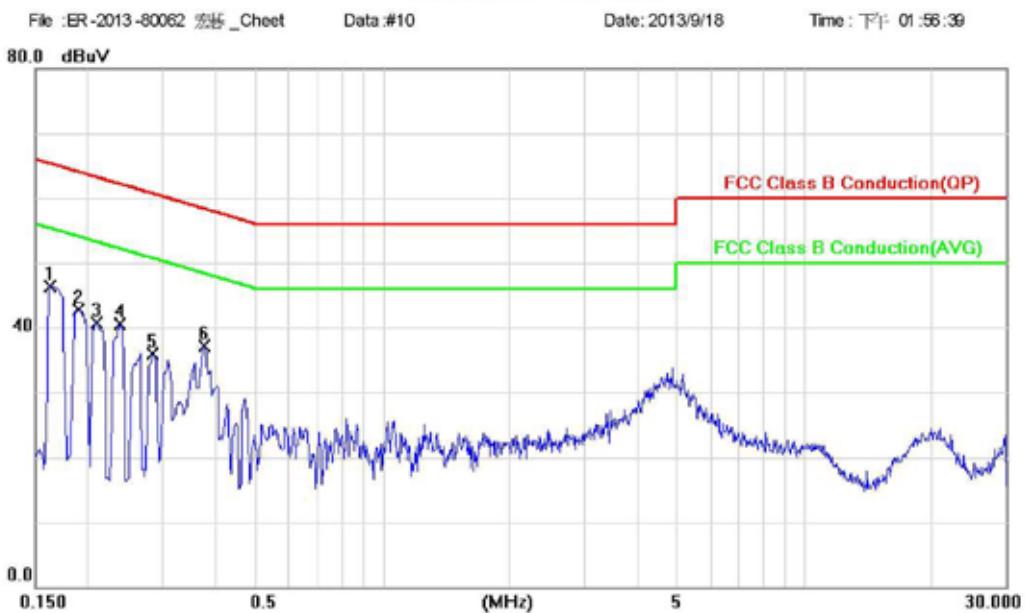
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Site: ConductionRoom
Limit: FCC Class B Conduction(QP)
EUT: Tablet Computer
M/N: EE6
Note: Chicony W12-010N3A

Phase: **N**
Power: AC 120V/60Hz
Distance:
Mode: Operationmode

Temperature: 26 °C
Humidity: 60%

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	0.1620	36.35	9.98	46.33	65.36	-19.03	peak	
2		0.1900	32.78	9.99	42.77	64.04	-21.27	peak	
3		0.2100	30.69	9.99	40.68	63.21	-22.53	peak	
4		0.2380	30.53	10.01	40.54	62.17	-21.63	peak	
5		0.2860	25.81	10.03	35.84	60.64	-24.80	peak	
6		0.3780	27.07	10.05	37.12	58.32	-21.20	peak	

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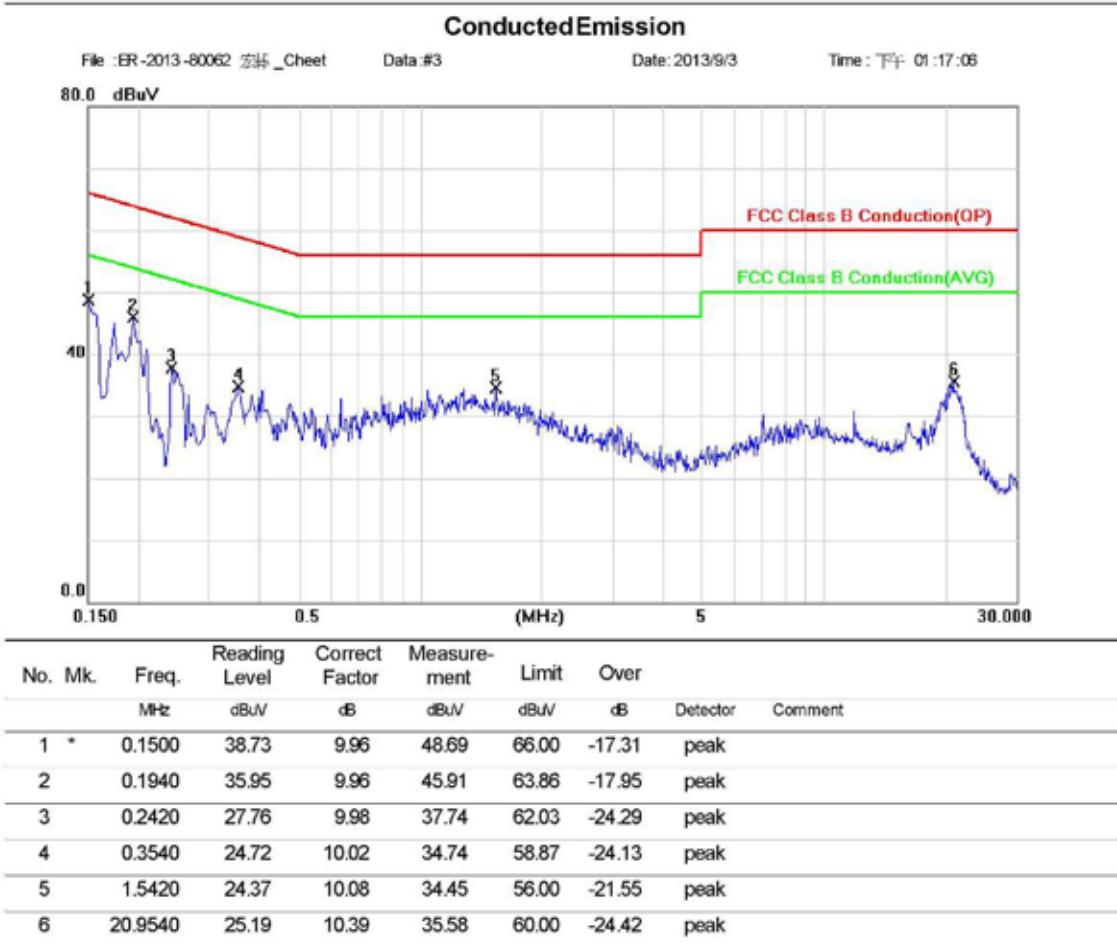
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Sep. 03, 2013
Temperature:	26	Humidity:	60 %	Test By:	Marcus
Adapter Model:	PSAI10R-050Q (Phihong)			Probe:	L1/N

Site: ConductionRoom
 Phase: **L1** Temperature: 26 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%
 EUT: Tablet Computer Distance:
 M/N: EE6 Mode: Operationmode
 Note:



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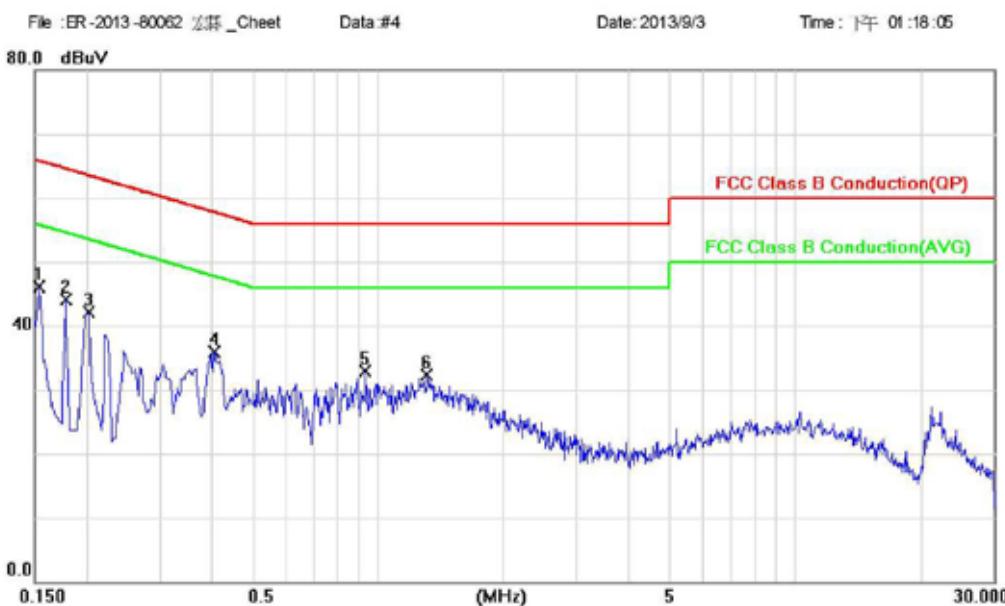
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Site: ConductionRoom
Limit: FCC Class B Conduction(QP)
EUT: Tablet Computer
M/N: EE6
Note:

Phase: **N** Temperature: 26 °C
Power: AC 120V/60Hz Humidity: 60%
Distance:
Mode: Operationmode

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1540	36.16	9.98	46.14	65.78	-19.64	peak	
2		0.1780	34.03	9.99	44.02	64.58	-20.56	peak	
3		0.2020	32.18	9.99	42.17	63.53	-21.36	peak	
4		0.4060	25.83	10.05	35.88	57.73	-21.85	peak	
5		0.9380	22.83	10.09	32.92	56.00	-23.08	peak	
6		1.3140	22.29	10.09	32.38	56.00	-23.62	peak	

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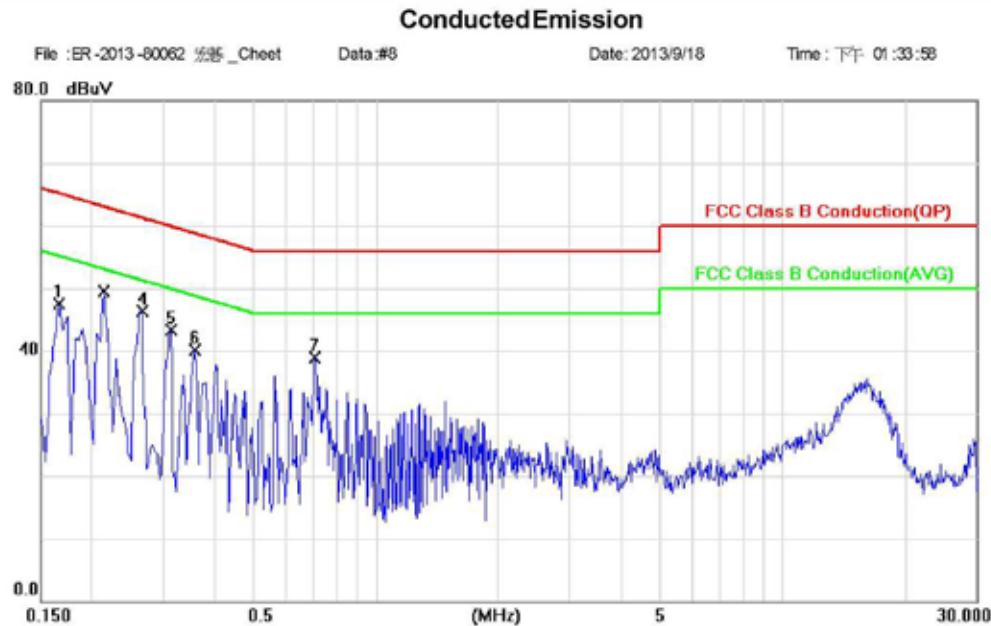
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Sep. 18, 2013
Temperature:	26	Humidity:	60 %	Test By:	Marcus
Adapter Model:	DELTAADP-10HW AA (Delta)			Probe:	L1/N

Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: Tablet Computer
 M/N: EE6
 Note: Delta ADP-10HWAA

Phase: **L1** Temperature: 26 °C
 Power: AC 120V/60Hz Humidity: 60%
 Distance:
 Mode: Operationmode



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	37.62	9.96	47.58	65.16	-17.58	peak	
2		0.2140	32.35	9.97	42.32	63.05	-20.73	QP	
3		0.2140	18.55	9.97	28.52	53.05	-24.53	Avg	
4	*	0.2660	36.31	10.00	46.31	61.24	-14.93	peak	
5		0.3140	33.20	10.01	43.21	59.86	-16.65	peak	
6		0.3580	30.07	10.02	40.09	58.77	-18.68	peak	
7		0.7100	28.84	10.04	38.88	56.00	-17.12	peak	

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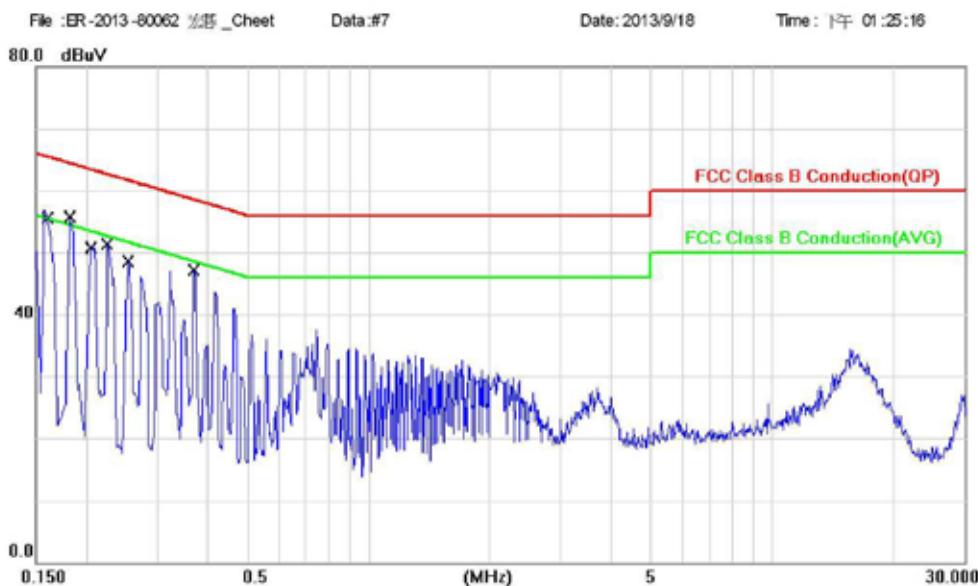
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Site: ConductionRoom
Limit: FCC Class B Conduction(QP)
EUT: Tablet Computer
M/N: EE6
Note: Delta ADP-10HWAA

Phase: **N** Temperature: 26 °C
Power: AC 120V/60Hz Humidity: 60%
Distance:
Mode: Operationmode

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over	
							Detector	Comment
1		0.1620	35.84	9.98	45.82	65.36	-19.54	QP
2		0.1620	15.73	9.98	25.71	55.36	-29.65	AVG
3		0.1820	36.83	9.99	46.82	64.39	-17.57	QP
4		0.1820	19.76	9.99	29.75	54.39	-24.64	AVG
5		0.2060	35.10	9.99	45.09	63.37	-18.28	QP
6		0.2060	16.14	9.99	26.13	53.37	-27.24	AVG
7	*	0.2260	36.72	10.00	46.72	62.60	-15.88	QP
8		0.2260	20.25	10.00	30.25	52.60	-22.35	AVG
9		0.2540	31.48	10.02	41.50	61.63	-20.13	QP
10		0.2540	12.73	10.02	22.75	51.63	-28.88	AVG
11		0.3700	27.26	10.05	37.31	58.50	-21.19	QP
12		0.3700	8.95	10.05	19.00	48.50	-29.50	AVG

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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 §4.6, 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.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. A) 99% Bandwidth Measurement: set resolution BW as close to 1% of the selected span without it is being lower than 1%, & VBW = 3 XRBW. Detector = Peak or Sample, where sample must be selected whenever it is appropriate, Trace Mode = Max Hold
- B) Mark the peak frequency and -26dB (upper and lower) frequency.

4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.

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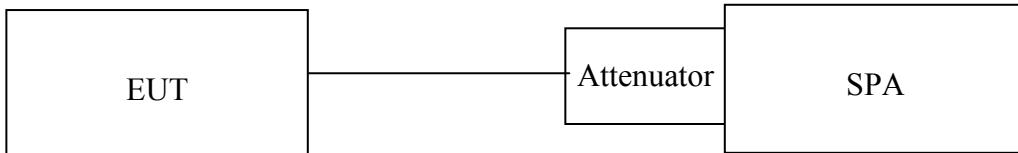
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7.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Sensor	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2013	01/04/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014

7.4 Test Set-up:



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7.5 Measurement Result

26dB Bandwidth

802.11a, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.199	12.83
5220	19.148	12.82
5240	19.259	12.85

802.11a, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.318	12.86
5300	19.256	12.85
5320	19.300	12.86

802.11a, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.024	12.79
5580	18.985	12.78
5700	18.804	12.74

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802.11n HT20, 5150~5250 MHz MIMO-Main

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.729	12.95
5220	19.596	12.92
5240	19.680	12.94

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.761	12.96
5300	19.642	12.93
5320	19.679	12.94

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.178	12.83
5580	19.598	12.92
5700	19.492	12.90

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802.11n HT20, 5150~5250 MHz MIMO-Aux

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.249	12.84
5220	19.661	12.94
5240	19.442	12.89

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.393	12.88
5300	19.570	12.92
5320	19.291	12.85

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.662	12.94
5580	19.771	12.96
5700	19.542	12.91

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802.11n HT40, 5150~5250 MHz MIMO-Main

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	45.444	16.57
5230	45.106	16.54

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	45.332	16.56
5310	45.653	16.59

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	45.090	16.54
5550	45.084	16.54
5670	45.399	16.57

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802.11n HT40, 5150~5250 MHz MIMO-Aux

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	45.633	16.59
5230	45.618	16.59

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	45.235	16.55
5310	45.666	16.60

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	45.725	16.60
5550	45.657	16.60
5670	45.357	16.57

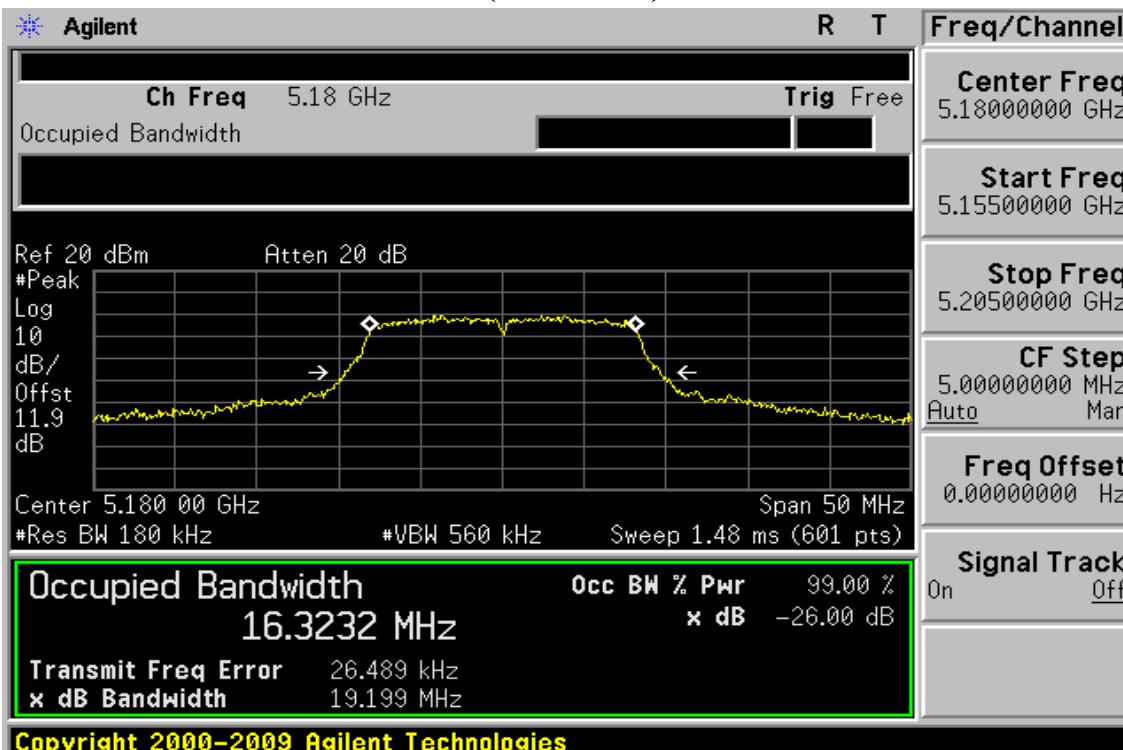
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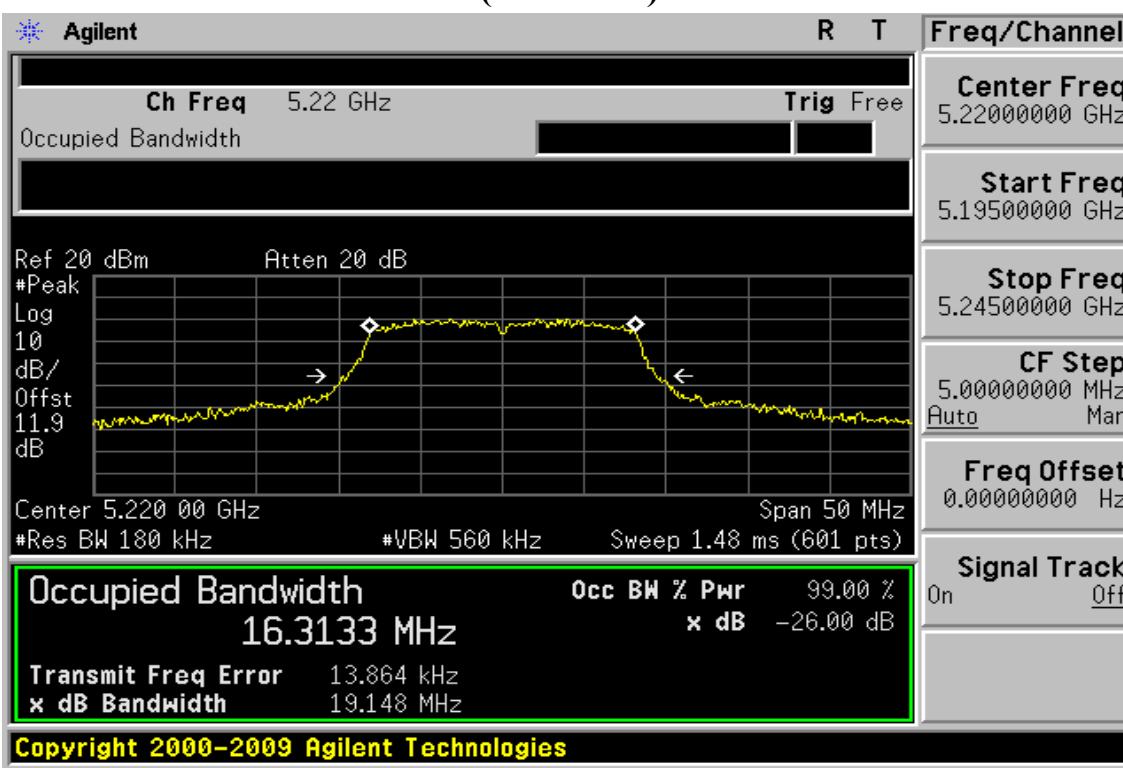
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802.11a, 5150~5250 MHz

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



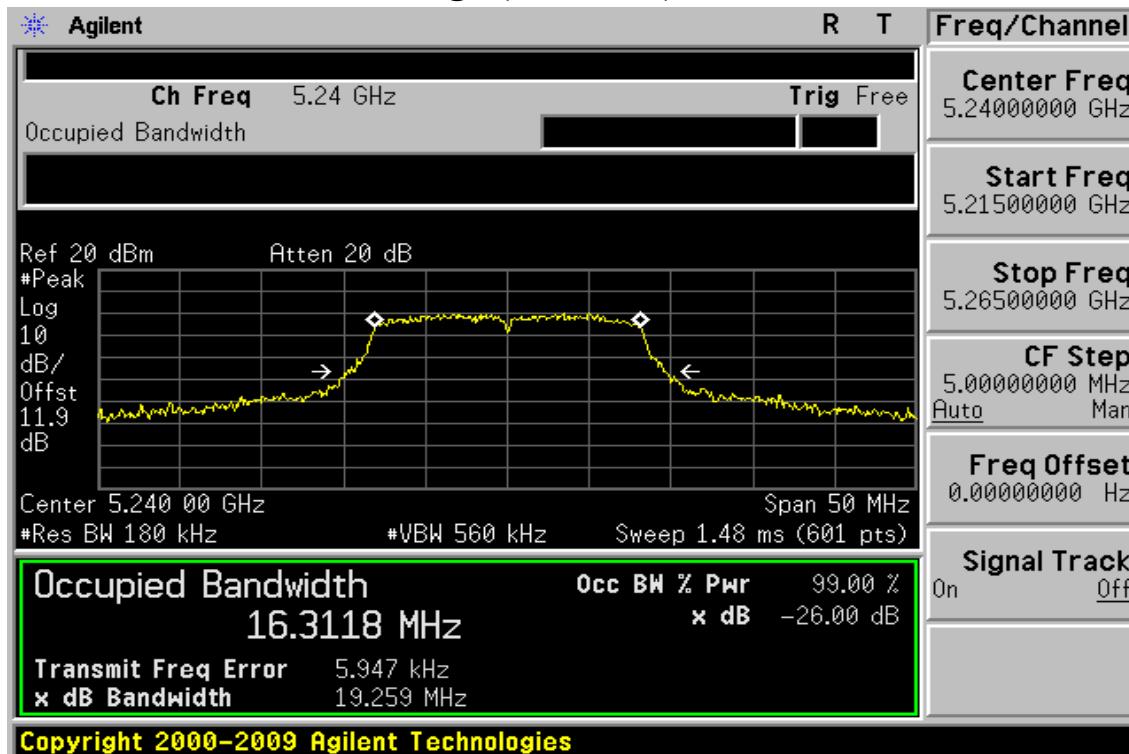
26dB Band Width Test Data CH-Mid (5220MHz)



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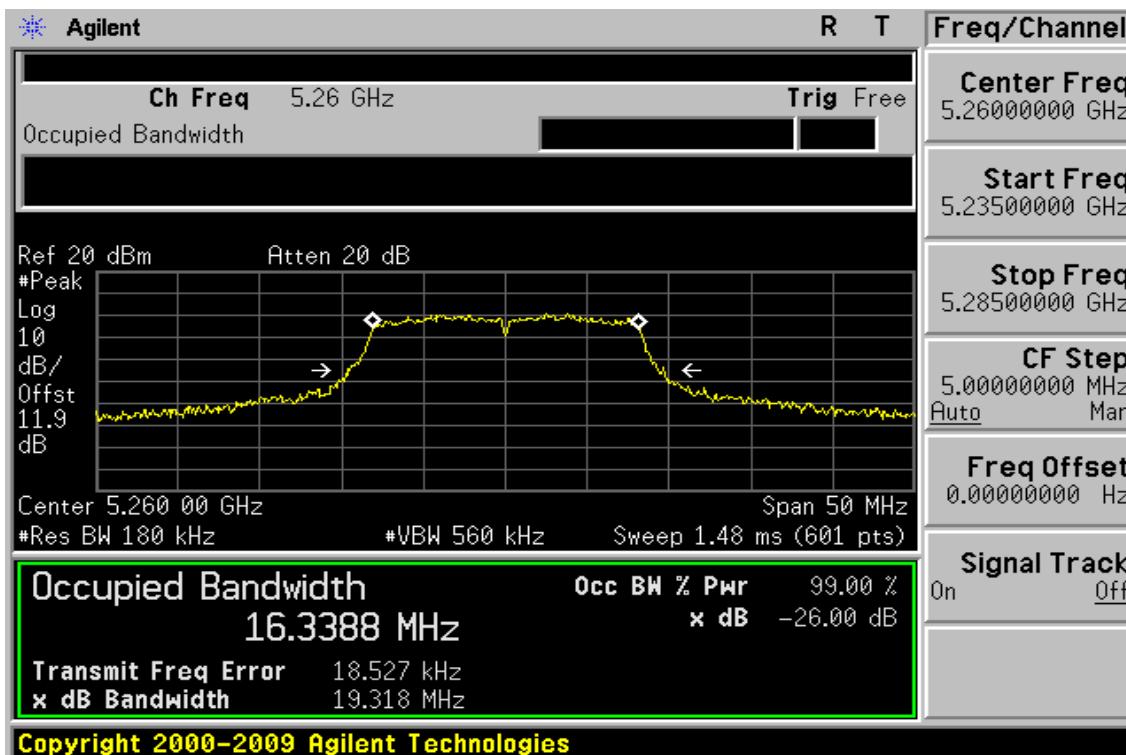
26dB Band Width Test Data CH-High (5240MHz)

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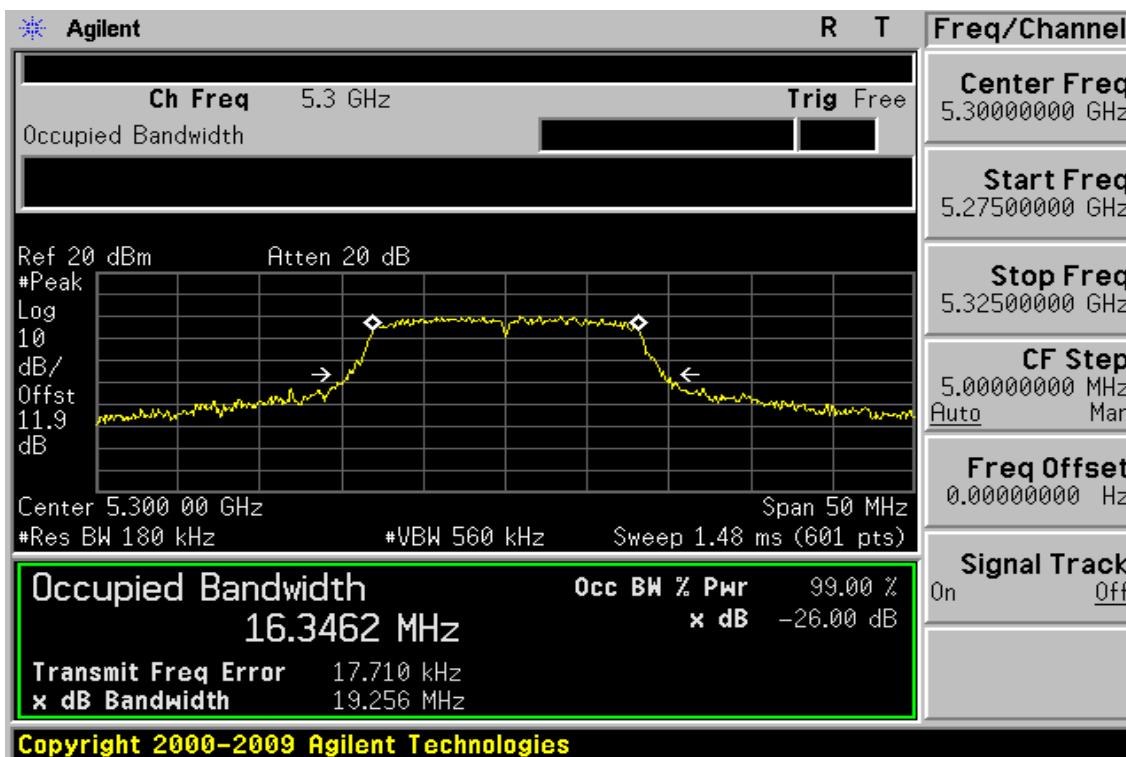
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802.11a, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260MHz)



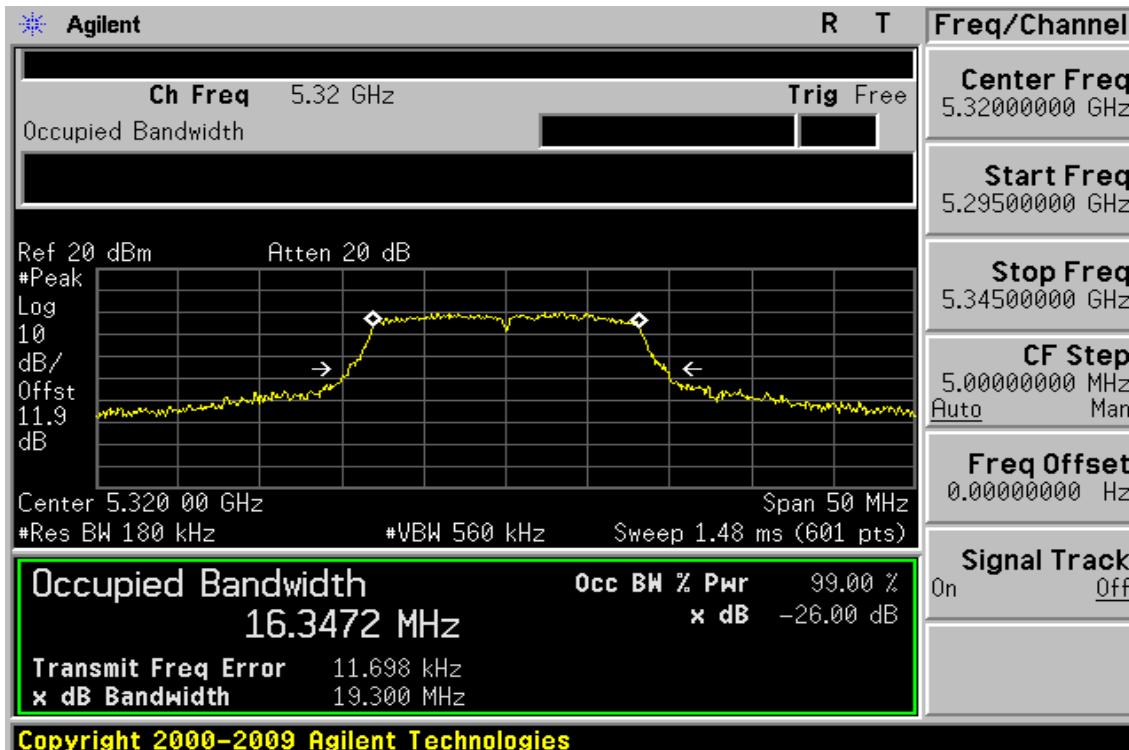
26dB Band Width Test Data CH-Mid (5300MHz)



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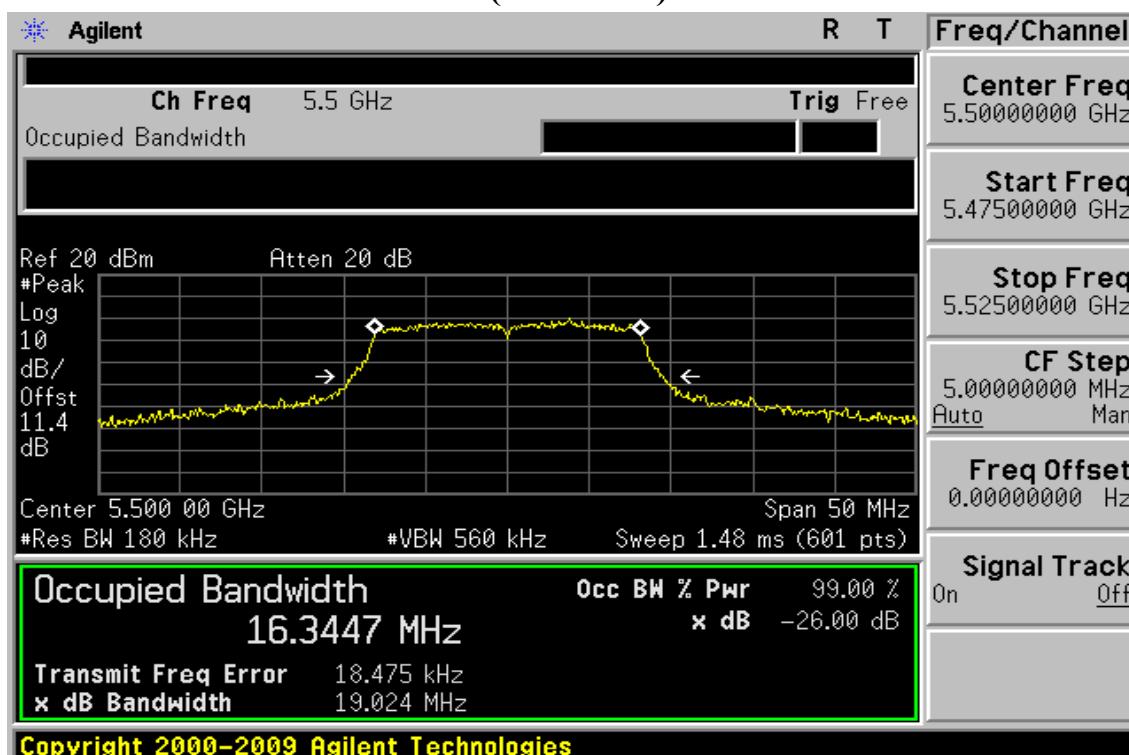
26dB Band Width Test Data CH-High (5320MHz)

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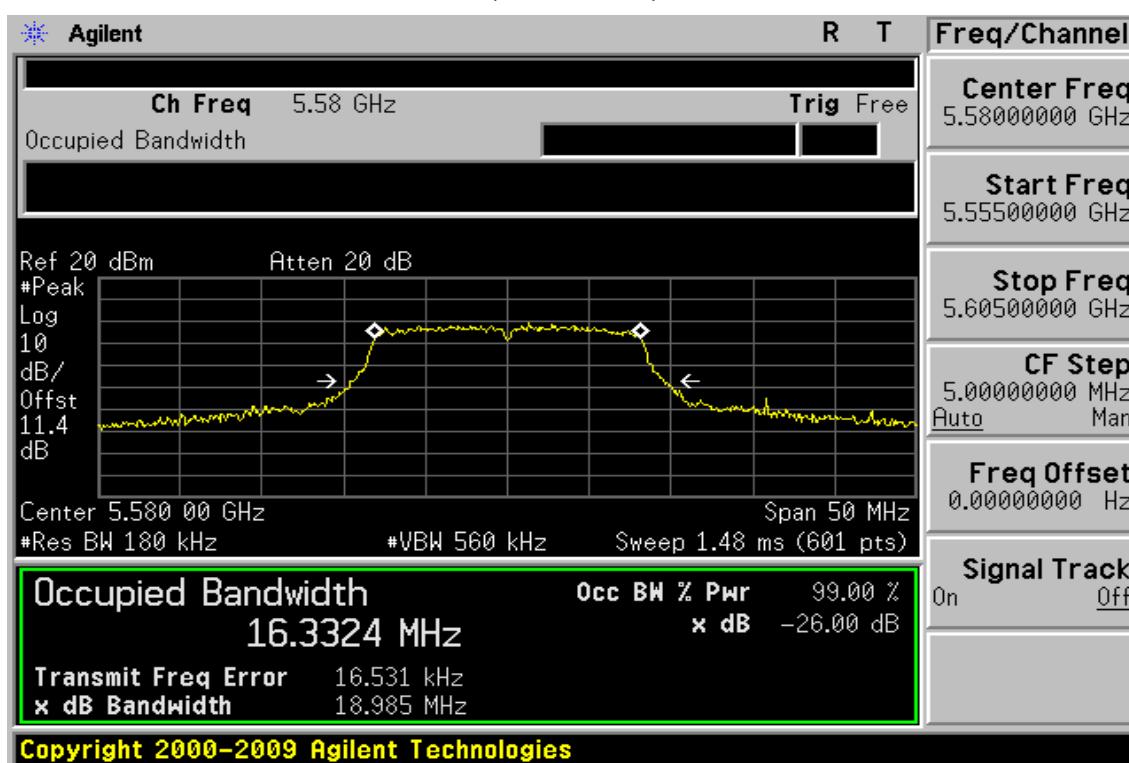
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802.11a, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500MHz)



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

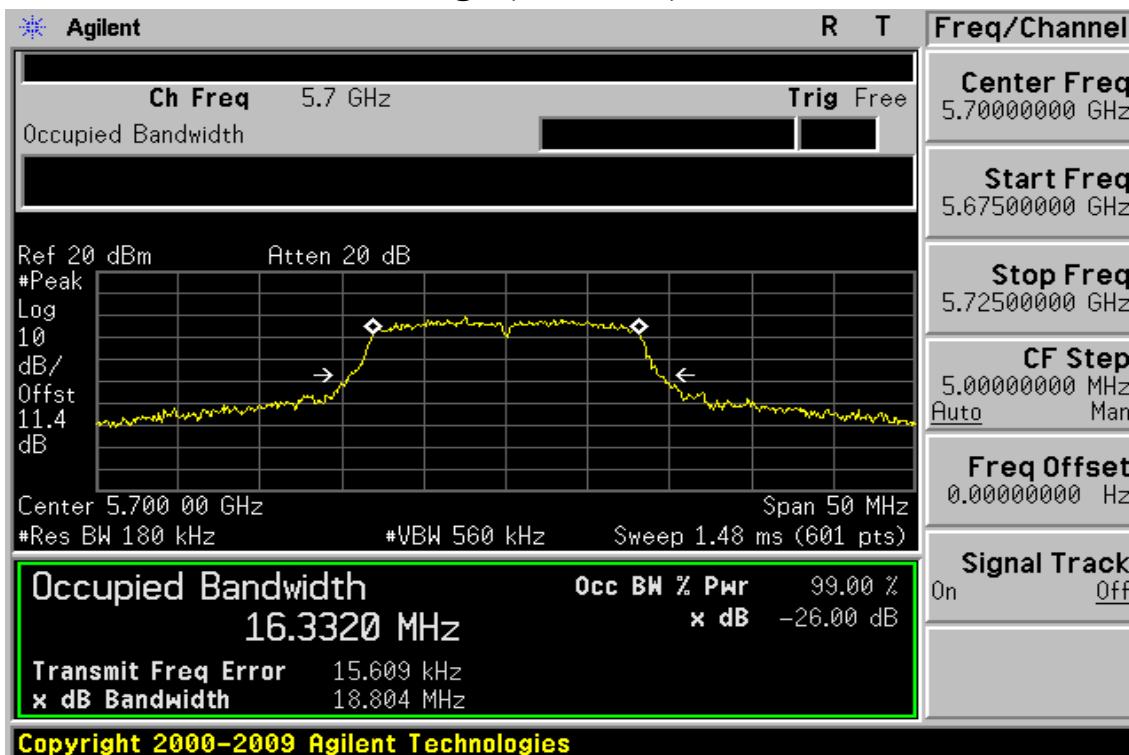


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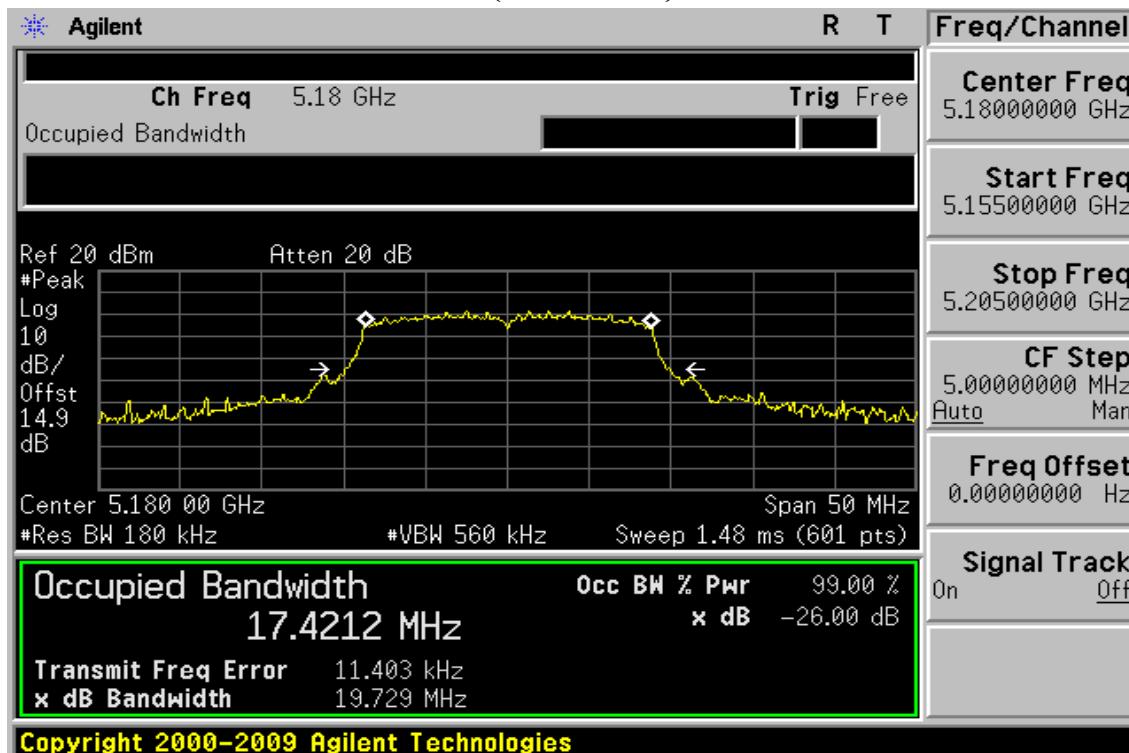
26dB Band Width Test Data CH-High (5700MHz)



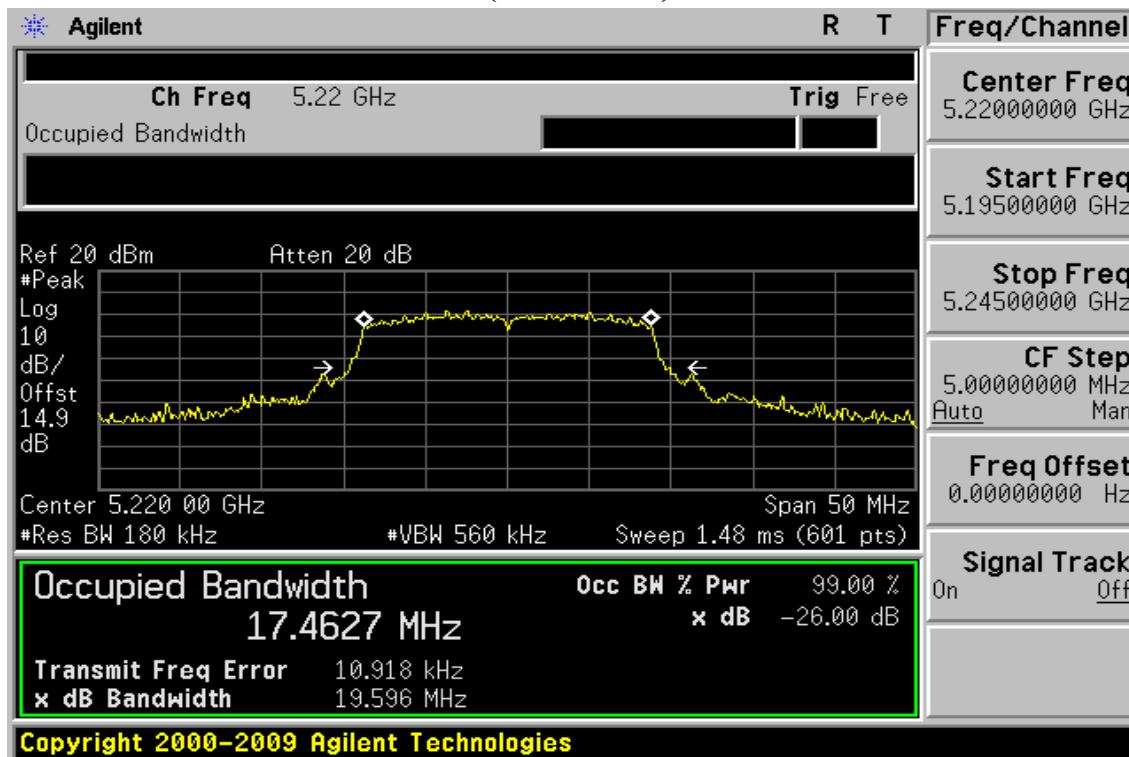
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802.11n HT20, 5150~5250 MHz, MIMO-Main
26dB Band Width Test Data CH-Low (5180 MHz)

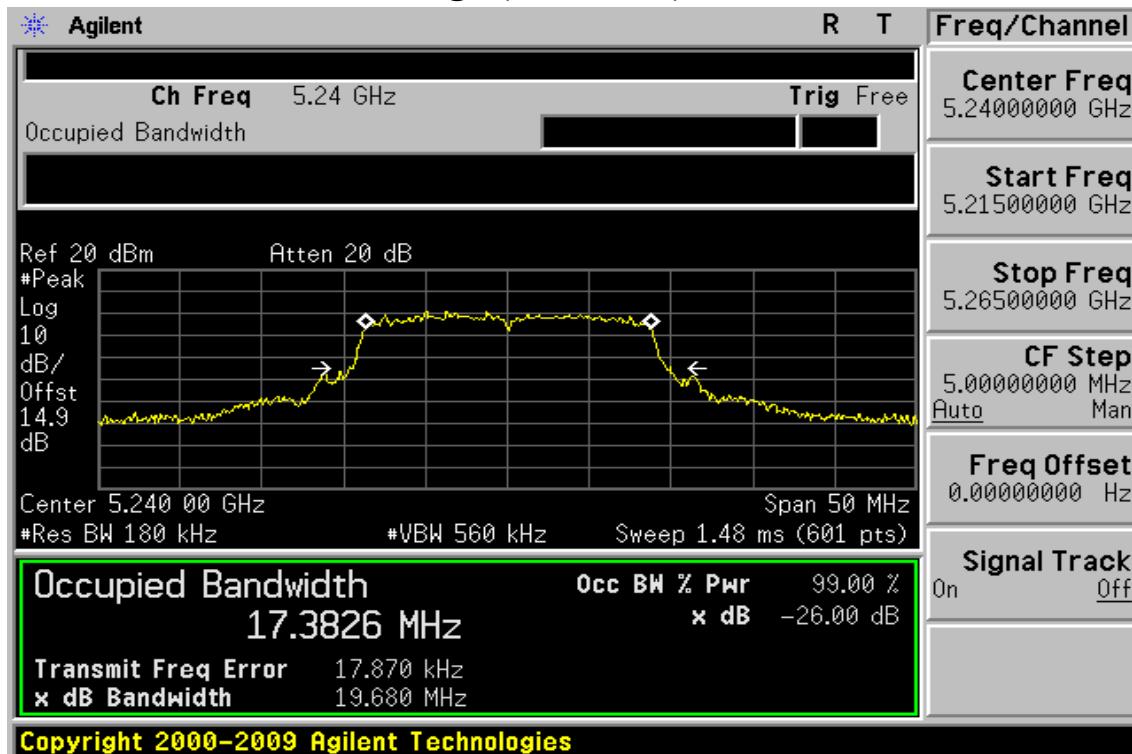
26dB Band Width Test Data CH-Mid (5220 MHz)



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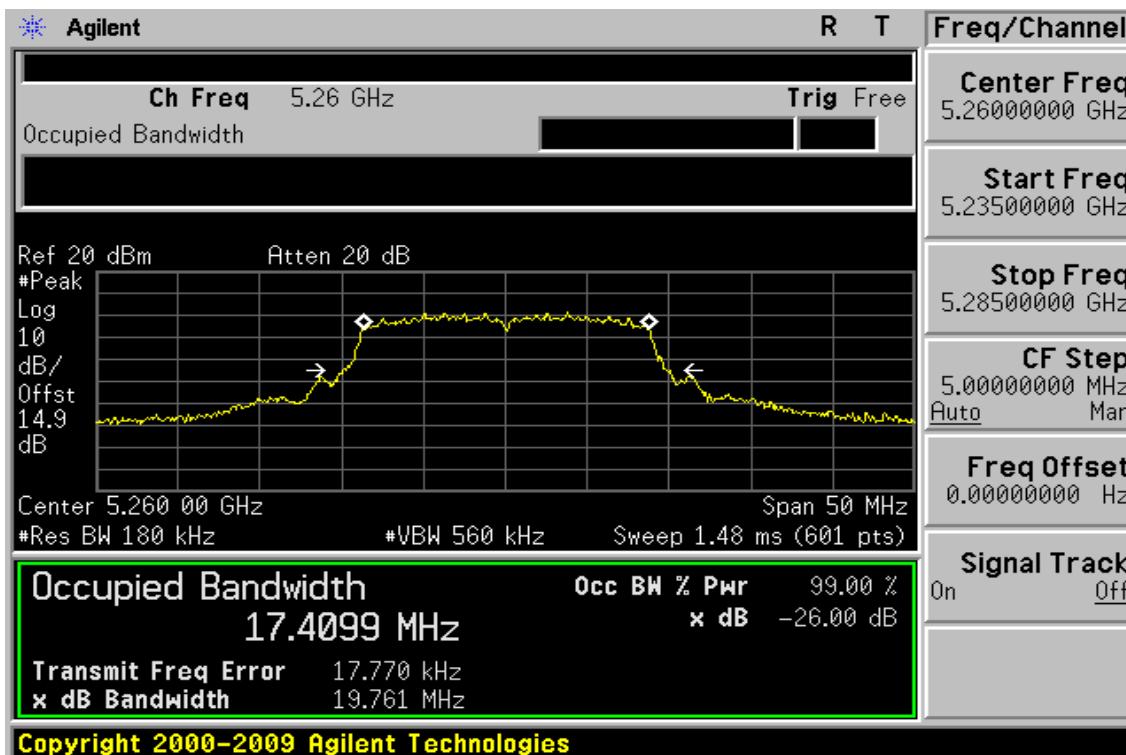
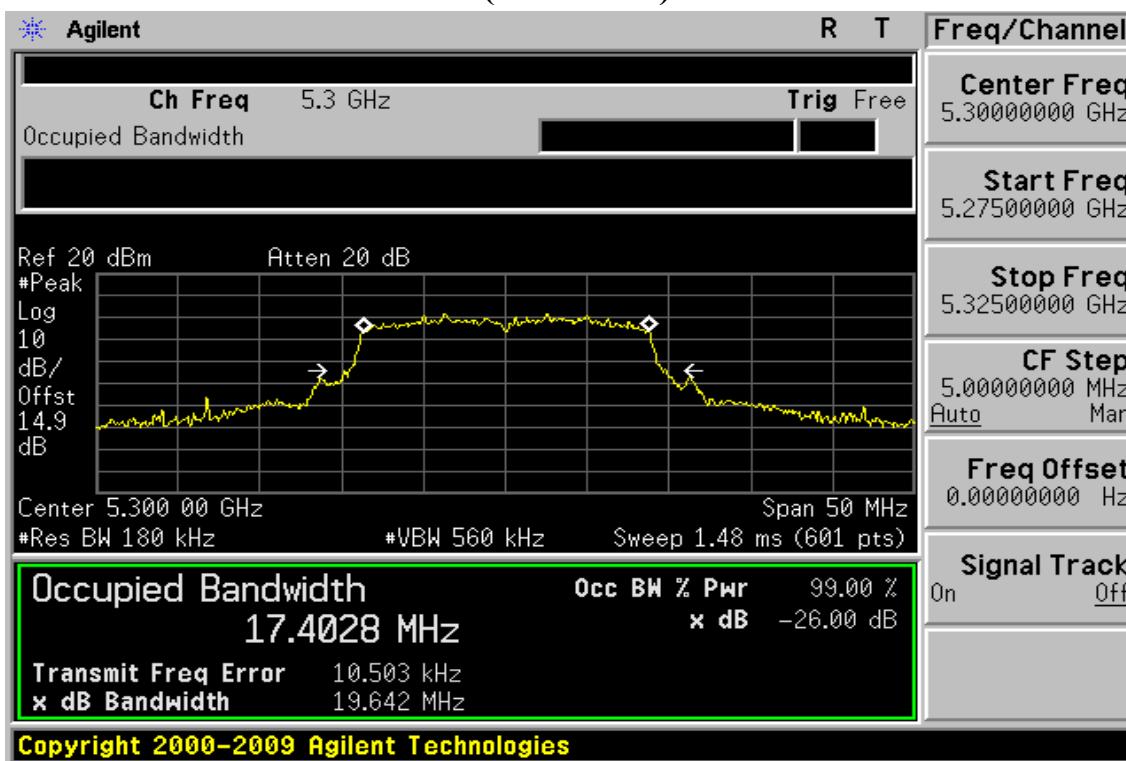
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26dB Band Width Test Data CH-High (5240 MHz)

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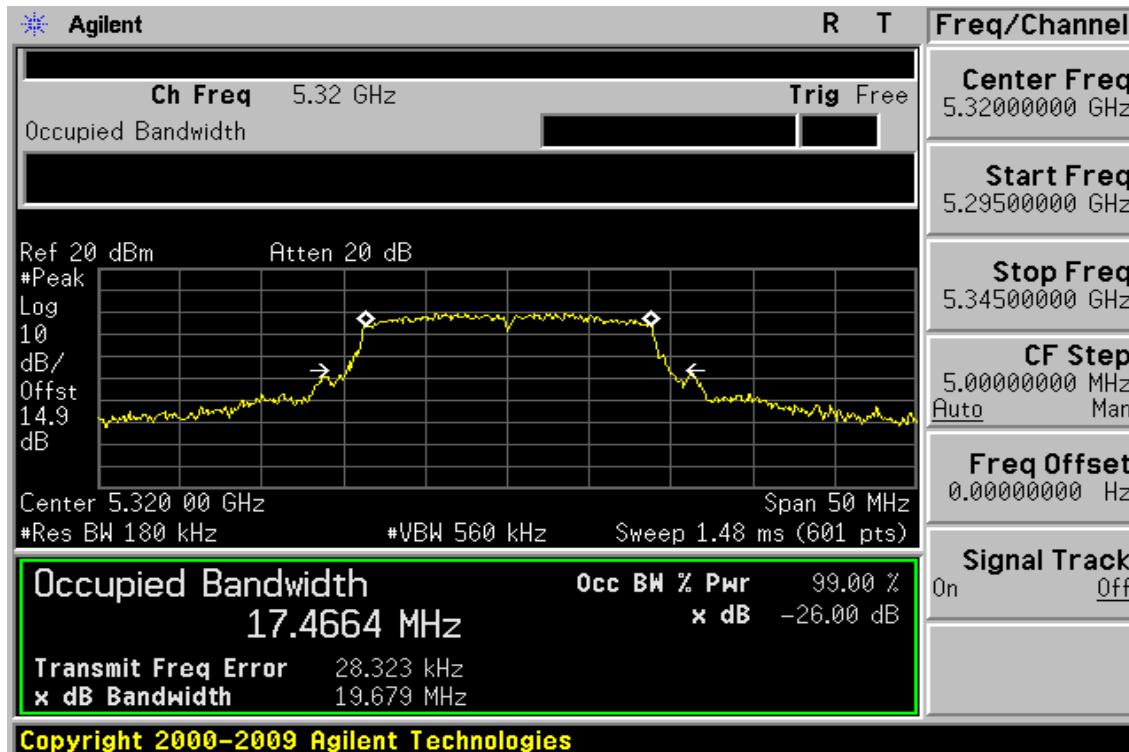
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**802.11n HT20, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260 MHz)****26dB Band Width Test Data CH-Mid (5300 MHz)**

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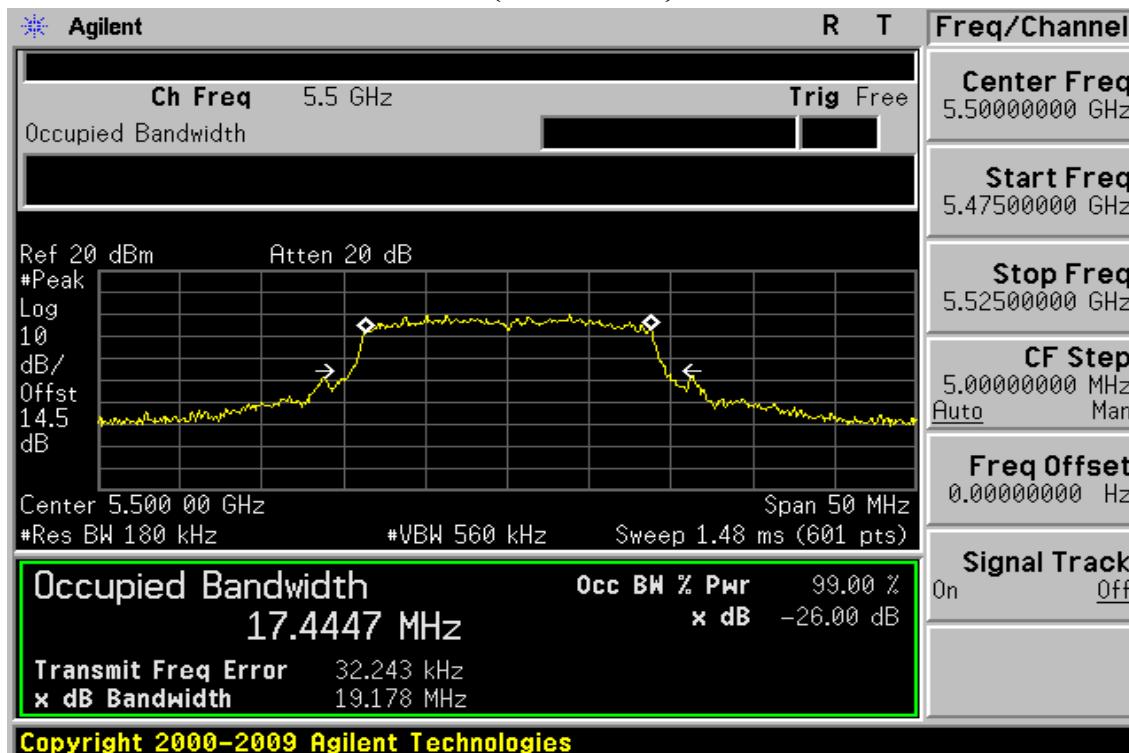
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26dB Band Width Test Data CH-High (5320 MHz)

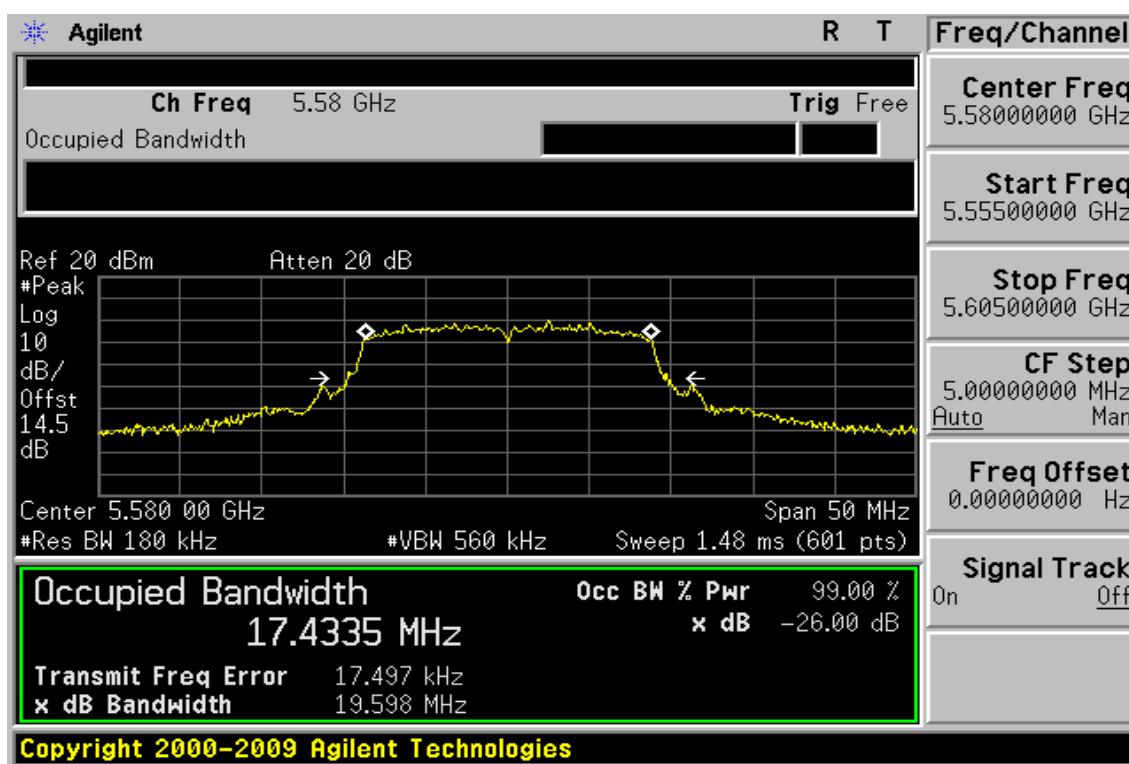
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802.11n HT20, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500 MHz)

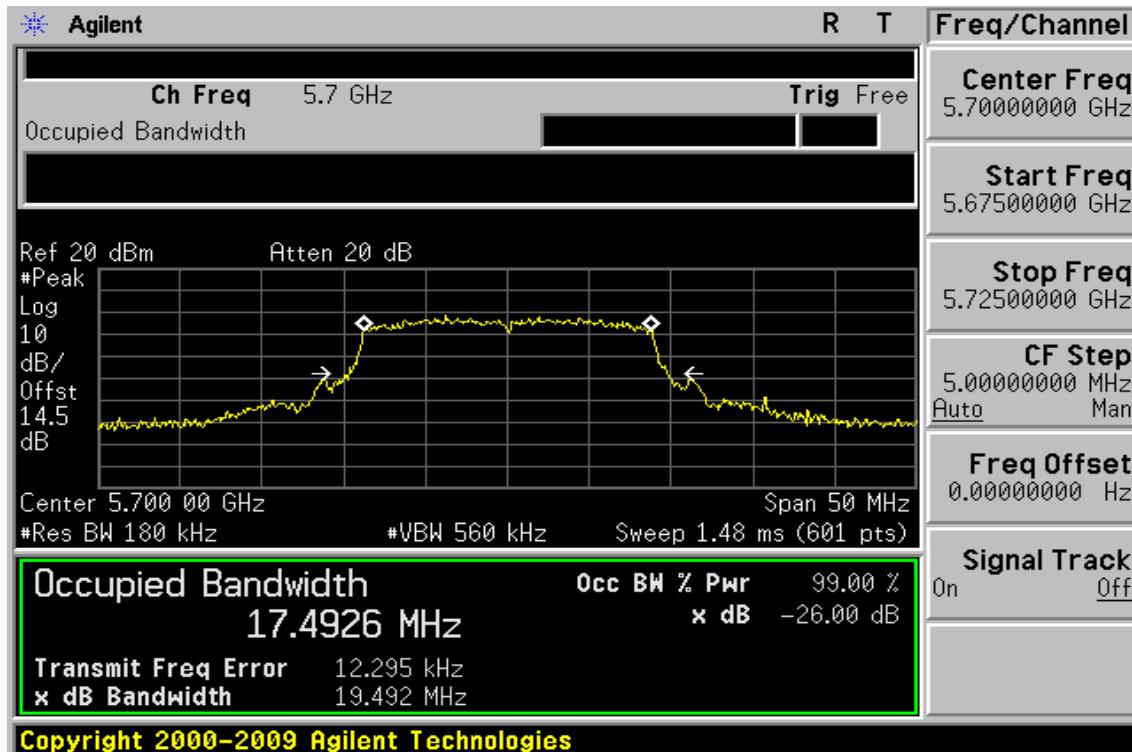
26dB Band Width Test Data CH-Mid (5580 MHz)



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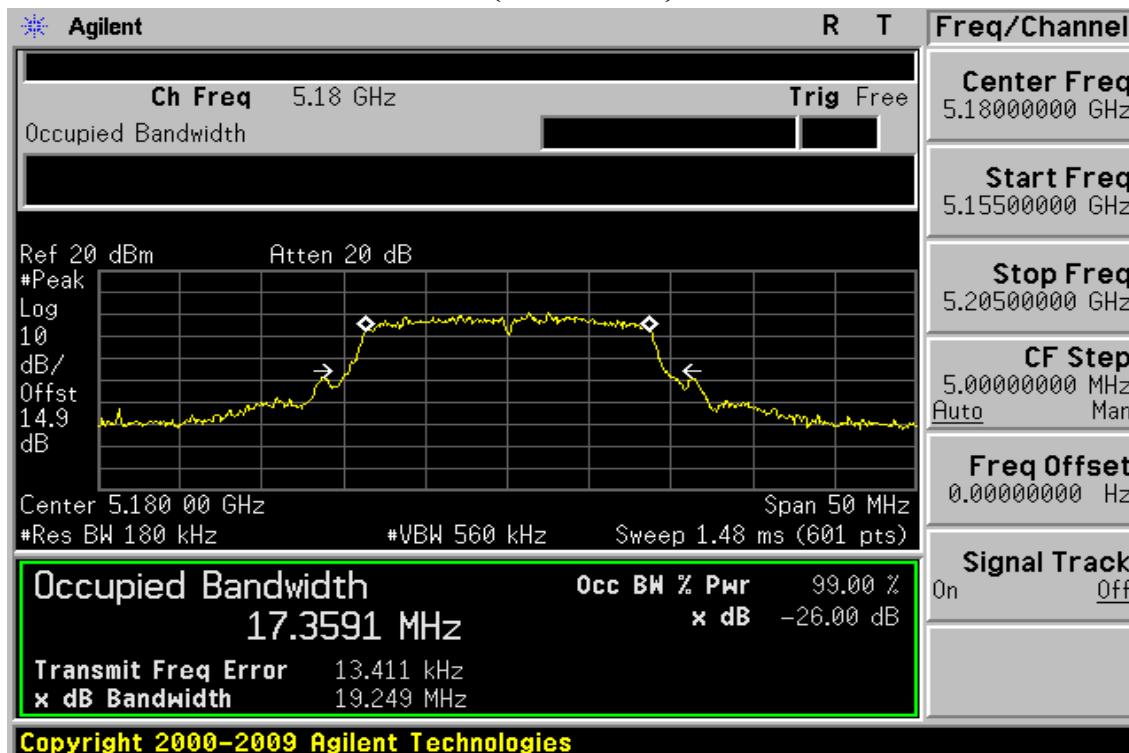
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26dB Band Width Test Data CH-High (5700 MHz)

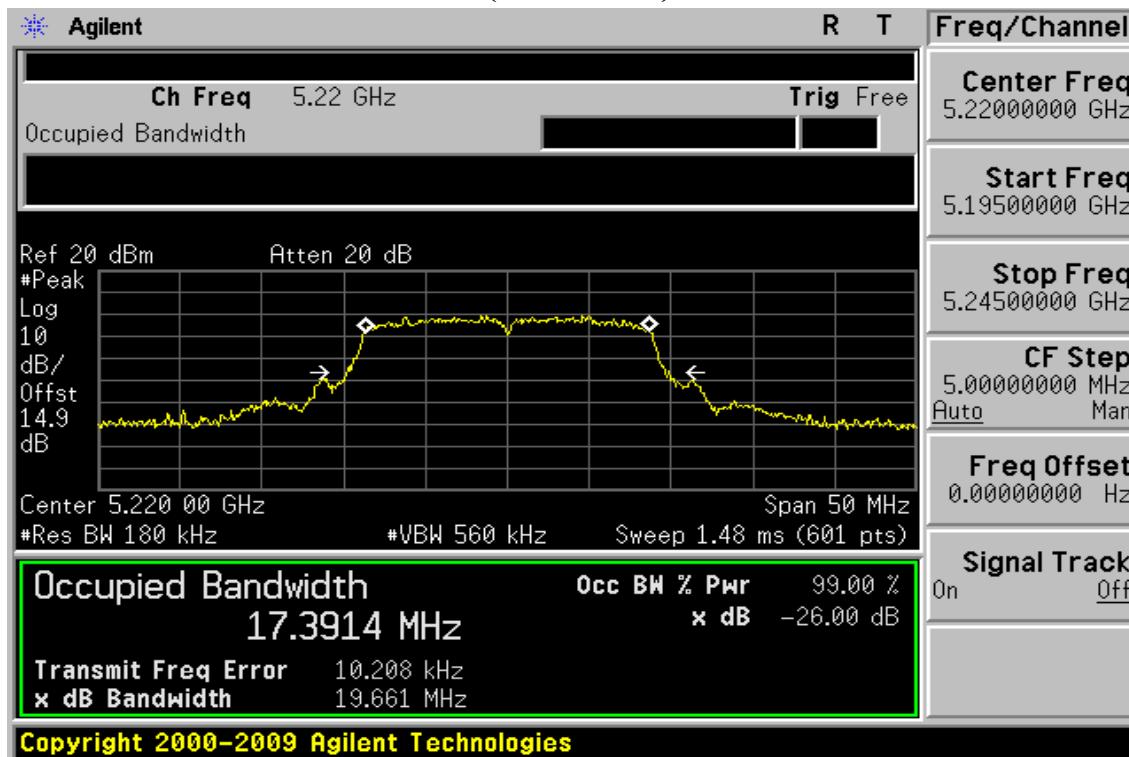
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802.11n HT20, 5150~5250 MHz, MIMO-Aux
26dB Band Width Test Data CH-Low (5180 MHz)

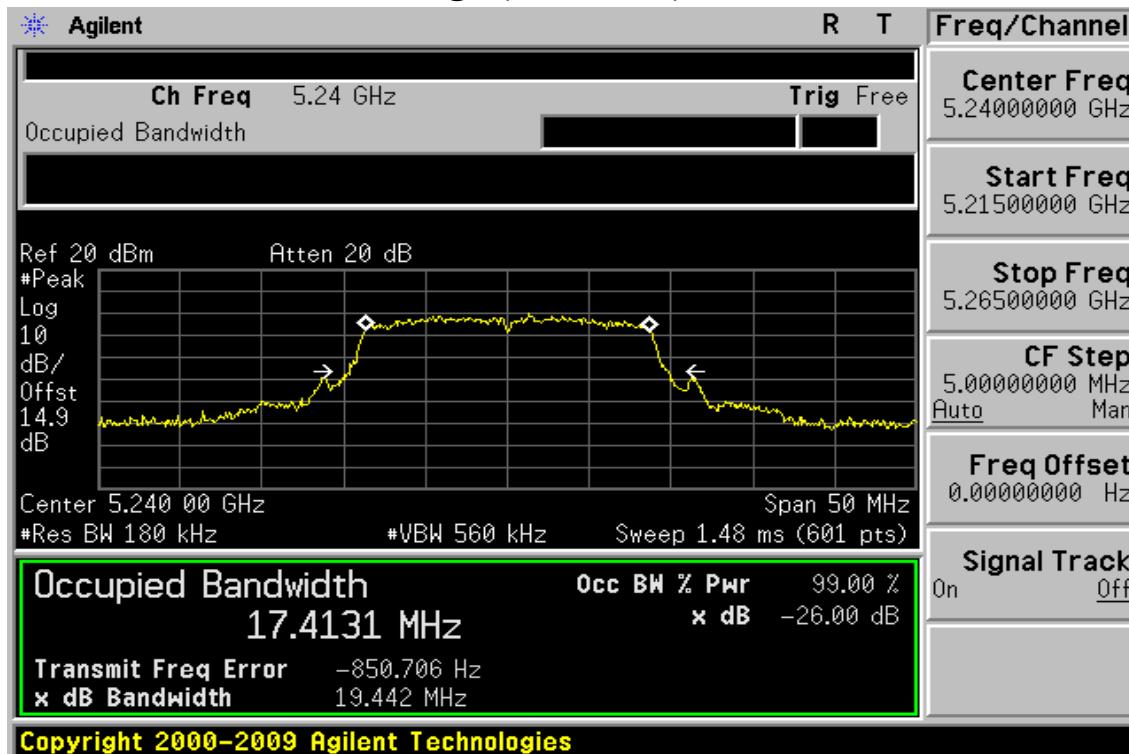
26dB Band Width Test Data CH-Mid (5220 MHz)

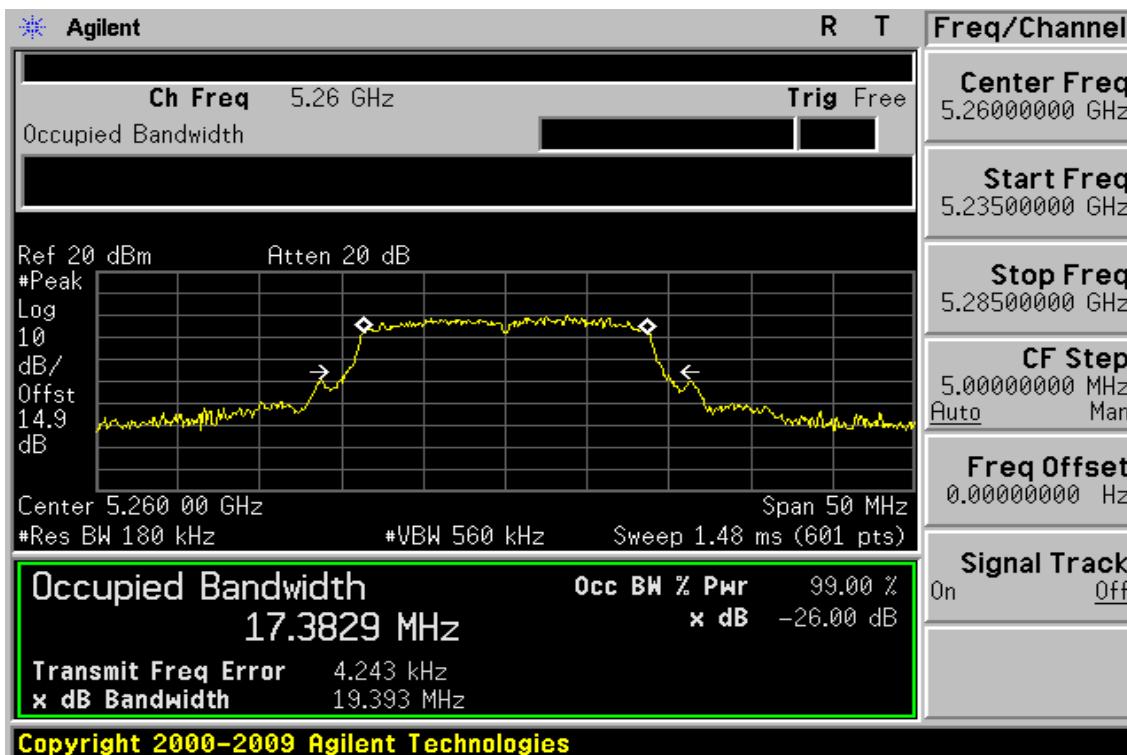


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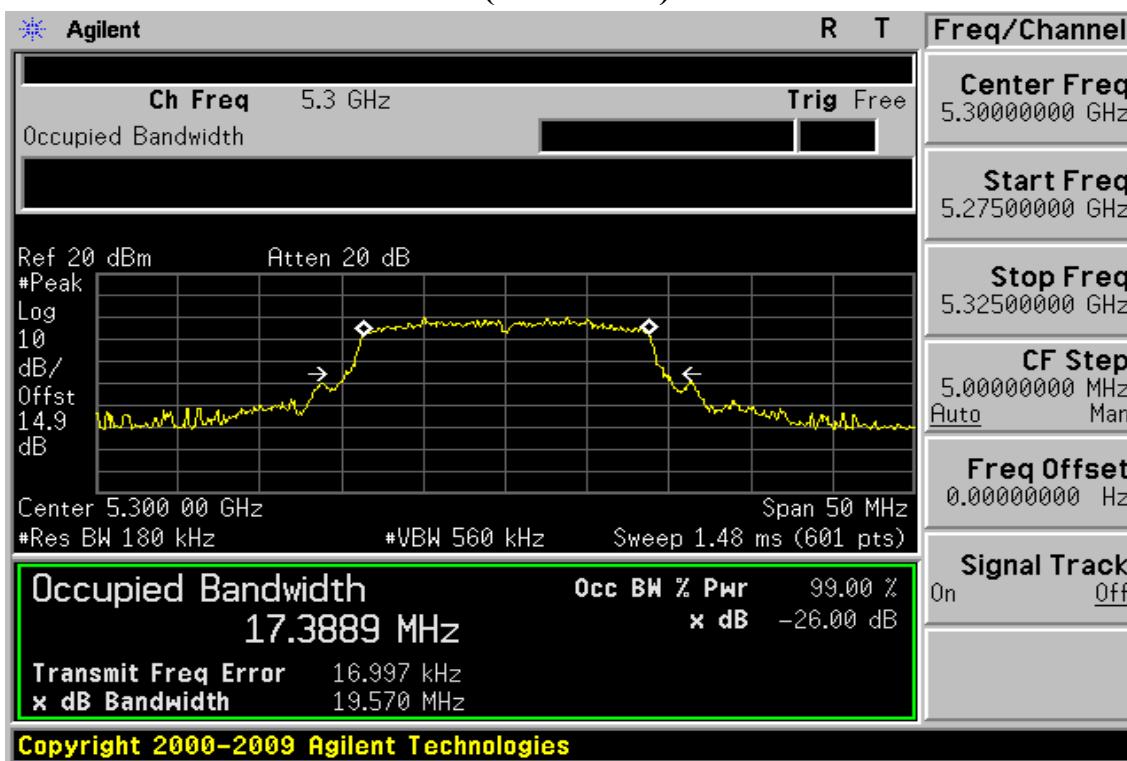
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26dB Band Width Test Data CH-High (5240 MHz)

802.11n HT20, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260 MHz)

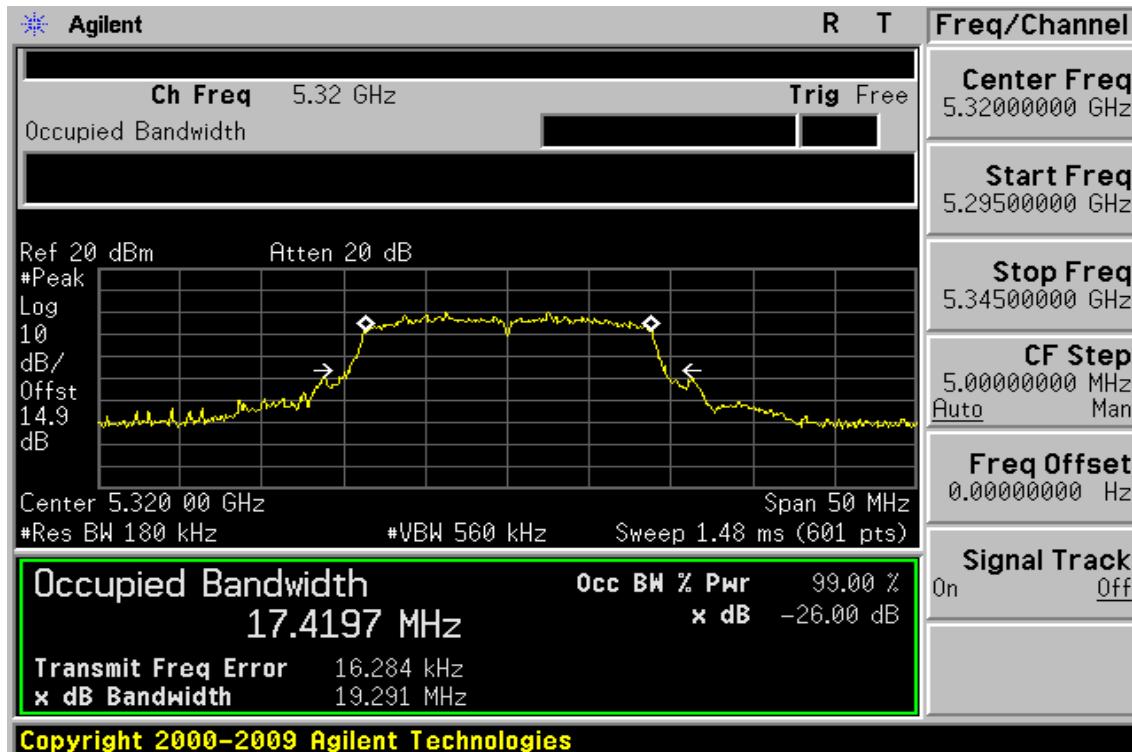
26dB Band Width Test Data CH-Mid (5300 MHz)



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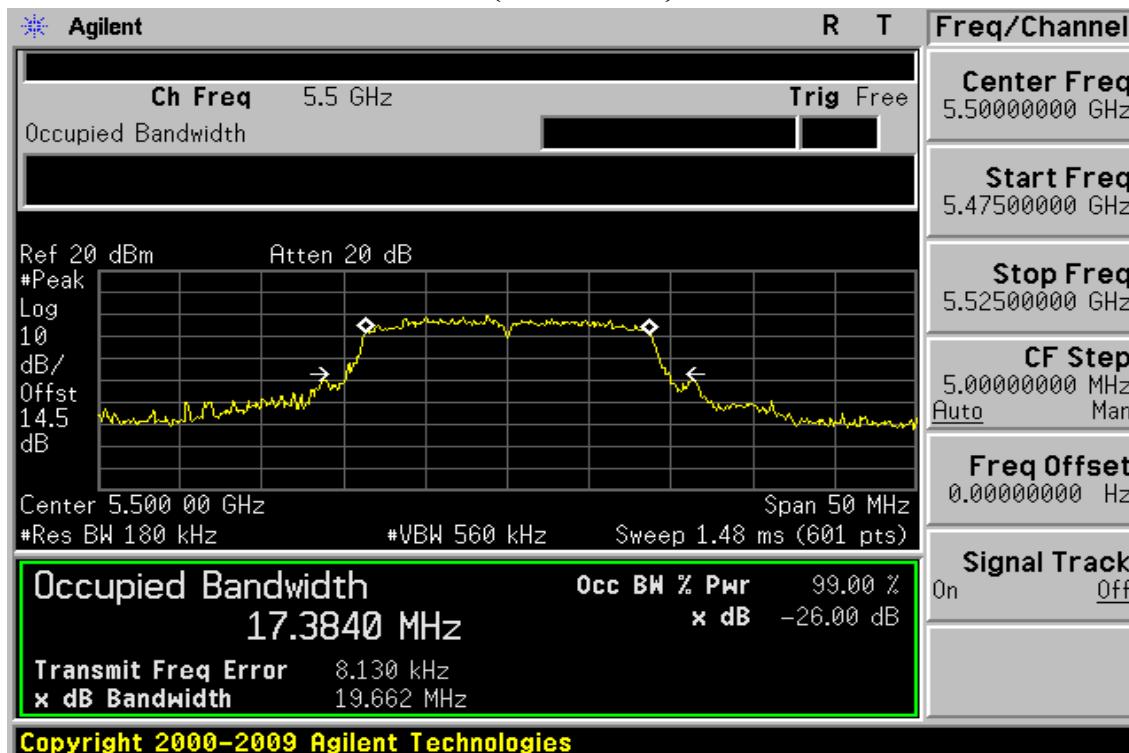
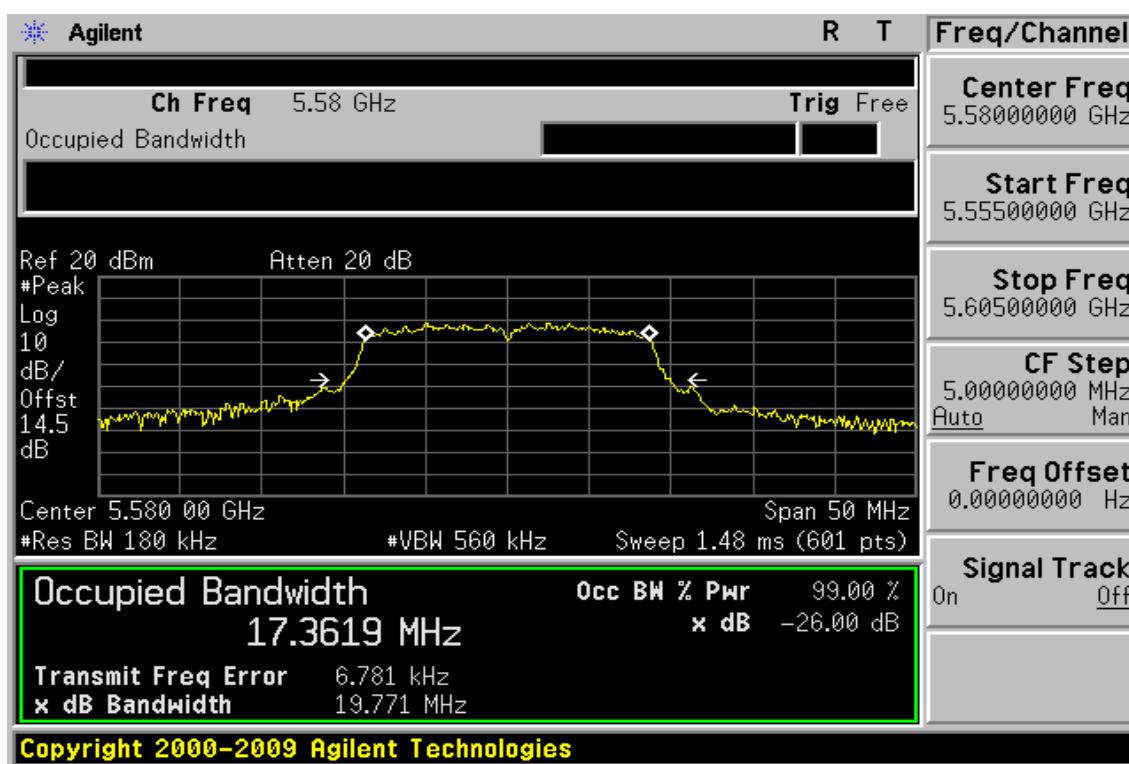
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26dB Band Width Test Data CH-High (5320 MHz)

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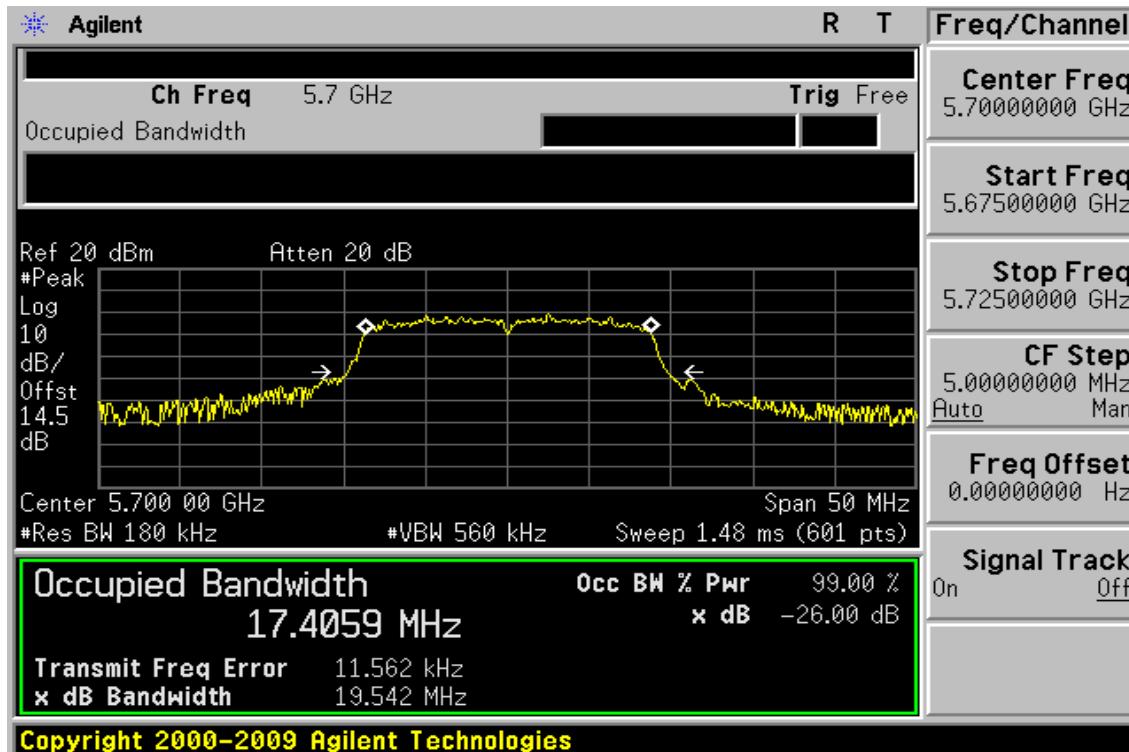
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**802.11n HT20, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500 MHz)****26dB Band Width Test Data CH-Mid (5580 MHz)**

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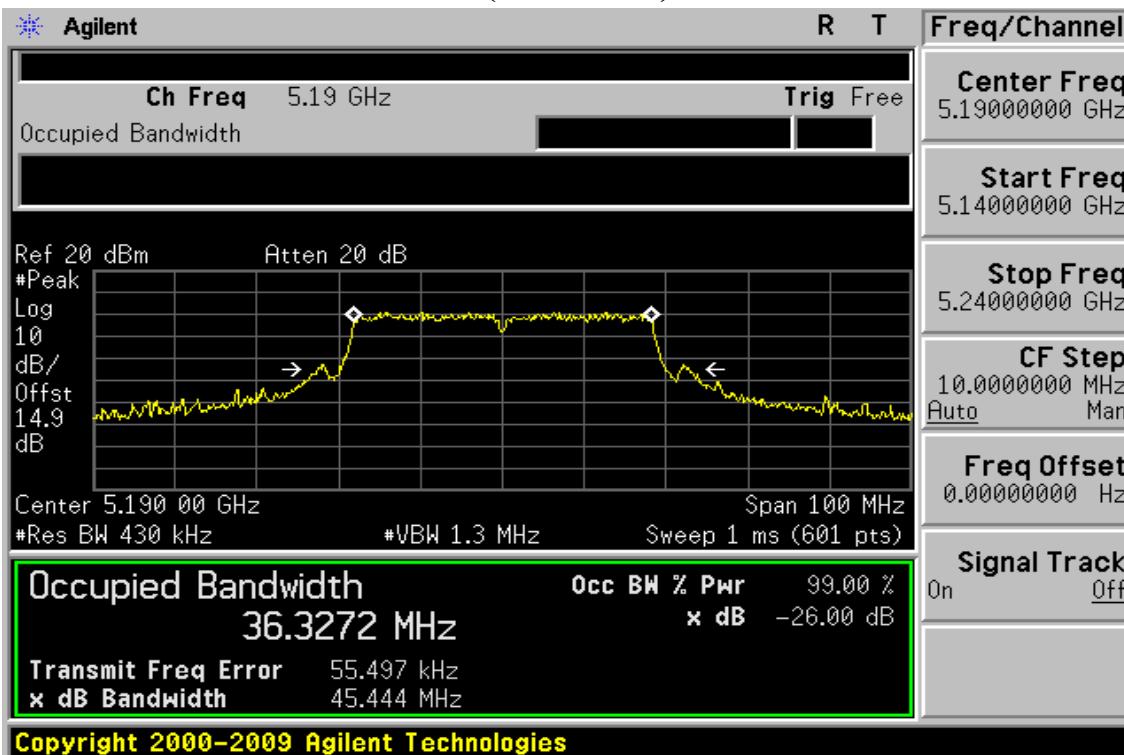
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26dB Band Width Test Data CH-High (5700 MHz)

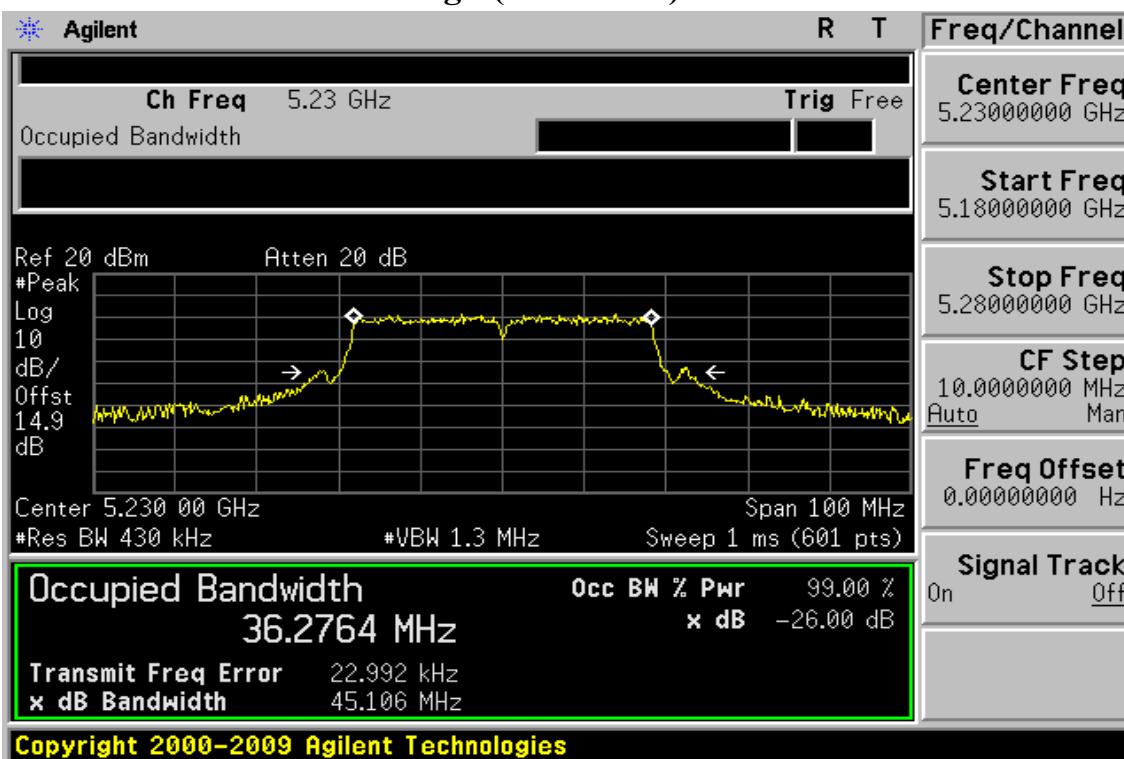
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802.11n HT40, 5150~5250 MHz, MIMO-Main
26dB Band Width Test Data CH-Low (5190 MHz)

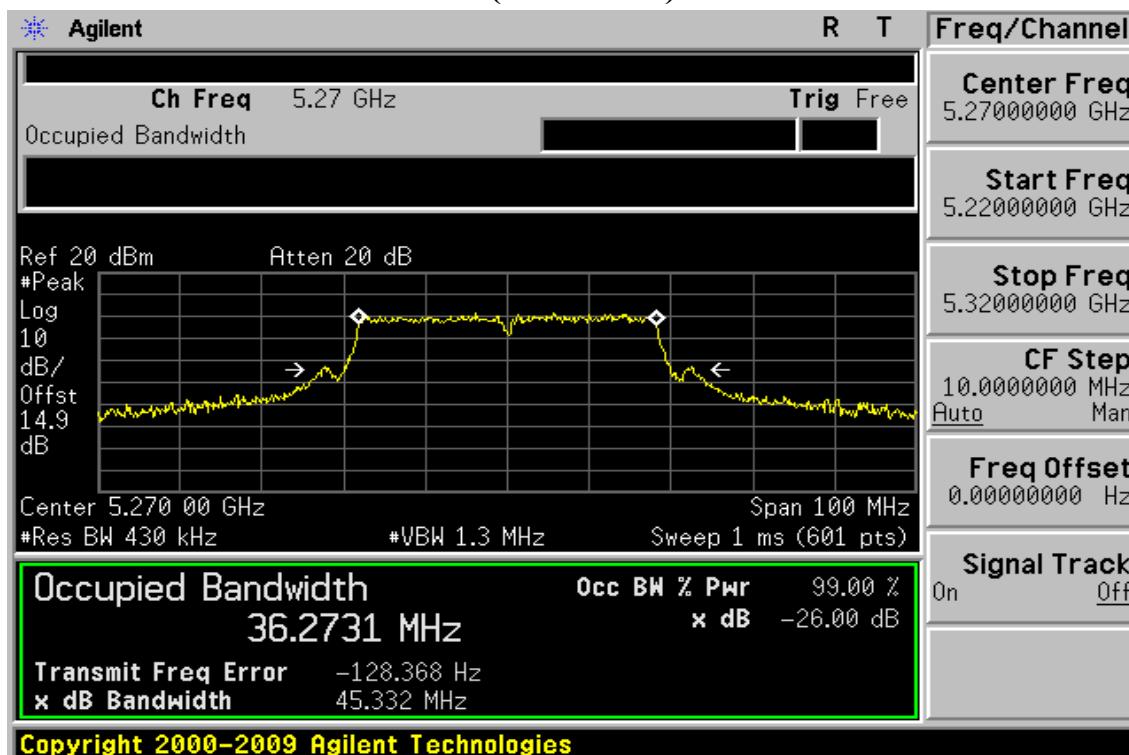
26dB Band Width Test Data CH-High (5230 MHz)



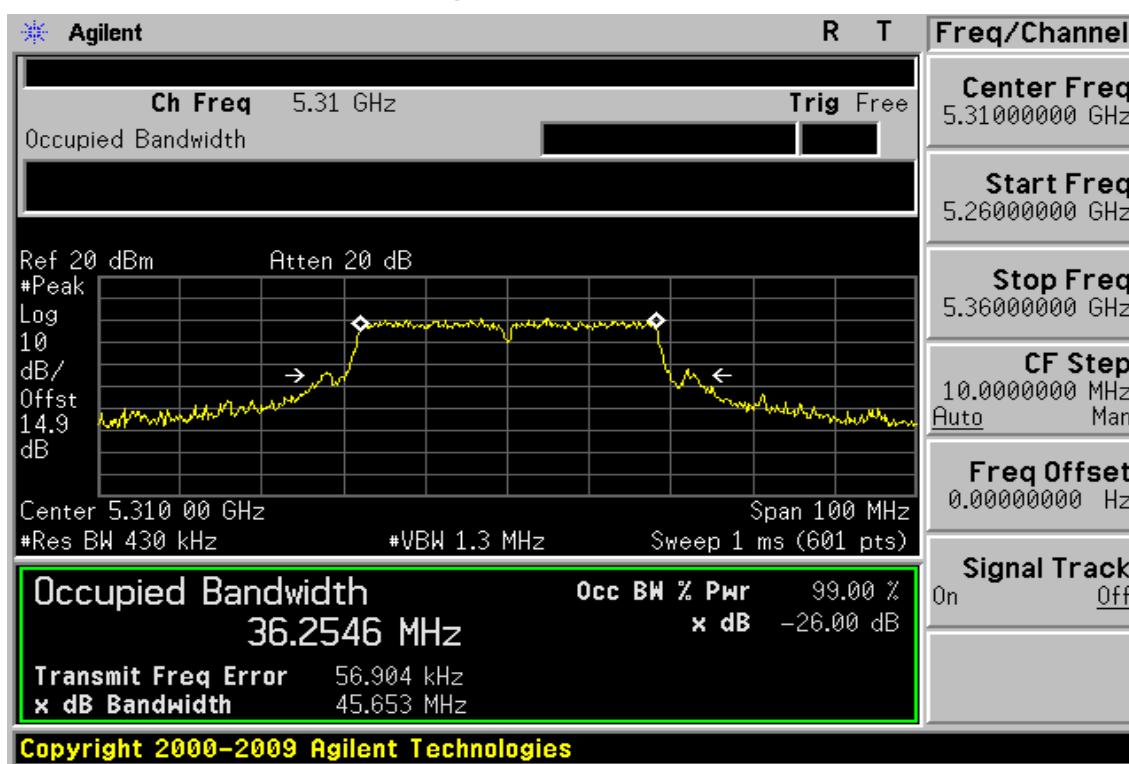
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802.11n HT40, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5270 MHz)

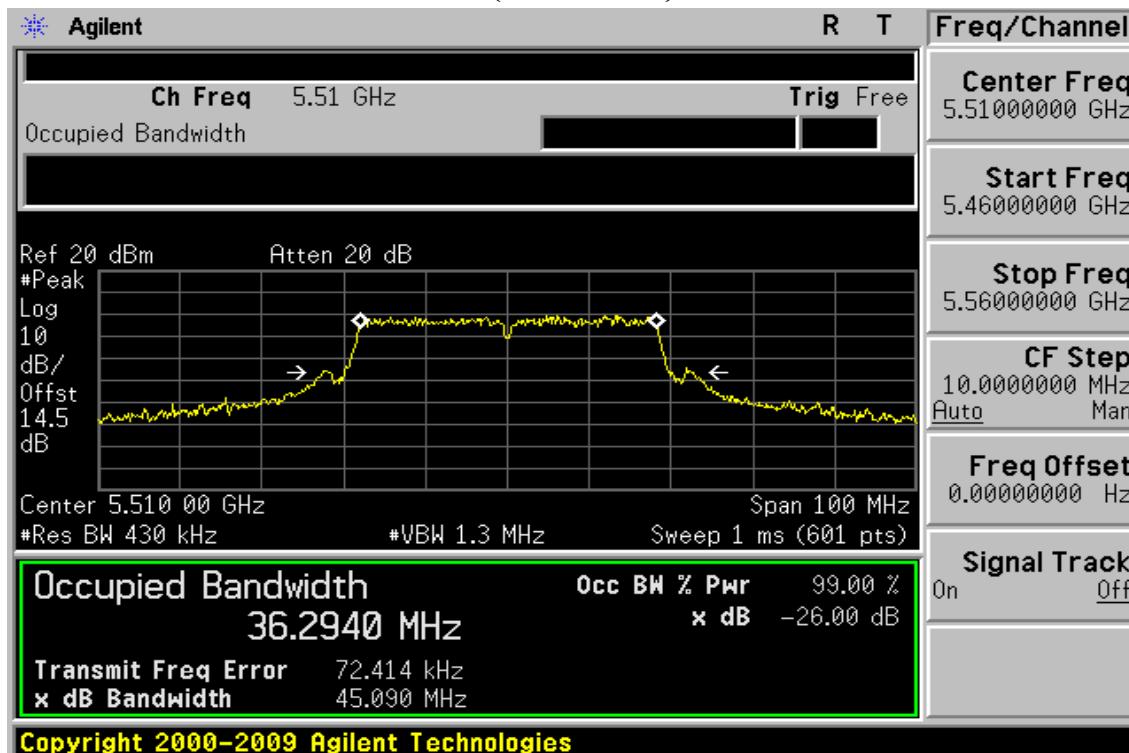
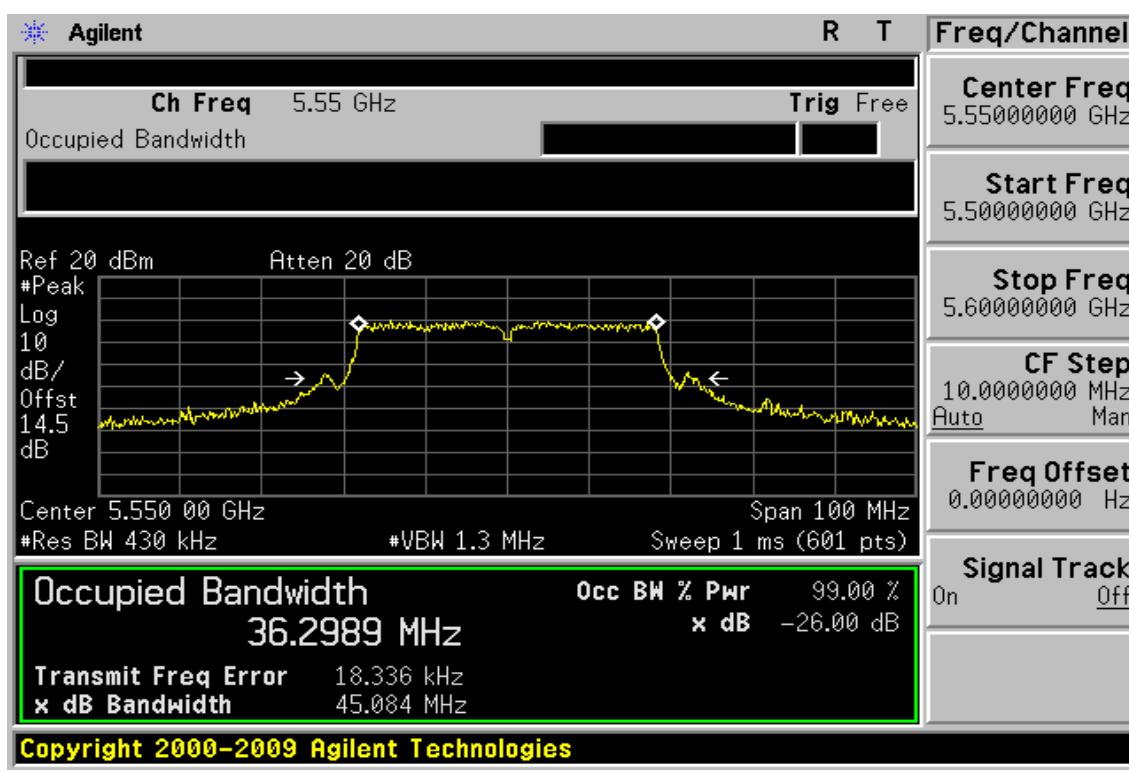
26dB Band Width Test Data CH-High (5310MHz)



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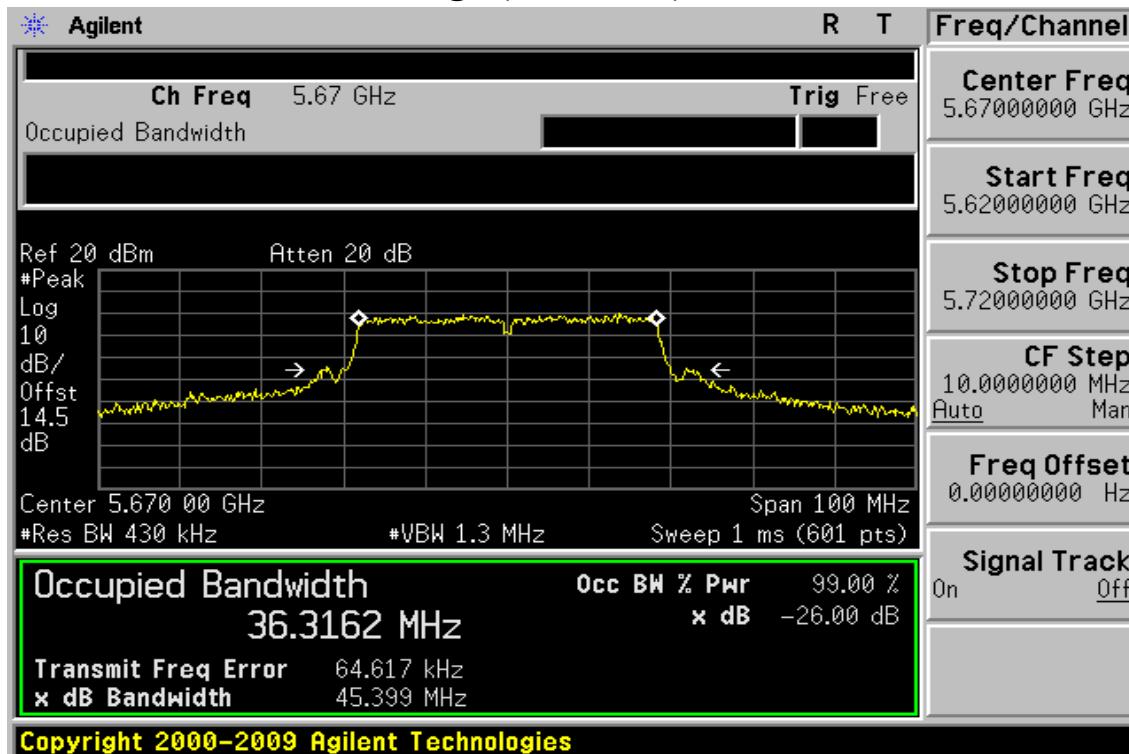
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**802.11n HT40, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5510 MHz)****26dB Band Width Test Data CH-Mid (5550 MHz)**

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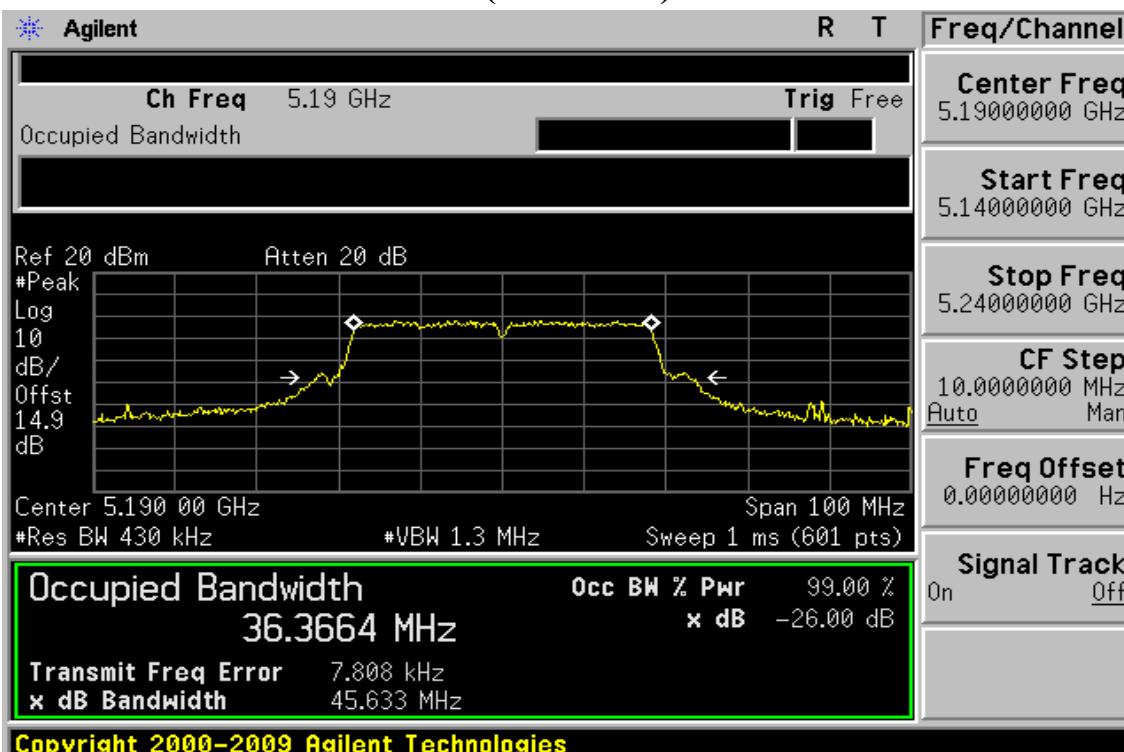
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26dB Band Width Test Data CH-High (5670 MHz)

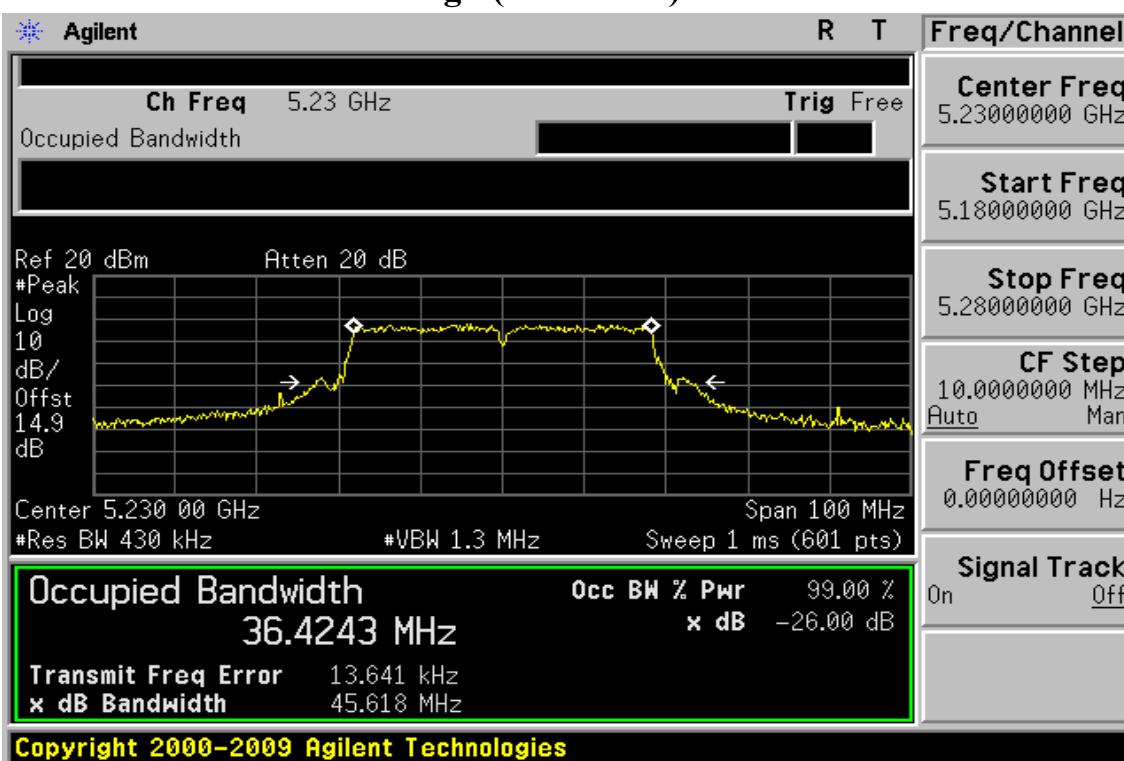
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802.11n HT40, 5150~5250 MHz, MIMO-Aux
26dB Band Width Test Data CH-Low (5190 MHz)

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

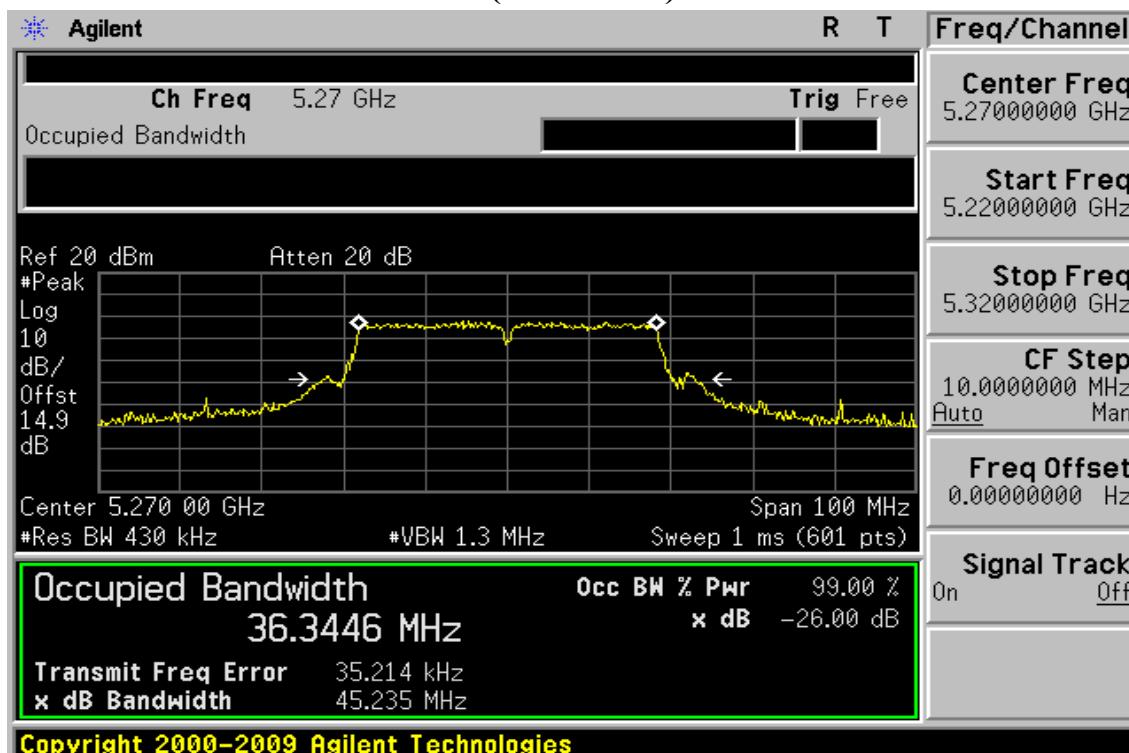


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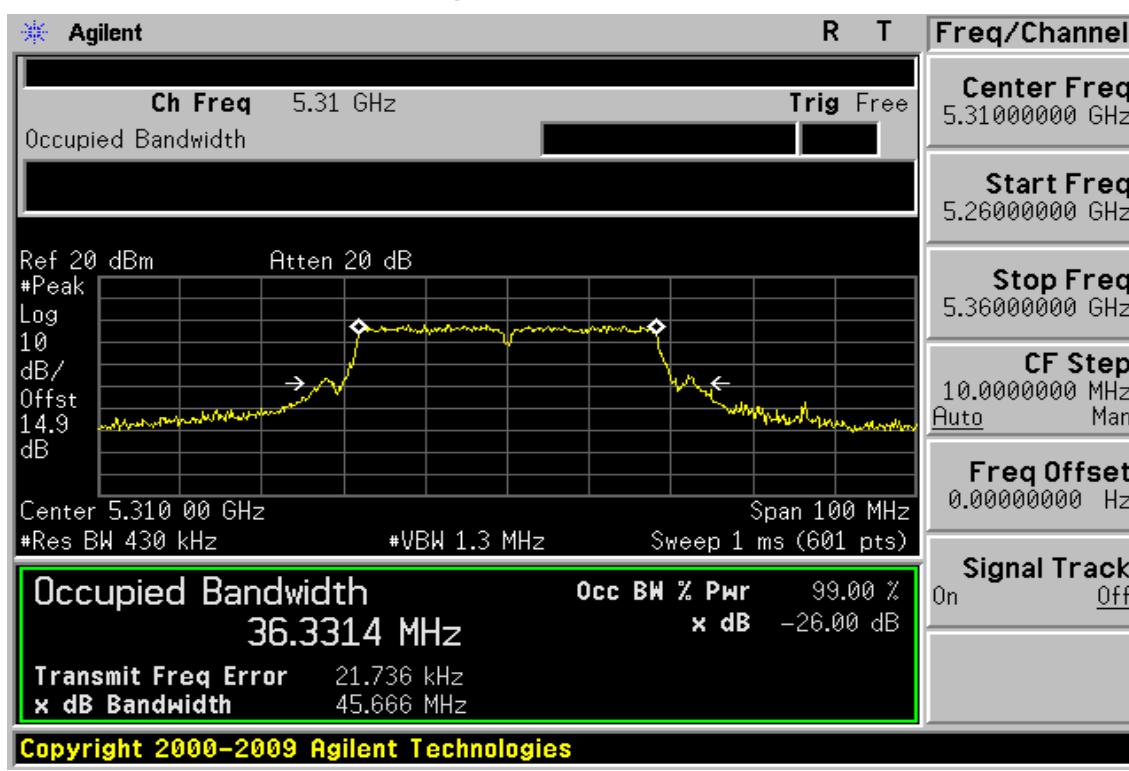
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802.11n HT40, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5270 MHz)



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

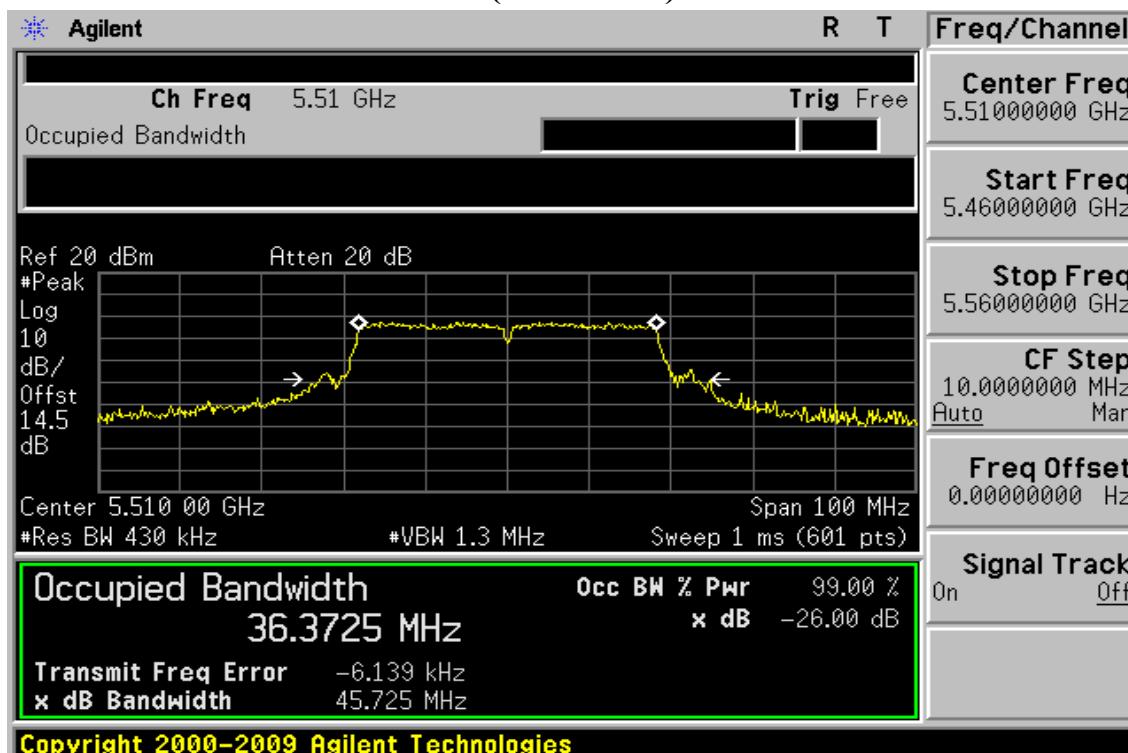


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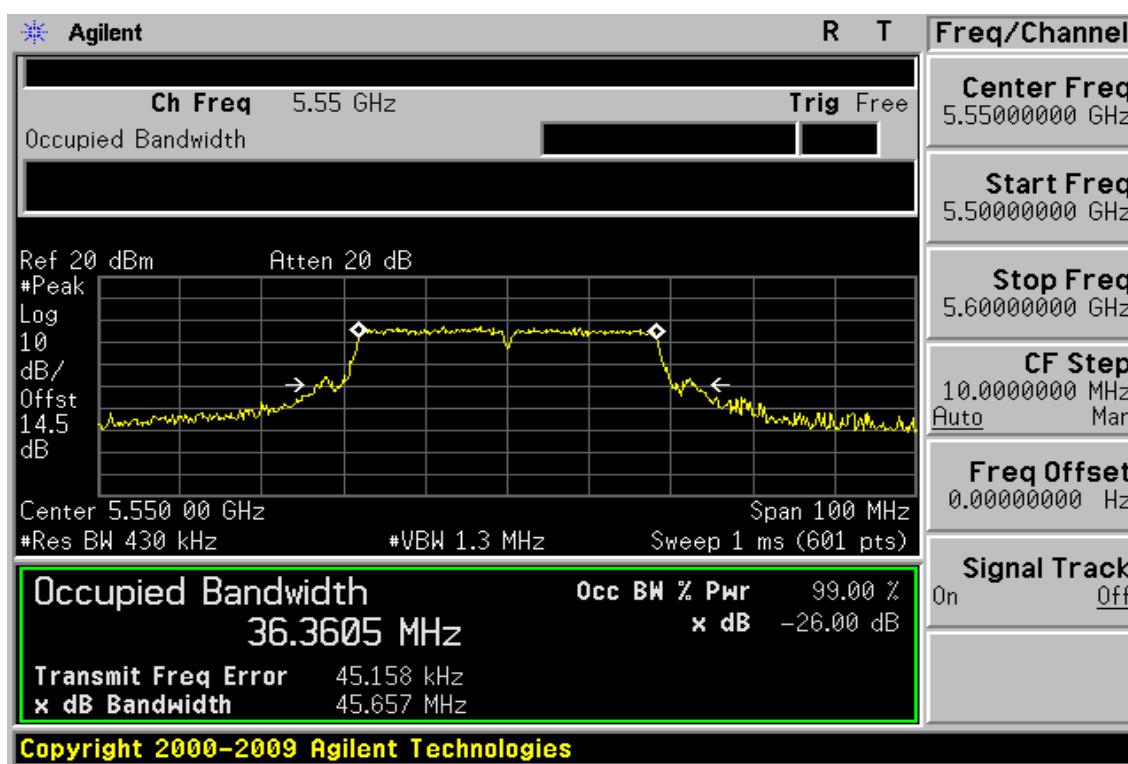
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802.11n HT40, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5510 MHz)



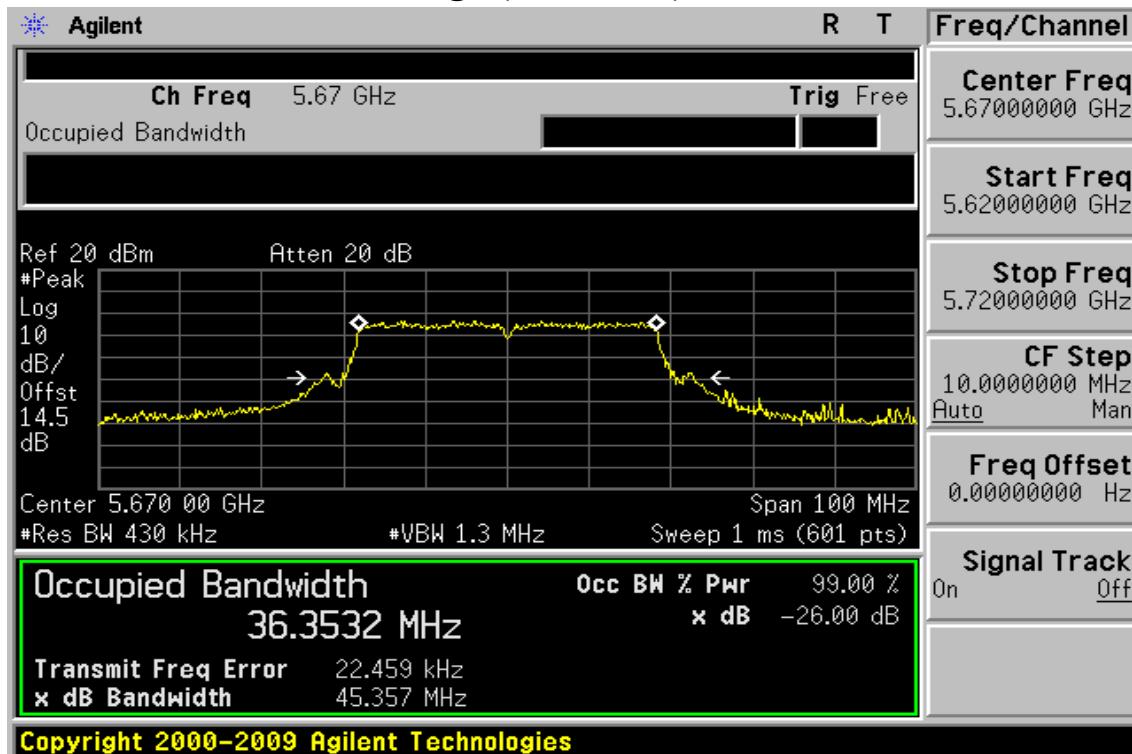
26dB Band Width Test Data CH-Mid (5550 MHz)



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

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7.6 Measurement Result

99% Bandwidth

802.11a, 5150~5250 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	16.3386	12.13
5220	16.4161	12.15
5240	16.2583	12.11

802.11a, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5260	16.2910	12.12
5300	16.3704	12.14
5320	16.2698	12.11

802.11a, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5500	16.2914	12.12
5580	16.3230	12.13
5700	16.3217	12.13

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802.11n HT20, 5150~5250 MHz, MIMO-Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.4212	12.41
5220	17.4627	12.42
5240	17.3826	12.40

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5260	17.4099	12.41
5300	17.4028	12.41
5320	17.4664	12.42

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5500	17.4447	12.42
5580	17.4335	12.41
5700	17.4926	12.43

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802.11n HT20, 5150~5250 MHz, MIMO-Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.3591	12.40
5220	17.3914	12.40
5240	17.4131	12.41

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5260	17.3829	12.40
5300	17.3889	12.40
5320	17.4197	12.41

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5500	17.3840	12.40
5580	17.3619	12.40
5700	17.4059	12.41

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802.11n HT40, 5150~5250 MHz, MIMO-Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	36.3272	15.60
5230	36.2764	15.60

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5270	36.2731	15.60
5310	36.2546	15.59

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5510	36.2940	15.60
5550	36.2989	15.60
5670	36.3162	15.60

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802.11n HT40, 5150~5250 MHz, MIMO-Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	36.3664	15.61
5230	36.4243	15.61

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5270	36.3446	15.60
5310	36.3314	15.60

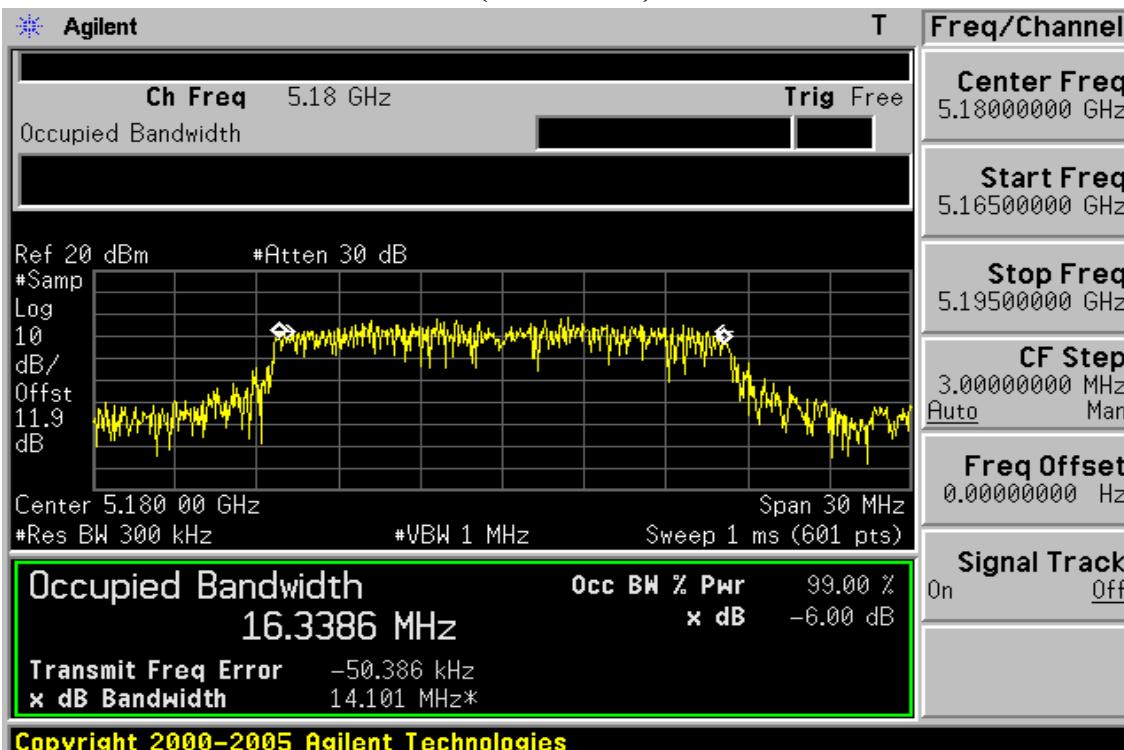
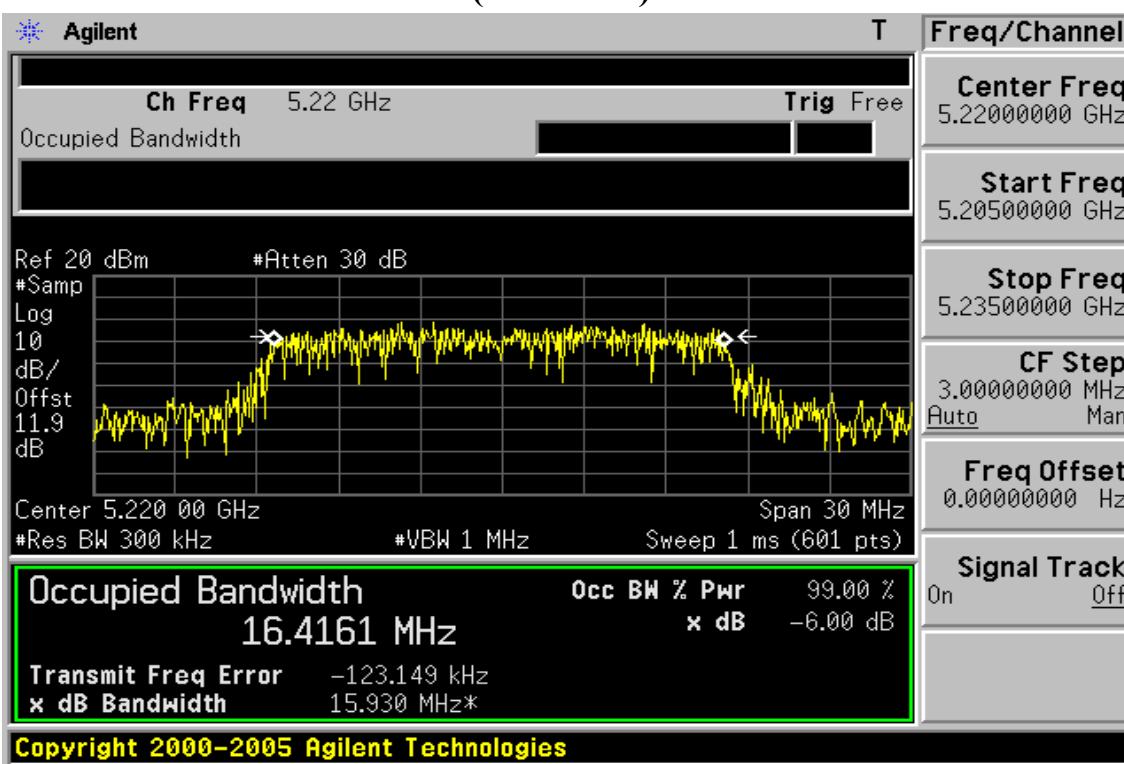
802.11n HT40, 5470~5725 MHz

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5510	36.3725	15.61
5550	36.3605	15.61
5670	36.3532	15.61

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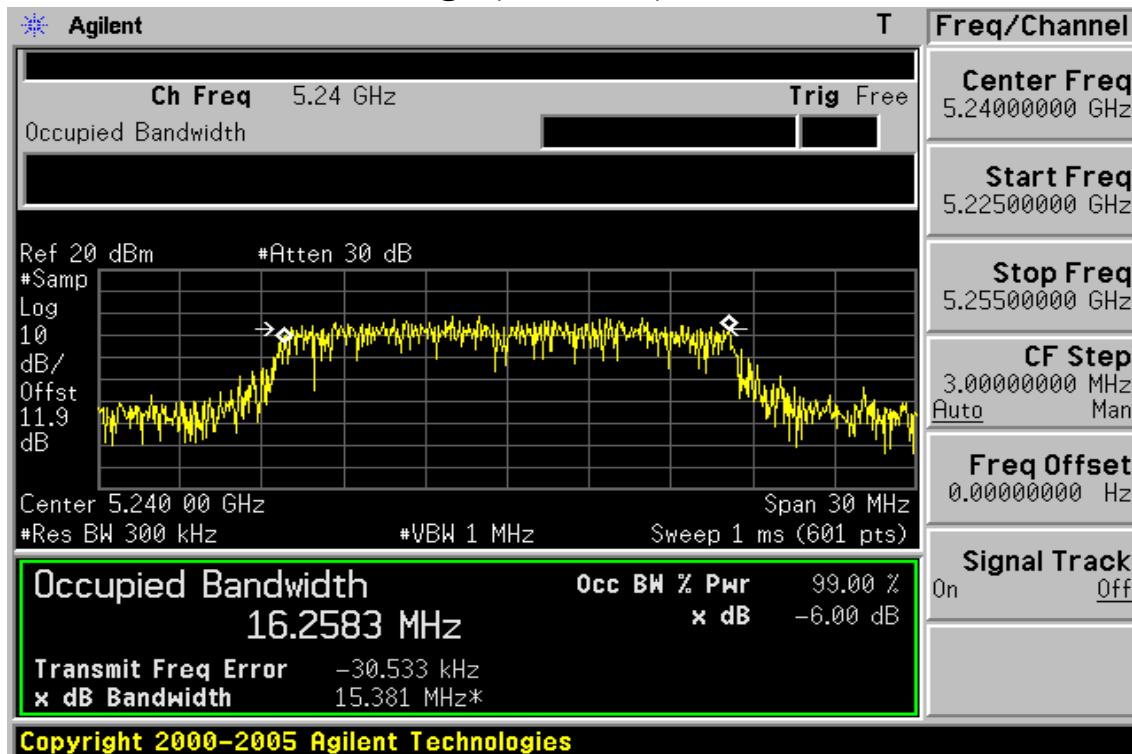
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802.11a, 5150~5250 MHz**99% Band Width Test Data CH-Low (5180MHz)****99% Band Width Test Data CH-Mid (5220MHz)**

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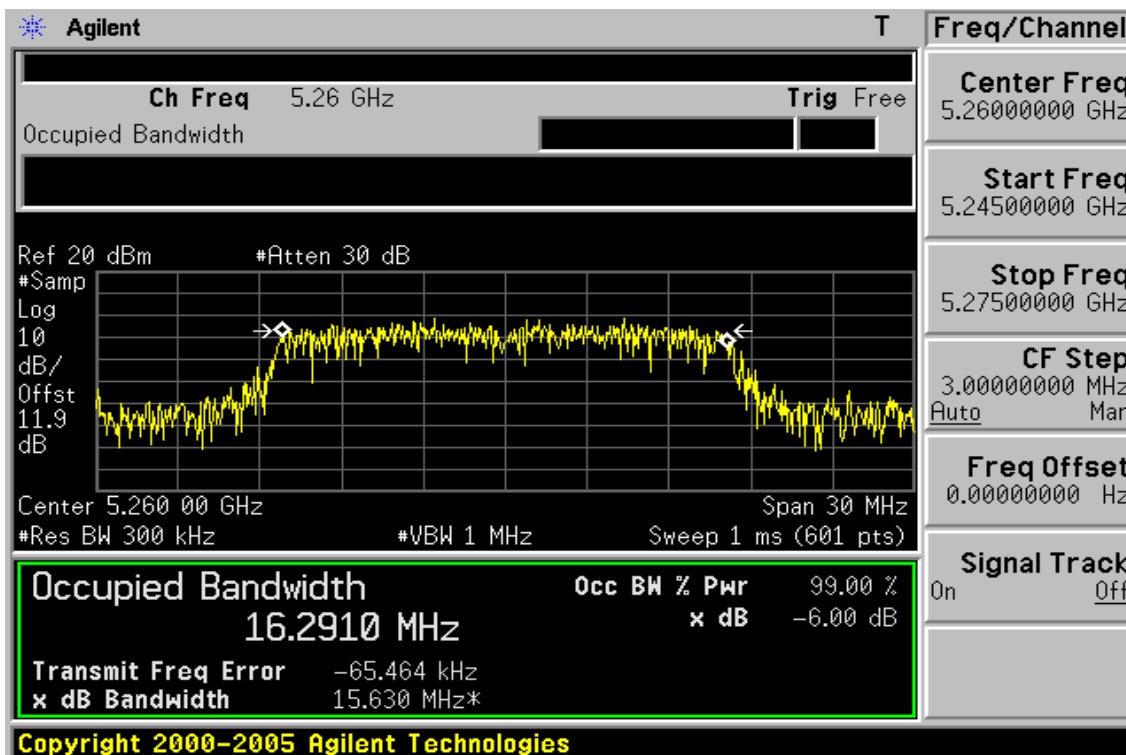
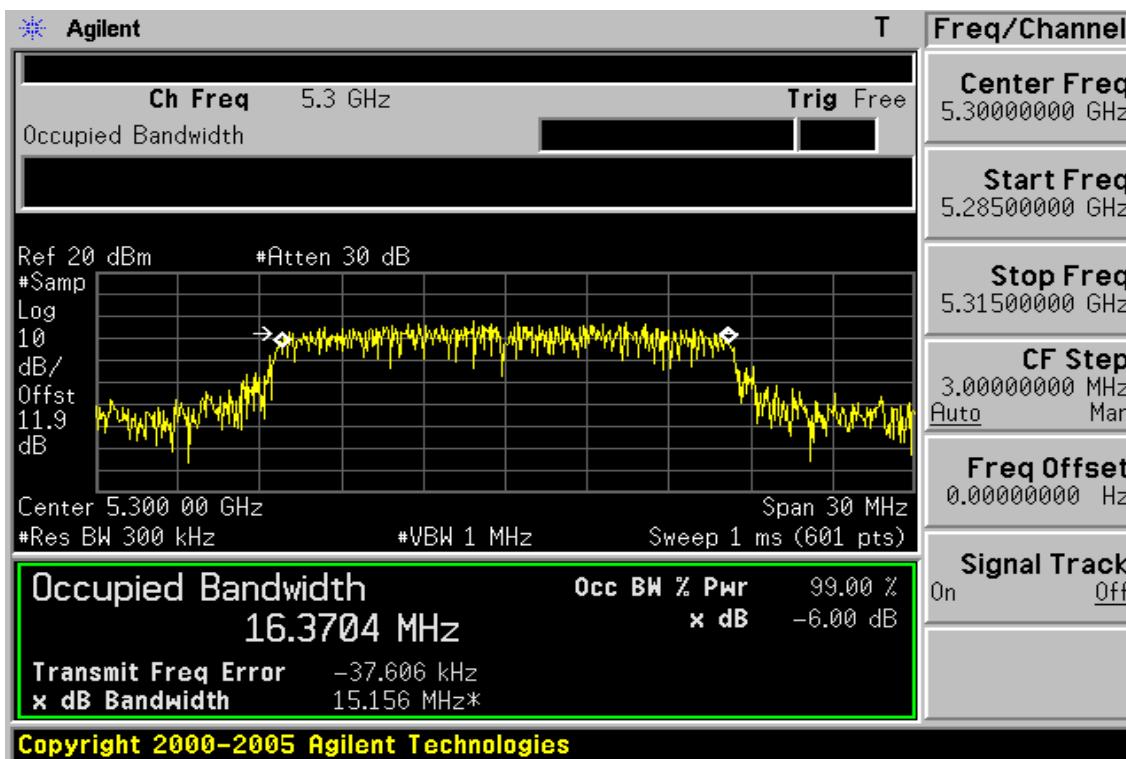
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99% Band Width Test Data CH-High (5240MHz)

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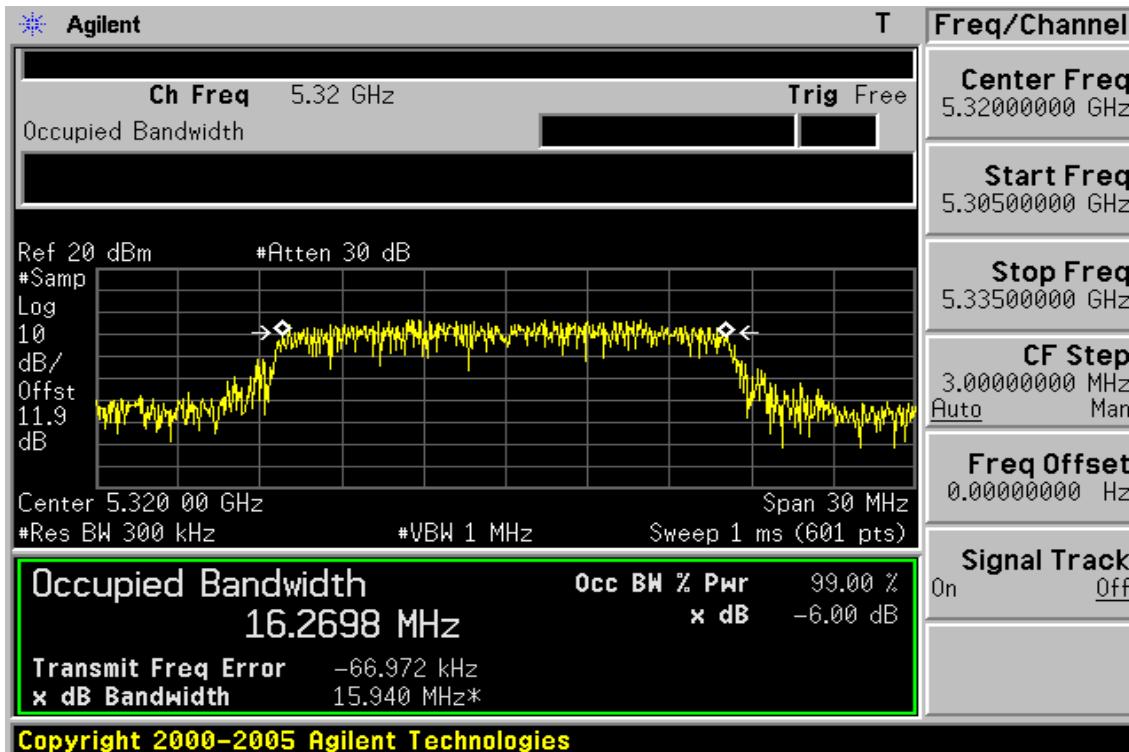
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802.11a, 5250~5350 MHz**99% Band Width Test Data CH-Low (5260MHz)****99% Band Width Test Data CH-Mid (5300MHz)**

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

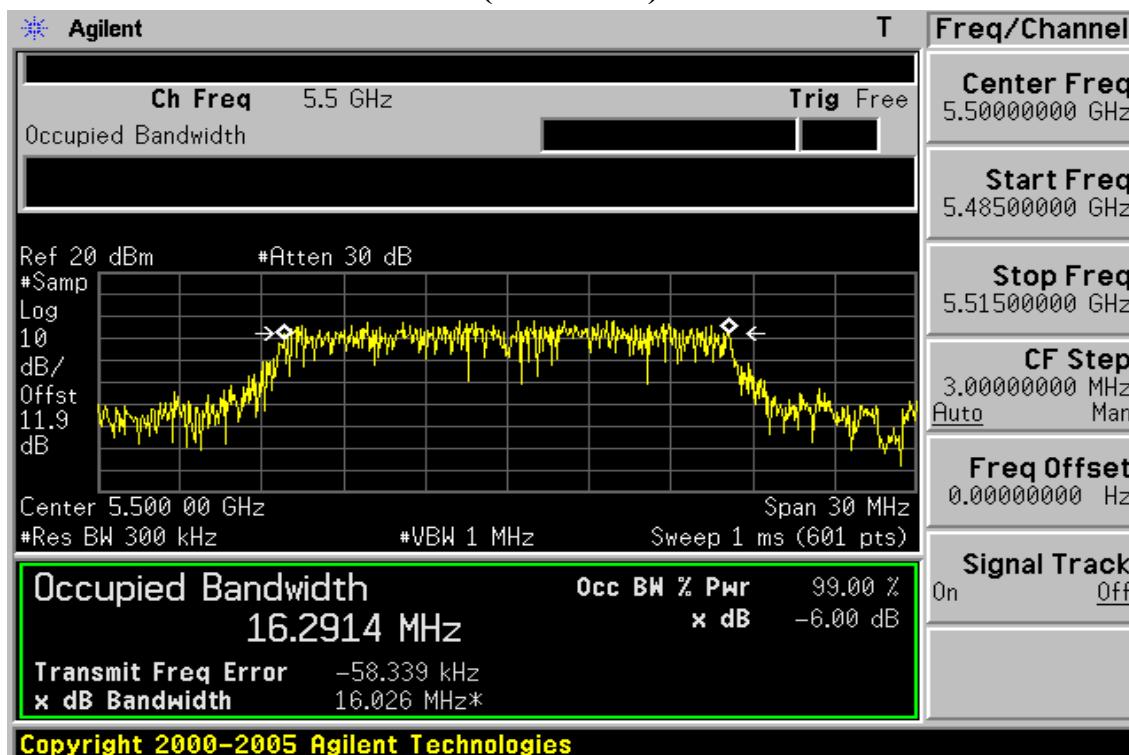
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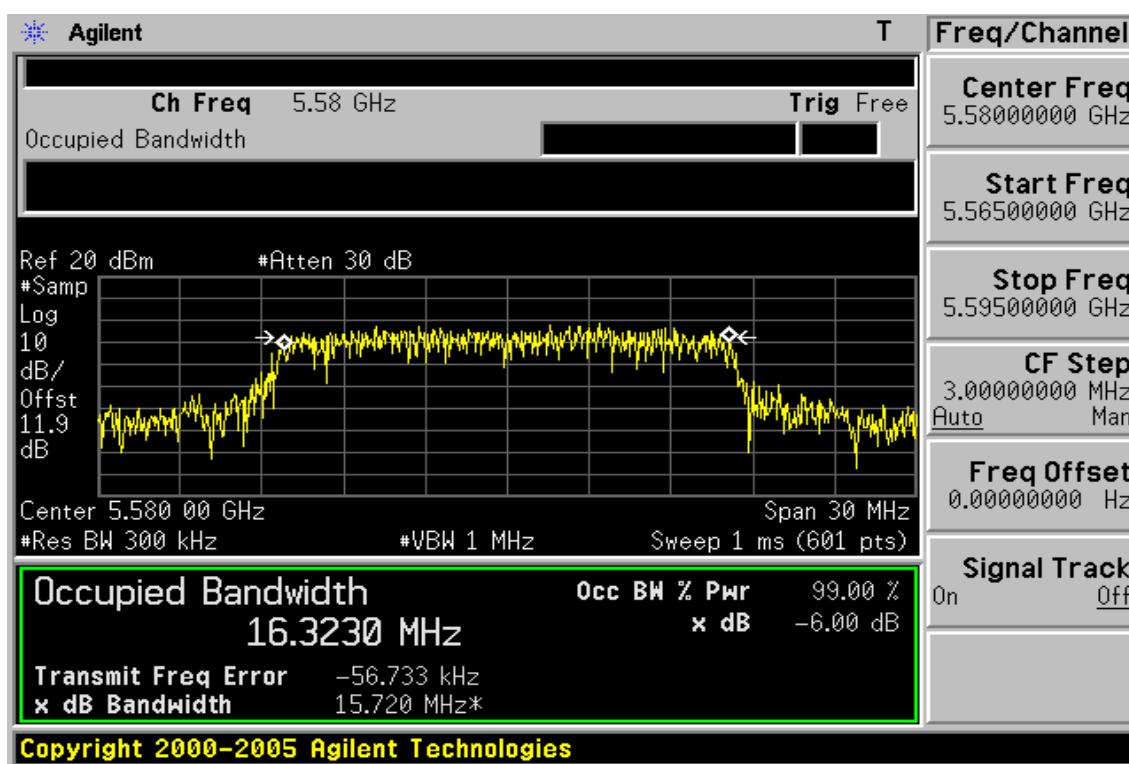
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802.11a, 5470~5725 MHz

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



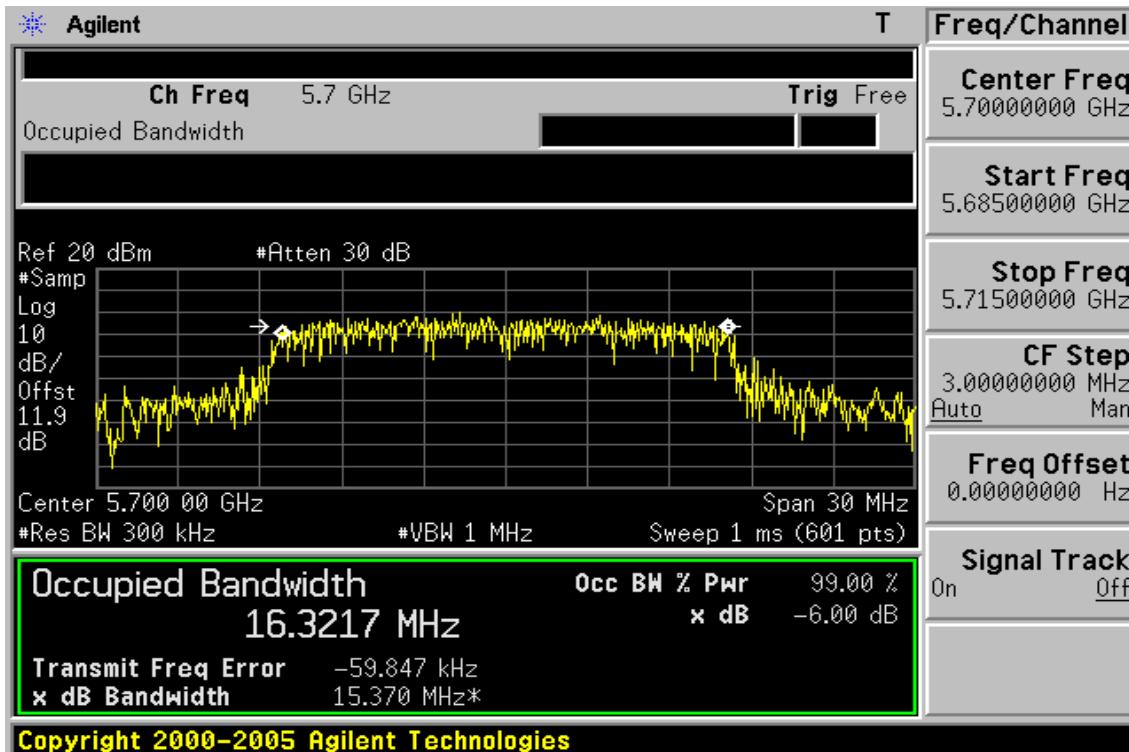
99% Band Width Test Data CH-Mid (5580MHz)



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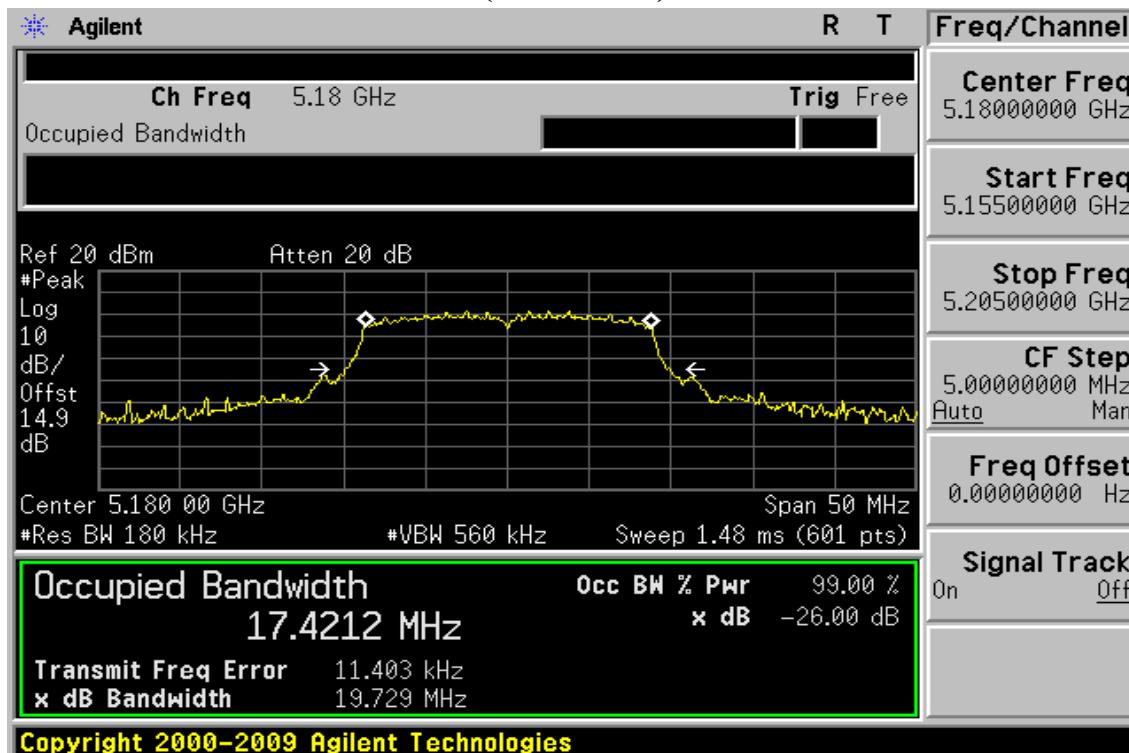
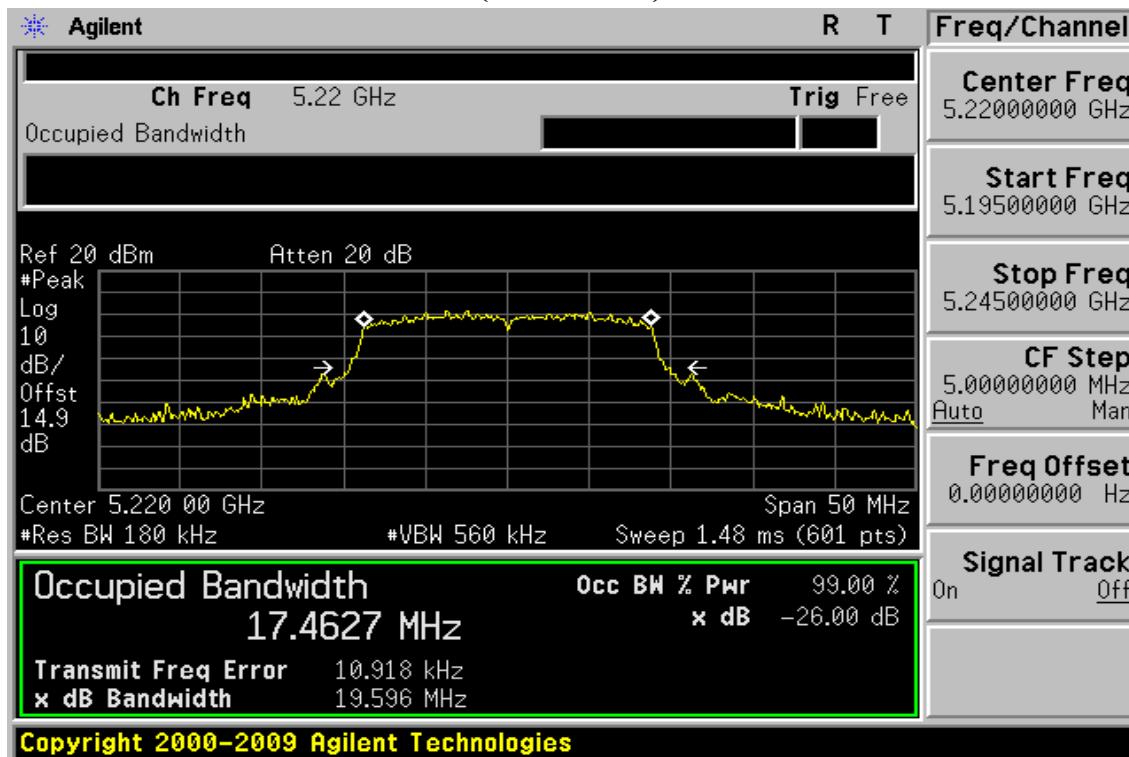
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99% Band Width Test Data CH-High (5700MHz)

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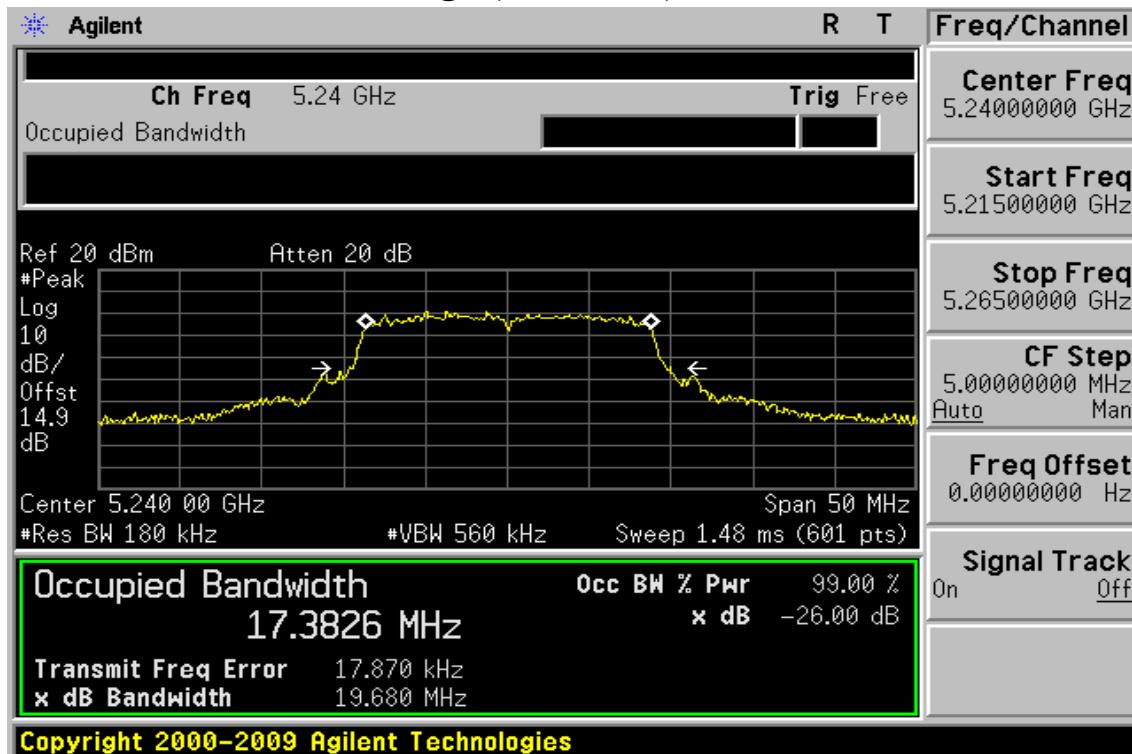
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**802.11n HT20, 5150~5250 MHz, MIMO-Main
99% Band Width Test Data CH-Low (5180 MHz)****99% Band Width Test Data CH-Mid (5220 MHz)**

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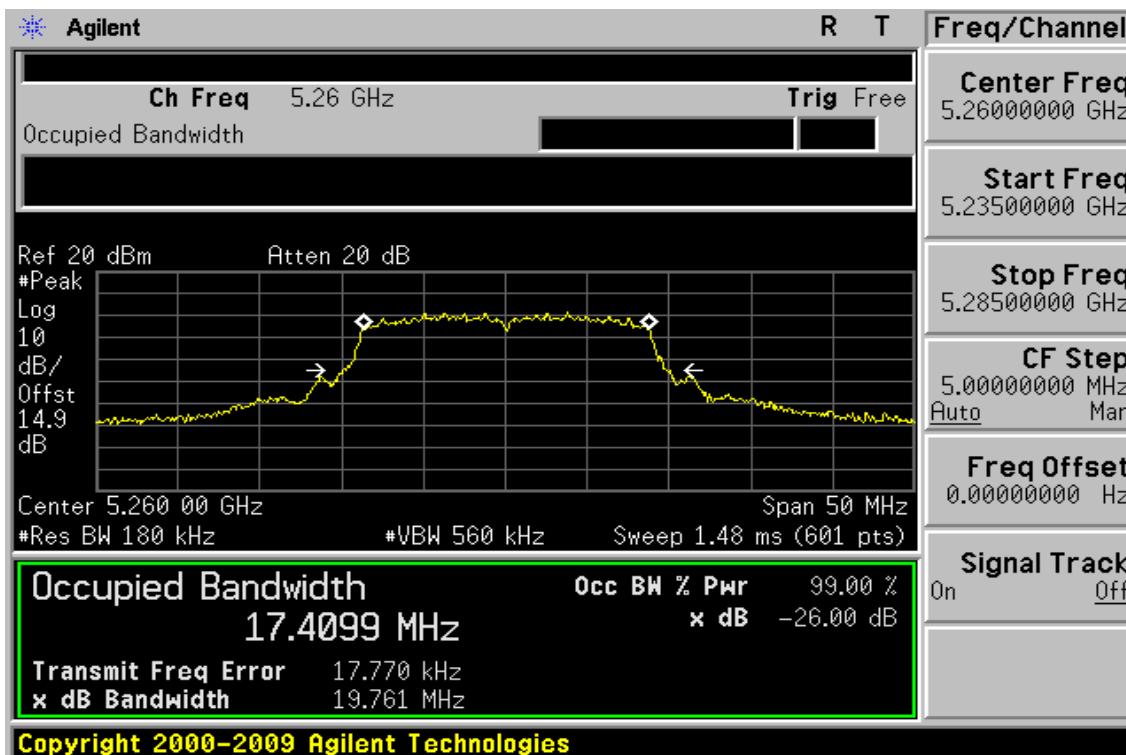
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99% Band Width Test Data CH-High (5240 MHz)

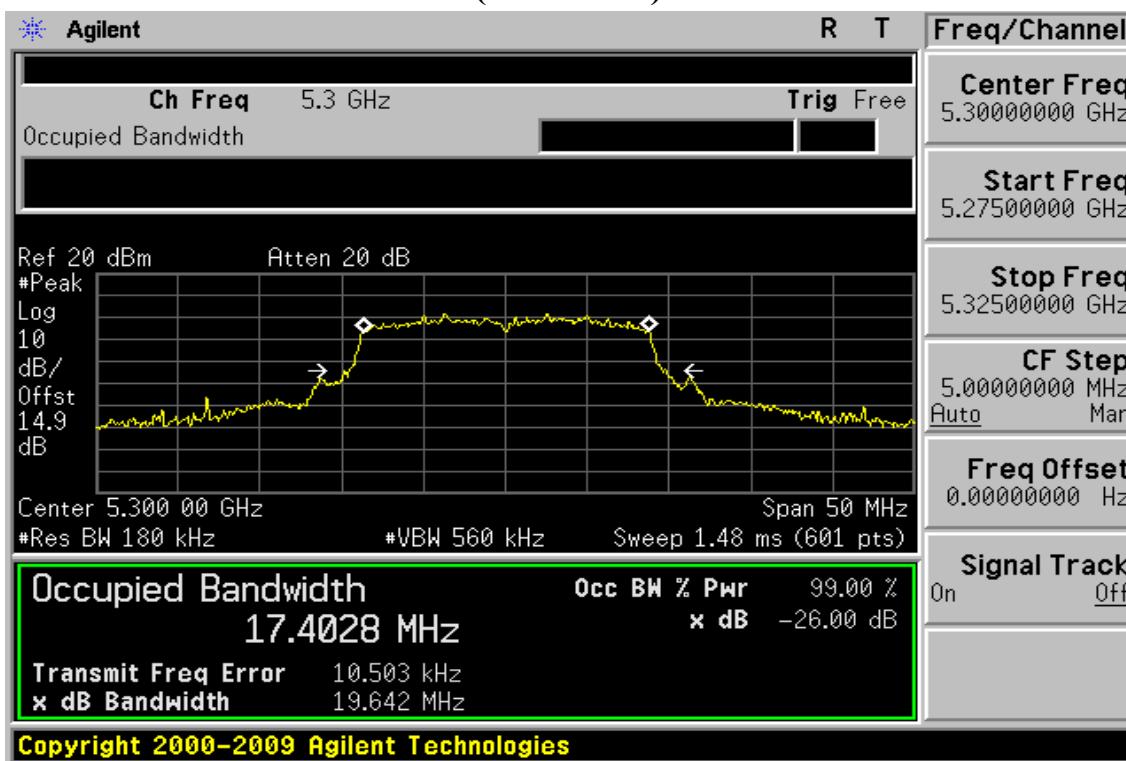
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802.11n HT20, 5250~5350 MHz
99% Band Width Test Data CH-Low (5260 MHz)

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

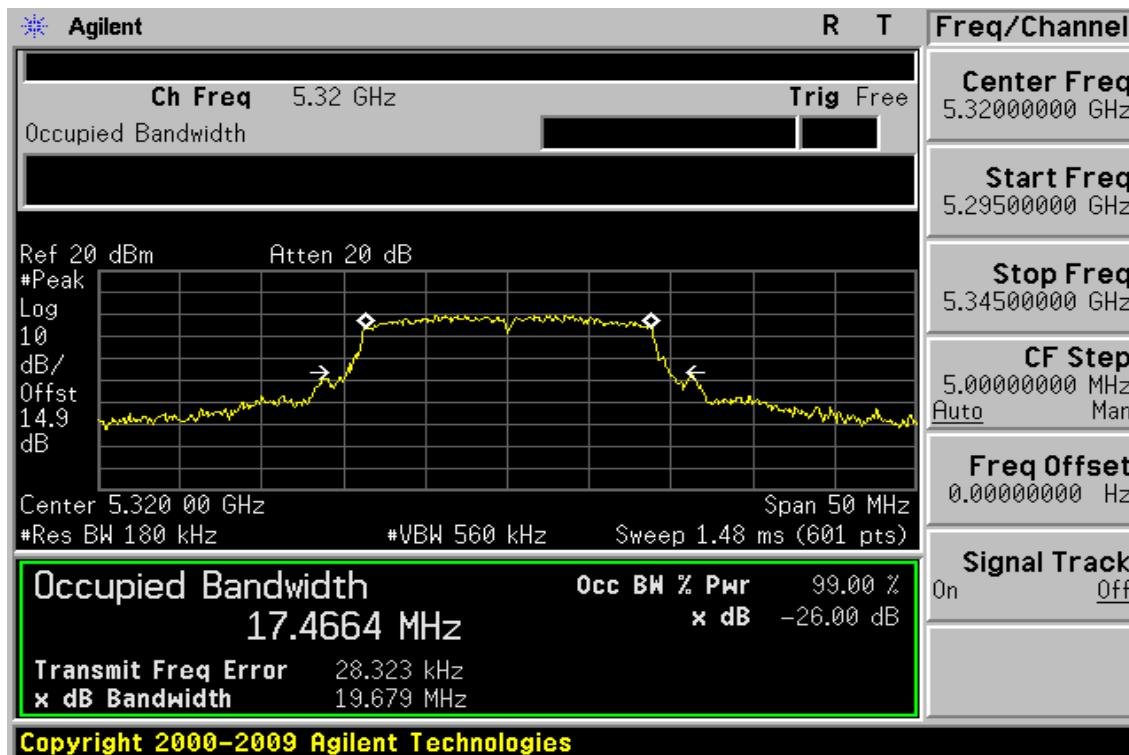


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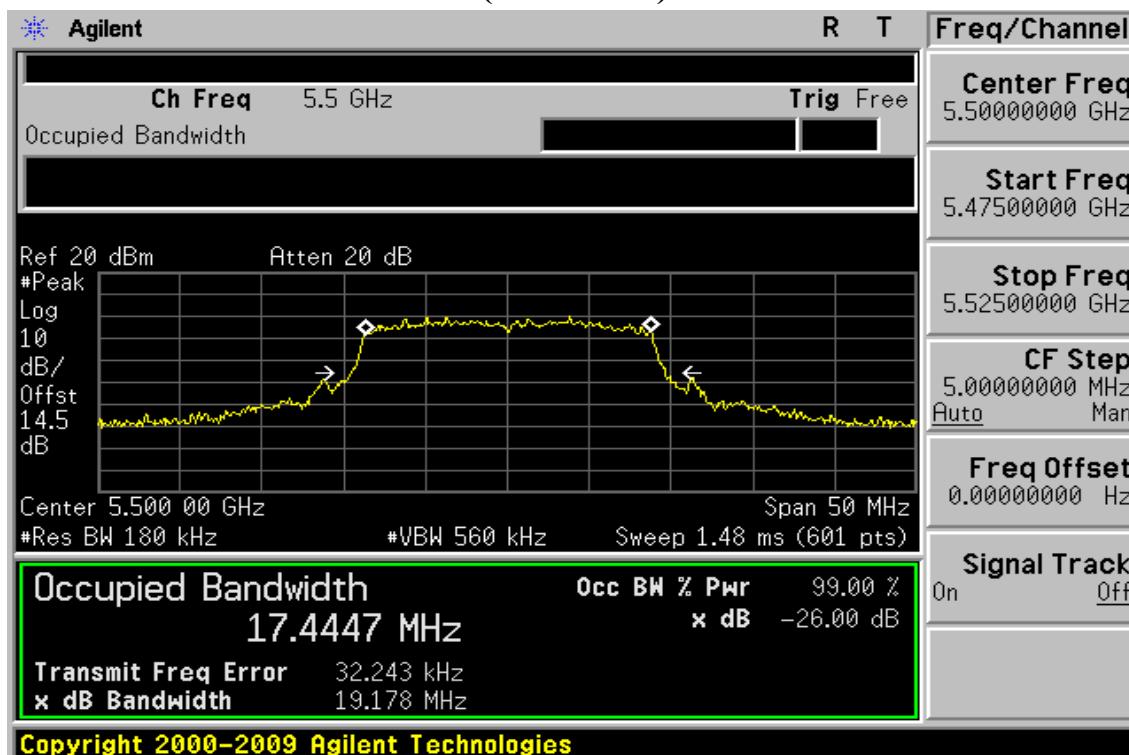
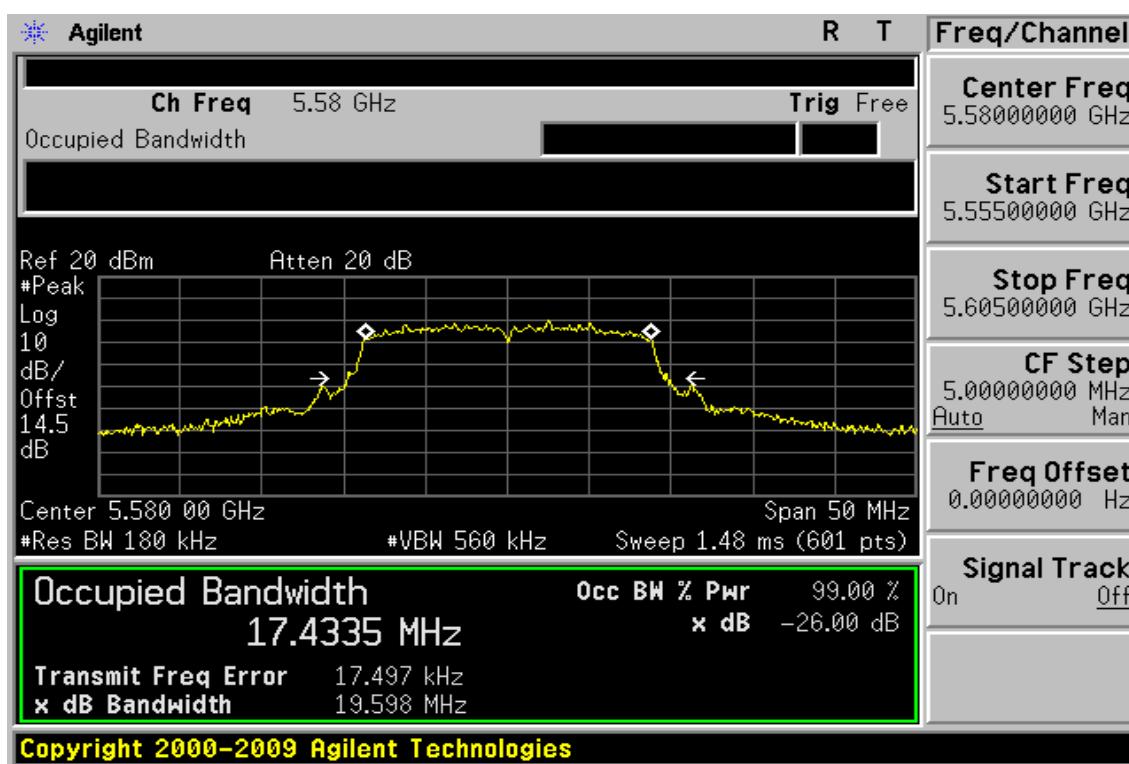
99% Band Width Test Data CH-High (5320 MHz)



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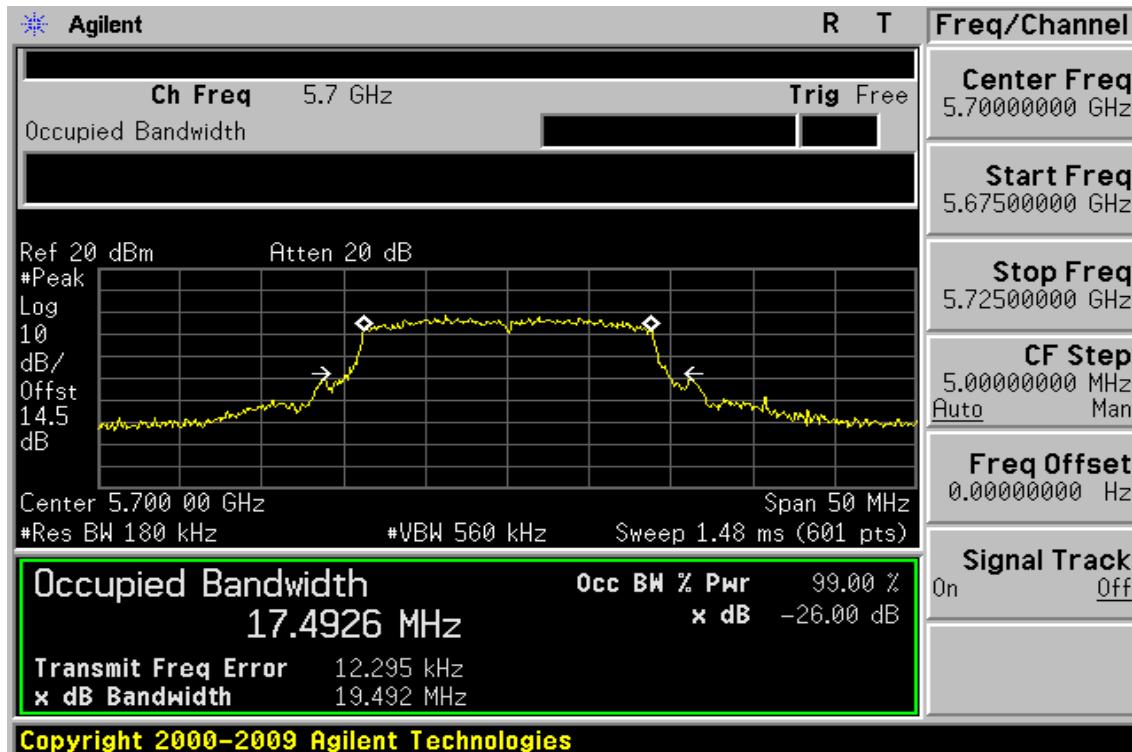
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802.11n HT20, 5470~5725 MHz
99% Band Width Test Data CH-Low (5500 MHz)**99% Band Width Test Data CH-Mid (5580 MHz)**

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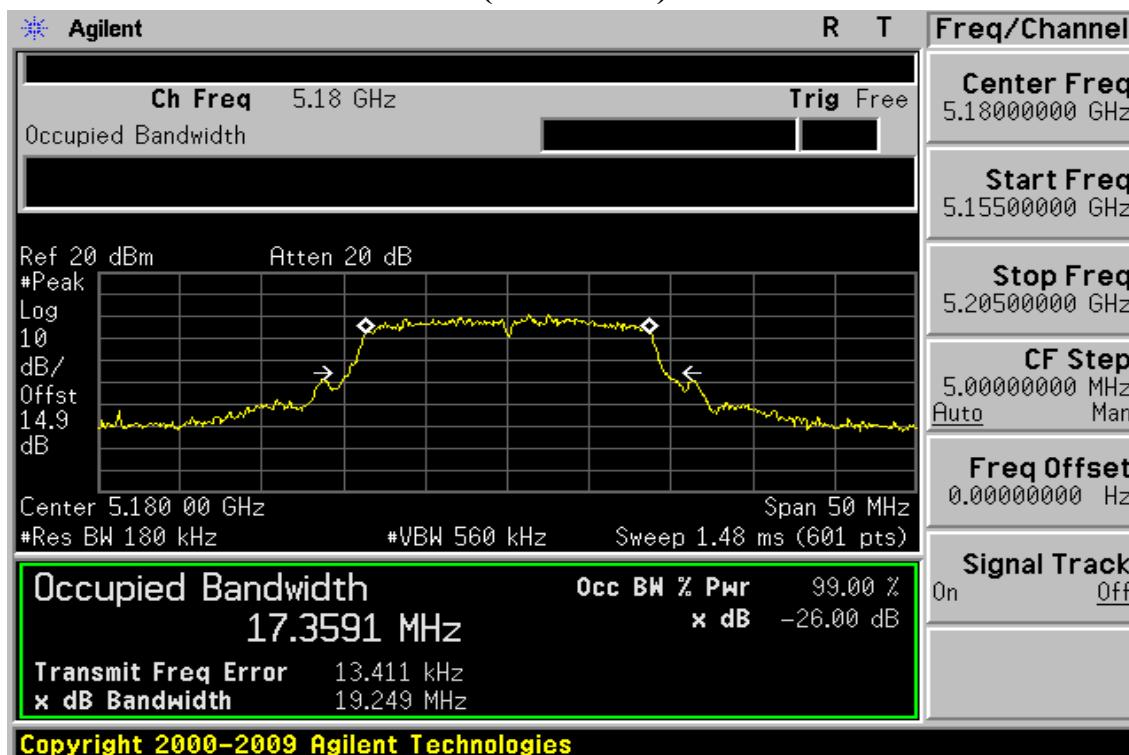
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99% Band Width Test Data CH-High (5700 MHz)

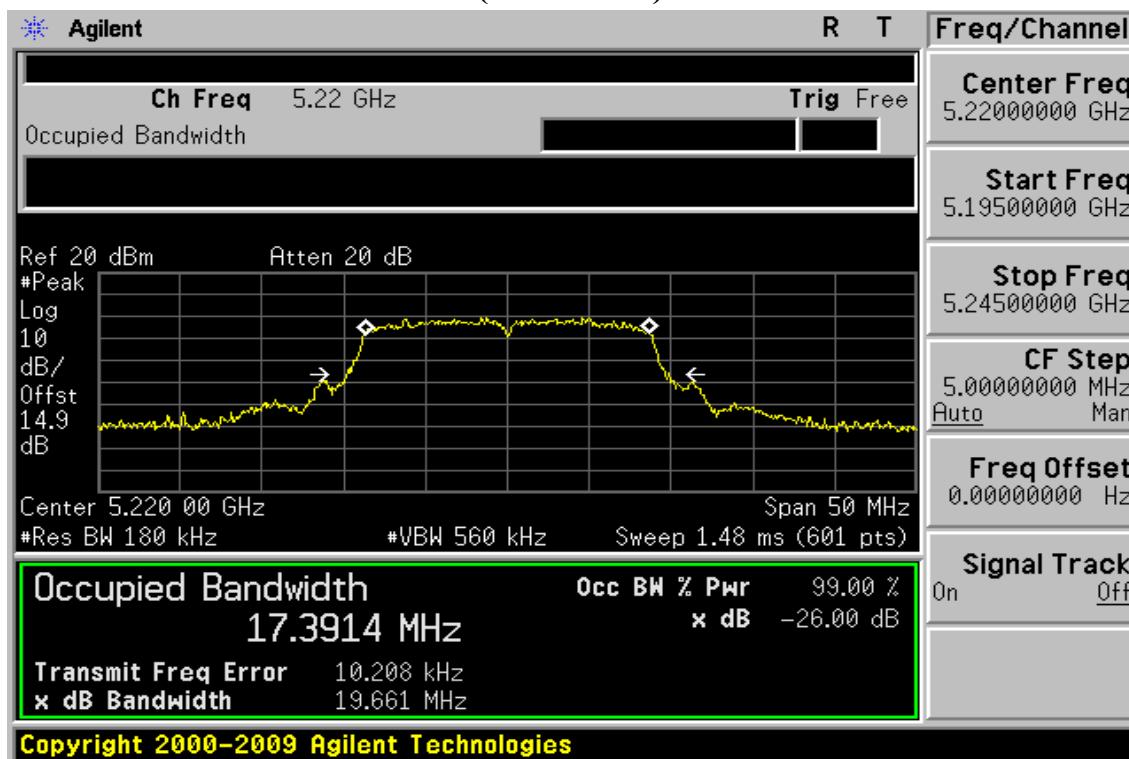
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802.11n HT20, 5150~5250 MHz, MIMO-Aux
 99% Band Width Test Data CH-Low (5180 MHz)


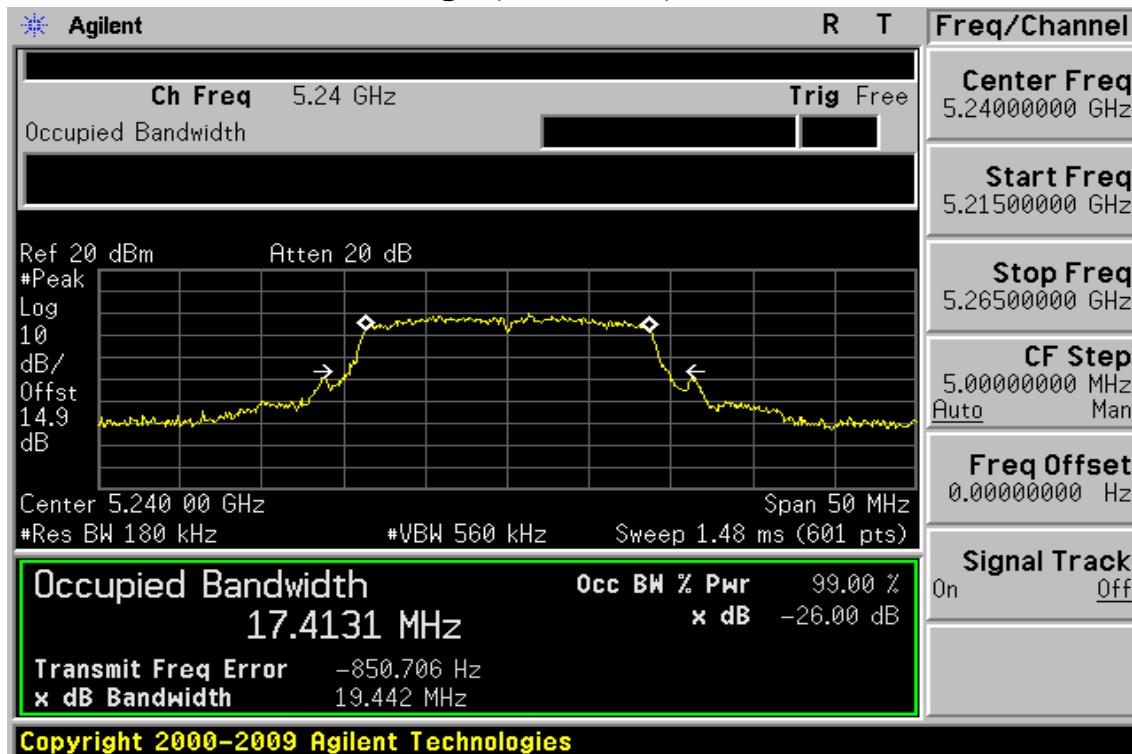
99% Band Width Test Data CH-Mid (5220 MHz)



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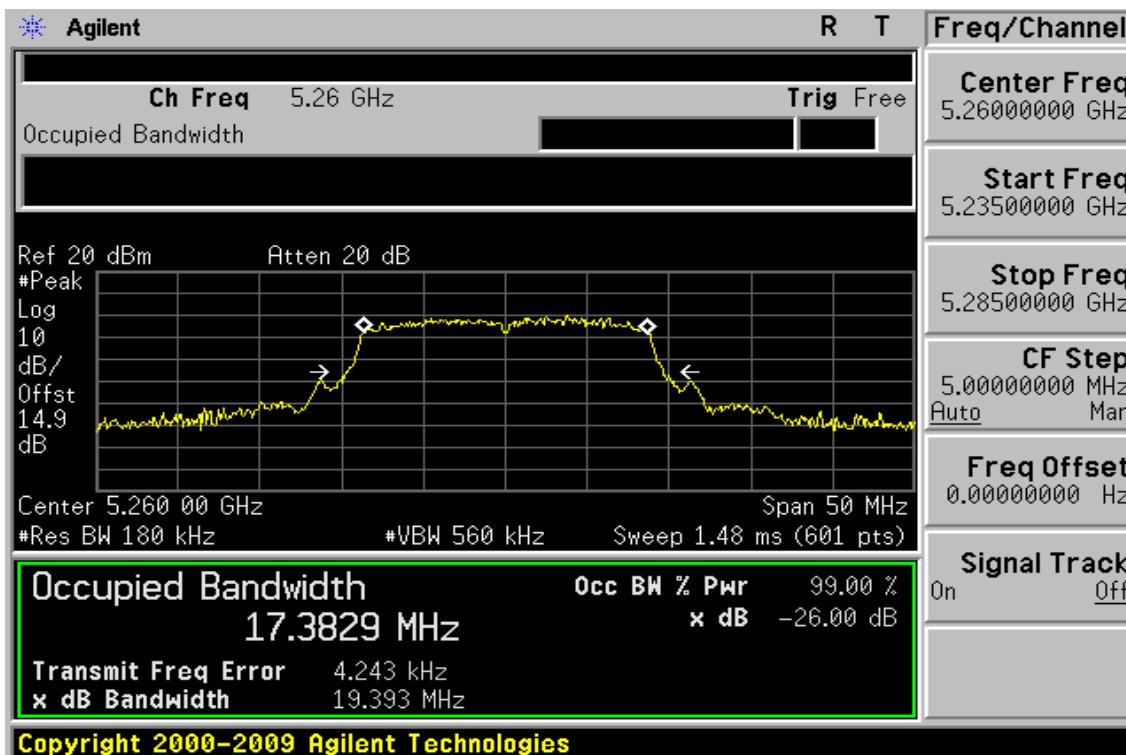
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99% Band Width Test Data CH-High (5240 MHz)

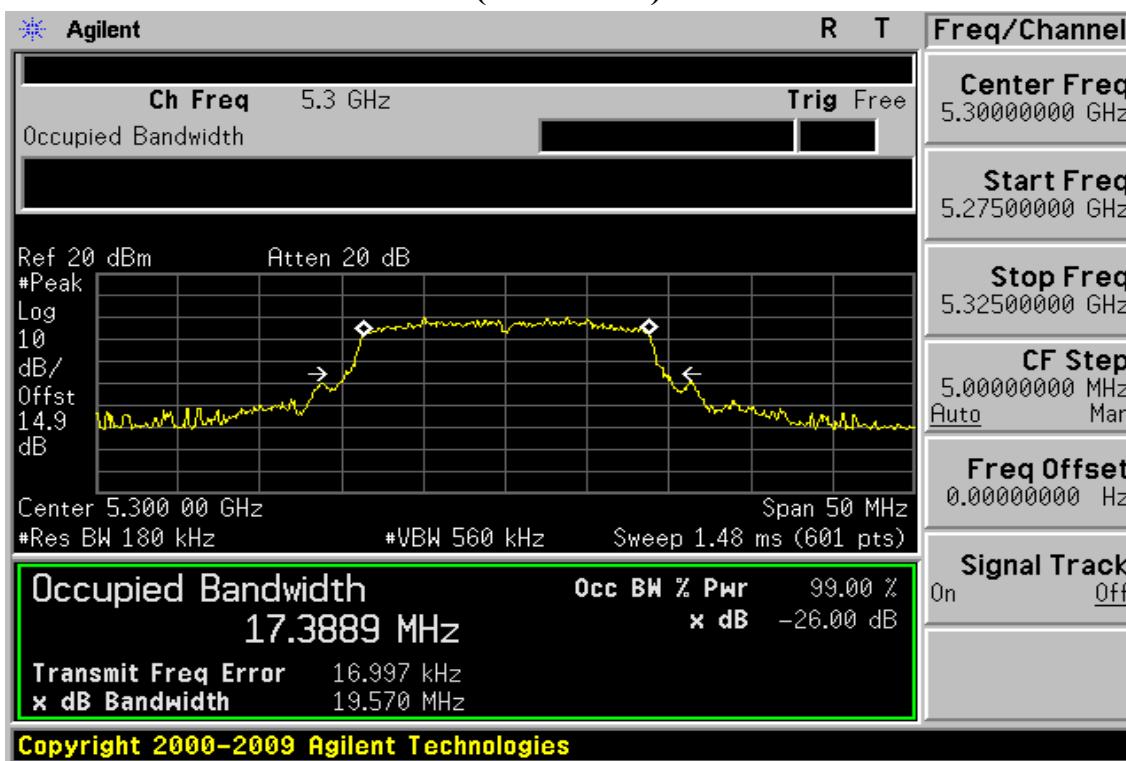
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802.11n HT20, 5250~5350 MHz
99% Band Width Test Data CH-Low (5260 MHz)

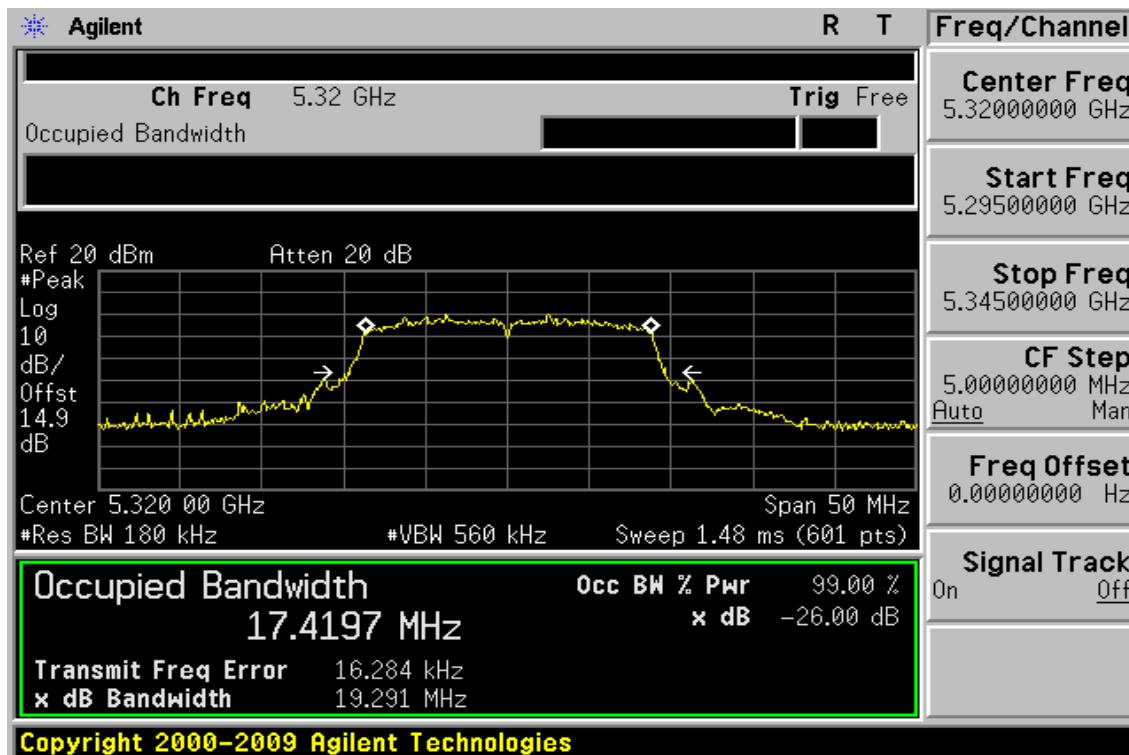
99% Band Width Test Data CH-Mid (5300 MHz)



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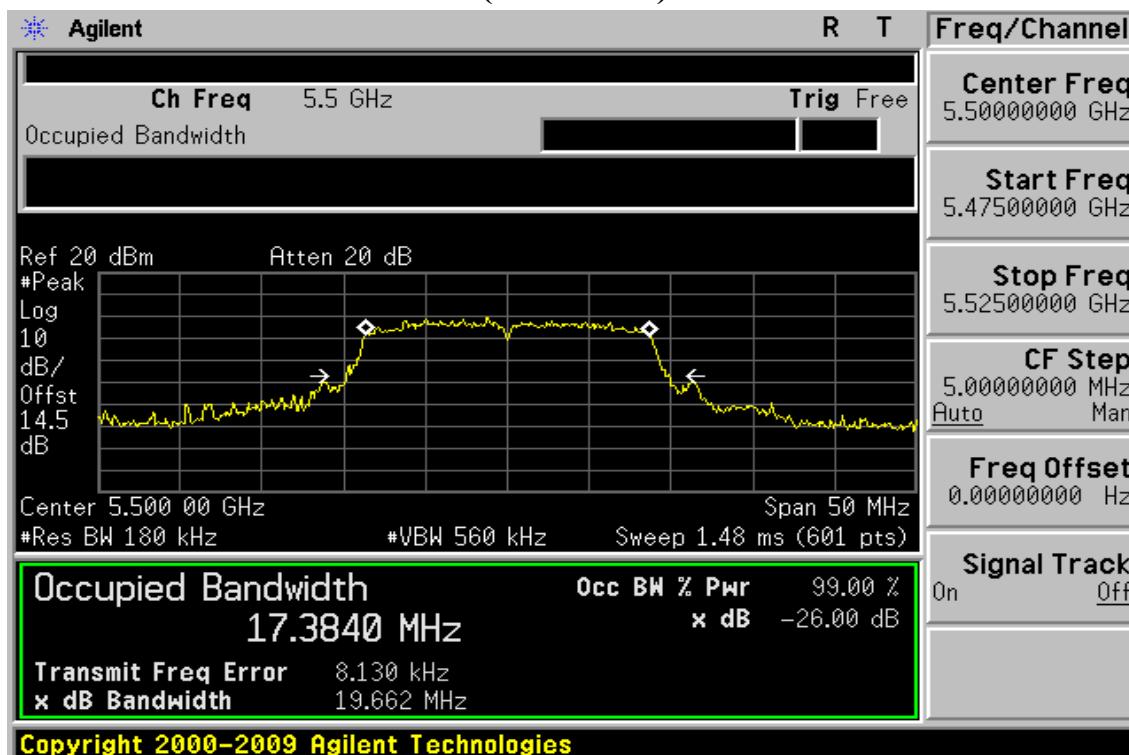
99% Band Width Test Data CH-High (5320 MHz)

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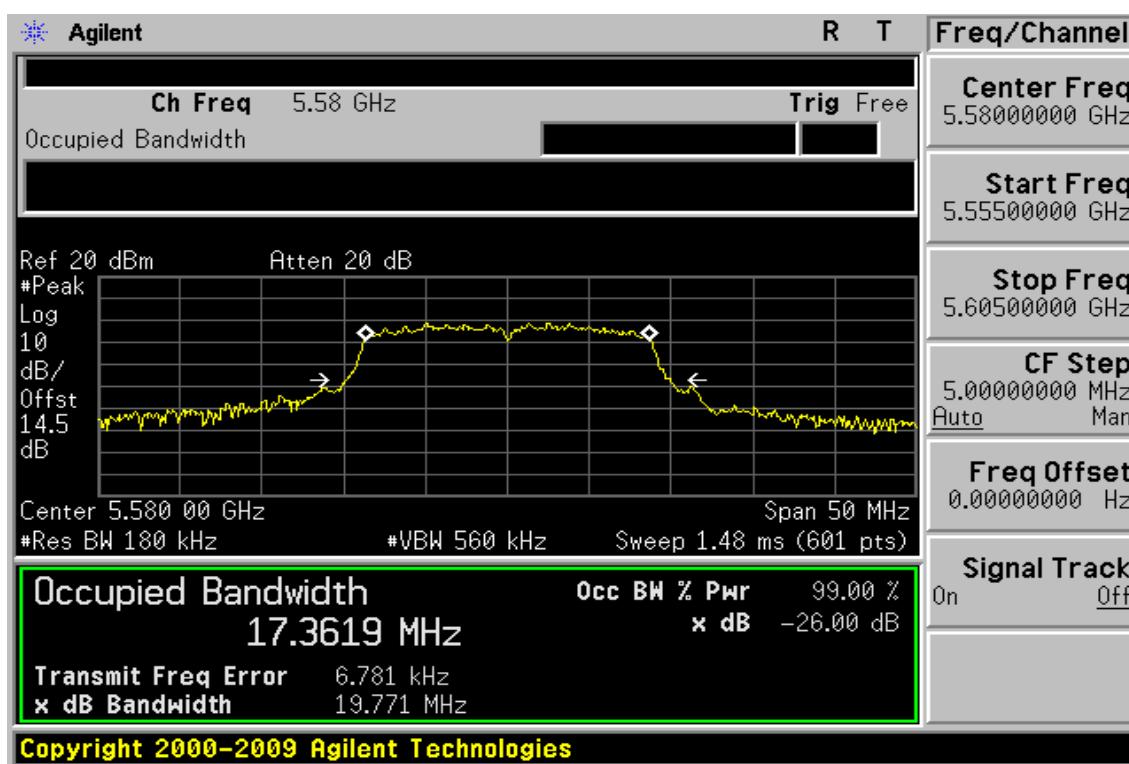
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802.11n HT20, 5470~5725 MHz 99% Band Width Test Data CH-Low (5500 MHz)



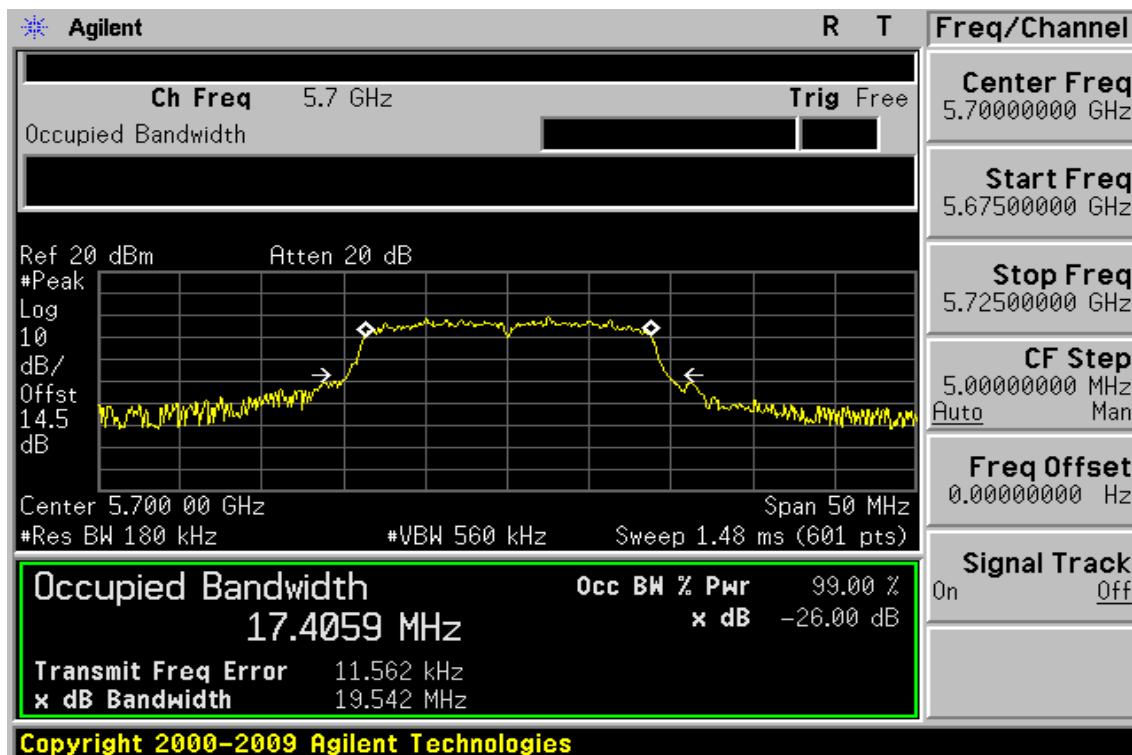
99% Band Width Test Data CH-Mid (5580 MHz)



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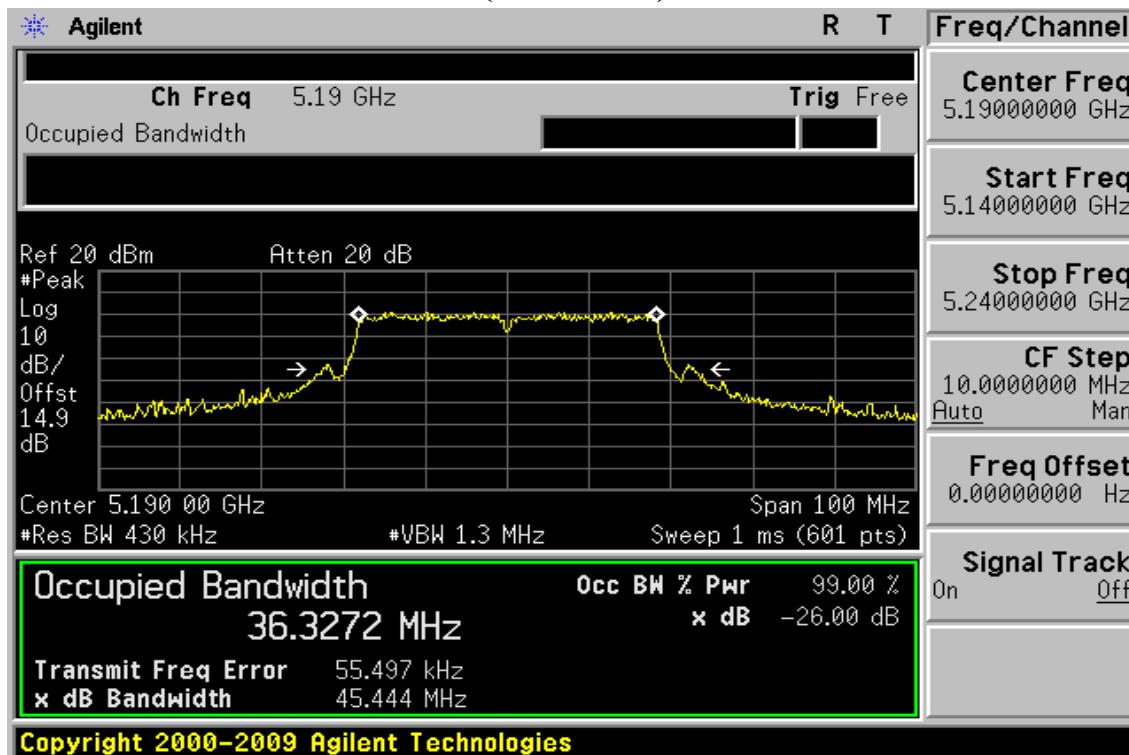
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99% Band Width Test Data CH-High (5700 MHz)

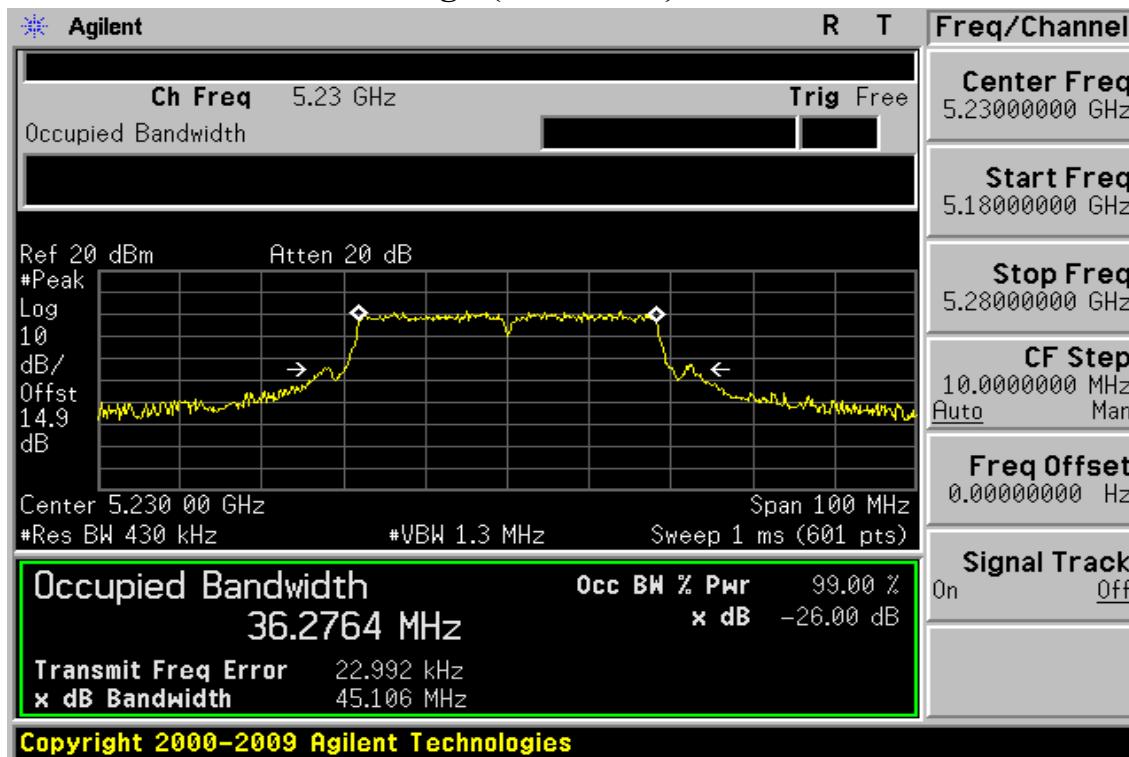
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802.11n HT40, 5150~5250 MHz, MIMO-Main
99% Band Width Test Data CH-Low (5190 MHz)

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

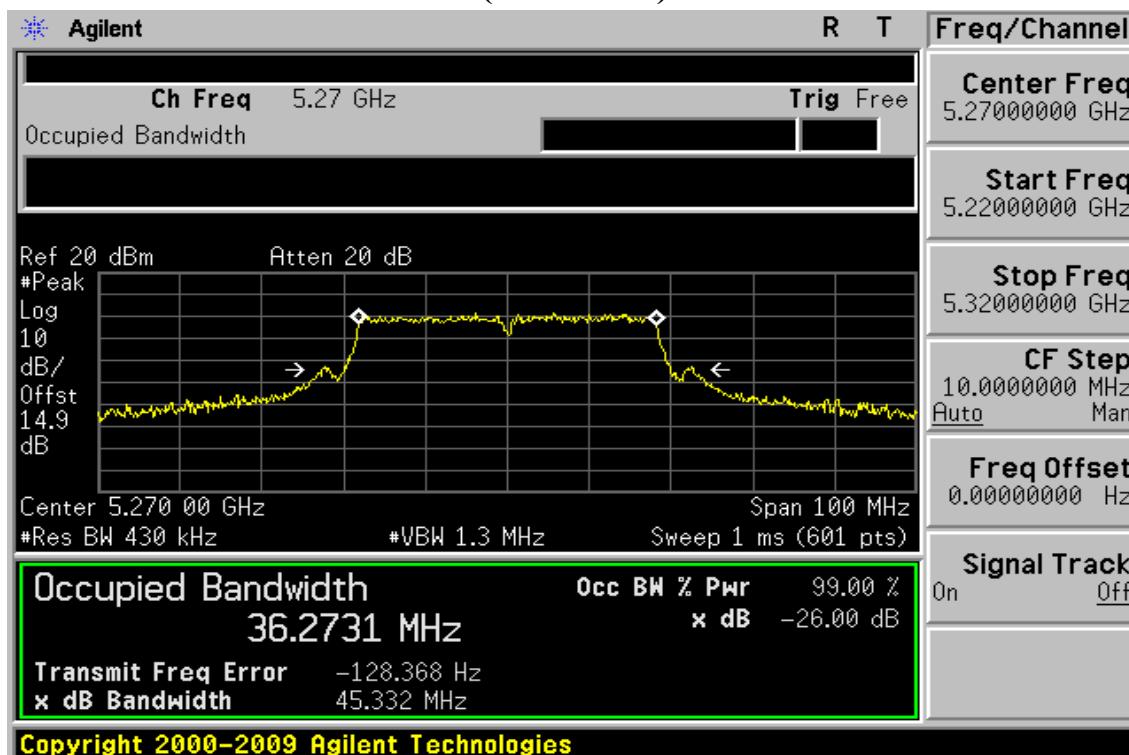


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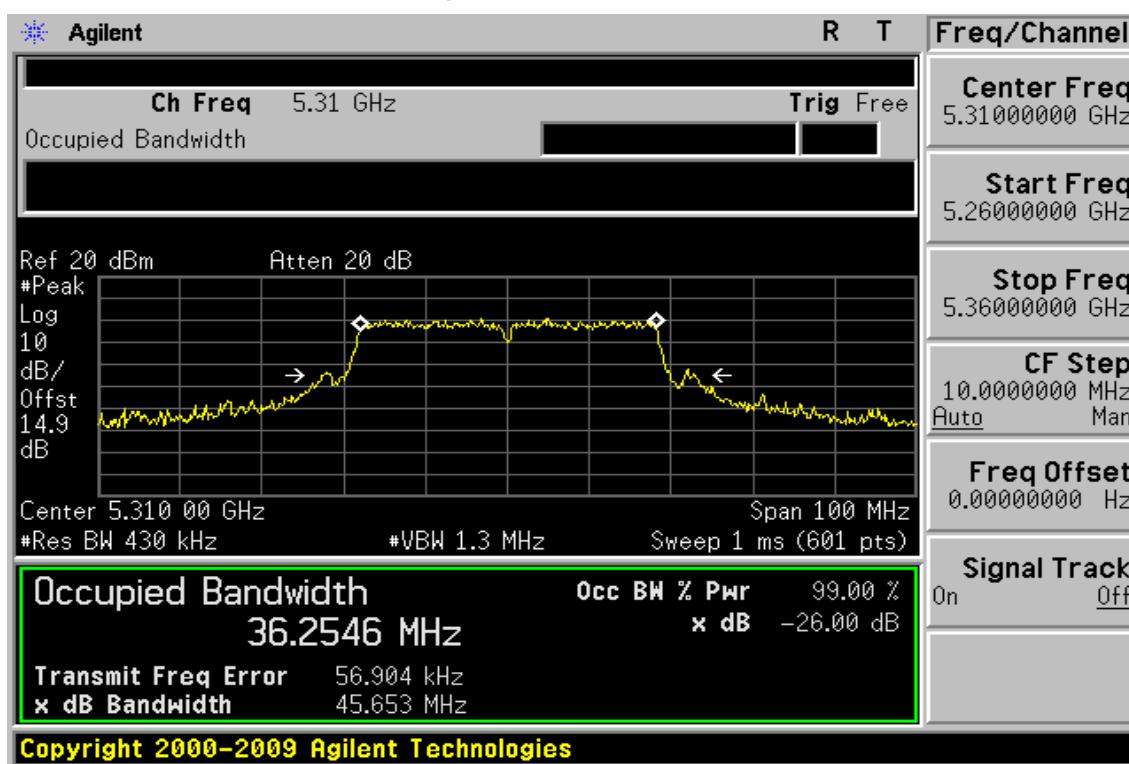
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802.11n HT40, 5250~5350 MHz 99% Band Width Test Data CH-Low (5270 MHz)



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

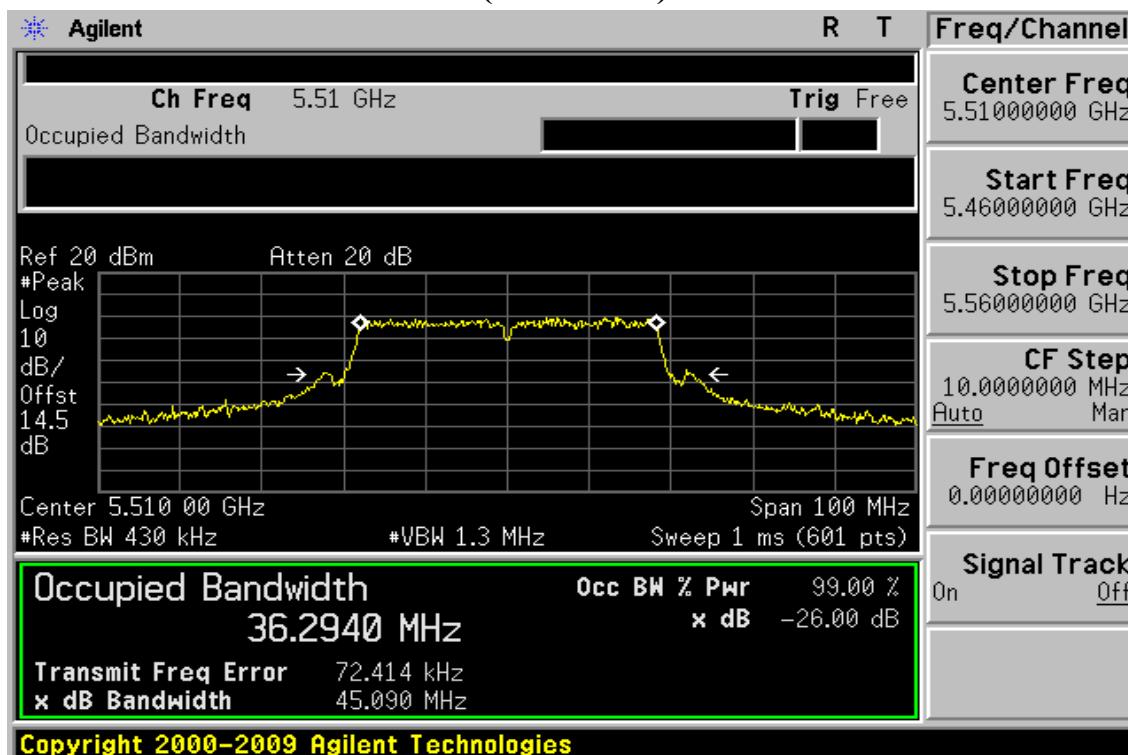


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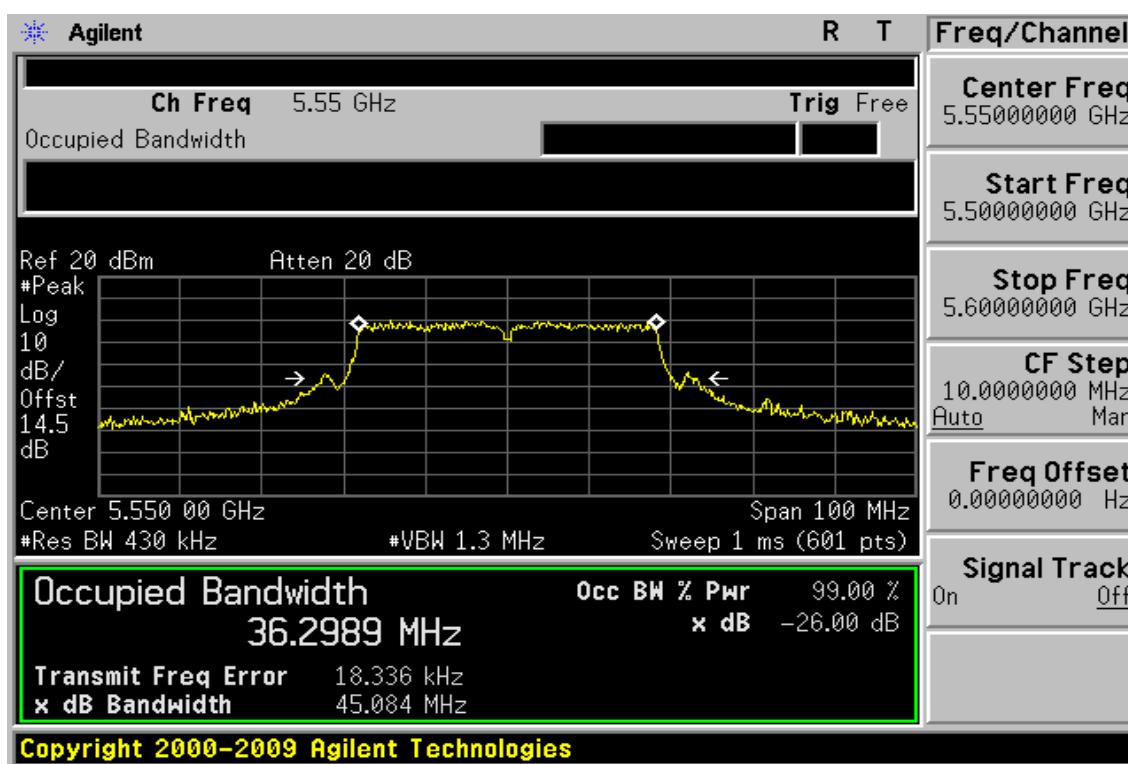
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802.11n HT40, 5470~5725 MHz 99% Band Width Test Data CH-Low (5510 MHz)



99% Band Width Test Data CH-Mid (5550 MHz)

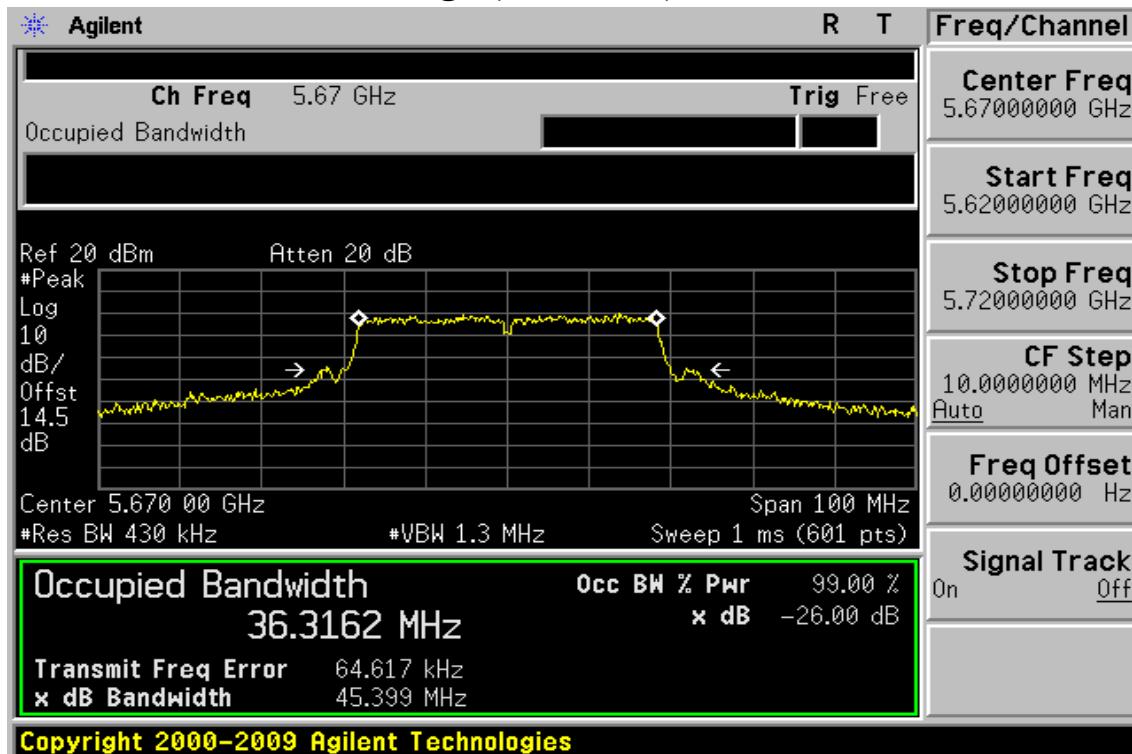


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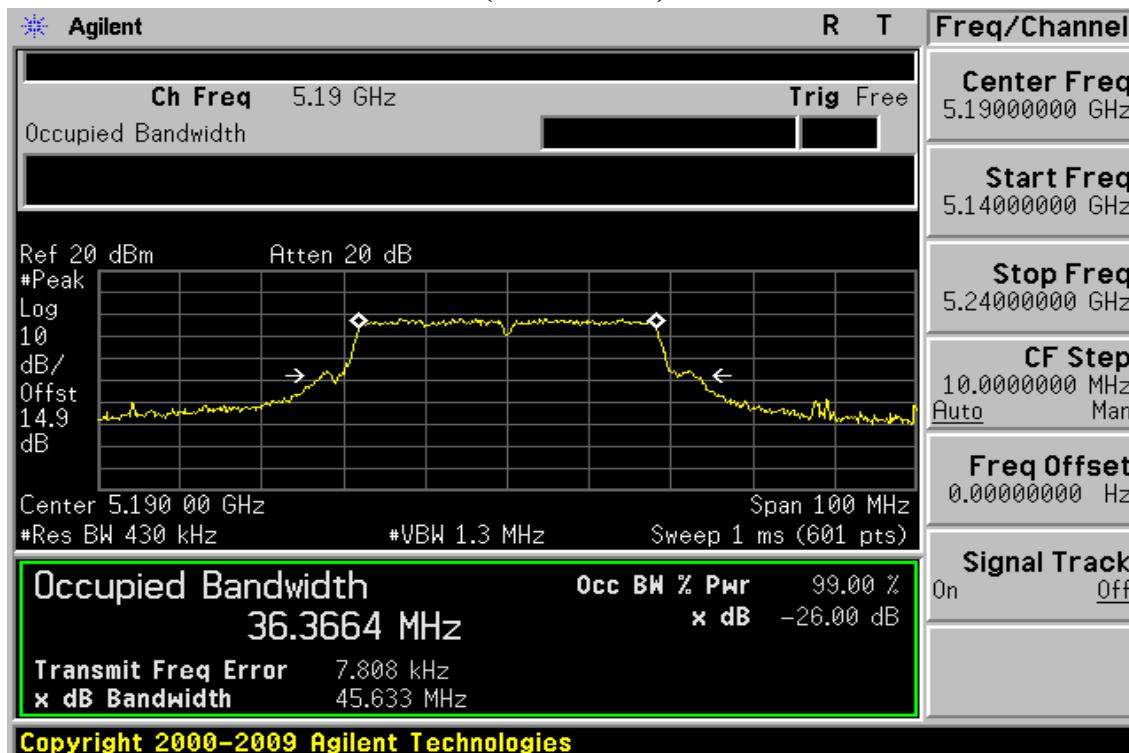
99% Band Width Test Data CH-High (5670 MHz)



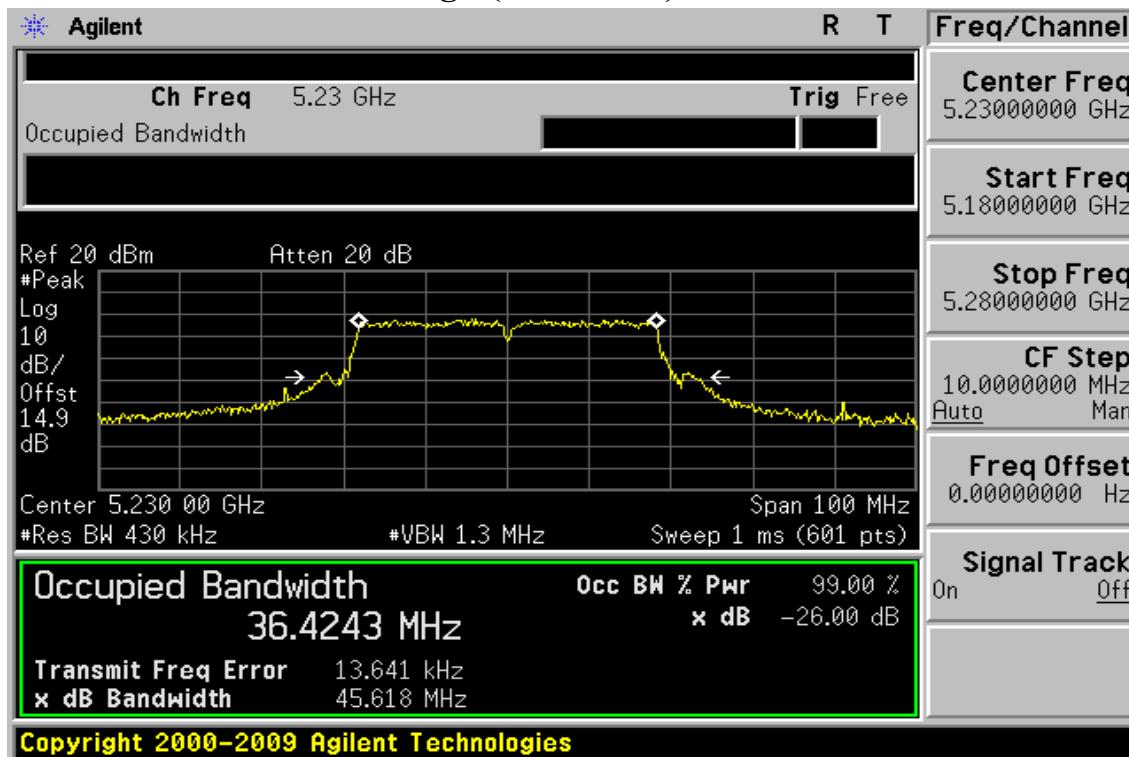
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802.11n HT40, 5150~5250 MHz, MIMO-Aux
99% Band Width Test Data CH-Low (5190 MHz)

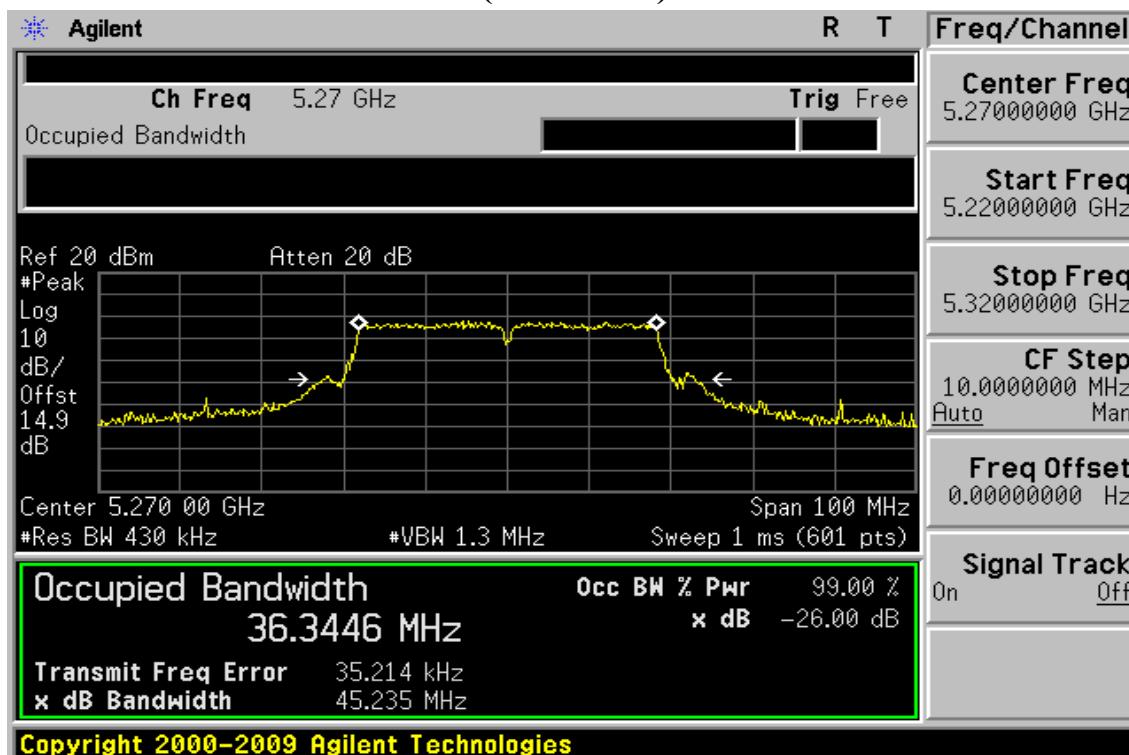
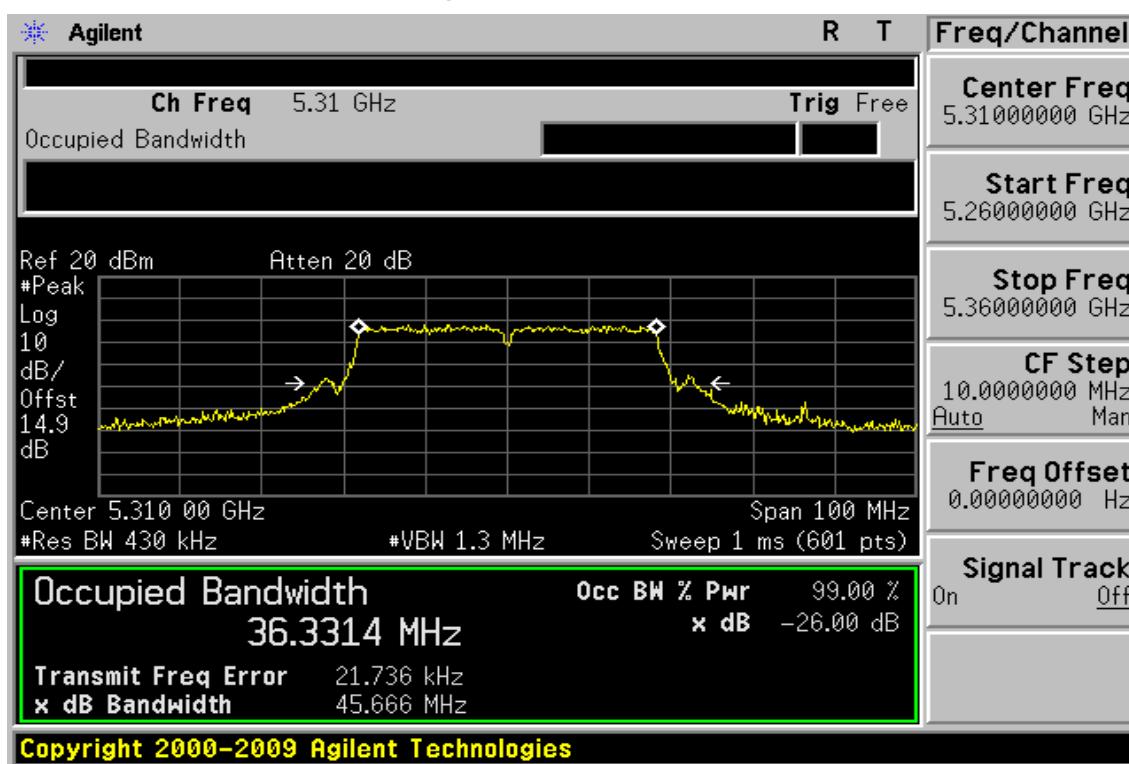
99% Band Width Test Data CH-High (5230 MHz)



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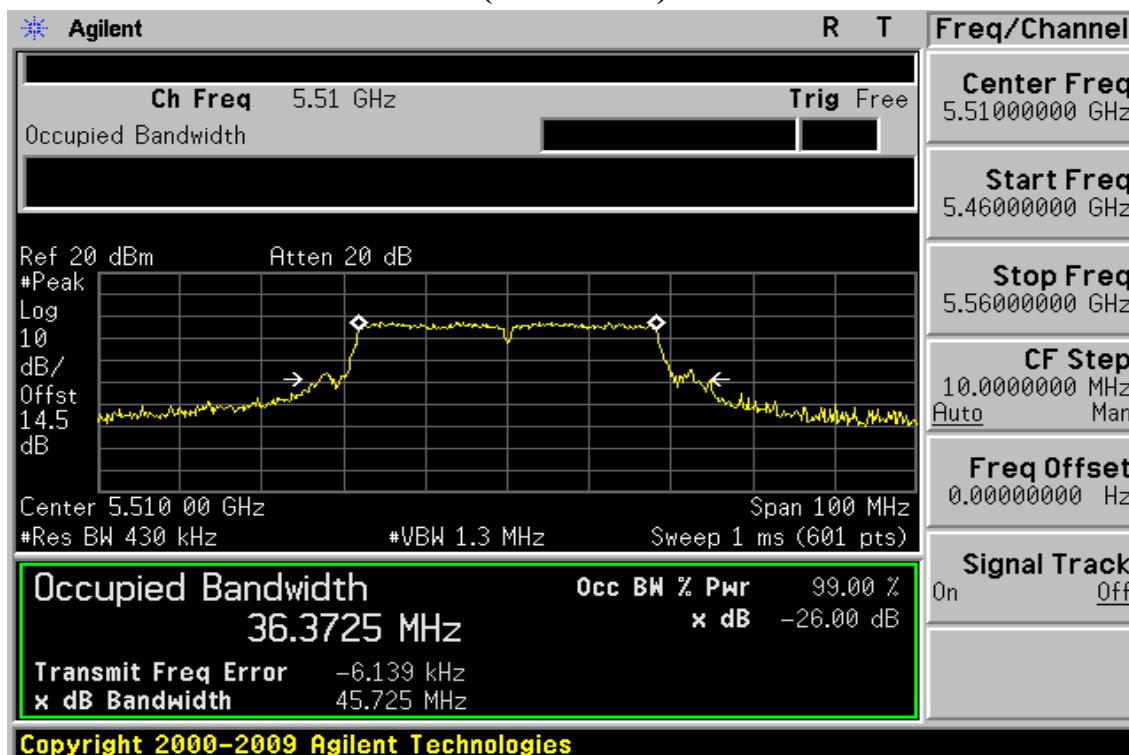
802.11n HT40, 5250~5350 MHz
99% Band Width Test Data CH-Low (5270 MHz)**99% Band Width Test Data CH-High (5310MHz)**

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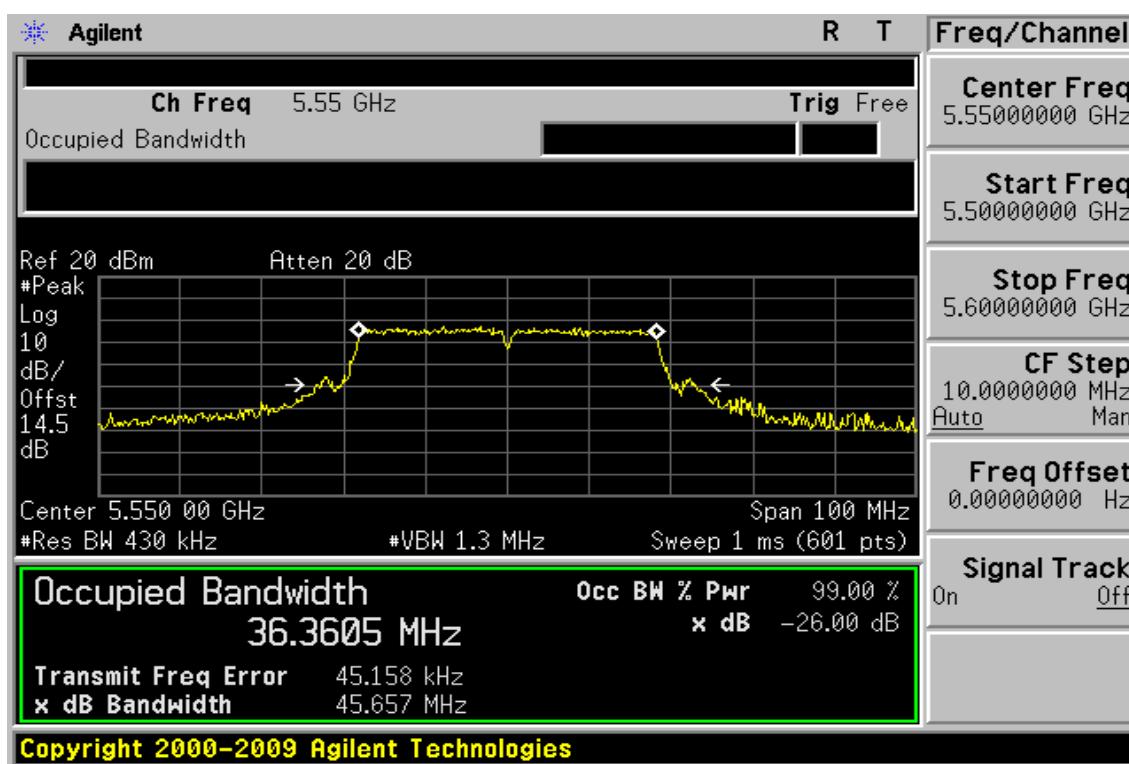
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802.11n HT40, 5470~5725 MHz 99% Band Width Test Data CH-Low (5510 MHz)



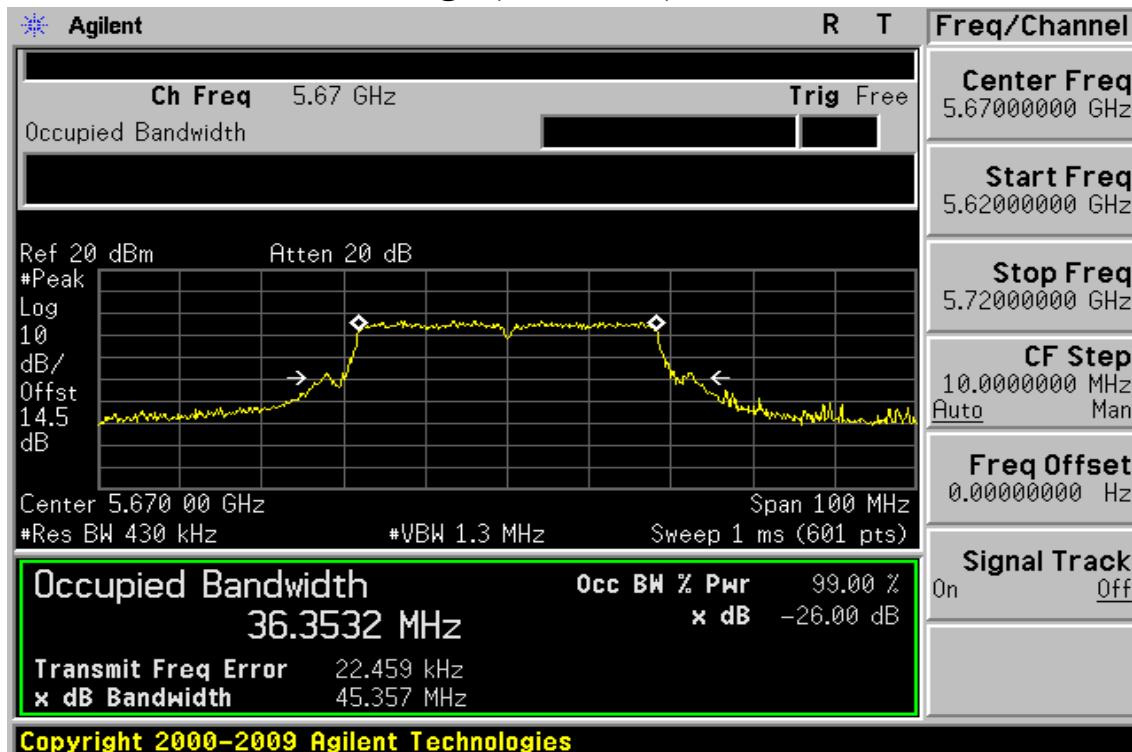
99% Band Width Test Data CH-Mid (5550 MHz)



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

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8. The MAXIMUM 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 dBm + 10log 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 dBm + 10log 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 dBm + 10log 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) $-13 - 0.716(\theta-8)$ 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.

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
3. Set the offset $10 * \log(1/x)$, $n_{HT20}=0.10$, $n_{HT40}=0.12$
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. Employing step 1 to 4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (, where MIMO is applicable).

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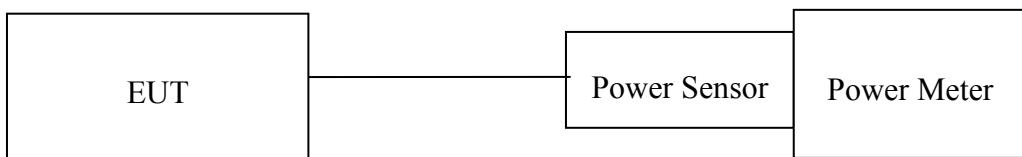
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Note: For EIRP/ERP measurement complying with RSS-210 9.2, the formula as deduced in 1.3.2 of KDB 412172 D01 is used to calculate. $ERP/EIRP = Pt + Gt - Lc$, where Pt = transmitter output power measured directly at antenna port, expressing in dBm, and Gt = gain of the transmitting antenna in dBi that can be referred in antenna spec provided by the manufacturer in section 1.1, Lc = signal attenuation in the cable between the transmitting port and antenna.

8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

8.4 Test Set-up:



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8.5 Measurement Result

802.11a (Main)

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
36	5180	12.60	12.55	12.52	12.48	12.43	12.43	12.32	12.25	16.99dBm or 4+10log(B) = 16.83dBm
44	5220	12.60	12.54	12.54	12.54	12.42	12.29	12.16	12.13	16.99dBm or 4+10log(B) = 16.82dBm
48	5240	12.53	12.53	12.42	12.35	12.33	12.19	12.09	11.97	16.99dBm or 4+10log(B) = 16.85dBm
52	5260	12.48	12.36	12.35	12.25	12.21	12.21	12.18	12.06	23.98dBm or 11+10log(B) = 23.86dBm
60	5300	12.33	12.21	12.13	12.00	11.94	11.83	11.77	11.63	23.98dBm or 11+10log(B) = 23.85dBm
64	5320	12.34	12.24	12.17	12.15	12.14	12.14	12.07	11.97	23.98dBm or 11+10log(B) = 23.86dBm
100	5500	12.26	12.23	12.13	12.08	12.07	12.05	11.94	11.85	23.98dBm or 11+10log(B) = 23.79dBm
116	5580	11.95	11.94	11.82	11.70	11.68	11.59	11.49	11.40	23.98dBm or 11+10log(B) = 23.78dBm
140	5700	11.45	11.41	11.27	11.15	11.01	10.90	10.79	10.70	23.98dBm or 11+10log(B) = 23.74dBm

Note: Limit is re-adjusted in terms of dBm

$10 * \log(50mW) = 16.99dBm$ for the limit on the band of 5150~5250MHz

$10 * \log(250mW) = 23.98dBm$ for the limit on the band of 5260~5320MHz, & 5470~5725MHz

Note: Cable loss is 11.8dB is set as the offset on the spectrum to compensate the loss causing by cable

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802.11n HT20 – SISO (Main)

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	9.61	9.53	9.44	9.37	9.27	9.24	9.24	9.19	16.99dBm or 4+10log(B) = 16.95dBm
44	5220	9.35	9.31	9.28	9.22	9.10	9.00	8.92	8.91	16.99dBm or 4+10log(B) = 16.92dBm
48	5240	9.13	9.07	9.06	8.93	8.84	8.80	8.67	8.61	16.99dBm or 4+10log(B) = 16.94dBm
52	5260	9.24	9.23	9.10	9.07	9.05	9.02	8.97	8.97	23.98dBm or 11+10log(B) = 23.96dBm
60	5300	8.96	8.88	8.82	8.69	8.59	8.56	8.50	8.49	23.98dBm or 11+10log(B) = 23.93dBm
64	5320	8.88	8.85	8.72	8.59	8.55	8.52	8.45	8.33	23.98dBm or 11+10log(B) = 23.94dBm
100	5500	8.95	8.91	8.82	8.72	8.58	8.52	8.47	8.34	23.98dBm or 11+10log(B) = 23.83dBm
116	5580	8.32	8.19	8.11	7.98	7.97	7.95	7.86	7.81	23.98dBm or 11+10log(B) = 23.92dBm
140	5700	8.04	7.93	7.86	7.83	7.80	7.66	7.57	7.44	23.98dBm or 11+10log(B) = 23.90dBm

Note: Offset 14.81dB

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802.11n HT20

Cable loss = 0		The Maximum Output Power (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	9.13	8.99	8.93	8.83	8.71	8.65	8.56	8.49	16.99dBm or 4+10log(B) = 16.95dBm
44	5220	8.94	8.93	8.83	8.83	8.83	8.80	8.79	8.67	16.99dBm or 4+10log(B) = 16.92dBm
48	5240	9.01	8.92	8.80	8.72	8.71	8.63	8.52	8.50	16.99dBm or 4+10log(B) = 16.94dBm
52	5260	8.88	8.87	8.81	8.74	8.73	8.73	8.71	8.62	23.98dBm or 11+10log(B) = 23.96dBm
60	5300	8.66	8.64	8.62	8.62	8.59	8.45	8.38	8.35	23.98dBm or 11+10log(B) = 23.93dBm
64	5320	8.55	8.43	8.30	8.25	8.24	8.24	8.17	8.13	23.98dBm or 11+10log(B) = 23.94dBm
100	5500	8.64	8.57	8.45	8.32	8.19	8.13	8.10	8.00	23.98dBm or 11+10log(B) = 23.83dBm
116	5580	8.33	8.29	8.18	8.08	7.95	7.92	7.79	7.74	23.98dBm or 11+10log(B) = 23.92dBm
140	5700	7.88	7.76	7.72	7.61	7.53	7.51	7.49	7.44	23.98dBm or 11+10log(B) = 23.90dBm

Note: Offset 14.81dB

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802.11n HT20

Cable loss = 0		The Maximum Output Power (CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	9.63	9.58	9.53	9.49	9.42	9.40	9.39	9.34	16.99dBm or 4+10log(B) = 16.95dBm
44	5220	9.72	9.72	9.65	9.56	9.55	9.42	9.37	9.30	16.99dBm or 4+10log(B) = 16.92dBm
48	5240	9.64	9.63	9.57	9.57	9.50	9.39	9.29	9.23	16.99dBm or 4+10log(B) = 16.94dBm
52	5260	9.70	9.63	9.61	9.61	9.59	9.52	9.43	9.39	23.98dBm or 11+10log(B) = 23.96dBm
60	5300	9.46	9.41	9.37	9.24	9.16	9.06	9.01	8.91	23.98dBm or 11+10log(B) = 23.93dBm
64	5320	9.46	9.36	9.27	9.16	9.14	9.09	9.05	8.95	23.98dBm or 11+10log(B) = 23.94dBm
100	5500	9.42	9.38	9.26	9.18	9.14	9.04	8.99	8.93	23.98dBm or 11+10log(B) = 23.83dBm
116	5580	8.98	8.91	8.84	8.77	8.76	8.65	8.53	8.51	23.98dBm or 11+10log(B) = 23.92dBm
140	5700	7.92	7.81	7.71	7.64	7.60	7.56	7.45	7.37	23.98dBm or 11+10log(B) = 23.90dBm

Note: Offset 14.81dB

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802.11n HT20 MIMO operation

Cable loss = 0		The Maximum Output Power (CH 0 + CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	12.40	12.31	12.25	12.18	12.09	12.05	12.01	11.95	16.99dBm or 4+10log(B) = 16.95dBm
44	5220	12.36	12.35	12.27	12.22	12.22	12.13	12.10	12.01	16.99dBm or 4+10log(B) = 16.92dBm
48	5240	12.35	12.30	12.21	12.18	12.13	12.04	11.93	11.89	16.99dBm or 4+10log(B) = 16.94dBm
52	5260	12.32	12.28	12.24	12.21	12.19	12.15	12.10	12.03	23.98dBm or 11+10log(B) = 23.96dBm
60	5300	12.09	12.05	12.02	11.95	11.89	11.78	11.72	11.65	23.98dBm or 11+10log(B) = 23.93dBm
64	5320	12.04	11.93	11.82	11.74	11.72	11.70	11.64	11.57	23.98dBm or 11+10log(B) = 23.94dBm
100	5500	12.06	12.00	11.88	11.78	11.70	11.62	11.58	11.50	23.98dBm or 11+10log(B) = 23.83dBm
116	5580	11.68	11.62	11.53	11.45	11.38	11.31	11.19	11.15	23.98dBm or 11+10log(B) = 23.92dBm
140	5700	10.91	10.80	10.73	10.64	10.58	10.55	10.48	10.42	23.98dBm or 11+10log(B) = 23.90dBm

Note: Offset 14.81dB

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802.11n HT40 – SISO (Aux)

Cable loss = 0		The Maximum Output Power								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	9.11	8.99	8.95	8.92	8.91	8.86	8.80	8.79	16.99dBm or 4+10log(B) = 20.59dBm
46	5230	9.36	9.30	9.23	9.12	9.03	8.99	8.93	8.93	16.99dBm or 4+10log(B) = 20.59dBm
54	5270	9.27	9.27	9.27	9.14	9.07	8.95	8.85	8.79	23.98dBm or 11+10log(B) = 27.55dBm
62	5310	9.13	9.02	8.93	8.83	8.76	8.66	8.57	8.56	23.98dBm or 11+10log(B) = 27.60dBm
102	5510	9.03	8.95	8.91	8.88	8.78	8.72	8.63	8.62	23.98dBm or 11+10log(B) = 27.60dBm
118	5550	8.89	8.86	8.74	8.66	8.59	8.52	8.52	8.50	23.98dBm or 11+10log(B) = 27.60dBm
134	5670	7.95	7.85	7.78	7.65	7.52	7.47	7.46	7.46	23.98dBm or 11+10log(B) = 27.57dBm

Note: Offset 14.81dB

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802.11n HT40

Cable loss = 0		The Maximum Output Power (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	8.66	8.54	8.48	8.46	8.42	8.41	8.33	8.30	16.99dBm or 4+10log(B) = 20.59dBm
46	5230	8.49	8.38	8.33	8.19	8.18	8.11	8.01	7.88	16.99dBm or 4+10log(B) = 20.59dBm
54	5270	8.27	8.19	8.06	8.02	7.89	7.88	7.79	7.73	23.98dBm or 11+10log(B) = 27.55dBm
62	5310	8.30	8.16	8.03	7.99	7.95	7.85	7.82	7.68	23.98dBm or 11+10log(B) = 27.60dBm
102	5510	8.22	8.14	8.09	8.07	7.93	7.82	7.69	7.61	23.98dBm or 11+10log(B) = 27.60dBm
118	5550	8.01	7.95	7.94	7.87	7.78	7.75	7.70	7.68	23.98dBm or 11+10log(B) = 27.60dBm
134	5670	7.47	7.40	7.30	7.23	7.19	7.06	6.96	6.83	23.98dBm or 11+10log(B) = 27.57dBm

Note: Offset 14.81dB

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802.11n HT40

Cable loss = 0		The Maximum Output Power (CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	9.14	9.10	8.97	8.93	8.80	8.69	8.62	8.49	16.99dBm or 4+10log(B) = 20.59dBm
46	5230	9.20	9.15	9.14	9.12	8.98	8.88	8.81	8.69	16.99dBm or 4+10log(B) = 20.59dBm
54	5270	8.95	8.86	8.85	8.80	8.66	8.57	8.47	8.46	23.98dBm or 11+10log(B) = 27.55dBm
62	5310	9.13	9.05	8.91	8.91	8.91	8.77	8.74	8.73	23.98dBm or 11+10log(B) = 27.60dBm
102	5510	9.00	8.94	8.84	8.81	8.72	8.72	8.59	8.49	23.98dBm or 11+10log(B) = 27.60dBm
118	5550	8.61	8.50	8.36	8.32	8.32	8.20	8.15	8.10	23.98dBm or 11+10log(B) = 27.60dBm
134	5670	7.65	7.63	7.58	7.54	7.52	7.39	7.37	7.23	23.98dBm or 11+10log(B) = 27.57dBm

Note: Offset 14.81dB

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802.11n HT40 MIMO operation

Cable loss = 0		The Maximum Output Power (CH 0+CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	11.92	11.84	11.74	11.71	11.62	11.56	11.49	11.41	16.99dBm or 4+10log(B) = 20.59dBm
46	5230	11.87	11.79	11.76	11.69	11.61	11.52	11.44	11.31	16.99dBm or 4+10log(B) = 20.59dBm
54	5270	11.63	11.55	11.48	11.44	11.30	11.25	11.15	11.12	23.98dBm or 11+10log(B) = 27.55dBm
62	5310	11.75	11.64	11.50	11.48	11.47	11.34	11.31	11.25	23.98dBm or 11+10log(B) = 27.60dBm
102	5510	11.64	11.57	11.49	11.47	11.35	11.30	11.17	11.08	23.98dBm or 11+10log(B) = 27.60dBm
118	5550	11.33	11.24	11.17	11.11	11.07	10.99	10.94	10.91	23.98dBm or 11+10log(B) = 27.60dBm
134	5670	10.57	10.53	10.45	10.40	10.37	10.24	10.18	10.04	23.98dBm or 11+10log(B) = 27.57dBm

Note: Offset 14.81dB

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ERP/EIRP Measurement:

802.11a (Main)

Cable loss = 0		EIRP								
CH	Frequency (MHz)	Data Rate							Required Limit	
		6	9	12	18	24	36	48		
36	5180	14.50	14.45	14.42	14.38	14.33	14.33	14.22	14.15	23.01dBm or 10+10log(B) = 22.13dBm
44	5220	14.50	14.44	14.44	14.44	14.32	14.19	14.06	14.03	23.01dBm or 10+10log(B) = 22.15dBm
48	5240	14.43	14.43	14.32	14.25	14.23	14.09	13.99	13.87	23.01dBm or 10+10log(B) = 22.11dBm
52	5260	14.38	14.26	14.25	14.15	14.11	14.11	14.08	13.96	30.00dBm or 17+10log(B) = 29.12dBm
60	5300	14.23	14.11	14.03	13.90	13.84	13.73	13.67	13.53	30.00dBm or 17+10log(B) = 29.14dBm
64	5320	14.24	14.14	14.07	14.05	14.04	14.04	13.97	13.87	30.00dBm or 17+10log(B) = 29.11dBm
100	5500	13.50	13.47	13.37	13.32	13.31	13.29	13.18	13.09	30.00dBm or 17+10log(B) = 29.12dBm
116	5580	13.19	13.18	13.06	12.94	12.92	12.83	12.73	12.64	30.00dBm or 17+10log(B) = 29.13dBm
140	5700	12.69	12.65	12.51	12.39	12.25	12.14	12.03	11.94	30.00dBm or 17+10log(B) = 29.13dBm

Note: Limit is re-adjusted in terms of dBm

10*log(200mW) = 23.01dBm for the limit on the band of 5150~5250MHz

10*log(1000mW)=30.00dBm for the limit on the band of 5260~5320MHz, & 5470~5725MHz

EIRP = Conducted Power + antenna Gain of respective frequency band

Note: Cable loss is 11.8dB is set as the offset on the spectrum to compensate the loss causing by cable.

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802.11n HT20 – SISO (Main)

Cable loss = 0		EIRP								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
36	5180	11.51	11.43	11.34	11.27	11.17	11.14	11.14	11.09	23.01dBm or 10+10log(B) = 22.41dBm
44	5220	11.25	11.21	11.18	11.12	11.00	10.90	10.82	10.81	23.01dBm or 10+10log(B) = 22.42dBm
48	5240	11.03	10.97	10.96	10.83	10.74	10.70	10.57	10.51	23.01dBm or 10+10log(B) = 22.40dBm
52	5260	11.14	11.13	11.00	10.97	10.95	10.92	10.87	10.87	30.00dBm or 17+10log(B) = 29.41dBm
60	5300	10.86	10.78	10.72	10.59	10.49	10.46	10.40	10.39	30.00dBm or 17+10log(B) = 29.41dBm
64	5320	10.78	10.75	10.62	10.49	10.45	10.42	10.35	10.23	30.00dBm or 17+10log(B) = 29.42dBm
100	5500	10.19	10.15	10.06	9.96	9.82	9.76	9.71	9.58	30.00dBm or 17+10log(B) = 29.42dBm
116	5580	9.56	9.43	9.35	9.22	9.21	9.19	9.10	9.05	30.00dBm or 17+10log(B) = 29.41dBm
140	5700	9.89	9.75	9.67	9.59	9.59	9.55	9.41	9.36	30.00dBm or 17+10log(B) = 29.43dBm

Note: Offset 14.81dB

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802.11n HT20

Cable loss = 0		EIRP (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	11.55	11.41	11.35	11.25	11.13	11.07	10.98	10.91	23.01dBm or 10+10log(B) = 22.41dBm
44	5220	11.36	11.35	11.25	11.25	11.25	11.22	11.21	11.09	23.01dBm or 10+10log(B) = 22.42dBm
48	5240	11.43	11.34	11.22	11.14	11.13	11.05	10.94	10.92	23.01dBm or 10+10log(B) = 22.40dBm
52	5260	10.00	9.99	9.93	9.86	9.85	9.85	9.83	9.74	30.00dBm or 17+10log(B) = 29.41dBm
60	5300	9.78	9.76	9.74	9.74	9.71	9.57	9.50	9.47	30.00dBm or 17+10log(B) = 29.41dBm
64	5320	9.67	9.55	9.42	9.37	9.36	9.36	9.29	9.25	30.00dBm or 17+10log(B) = 29.42dBm
100	5500	10.79	10.72	10.60	10.47	10.34	10.28	10.25	10.15	30.00dBm or 17+10log(B) = 29.42dBm
116	5580	10.48	10.44	10.33	10.23	10.10	10.07	9.94	9.89	30.00dBm or 17+10log(B) = 29.41dBm
140	5700	10.67	10.62	10.52	10.39	10.25	10.15	10.01	9.94	30.00dBm or 17+10log(B) = 29.43dBm

Note: Offset 14.81dB

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802.11n HT20

Cable loss = 0		EIRP (CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	12.05	12.00	11.95	11.91	11.84	11.82	11.81	11.76	23.01dBm or 10+10log(B) = 22.41dBm
44	5220	12.14	12.14	12.07	11.98	11.97	11.84	11.79	11.72	23.01dBm or 10+10log(B) = 22.42dBm
48	5240	12.06	12.05	11.99	11.99	11.92	11.81	11.71	11.65	23.01dBm or 10+10log(B) = 22.40dBm
52	5260	10.82	10.75	10.73	10.73	10.71	10.64	10.55	10.51	30.00dBm or 17+10log(B) = 29.41dBm
60	5300	10.58	10.53	10.49	10.36	10.28	10.18	10.13	10.03	30.00dBm or 17+10log(B) = 29.41dBm
64	5320	10.58	10.48	10.39	10.28	10.26	10.21	10.17	10.07	30.00dBm or 17+10log(B) = 29.42dBm
100	5500	11.57	11.53	11.41	11.33	11.29	11.19	11.14	11.08	30.00dBm or 17+10log(B) = 29.42dBm
116	5580	11.13	11.06	10.99	10.92	10.91	10.80	10.68	10.66	30.00dBm or 17+10log(B) = 29.41dBm
140	5700	11.37	11.33	11.22	11.17	11.08	11.05	10.97	10.90	30.00dBm or 17+10log(B) = 29.43dBm

Note: Offset 14.81dB

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802.11n HT20 MIMO operation

Cable loss = 0		EIRP (CH 0 + CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
36	5180	14.82	14.73	14.67	14.60	14.51	14.47	14.43	14.37	23.01dBm or 10+10log(B) = 22.41dBm
44	5220	14.78	14.77	14.69	14.64	14.64	14.55	14.52	14.43	23.01dBm or 10+10log(B) = 22.42dBm
48	5240	14.77	14.72	14.63	14.60	14.55	14.46	14.35	14.31	23.01dBm or 10+10log(B) = 22.40dBm
52	5260	13.44	13.40	13.36	13.33	13.31	13.27	13.22	13.15	30.00dBm or 17+10log(B) = 29.41dBm
60	5300	13.21	13.17	13.14	13.07	13.01	12.90	12.84	12.77	30.00dBm or 17+10log(B) = 29.41dBm
64	5320	13.16	13.05	12.94	12.86	12.84	12.82	12.76	12.69	30.00dBm or 17+10log(B) = 29.42dBm
100	5500	14.21	14.15	14.03	13.93	13.85	13.77	13.73	13.65	30.00dBm or 17+10log(B) = 29.42dBm
116	5580	13.83	13.77	13.68	13.60	13.53	13.46	13.34	13.30	30.00dBm or 17+10log(B) = 29.41dBm
140	5700	14.04	14.00	13.89	13.81	13.70	13.63	13.53	13.46	30.00dBm or 17+10log(B) = 29.43dBm

Note: Offset 14.81dB

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802.11n HT40 – SISO (Aux)

Cable loss = 0		EIRP								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
38	5190	8.12	8.00	7.96	7.93	7.92	7.87	7.81	7.80	23.01dBm or 10+10log(B) = 25.61dBm
46	5230	8.37	8.31	8.24	8.13	8.04	8.00	7.94	7.94	23.01dBm or 10+10log(B) = 25.61dBm
54	5270	8.31	8.31	8.31	8.18	8.11	7.99	7.89	7.83	30.00dBm or 17+10log(B) = 32.60dBm
62	5310	8.17	8.06	7.97	7.87	7.80	7.70	7.61	7.60	30.00dBm or 17+10log(B) = 32.60dBm
102	5510	9.65	9.57	9.53	9.50	9.40	9.34	9.25	9.24	30.00dBm or 17+10log(B) = 32.61dBm
118	5590	9.51	9.48	9.36	9.28	9.21	9.14	9.14	9.12	30.00dBm or 17+10log(B) = 32.61dBm
134	5670	8.57	8.47	8.40	8.27	8.14	8.09	8.08	8.08	30.00dBm or 17+10log(B) = 32.61dBm

Note: Offset 14.81dB

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802.11n HT40

Cable loss = 0		EIRP (CH 0)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	10.82	10.70	10.64	10.62	10.58	10.57	10.49	10.46	23.01dBm or 10+10log(B) = 25.61dBm
46	5230	10.65	10.54	10.49	10.35	10.34	10.27	10.17	10.04	23.01dBm or 10+10log(B) = 25.61dBm
54	5270	10.68	10.60	10.47	10.43	10.30	10.29	10.20	10.14	30.00dBm or 17+10log(B) = 32.60dBm
62	5310	10.71	10.57	10.44	10.40	10.36	10.26	10.23	10.09	30.00dBm or 17+10log(B) = 32.60dBm
102	5510	10.37	10.29	10.24	10.22	10.08	9.97	9.84	9.76	30.00dBm or 17+10log(B) = 32.61dBm
118	5590	10.16	10.10	10.09	10.02	9.93	9.90	9.85	9.83	30.00dBm or 17+10log(B) = 32.61dBm
134	5670	9.62	9.55	9.45	9.38	9.34	9.21	9.11	8.98	30.00dBm or 17+10log(B) = 32.61dBm

Note: Offset 14.81dB

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802.11n HT40

Cable loss = 0		EIRP (CH1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	11.30	11.26	11.13	11.09	10.96	10.85	10.78	10.65	23.01dBm or 10+10log(B) = 25.61dBm
46	5230	11.36	11.31	11.30	11.28	11.14	11.04	10.97	10.85	23.01dBm or 10+10log(B) = 25.61dBm
54	5270	11.36	11.27	11.26	11.21	11.07	10.98	10.88	10.87	30.00dBm or 17+10log(B) = 32.60dBm
62	5310	11.54	11.46	11.32	11.32	11.32	11.18	11.15	11.14	30.00dBm or 17+10log(B) = 32.60dBm
102	5510	11.15	11.09	10.99	10.96	10.87	10.87	10.74	10.64	30.00dBm or 17+10log(B) = 32.61dBm
118	5590	10.76	10.65	10.51	10.47	10.47	10.35	10.30	10.25	30.00dBm or 17+10log(B) = 32.61dBm
134	5670	9.80	9.78	9.73	9.69	9.67	9.54	9.52	9.38	30.00dBm or 17+10log(B) = 32.61dBm

Note: Offset 14.81dB

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802.11n HT40 MIMO operation

Cable loss = 0		EIRP (CH 0 + CH 1)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
38	5190	14.08	14.00	13.90	13.87	13.78	13.72	13.65	13.57	23.01dBm or 10+10log(B) = 25.61dBm
46	5230	14.03	13.95	13.92	13.85	13.77	13.68	13.60	13.47	23.01dBm or 10+10log(B) = 25.61dBm
54	5270	14.04	13.96	13.89	13.85	13.71	13.66	13.56	13.53	30.00dBm or 17+10log(B) = 32.60dBm
62	5310	14.16	14.05	13.91	13.89	13.88	13.75	13.72	13.66	30.00dBm or 17+10log(B) = 32.60dBm
102	5510	13.79	13.72	13.64	13.62	13.50	13.45	13.32	13.23	30.00dBm or 17+10log(B) = 32.61dBm
118	5590	13.48	13.39	13.32	13.26	13.22	13.14	13.09	13.06	30.00dBm or 17+10log(B) = 32.61dBm
134	5670	12.72	12.68	12.60	12.55	12.52	12.39	12.33	12.19	30.00dBm or 17+10log(B) = 32.61dBm

Note: Offset 14.81dB

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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.

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 $0^\circ \leq \theta < 80^\circ$
- (ii) $-13 - 0.716(\theta - 80^\circ)$ dB (W/MHz) for $80^\circ \leq \theta < 40^\circ$
- (iii) $-35.9 - 1.22(\theta - 40^\circ)$ dB (W/MHz) for $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB (W/MHz) for $\theta > 45^\circ$

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9.2 Measurement Procedure (following procedure F, & E) d) method SA-2 in KDB789033 D01)

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/80MHz (Base Mode), where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
4. User the cursor on spectrum to peak search the highest level of trace
5. Add offset, duty factor n_HT20=0.10, n_HT40=0.12
6. Record the max. reading.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. For MIMO mode, add the appropriate offset.

9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

9.4 Test Set-up:

Refer to section 7.4 for details.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of PSD

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9.5 Measurement Result

802.11a, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.23	4.00	-6.23
5220	-1.60	4.00	-5.60
5240	-1.92	4.00	-5.92

802.11a, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-2.23	11.00	-13.23
5300	-1.51	11.00	-12.51
5320	-1.99	11.00	-12.99

802.11a, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-2.78	11.00	-13.78
5580	-2.51	11.00	-13.51
5700	-3.90	11.00	-14.90

Note: Offset 11.9dB (5150~5350MHz); 11.4dB (5470~5725MHz)

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802.11n HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.39	4.00	-6.39
5220	-2.14	4.00	-6.14
5240	-1.94	4.00	-5.94

802.11n HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-2.46	11.00	-13.46
5300	-1.92	11.00	-12.92
5320	-1.89	11.00	-12.89

802.11n HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-3.38	11.00	-14.38
5580	-3.43	11.00	-14.43
5700	-4.80	11.00	-15.80

Note: Offset 14.9dB (5150~5350MHz), 14.5dB (5470~5725MHz), where = cable loss + attenuator + duty factor + MIMO factor

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802.11n HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-6.88	4.00	-10.88
5230	-6.94	4.00	-10.94

802.11n HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	-6.51	11.00	-17.51
5310	-6.24	11.00	-17.24

802.11n HT40, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5510	-7.44	11.00	-18.44
5550	-7.56	11.00	-18.56
5670	-7.97	11.00	-18.97

Note: Offset 14.9dB (5150~5350MHz), 14.5dB (5470~5725MHz), where = cable loss + attenuator + duty factor + MIMO factor

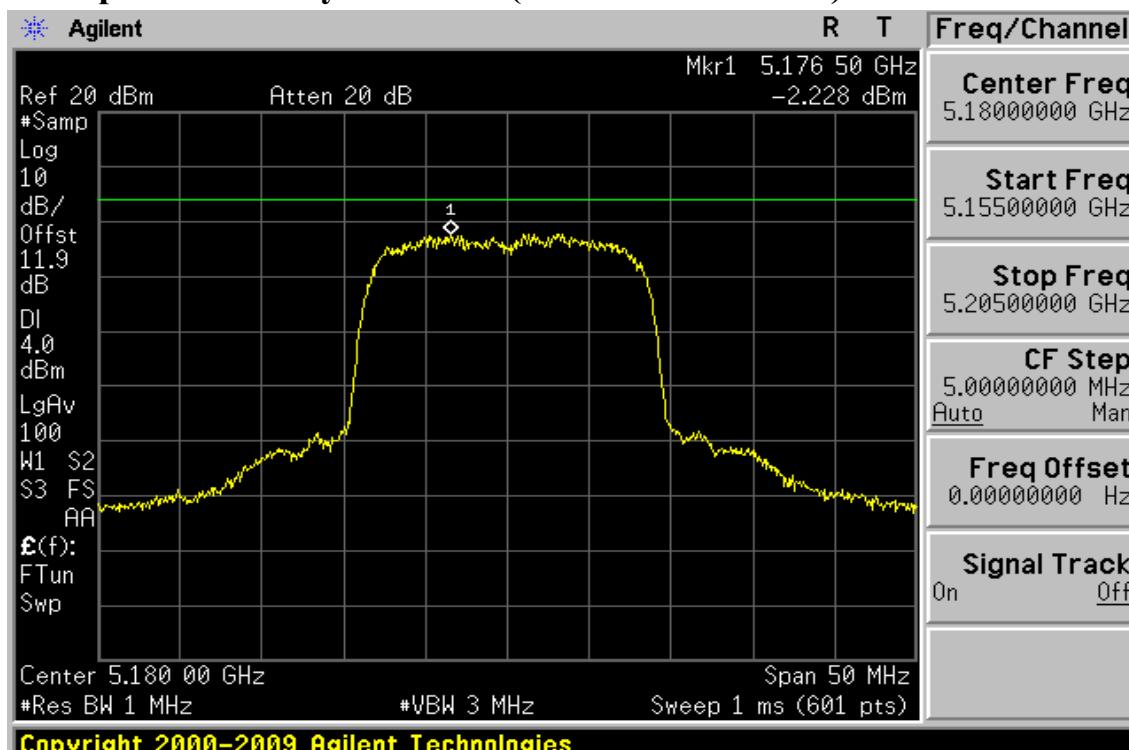
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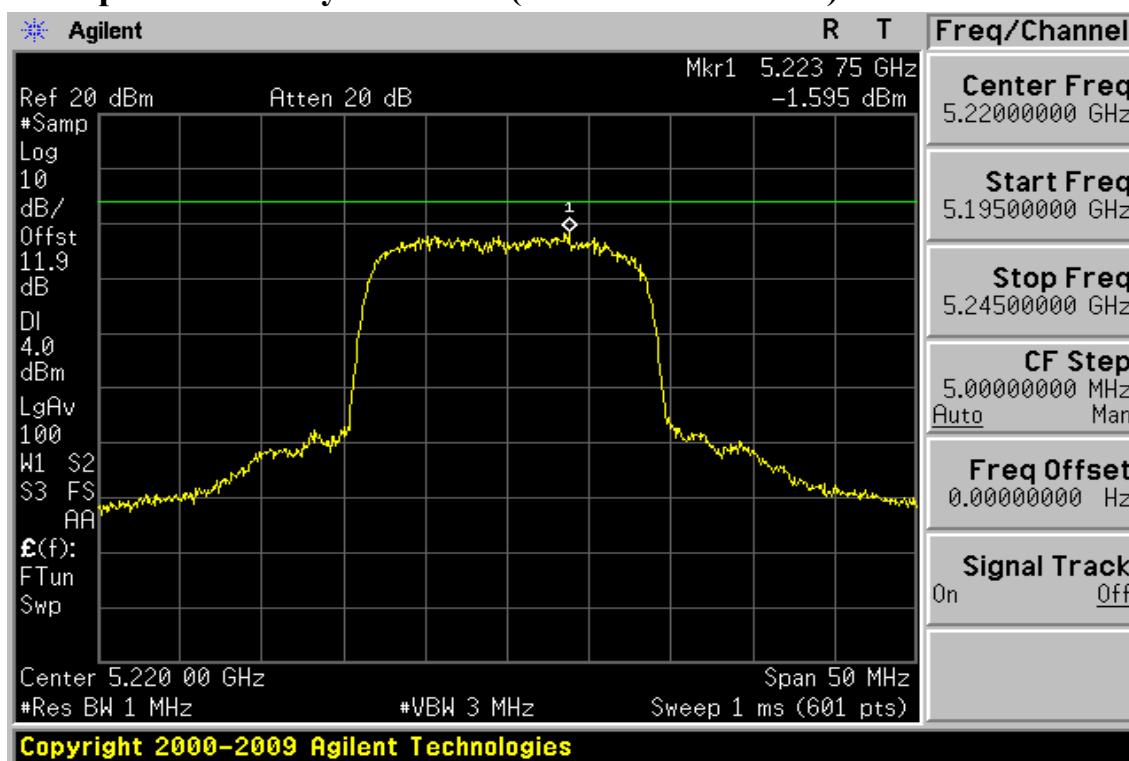
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802.11a, 5150~5250 MHz

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



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

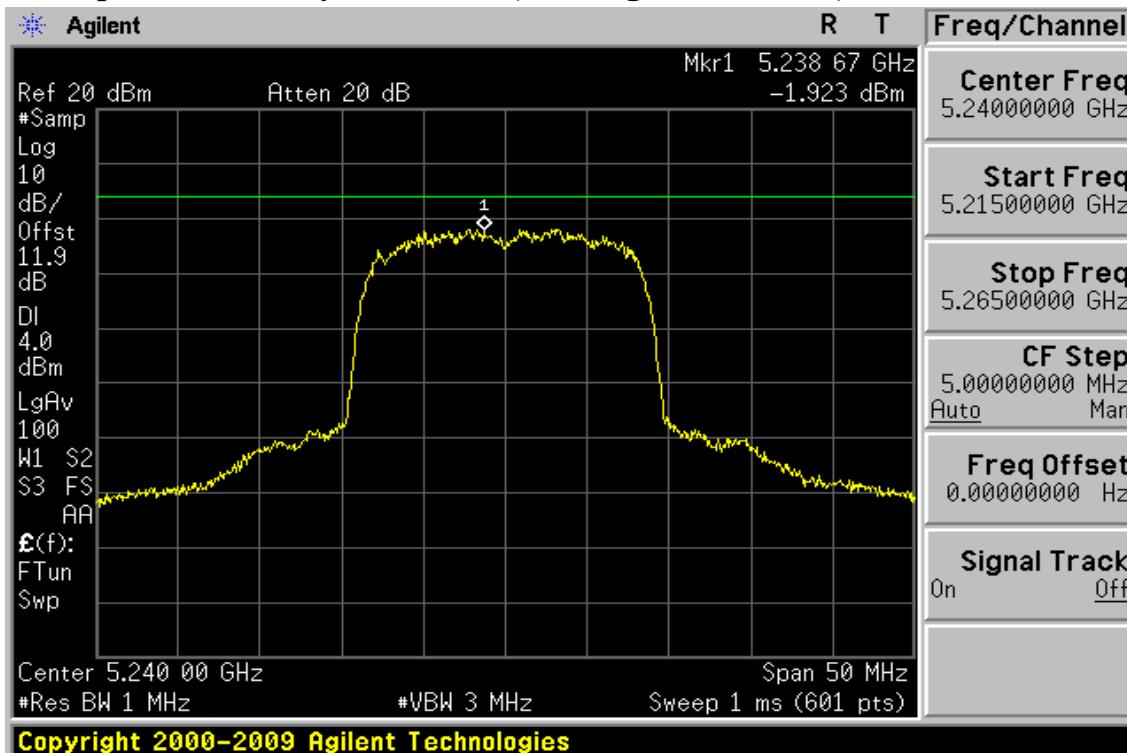


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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



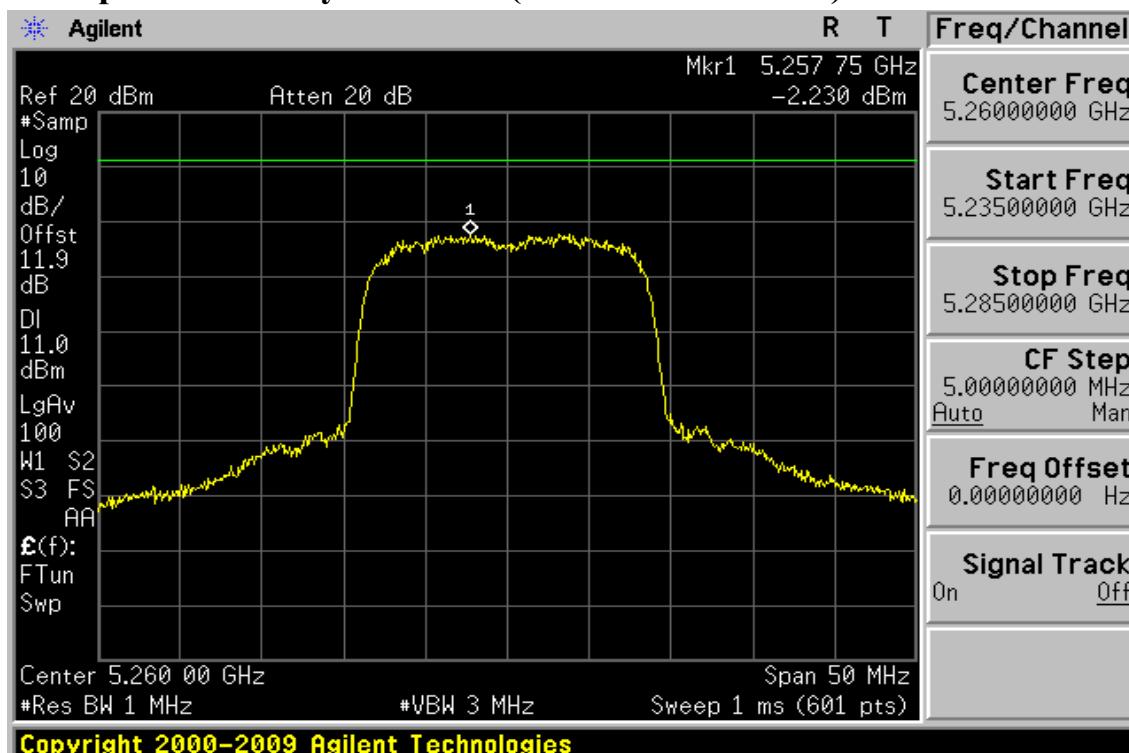
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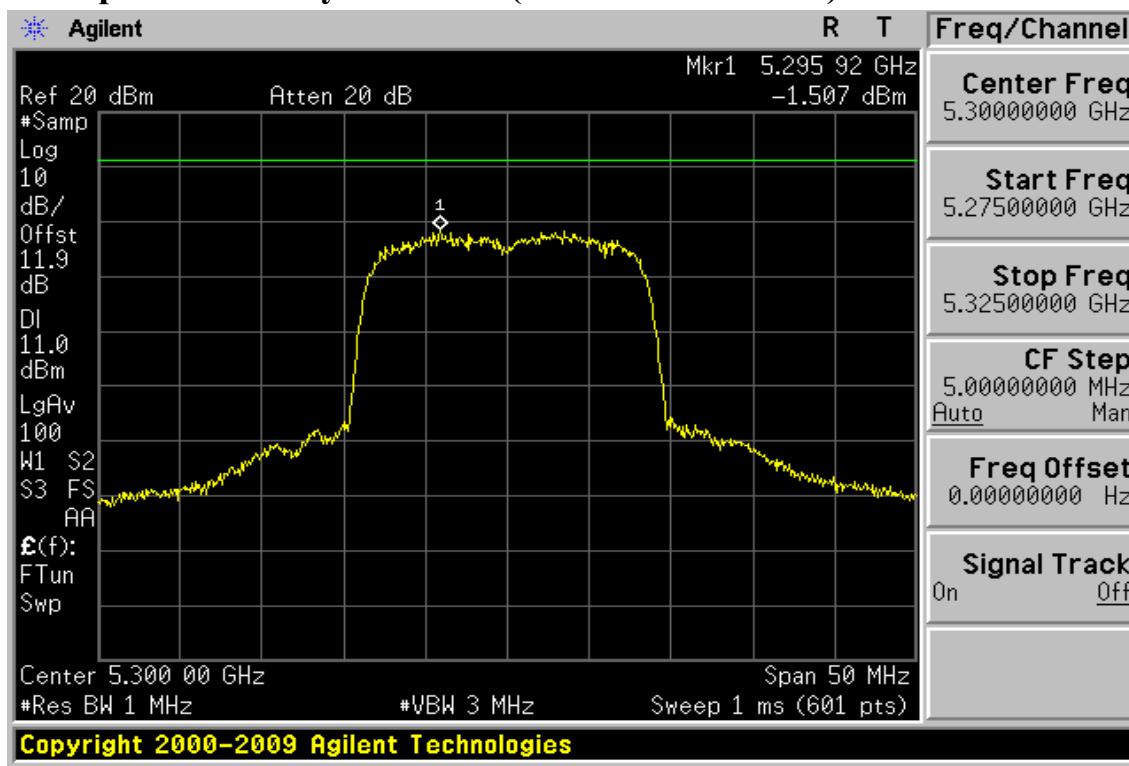
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802.11a, 5250~5350 MHz

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



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

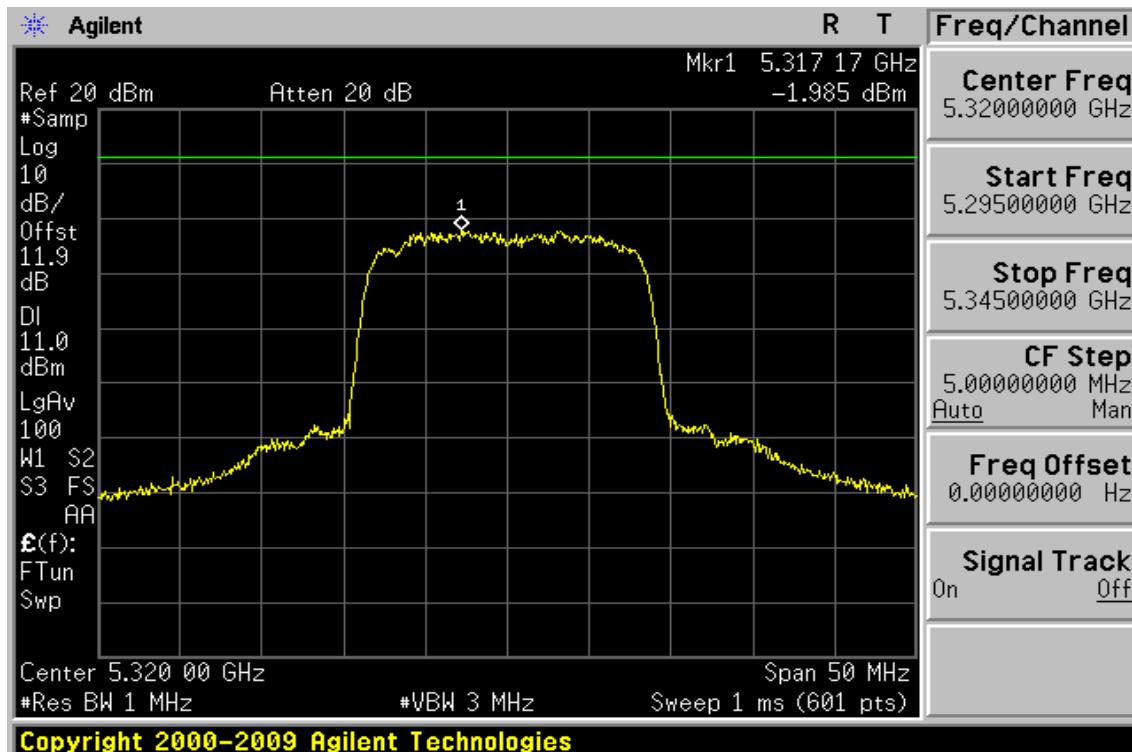


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



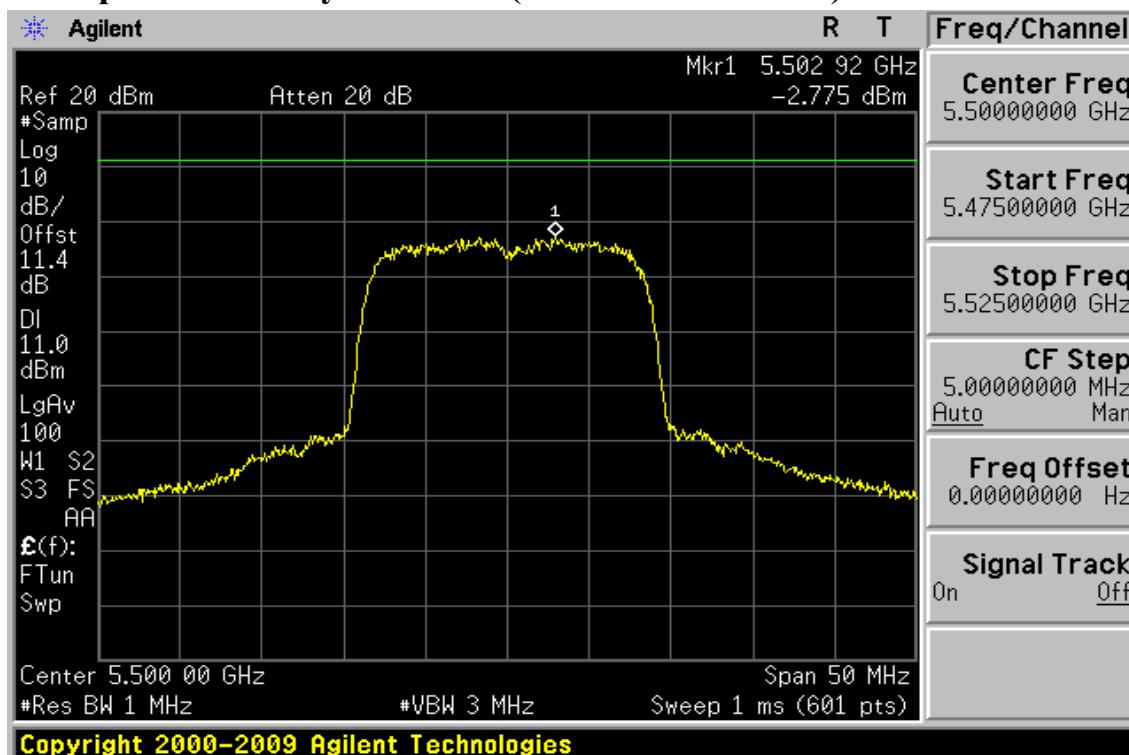
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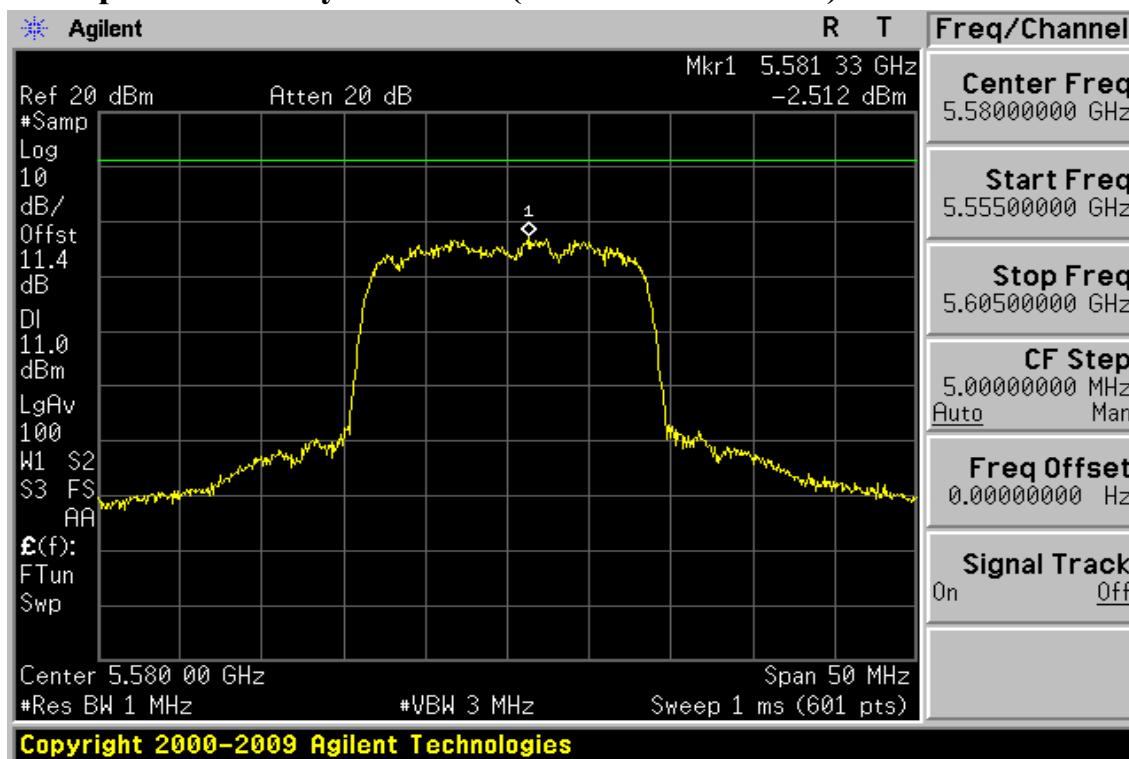
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802.11a, 5470~5725 MHz

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



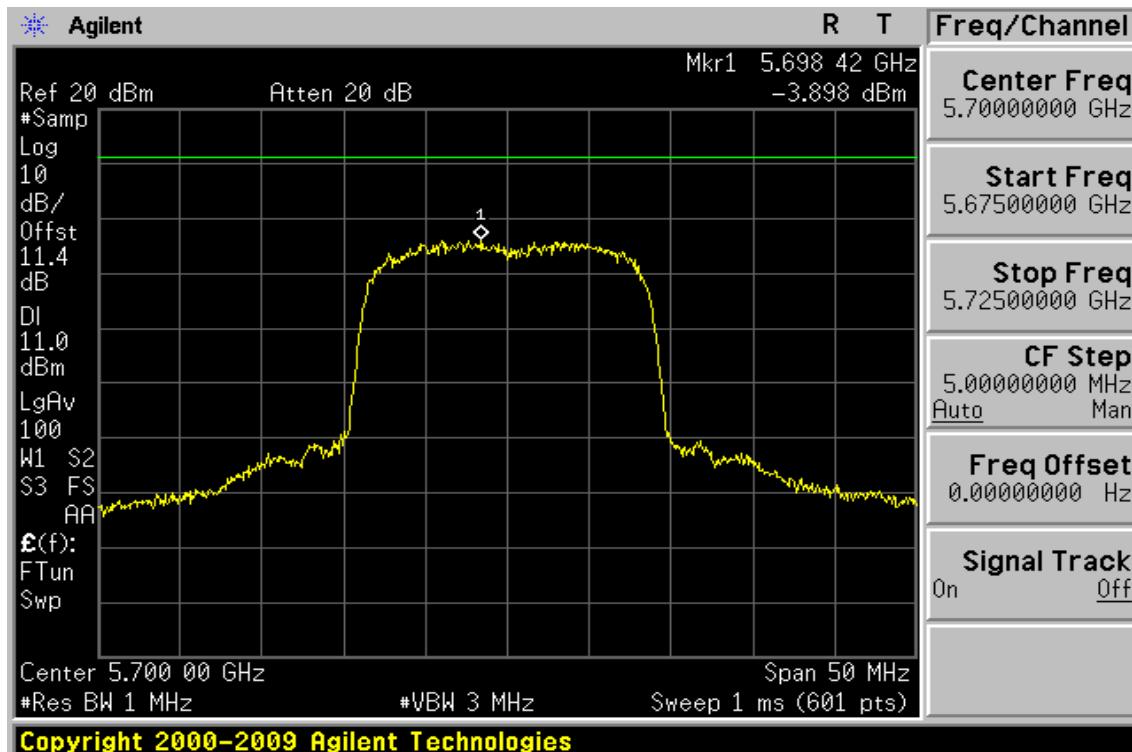
Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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

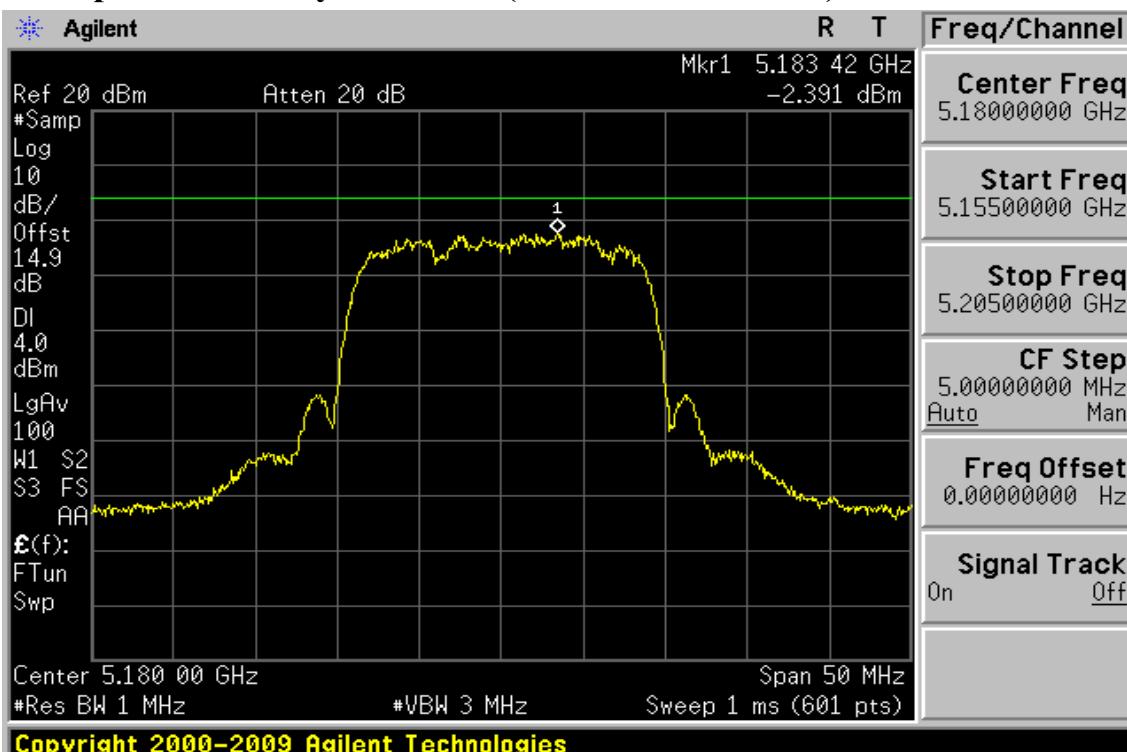
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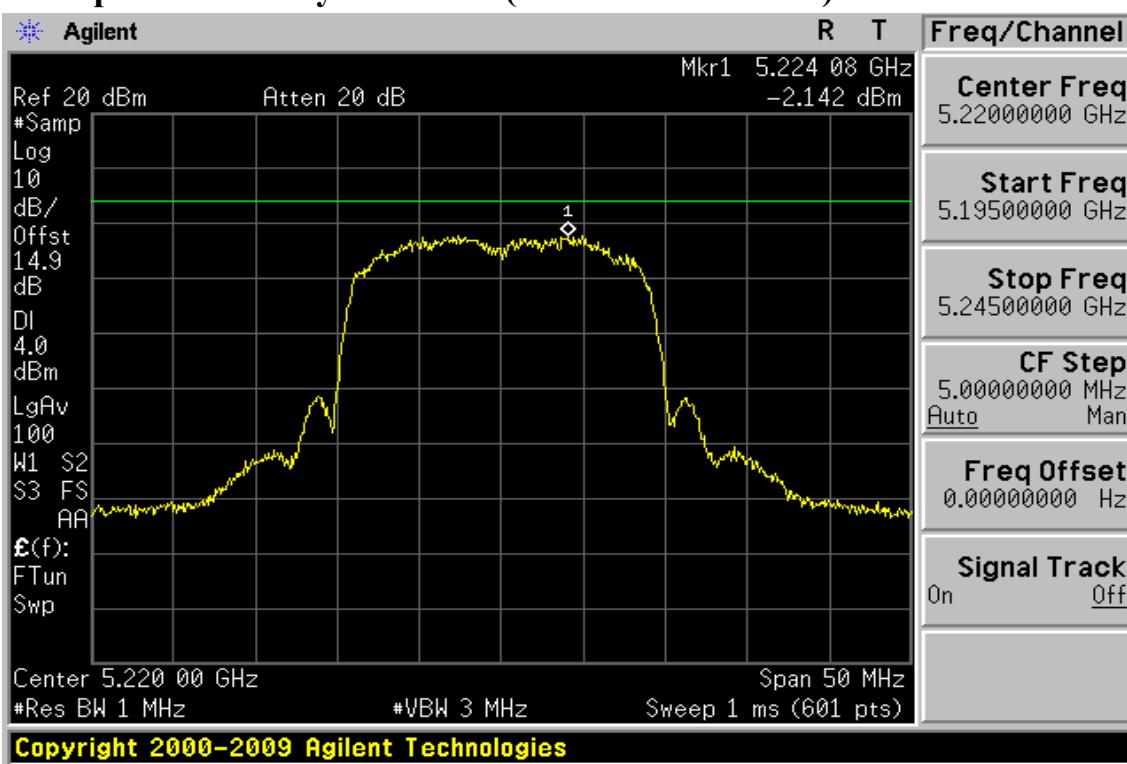
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802.11n HT20, 5150~5250 MHz

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



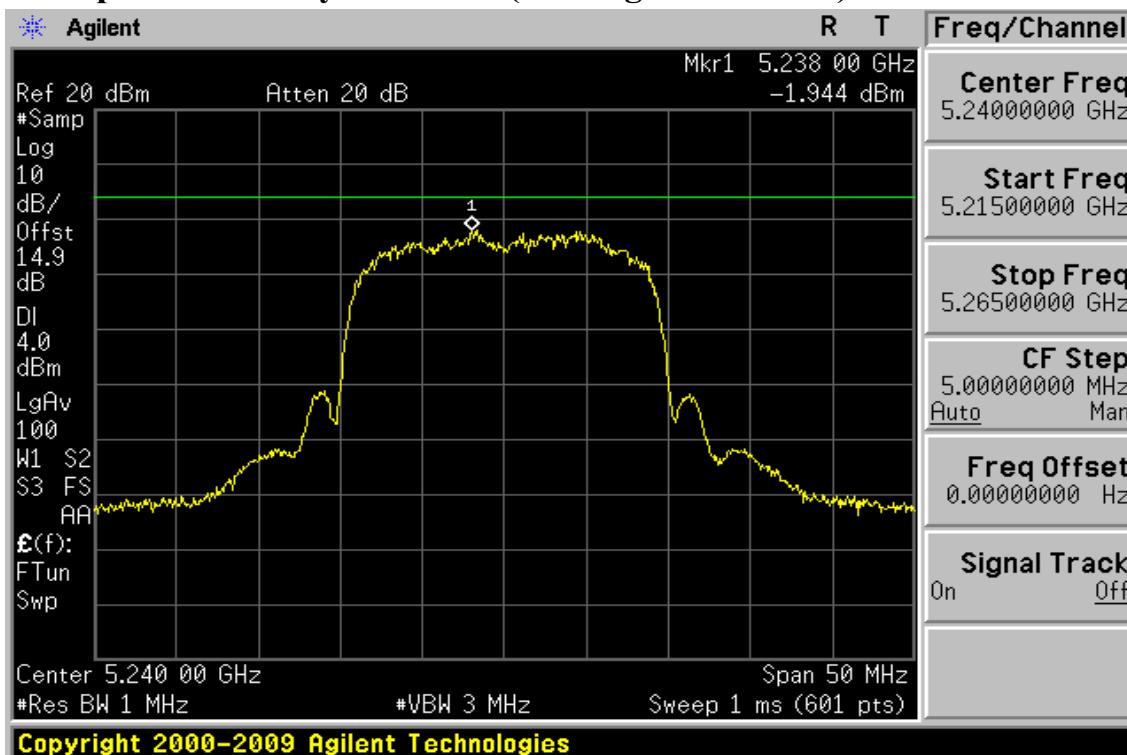
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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

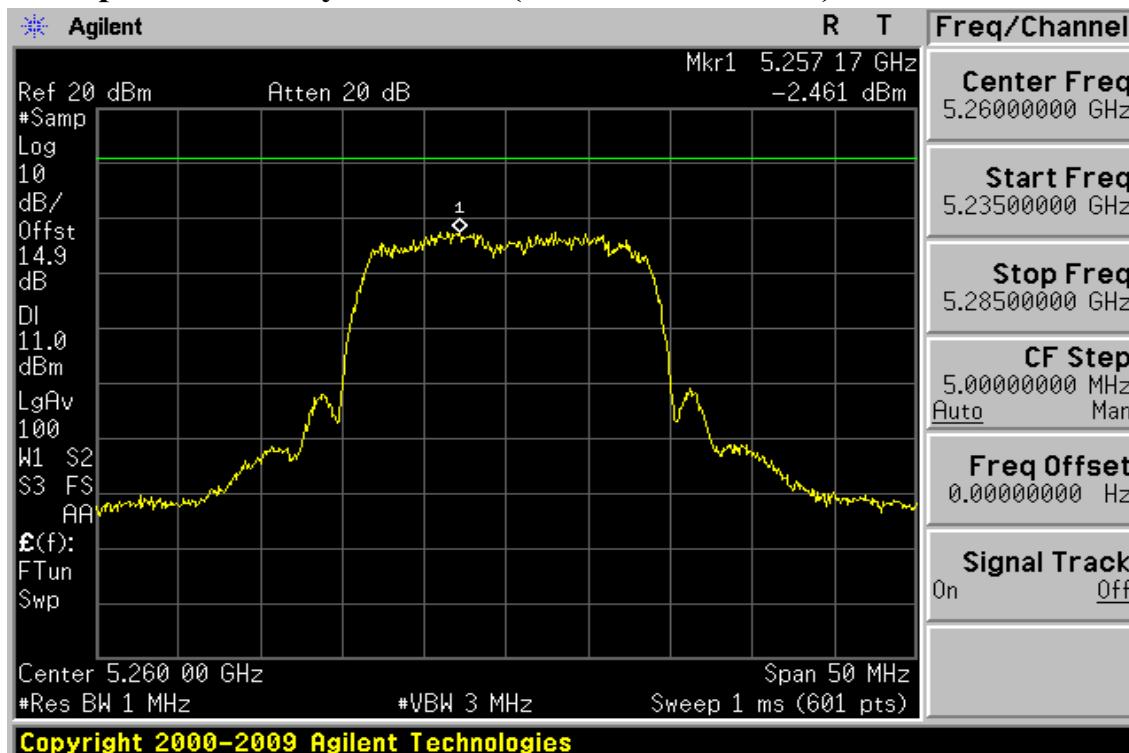
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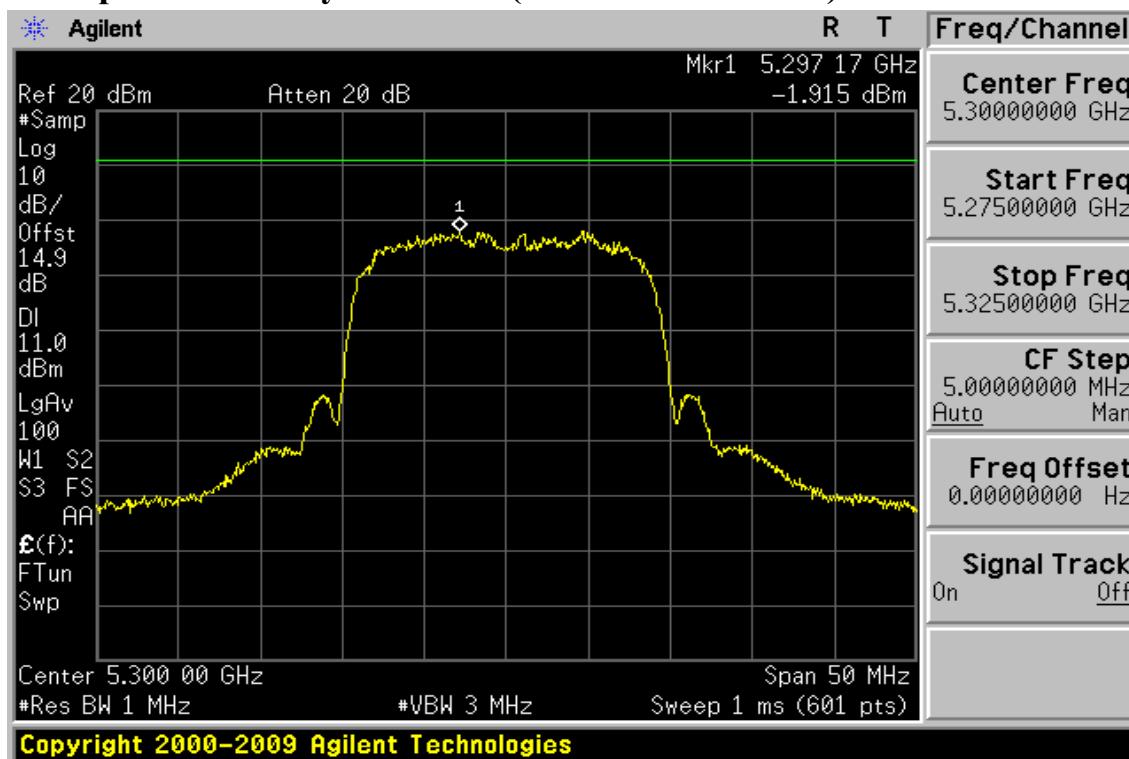
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802.11n HT20, 5250~5350 MHz

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



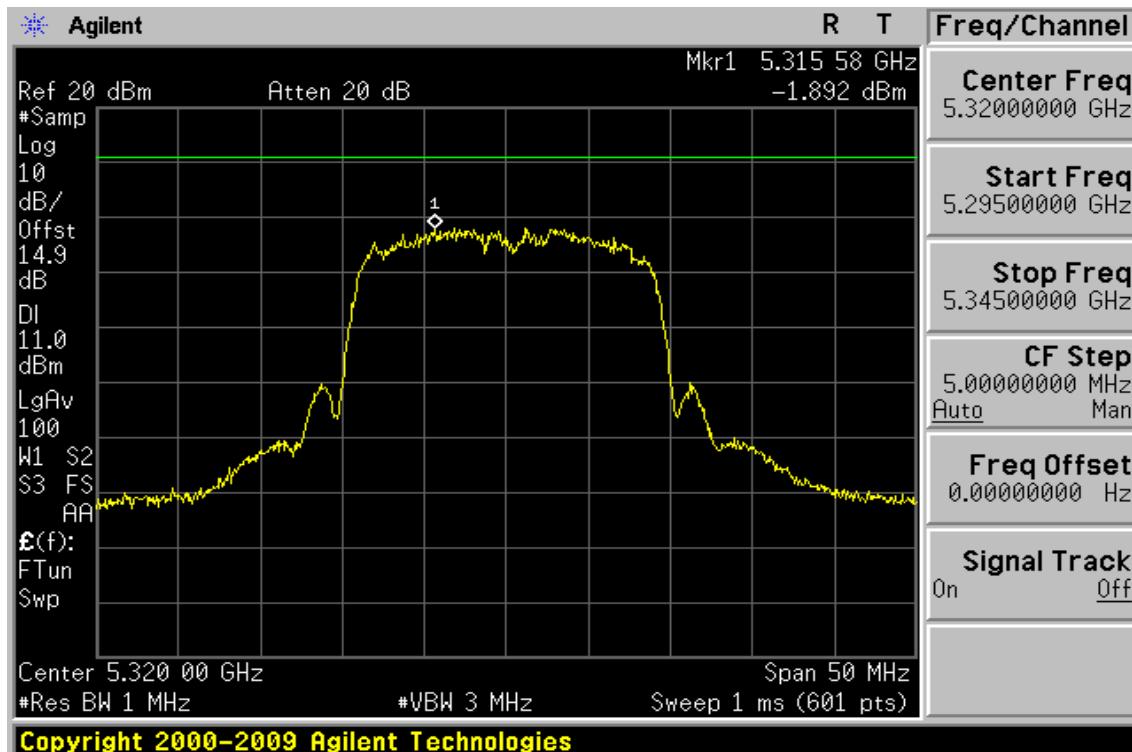
Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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

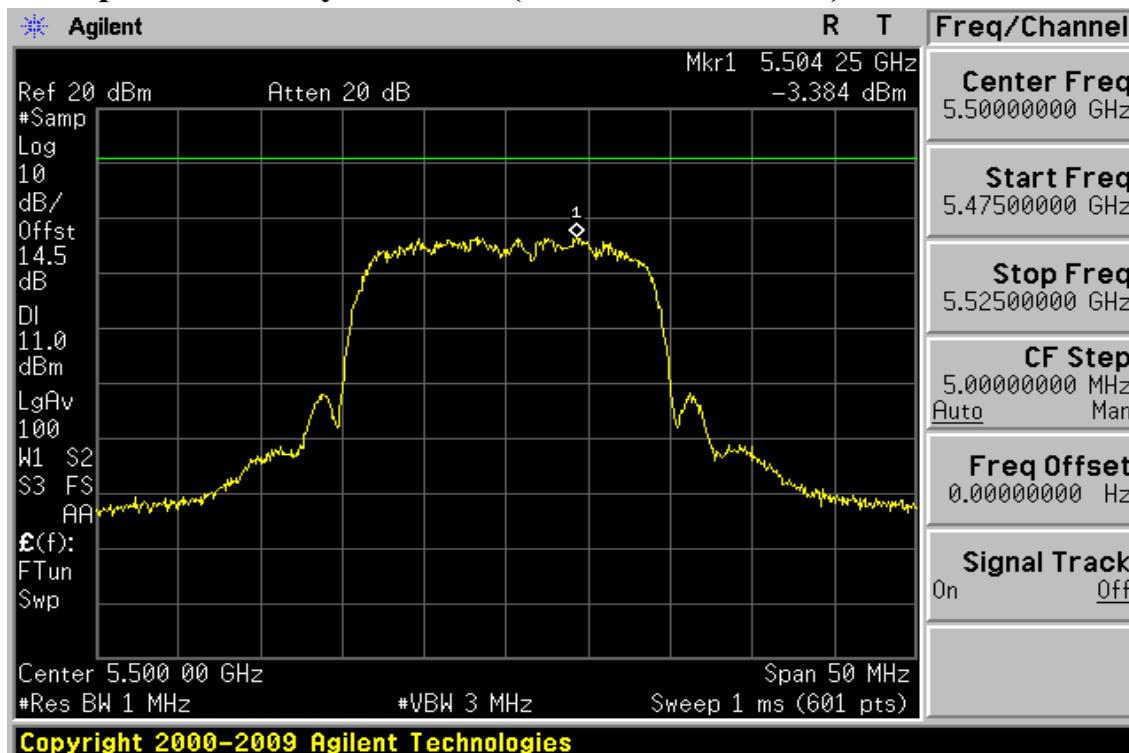
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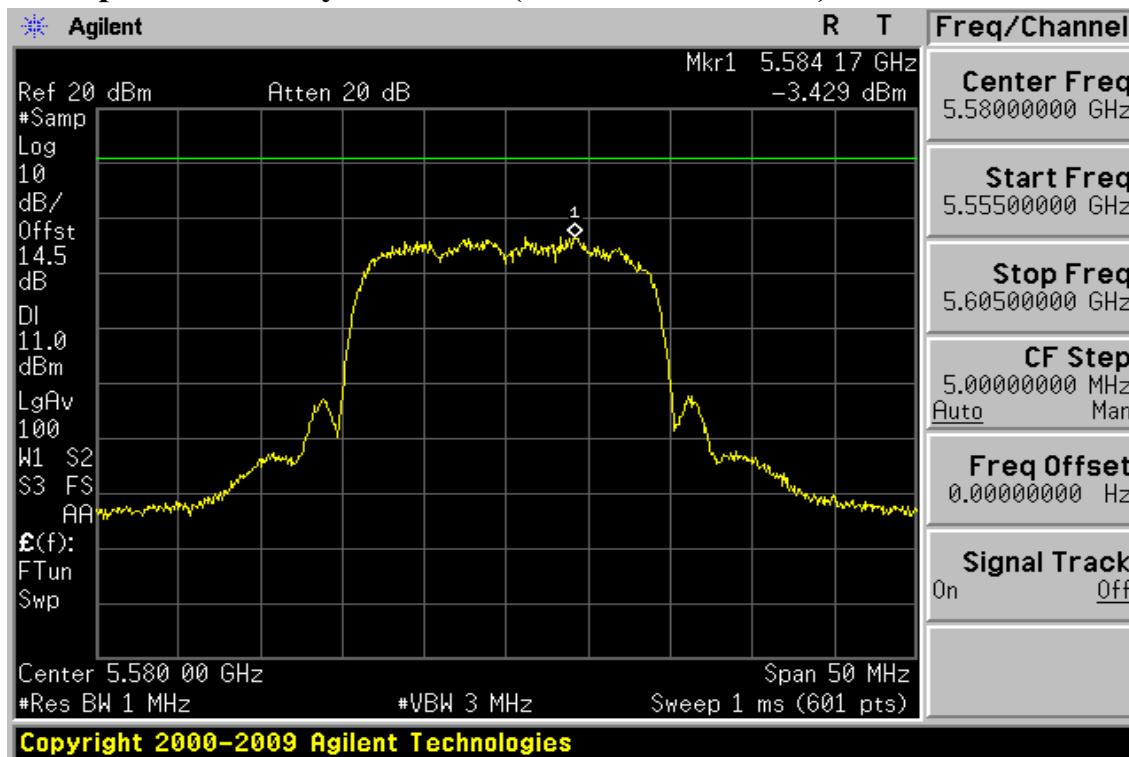
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802.11n HT20, 5470~5725 MHz

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



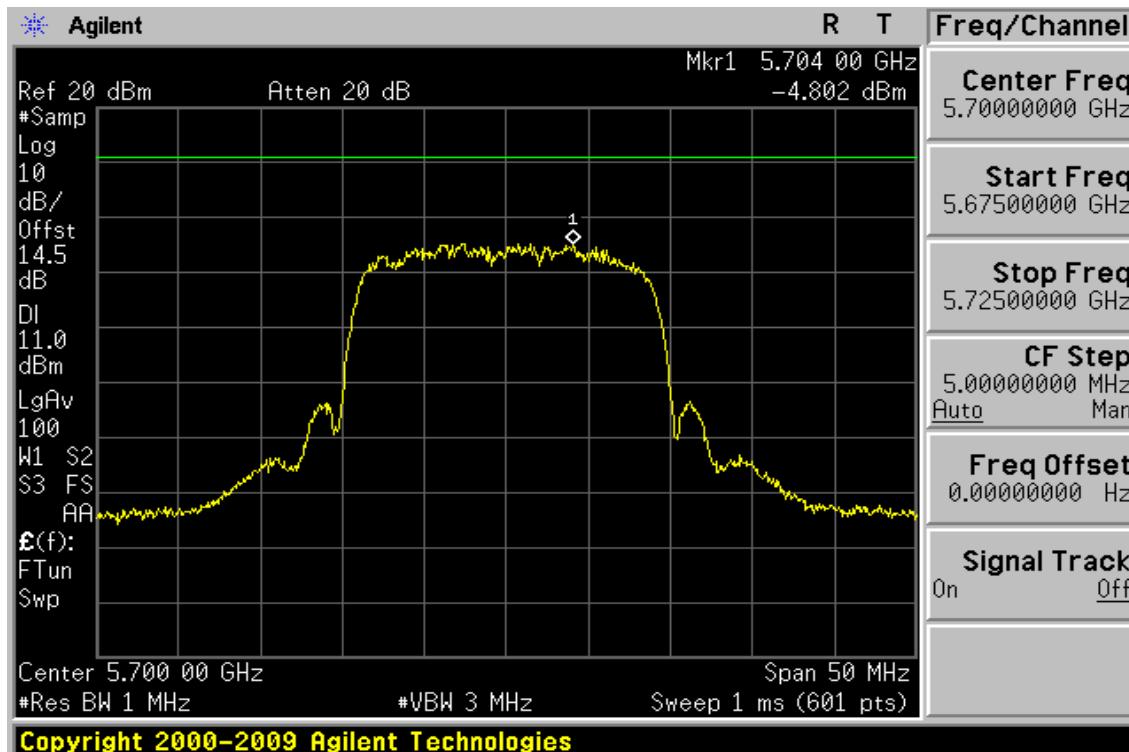
Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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

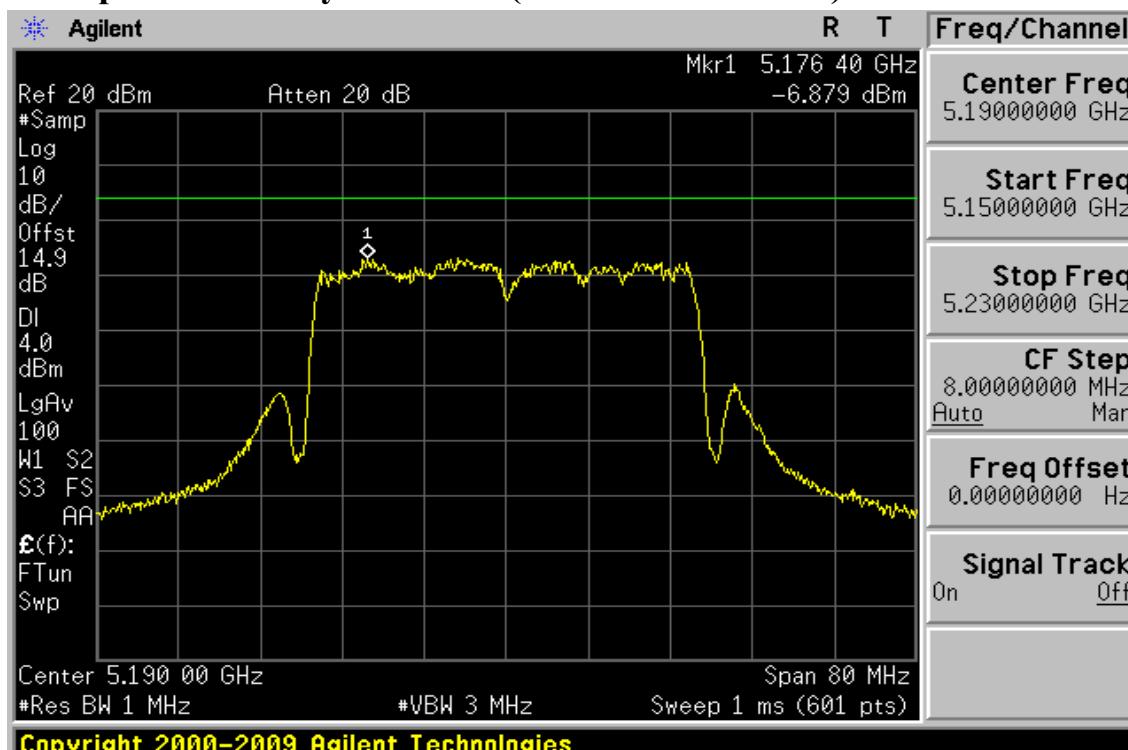
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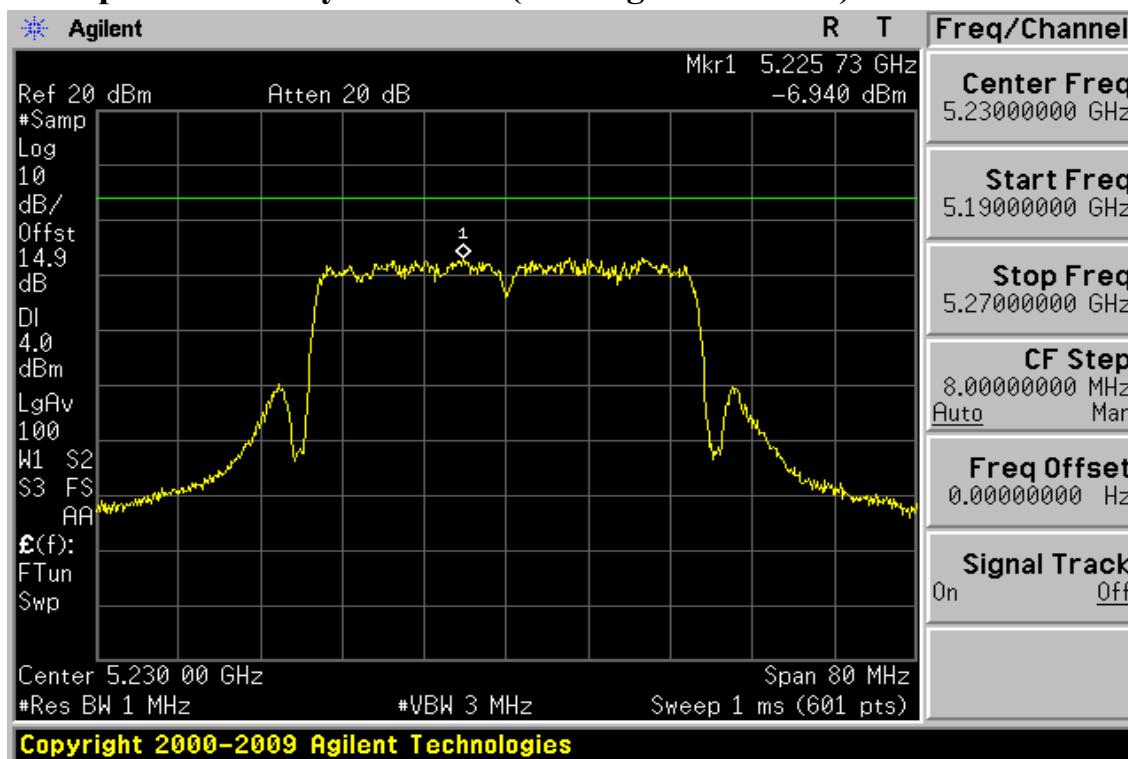
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802.11n HT40, 5150~5250 MHz

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



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



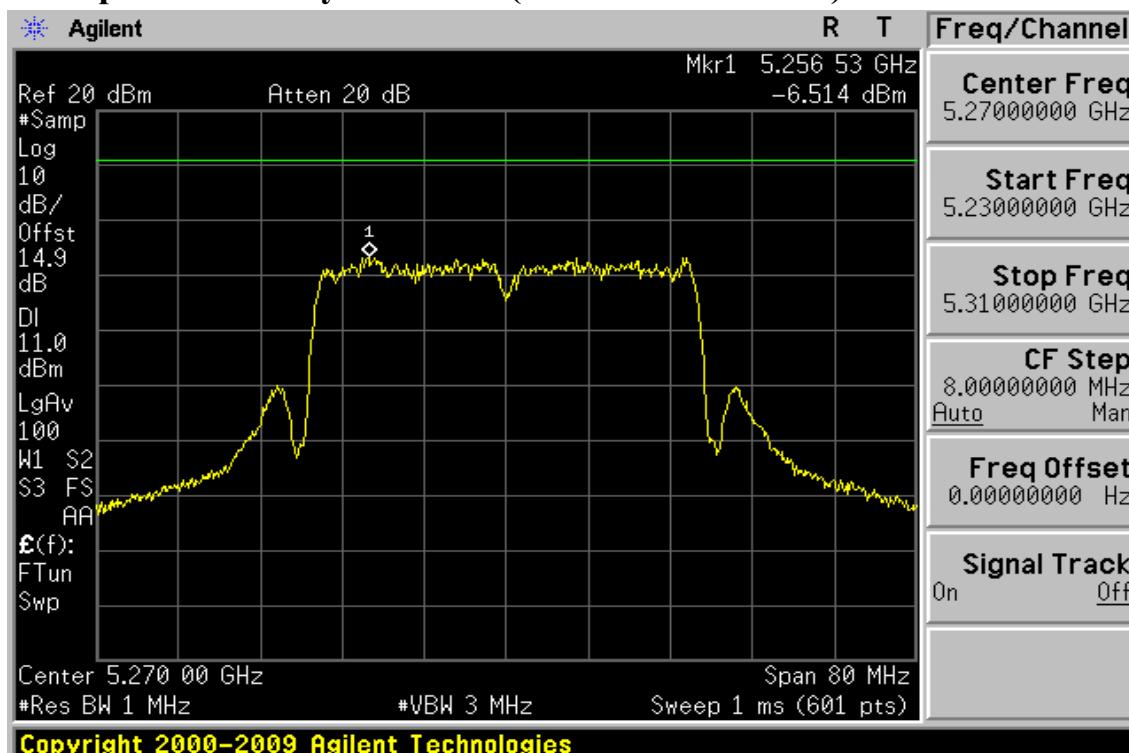
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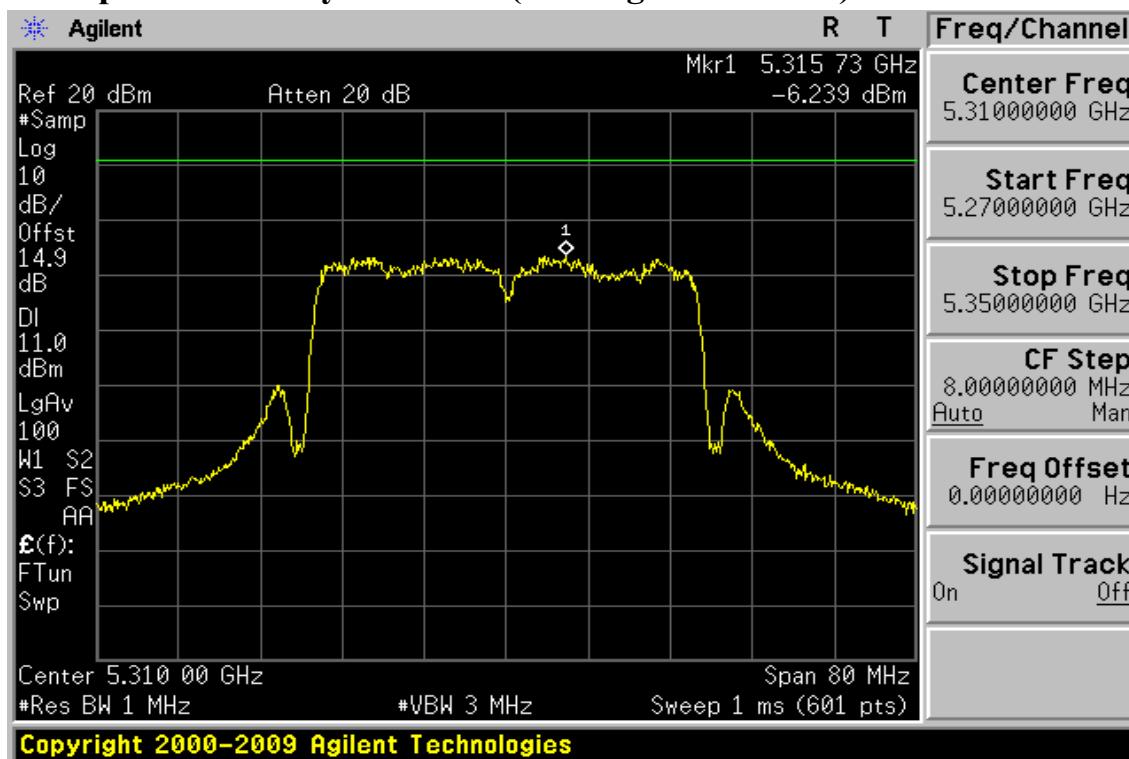
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802.11n HT40, 5250~5350 MHz

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



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



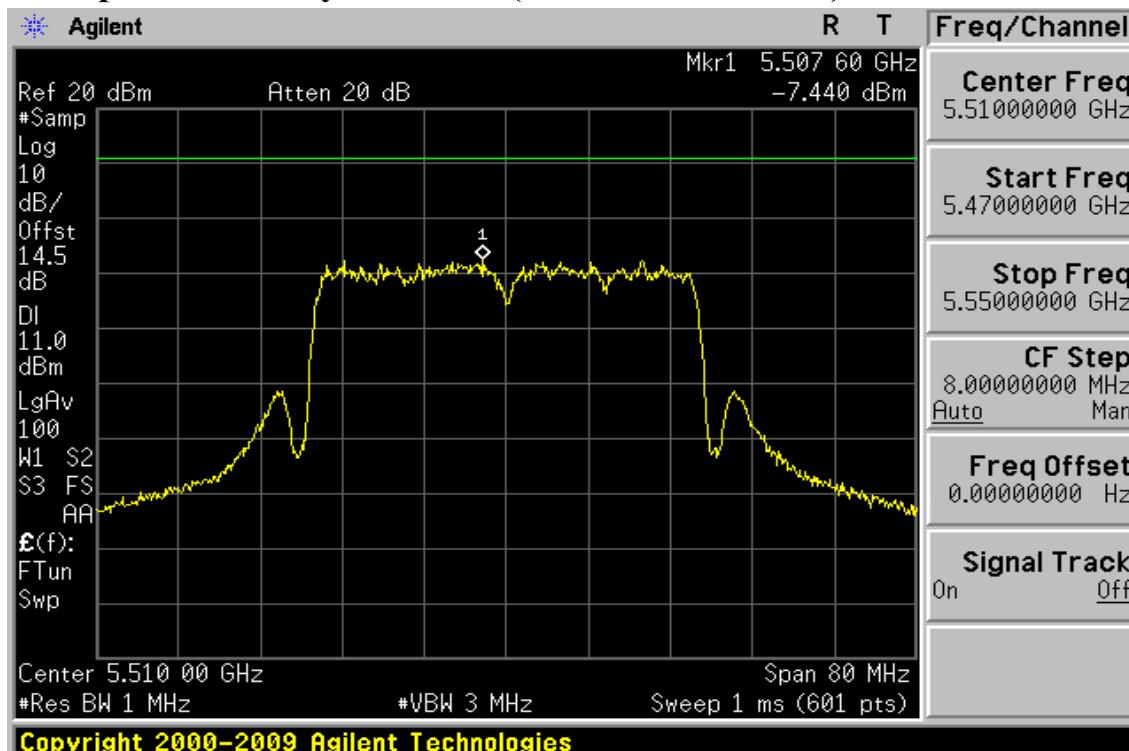
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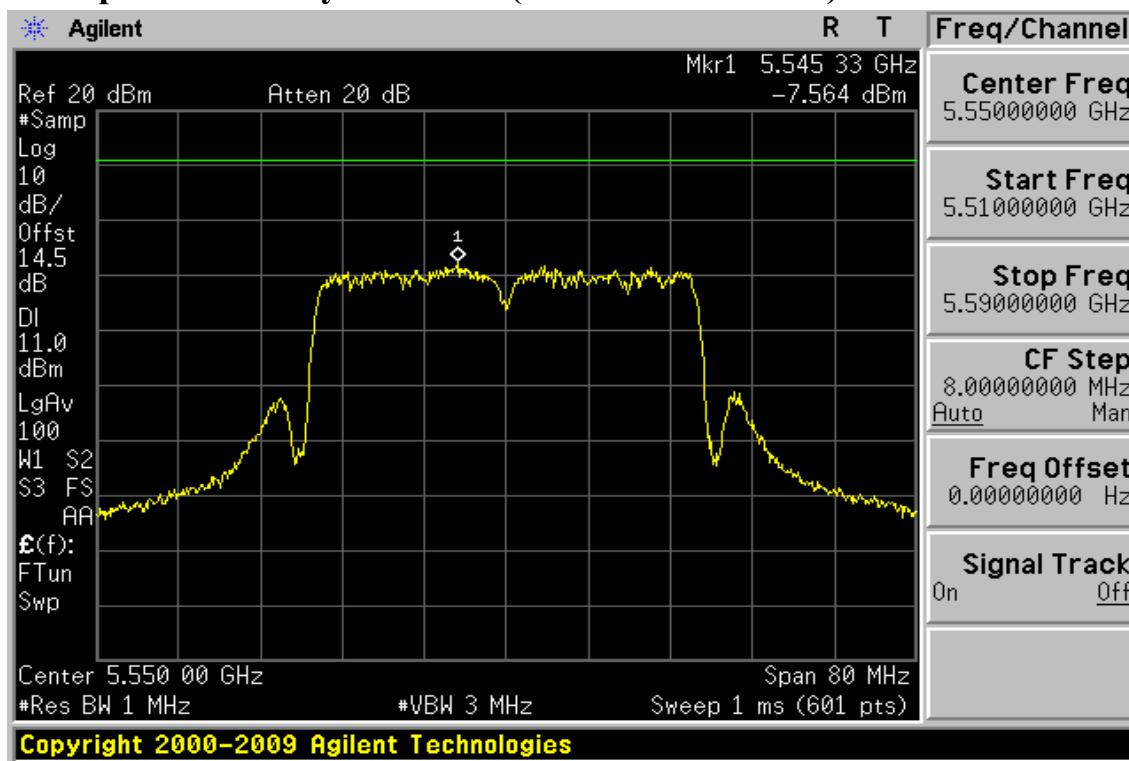
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802.11n HT40, 5470~5725 MHz

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



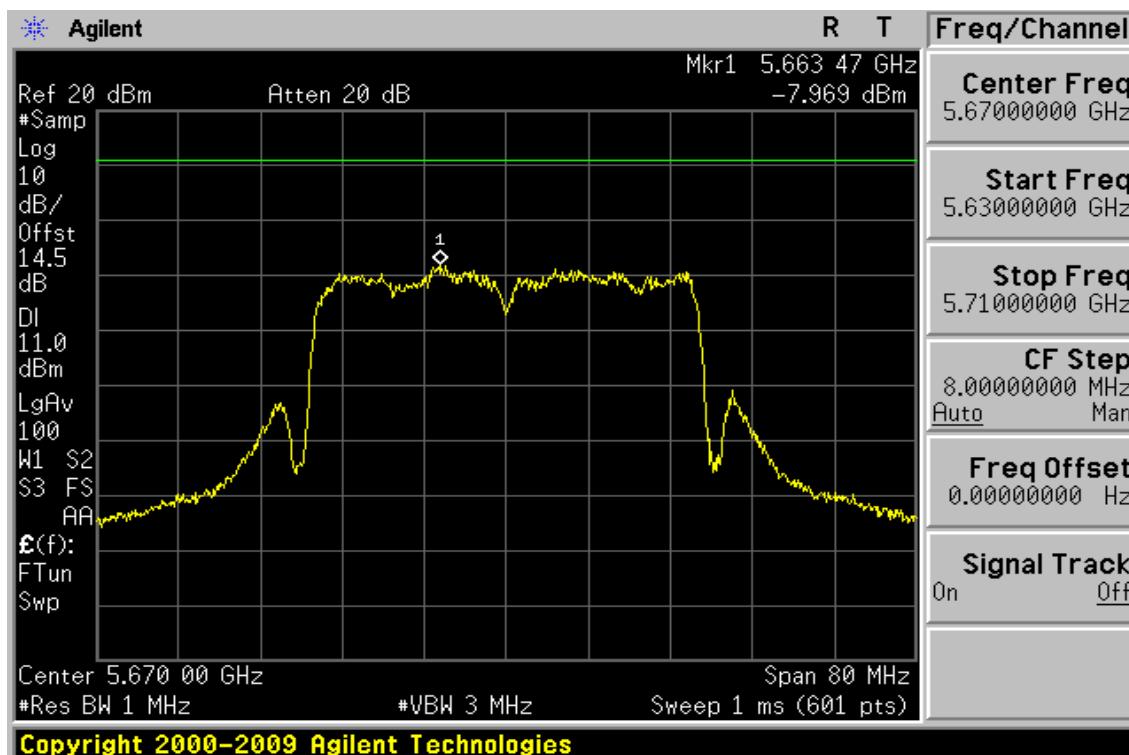
Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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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 (following procedure G in KDB789033)

1. Pre-evaluation in selection for test mode based on KDB789033
2. Tests mode selection is based on the variations in signal structure,
 - (i) All signal types - OFDM;
 - (ii) All modulation types (BPSK, QPSK, 16-QAM, 64-QAM);
 - (iii) All bandwidth modes (20MHz, and 40MHz for 802.11n);
 - (iv) All variations in signal parameters (inapplicable);
 - (v) Error-correction coding rate (not required);
3. Place the EUT on the table and set it in transmitting mode.
4. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
5. Set RBW=1MHz, VBW = 3MHz, span =enough to capture the signal of the interest, Max. Hold, Detector = peak
6. use the procedure specified in KDB 789033 F) to determine the PPSD
7. compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD by the subtraction
8. Repeat above procedures until all default test mode of default frequency band of the test is completed.

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802.11a

Table 18-4—Modulation-dependent parameters

Modulation	Coding rate (R)	Coded bits per subcarrier (N_{BPSC})	Coded bits per OFDM symbol (N_{CBPS})	Data bits per OFDM symbol (N_{DBPS})	Data rate (Mb/s) (20 MHz channel spacing)	Data rate (Mb/s) (10 MHz channel spacing)	Data rate (Mb/s) (5 MHz channel spacing)
BPSK	1/2	1	48	24	6	3	1.5
BPSK	3/4	1	48	36	9	4.5	2.25
QPSK	1/2	2	96	48	12	6	3
QPSK	3/4	2	96	72	18	9	4.5
16-QAM	1/2	4	192	96	24	12	6
16-QAM	3/4	4	192	144	36	18	9
64-QAM	2/3	6	288	192	48	24	12
64-QAM	3/4	6	288	216	54	27	13.5

802.11n_20

Table 20-30—MCS parameters for mandatory 20 MHz, $N_{SS} = 1$, $N_{ES} = 1$

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI (see NOTE)
0	BPSK	1/2	1	52	4	52	26	6.5	7.2
1	QPSK	1/2	2	52	4	104	52	13.0	14.4
2	QPSK	3/4	2	52	4	104	78	19.5	21.7
3	16-QAM	1/2	4	52	4	208	104	26.0	28.9
4	16-QAM	3/4	4	52	4	208	156	39.0	43.3
5	64-QAM	2/3	6	52	4	312	208	52.0	57.8
6	64-QAM	3/4	6	52	4	312	234	58.5	65.0
7	64-QAM	5/6	6	52	4	312	260	65.0	72.2

NOTE—Support of 400 ns GI is optional on transmit and receive.

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802.11n_40

Table 20-34—MCS parameters for optional 40 MHz, $N_{SS} = 1$, $N_{ES} = 1$

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI
0	BPSK	1/2	1	108	6	108	54	13.5	15.0
1	QPSK	1/2	2	108	6	216	108	27.0	30.0
2	QPSK	3/4	2	108	6	216	162	40.5	45.0
3	16-QAM	1/2	4	108	6	432	216	54.0	60.0
4	16-QAM	3/4	4	108	6	432	324	81.0	90.0
5	64-QAM	2/3	6	108	6	648	432	108.0	120.0
6	64-QAM	3/4	6	108	6	648	486	121.5	135.0
7	64-QAM	5/6	6	108	6	648	540	135.0	150.0

802.11n_20_MIMO

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI (see NOTE)
8	BPSK	1/2	1	52	4	104	52	13.0	14.4
9	QPSK	1/2	2	52	4	208	104	26.0	28.9
10	QPSK	3/4	2	52	4	208	156	39.0	43.3
11	16-QAM	1/2	4	52	4	416	208	52.0	57.8
12	16-QAM	3/4	4	52	4	416	312	78.0	86.7
13	64-QAM	2/3	6	52	4	624	416	104.0	115.6
14	64-QAM	3/4	6	52	4	624	468	117.0	130.0
15	64-QAM	5/6	6	52	4	624	520	130.0	144.4

NOTE—The 400 ns GI rate values are rounded to 1 decimal place.

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802.11n_40_MIMO

MCS Index	Modulation	<i>R</i>	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI
8	BPSK	1/2	1	108	6	216	108	27.0	30.0
9	QPSK	1/2	2	108	6	432	216	54.0	60.0
10	QPSK	3/4	2	108	6	432	324	81.0	90.0
11	16-QAM	1/2	4	108	6	864	432	108.0	120.0
12	16-QAM	3/4	4	108	6	864	648	162.0	180.0
13	64-QAM	2/3	6	108	6	1296	864	216.0	240.0
14	64-QAM	3/4	6	108	6	1296	972	243.0	270.0
15	64-QAM	5/6	6	108	6	1296	1080	270.0	300.0

Note: The test mode to be performed is circle in red as presents above

10.3 Measurement Equipment Used:

Refer to section 7.3 for details.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of Peak Excursion.

10.4 Test Set-up:

Refer to section 7.4 for details.

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10.5 Test Results:

Modulation Type: BPSK

Coding Rate: 1/2

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.38	-1.595	9.98	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	7.51	-1.507	9.02	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.30	-2.512	9.81	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.56	-2.142	10.70	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.57	-1.915	10.49	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.07	-3.429	10.50	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	4.75	-6.879	11.63	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	4.70	-6.514	11.21	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	4.08	-7.44	11.52	13.00

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Modulation Type: QPSK**Coding Rate: 1/2**

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.86	-1.615	10.48	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.86	-1.06	9.92	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	6.56	-3.491	10.05	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.22	-1.340	10.56	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.28	-2.332	11.61	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.36	-3.257	10.62	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	5.12	-6.665	11.79	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	4.92	-7.017	11.94	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	3.82	-8.583	12.40	13.00

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Modulation Type: 16-QAM**Coding Rate: 1/2**

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.18	-2.225	10.41	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	8.29	-1.55	9.84	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	6.93	-3.892	10.82	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.73	-3.397	12.13	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	10.50	-1.969	12.47	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.17	-3.925	11.10	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	4.62	-8.121	12.74	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	4.83	-8.116	12.95	13.00

802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	3.57	-8.704	12.27	13.00

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Modulation Type: 64-QAM**Coding Rate: 2/3**

802.11a, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	9.23	-2.988	12.22	13.00

802.11a, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.60	-2.401	12.00	13.00

802.11a, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.94	-4.311	12.25	13.00

802.11n HT20, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5220	8.79	-3.183	11.97	13.00

802.11n HT20, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5300	9.22	-3.656	12.88	13.00

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802.11n HT20, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Mid	5580	7.40	-3.511	10.91	13.00

802.11n HT40, 5150~5250 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5190	4.75	-7.368	12.12	13.00

802.11n HT40, 5250~5350 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5270	4.43	-7.545	11.98	13.00

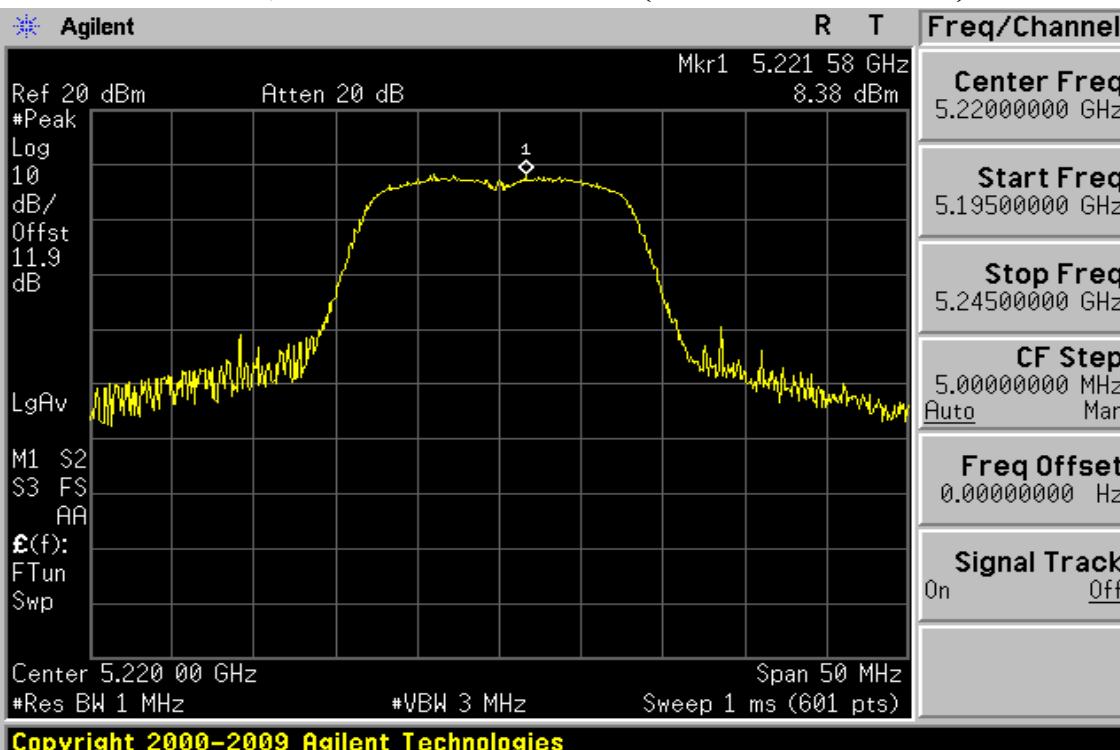
802.11n HT40, 5470~5725 MHz_MIMO

Channel	Frequency (MHz)	Peak Value(dBm)	PPSD (dBm)	Peak Excursion (dB)	Limit (dB)
Low	5510	3.64	-8.088	11.73	13.00

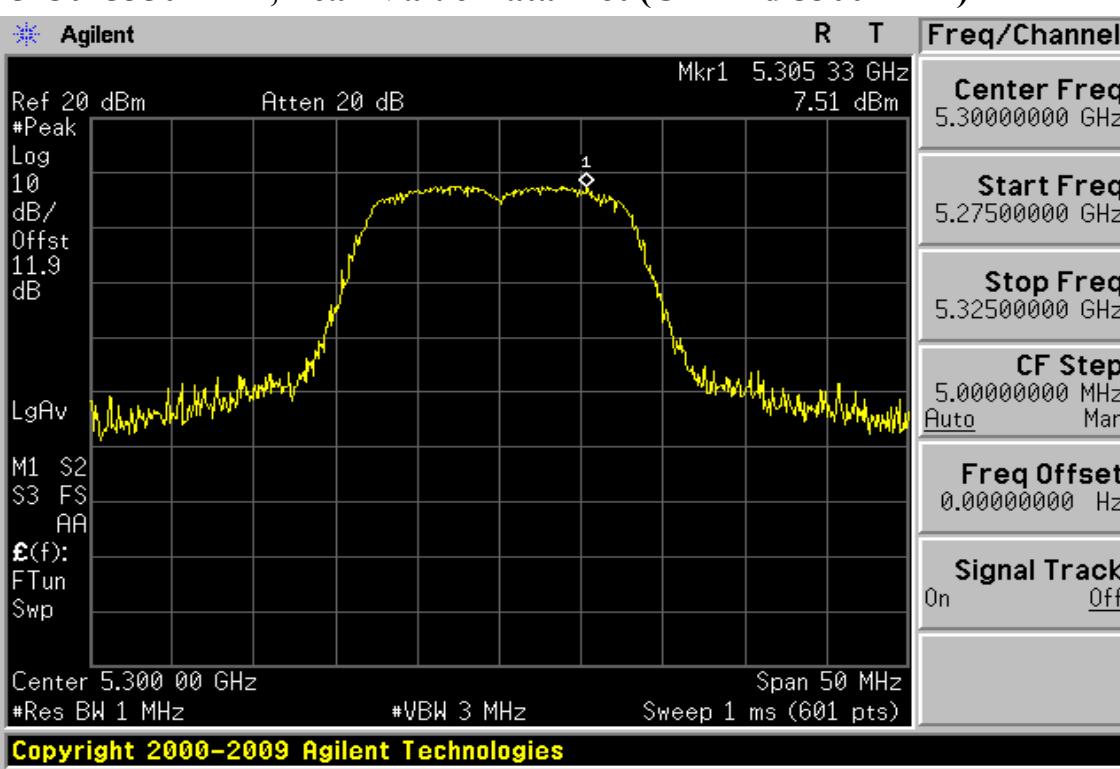
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Modulation Type: BPSK, Coding Rate: 1/2
 802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)


802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)

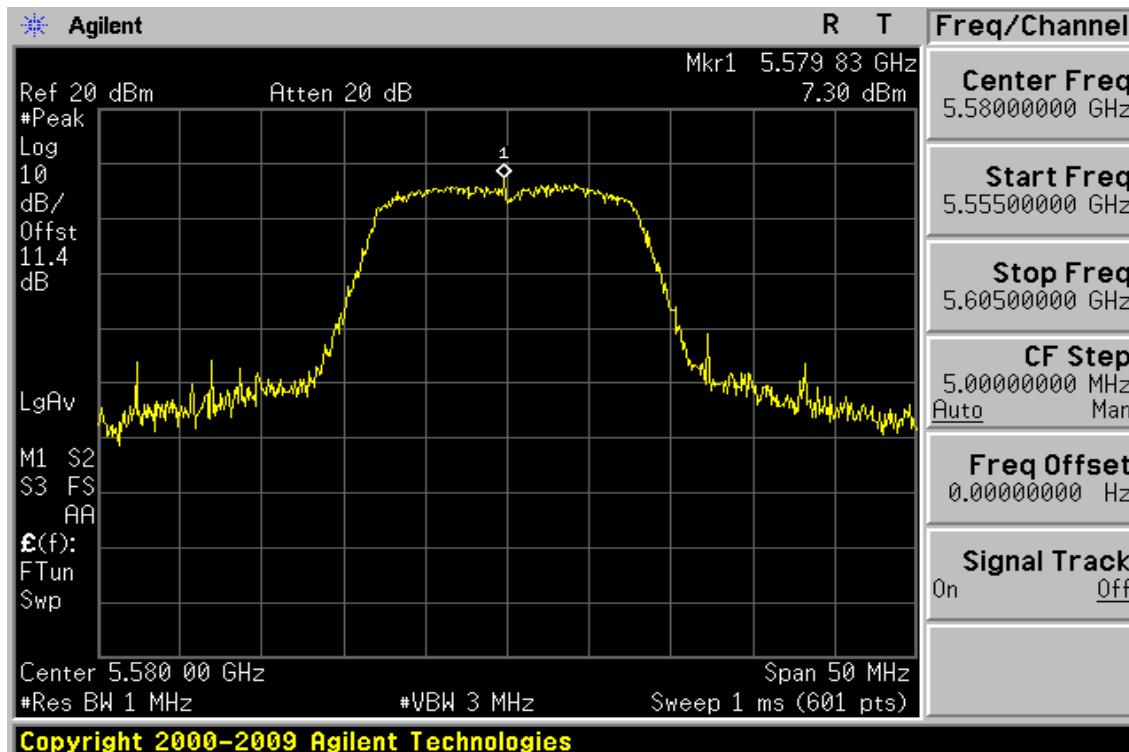


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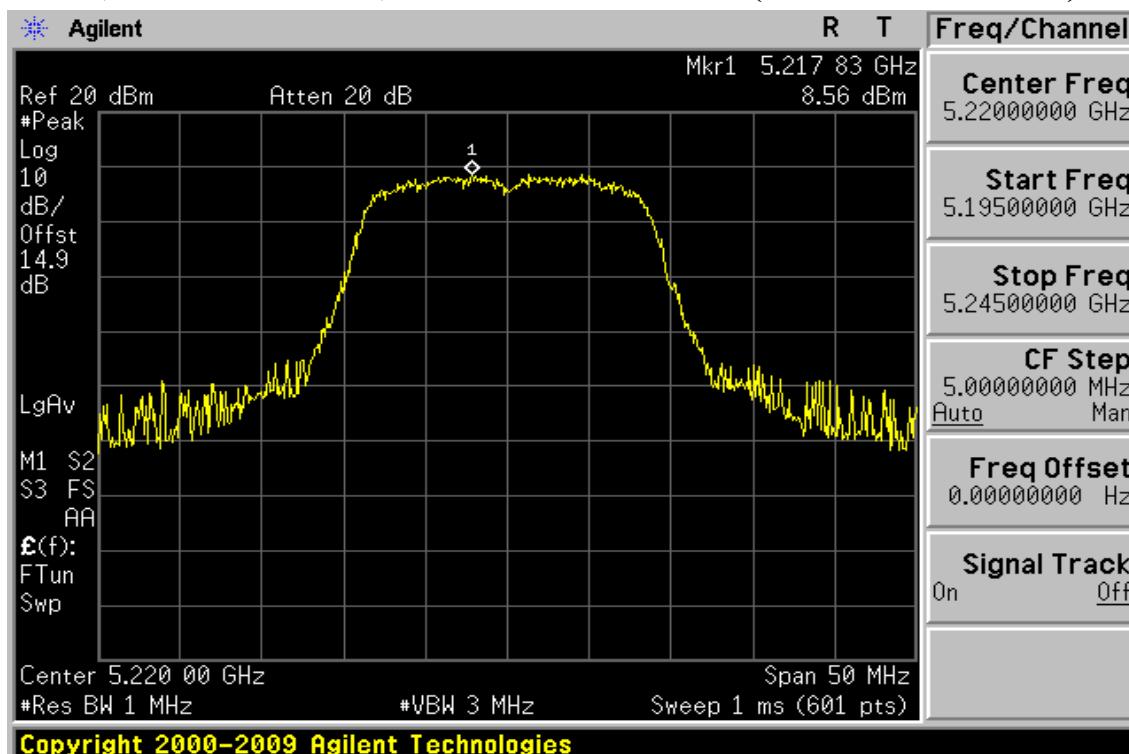
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)

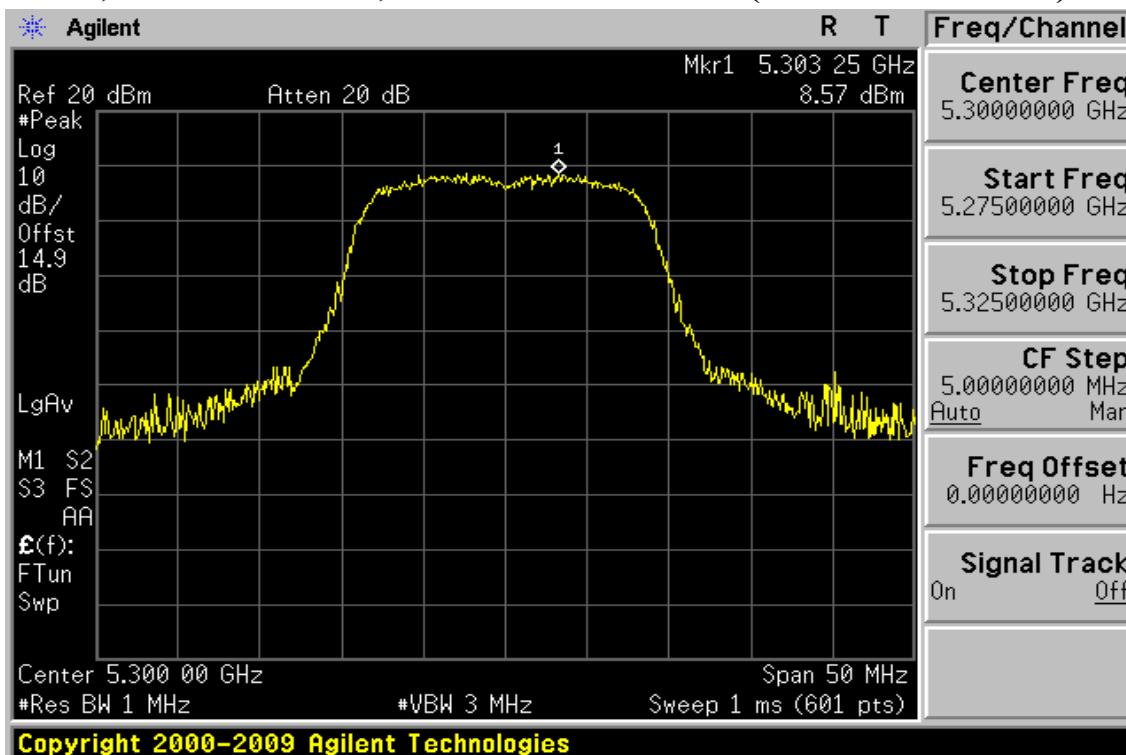


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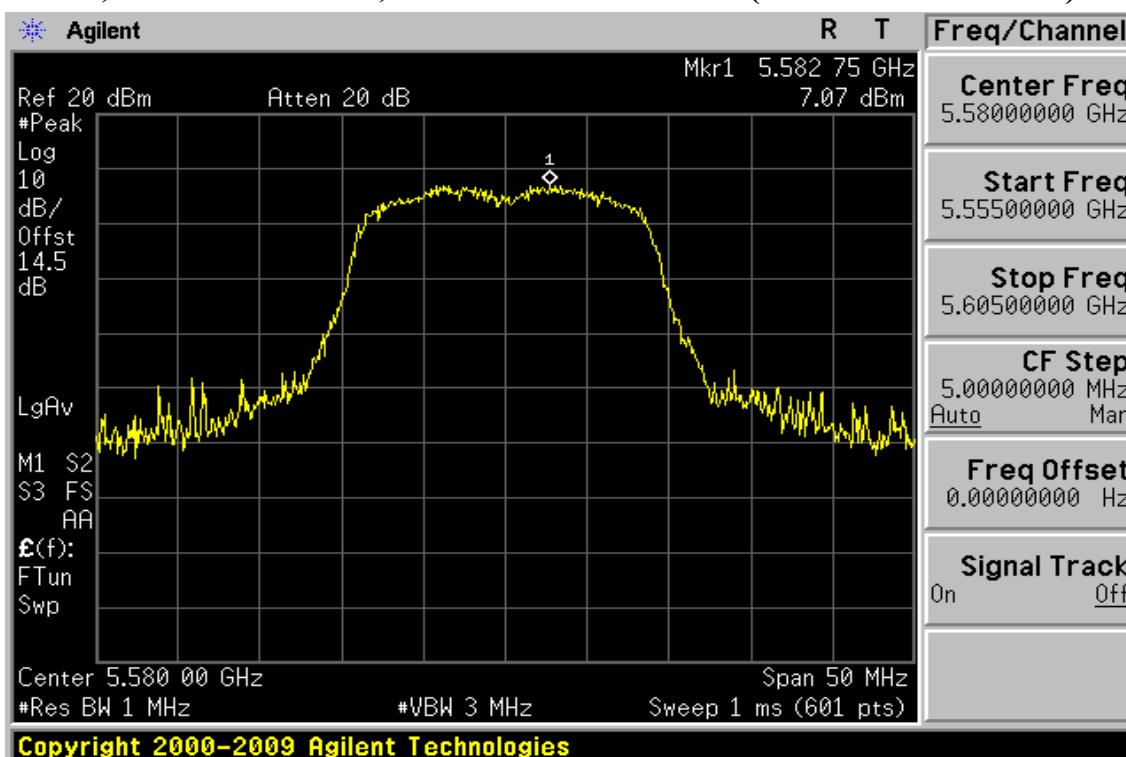
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)

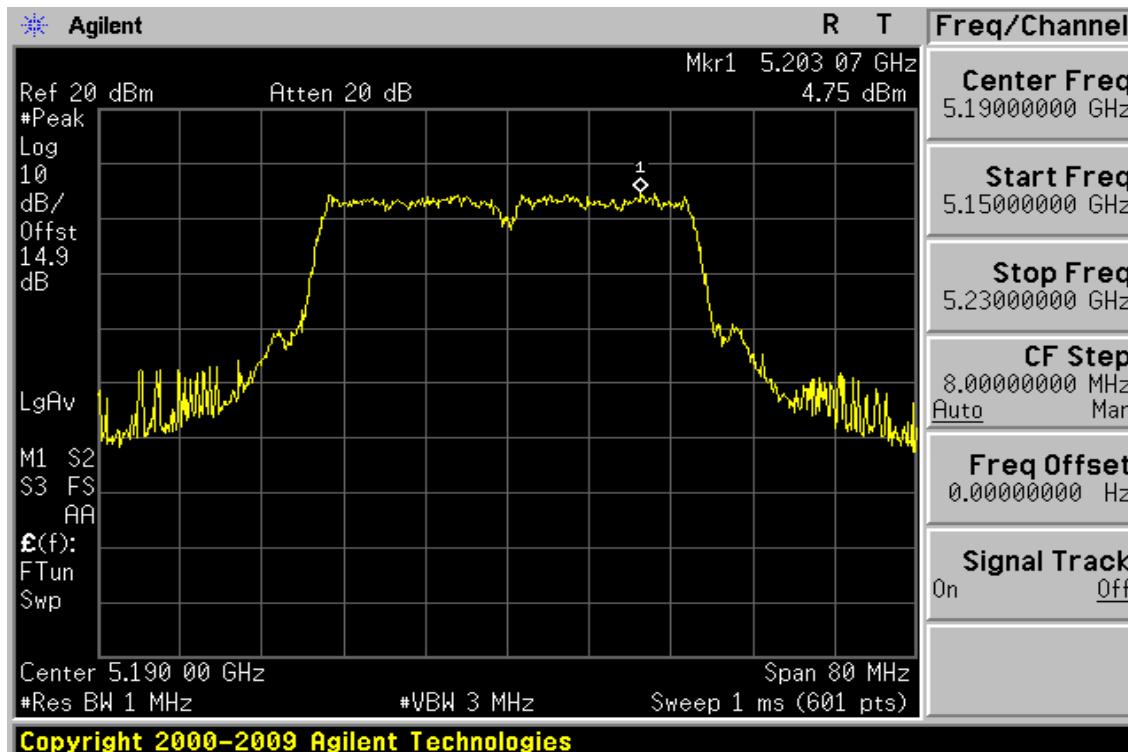


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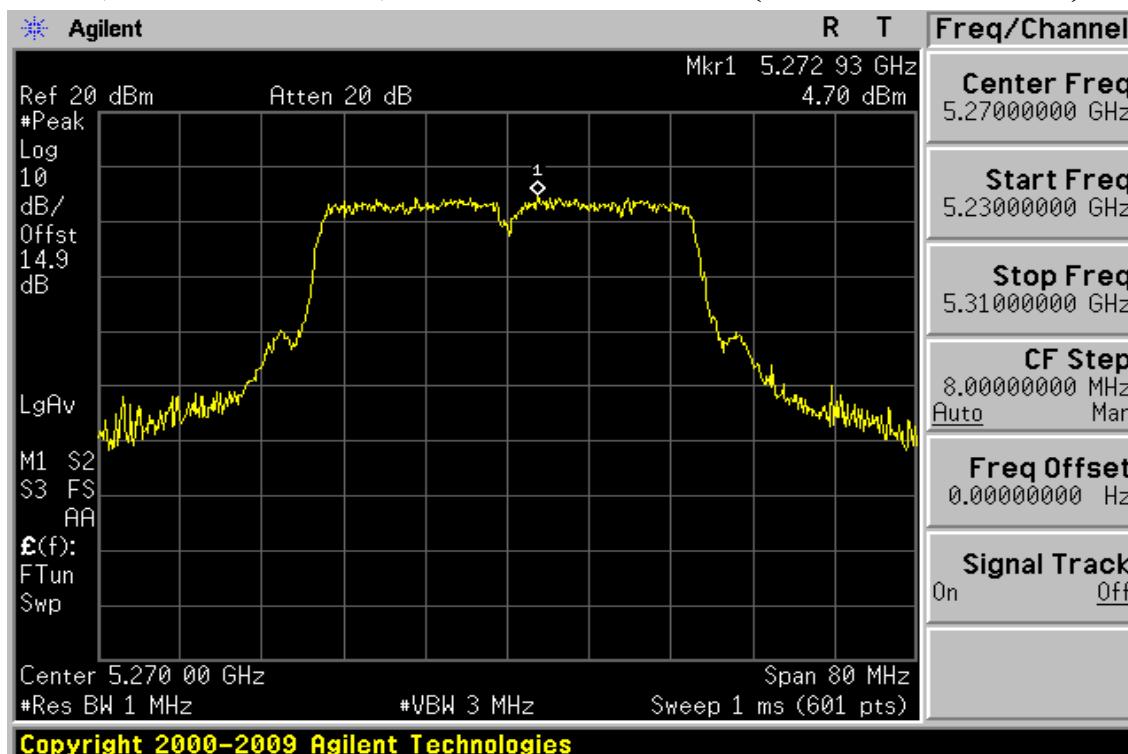
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



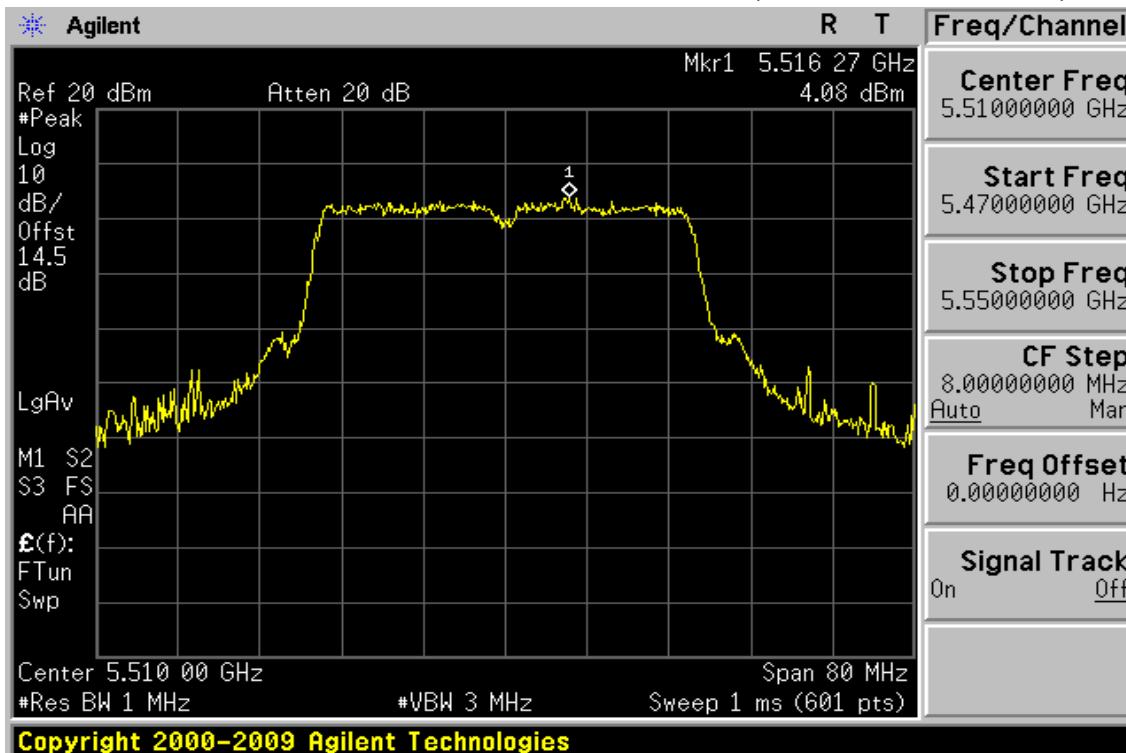
802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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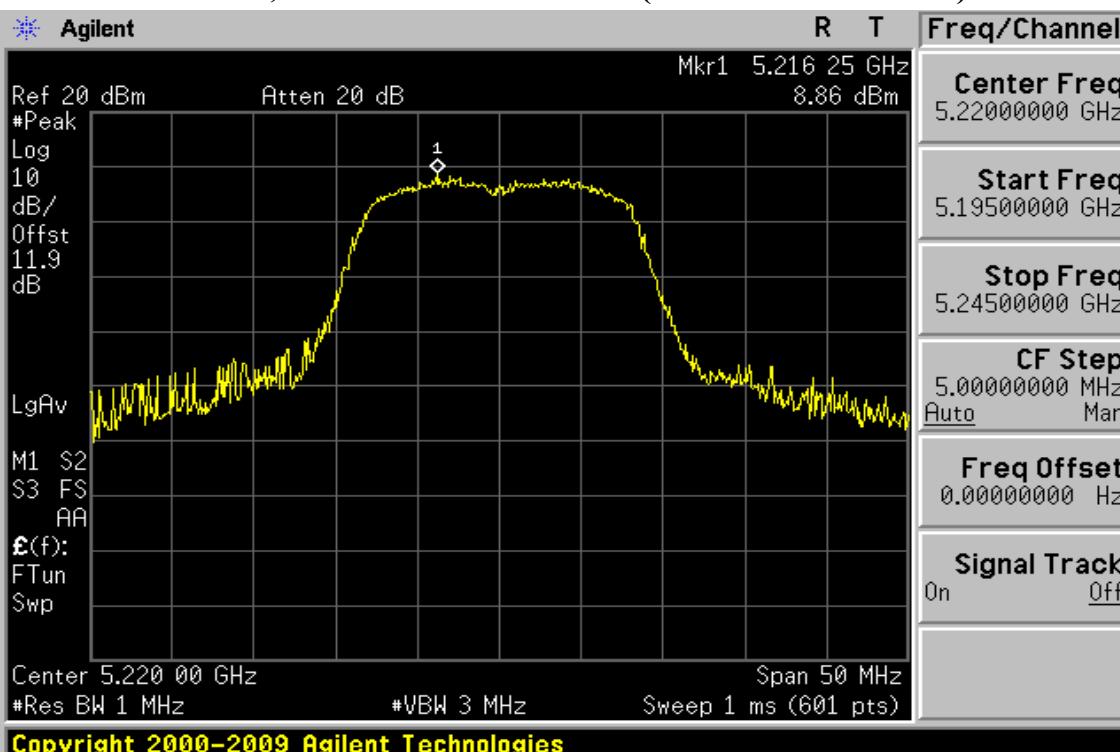
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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

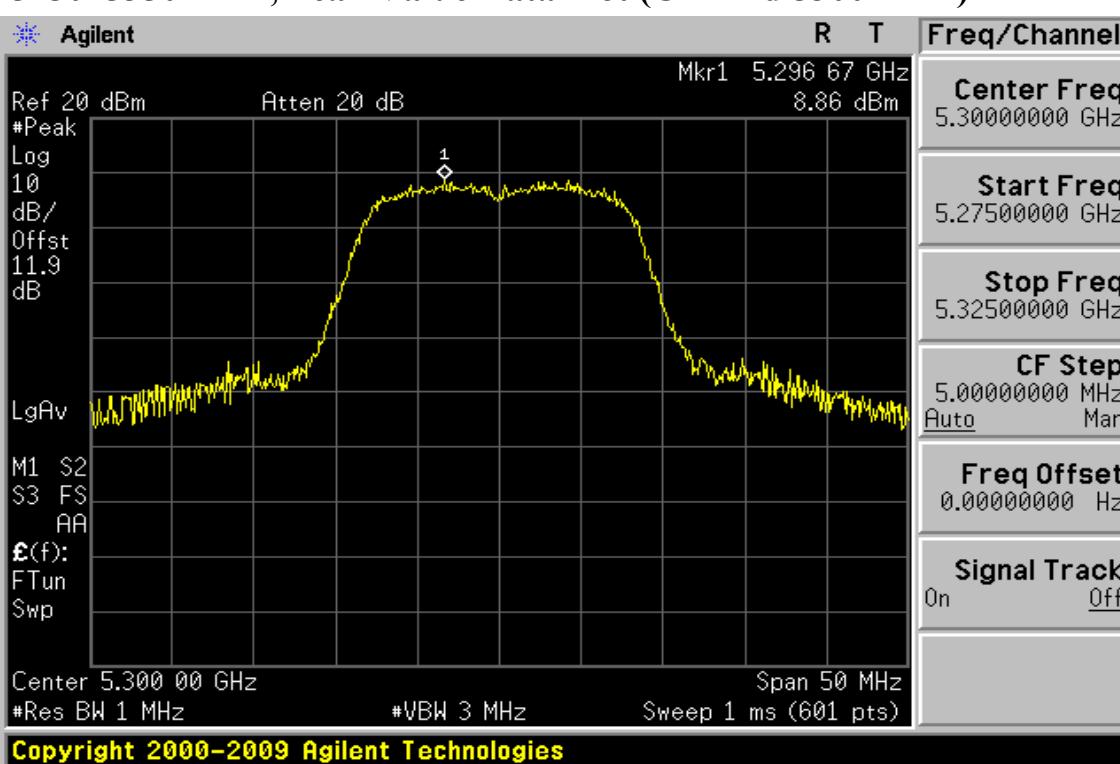
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Modulation Type: QPSK, Coding Rate: 1/2
 802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)


802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)

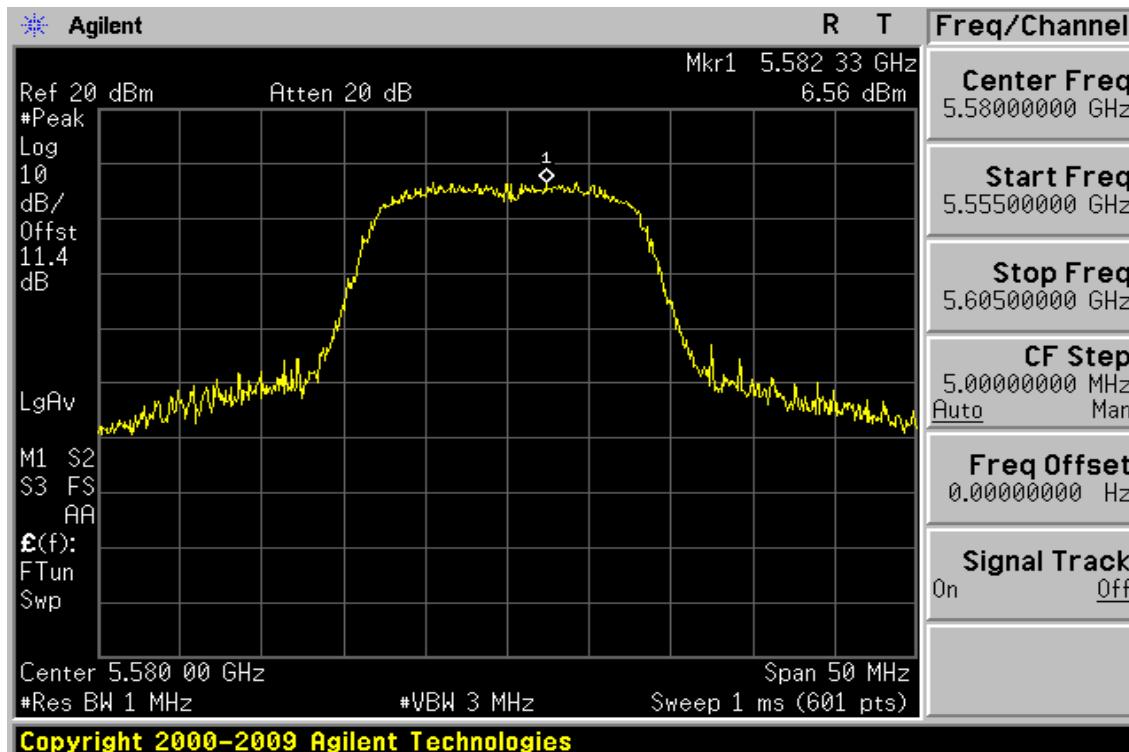


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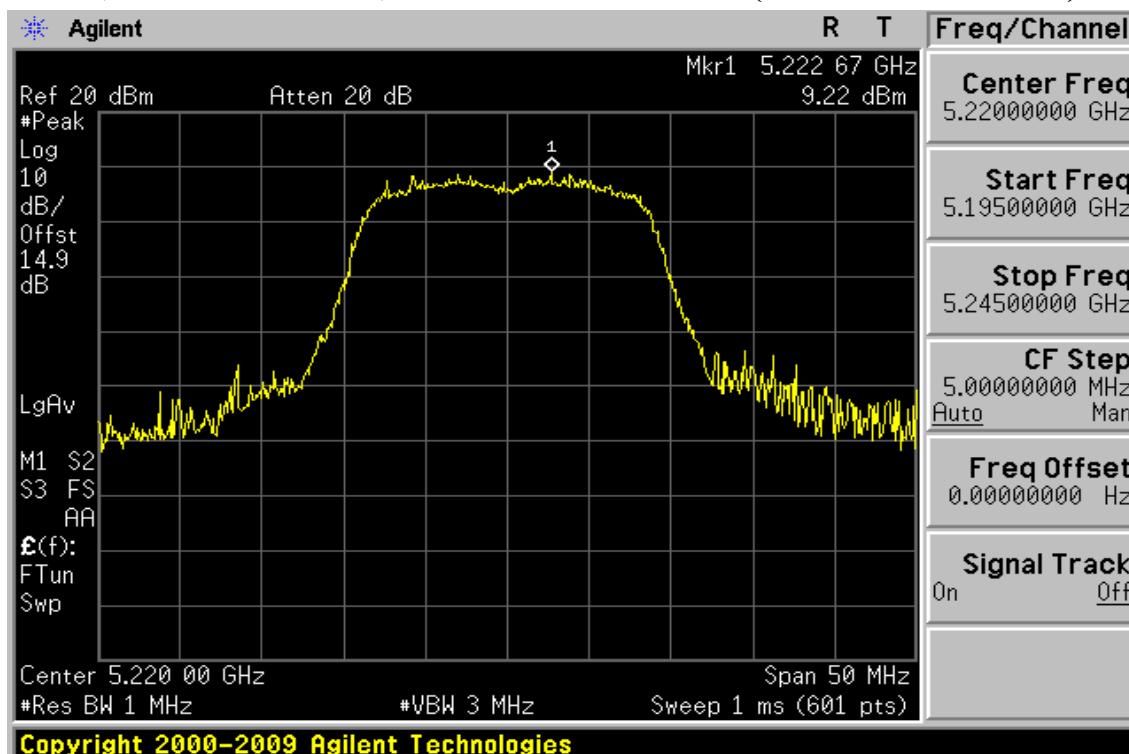
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)

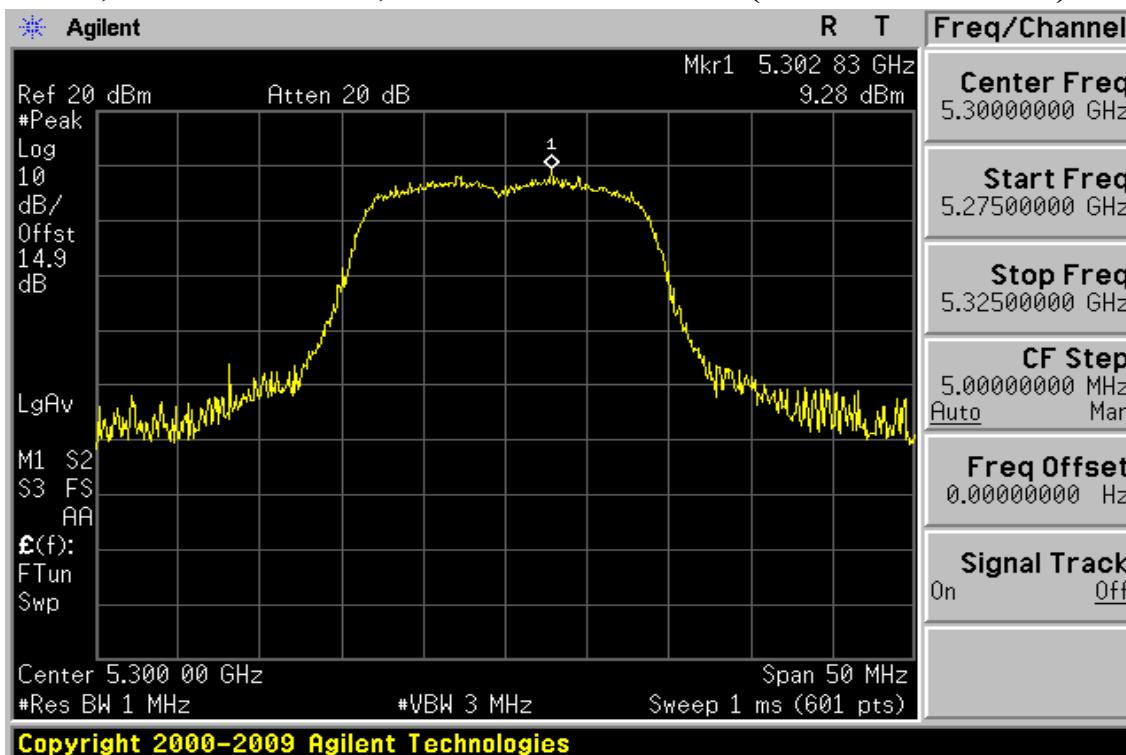


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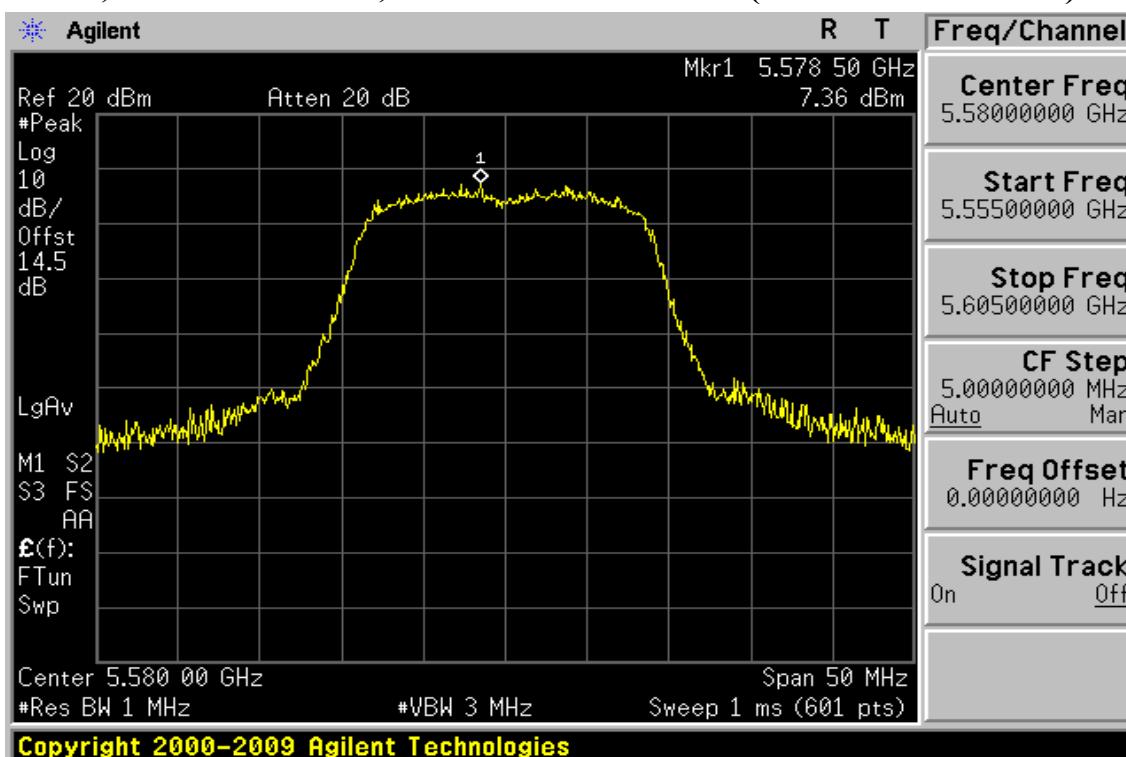
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)

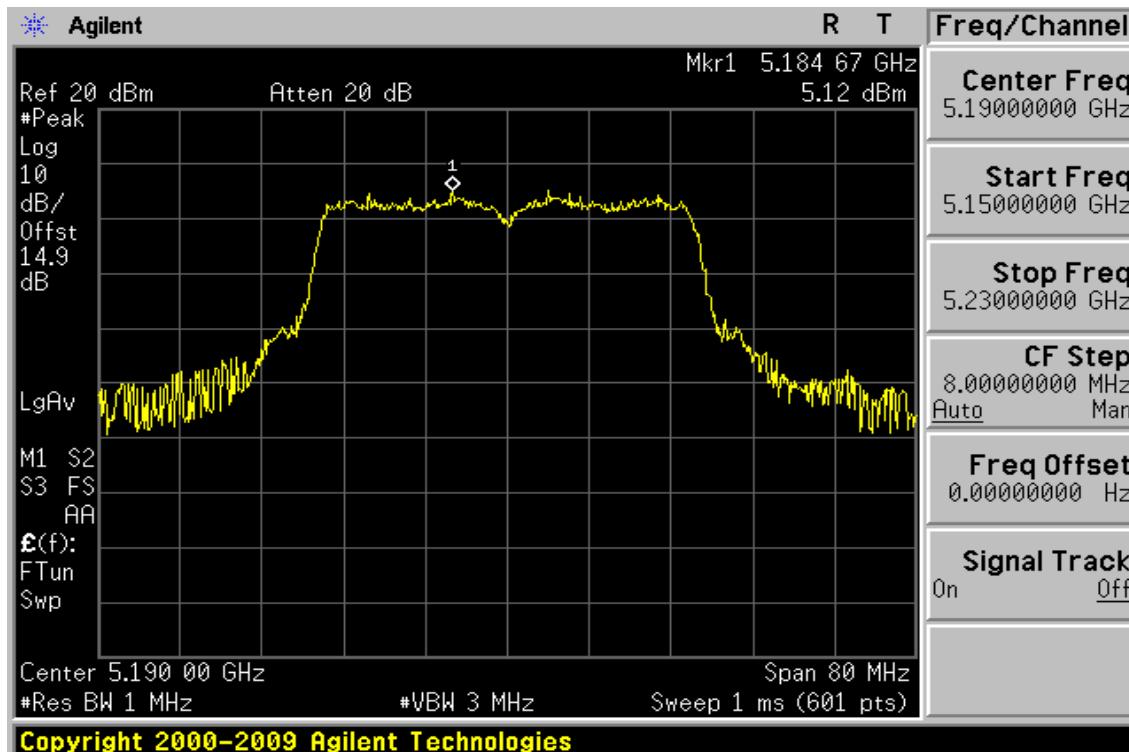


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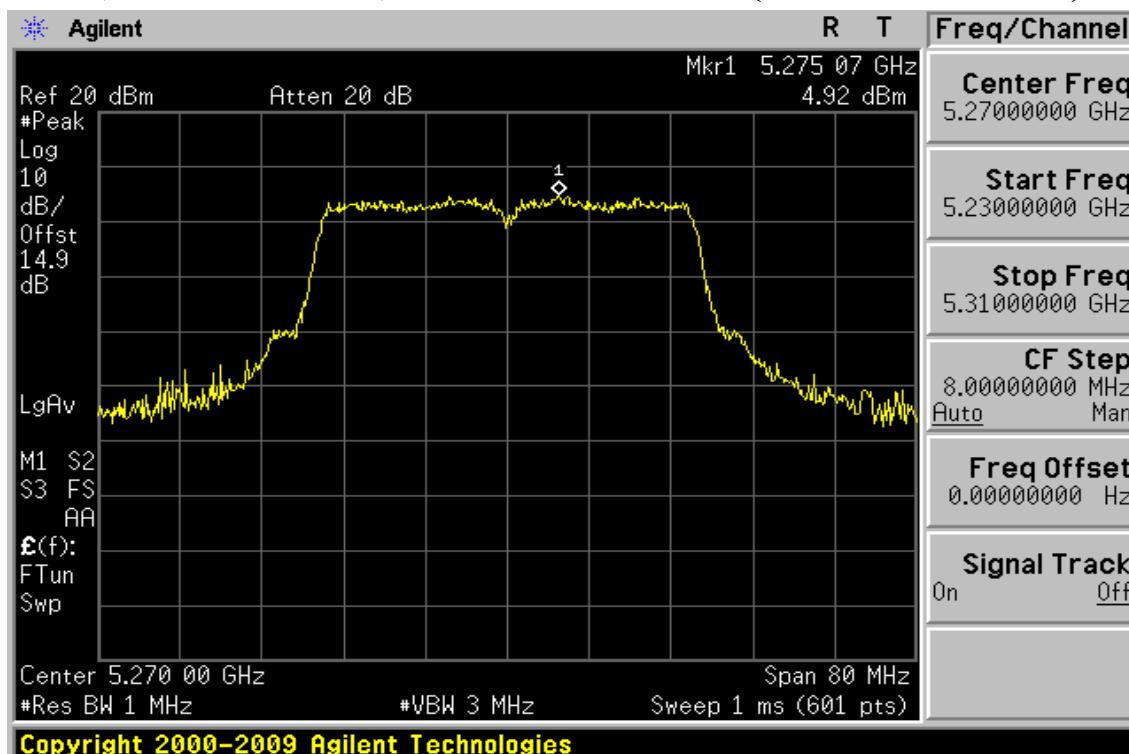
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



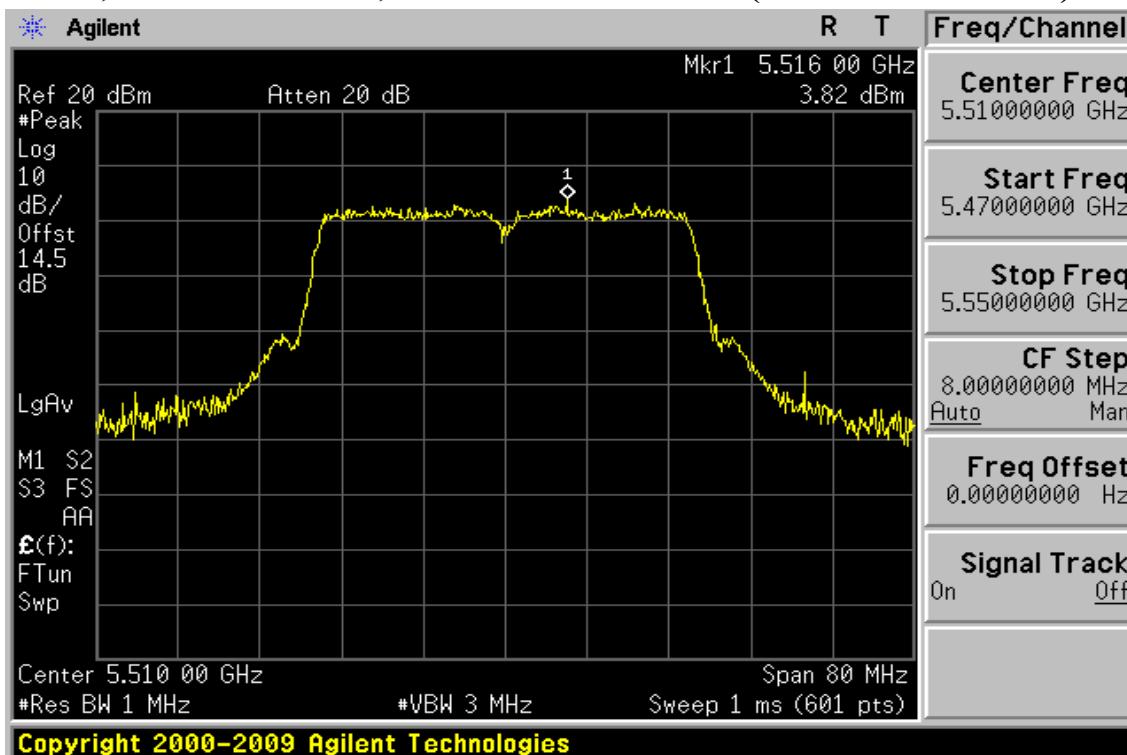
802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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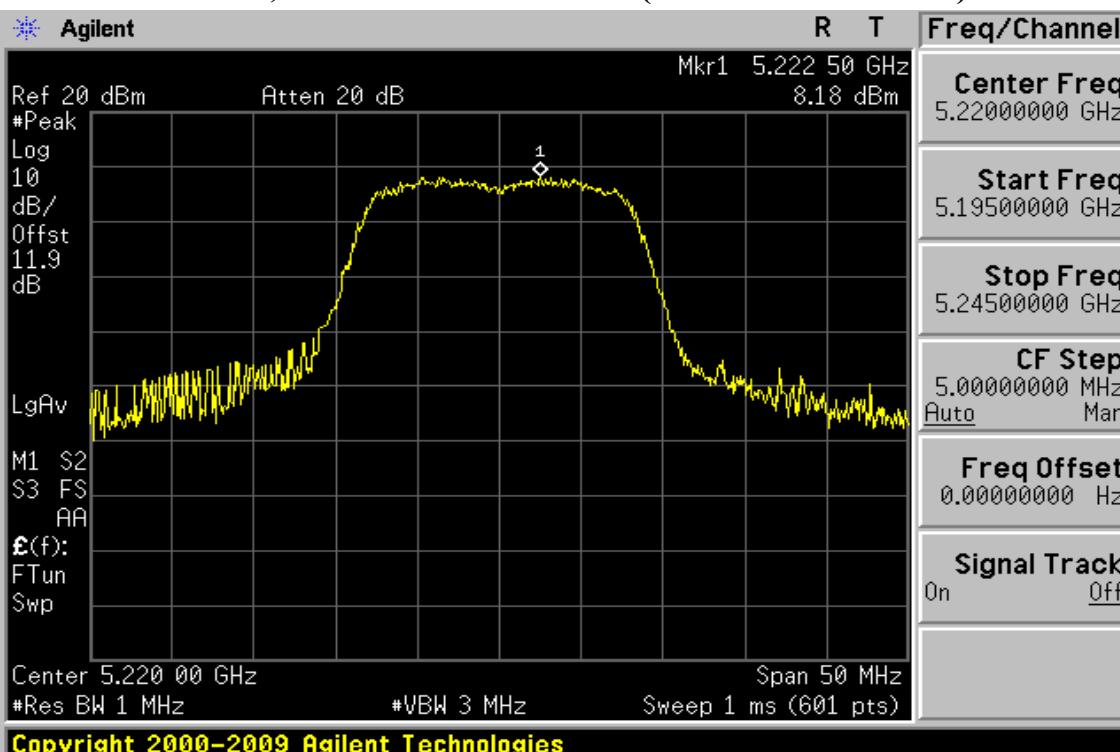
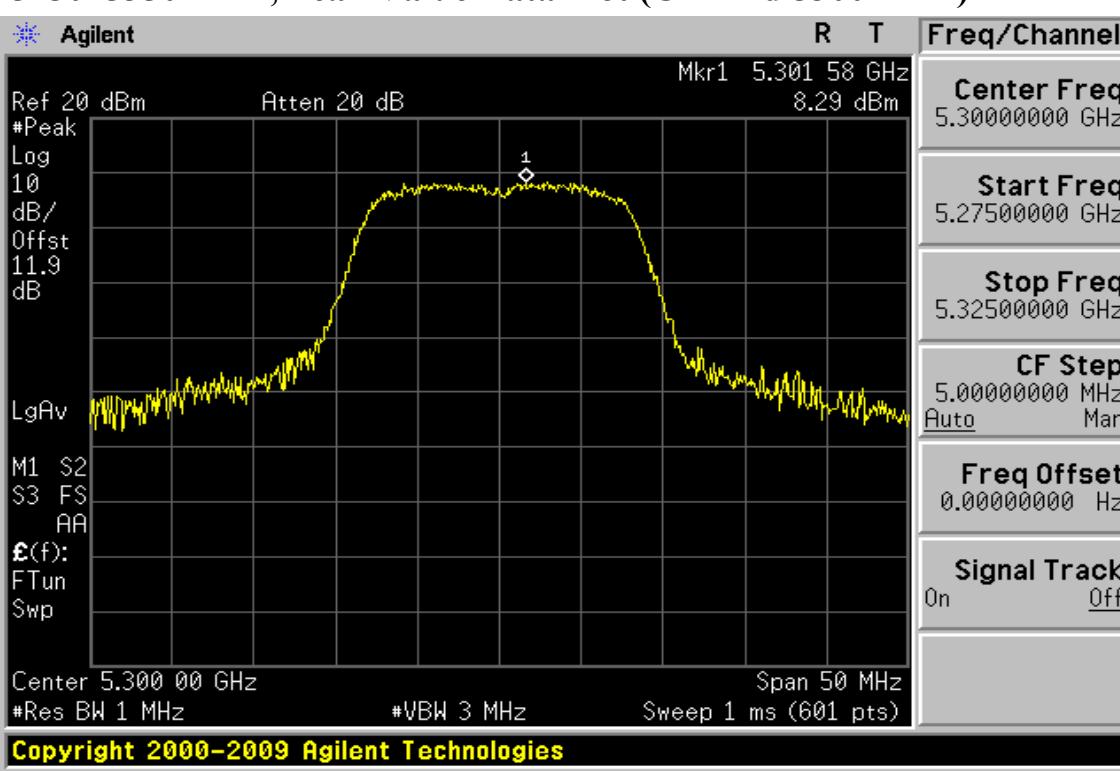
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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

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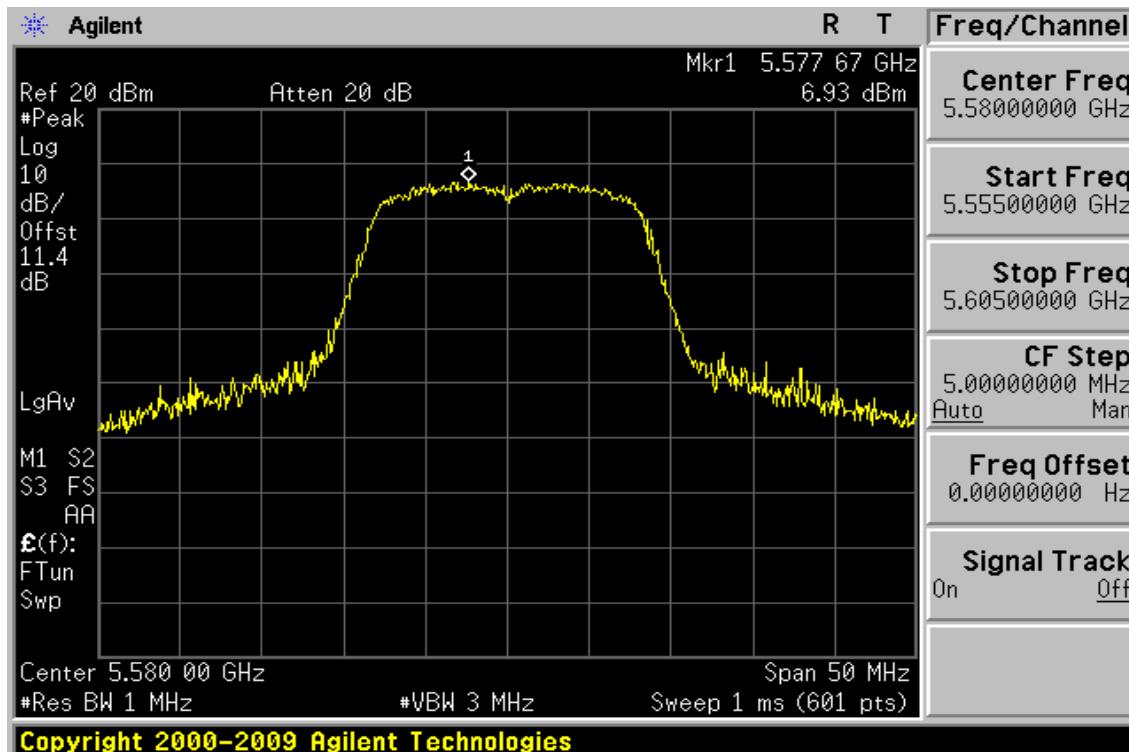
Modulation Type: 16-QAM, Coding Rate: 1/2
802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)

802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)


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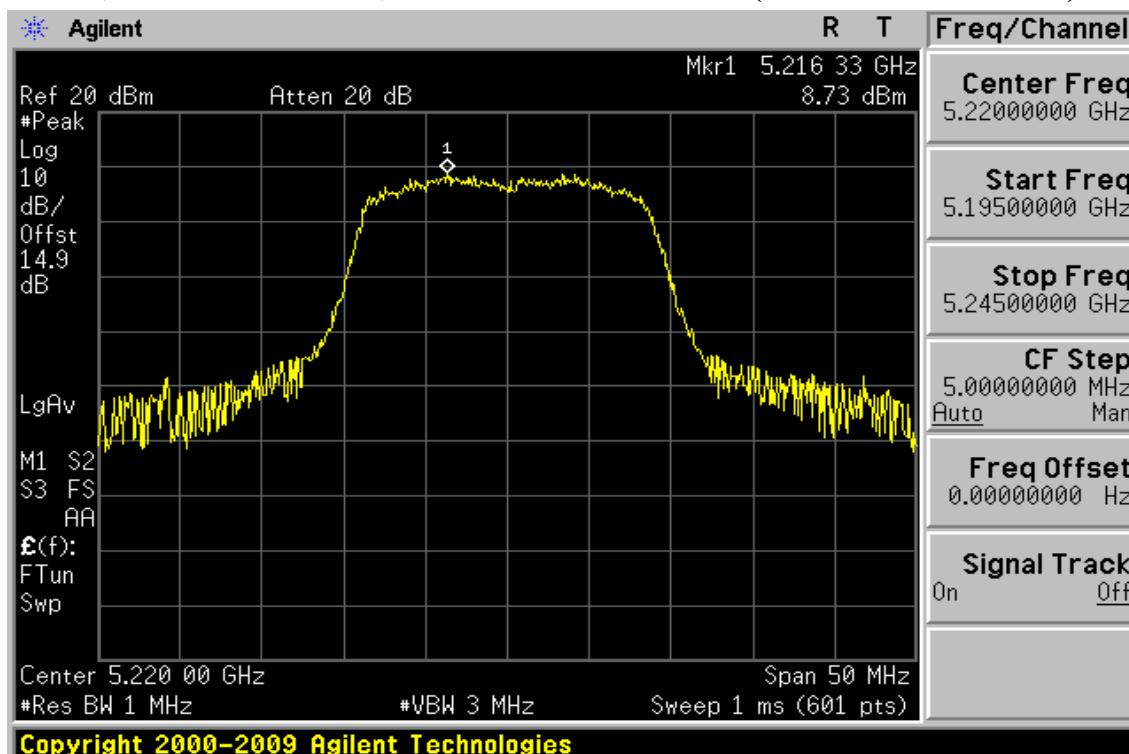
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)

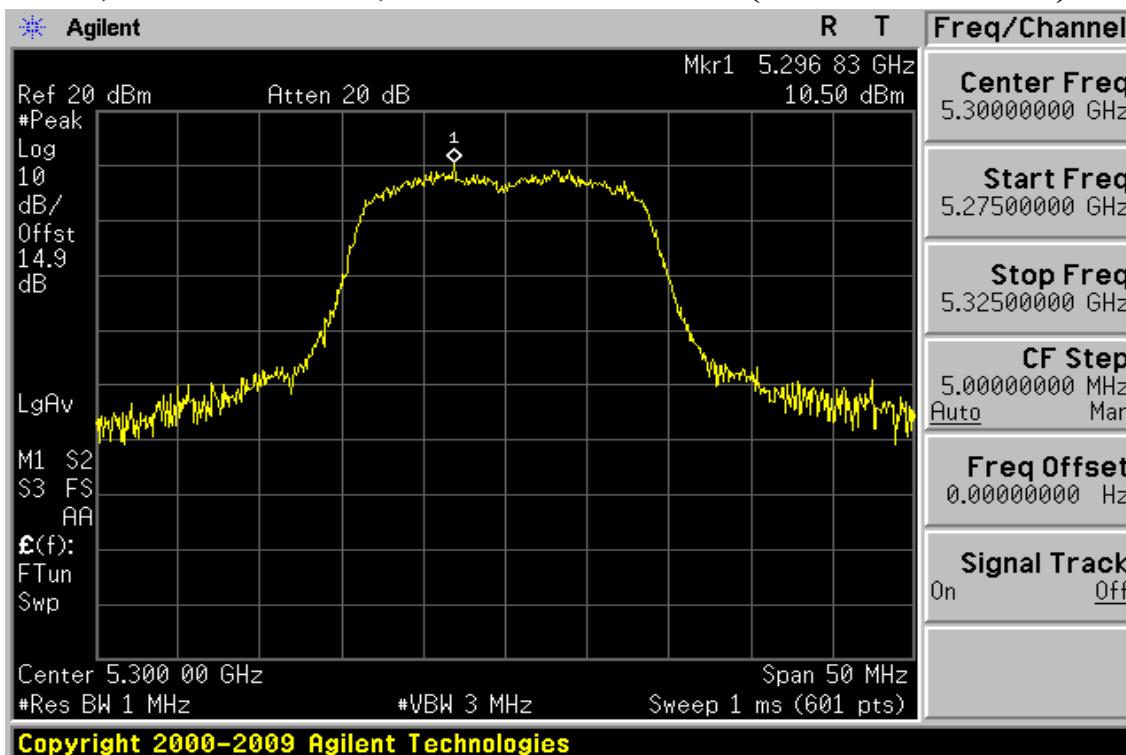


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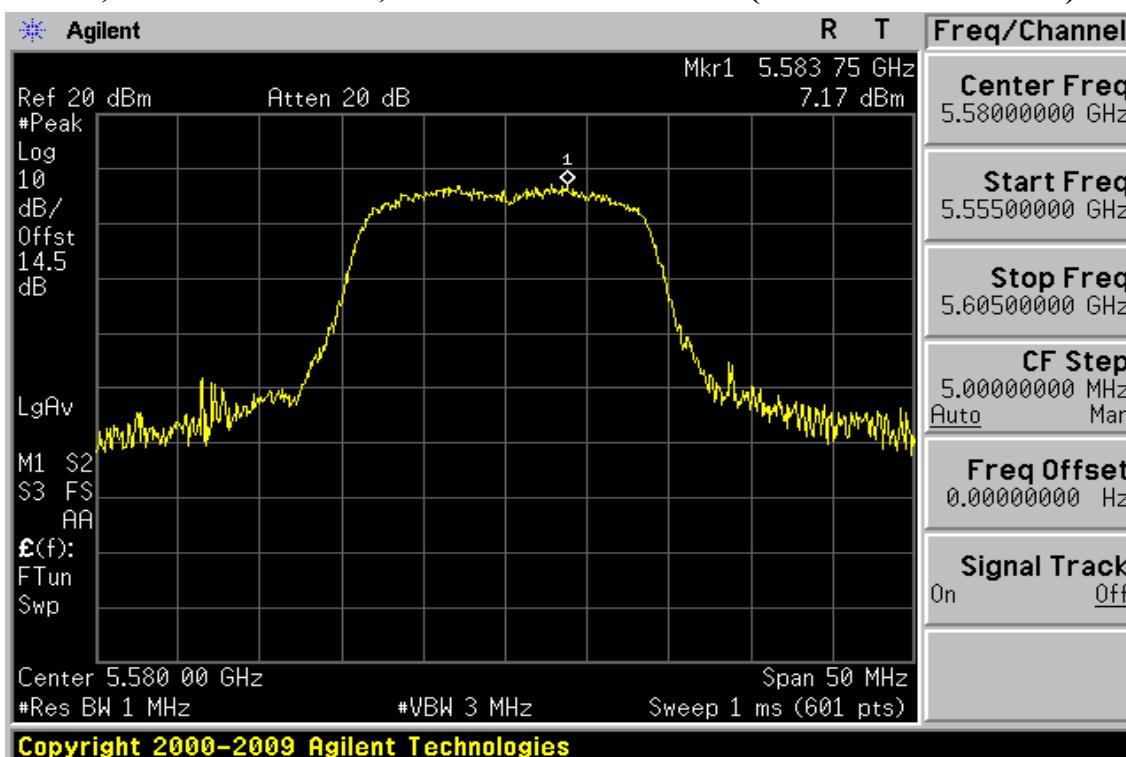
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)

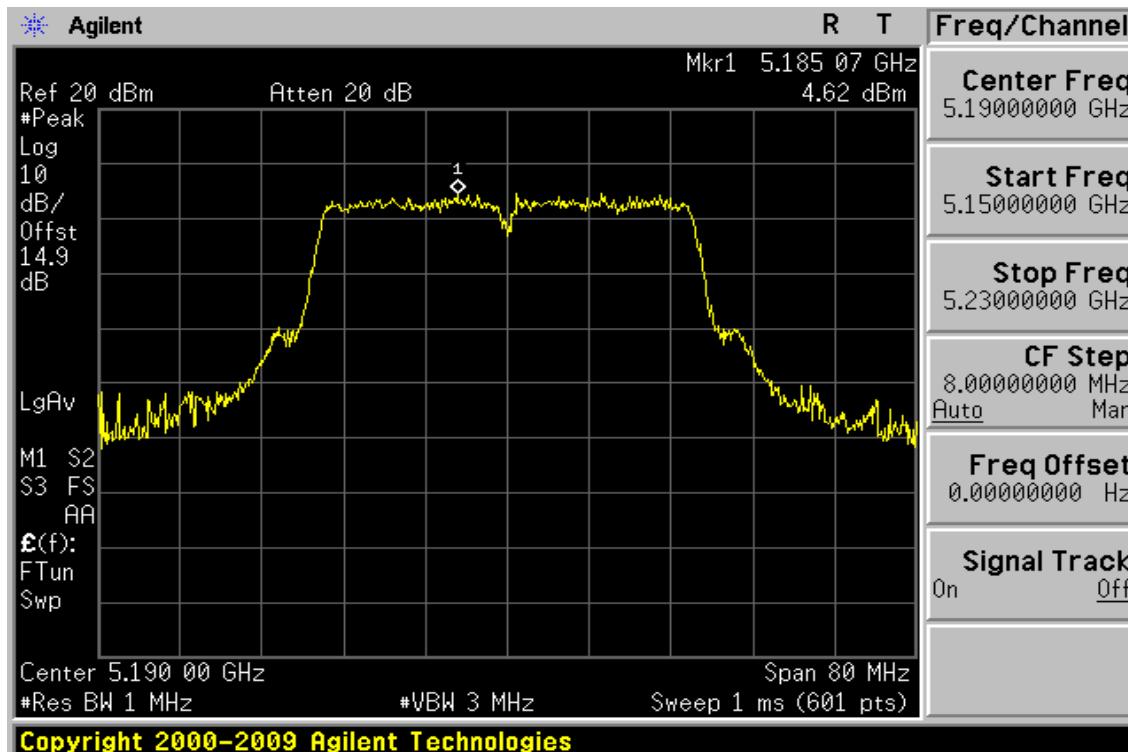


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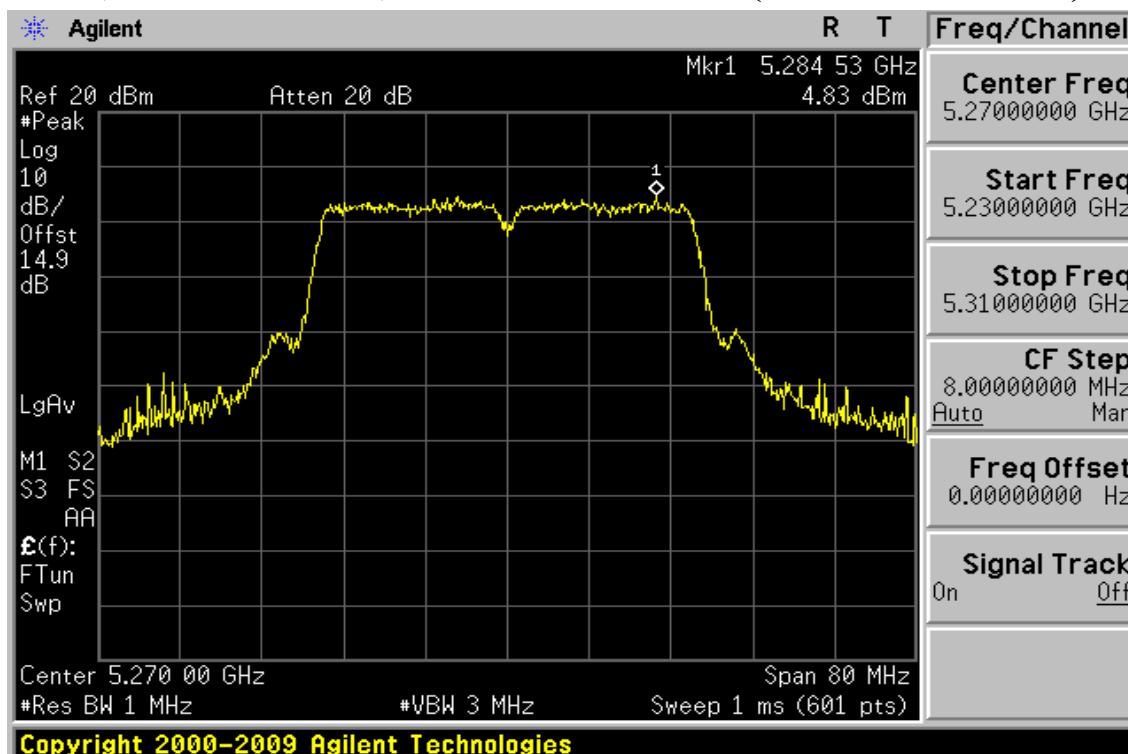
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



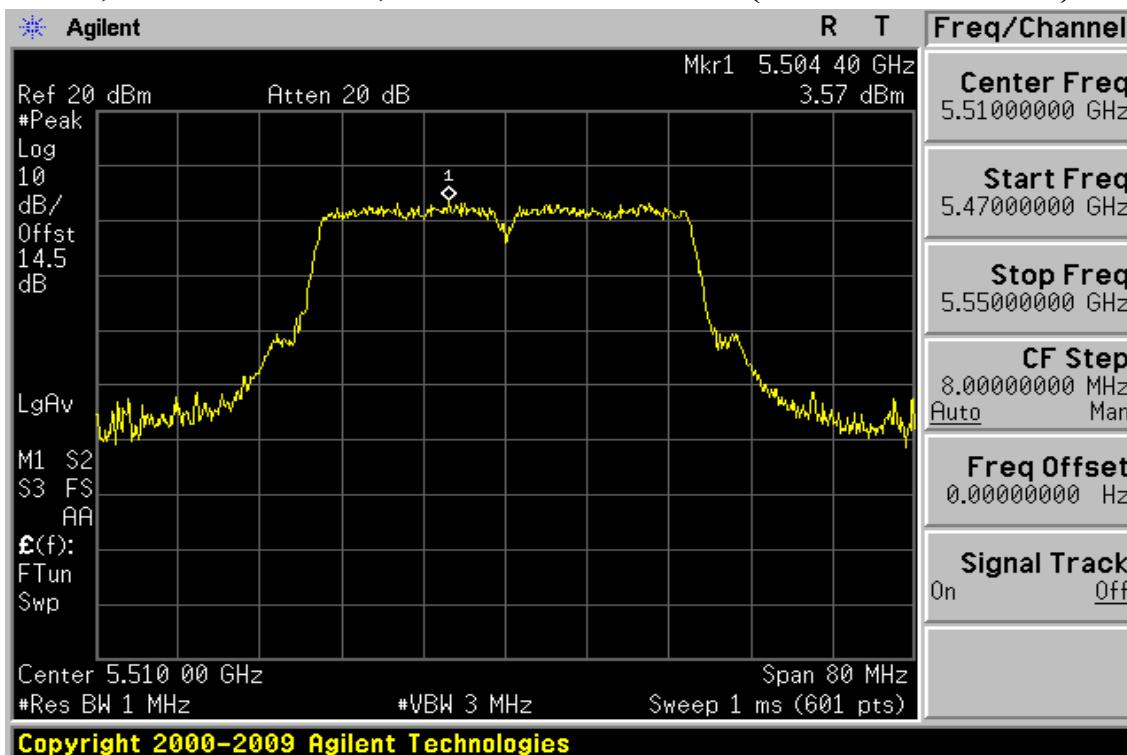
802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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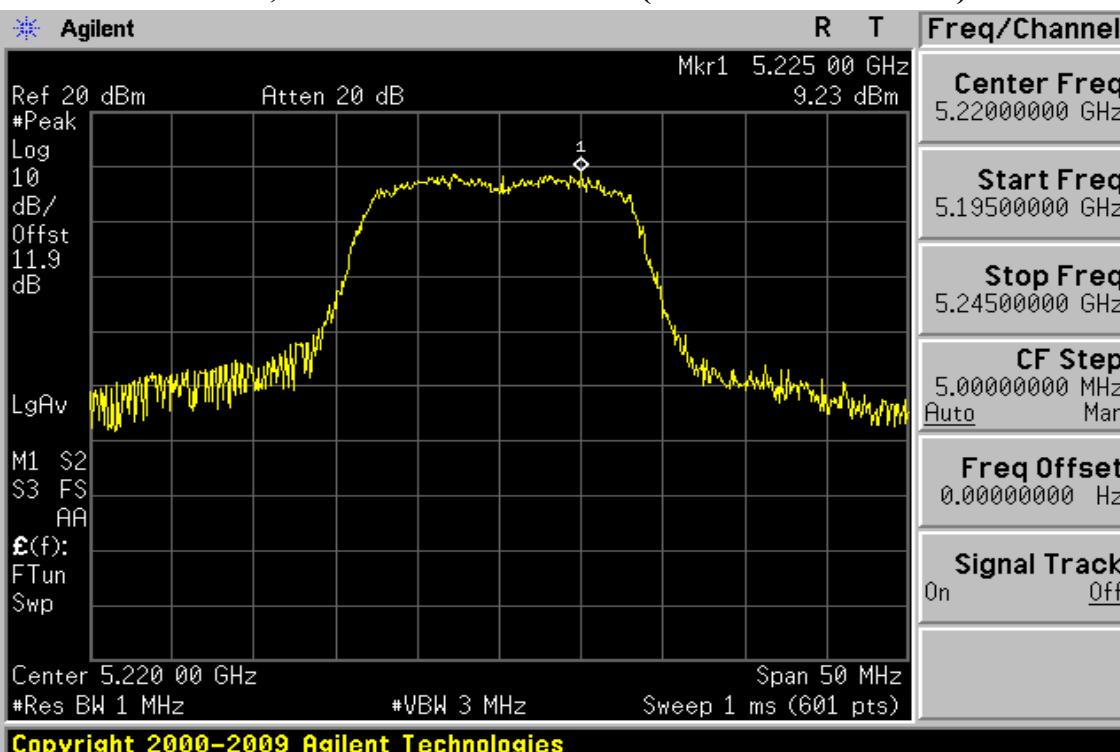
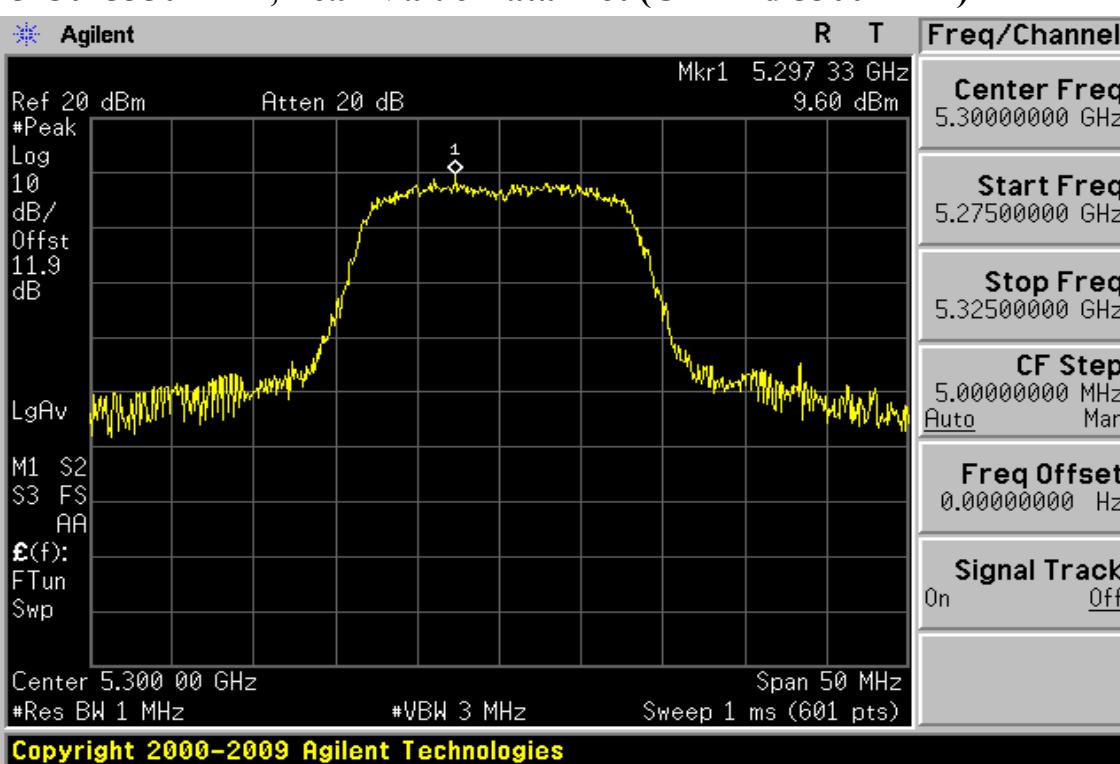
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802.11n HT40, 5470~5725 MHz, Peak Value Data Plot (CH Low 5510MHz)

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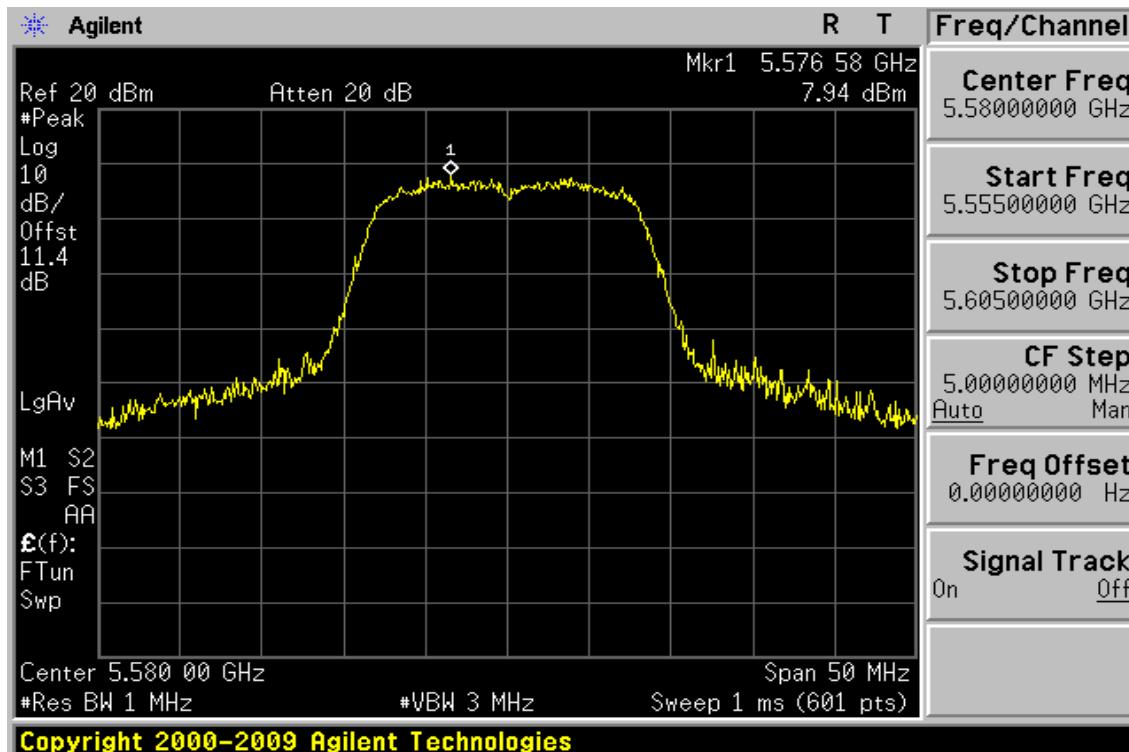
**Modulation Type: 64-QAM, Coding Rate: 2/3
802.11a, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)****802.11a, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300 MHz)**

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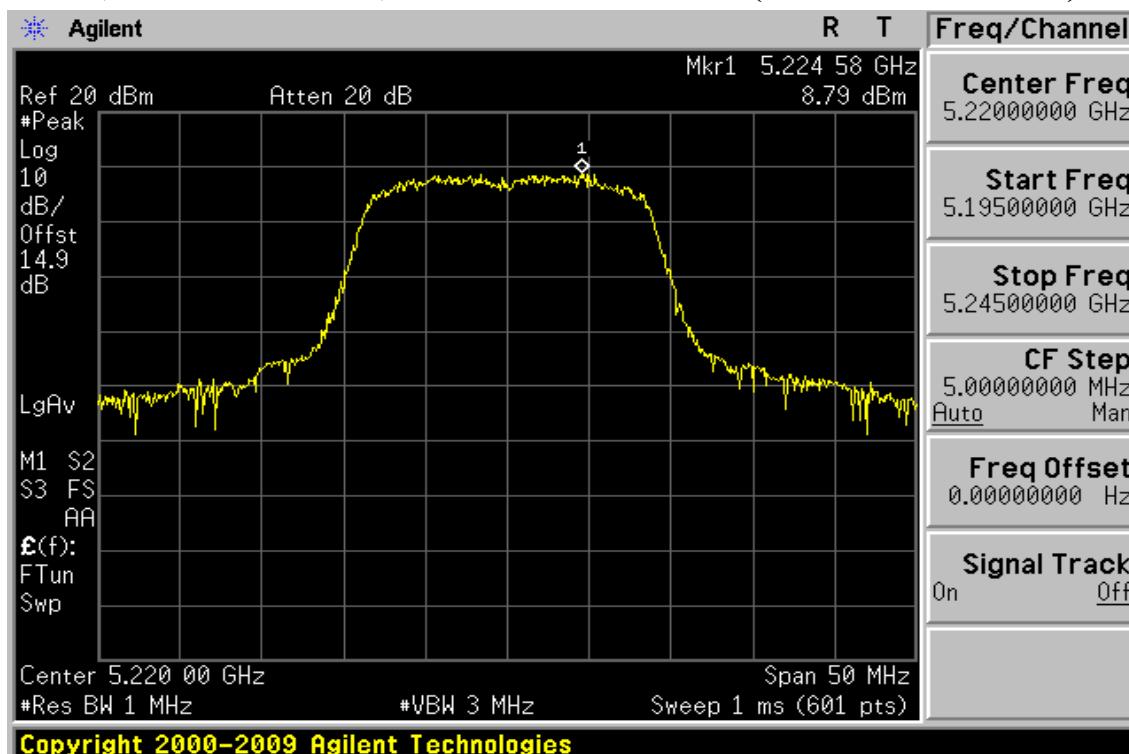
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802.11a, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, Peak Value Data Plot (CH Mid 5220 MHz)

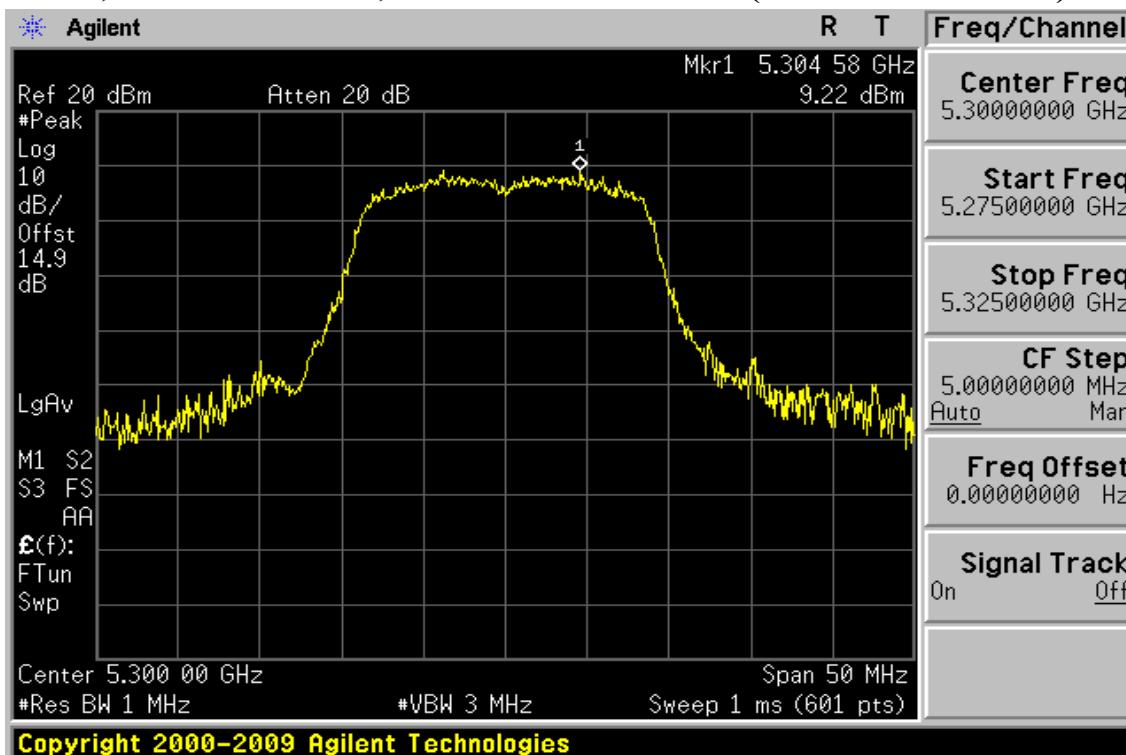


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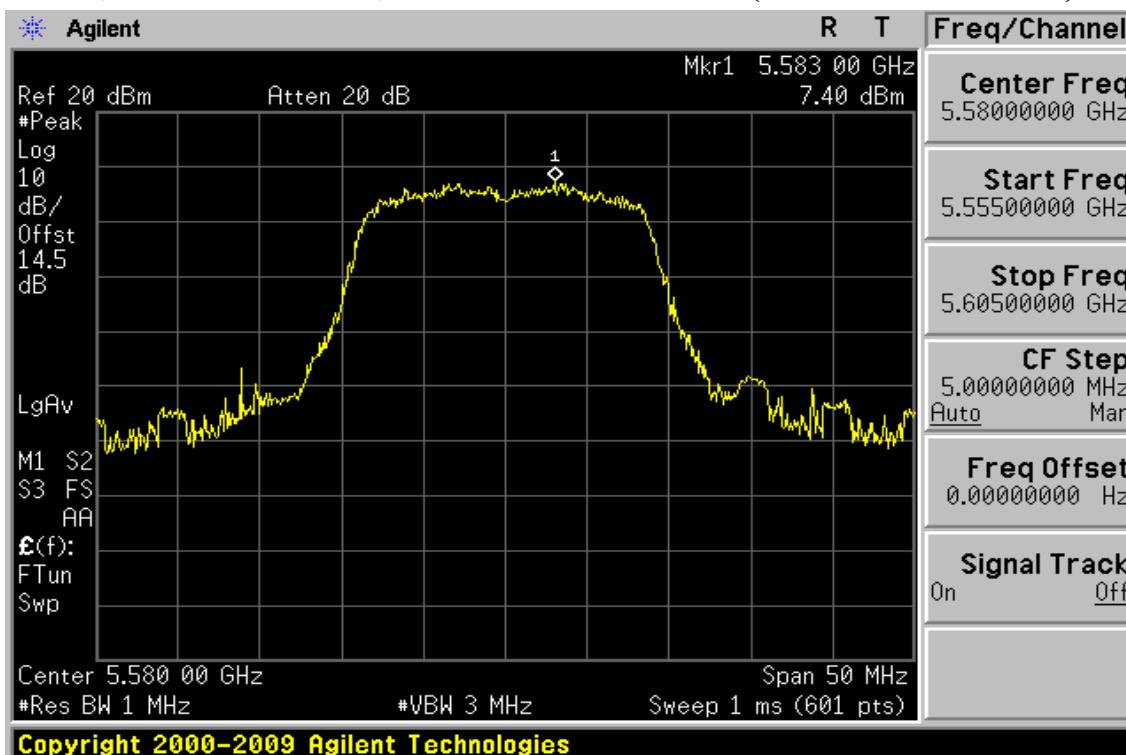
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802.11n HT20, 5250~5350 MHz, Peak Value Data Plot (CH Mid 5300MHz)



802.11n HT20, 5470~5725 MHz, Peak Value Data Plot (CH Mid 5580 MHz)

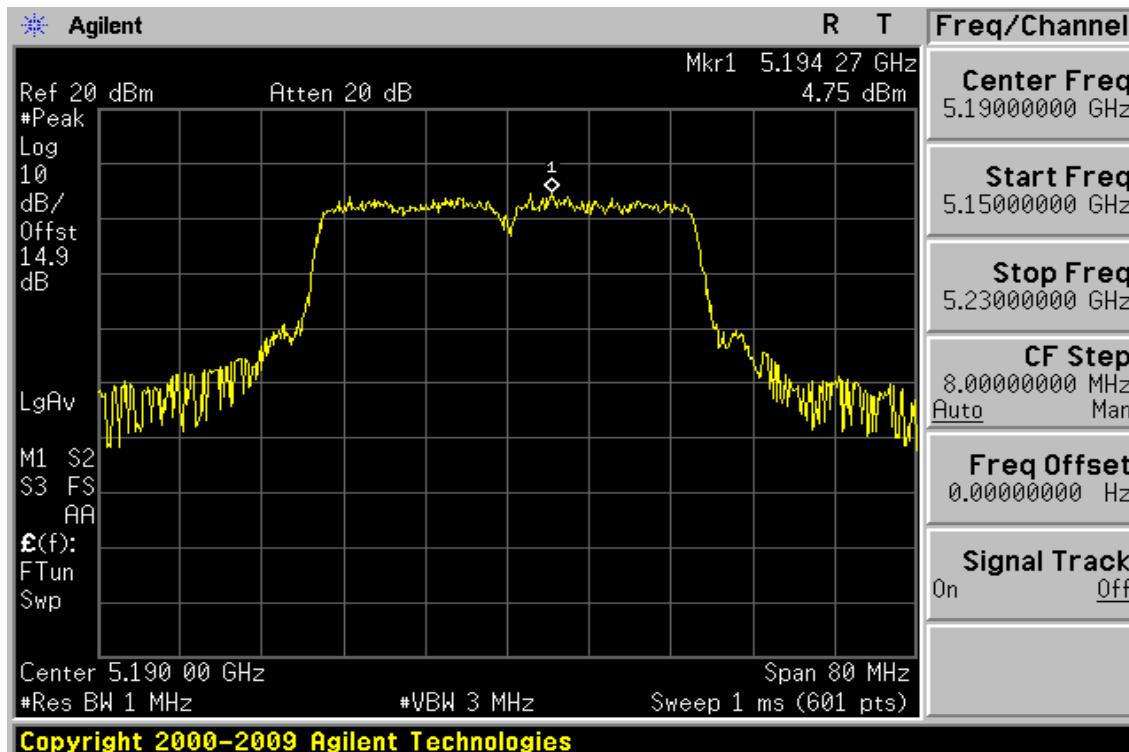


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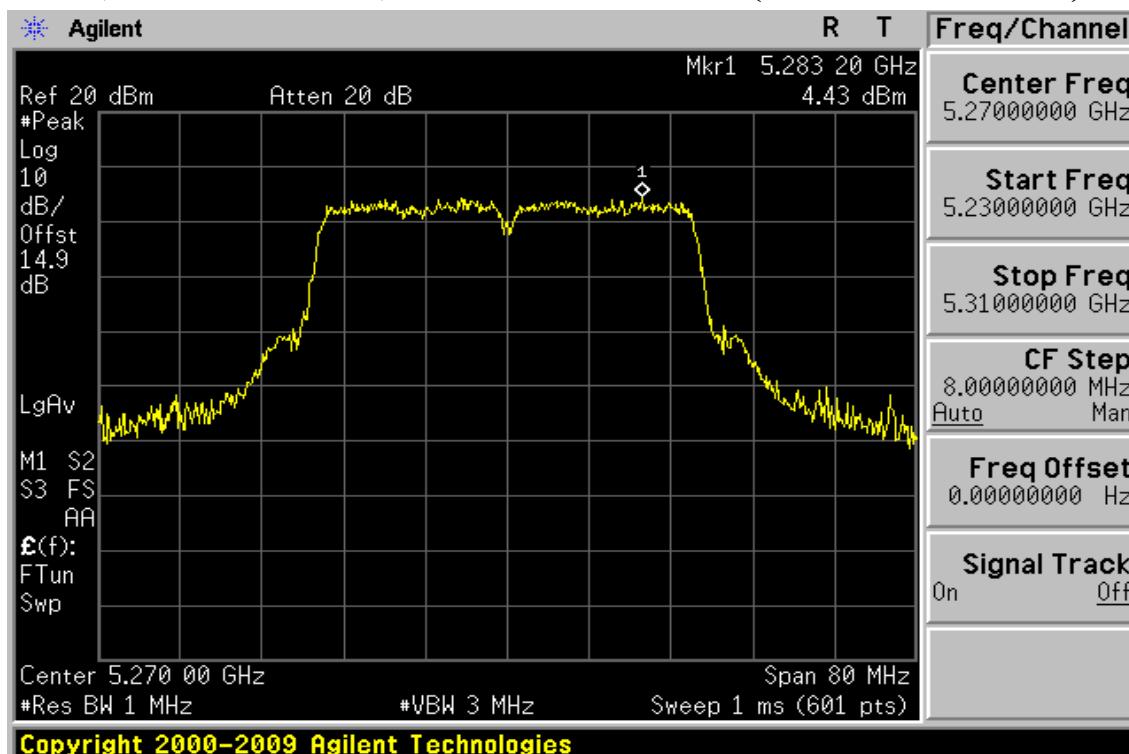
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802.11n HT40, 5150~5250 MHz, Peak Value Data Plot (CH Low 5190 MHz)



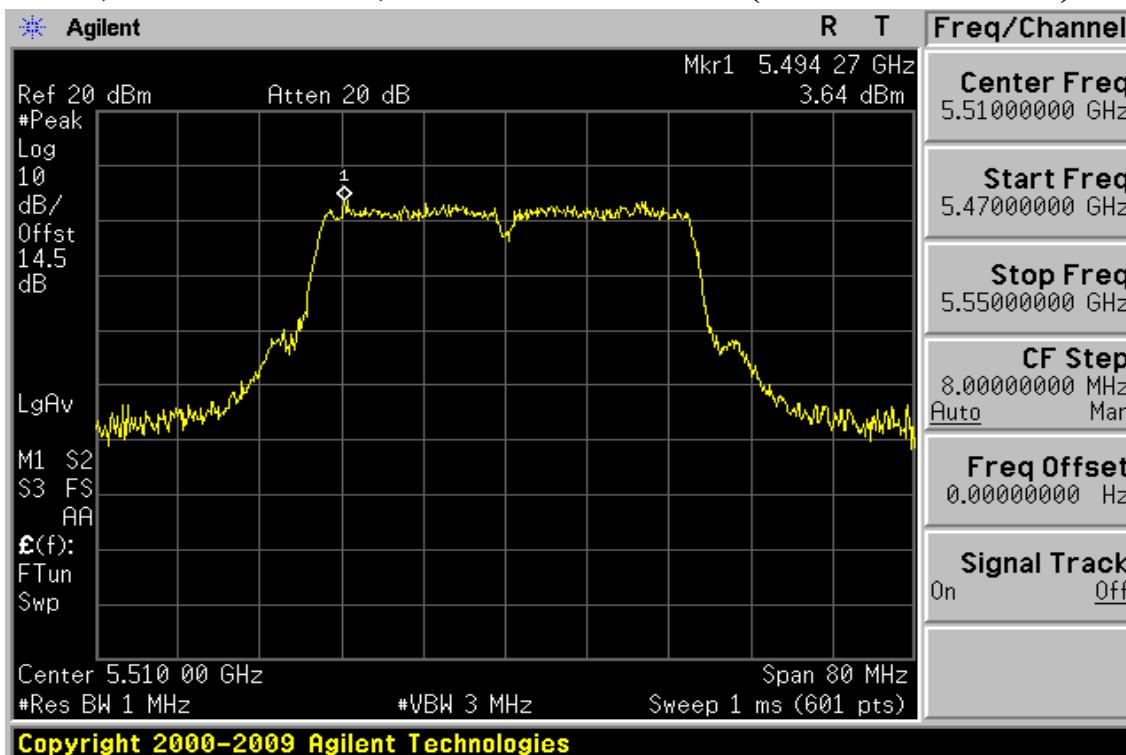
802.11n HT40, 5250~5350 MHz, Peak Value Data Plot (CH Low 5270 MHz)



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

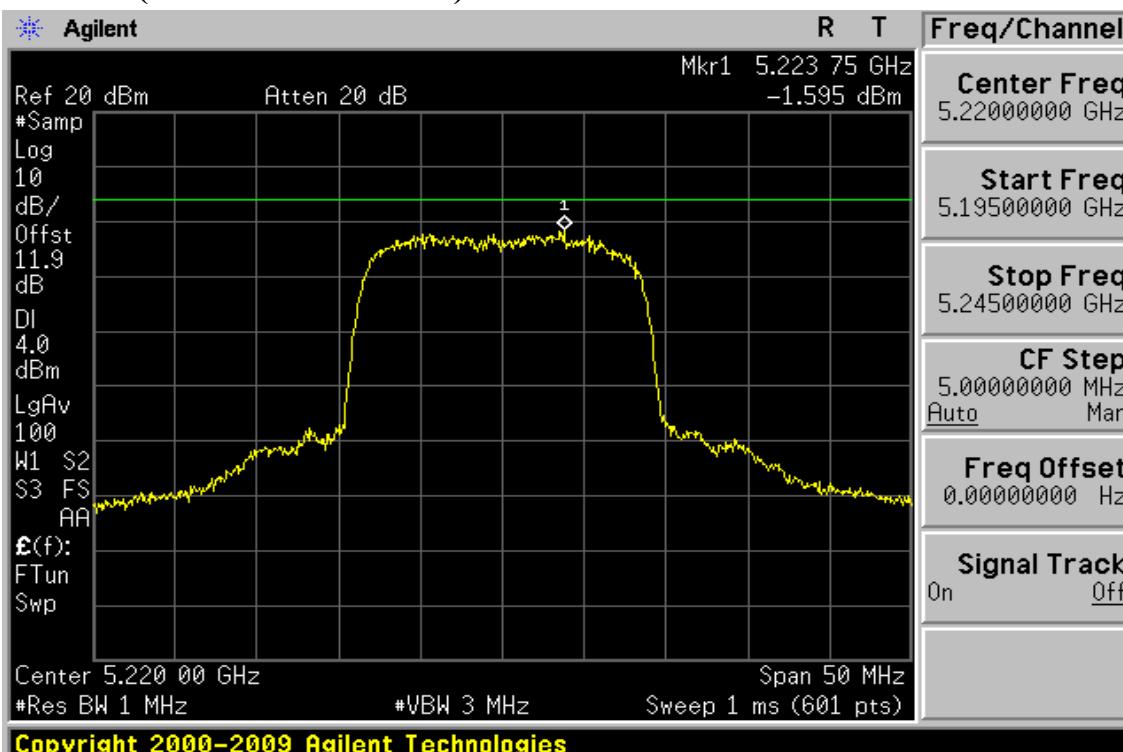
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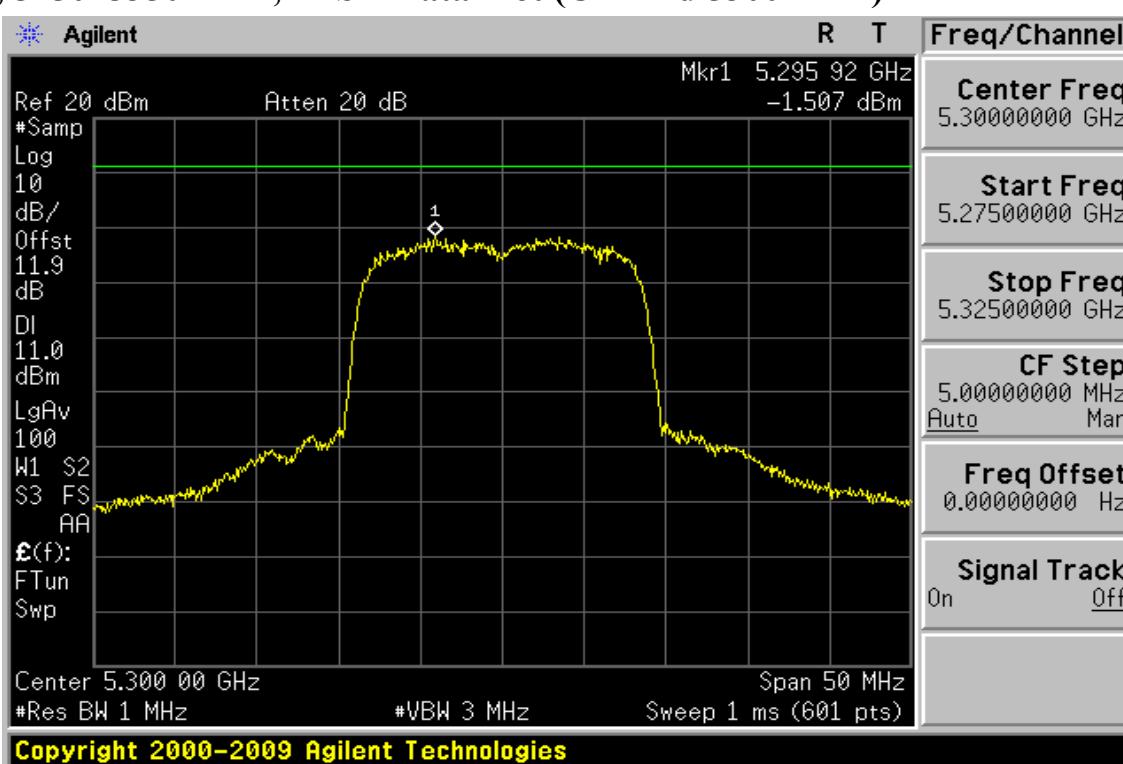
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Modulation Type: BPSK, Coding Rate: 1/2

PPSD Data Plot (CH Mid 5220 MHz)



802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)

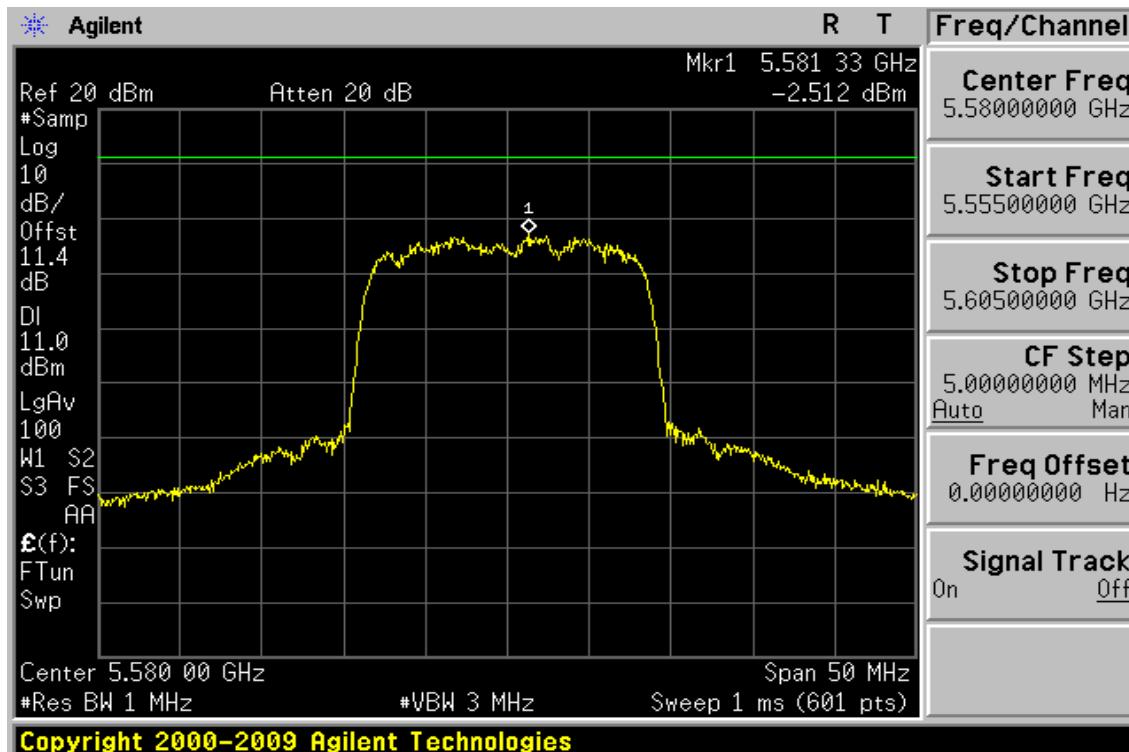


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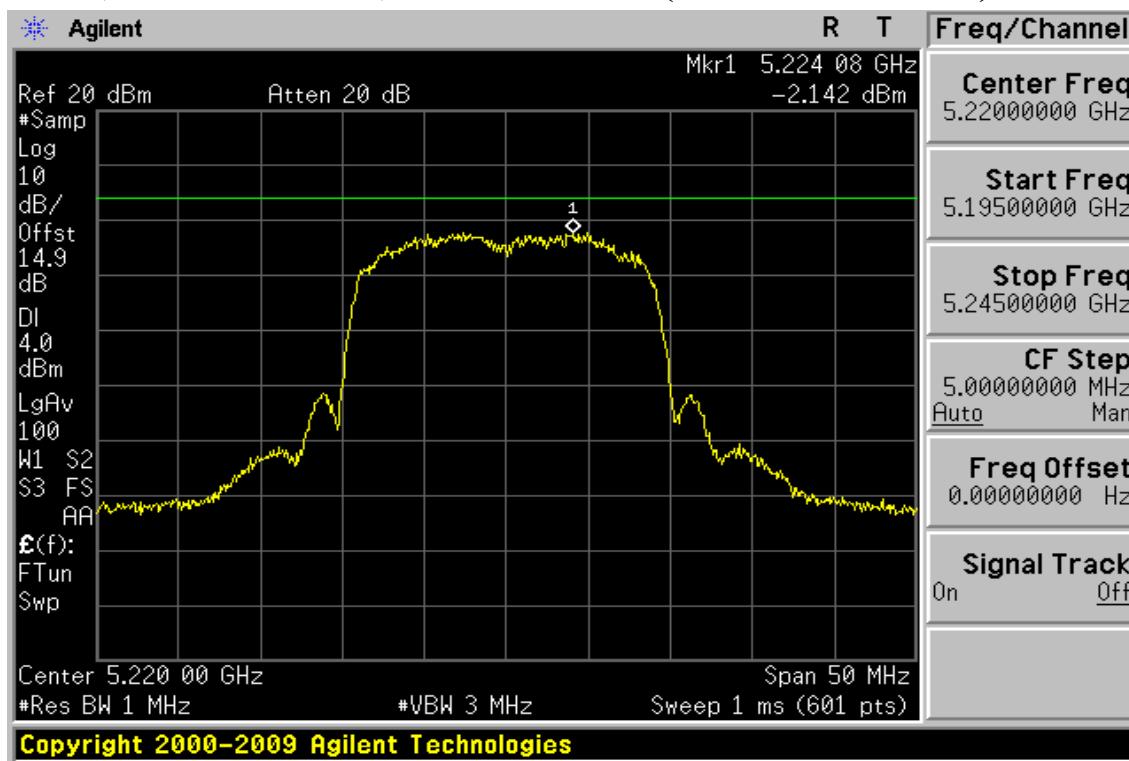
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)

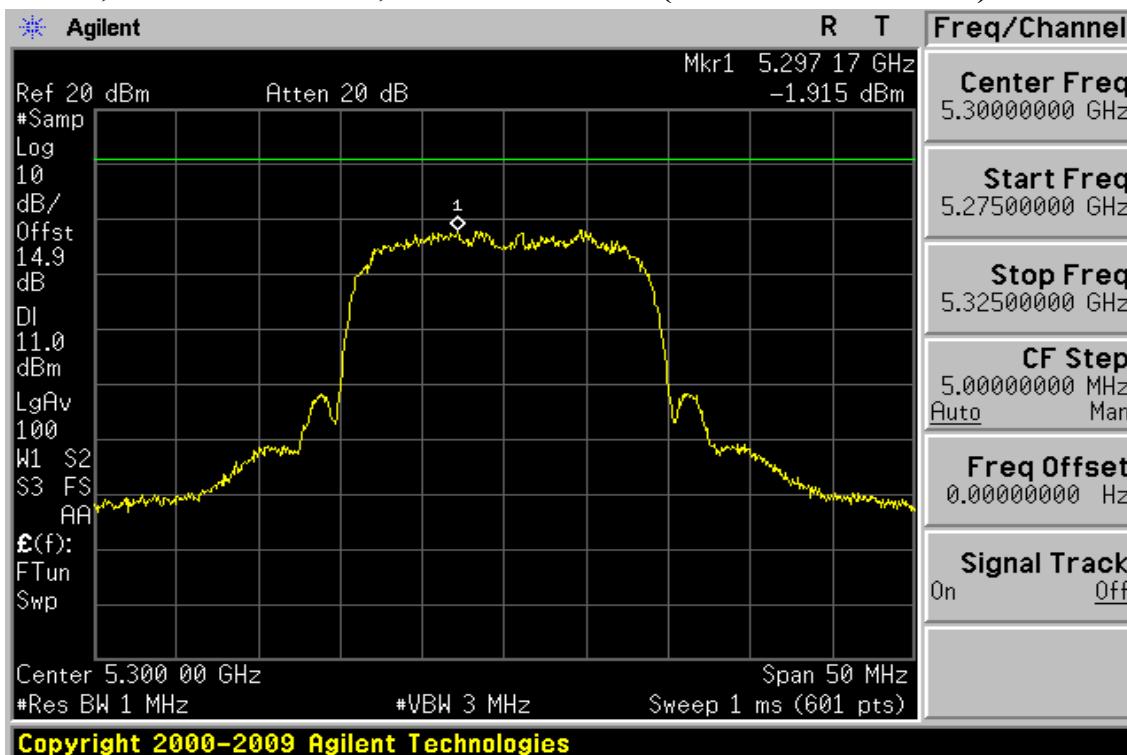


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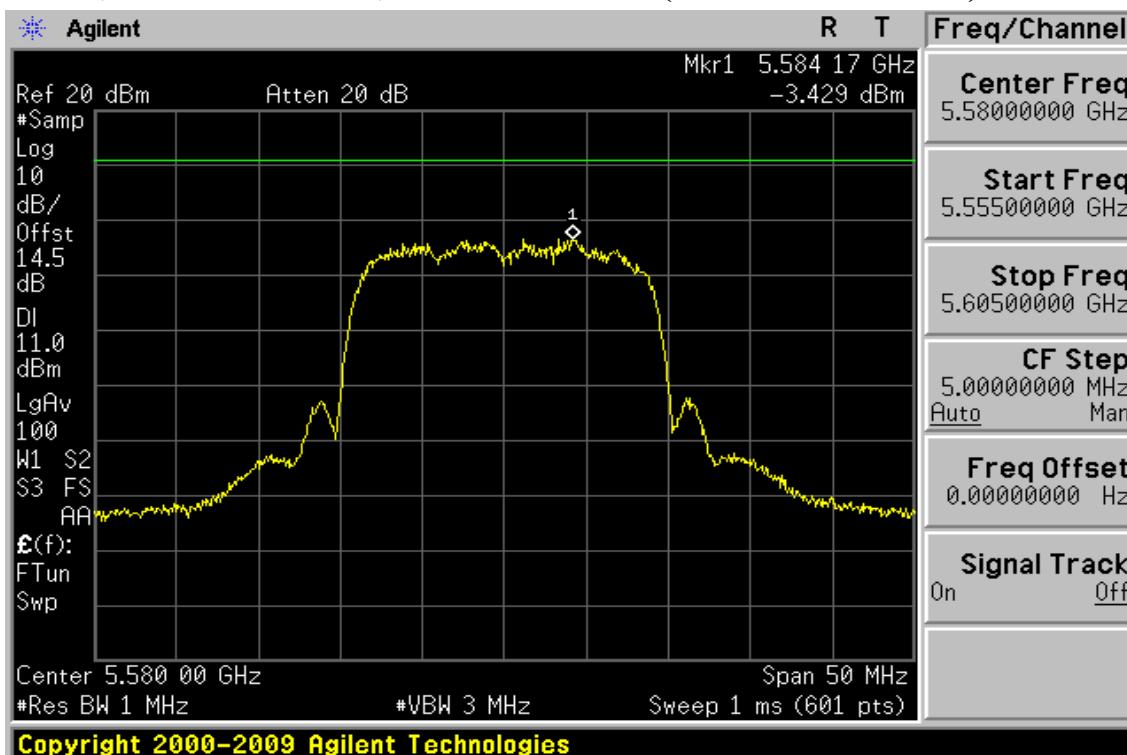
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)

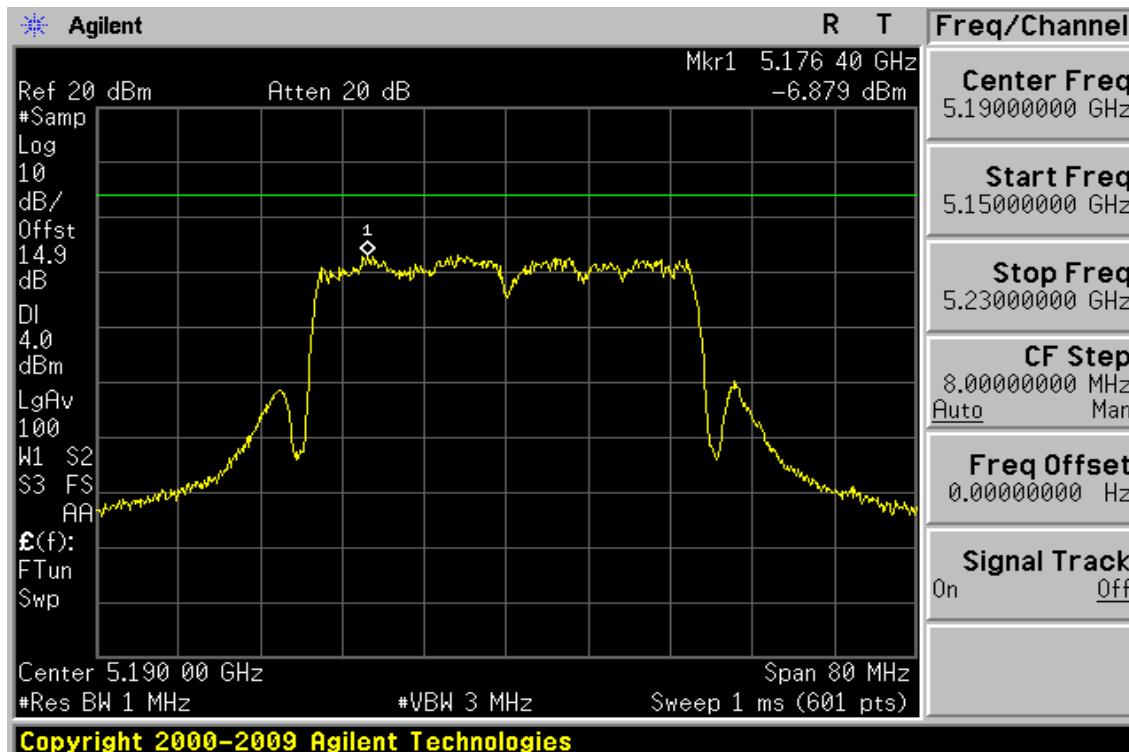


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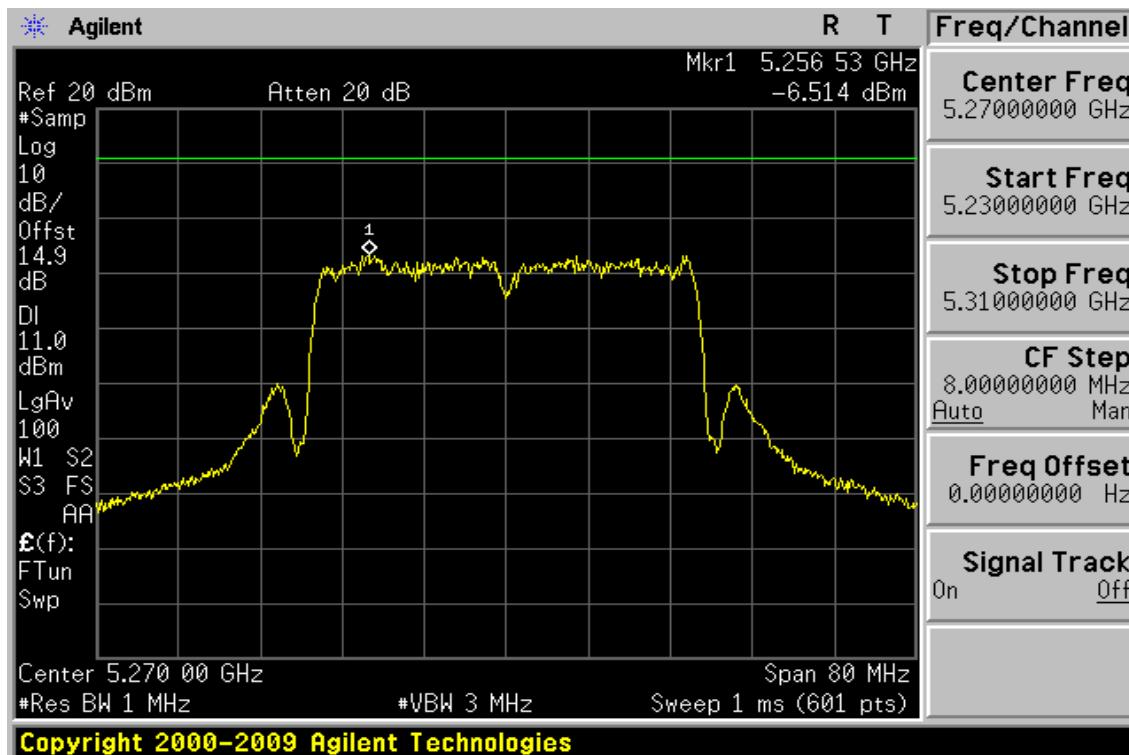
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



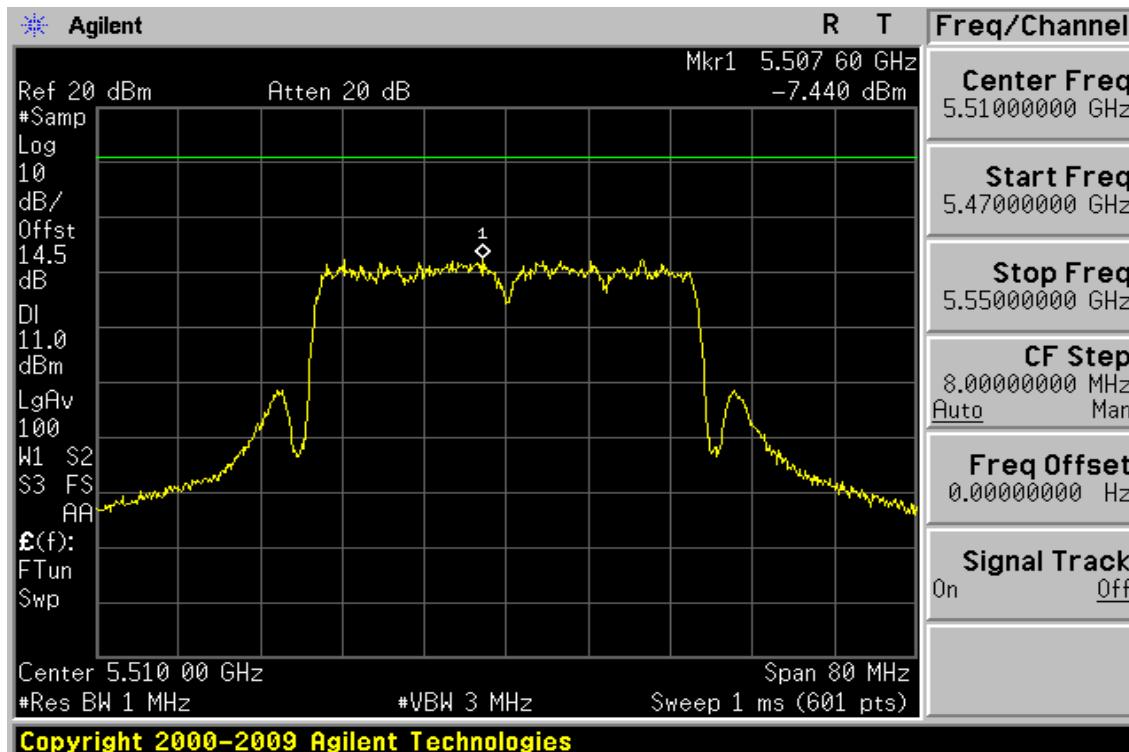
802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)



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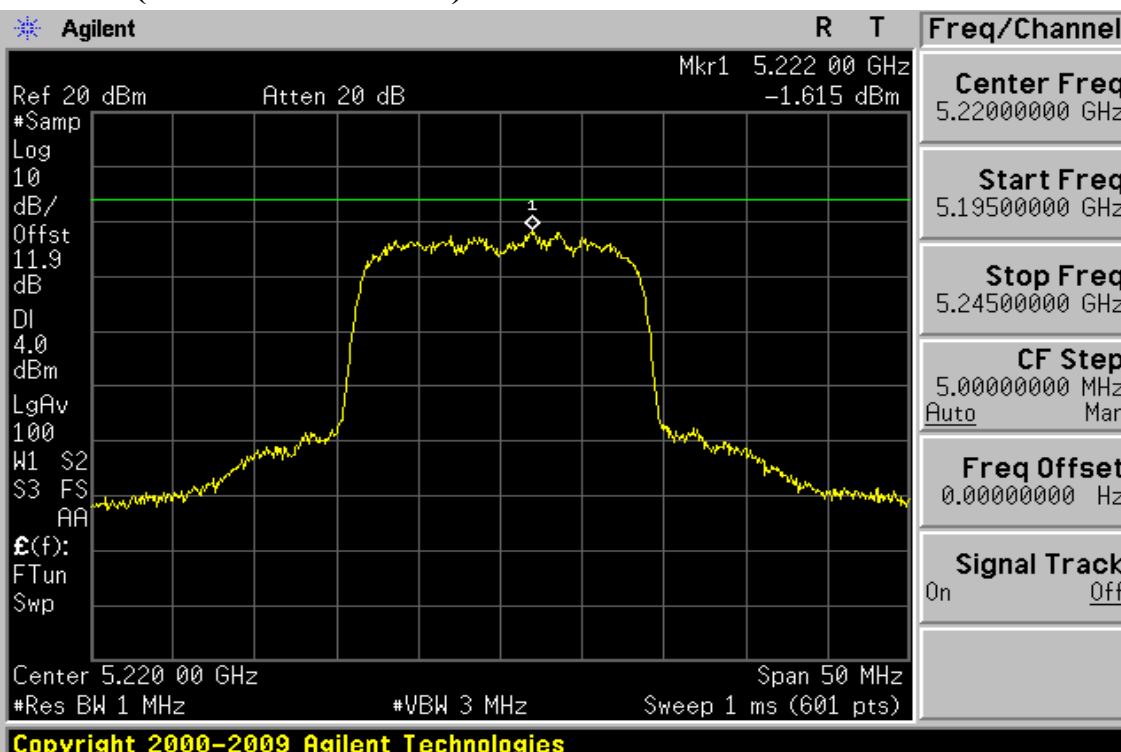
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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

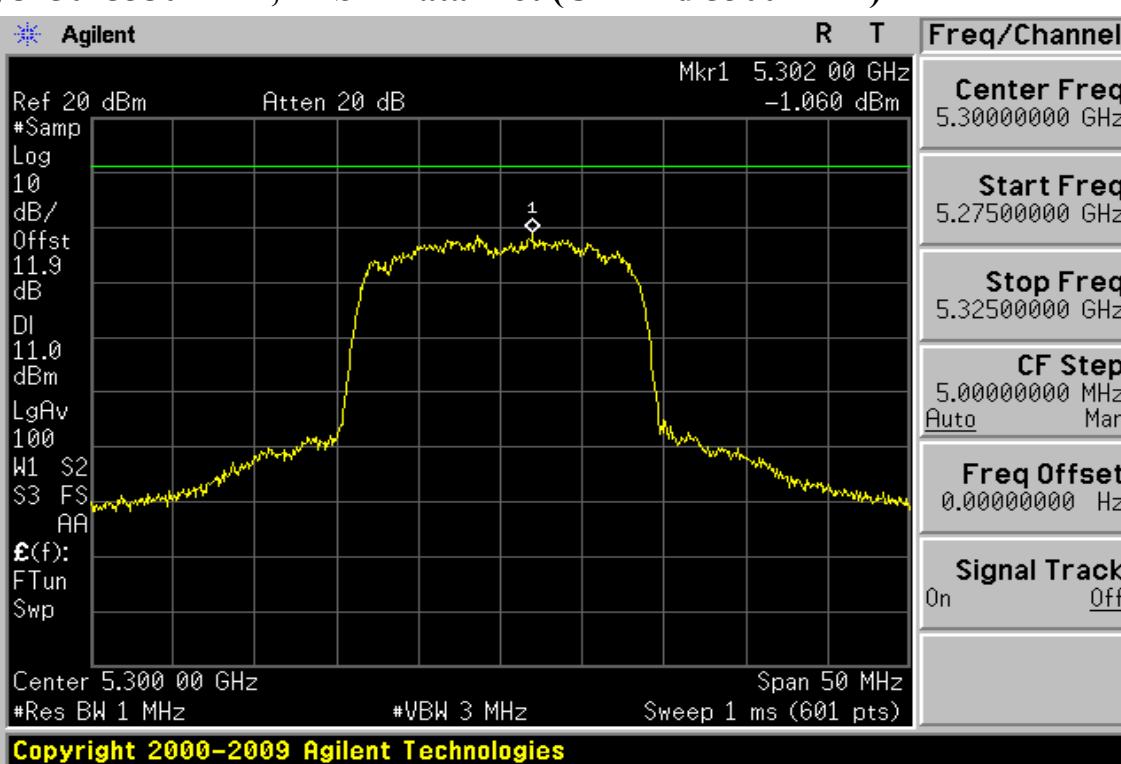
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Modulation Type: QPSK, Coding Rate: 1/2
 PPSD Data Plot (CH Mid 5220 MHz)


802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)

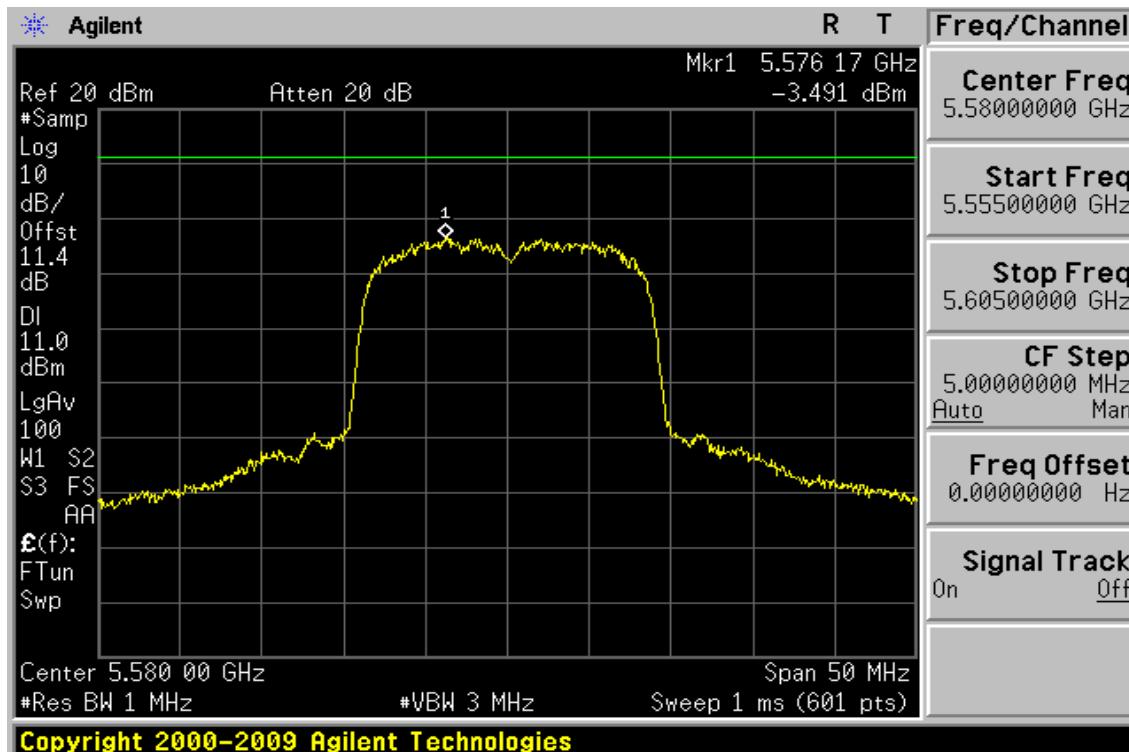


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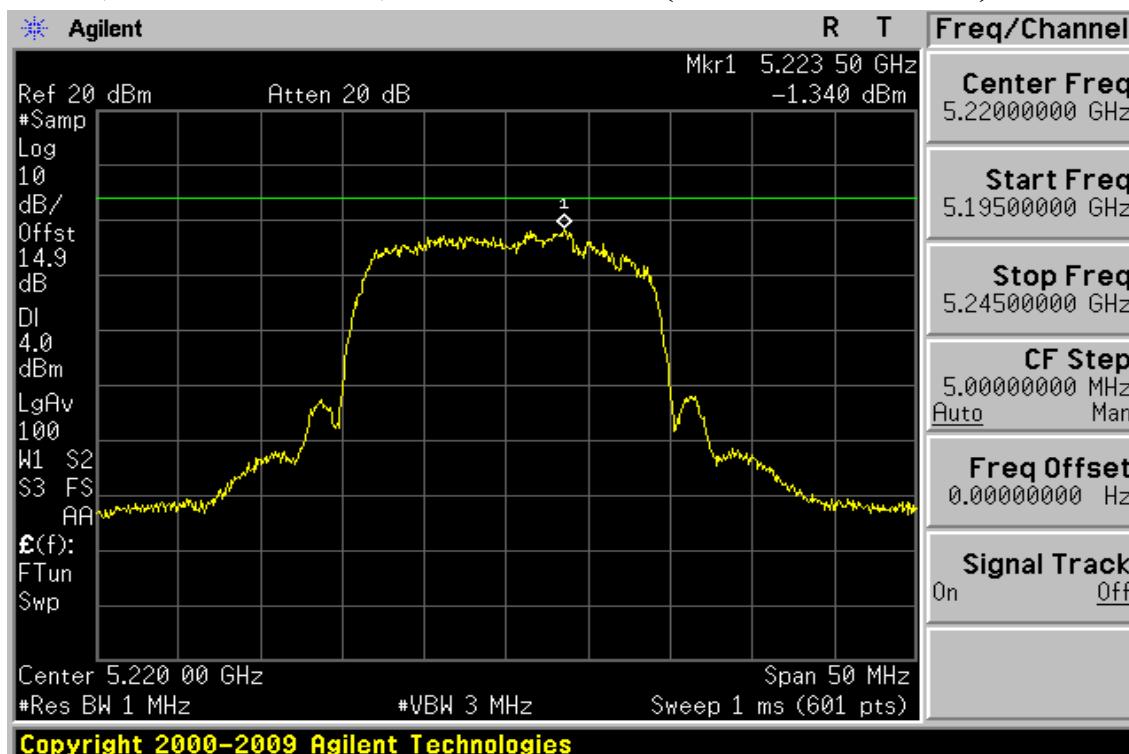
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)

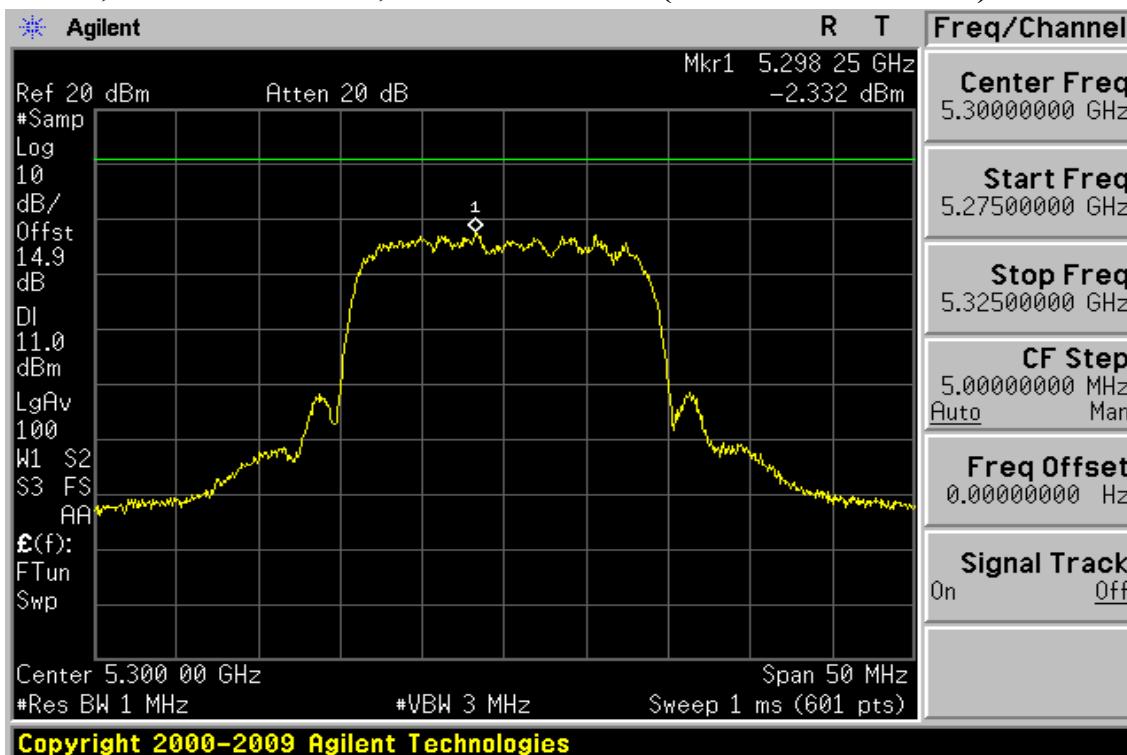


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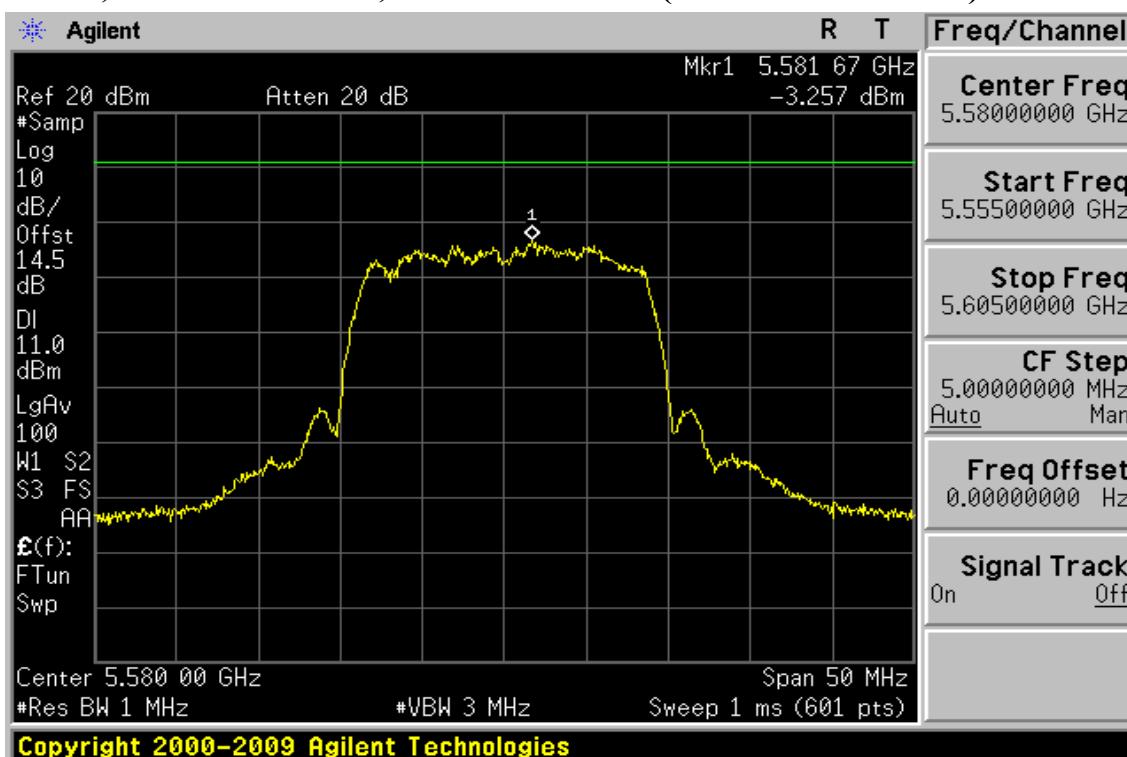
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)

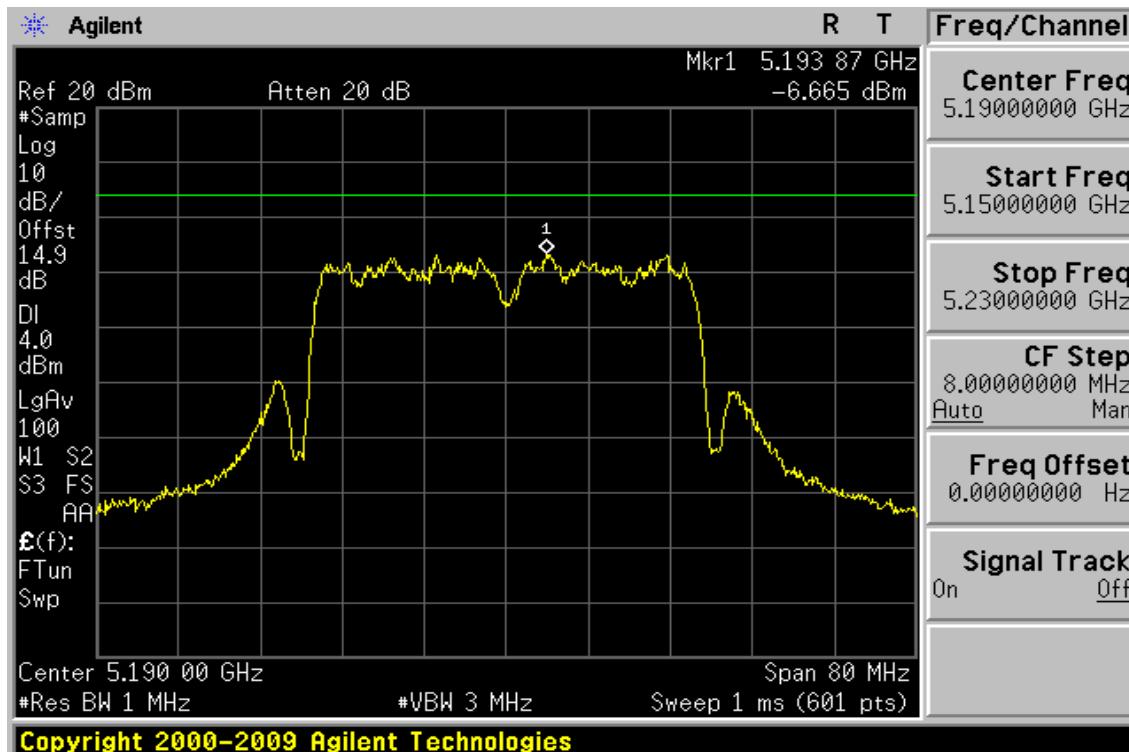


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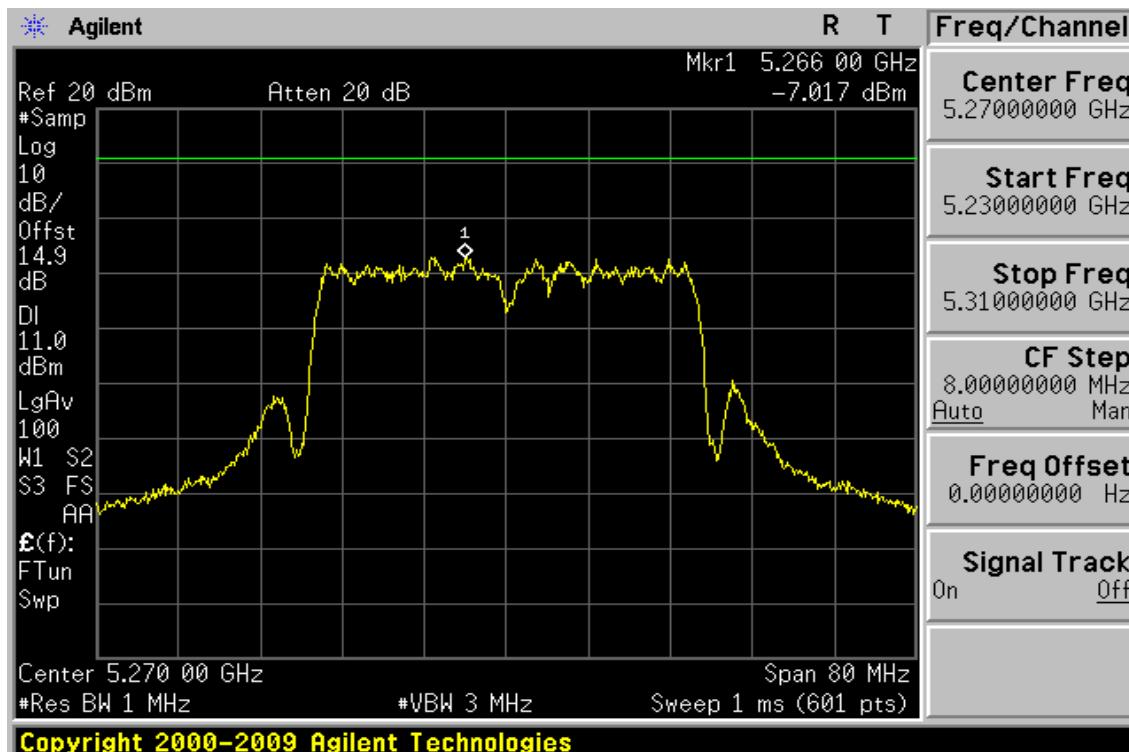
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



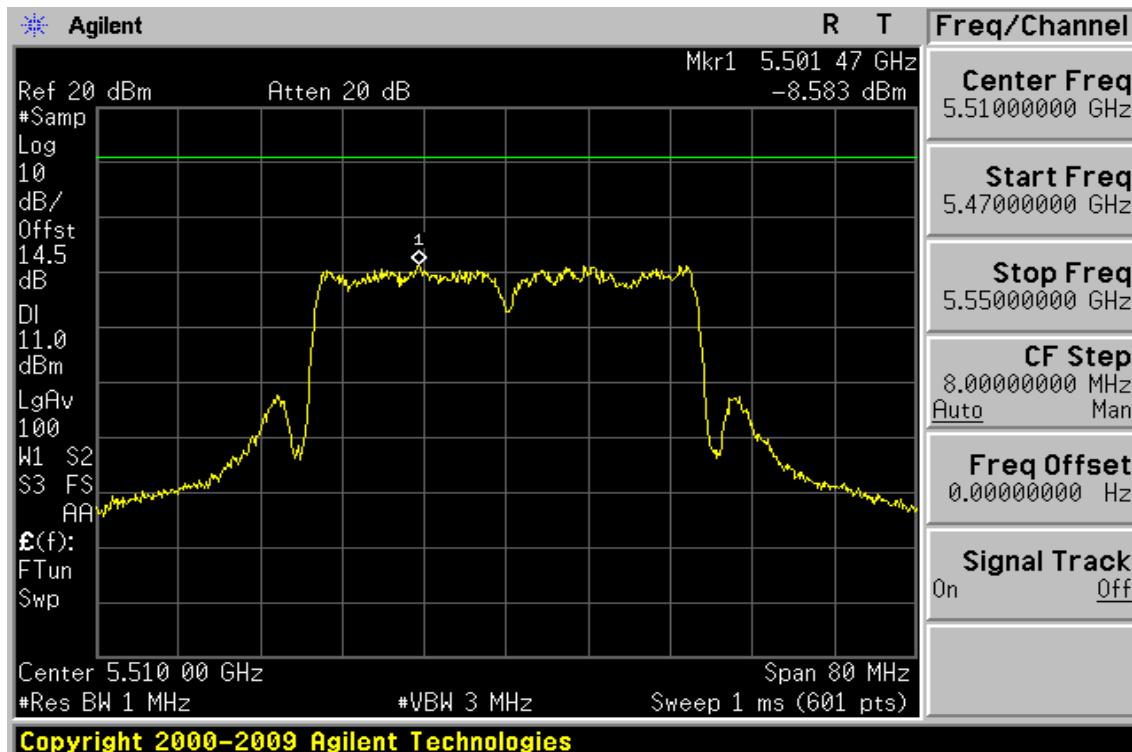
802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)



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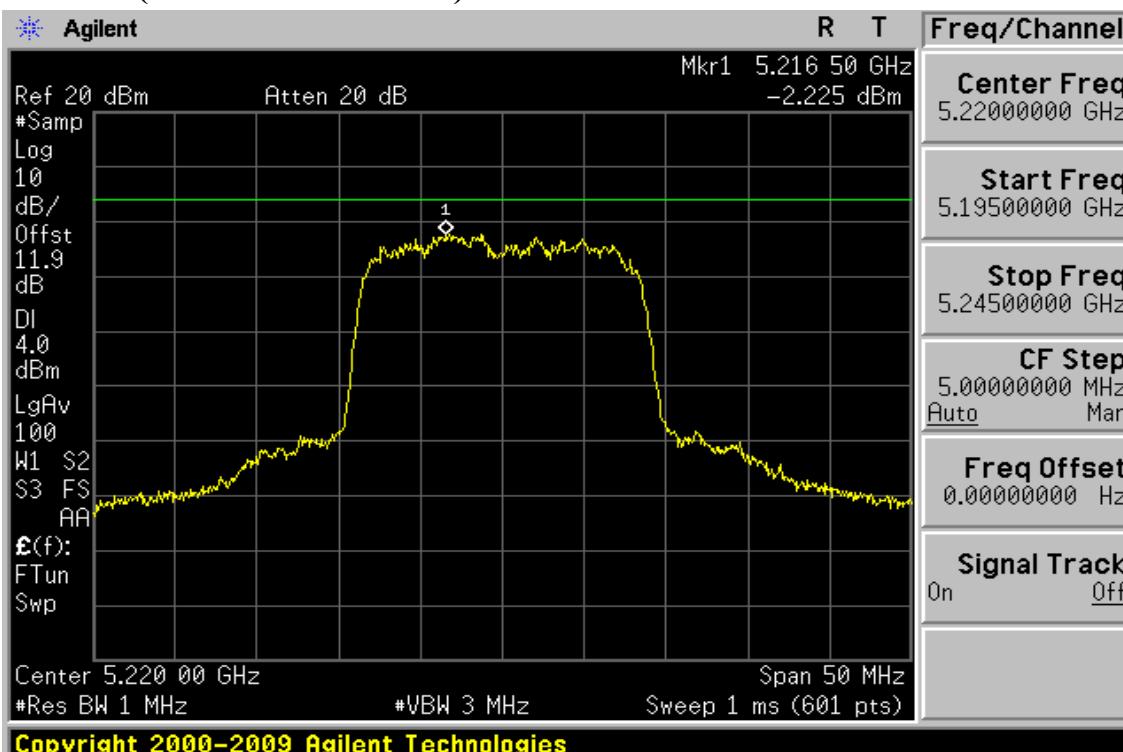
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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

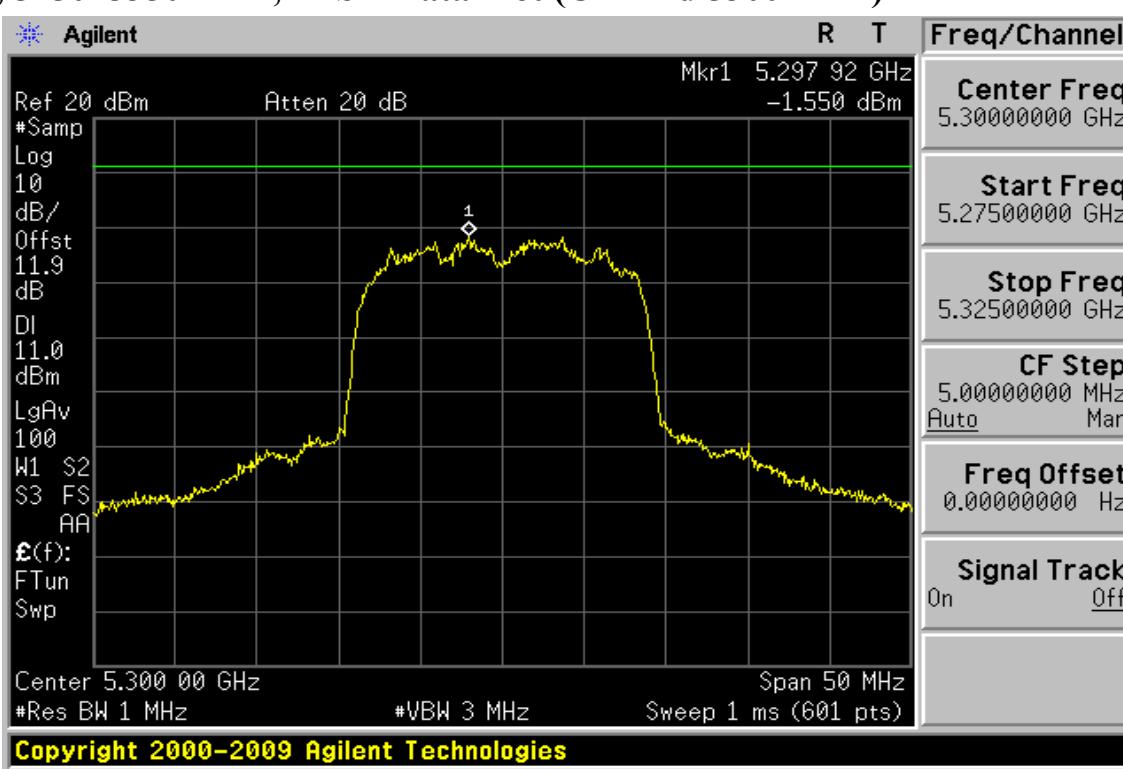
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Modulation Type: 16-QAM, Coding Rate: 1/2
 PPSD Data Plot (CH Mid 5220 MHz)


802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)

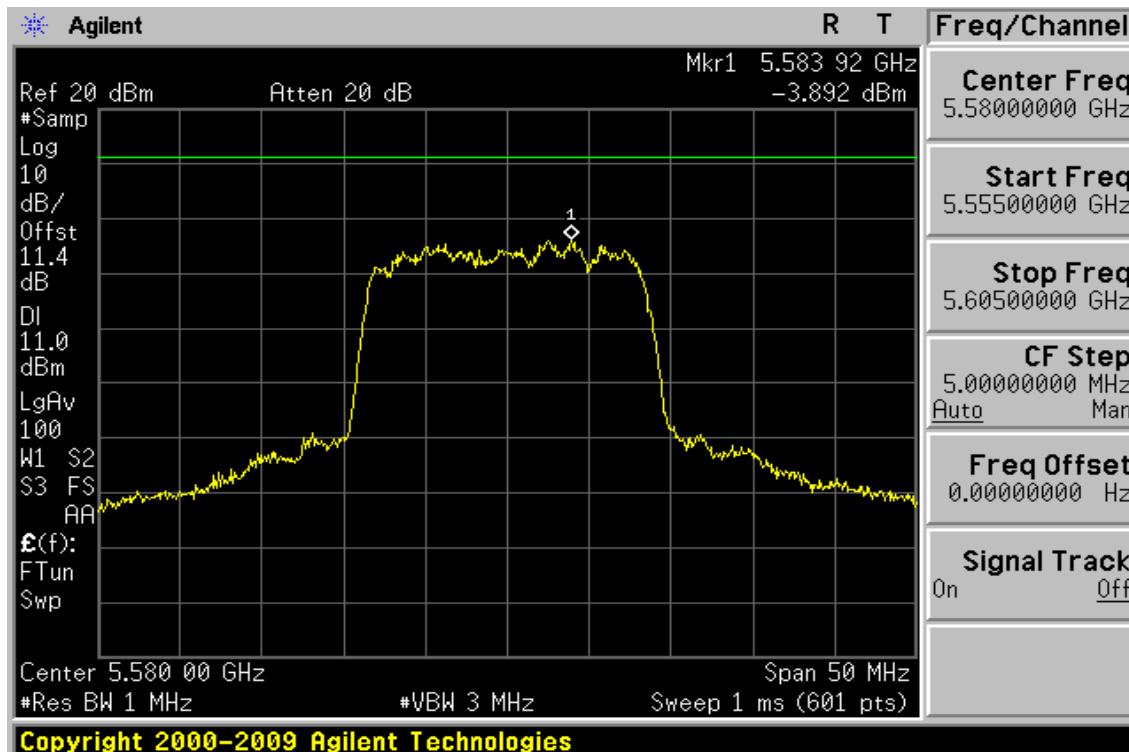


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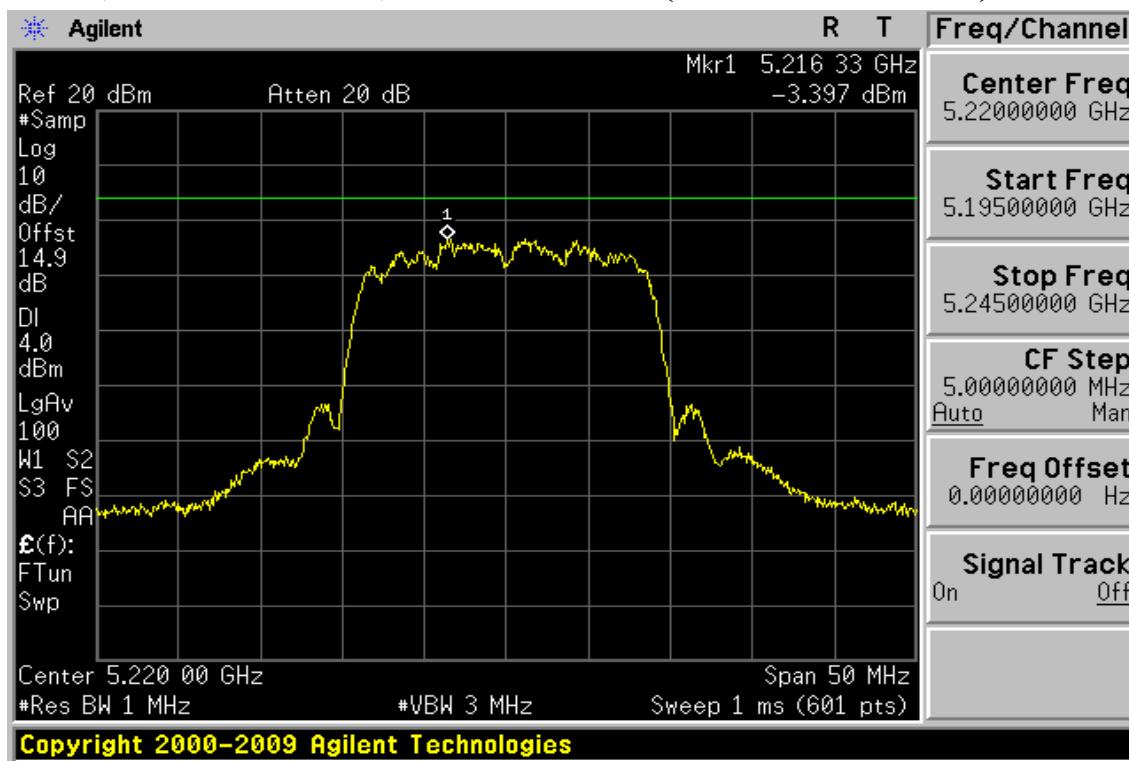
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)

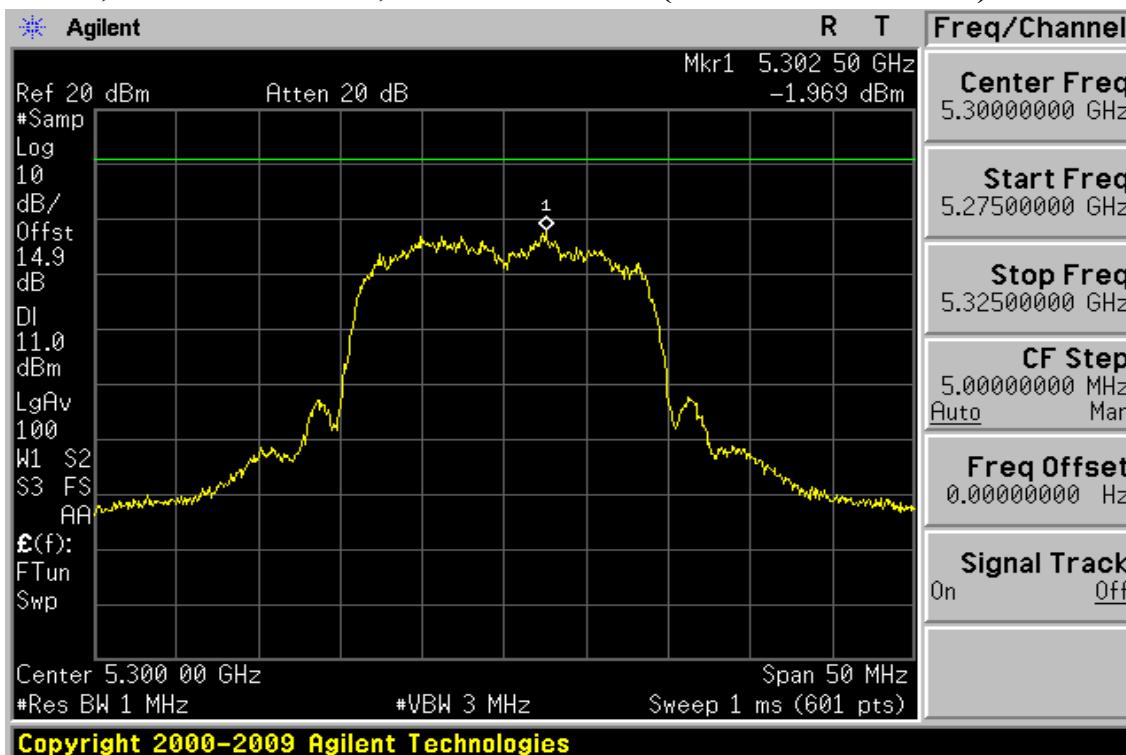


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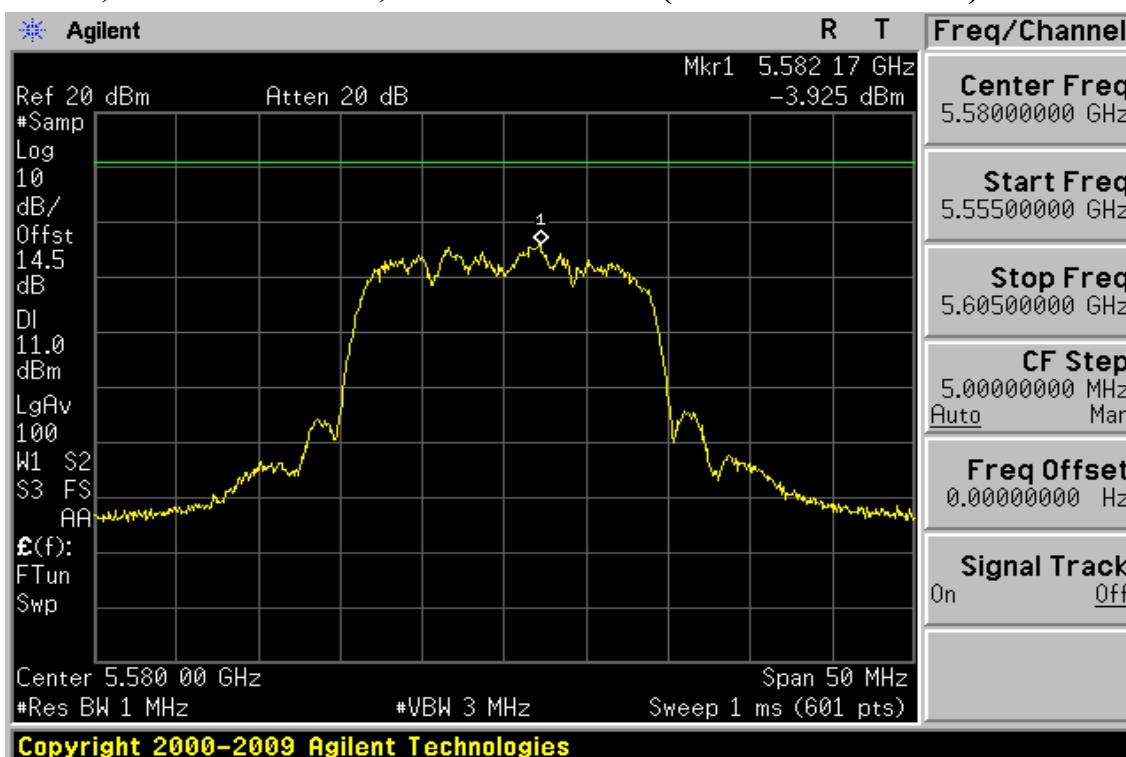
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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)

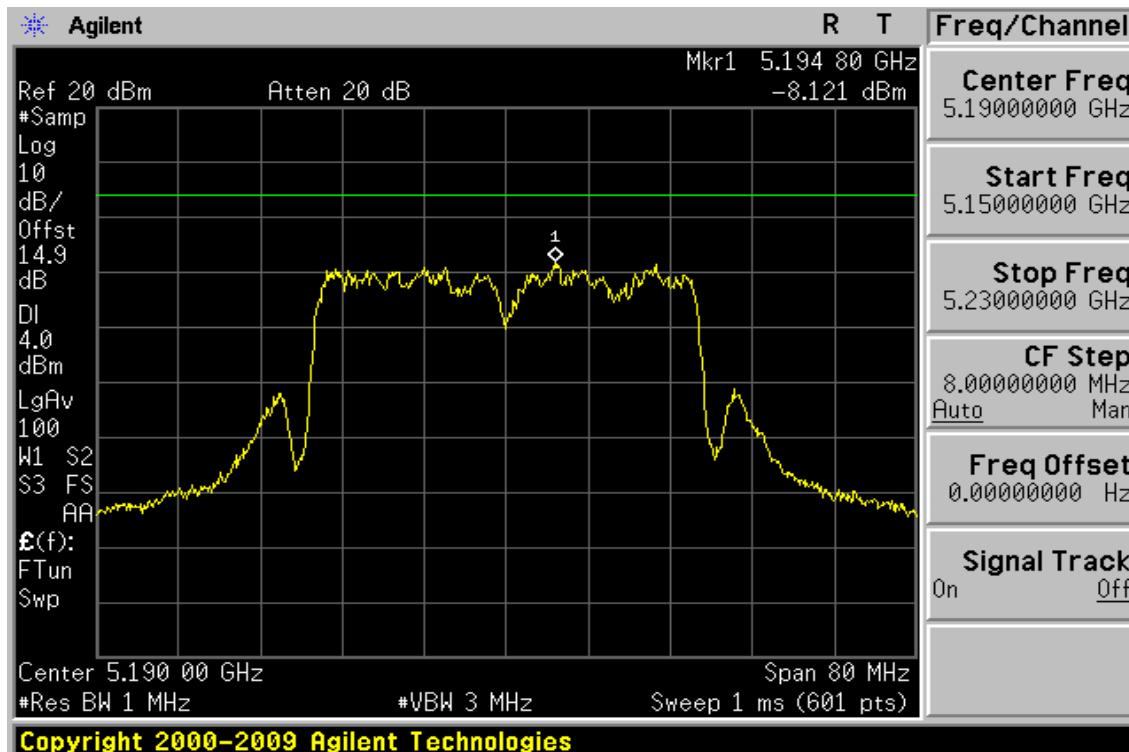


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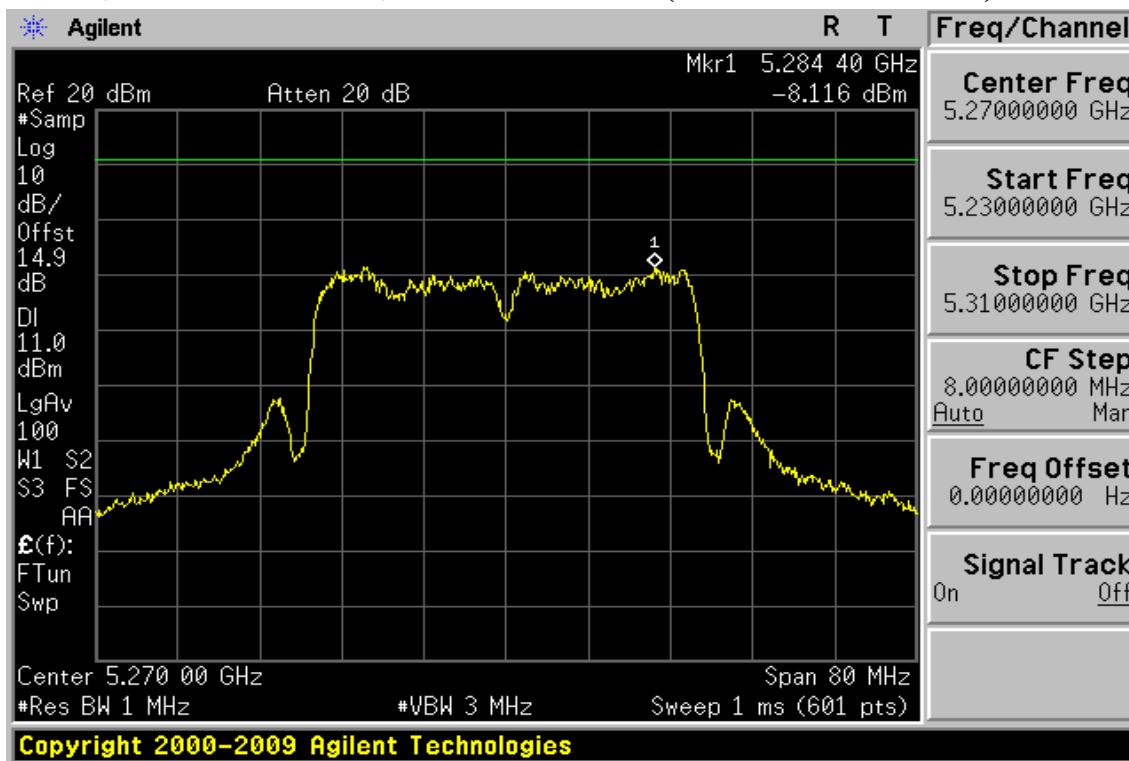
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



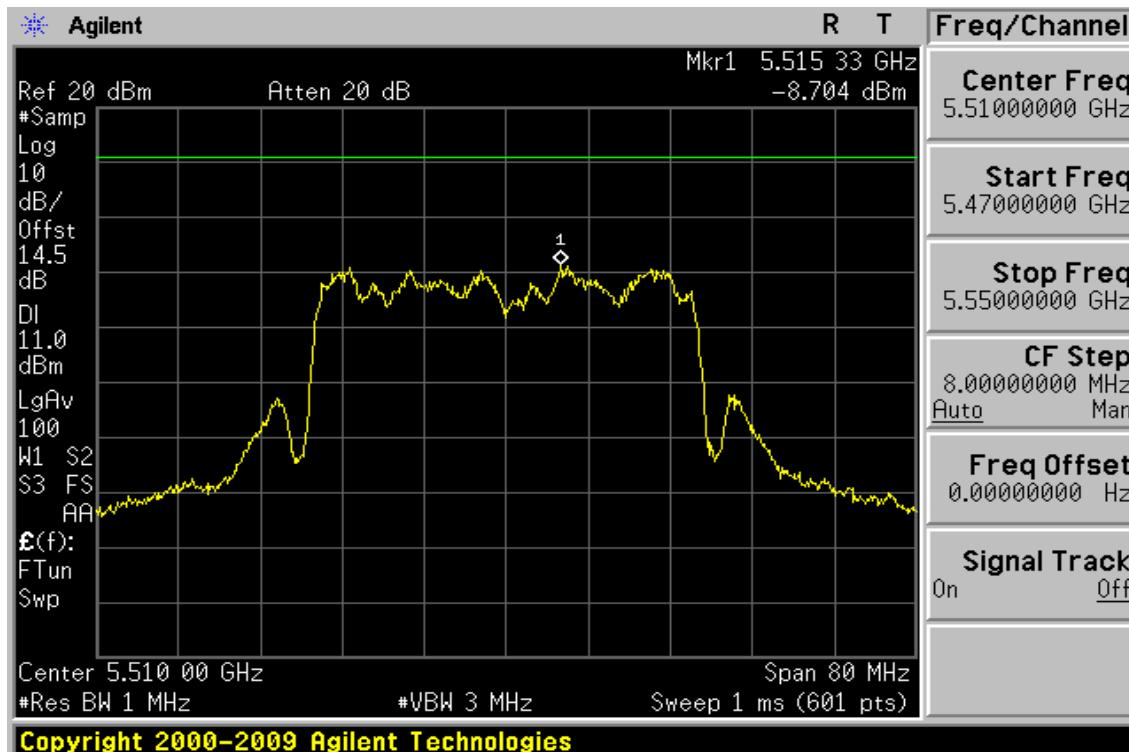
802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)



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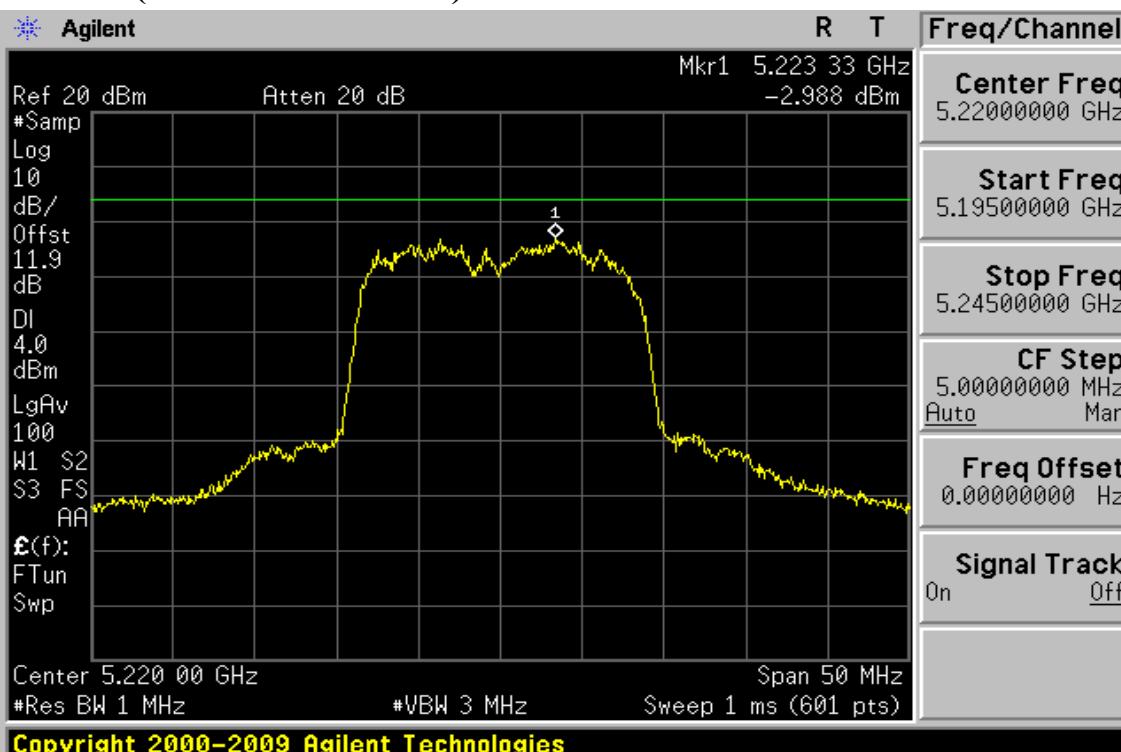
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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 MHz)

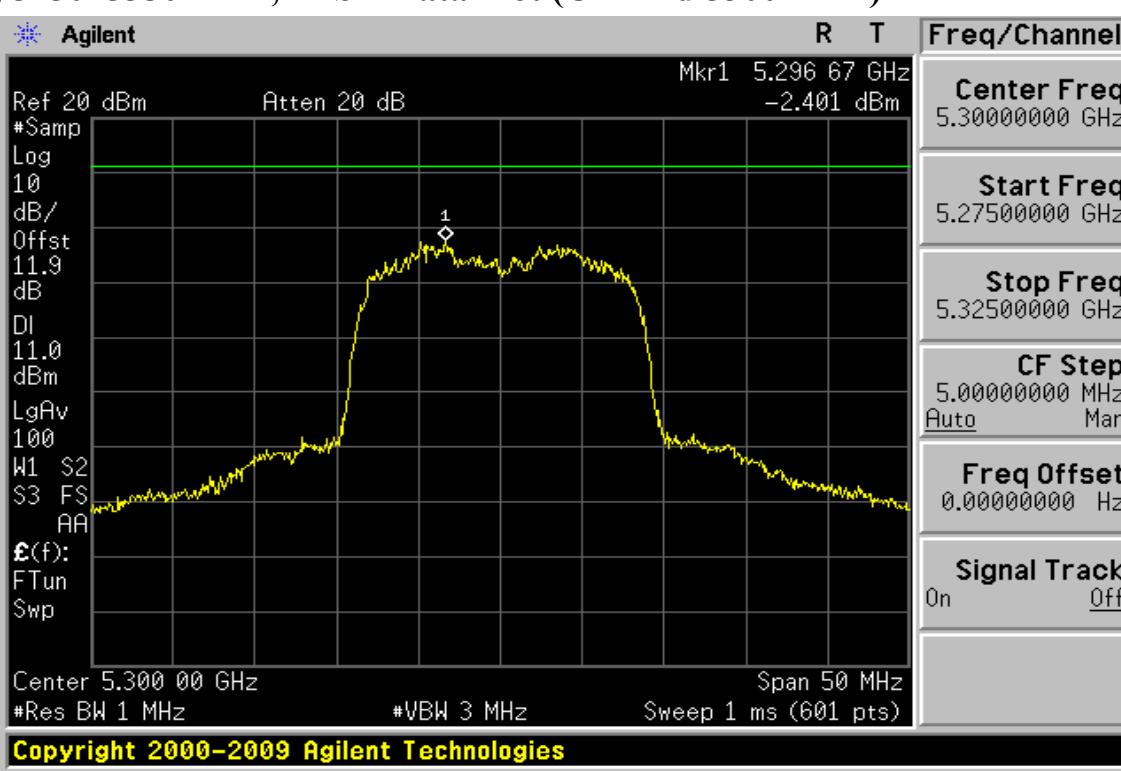
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Modulation Type: 64-QAM, Coding Rate: 2/3
 PPSD Data Plot (CH Mid 5220 MHz)


802.11a, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)

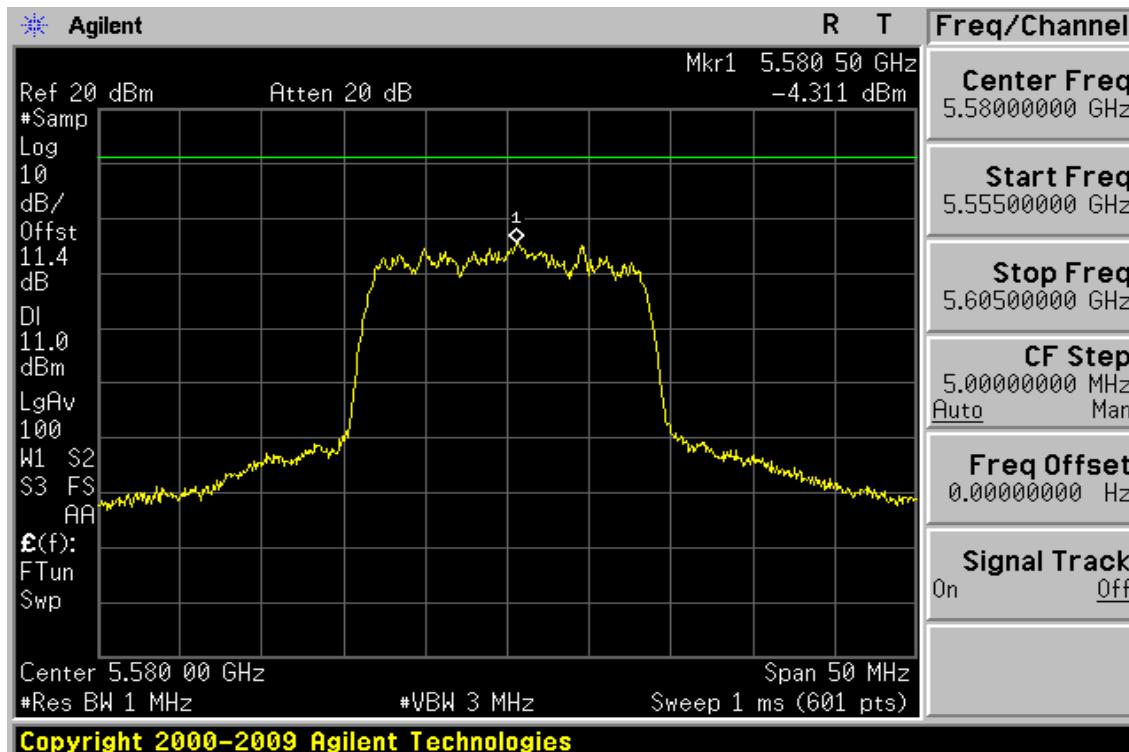


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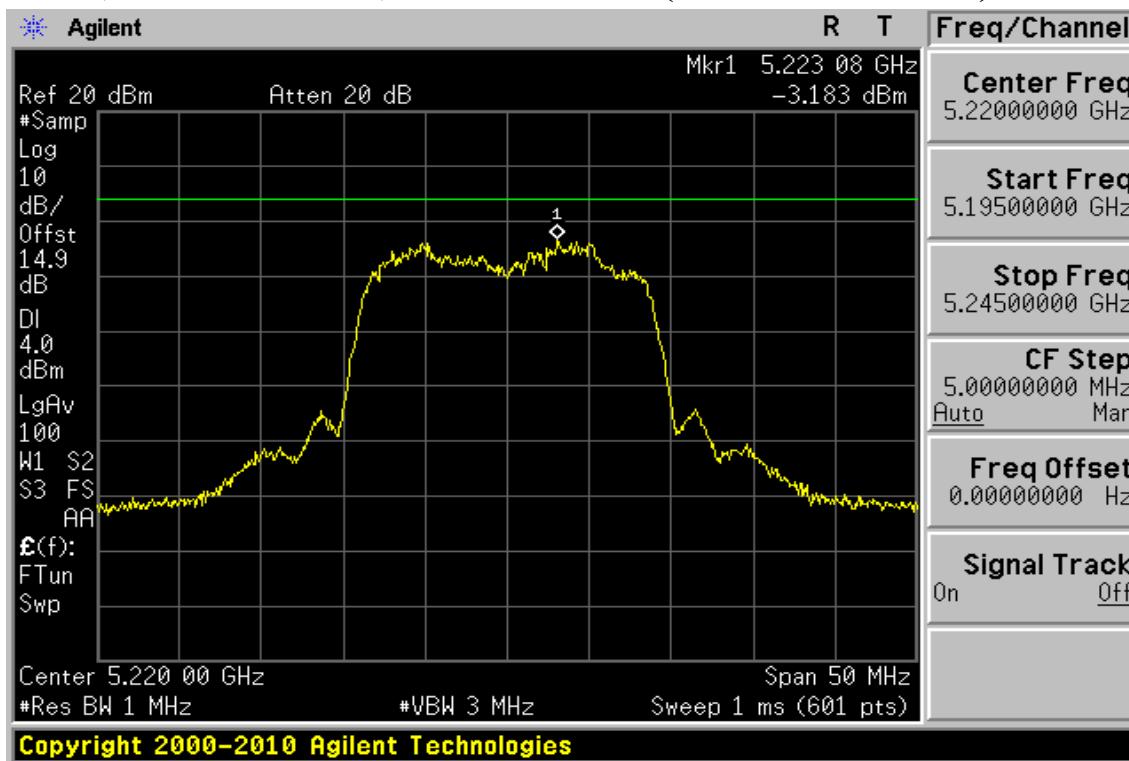
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802.11a, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580 MHz)



802.11n HT20, 5150~5250 MHz, PPSD Data Plot (CH Mid 5220 MHz)

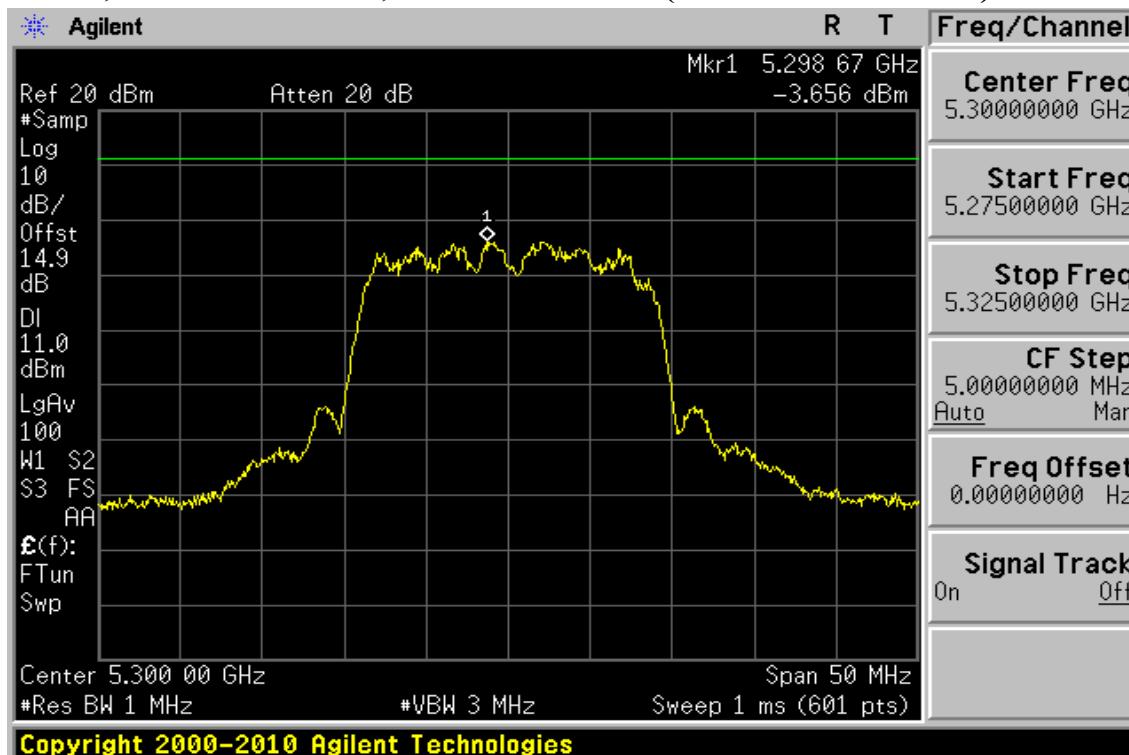


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802.11n HT20, 5250~5350 MHz, PPSD Data Plot (CH Mid 5300 MHz)



802.11n HT20, 5470~5725 MHz, PPSD Data Plot (CH Mid 5580MHz)

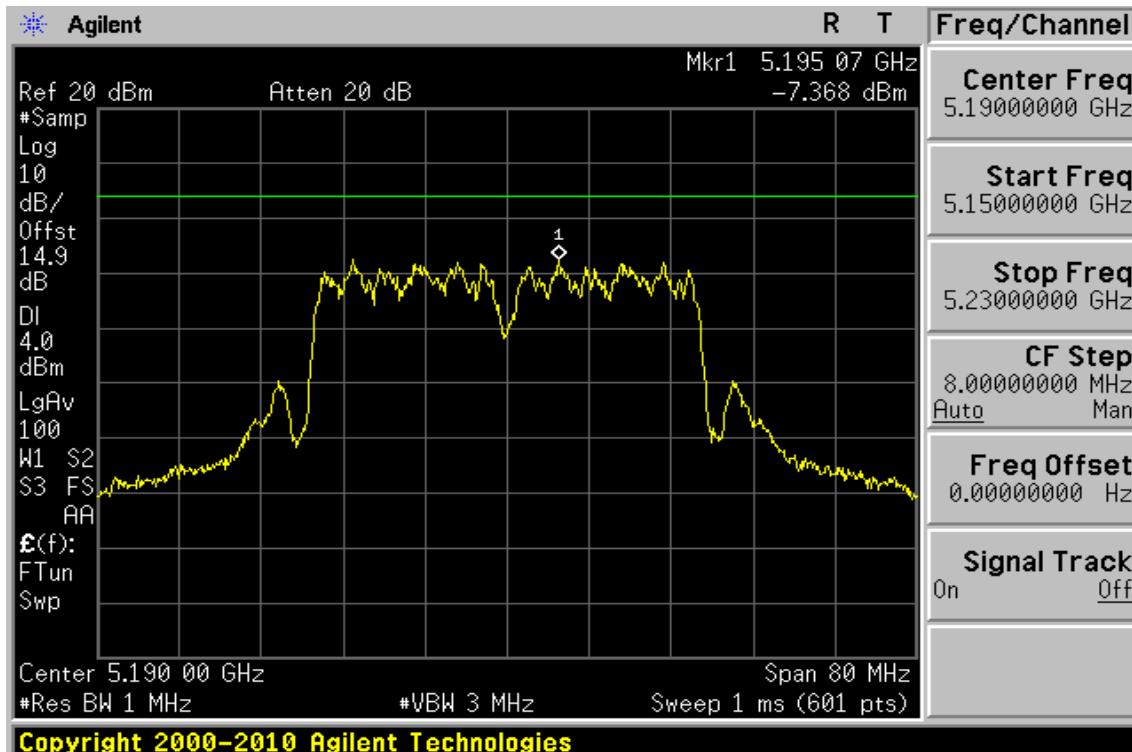


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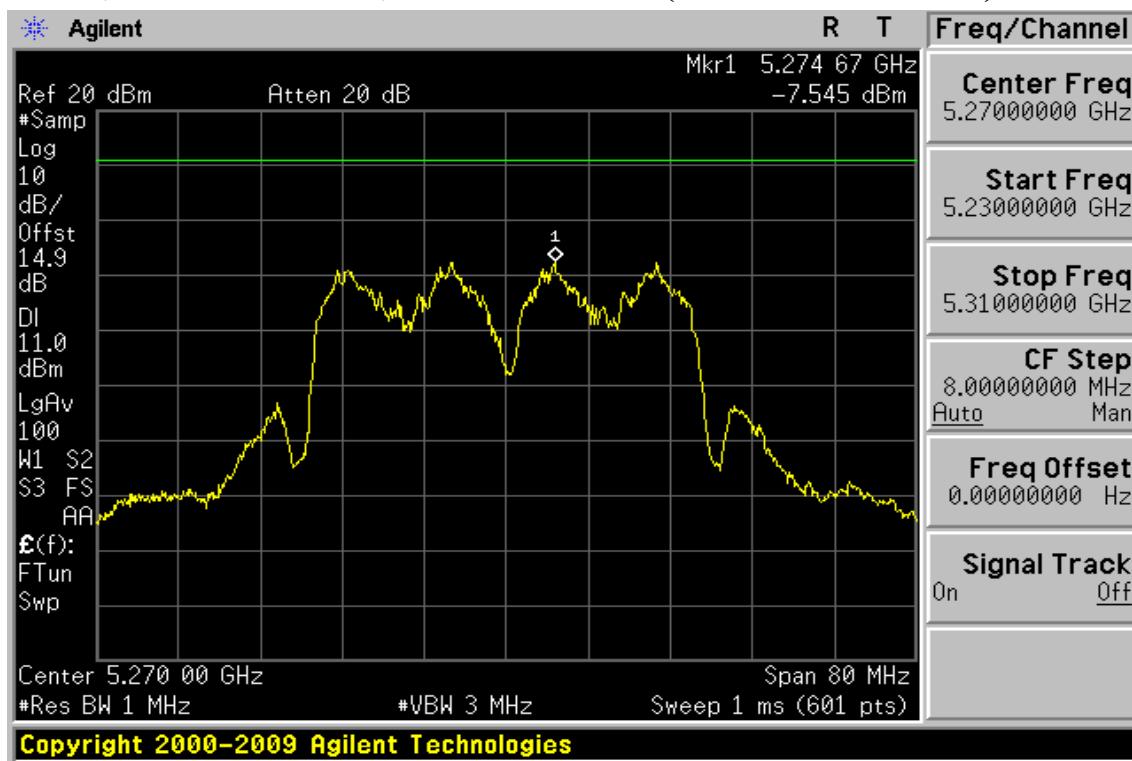
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802.11n HT40, 5150~5250 MHz, PPSD Data Plot (CH Low 5190 MHz)



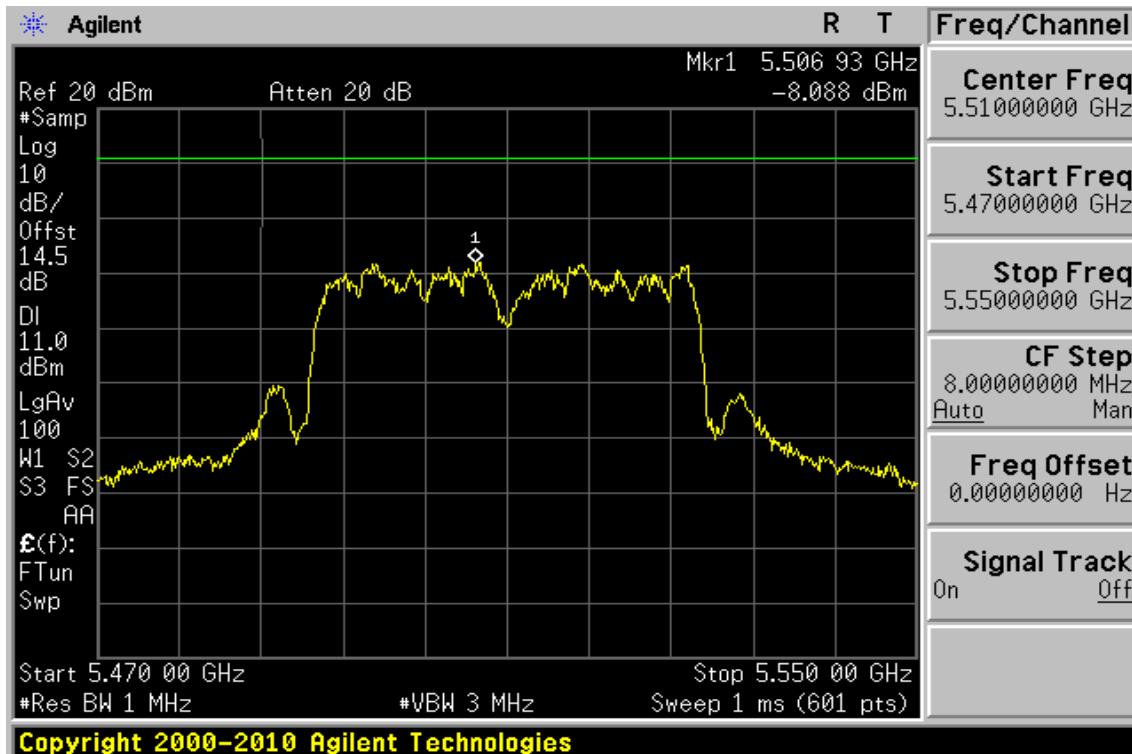
802.11n HT40, 5250~5350 MHz, PPSD Data Plot (CH Low 5270 MHz)



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802.11n HT40, 5470~5725 MHz, PPSD Data Plot (CH Low 5510 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) 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.

According to RSS-210 A9.2

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. Emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
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.

Procedure H2) a) b) c) are adopted, KDB 789033 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 1) 2) 3), and RSS-210 A9.2 1), 2), and 3)

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11.2 Measurement Procedure

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100 kHz, VBW = 300 kHz while frequency of the measurement is swept below 1GHz, RBW = 1MHz & VBW = 3MHz while frequency of the measurement is swept above 1GHz on Spectrum. Detector = Peak, set DL as the limit line to -27dBm, add the offset = 4.7dB for frequency below 1GHz, and 2dB for frequency above 1GHz.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G 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.

Note: the spike on the spectrum is the fundamental emission that does not account for the test outside the frequency band as required by associative regulatory provision.

11.3 Measurement Equipment Used:

Refer to section 7.3 for details.

11.4 Test Set-up:

Refer to section 7.4 for details.

11.5 Measurement Result:

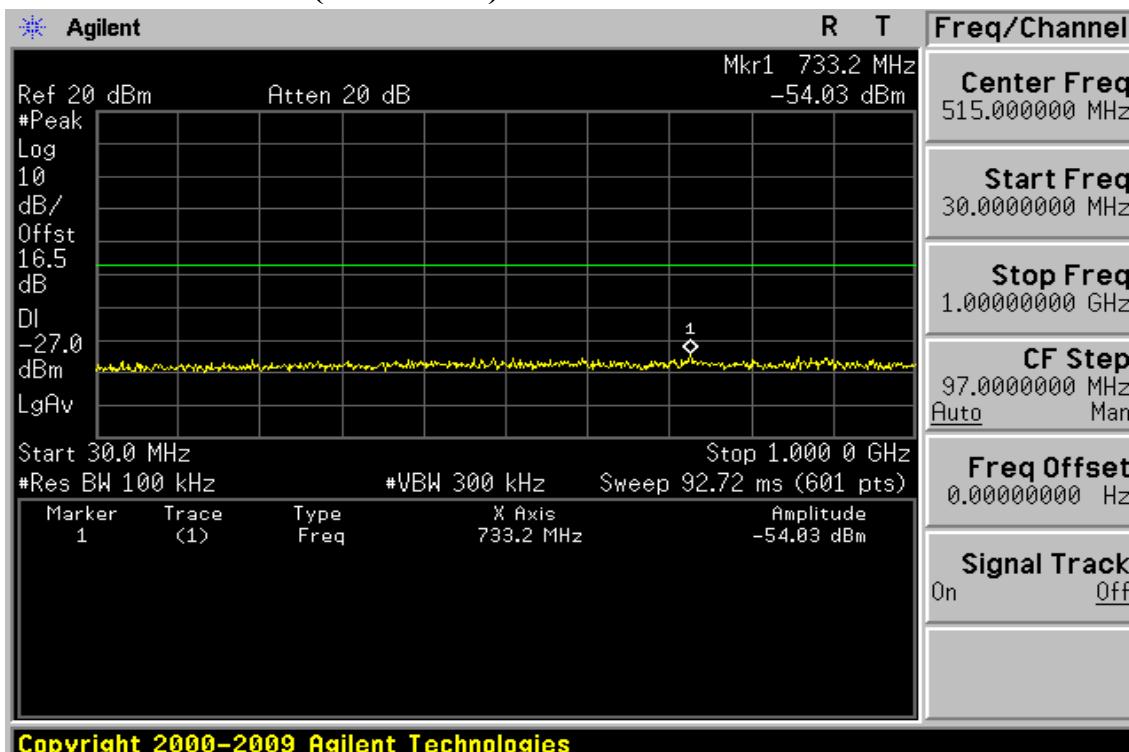
Refer to next page for plots.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of spurious emission, and bandedge for conducted compliance test items.

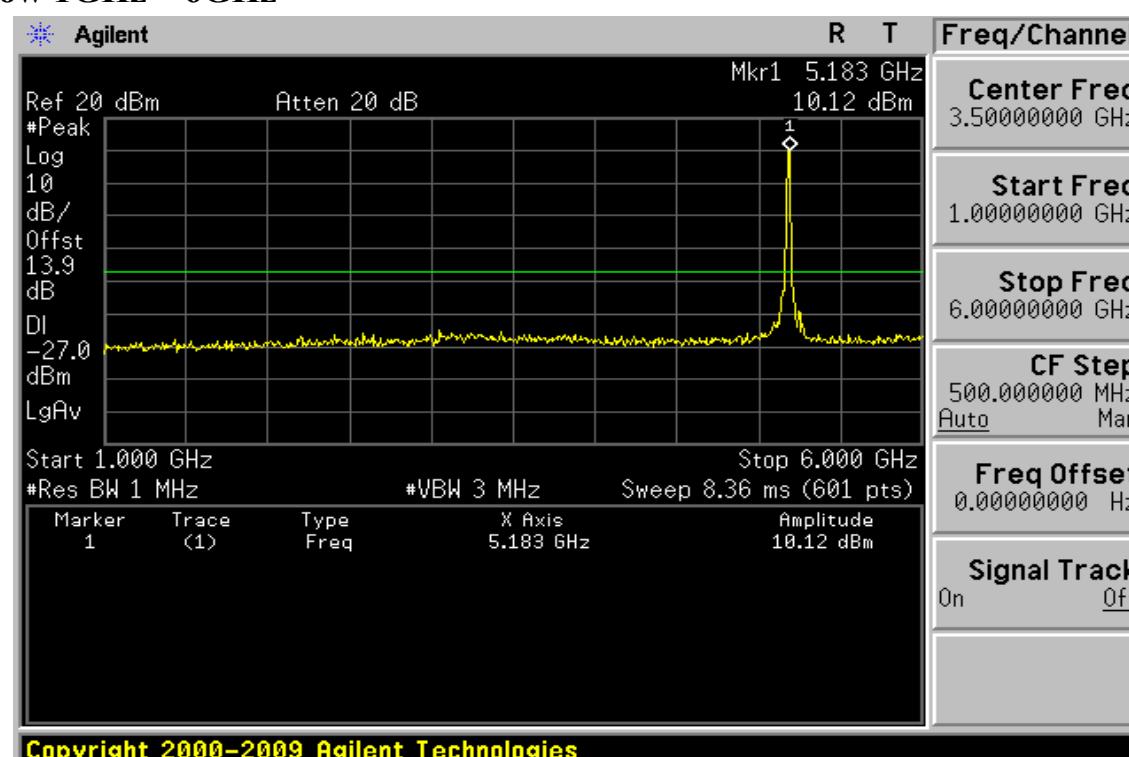
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802.11a, 5150~5250 MHz
 Ch Low 30MHz – 1GHz (5180 MHz)


Ch Low 1GHz – 6GHz

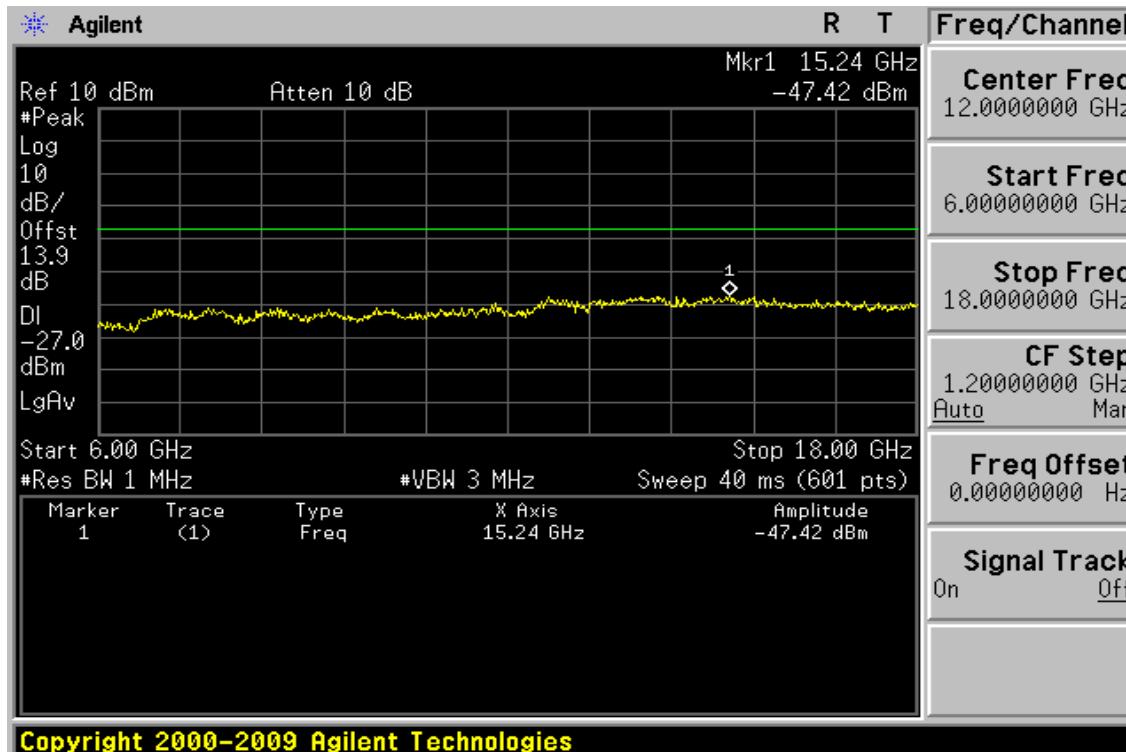


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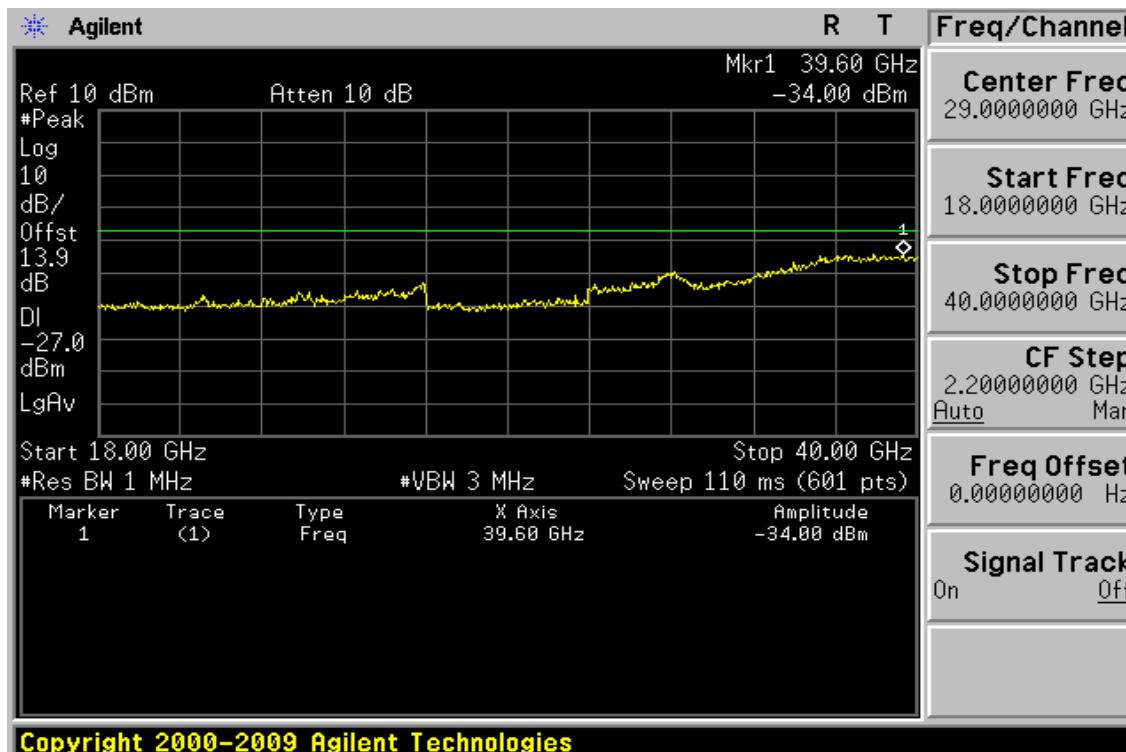
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

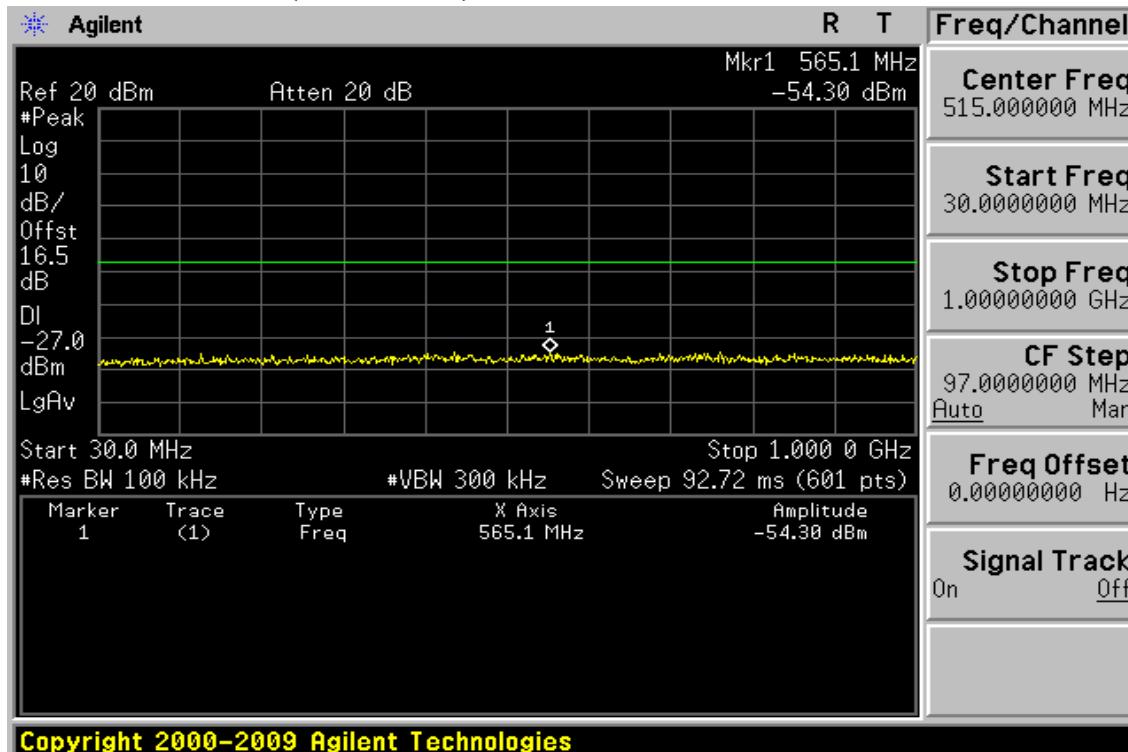


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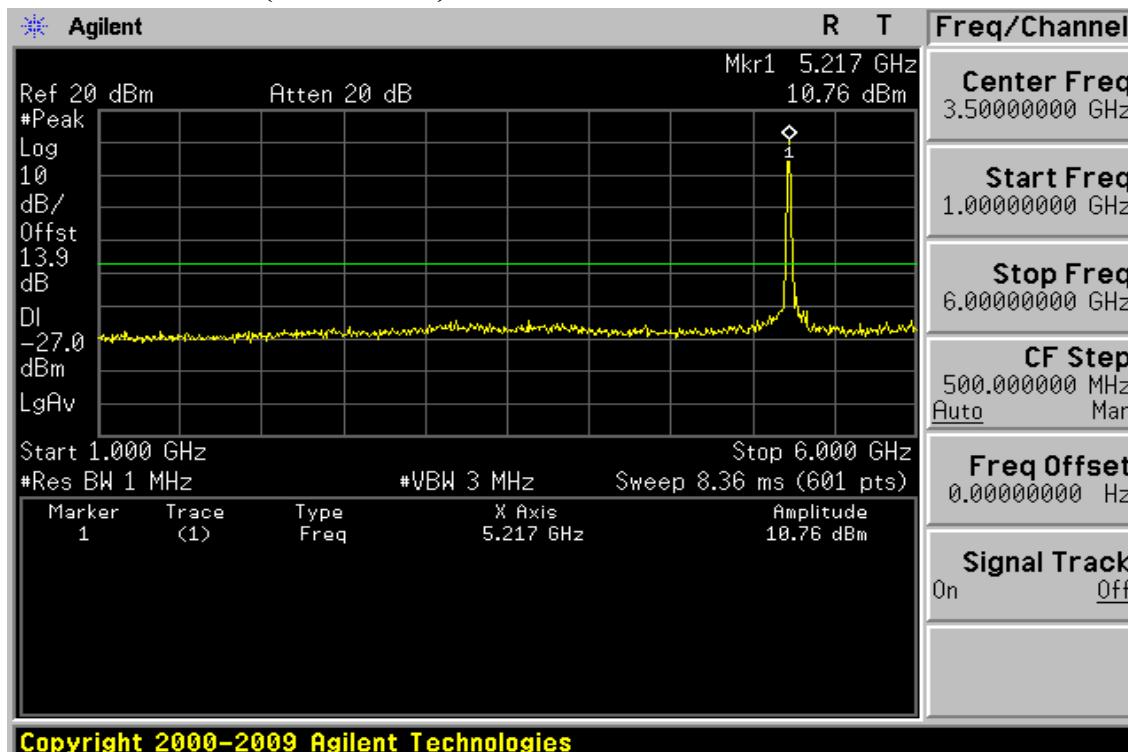
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Ch Mid 30MHz – 1GHz (5220 MHz)



Ch Mid 1GHz – 6GHz (5220 MHz)

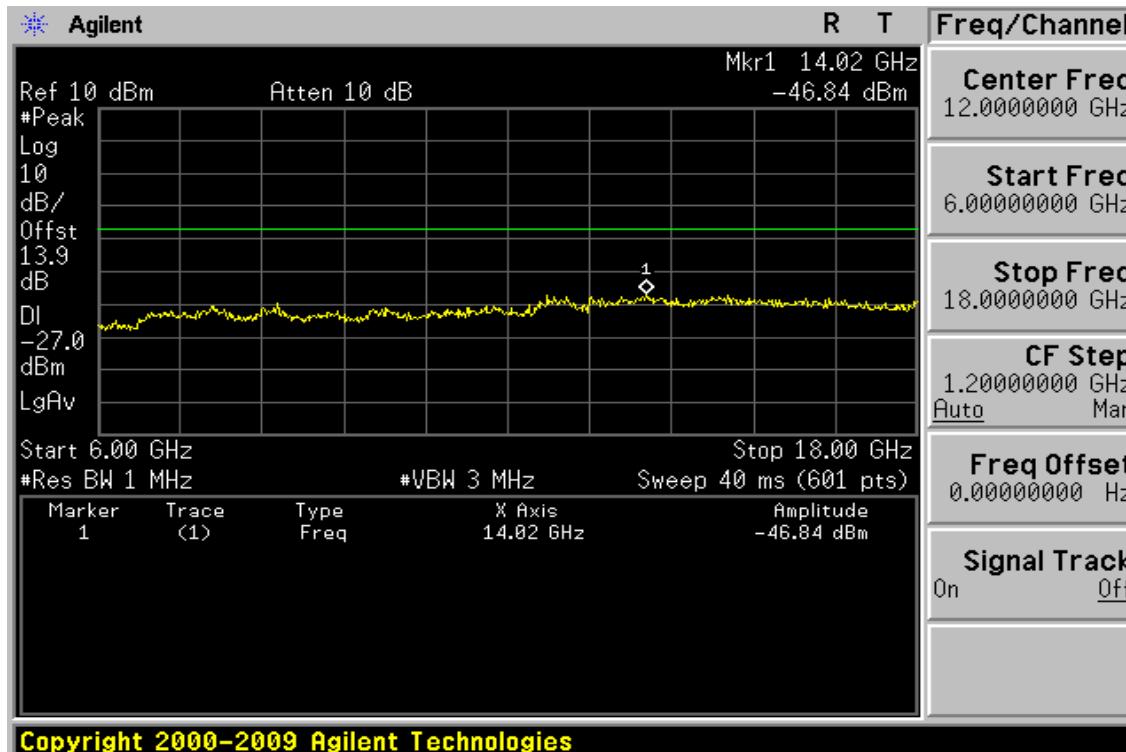


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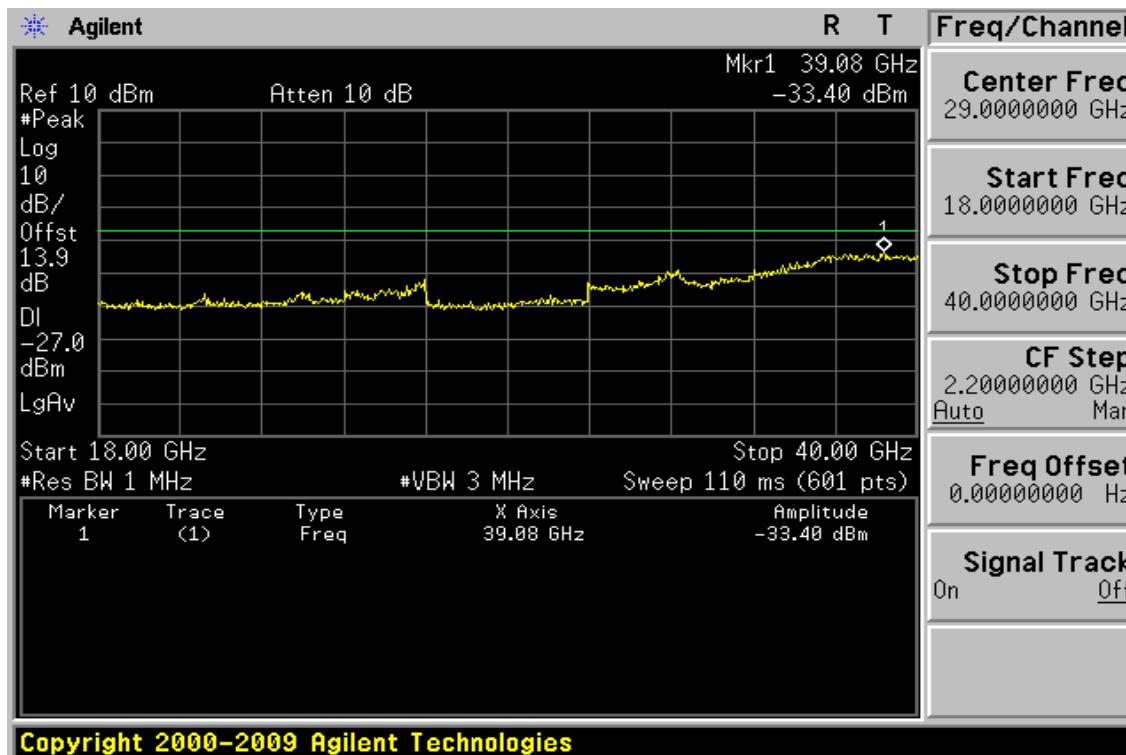
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

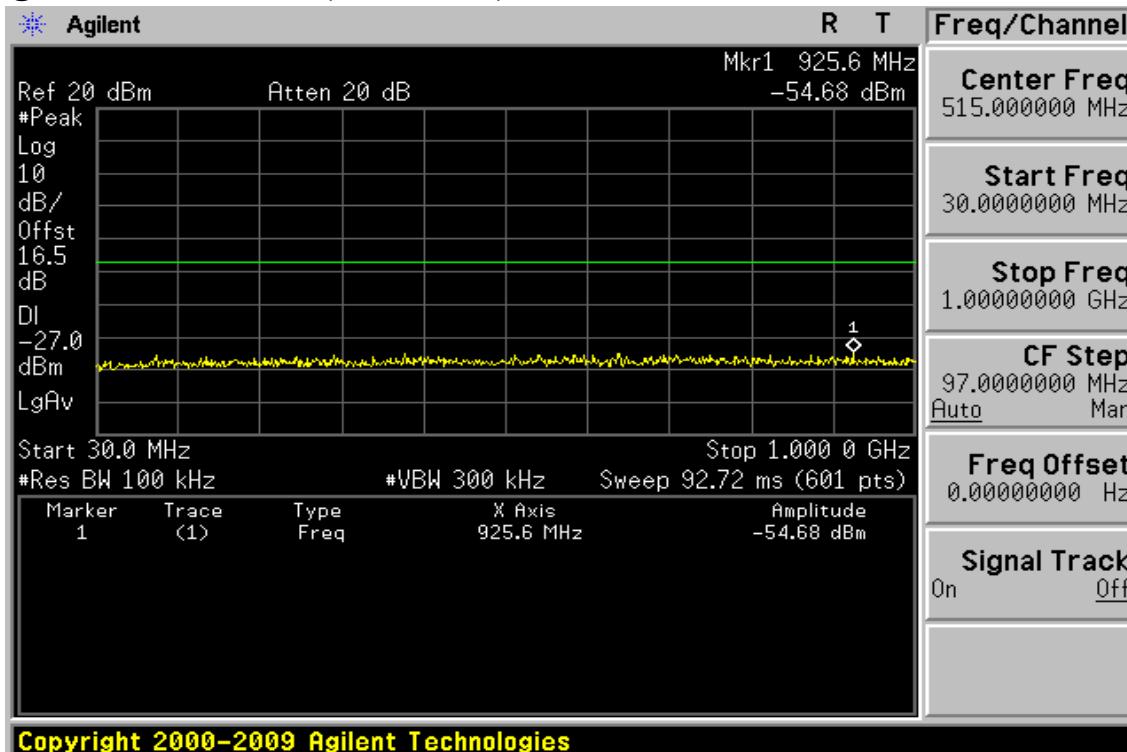


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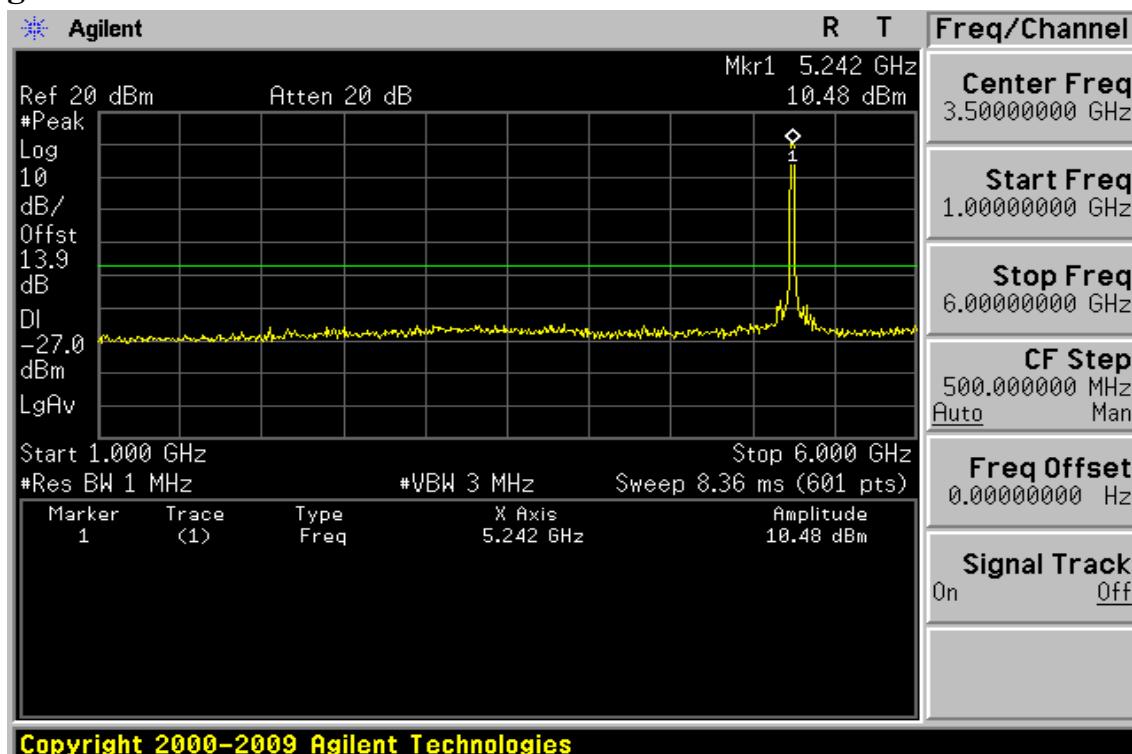
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Ch High 30MHz – 1GHz (5240 MHz)



Ch High 1GHz – 6GHz

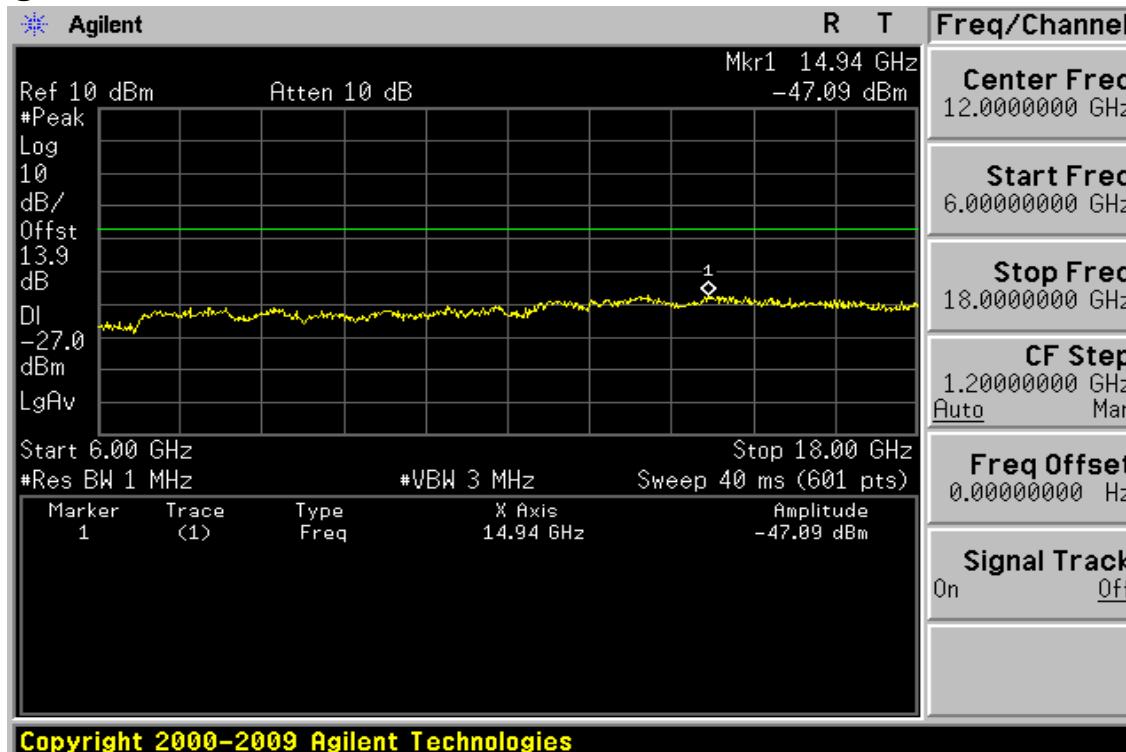


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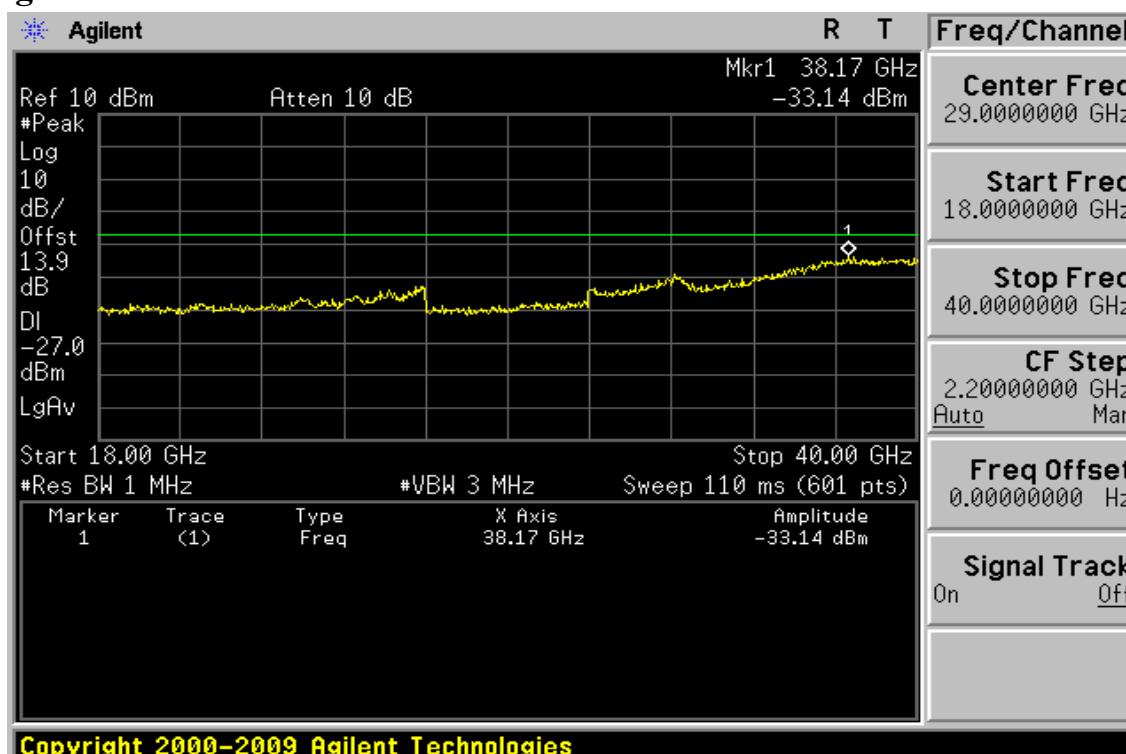
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

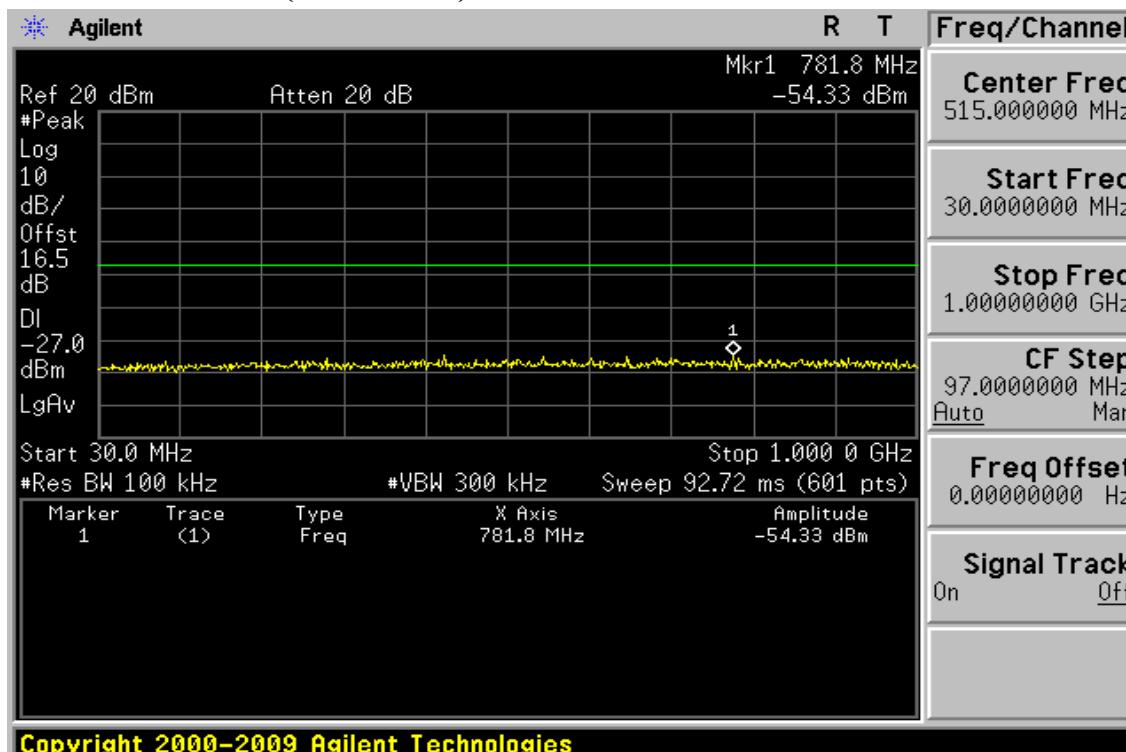


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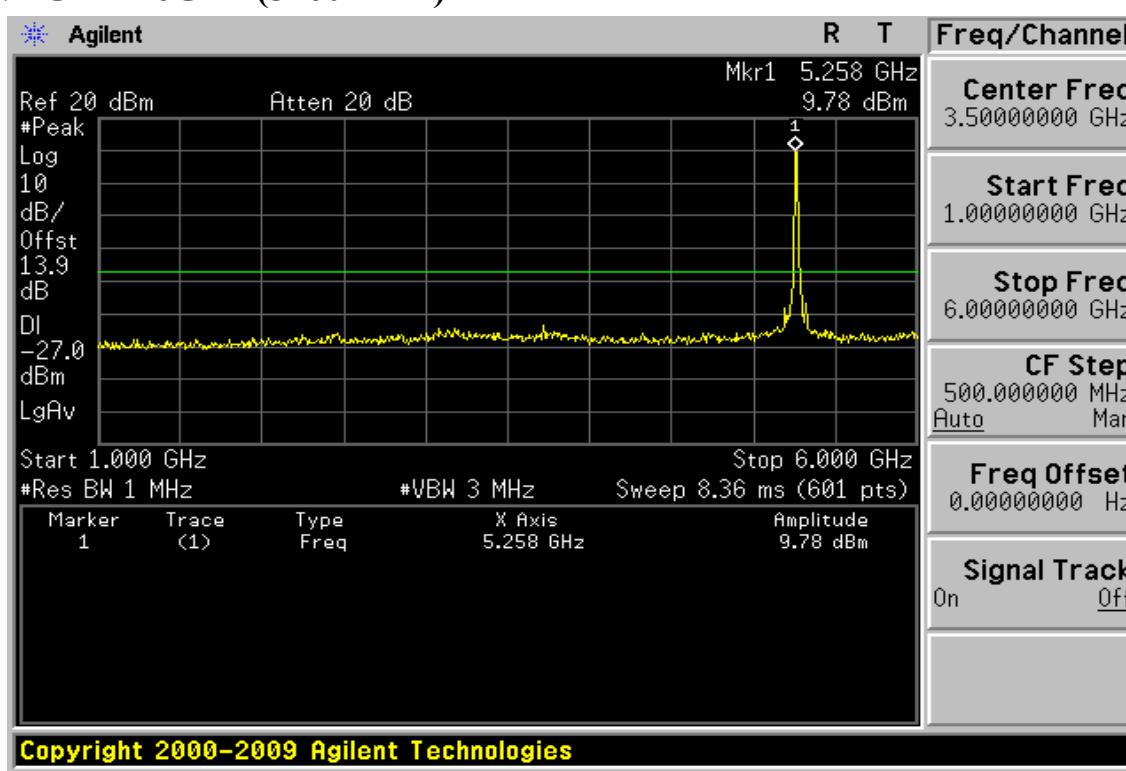
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802.11a, 5250~5350 MHz Ch Low 30MHz – 1GHz (5260 MHz)



Ch Low 1GHz – 6GHz (5260 MHz)

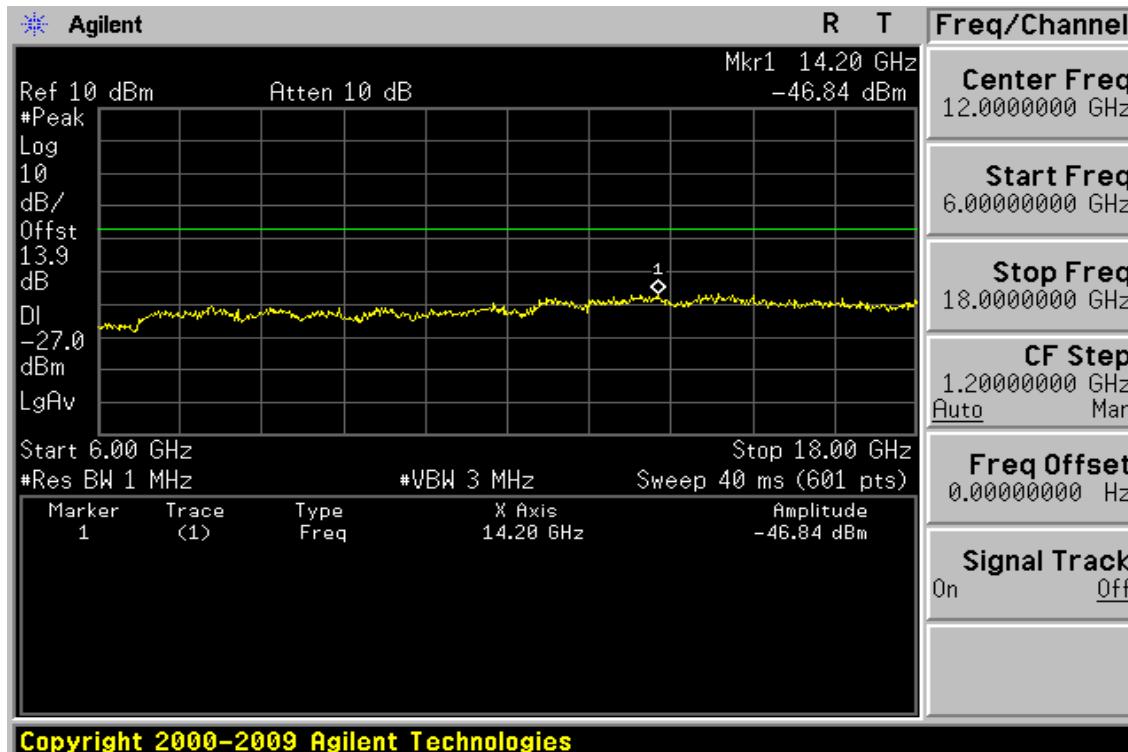


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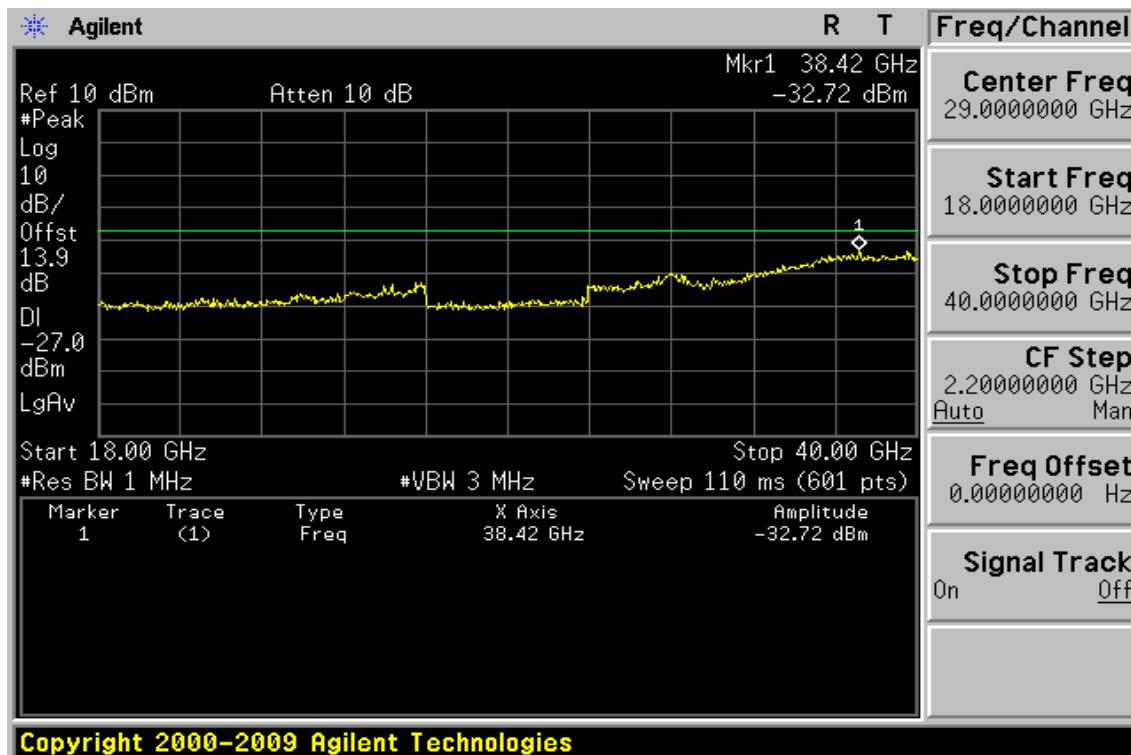
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

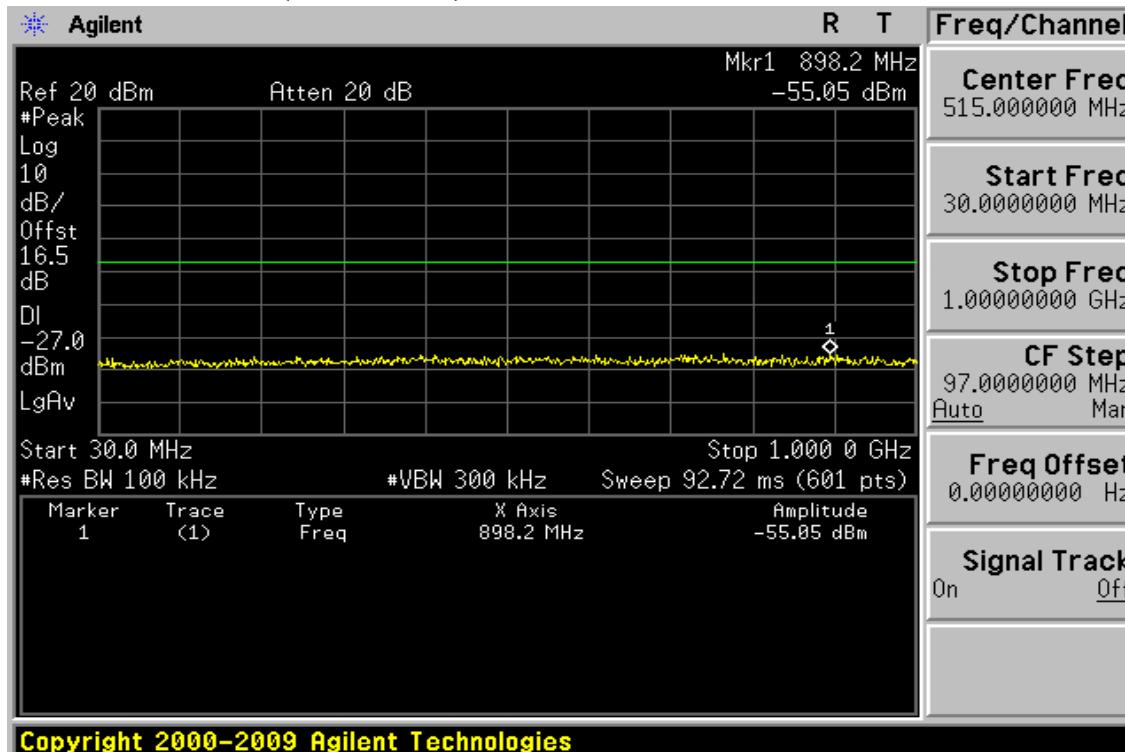


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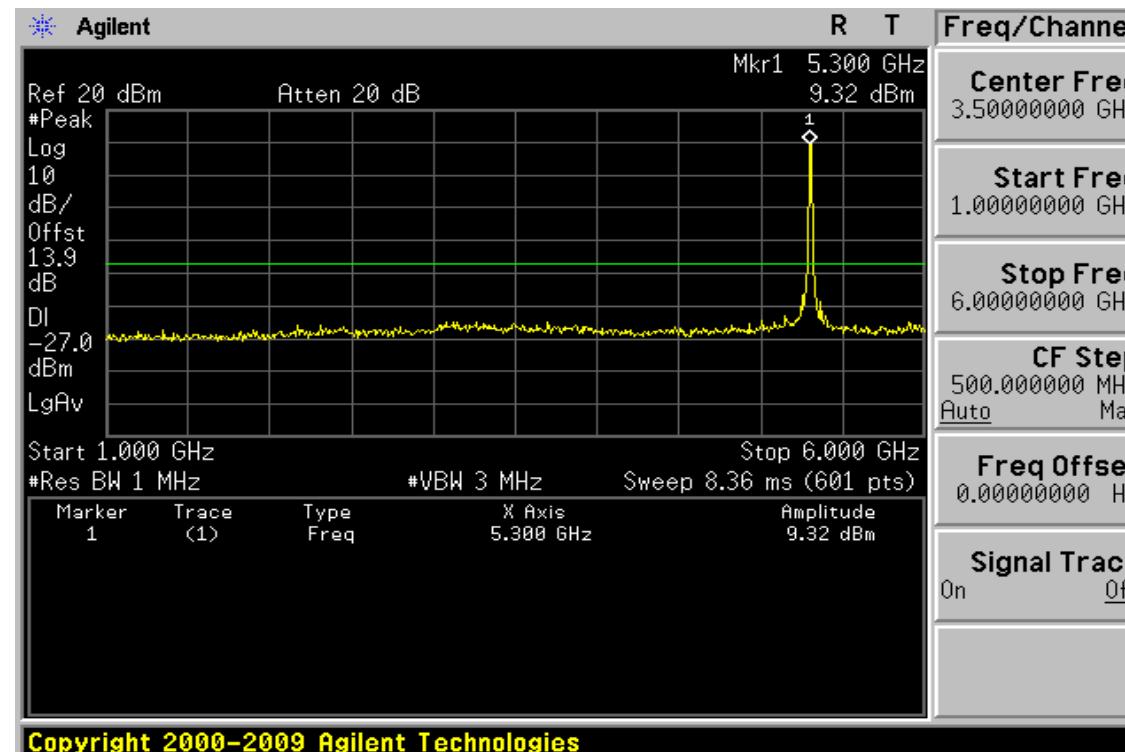
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Ch Mid 30MHz – 1GHz (5300 MHz)



Ch Mid 1GHz – 6GHz

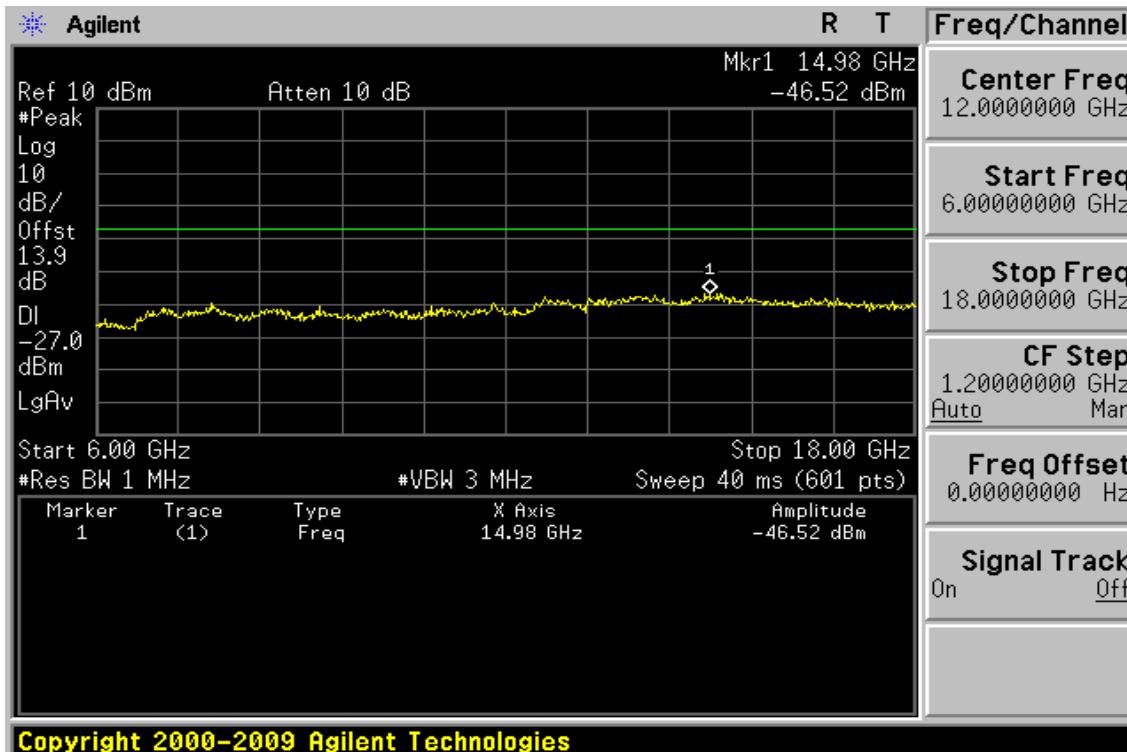


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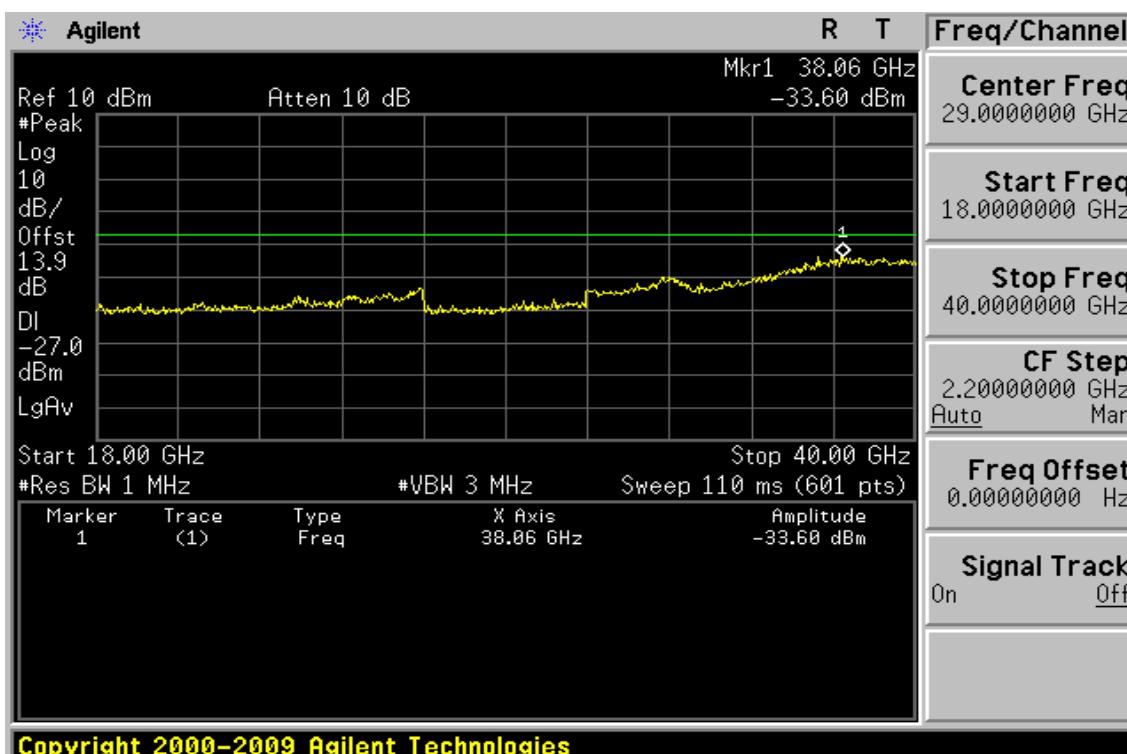
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

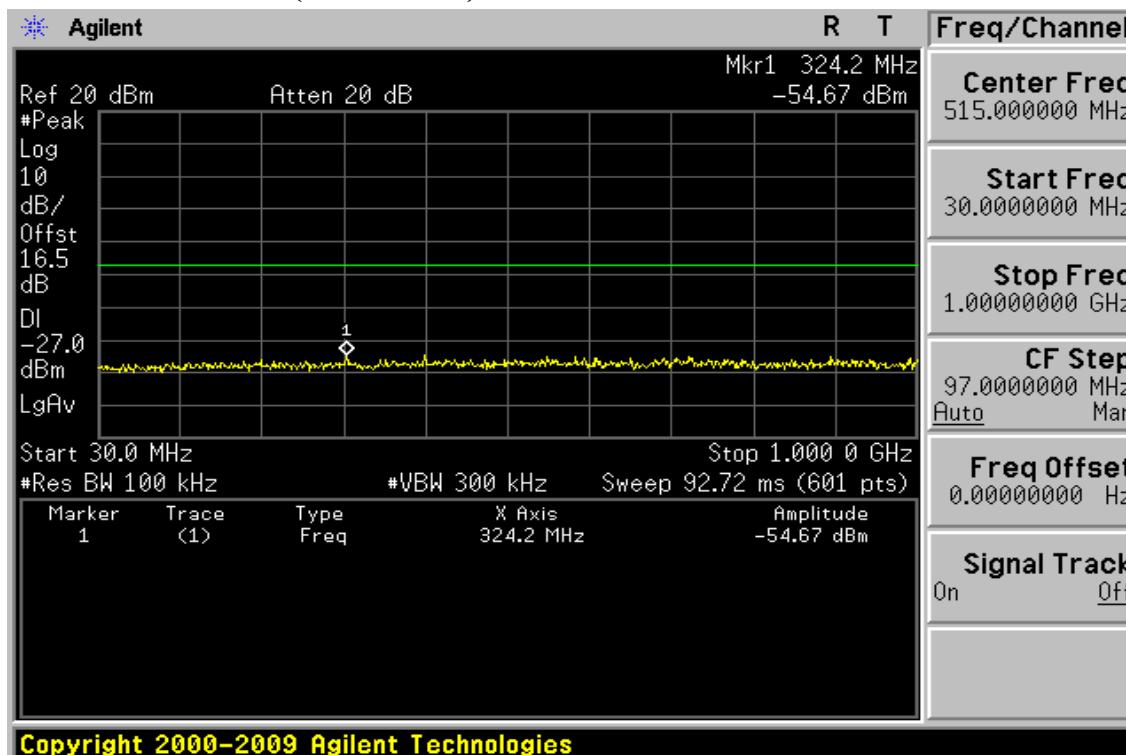


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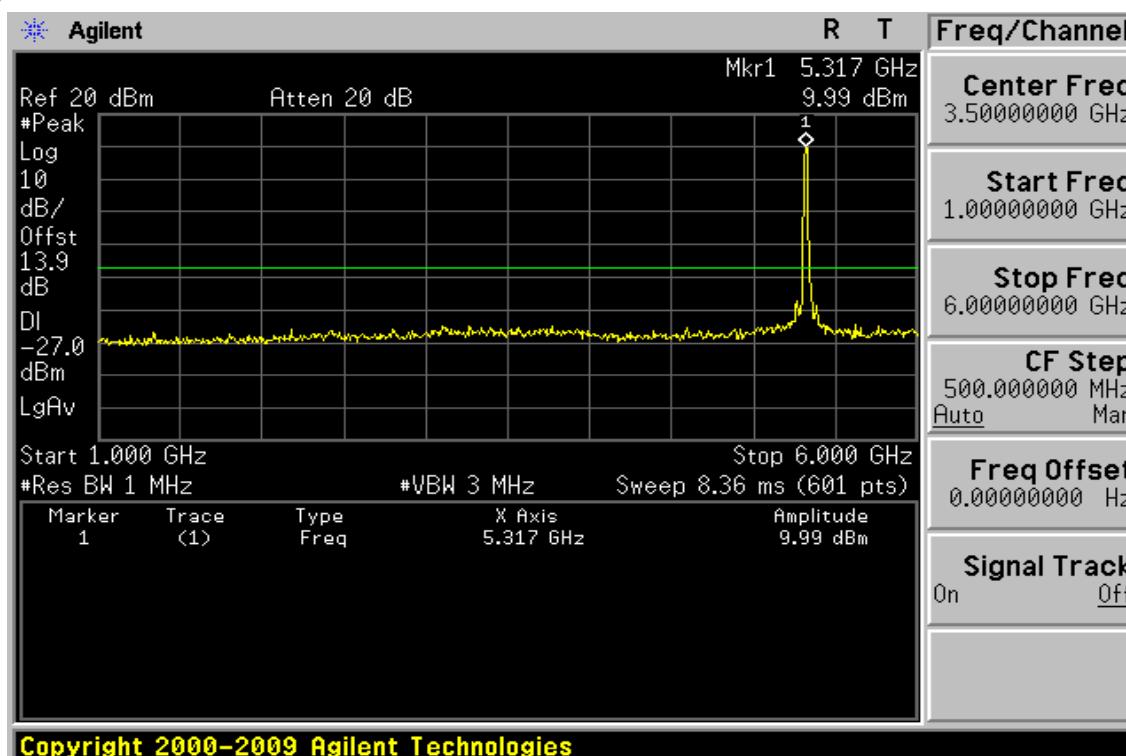
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Ch High 30MHz – 1GHz (5320 MHz)



Ch High 1GHz – 6GHz

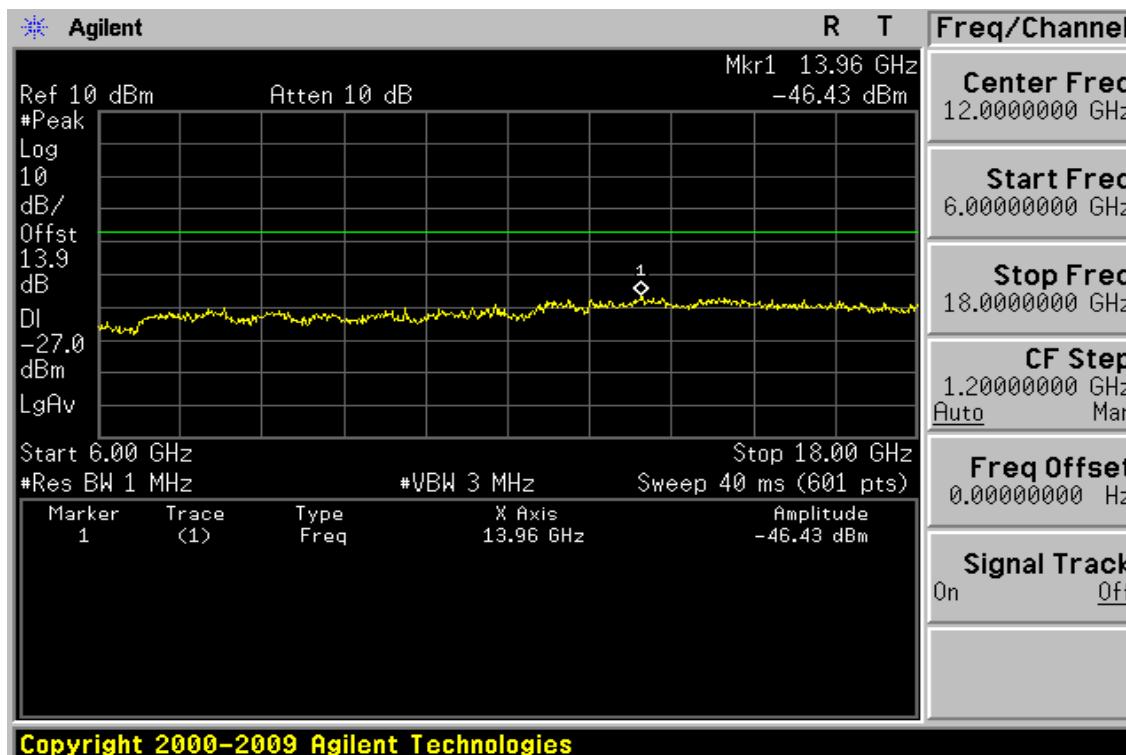


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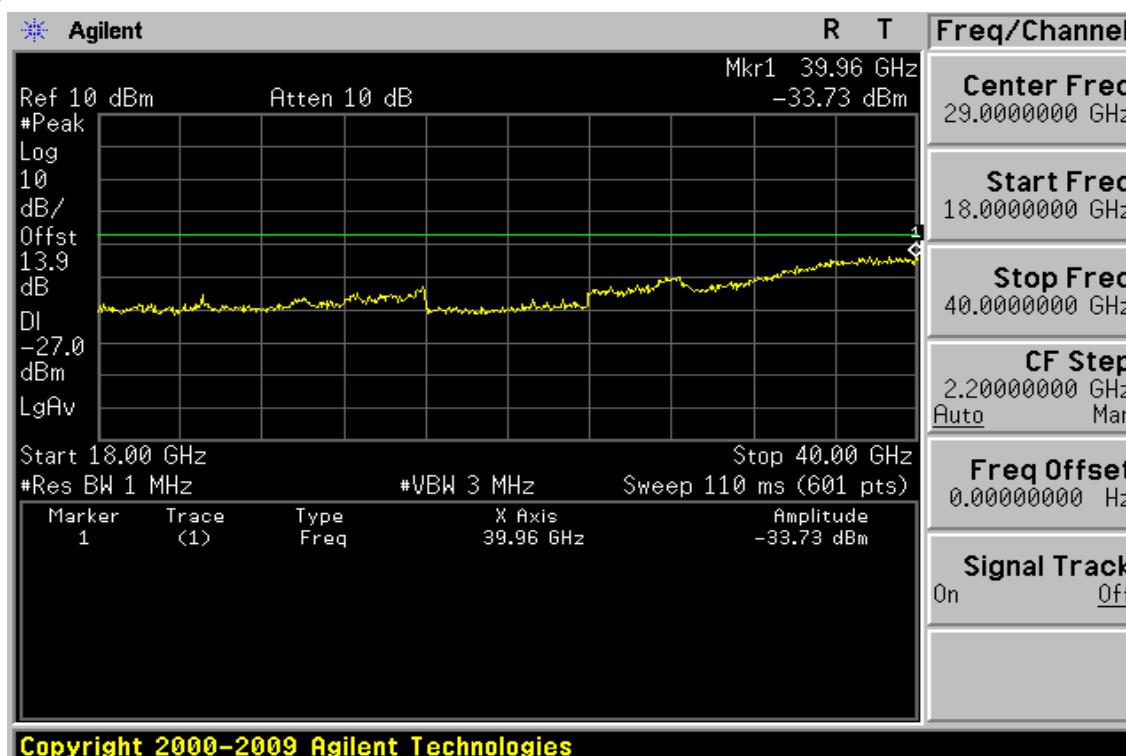
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



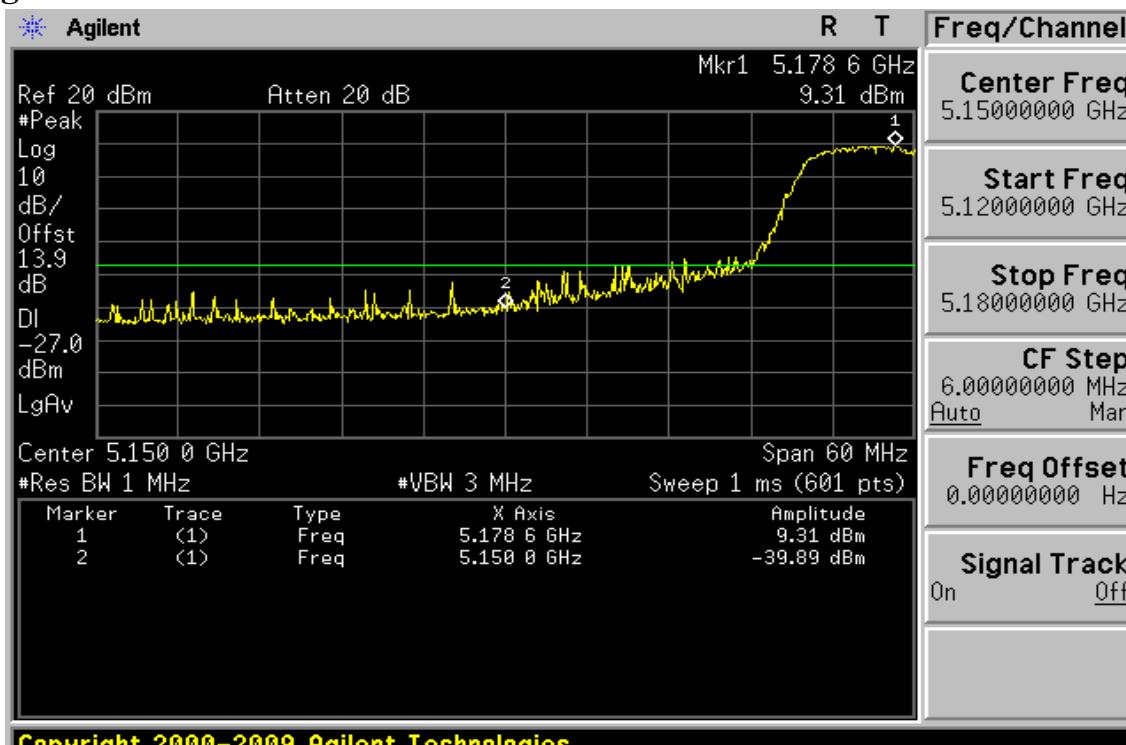
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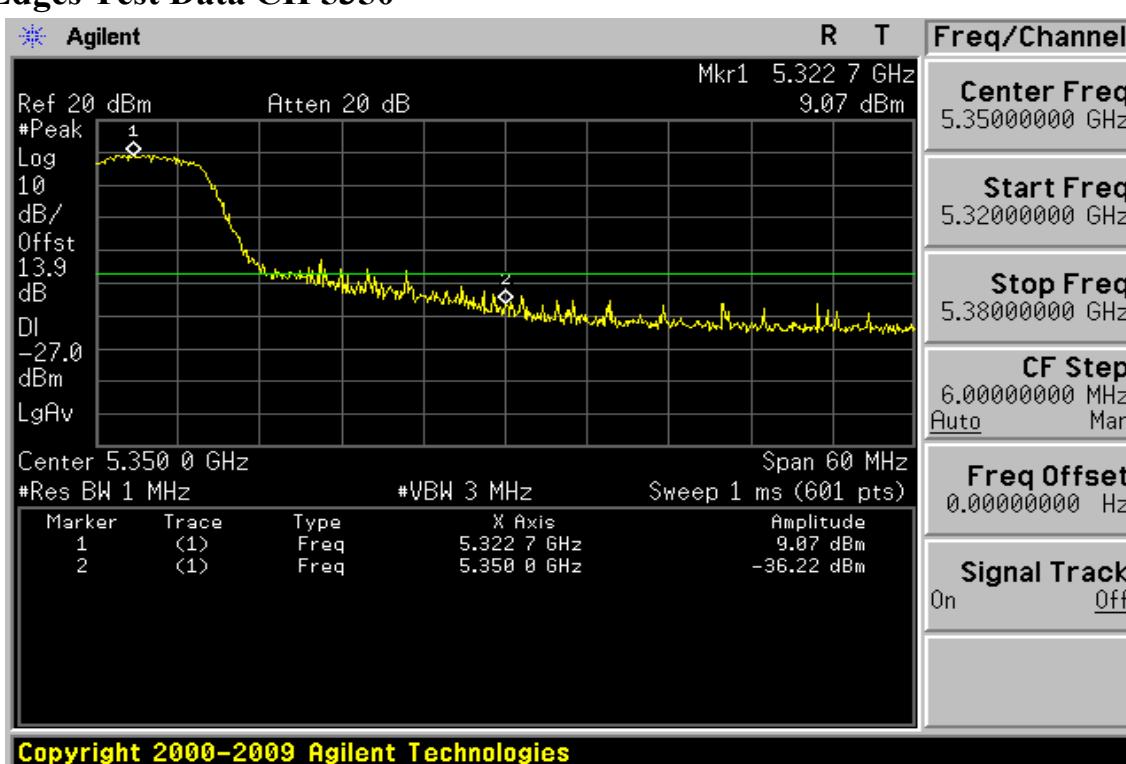
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802.11a 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



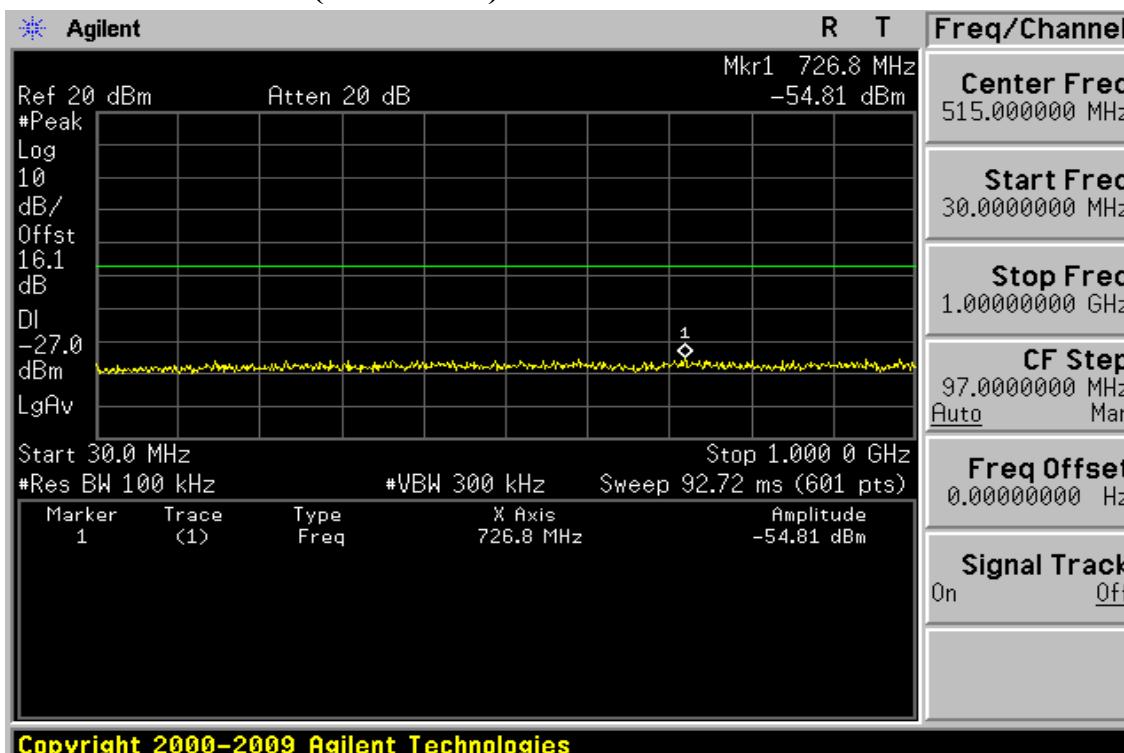
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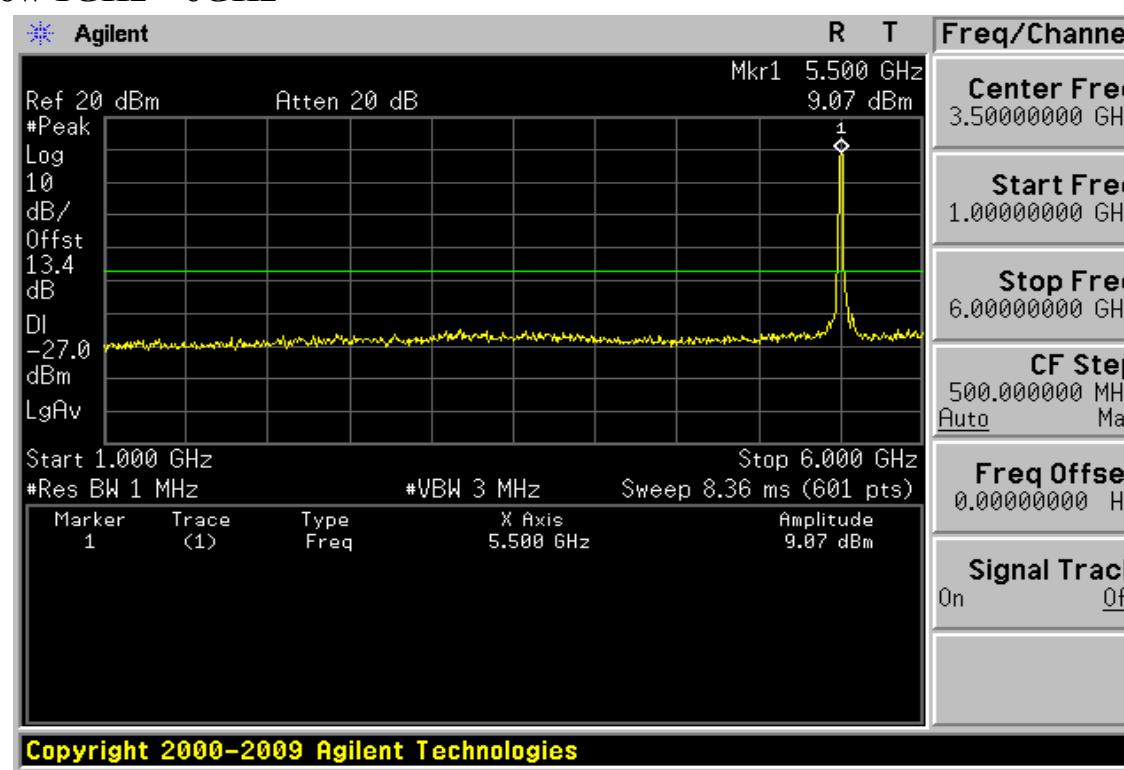
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802.11a, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5500 MHz)



Ch Low 1GHz – 6GHz

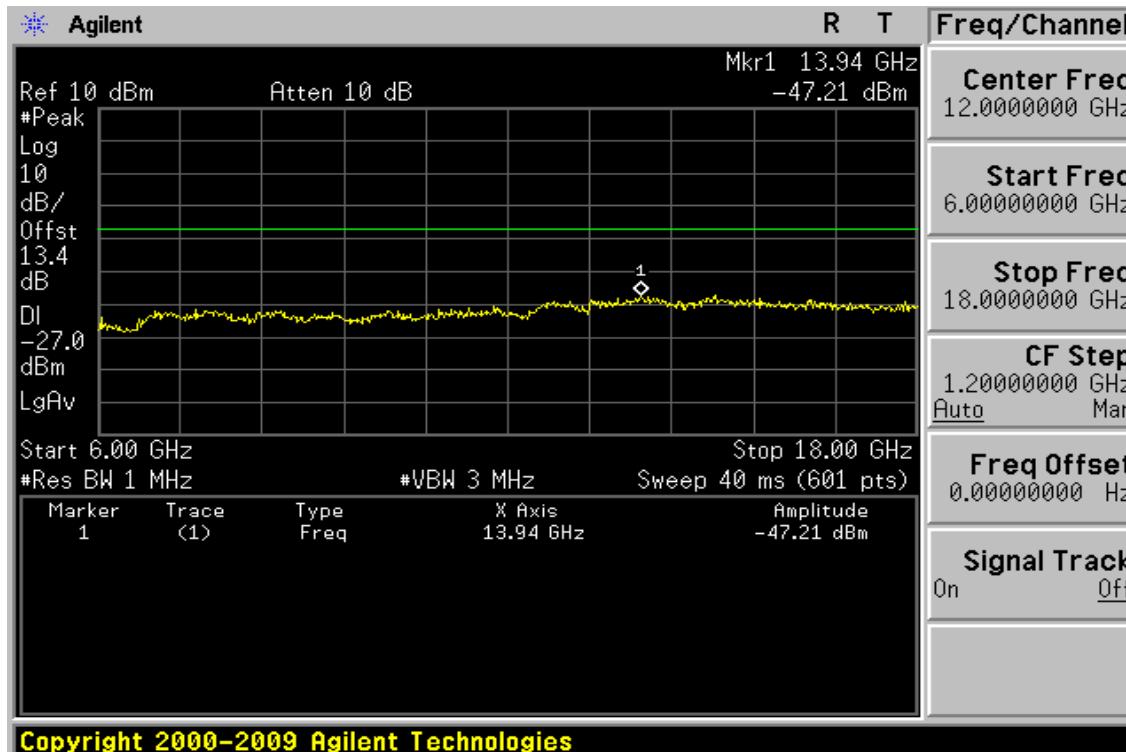


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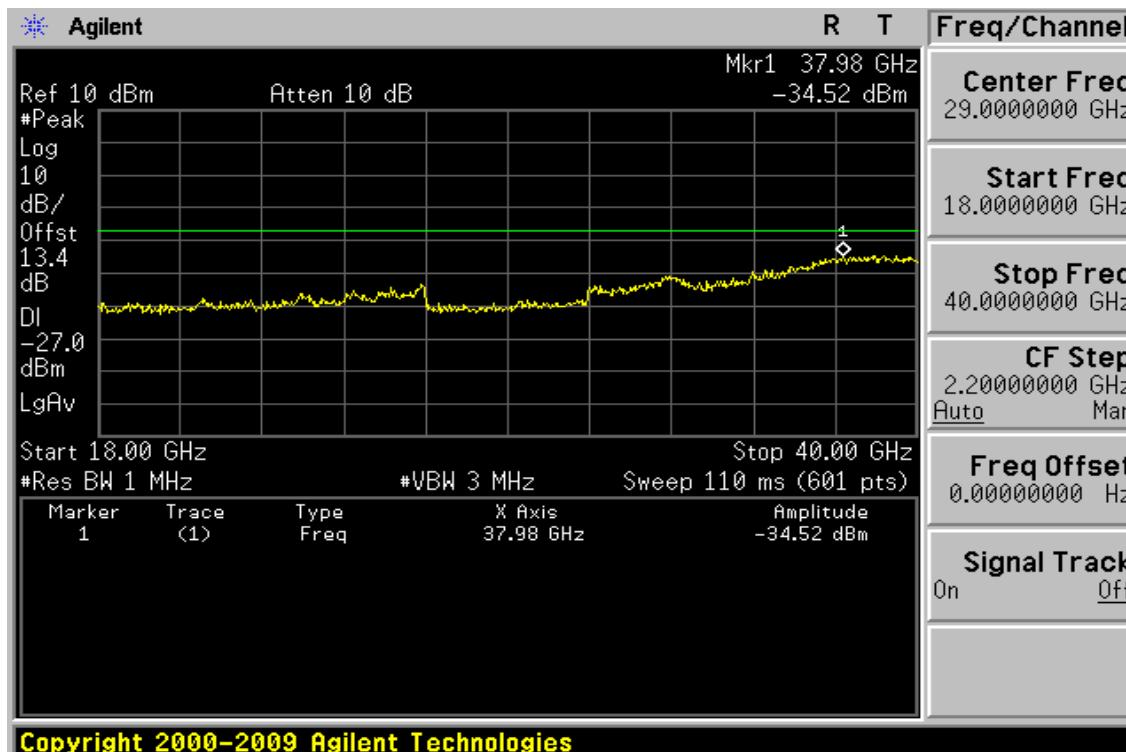
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

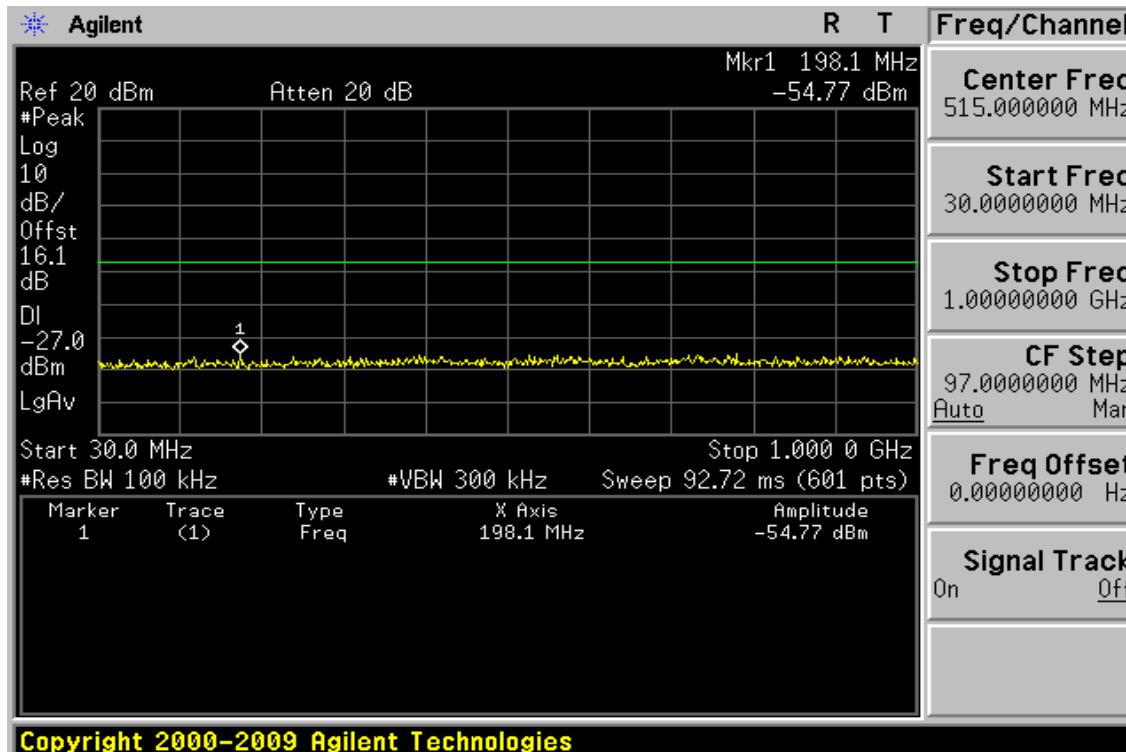


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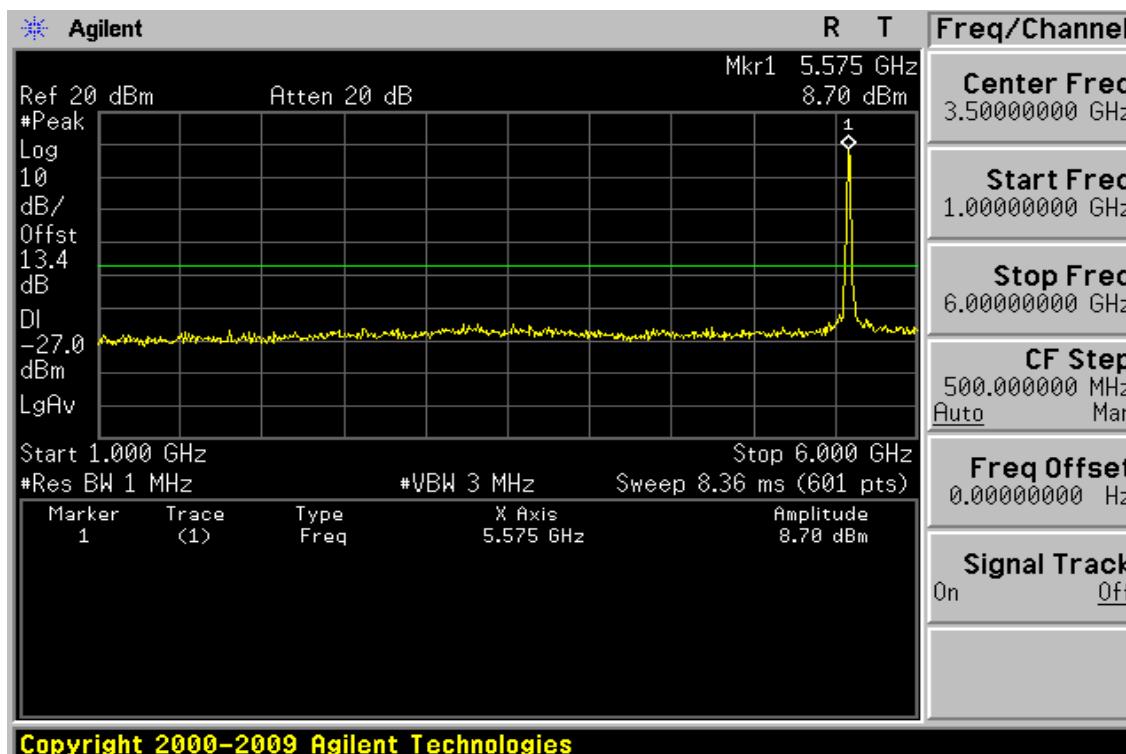
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Ch Mid 30MHz – 1GHz (5580 MHz)



Ch Mid 1GHz – 6GHz

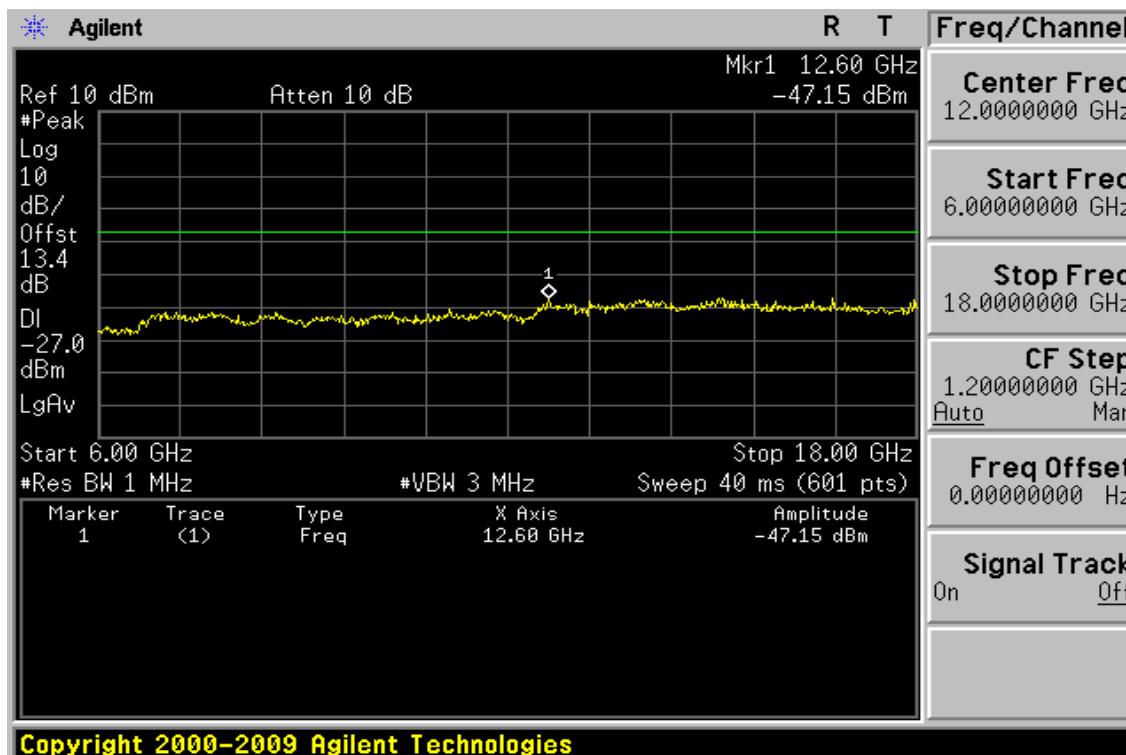


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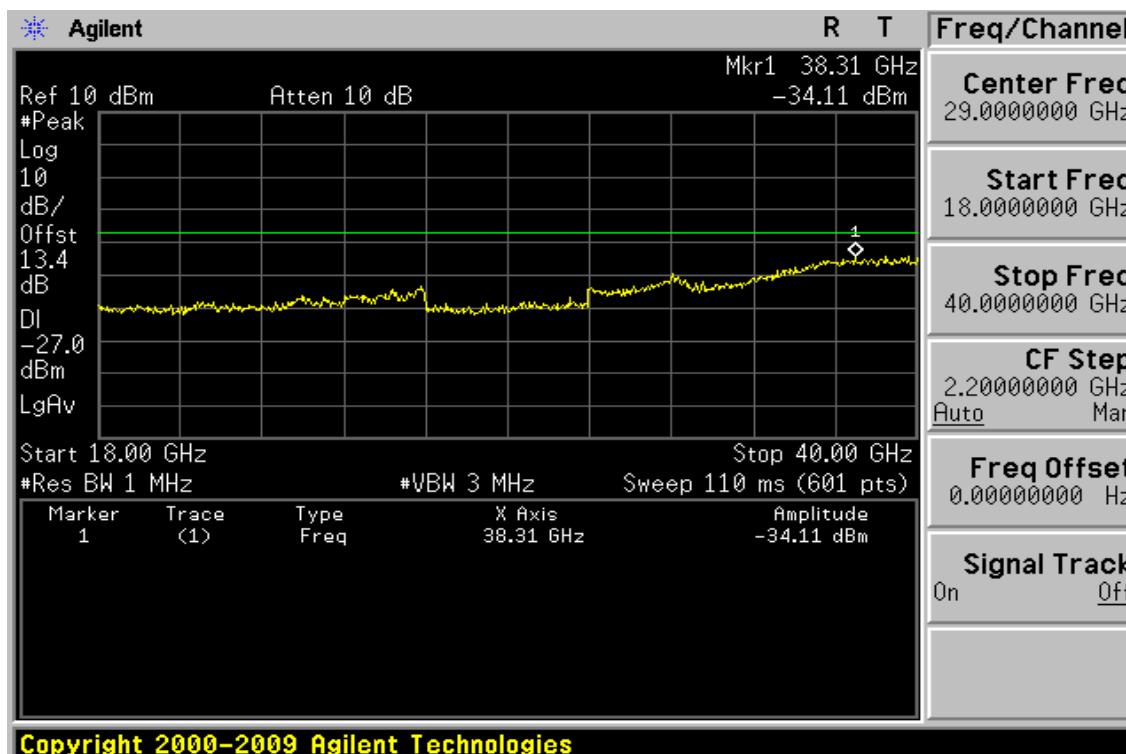
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

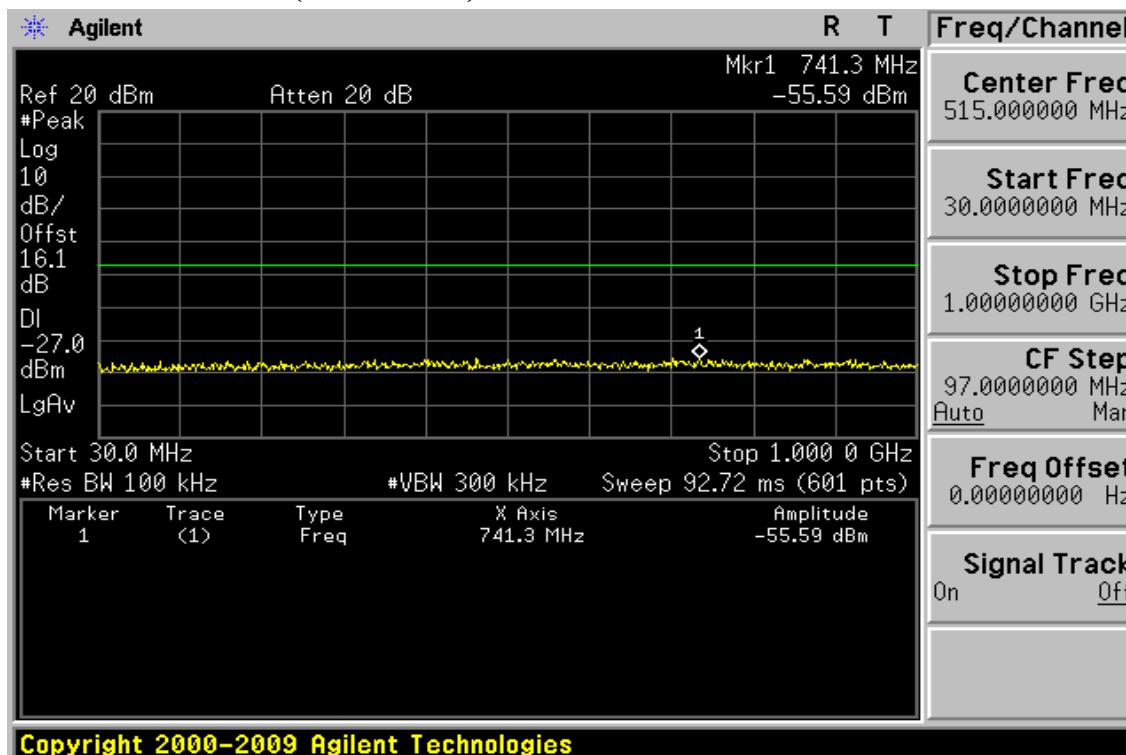


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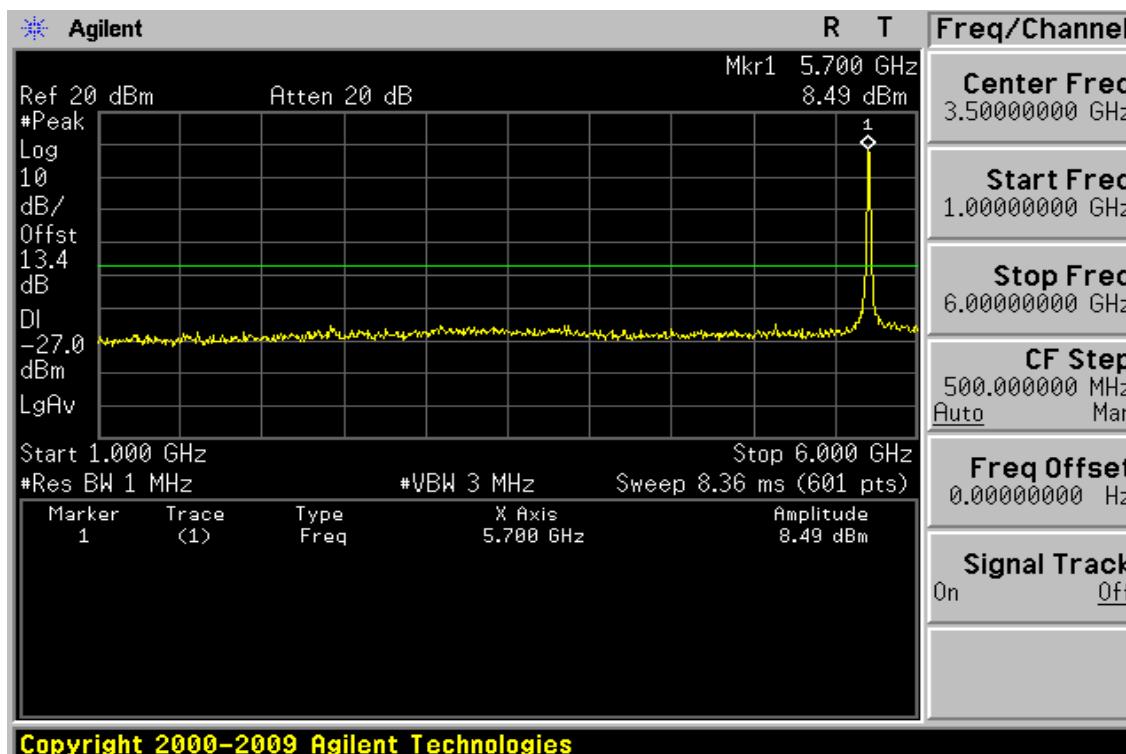
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Ch High 30MHz – 1GHz (5700 MHz)



Ch High 1GHz – 6GHz

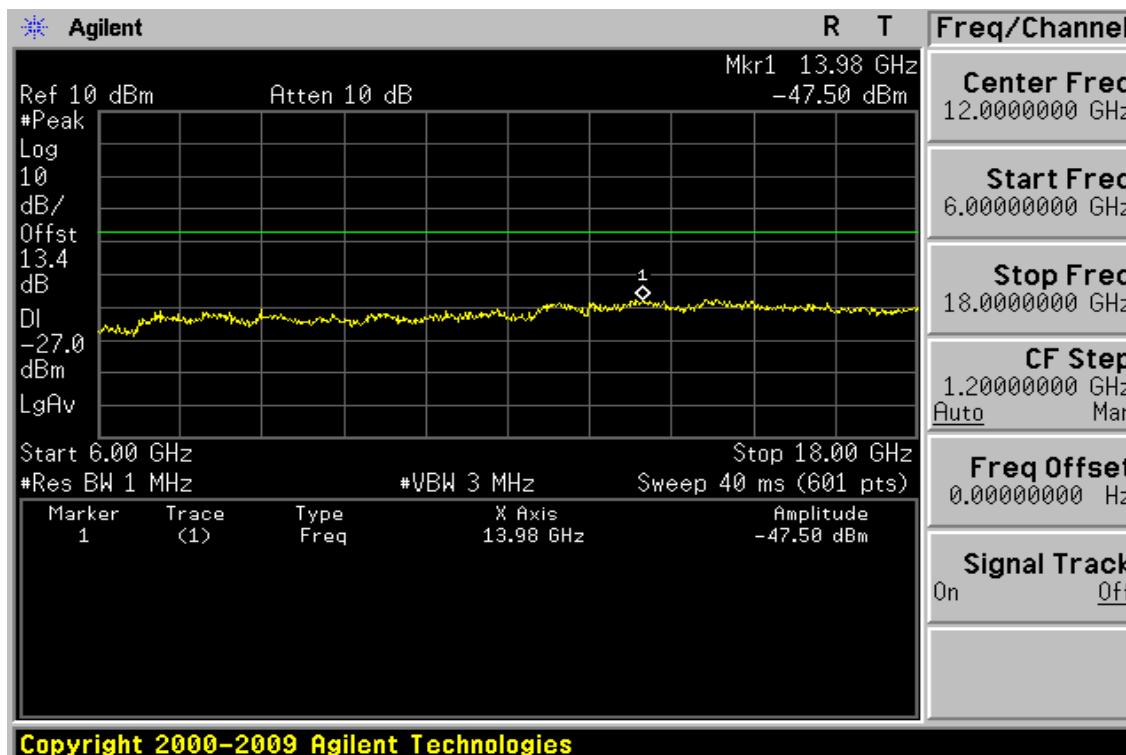


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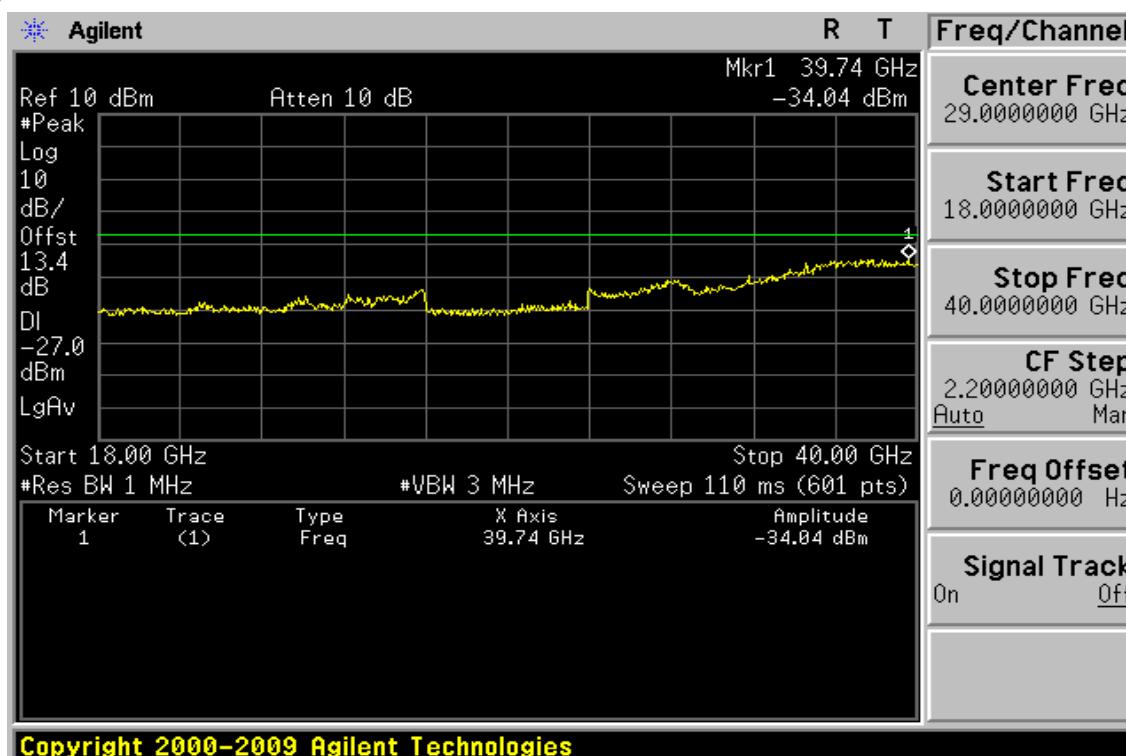
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

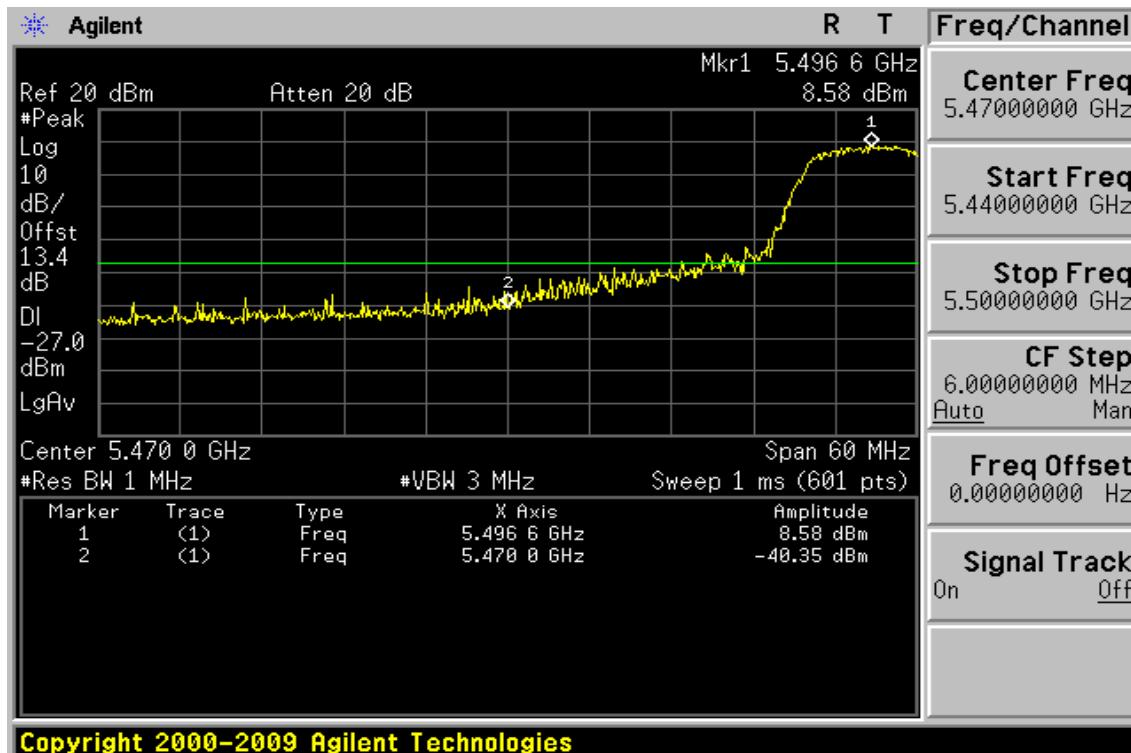


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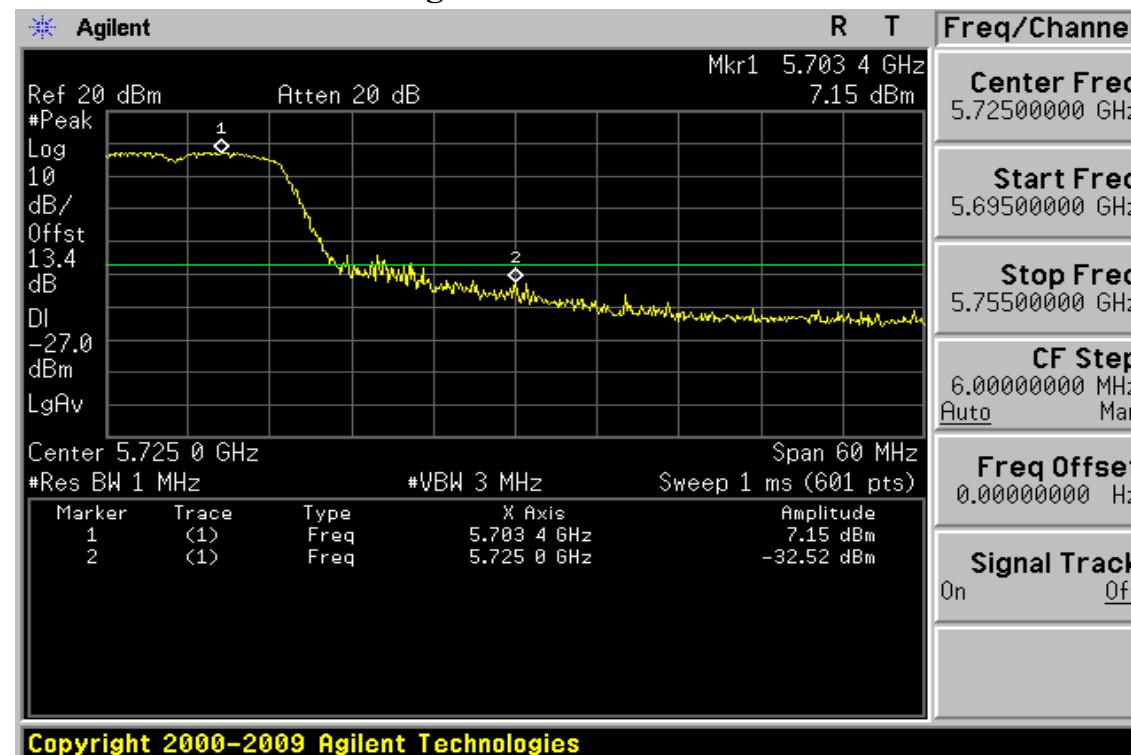
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802.11a 5470~5725 MHz Band Edges Test Data CH 5500



802.11a 5470~5725 MHz Band Edges Test Data CH 5700



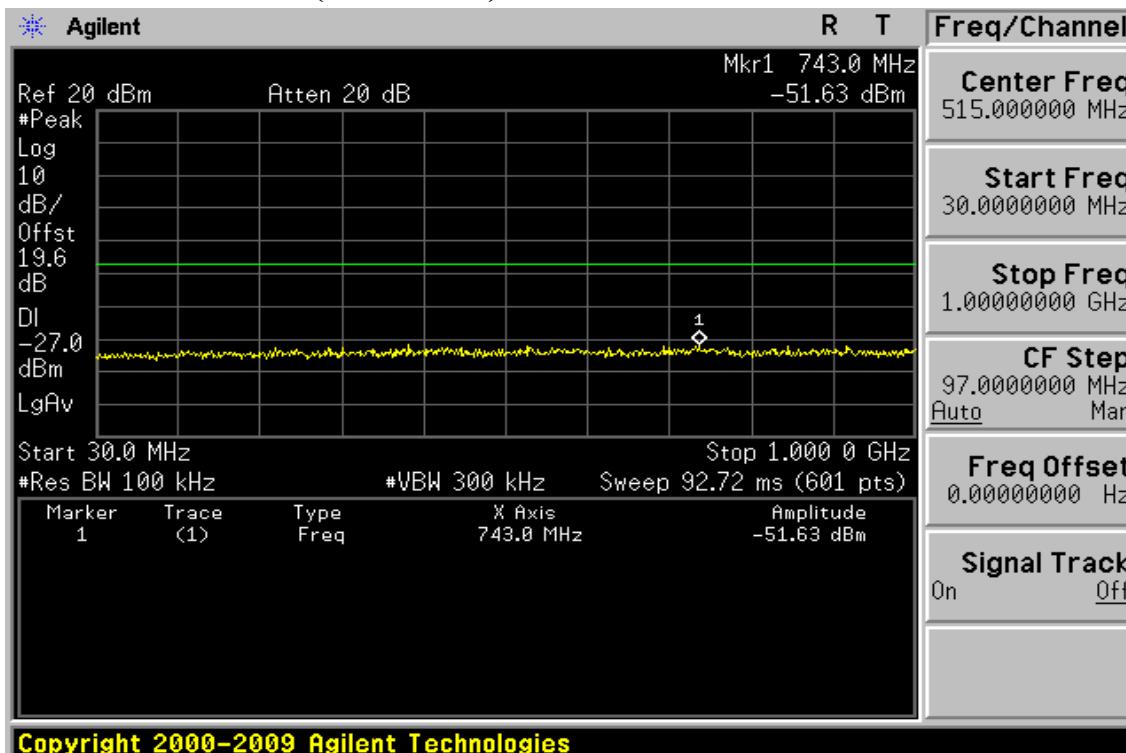
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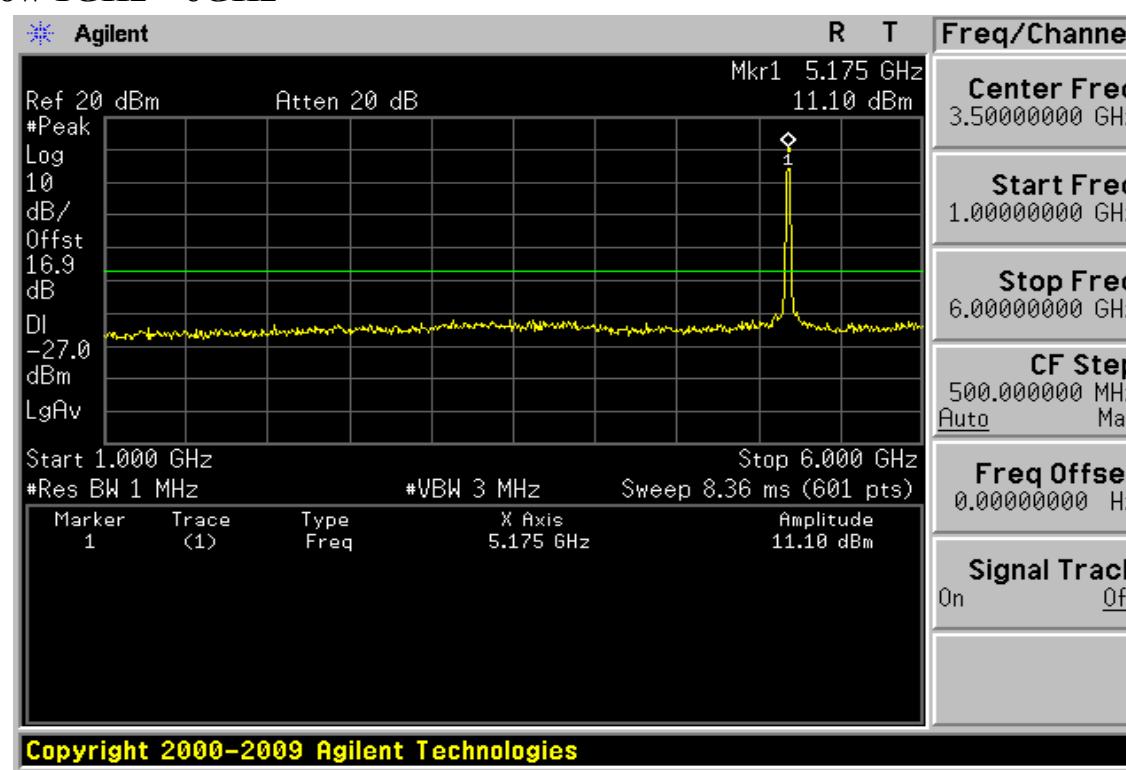
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802.11n HT20, 5150~5250 MHz

Ch Low 30MHz – 1GHz (5180 MHz)



Ch Low 1GHz – 6GHz

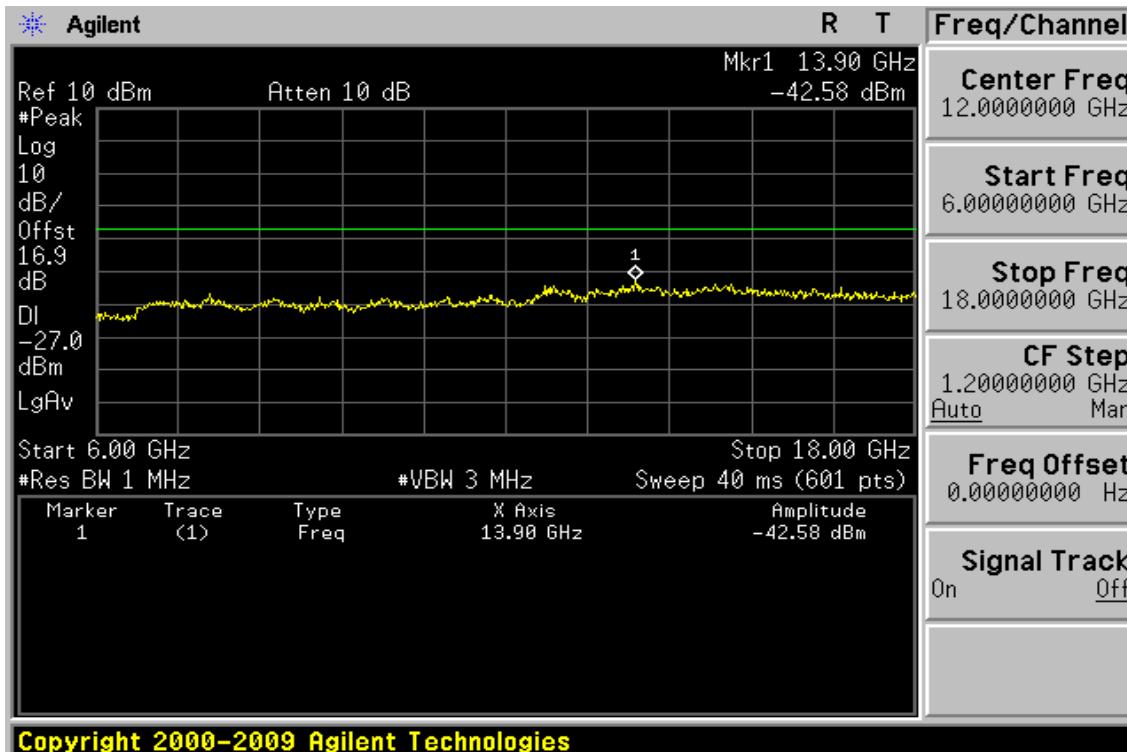


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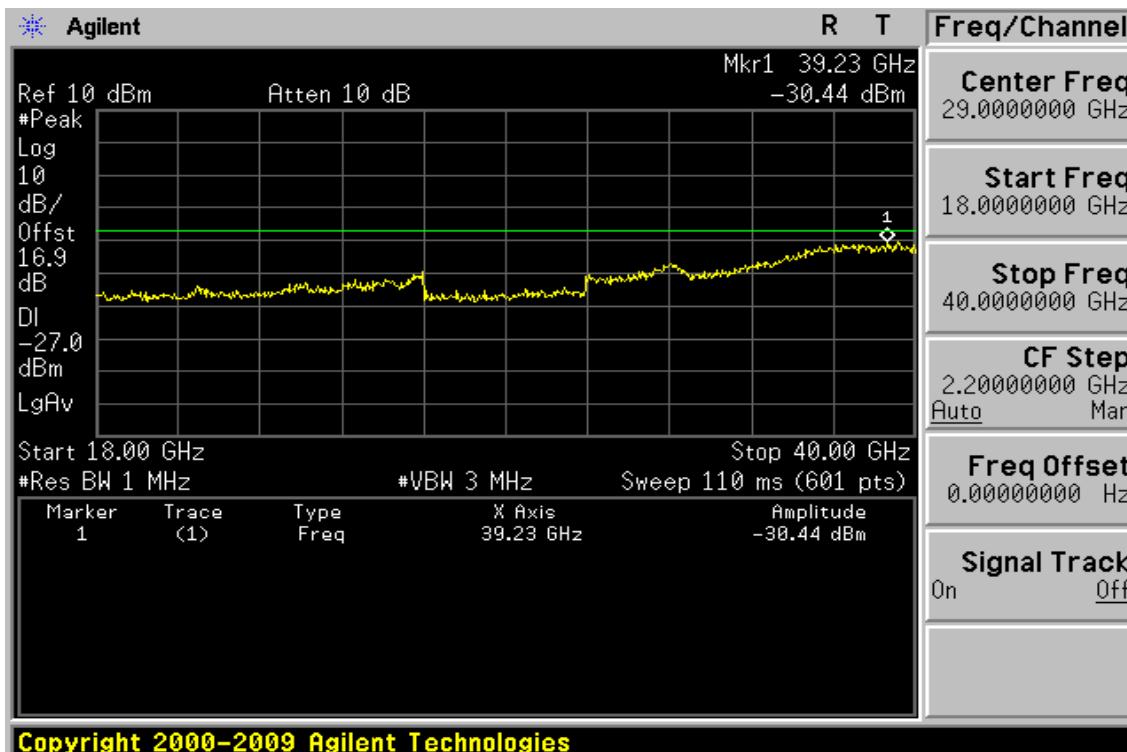
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

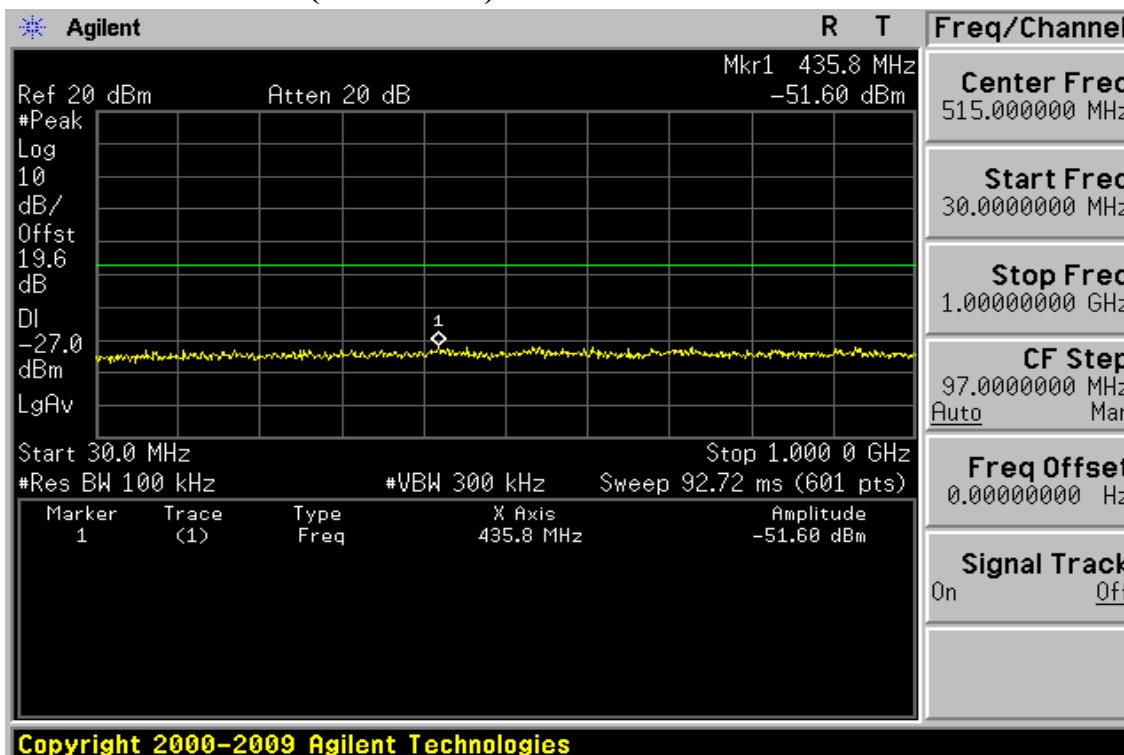


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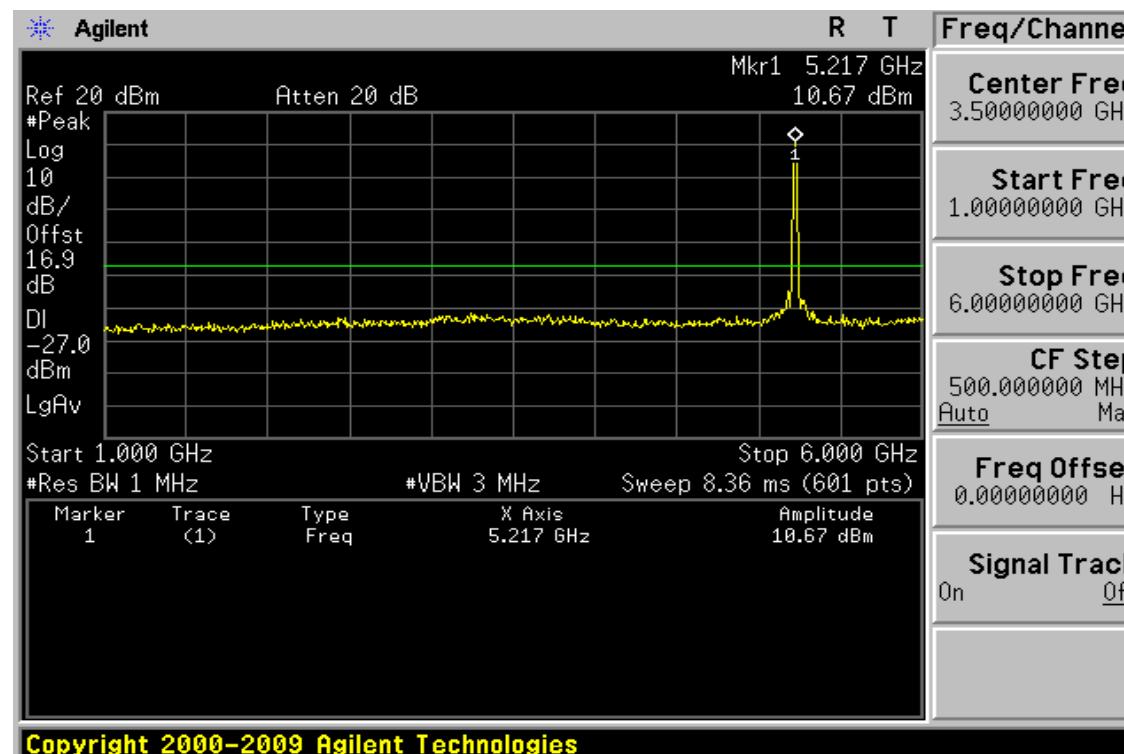
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Ch Mid 30MHz – 1GHz (5220 MHz)



Ch Mid 1GHz – 6GHz

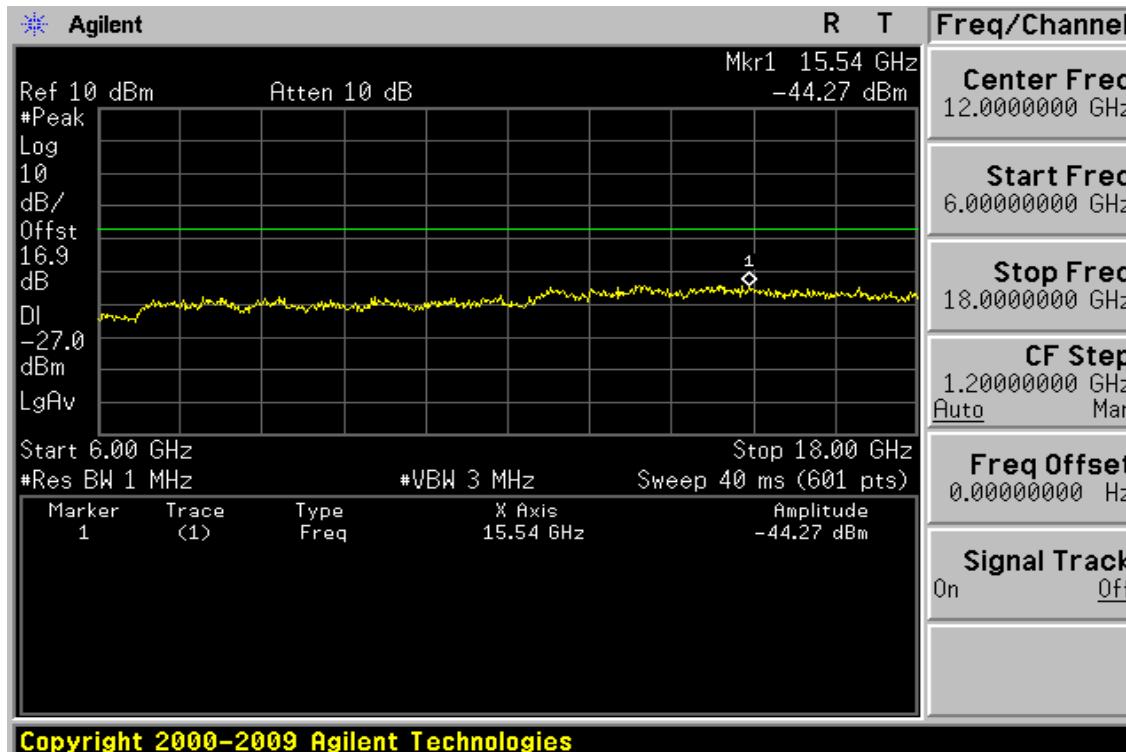


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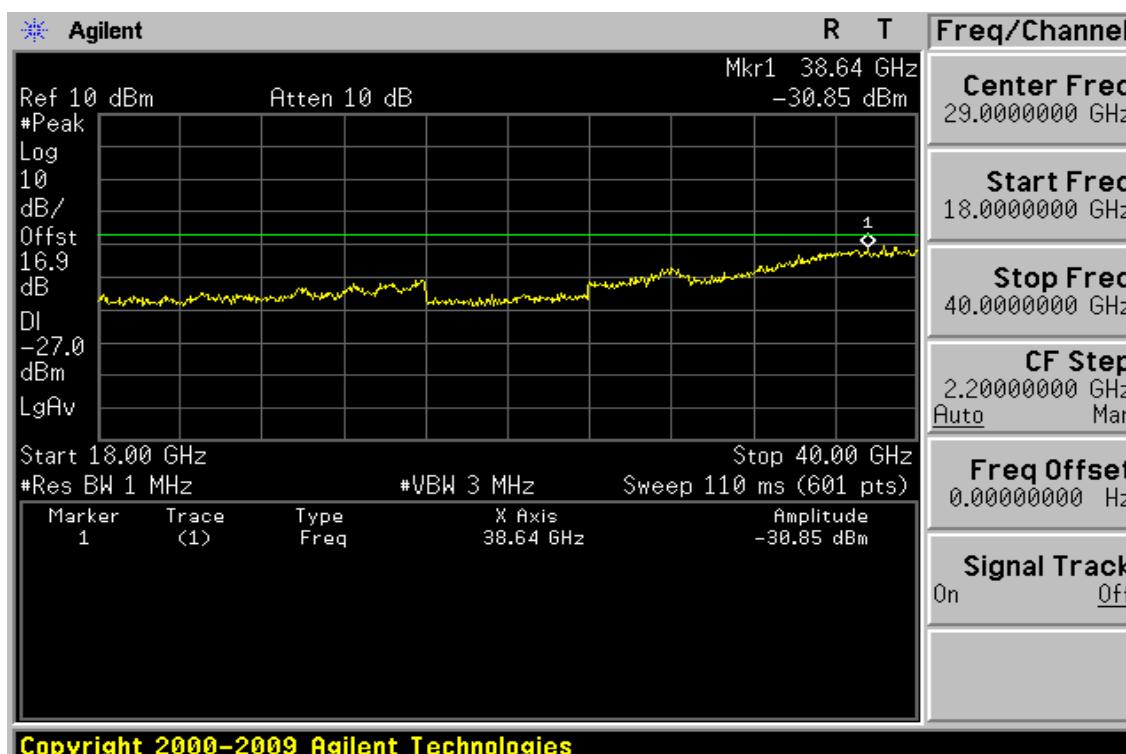
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

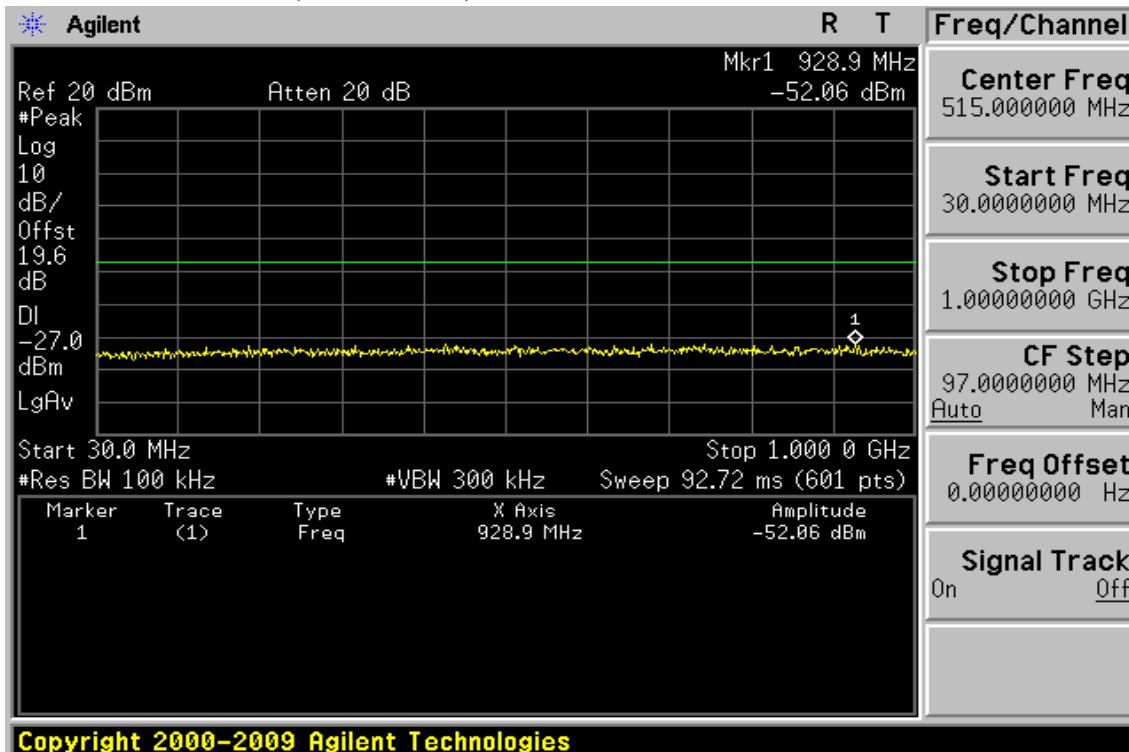


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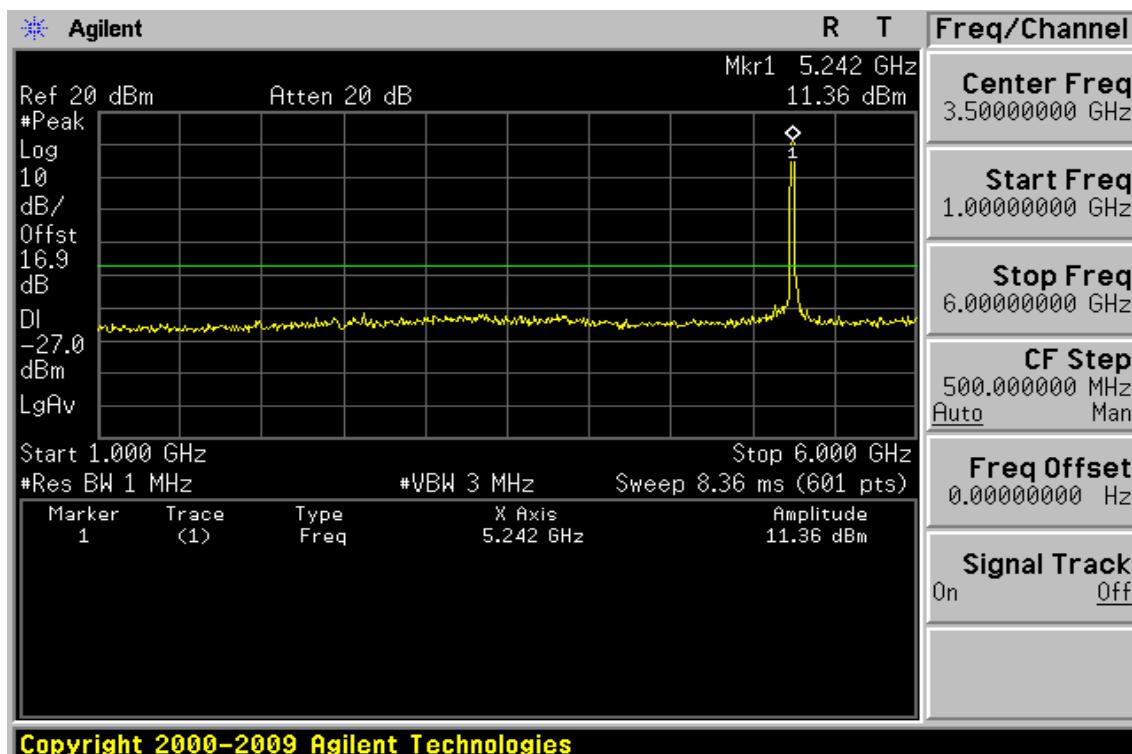
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Ch High 30MHz – 1GHz (5240 MHz)



Ch High 1GHz – 6GHz

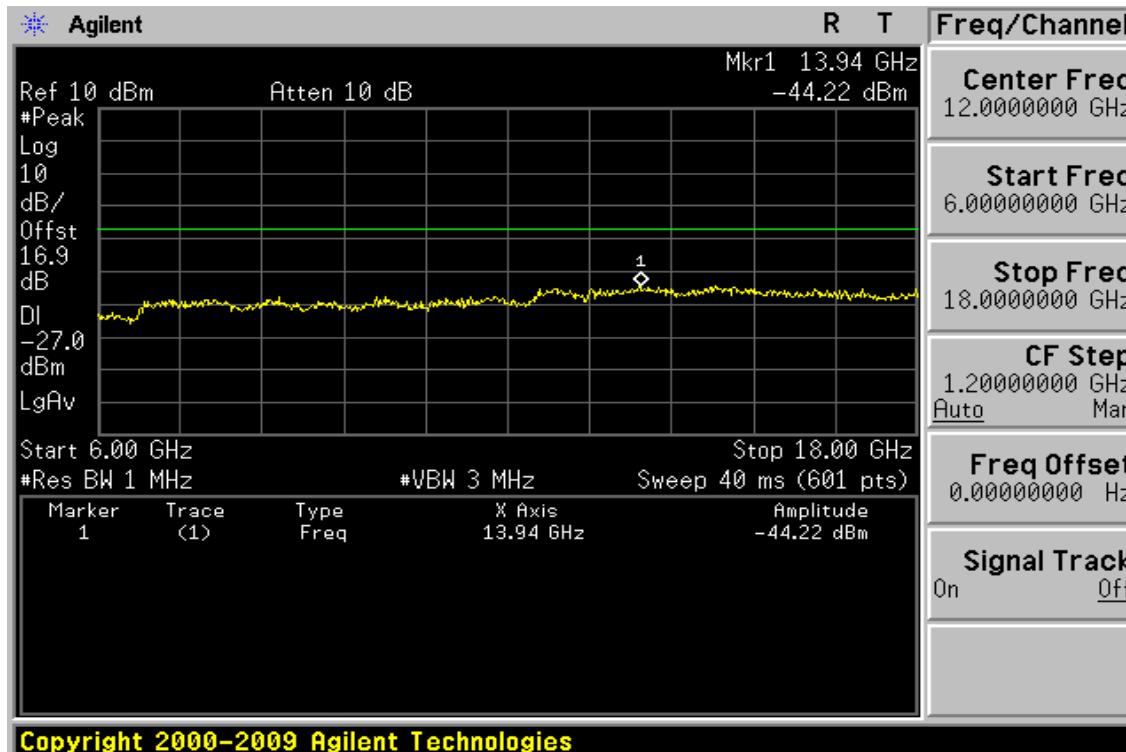


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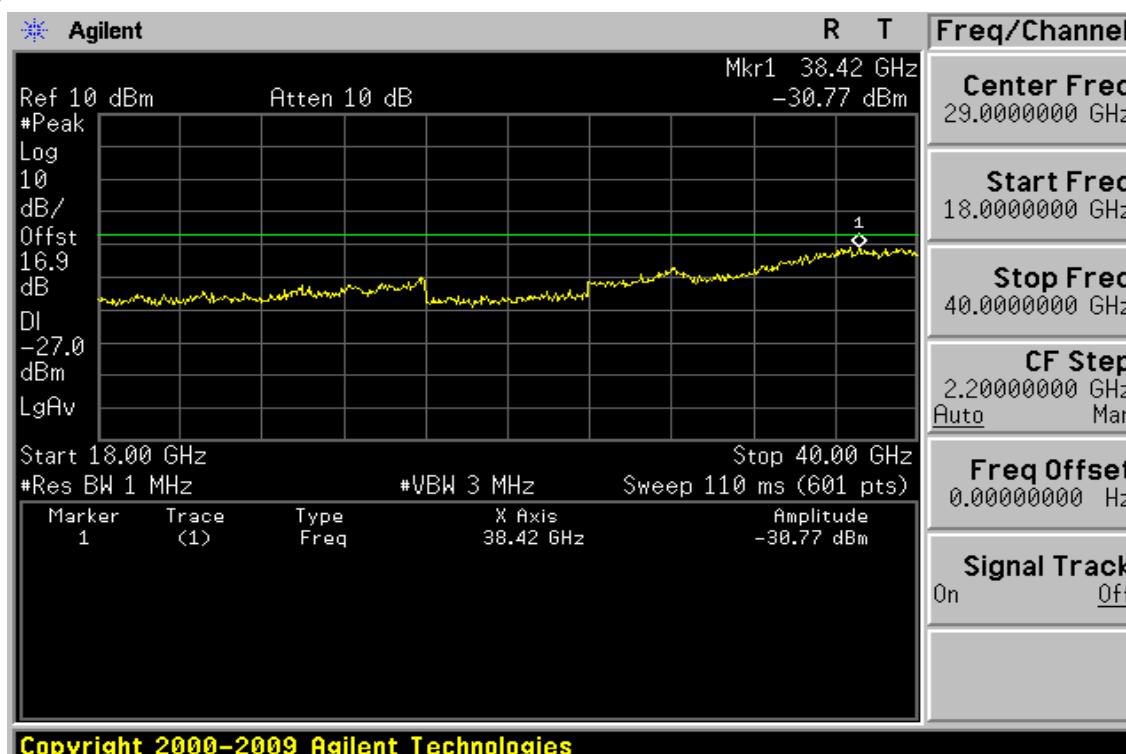
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

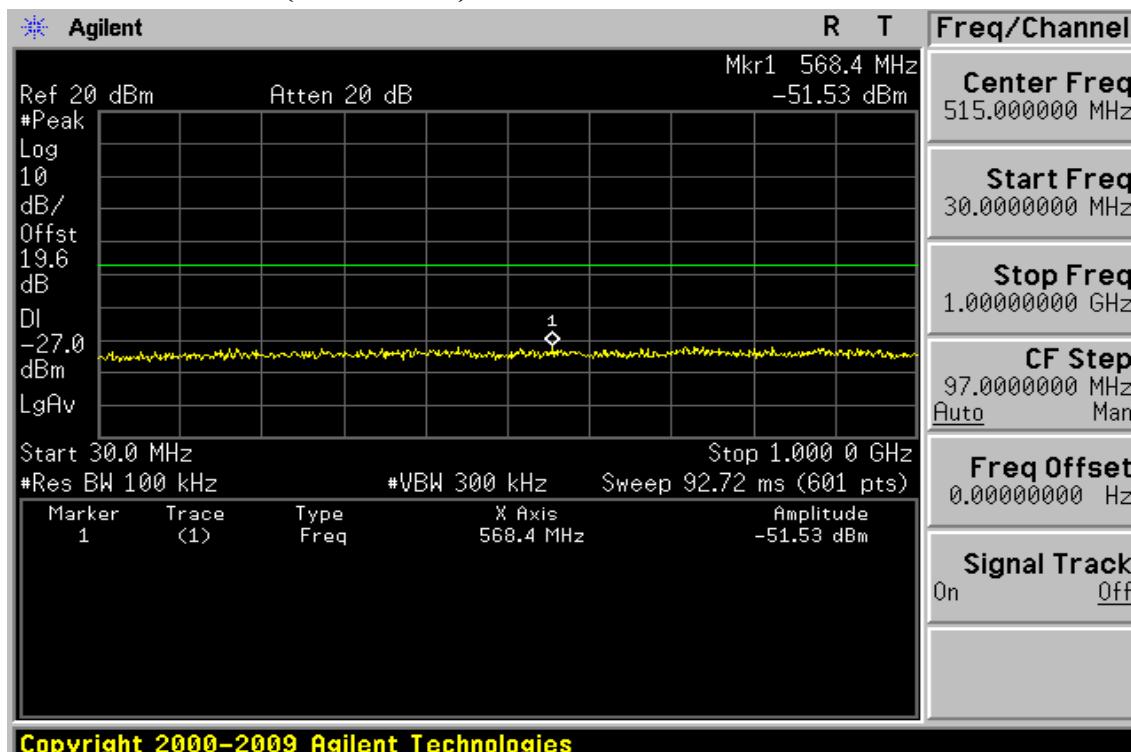


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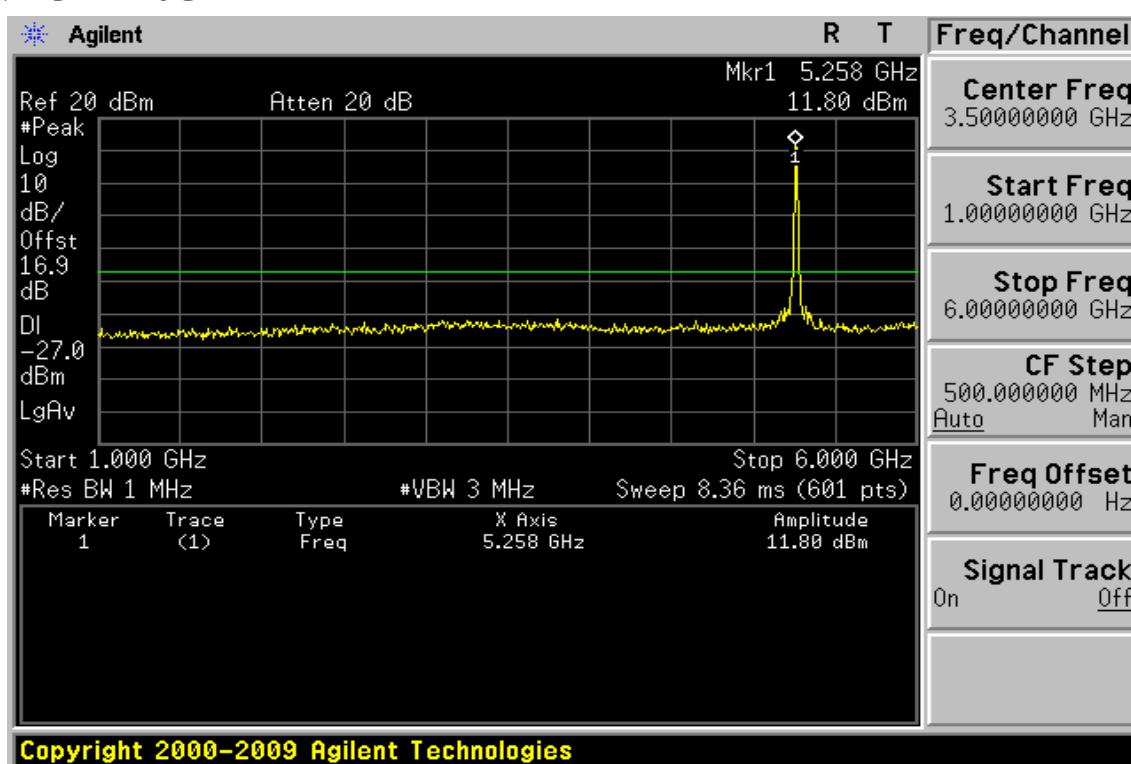
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802.11n HT20, 5250~5350 MHz Ch Low 30MHz – 1GHz (5260 MHz)



Ch Low 1GHz – 6GHz

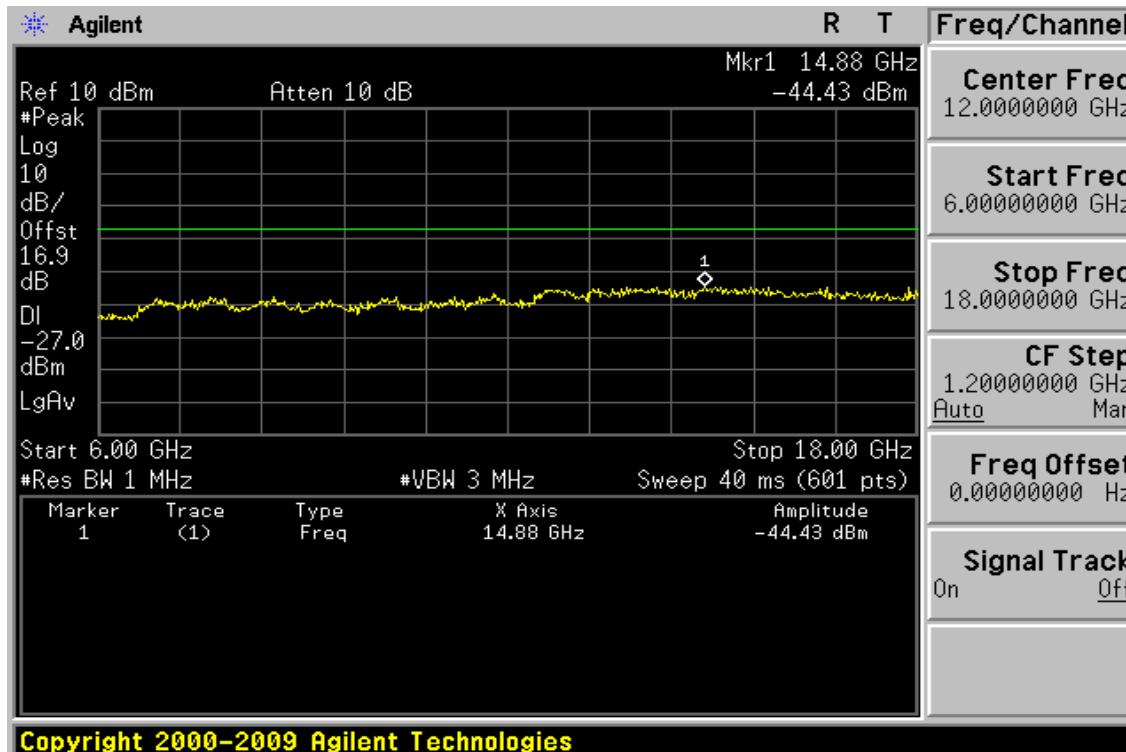


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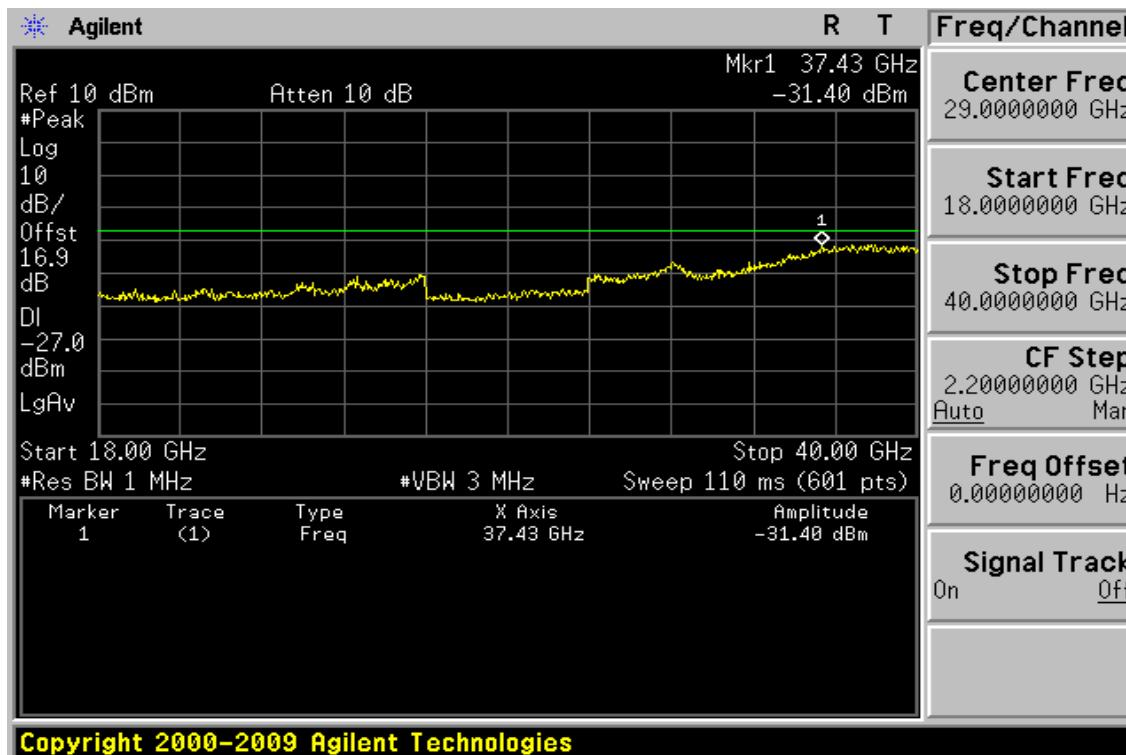
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

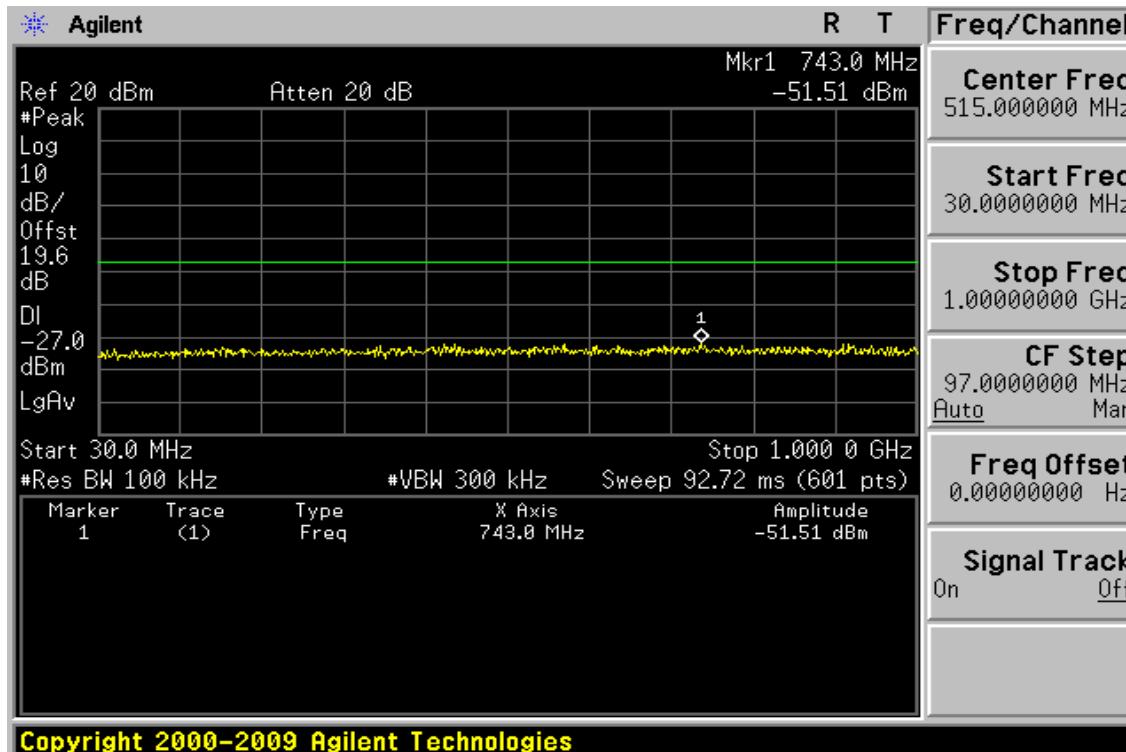


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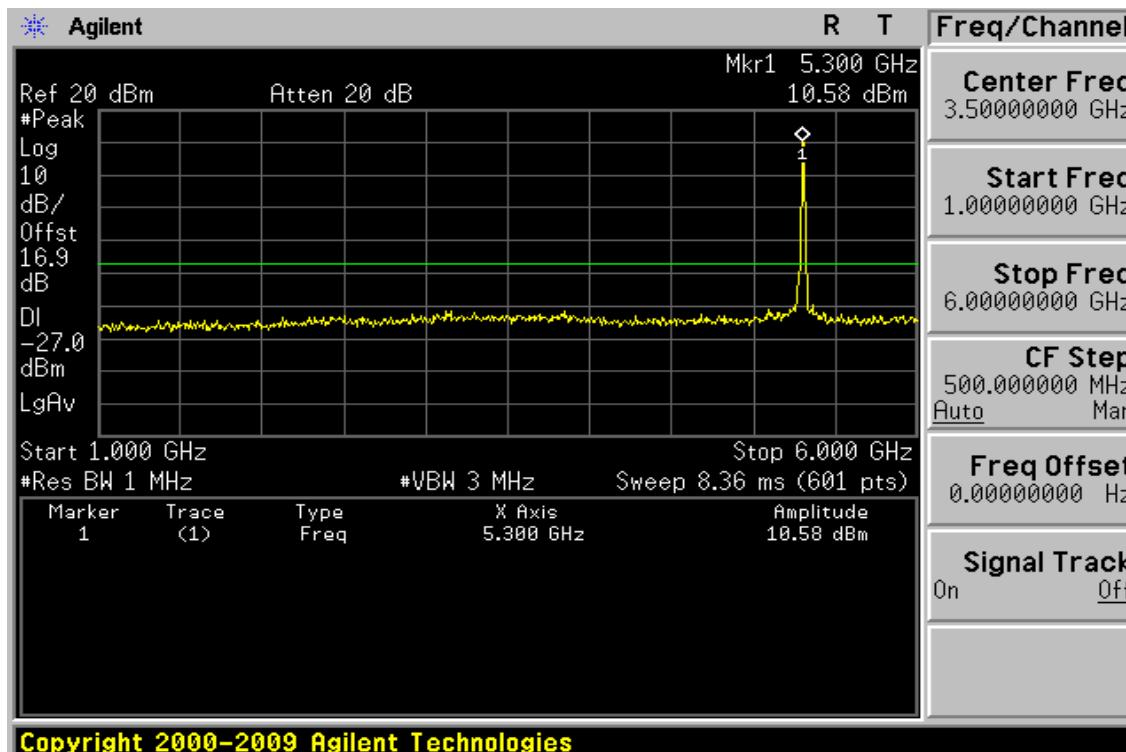
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Ch Mid 30MHz – 1GHz (5300 MHz)



Ch Mid 1GHz – 6GHz

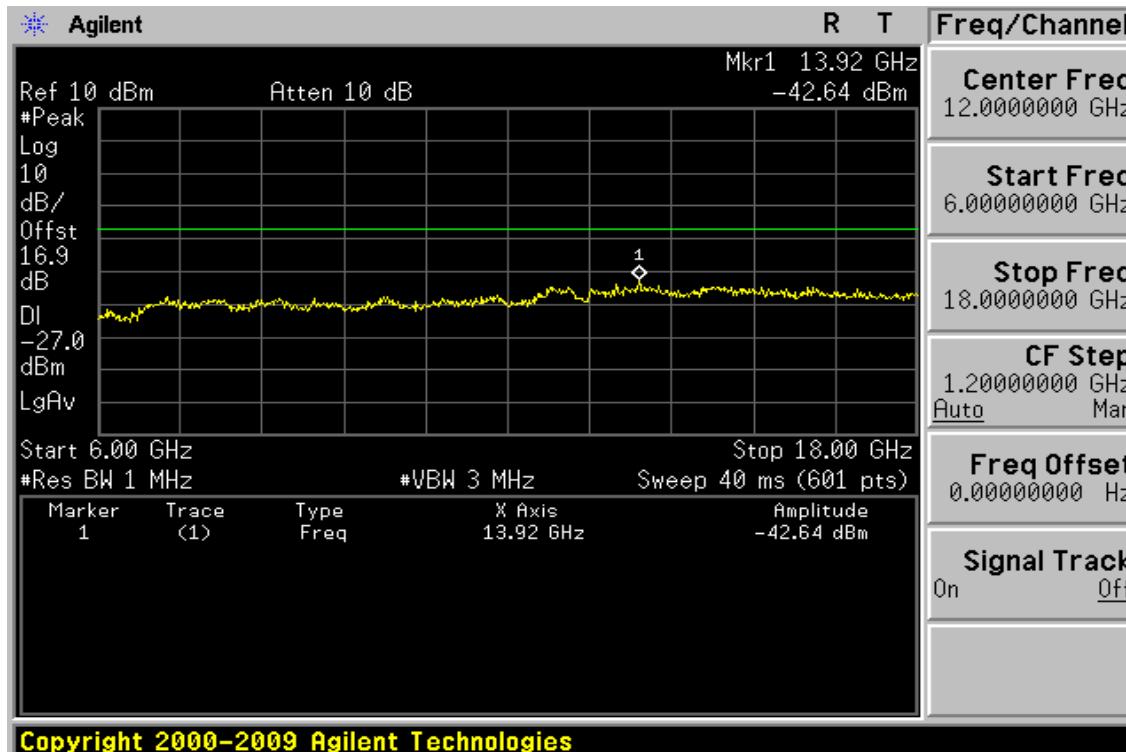


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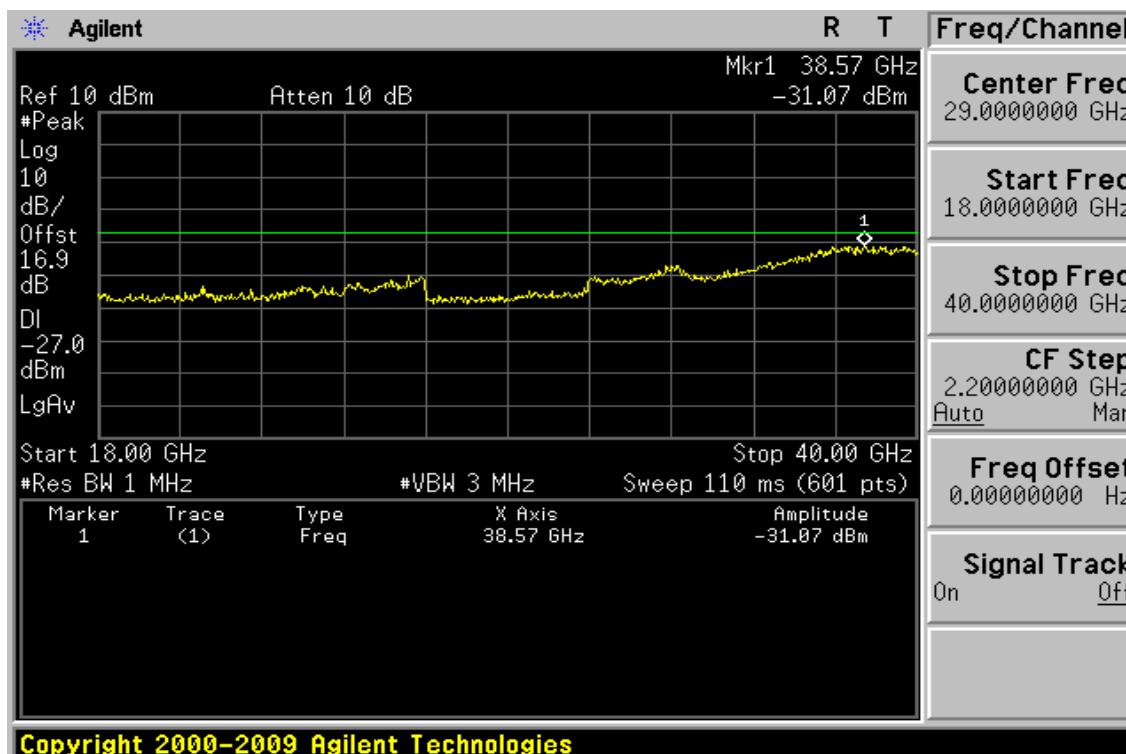
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

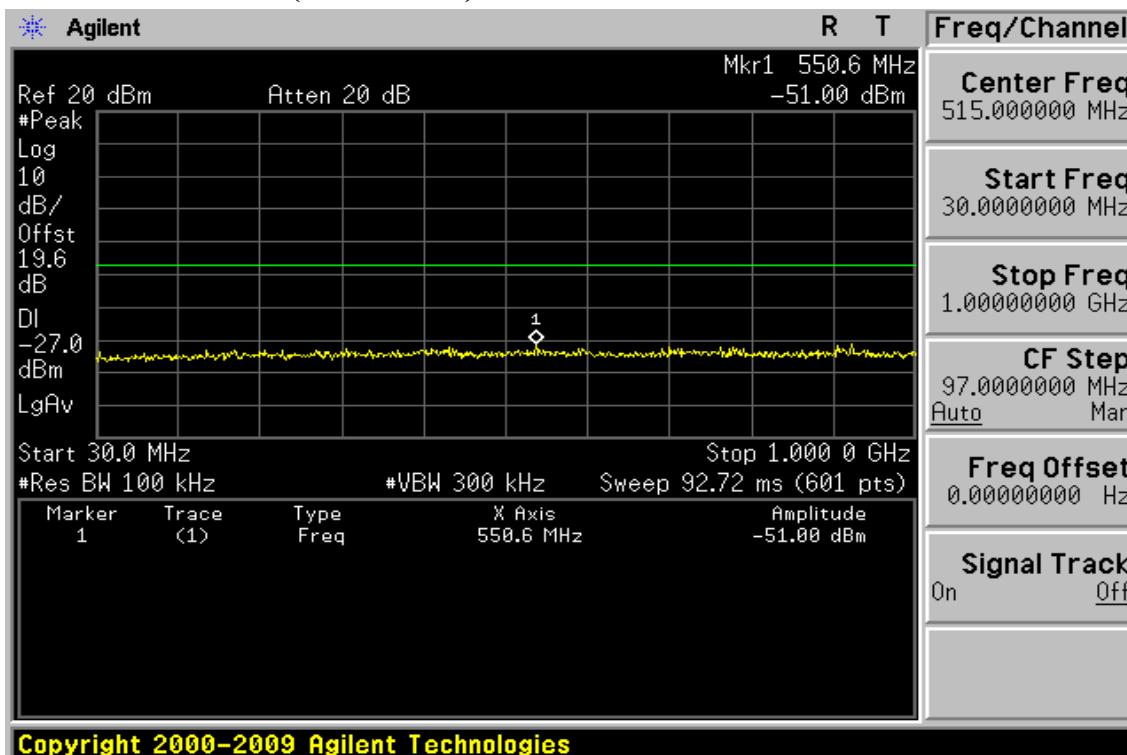


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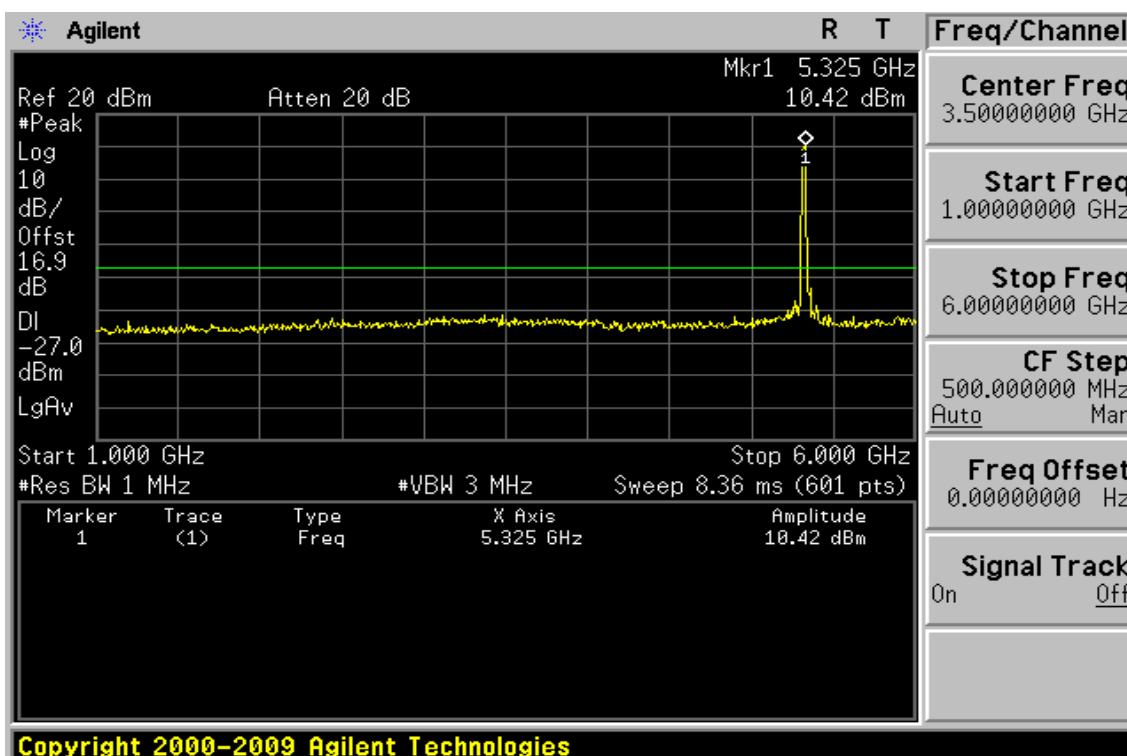
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Ch High 30MHz – 1GHz (5320 MHz)



Ch High 1GHz – 6GHz

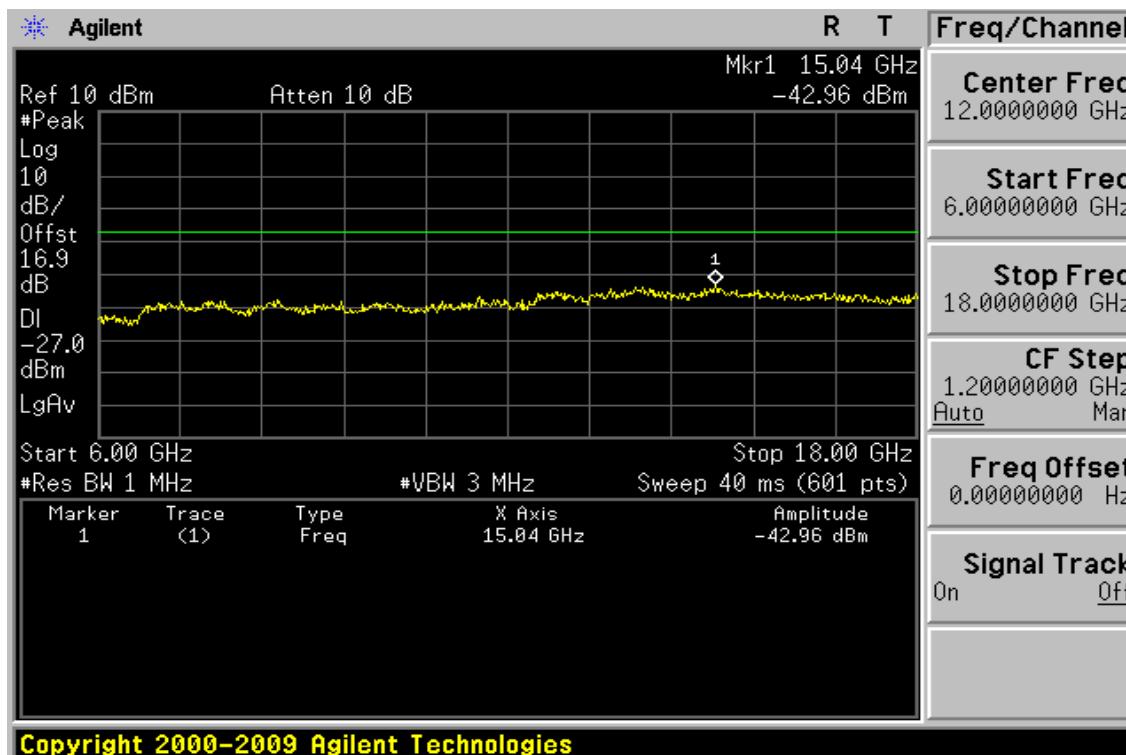


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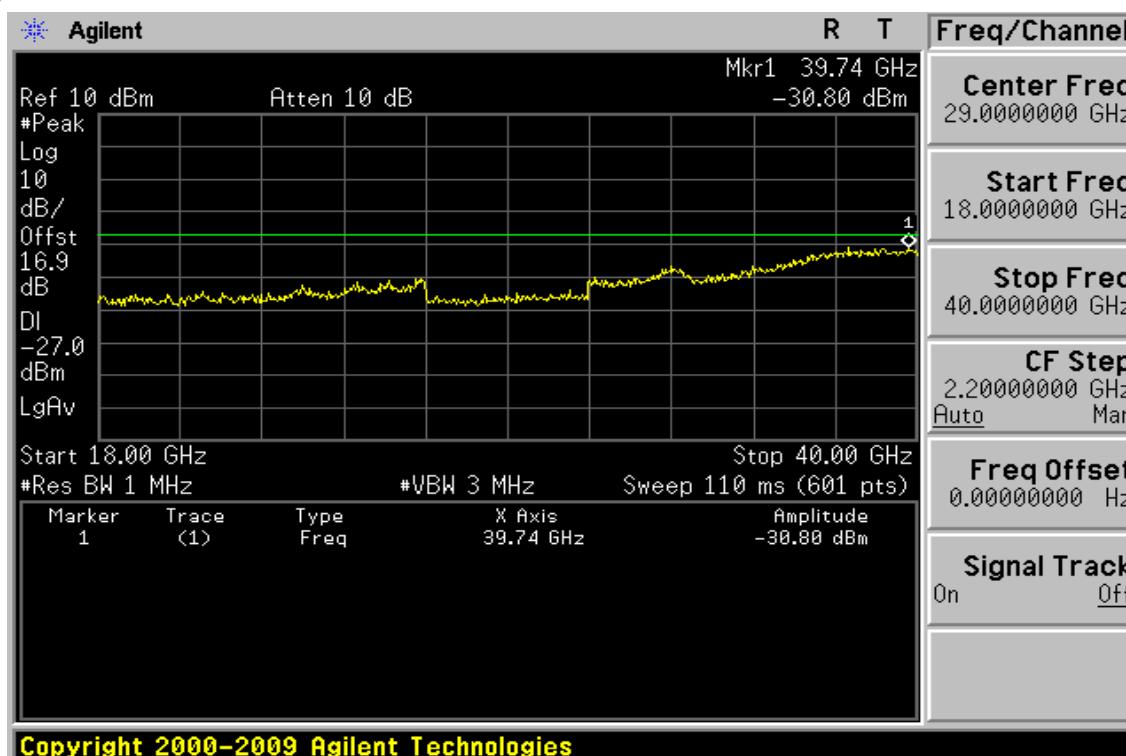
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



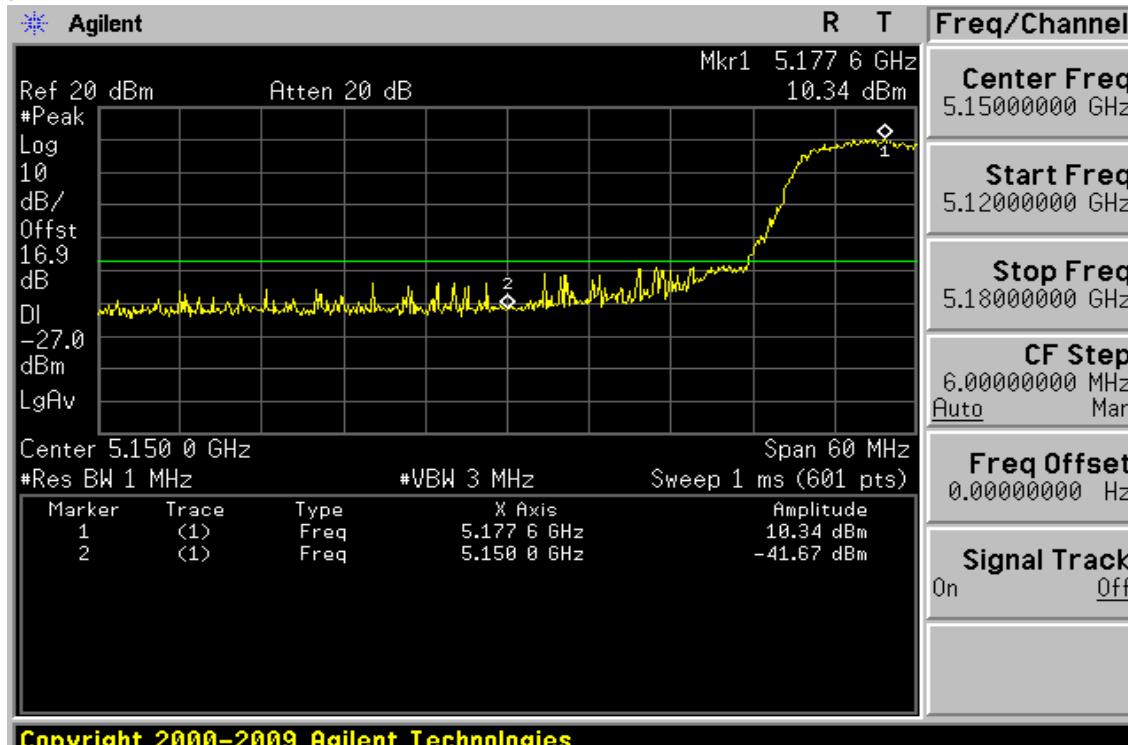
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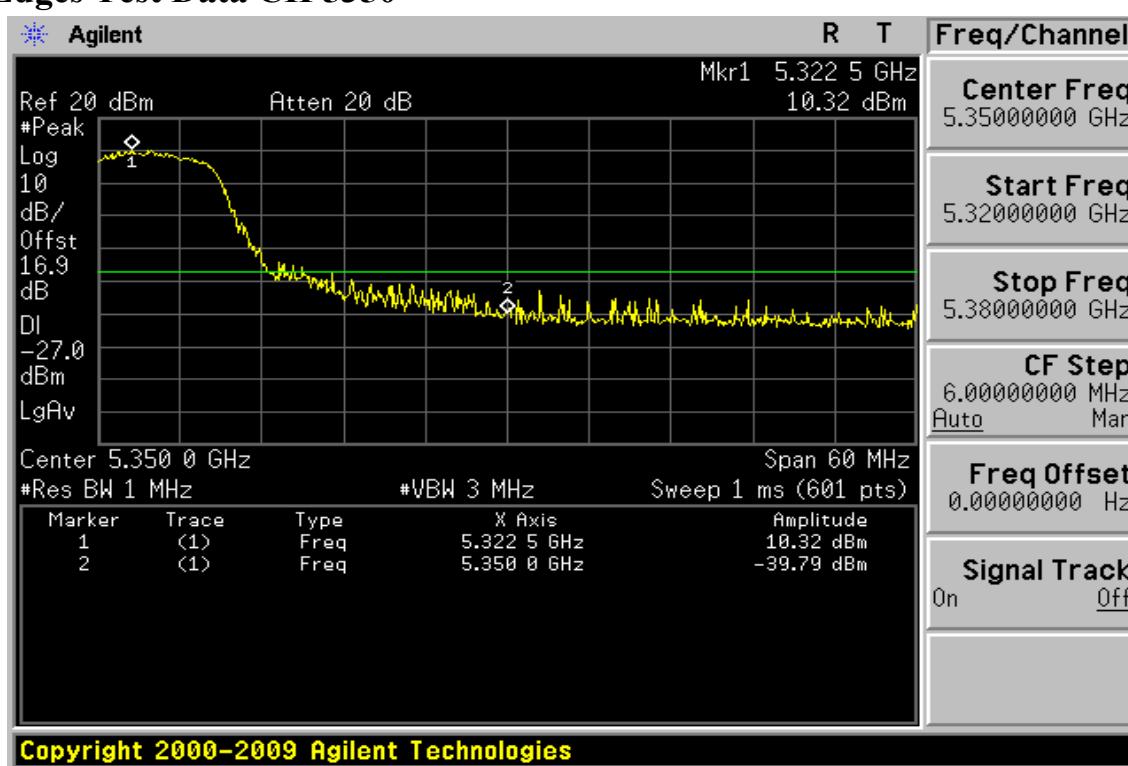
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802.11n HT20 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



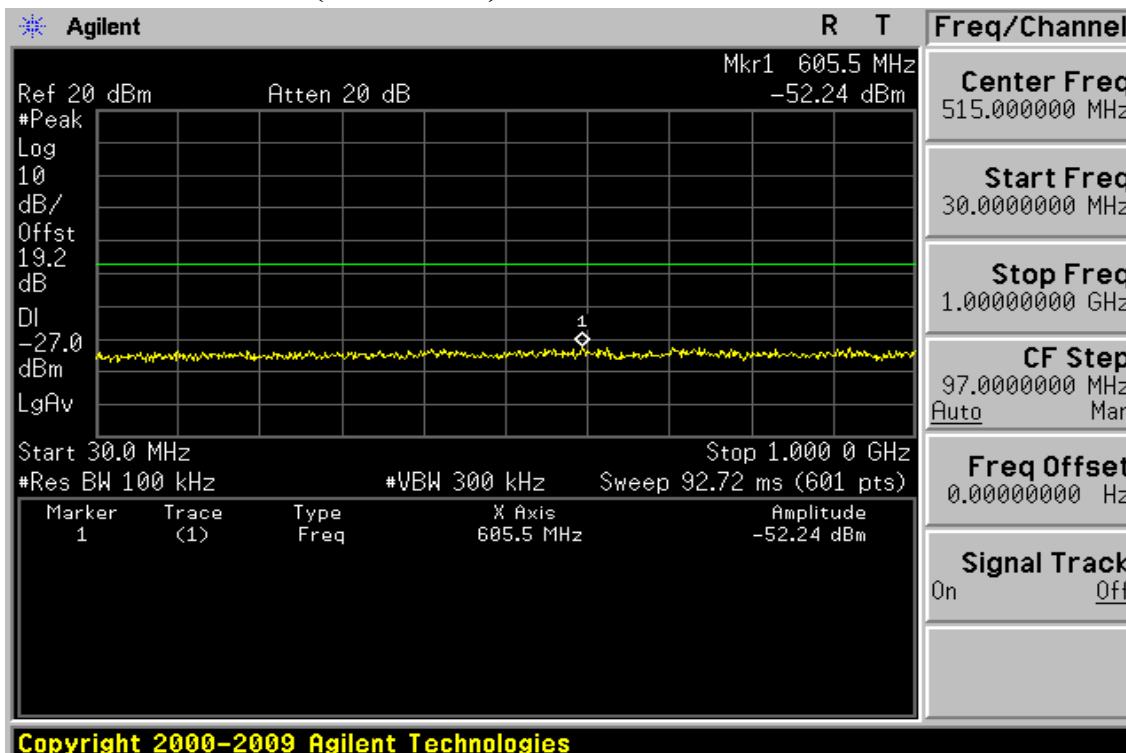
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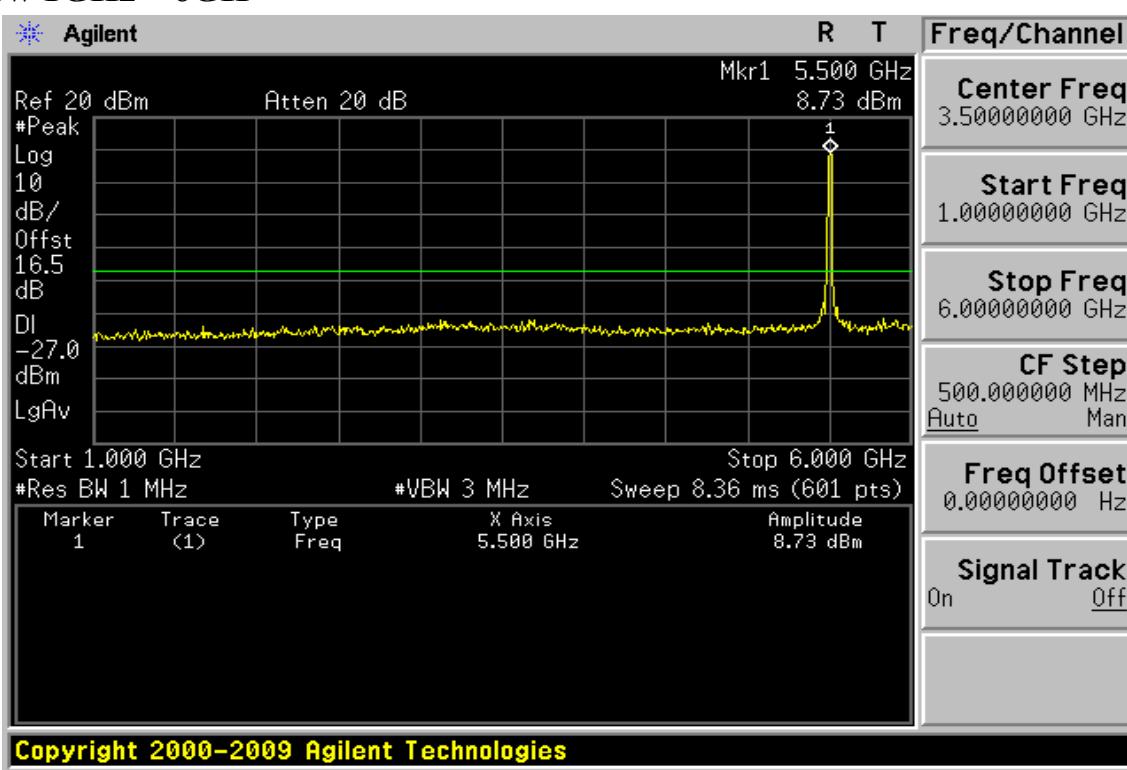
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802.11n HT20, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5500 MHz)



Ch Low 1GHz – 6GHz

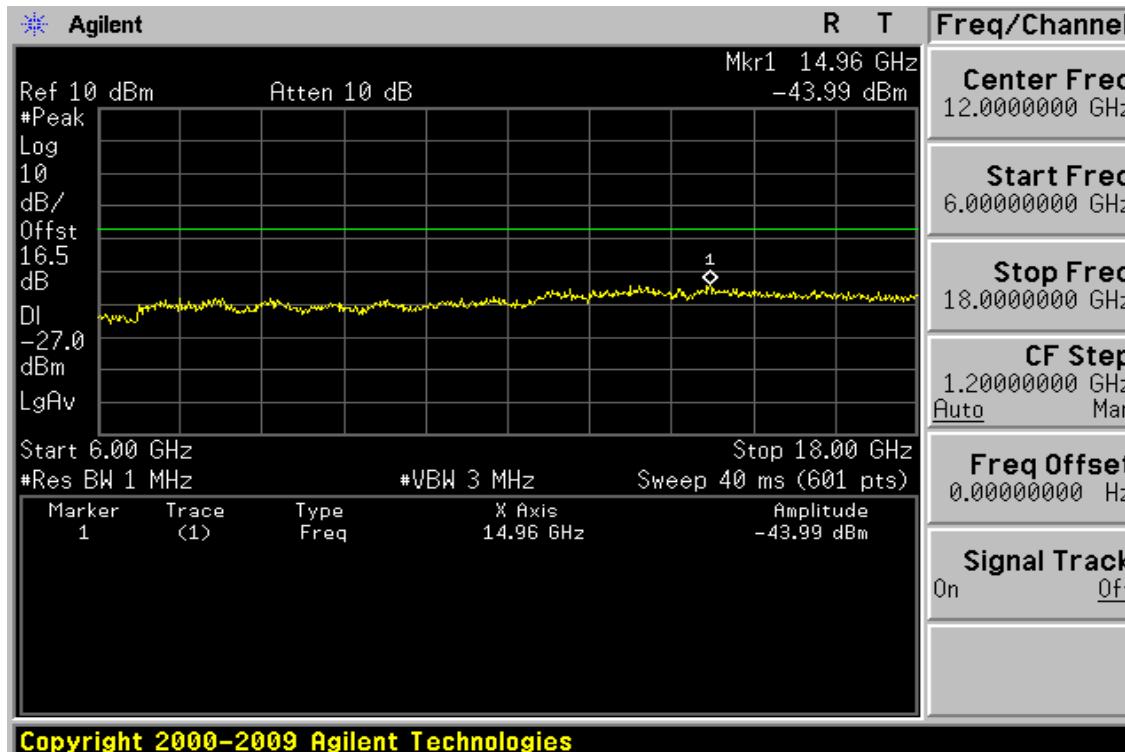


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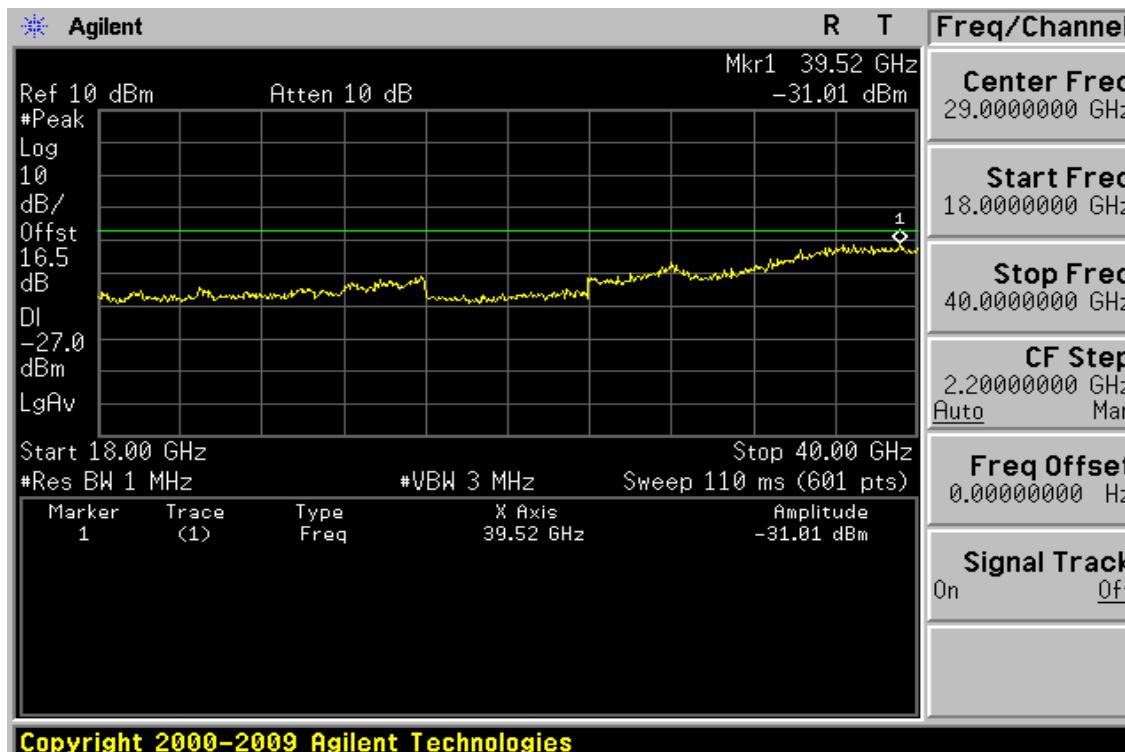
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

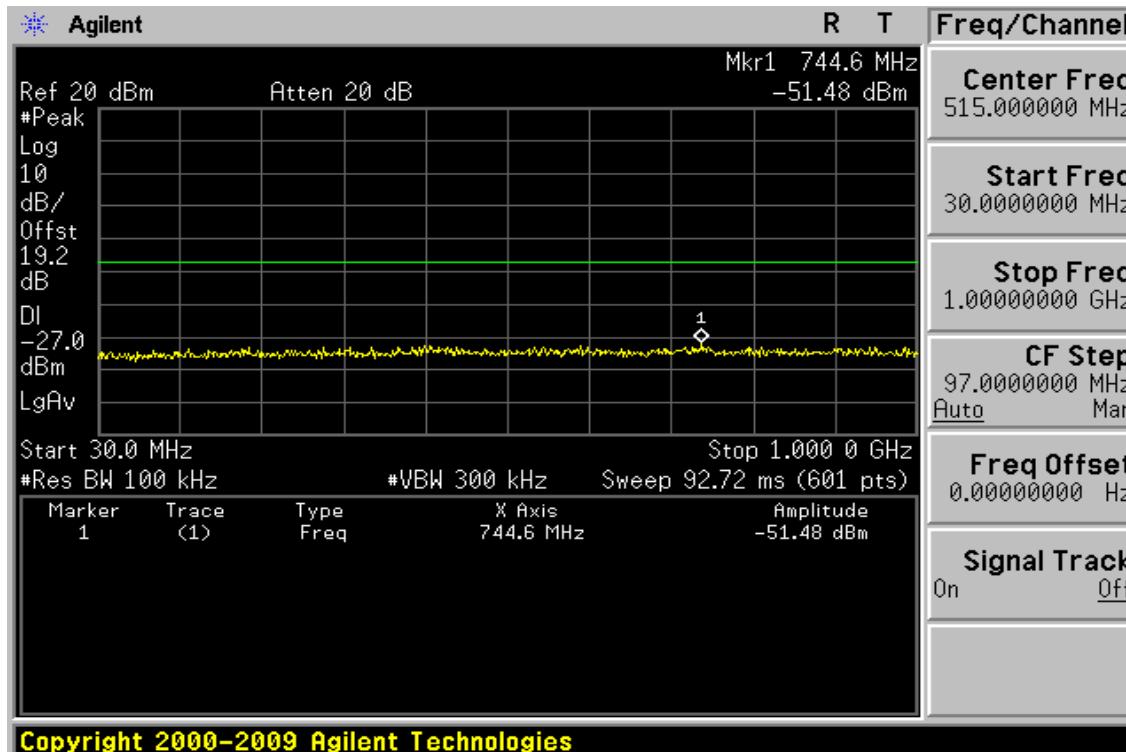


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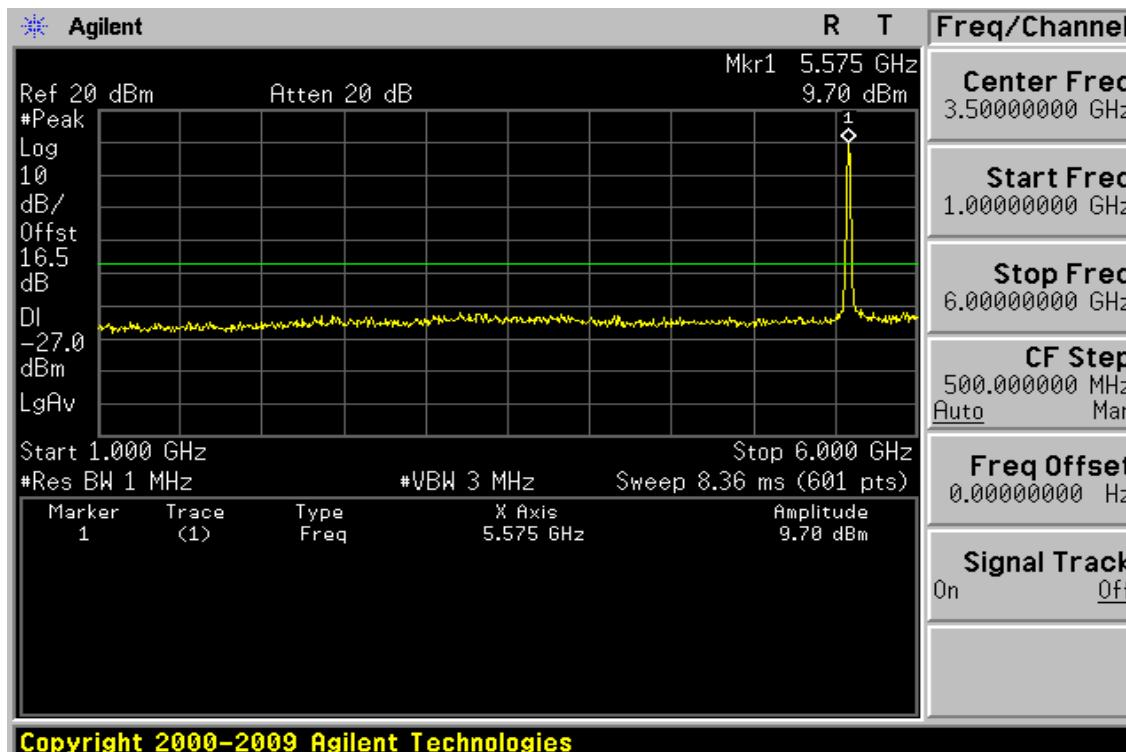
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Ch Mid 30MHz – 1GHz (5580 MHz)



Ch Mid 1GHz – 6GHz

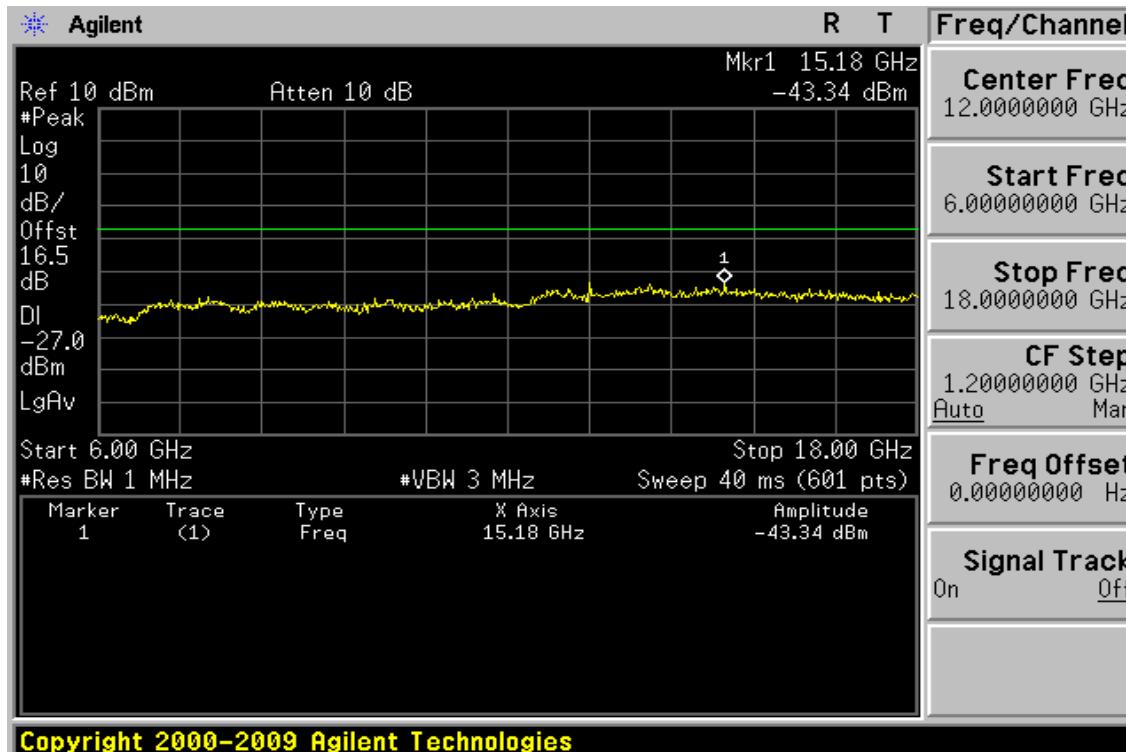


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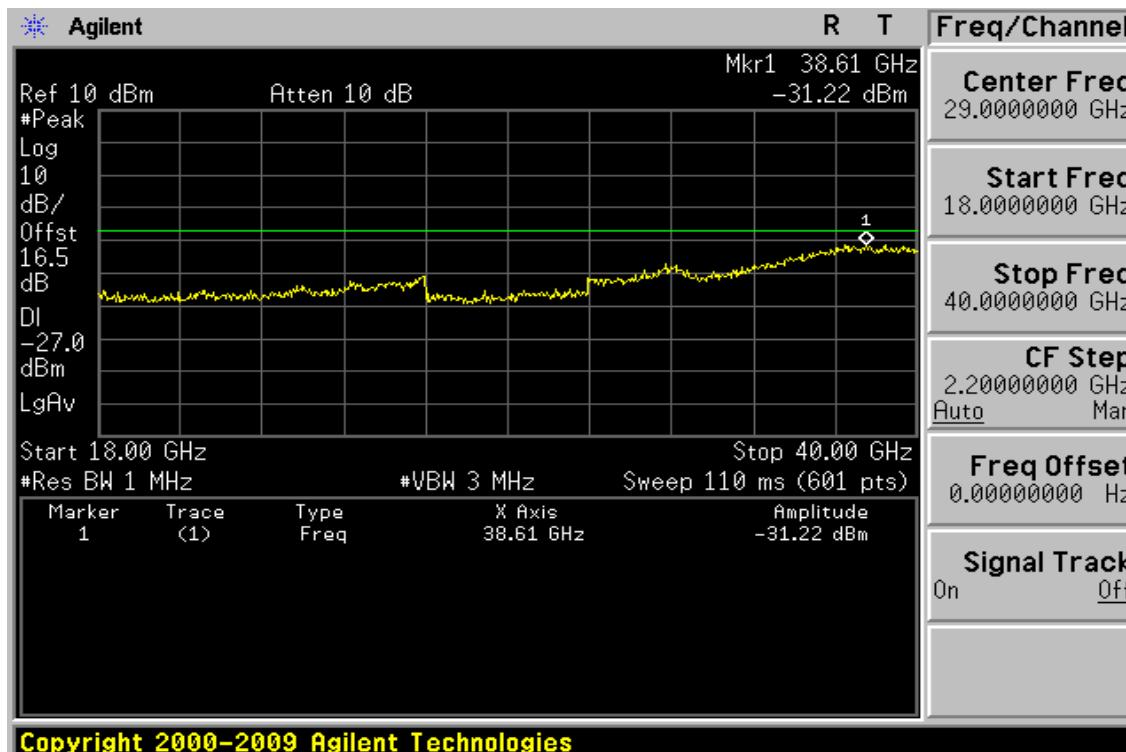
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

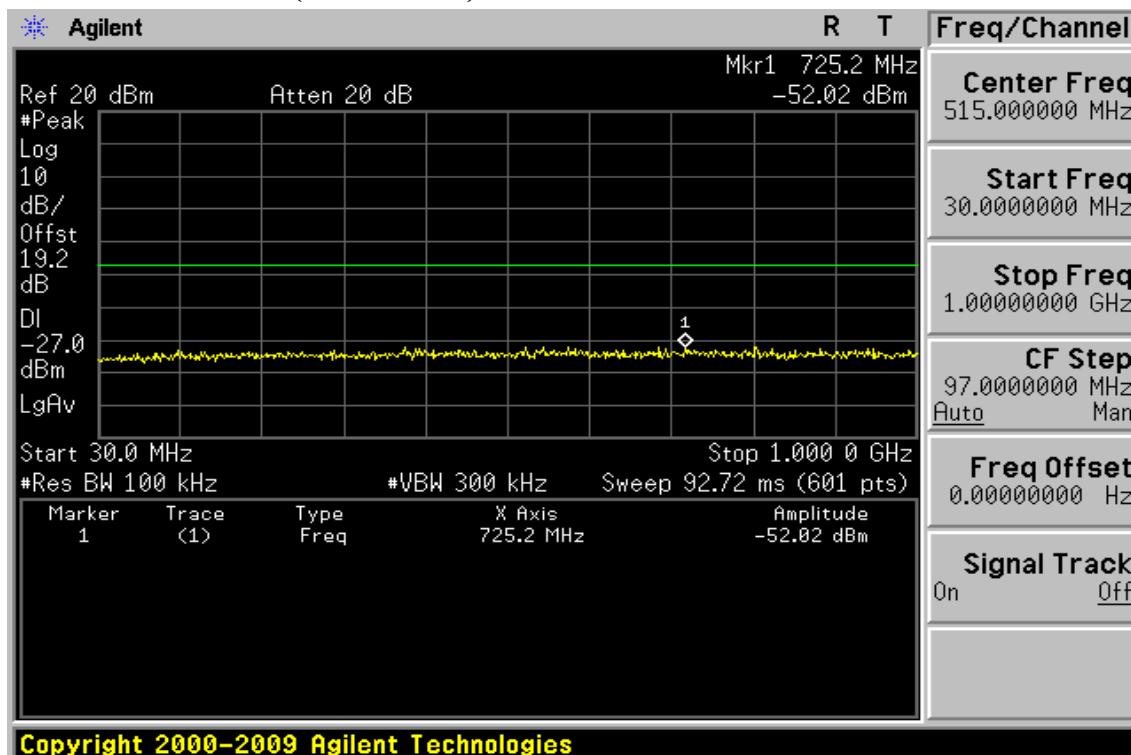


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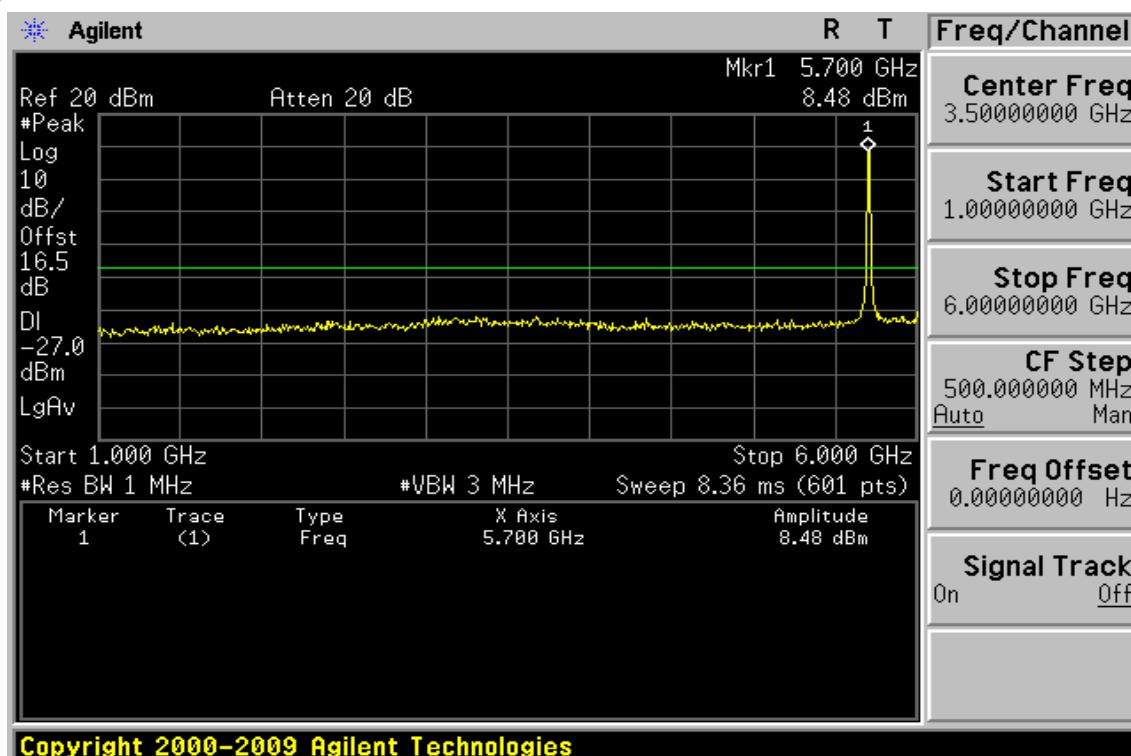
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Ch High 30MHz – 1GHz (5700 MHz)



Ch High 1GHz – 6GHz

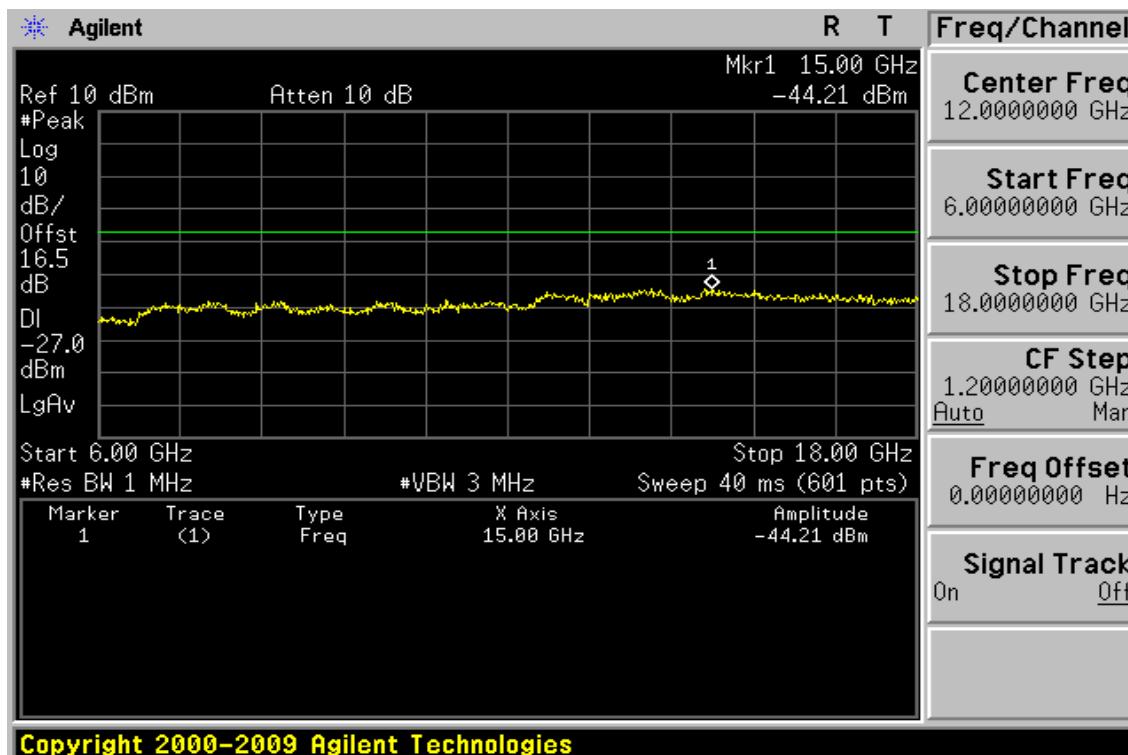


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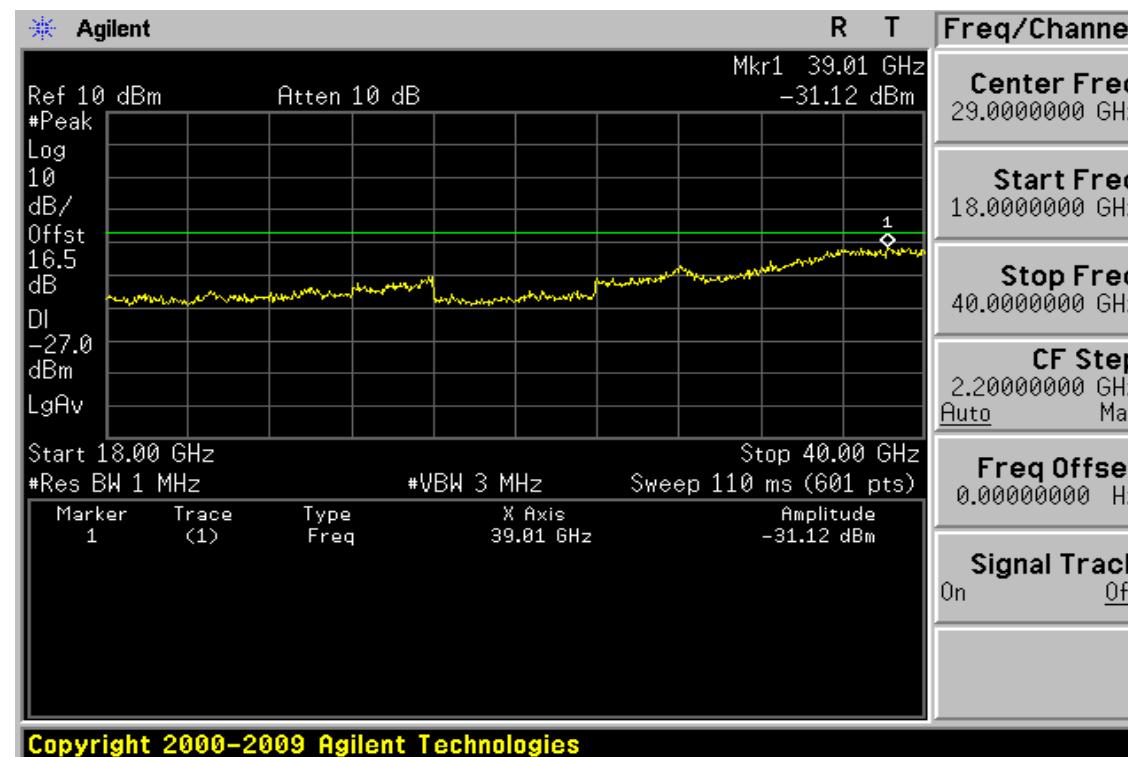
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

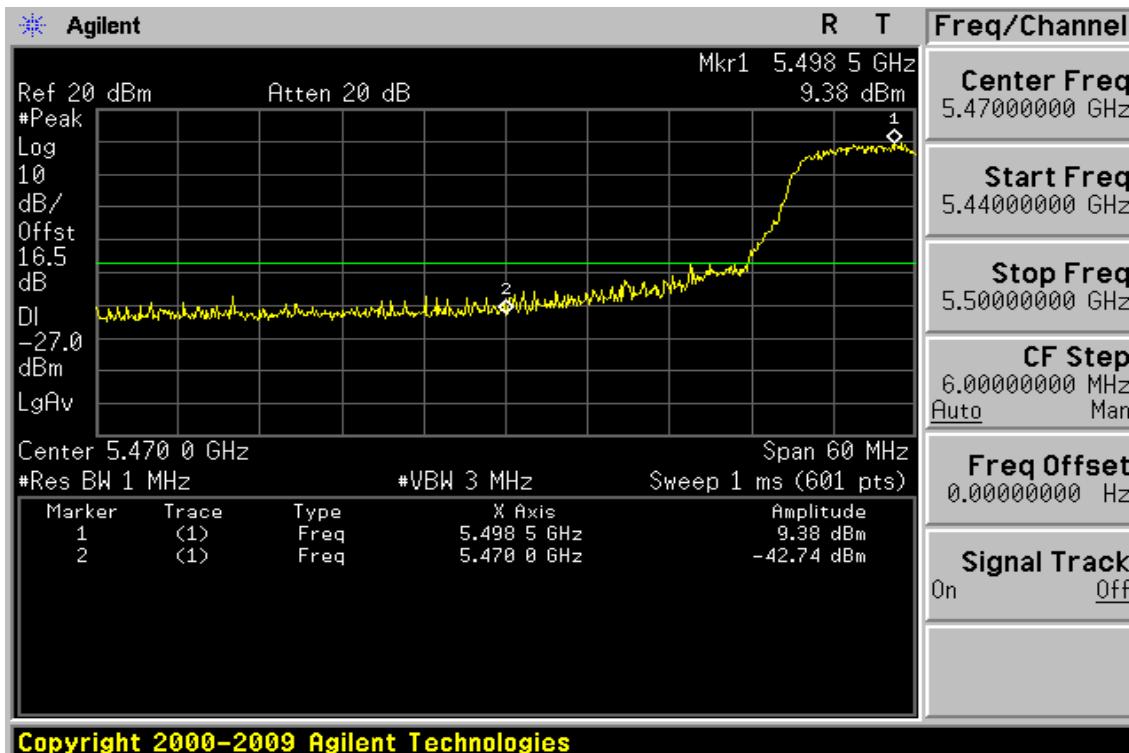


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802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5500



802.11n HT20 5470~5725 MHz Band Edges Test Data CH 5700



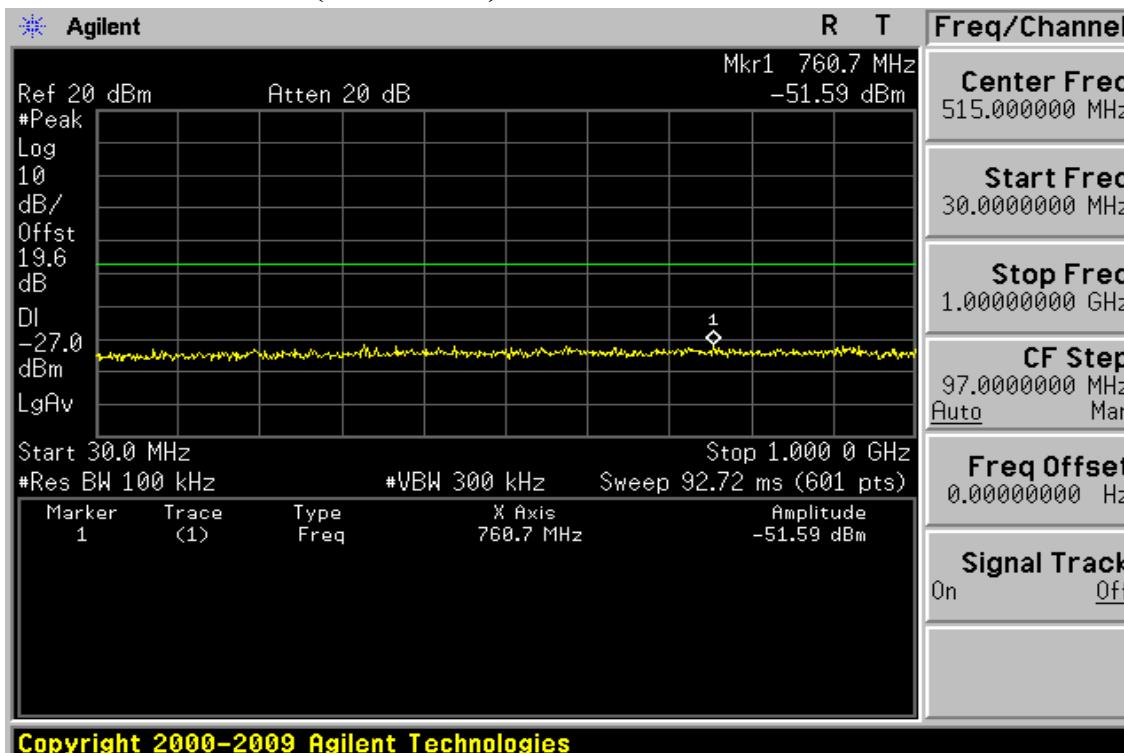
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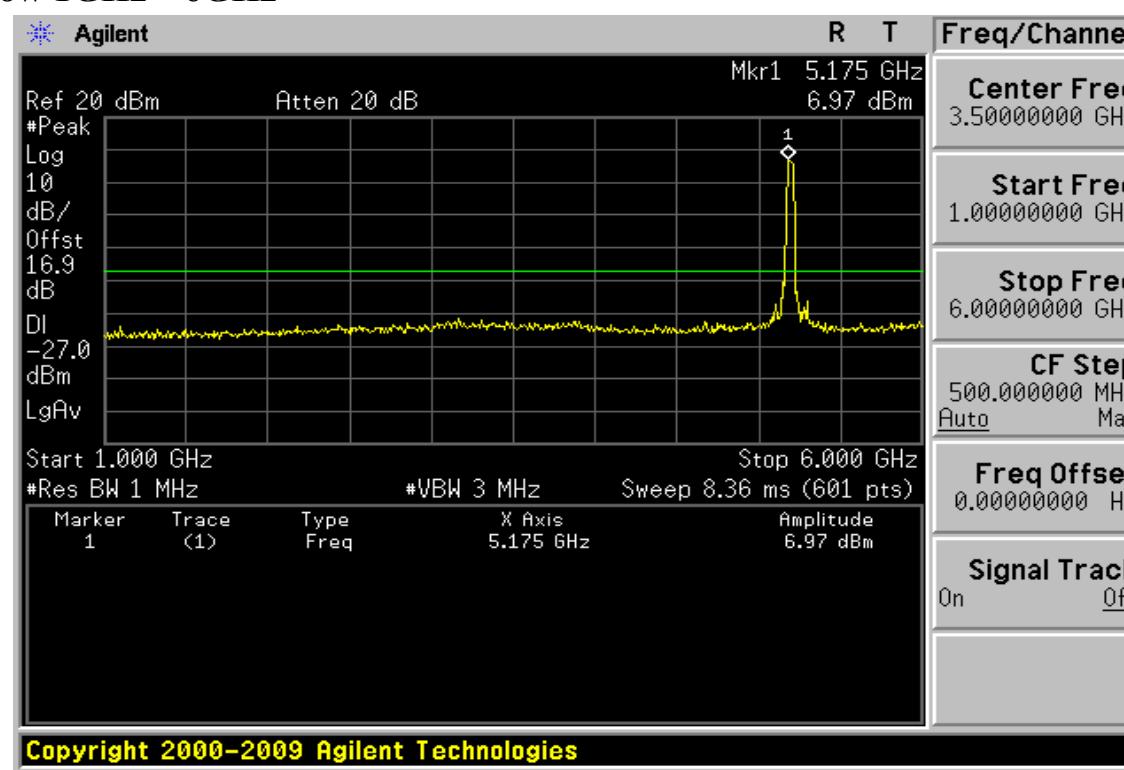
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802.11n HT40, 5150~5250 MHz

Ch Low 30MHz – 1GHz (5190 MHz)



Ch Low 1GHz – 6GHz

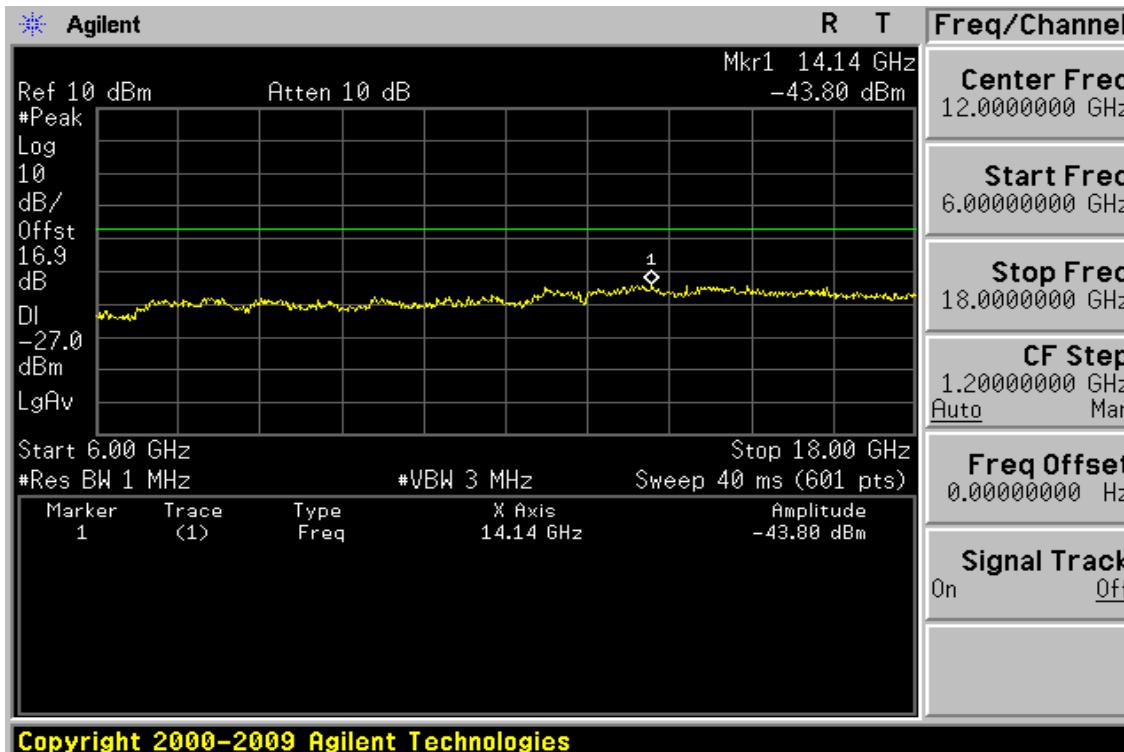


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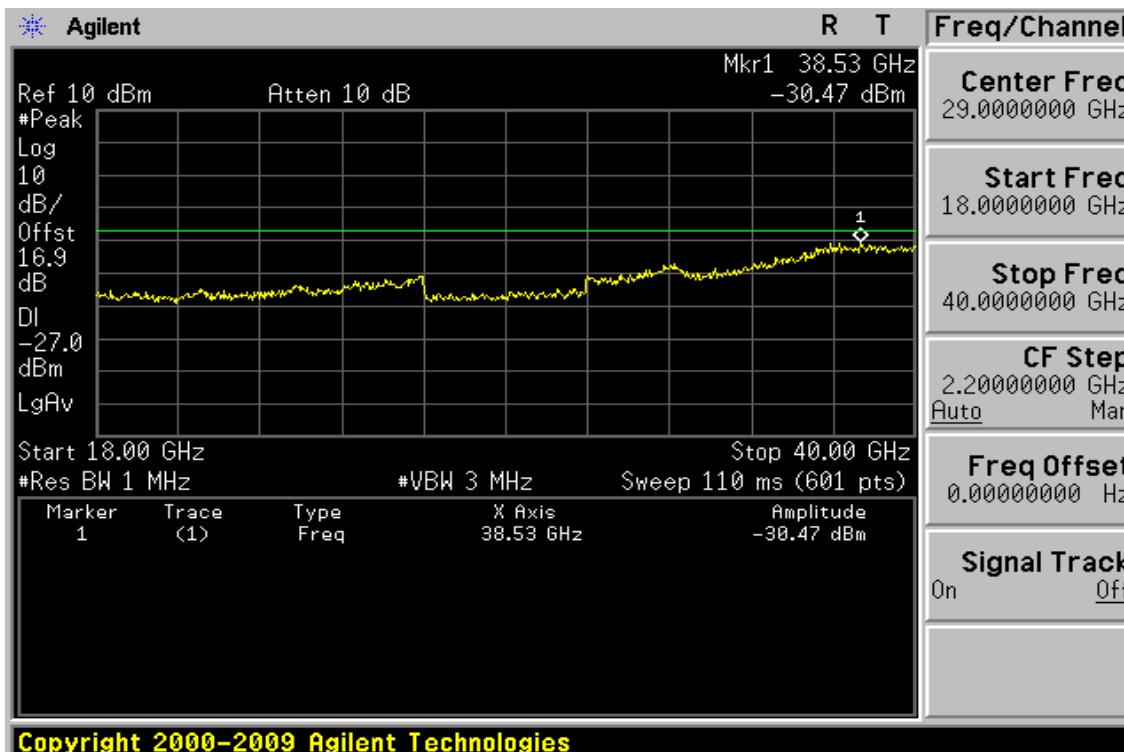
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

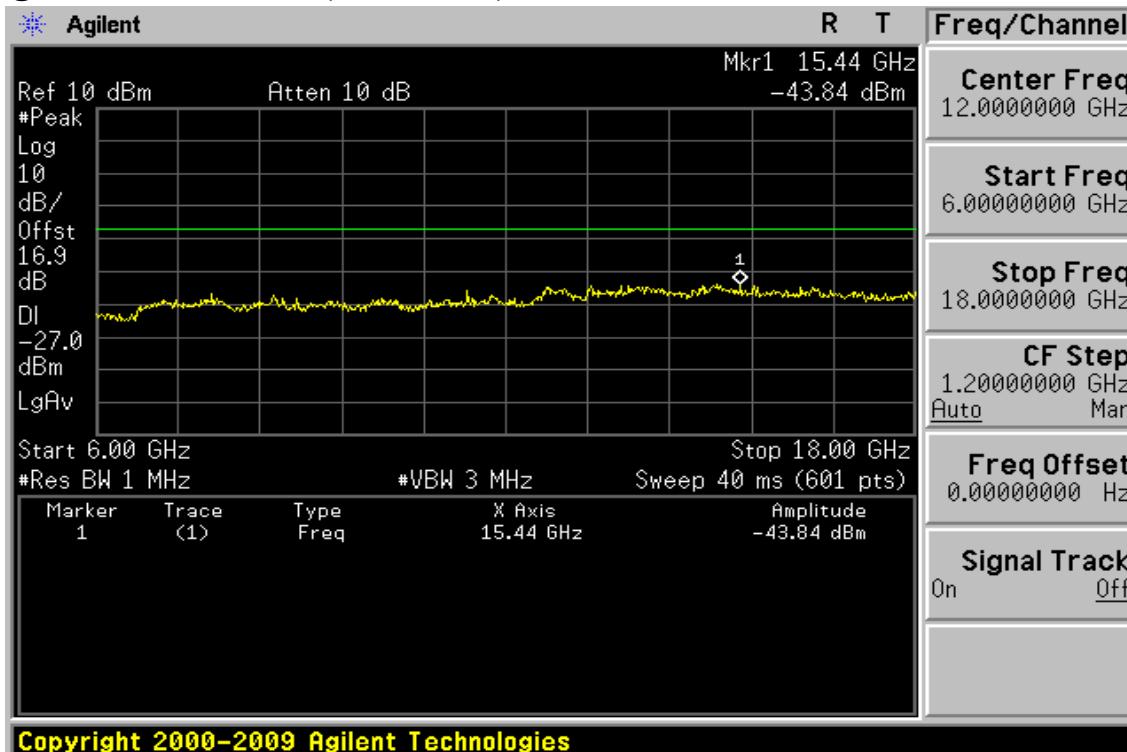


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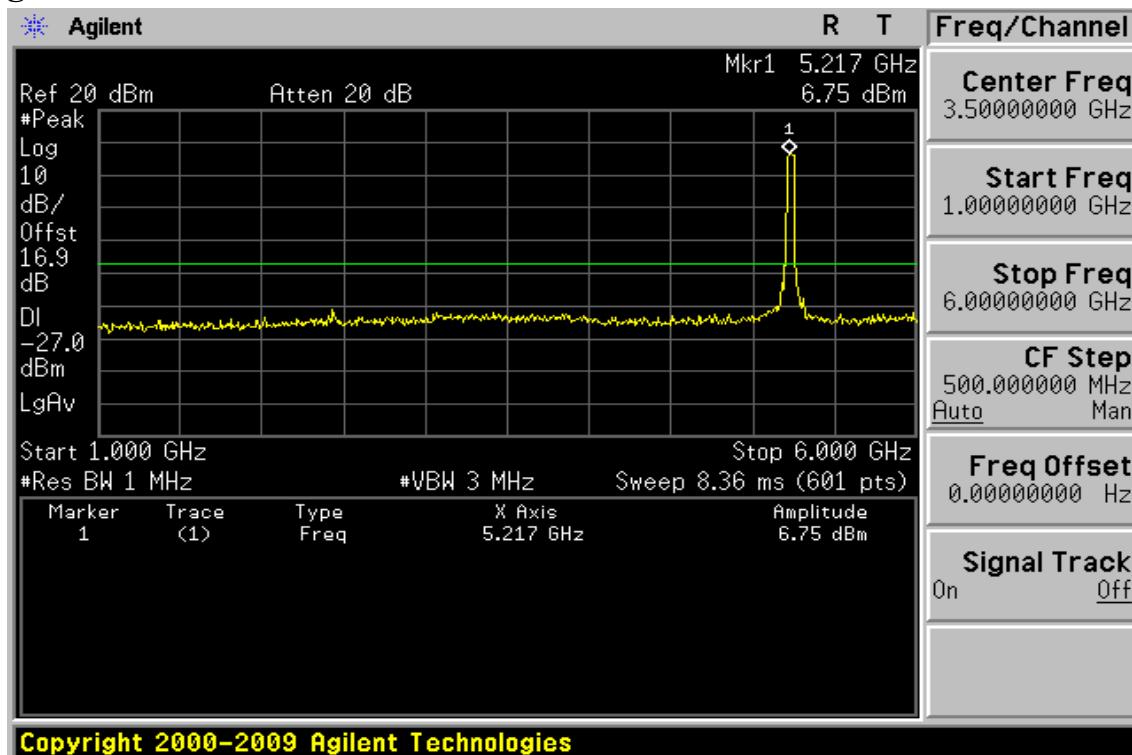
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Ch High 30MHz – 1GHz (5230 MHz)



Ch High 1GHz – 6GHz

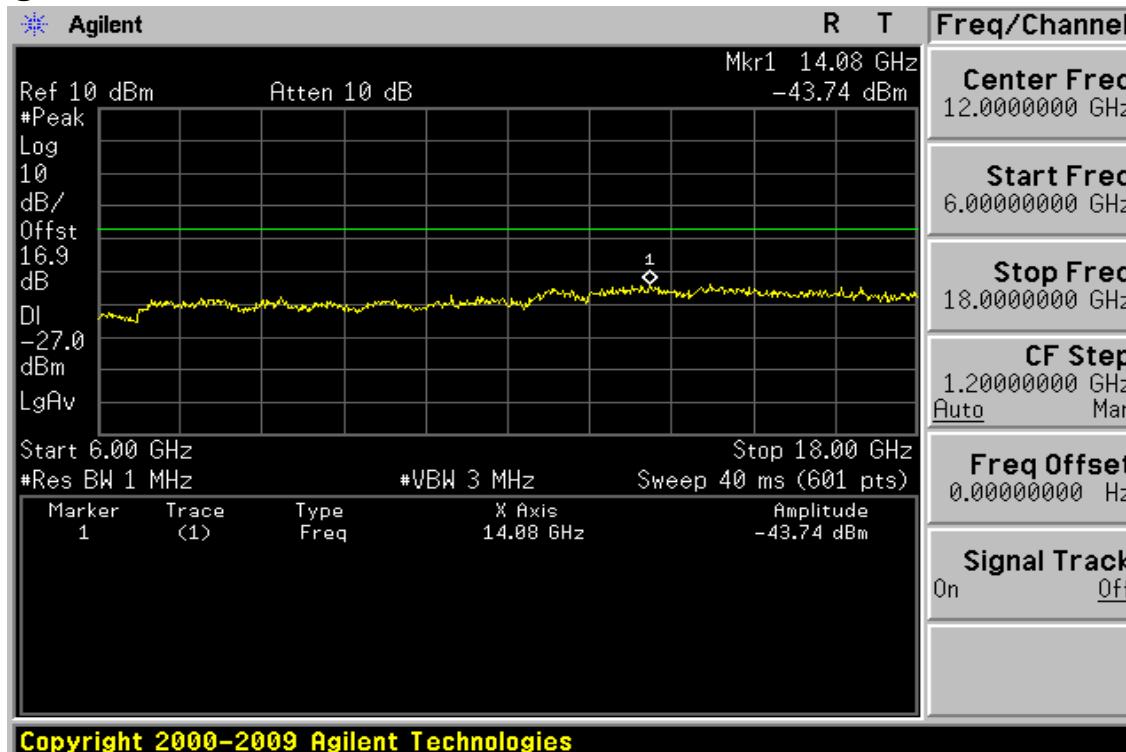


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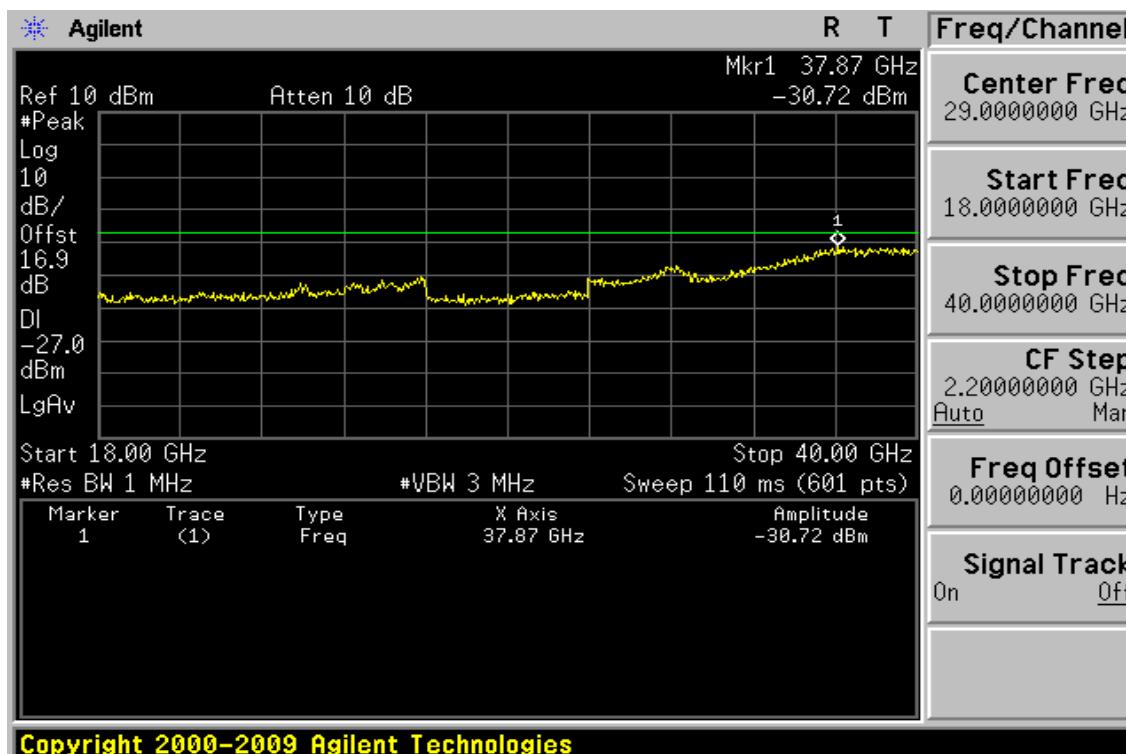
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

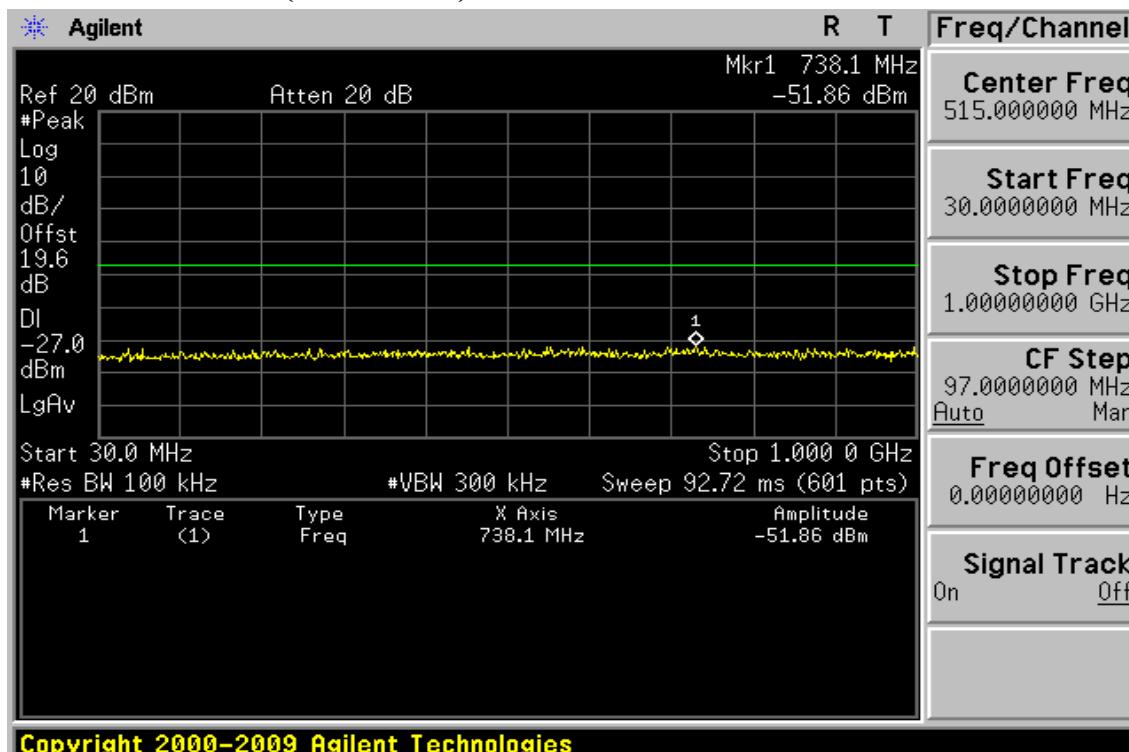


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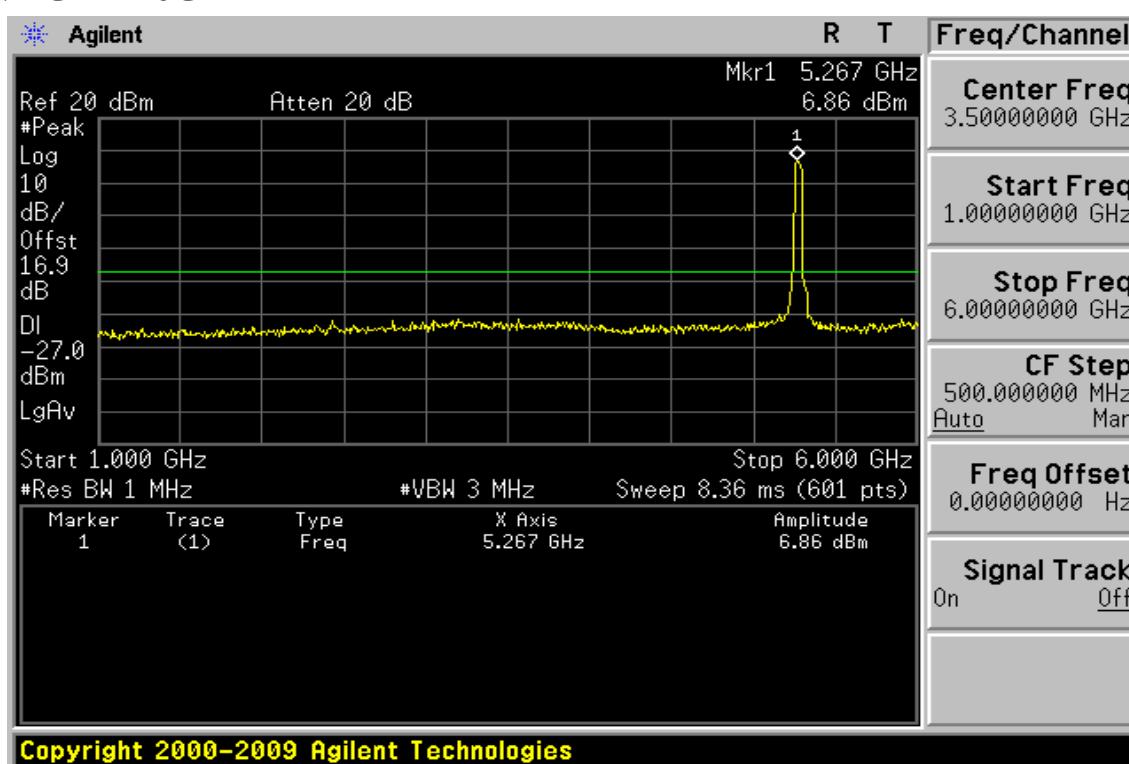
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802.11n HT40, 5250~5350 MHz Ch Low 30MHz – 1GHz (5270 MHz)



Ch Low 1GHz – 6GHz

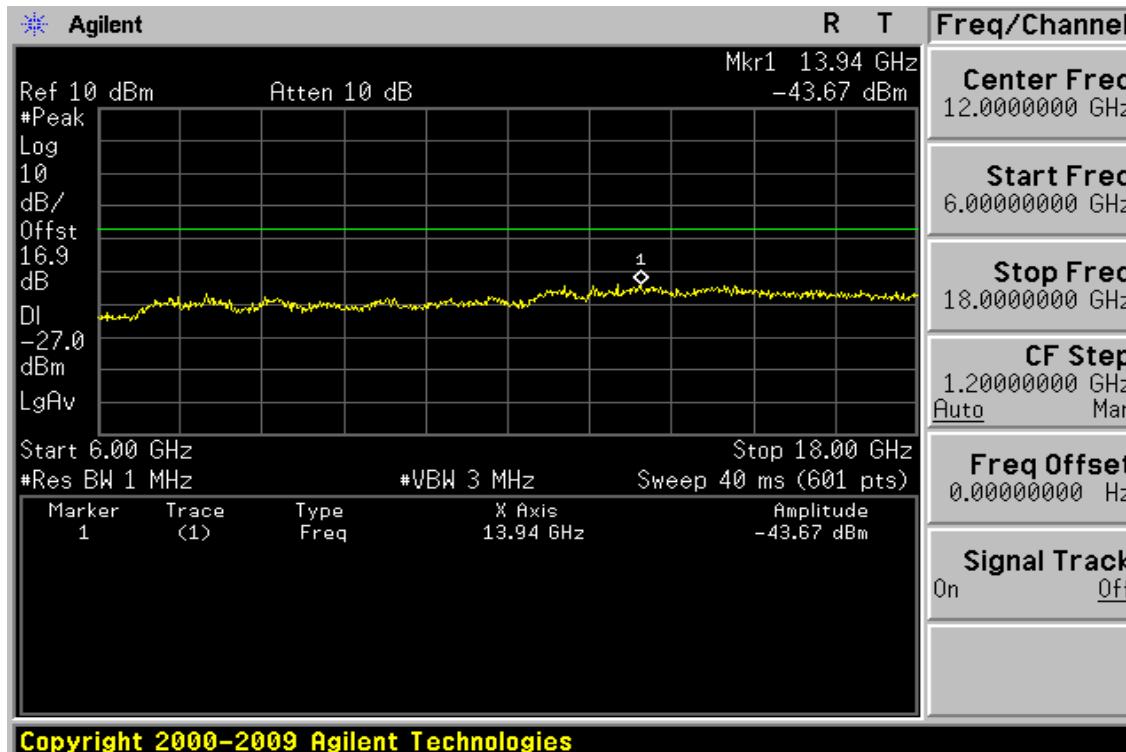


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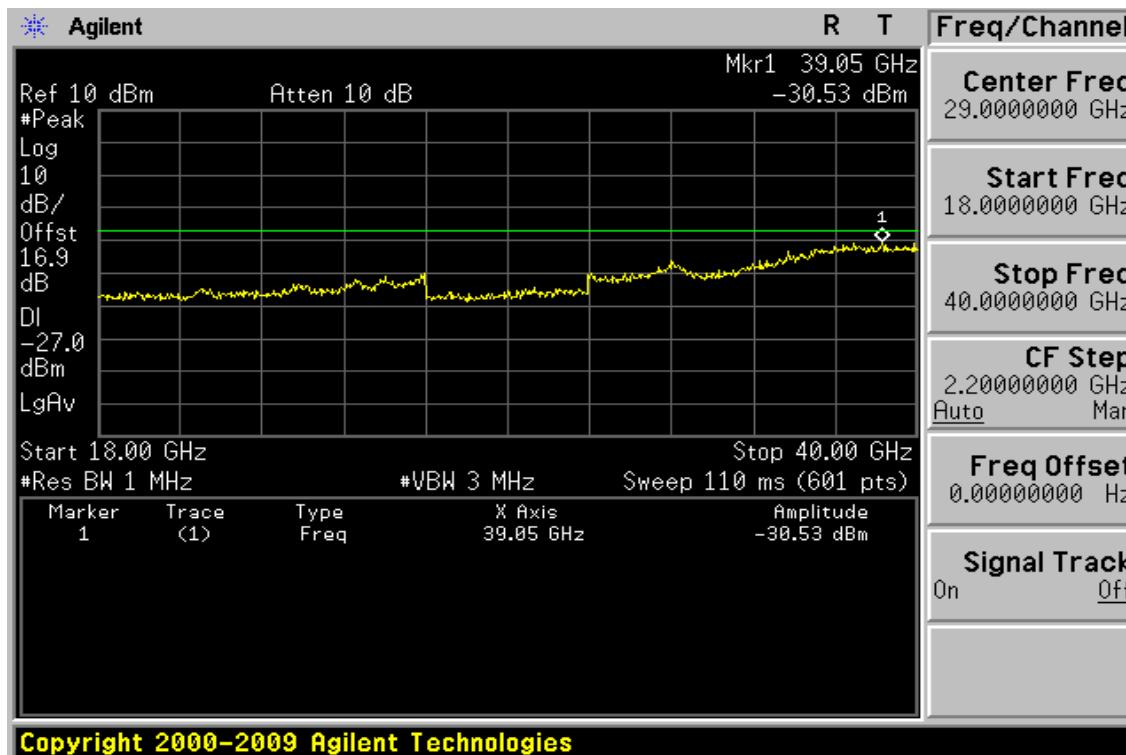
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

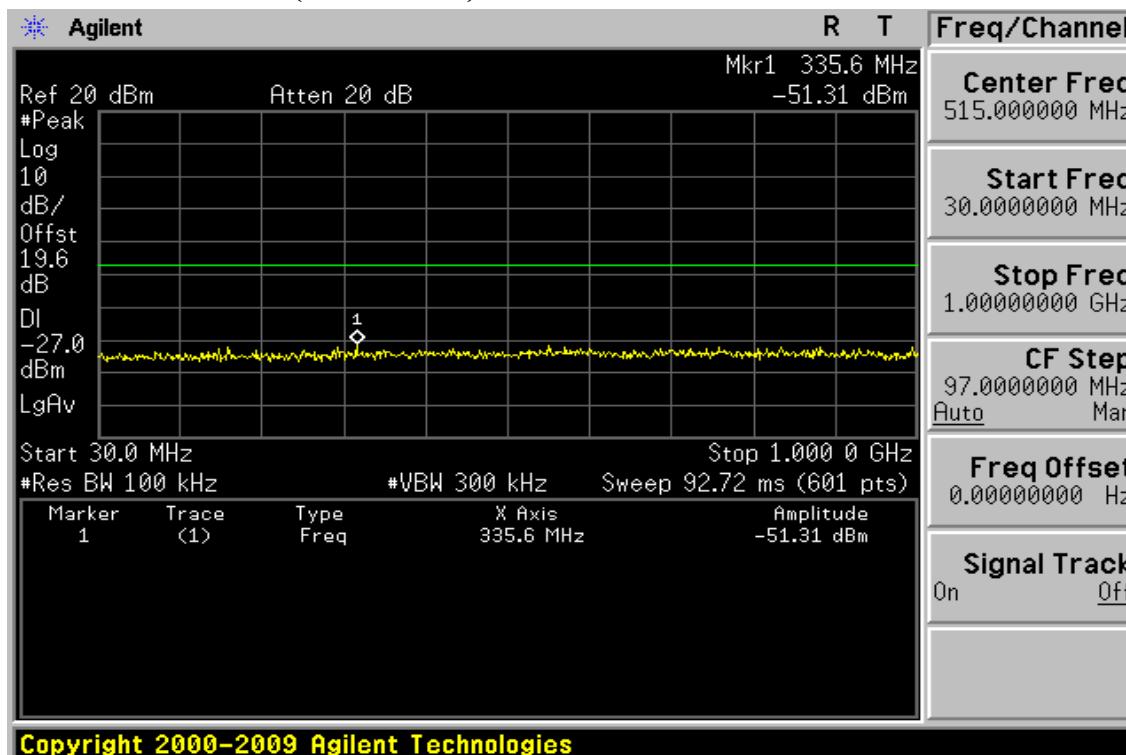


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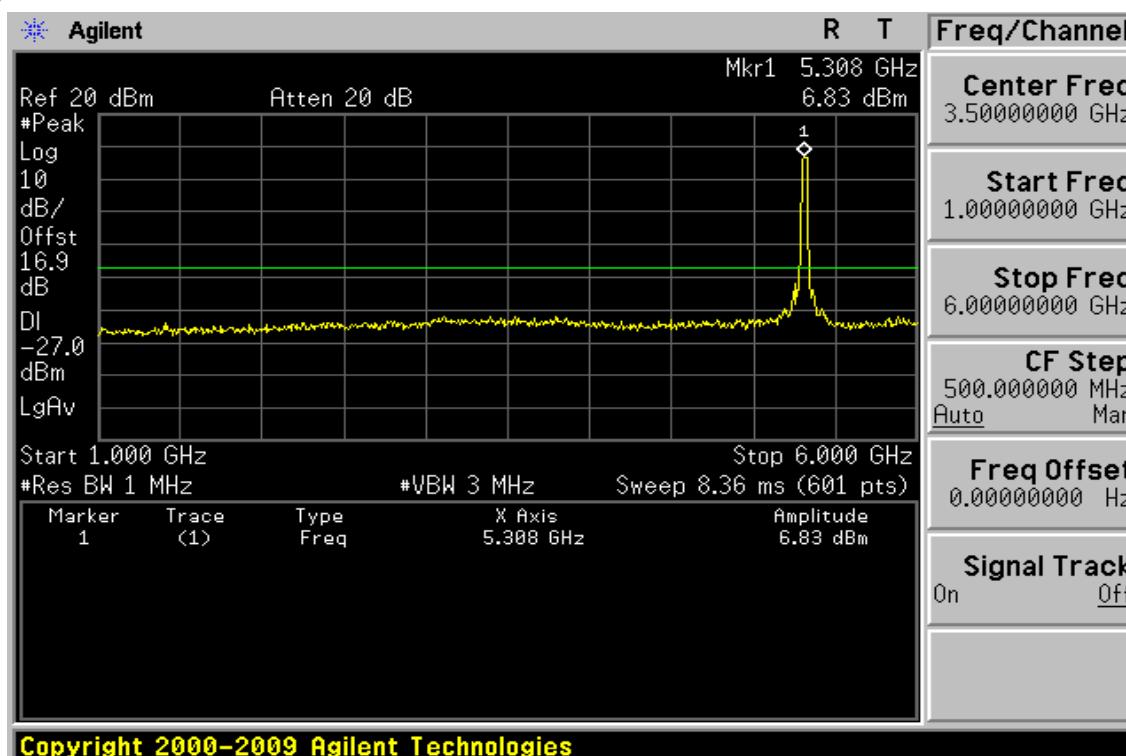
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Ch High 30MHz – 1GHz (5310 MHz)



Ch High 1GHz – 6GHz

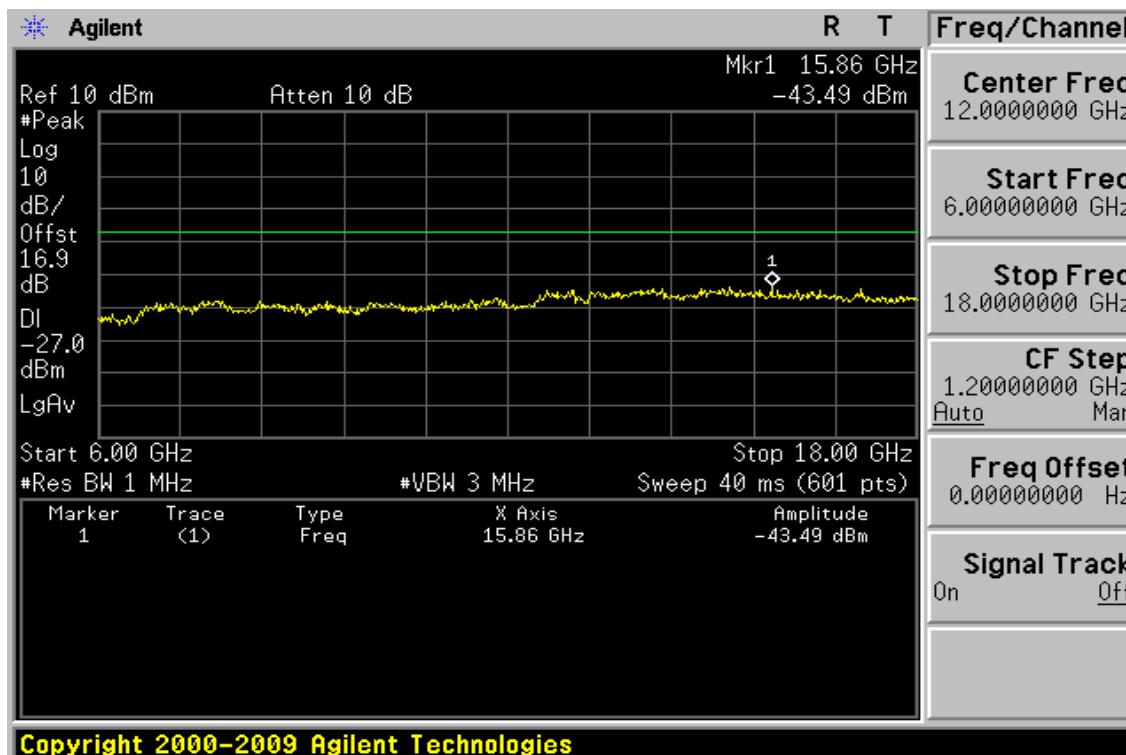


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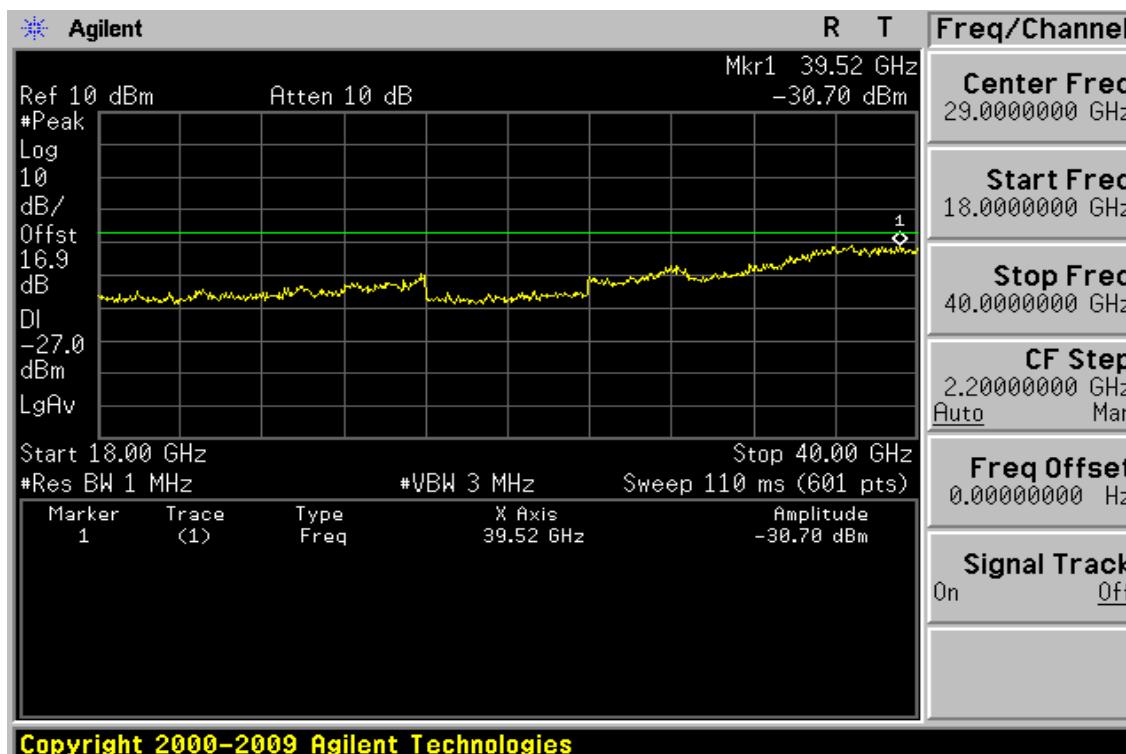
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



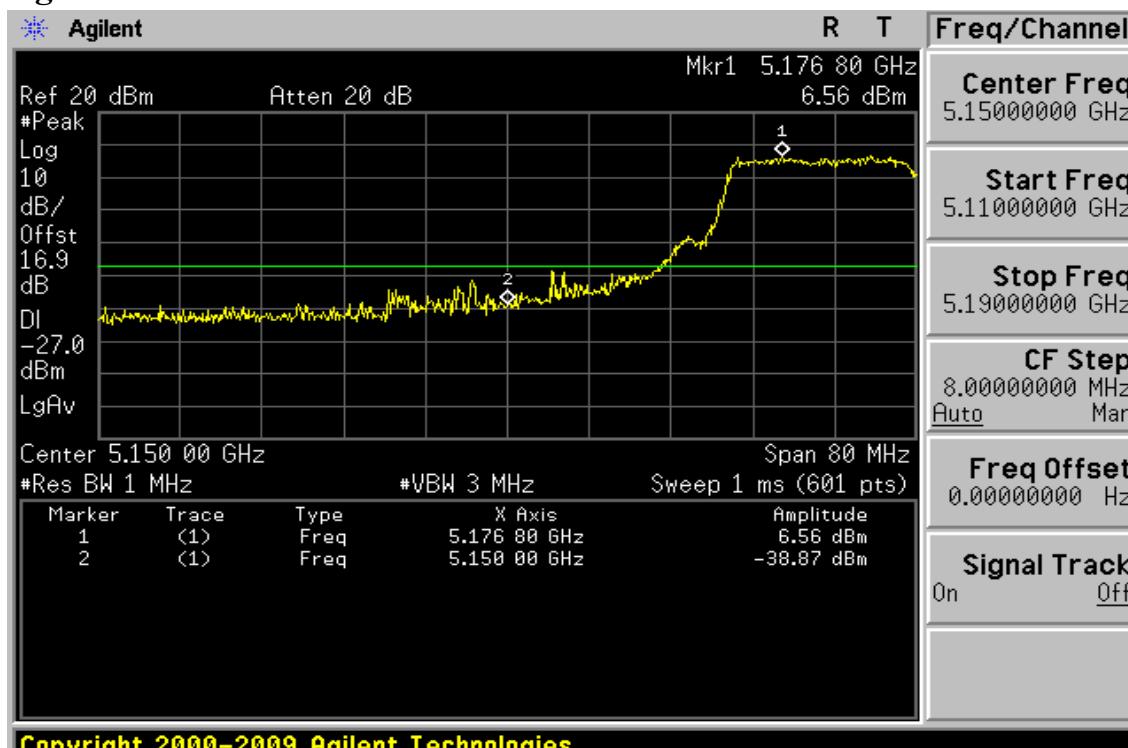
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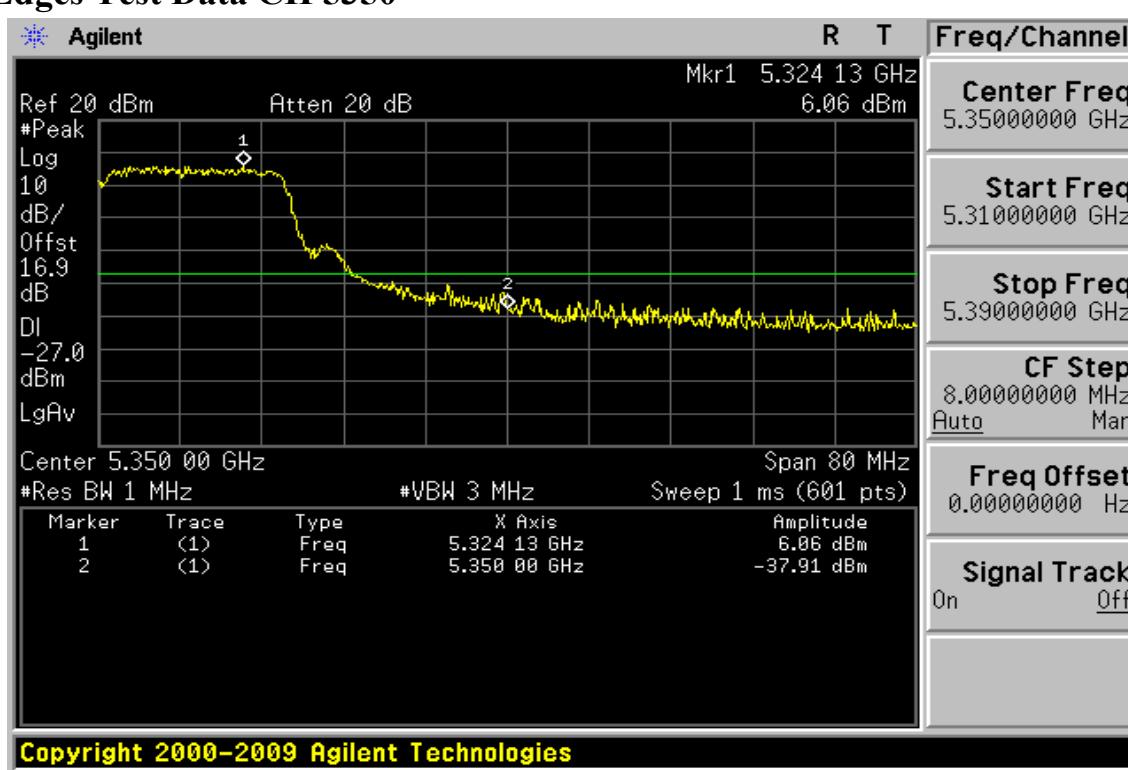
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802.11n HT40 5150~5350 MHz

Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



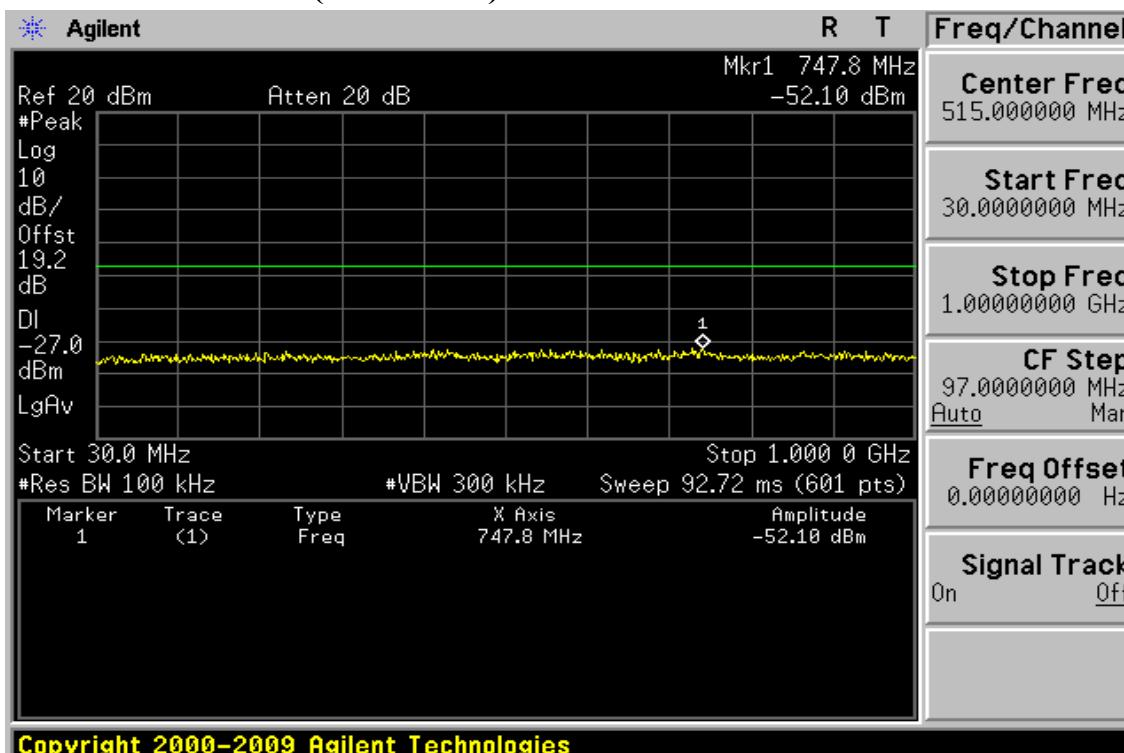
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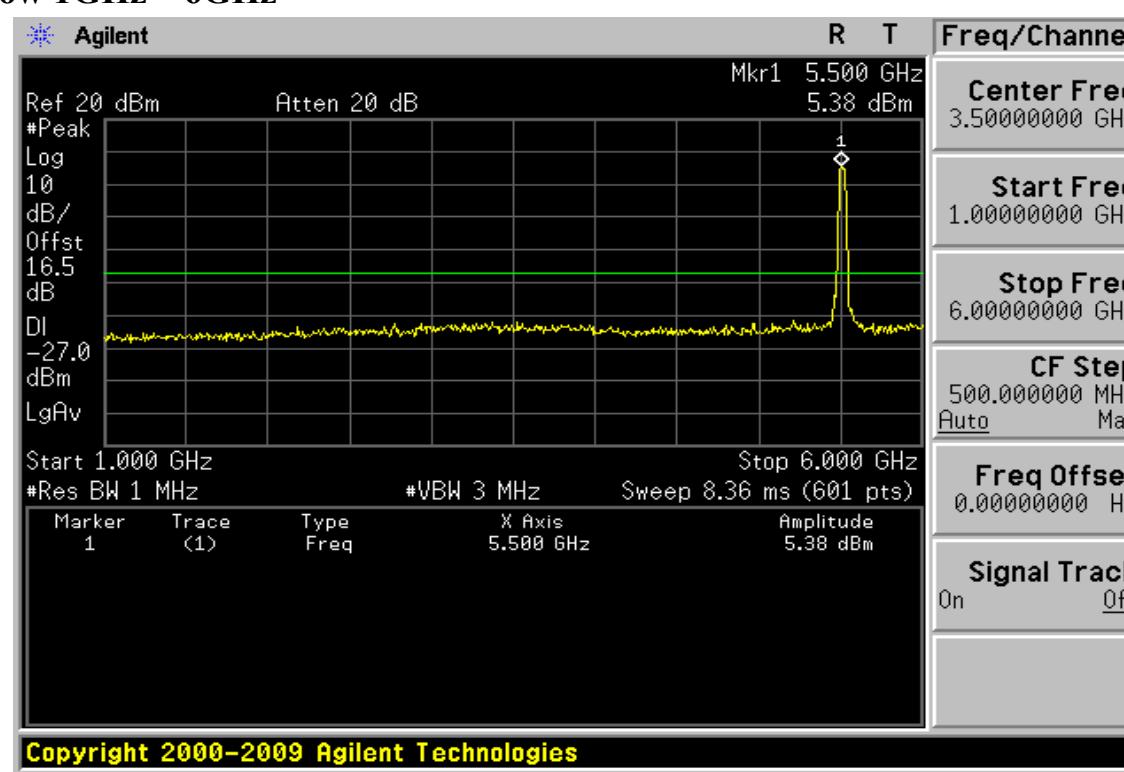
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802.11n HT40, 5470~5725 MHz

Ch Low 30MHz – 1GHz (5510 MHz)



Ch Low 1GHz – 6GHz

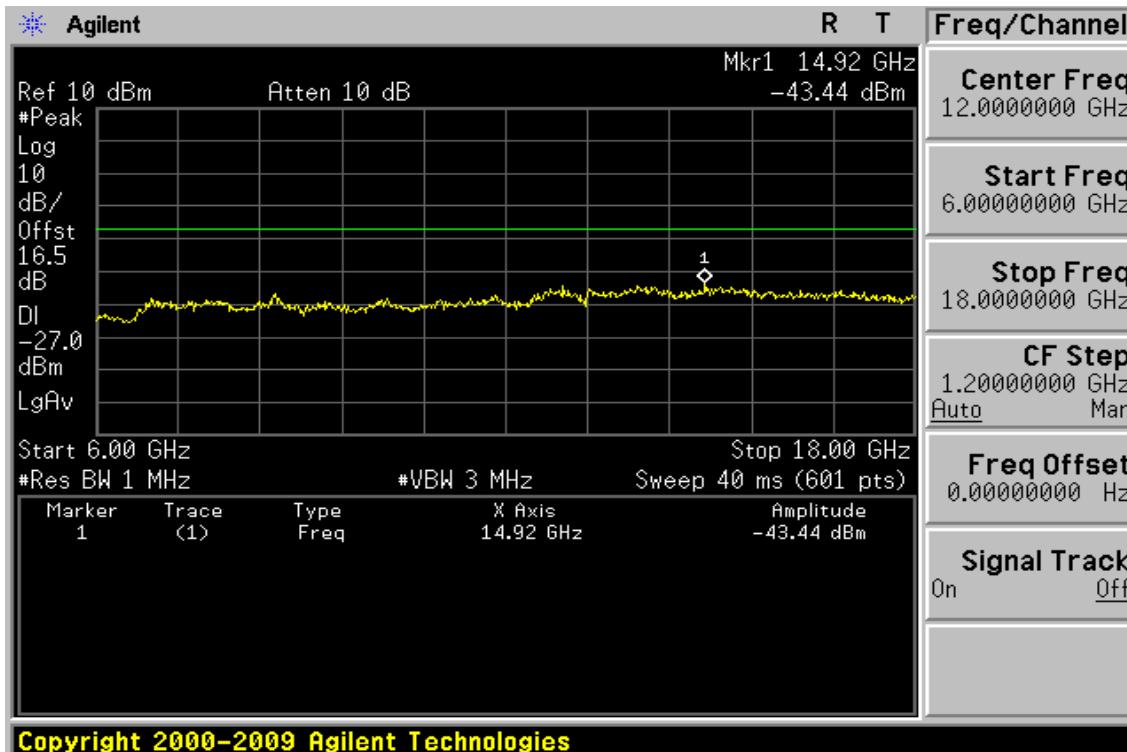


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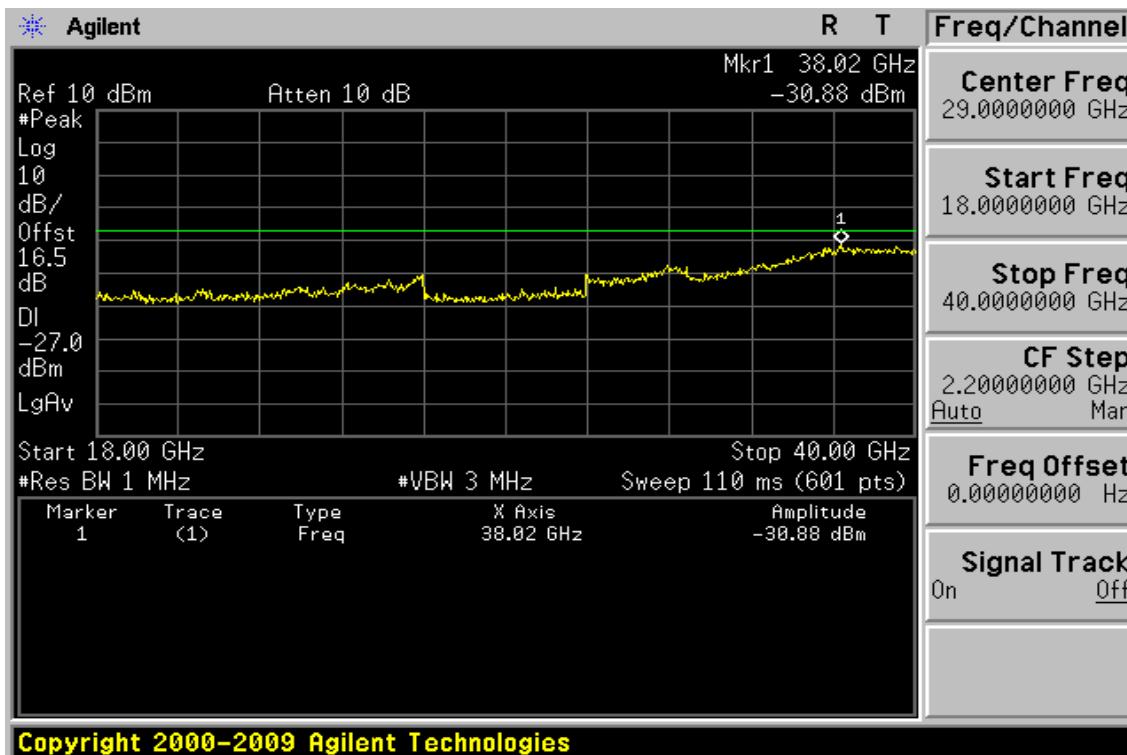
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

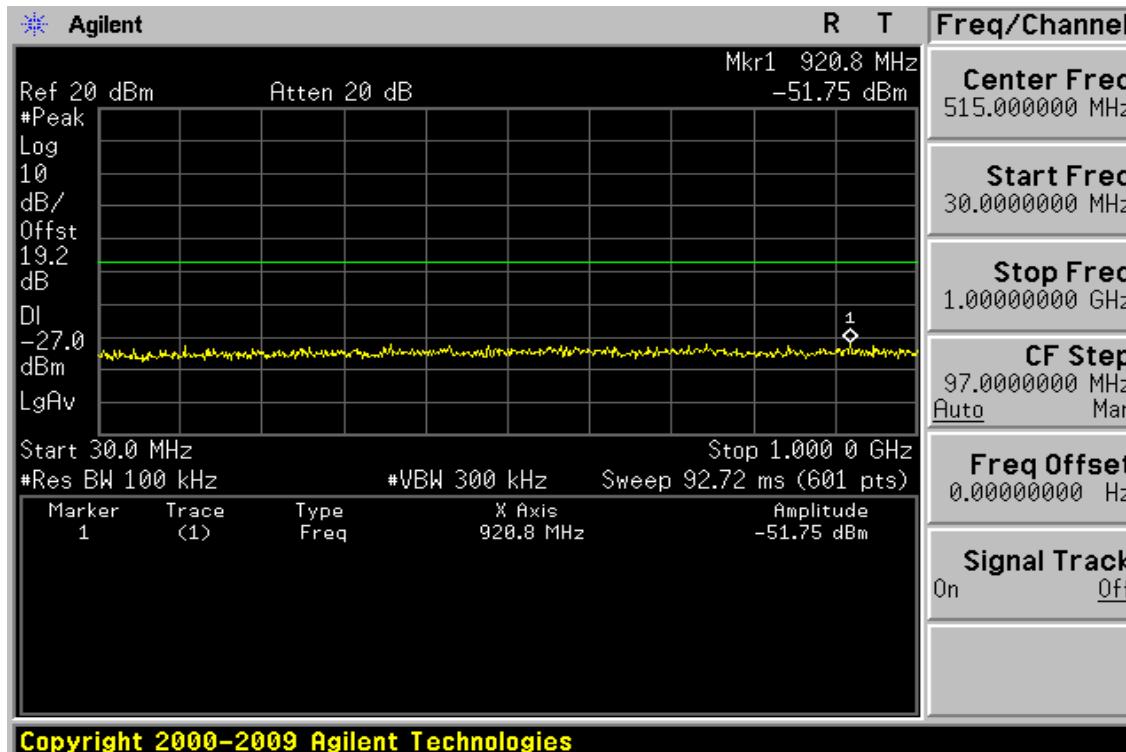


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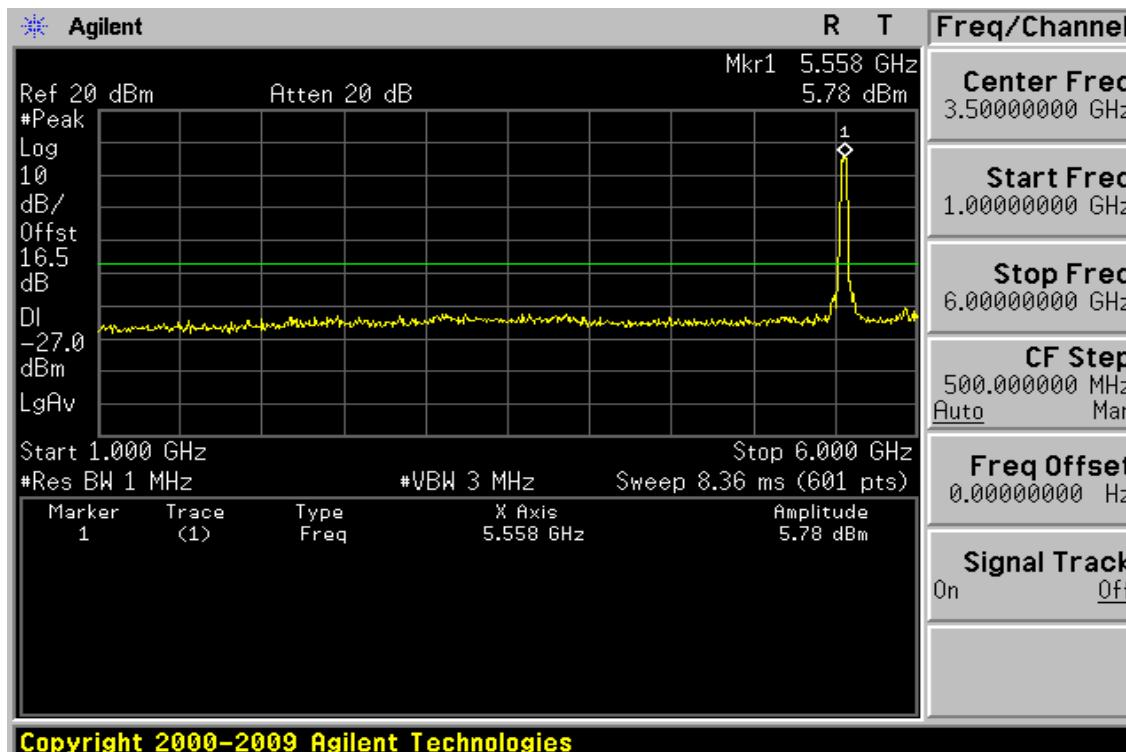
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Ch Mid 30MHz – 1GHz (5550 MHz)



Ch Mid 1GHz – 6GHz

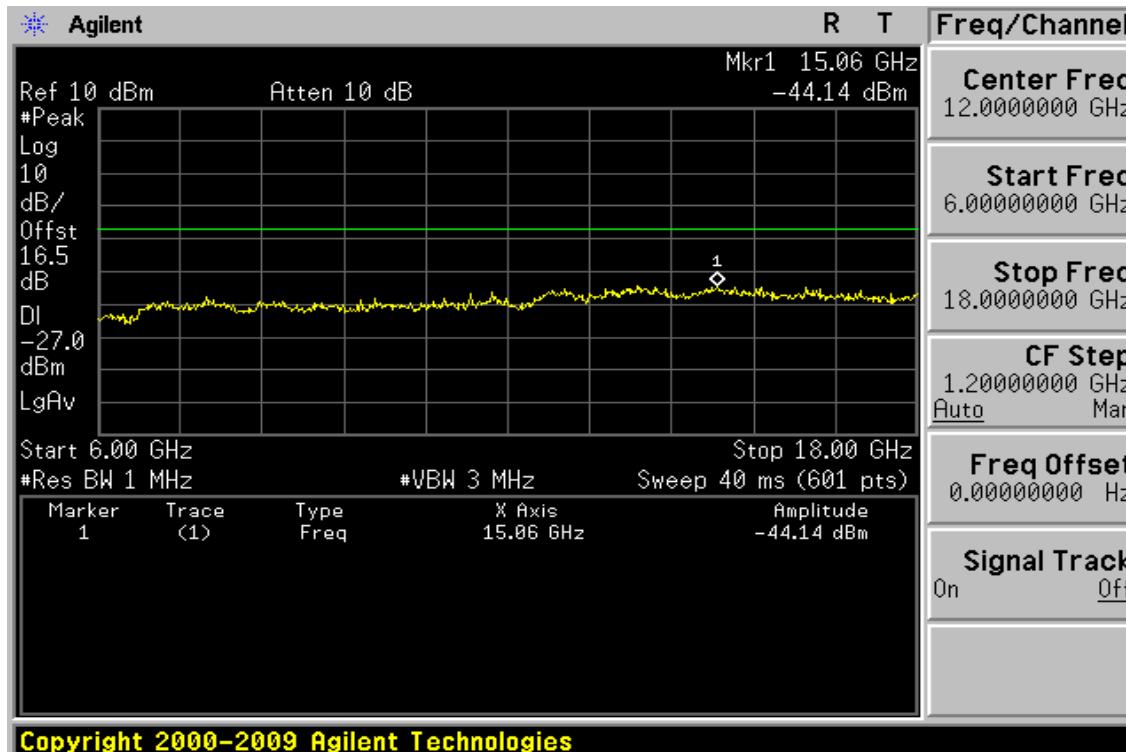


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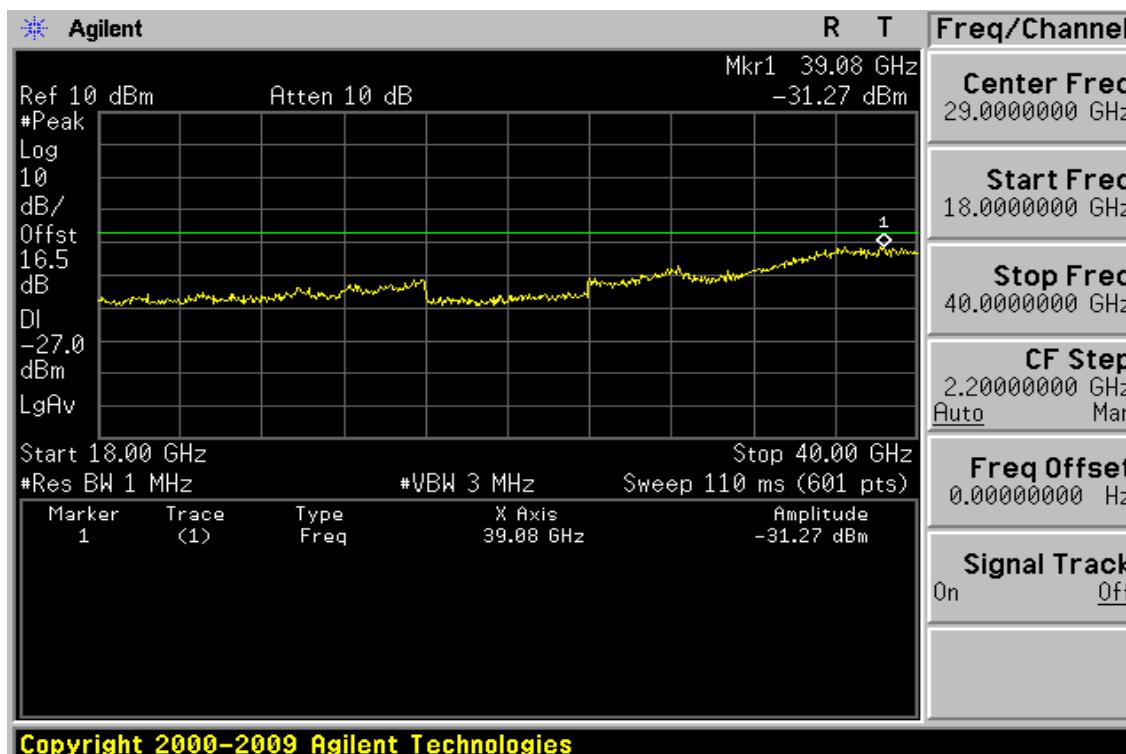
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

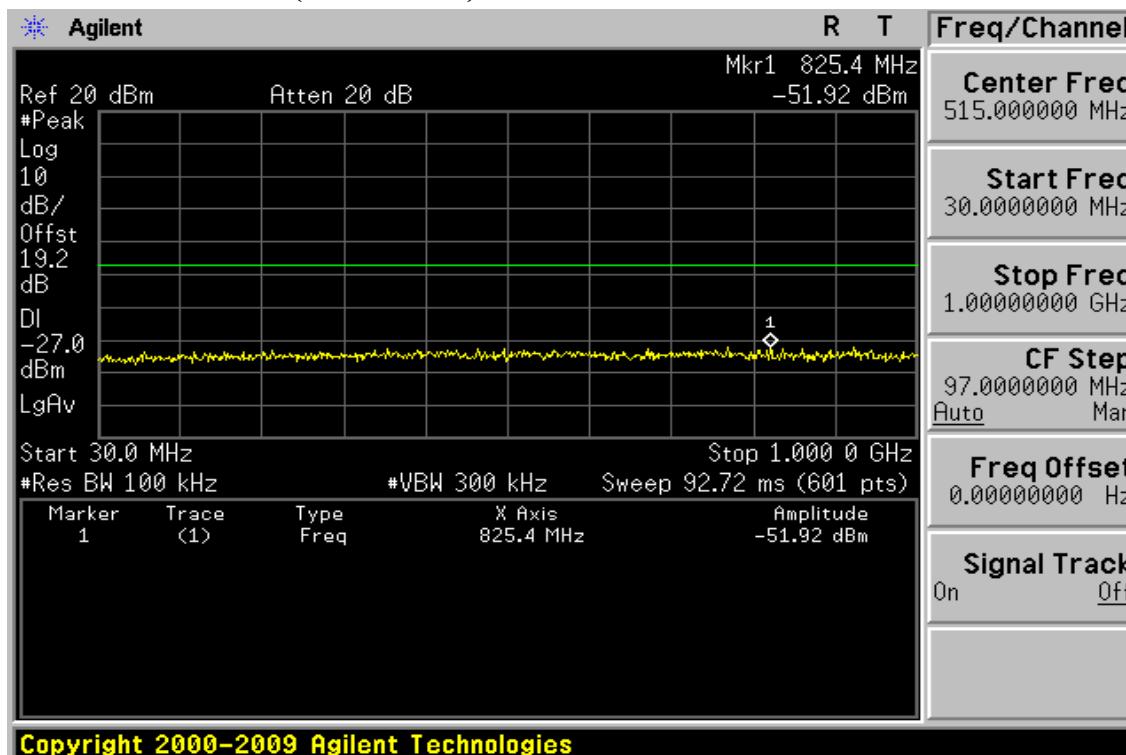


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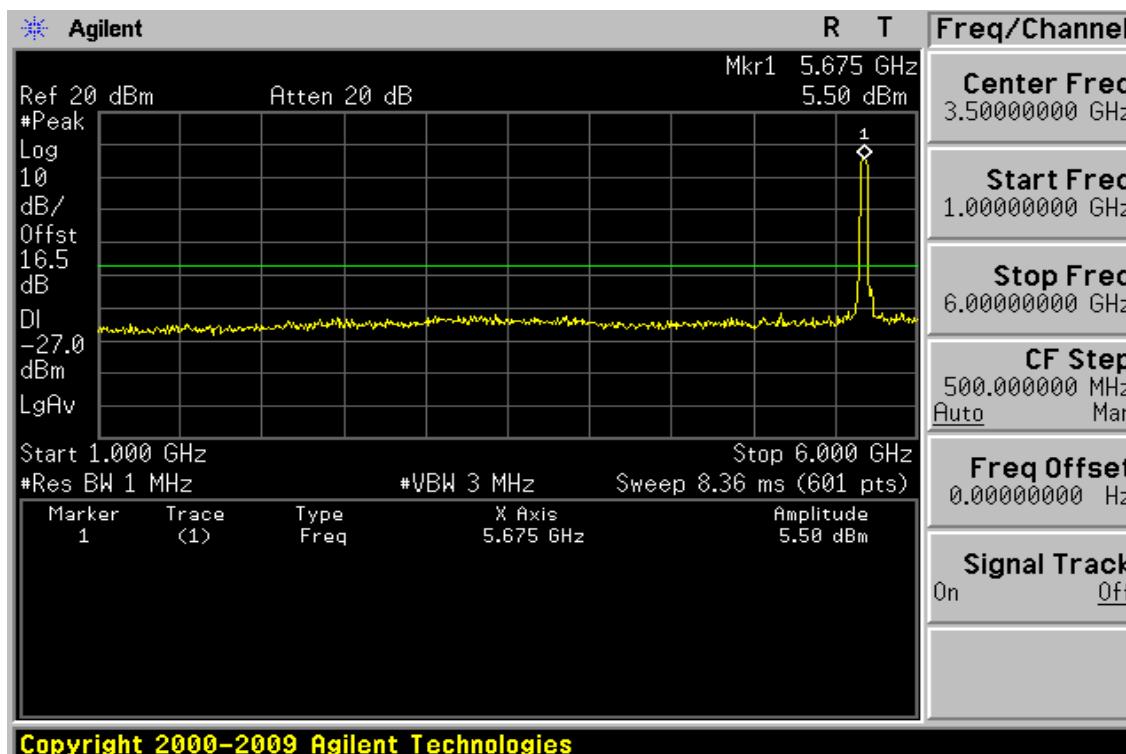
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Ch High 30MHz – 1GHz (5670 MHz)



Ch High 1GHz – 6GHz

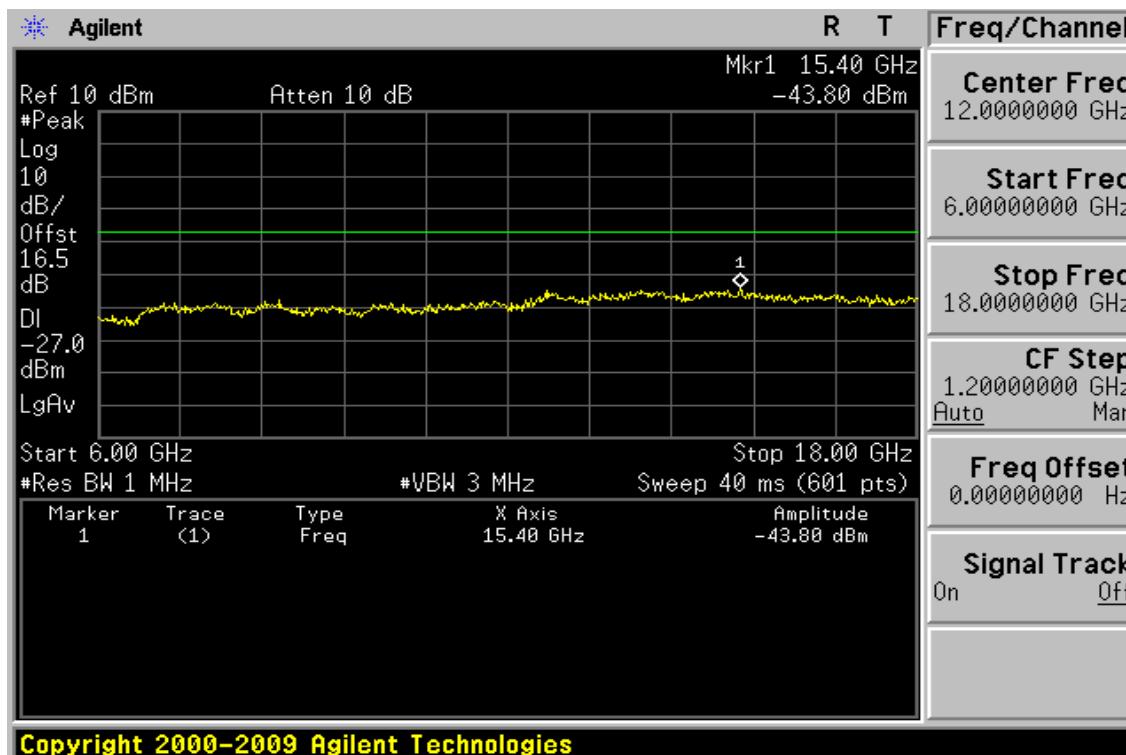


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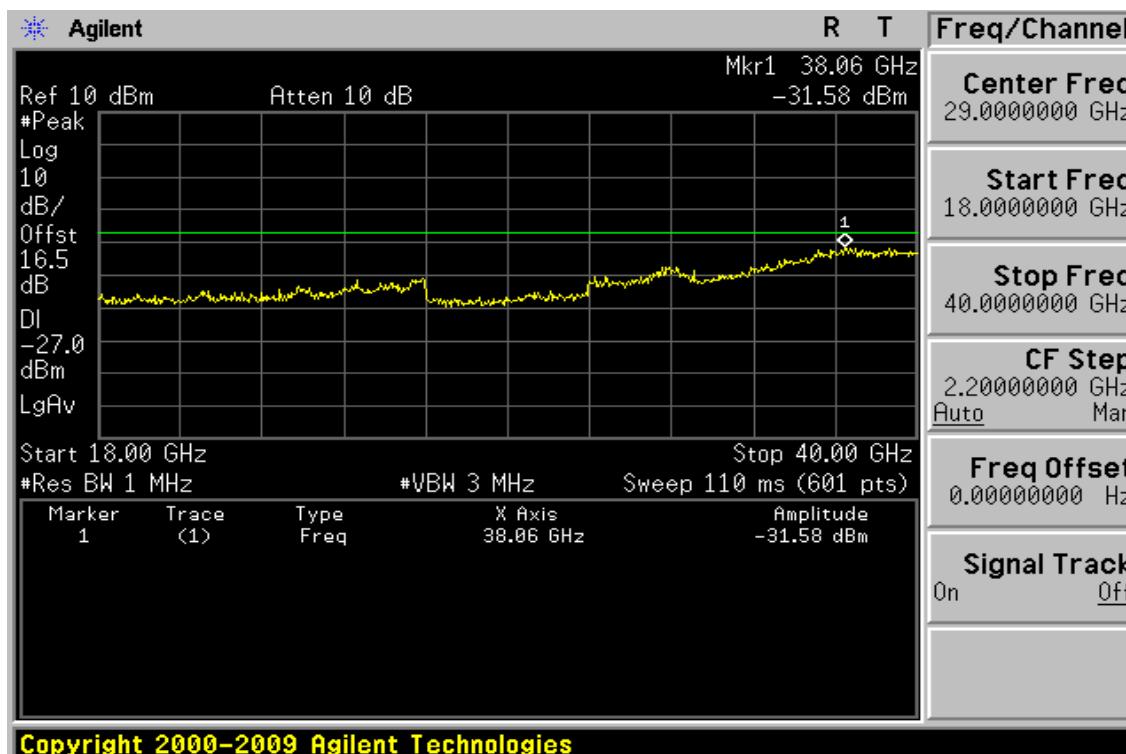
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

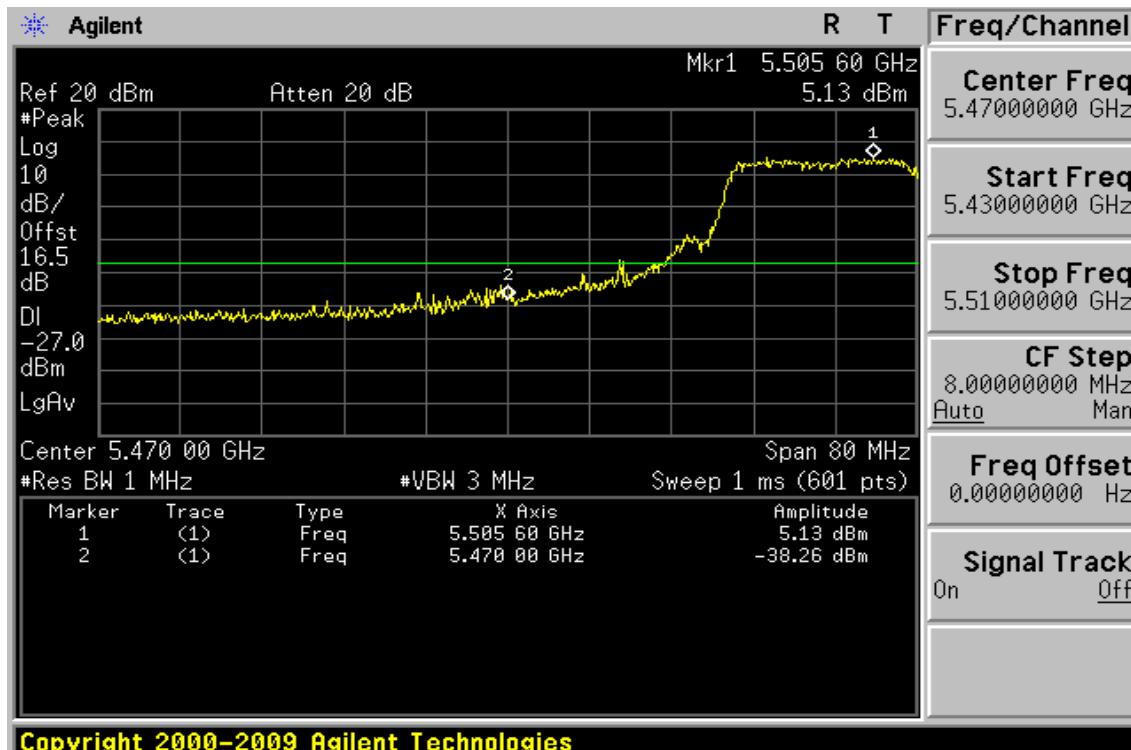


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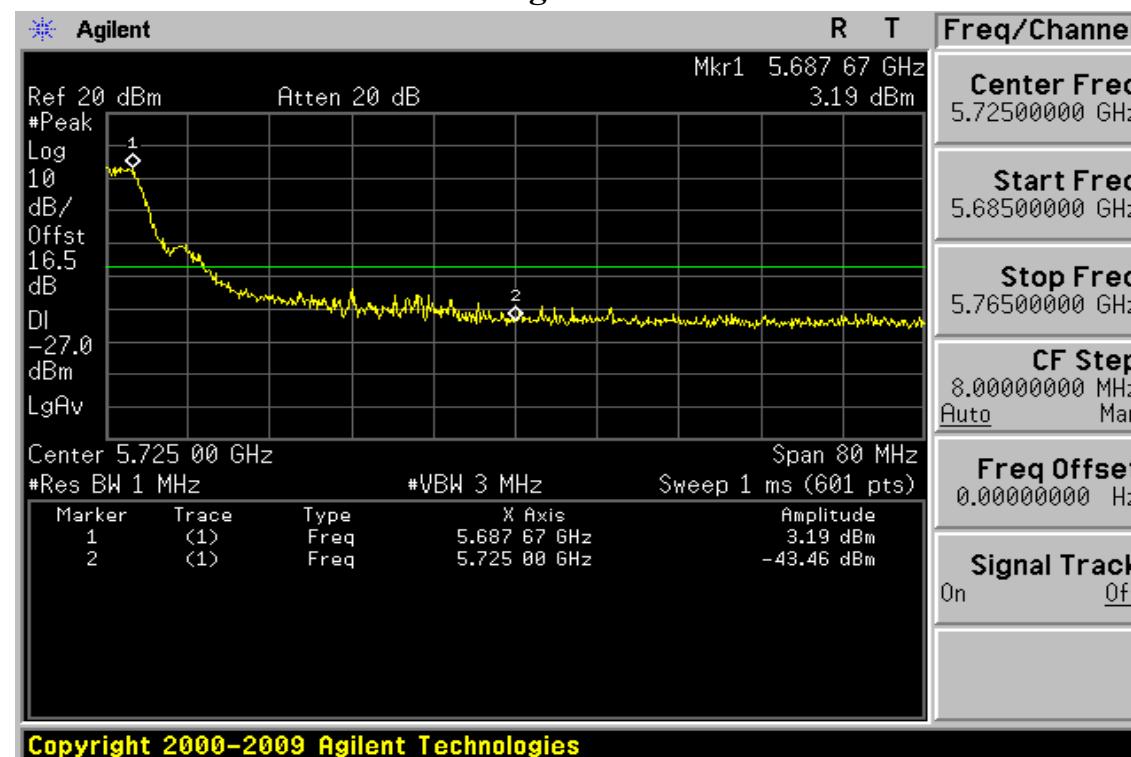
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802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5510



802.11n HT40 5470~5725 MHz Band Edges Test Data CH 5670



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12. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

12.1 Standard Applicable

According to §15.407(b) (6) (7),

(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) 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.
- (2) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (3) 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.

Procedure H1) a) b) c) are adopted, KDB 789033 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 6) 7), and RSS-Gen 7.2.2.

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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

According to RSS-Gen section 4.9 Transmitter Unwanted Emissions

The measurement method shall be described in the test report. When the applicable unwanted emissions limits are defined in relative terms, the same parameter, peak power or average power, used for the transmitter output power measurement, shall be used for unwanted emission measurements.

In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given in (a) and (b):

- (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

Particular attention should be paid to harmonics and sub-harmonics of the carrier frequency, as well as to those frequencies removed from the carrier by multiples of the oscillator frequency. Radiation at the frequencies of multiplier stages should also be checked.

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value need not be reported.

When limits are expressed in absolute terms, compliance with the emission limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth for emissions below 1000 MHz. As an alternative to CISPR quasi-peak measurement, compliance with the emission limits can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization as required, with an equal or greater measurement bandwidth relative to the applicable CISPR quasi-peak bandwidth.

Above 1000 MHz, compliance with the emission limits shall be demonstrated using an average detector with a minimum resolution bandwidth of 1 MHz.

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According to RSS-Gen section 7.2.2 Emissions Falling Within Restricted Frequency Bands

Restricted bands, identified in Table 1, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 1;
- (b) Unwanted emissions falling into restricted bands of Table 1 shall comply with the limits specified in RSS-Gen;
- (c) Unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.

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Table 3: Restricted Frequency Bands ^(Note)

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

Note: Certain frequency bands listed in Table 1 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300- series RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

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12.1.1 Transmitter Spurious Emission Limits

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

Table 5: General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

Note: Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

12.1.2 Unwanted Emission that complies with the undesirable emission ruling by 15.407 (b) (1) (2) (3), RSS-210 A9.2 (1) (2) (3)

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = ((E^2 \cdot d) / 30)$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

$$\begin{aligned} E &= 1000000 * (30 * EIRP)^{1/2} / 3 \text{ uV/m} \\ &= 68.3 \text{ dBuV/m} \end{aligned}$$

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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 C63.4:2009.
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.

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.

For measurements below 1GHz, follow the KDB 789033 D01 requirements in section H3), “General Requirements for Unwanted Emissions Measurements” Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

For Measurement above 1GHz, for peak unwanted emission measurements follow the KDB 789033 D01 requirements in section H5) b), for average unwanted emission measurements follow the KDB 789033 D01 requirements in section H6) c) or d).

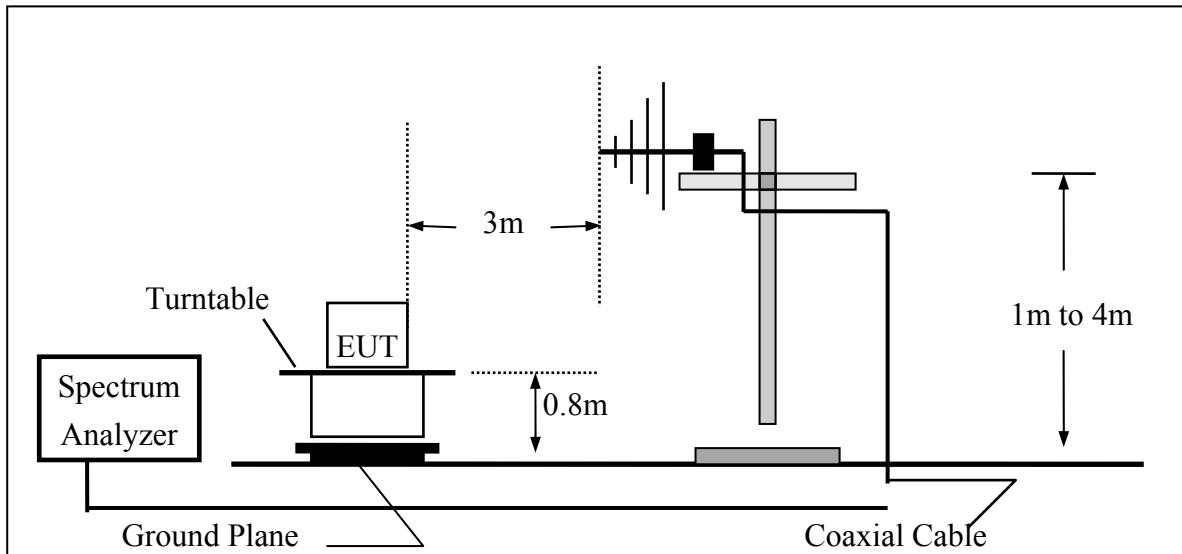
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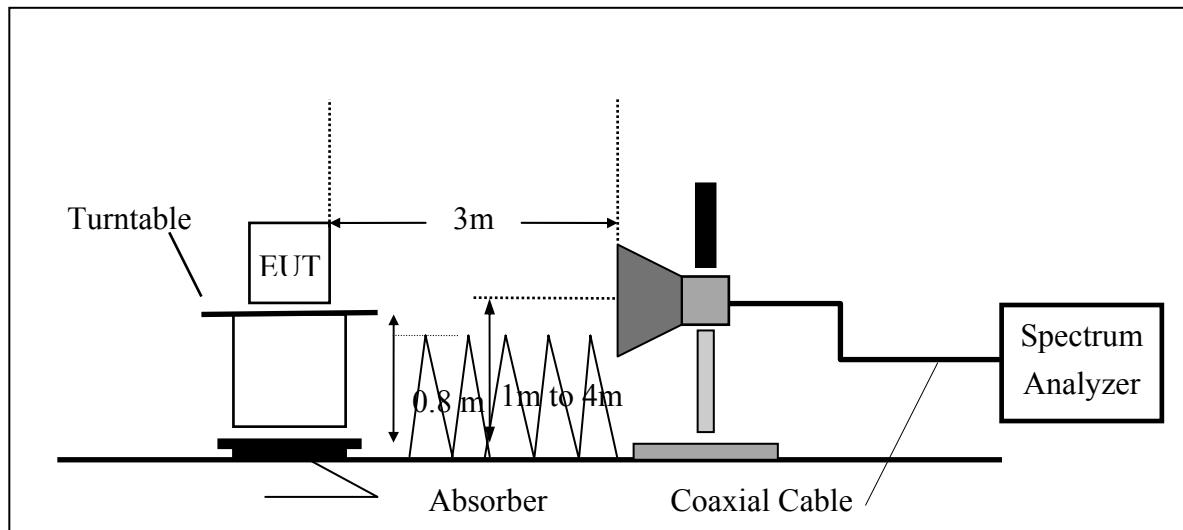
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12.4 Test SET-UP (Block Diagram of Configuration)

(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	02/08/2013	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
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	05/31/2013	05/30/2014
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/16/2014
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2013	01/03/2014
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2013	01/03/2014
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2013	01/03/2014
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/27/2014
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
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	01/04/2013	01/03/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

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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	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual FS dB μ V	Limit @3m	Margin
						dB μ V/m	dB μ V/m
39.70	S	Peak	46.74	-13.43	33.31	40.00	-6.69
207.51	S	Peak	36.27	-15.67	20.60	43.50	-22.90
311.30	S	Peak	37.80	-12.03	25.77	46.00	-20.23
518.88	S	Peak	30.03	-8.54	21.49	46.00	-24.51
622.67	S	Peak	36.18	-6.11	30.07	46.00	-15.93
749.74	S	Peak	30.38	-4.19	26.19	46.00	-19.81
10360.00	H	Peak	19.27	15.23	34.50	68.30	-33.80
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5180 MHz
Operation Mode :TX LOW
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V		
39.70	S	Peak	33.22	-13.43	19.79	40.00	-20.21
201.69	S	Peak	42.77	-15.82	26.95	43.50	-16.55
311.30	S	Peak	38.52	-12.03	26.49	46.00	-19.51
549.92	S	Peak	31.04	-7.84	23.20	46.00	-22.80
622.67	S	Peak	36.07	-6.11	29.96	46.00	-16.04
776.90	S	Peak	28.78	-3.90	24.88	46.00	-21.12
10360.00	H	Peak	19.19	15.26	34.45	68.30	-33.85
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5220 MHz
Operation Mode :TX MID
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	47.21	-13.43	33.78	40.00	-6.22
210.42	S	Peak	37.42	-15.59	21.83	43.50	-21.67
311.30	S	Peak	35.93	-12.03	23.90	46.00	-22.10
549.92	S	Peak	29.72	-7.84	21.88	46.00	-24.12
622.67	S	Peak	35.64	-6.11	29.53	46.00	-16.47
749.74	S	Peak	30.86	-4.19	26.67	46.00	-19.33
10440.00	H	Peak	20.07	15.37	35.44	68.30	-32.86
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5220 MHz
Operation Mode :TX MID
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	33.97	-13.43	20.54	40.00	-19.46
198.78	S	Peak	42.79	-15.81	26.98	43.50	-16.52
311.30	S	Peak	38.90	-12.03	26.87	46.00	-19.13
466.50	S	Peak	33.48	-9.37	24.11	46.00	-21.89
600.36	S	Peak	36.68	-6.67	30.01	46.00	-15.99
819.58	S	Peak	28.60	-3.56	25.04	46.00	-20.96
10440.00	H	Peak	19.08	15.45	34.53	68.30	-33.77
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5240 MHz
Operation Mode :TX HIGH
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
40.67	S	Peak	45.54	-13.43	32.11	40.00	-7.89
217.21	S	Peak	35.77	-15.15	20.62	46.00	-25.38
311.30	S	Peak	36.55	-12.03	24.52	46.00	-21.48
549.92	S	Peak	29.85	-7.84	22.01	46.00	-23.99
622.67	S	Peak	35.60	-6.11	29.49	46.00	-16.51
749.74	S	Peak	31.04	-4.19	26.85	46.00	-19.15
10480.00	H	Peak	18.89	15.33	34.22	68.30	-34.08
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5240 MHz
Operation Mode :TX HIGH
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	33.46	-13.43	20.03	40.00	-19.97
193.93	S	Peak	42.08	-15.58	26.50	43.50	-17.00
311.30	S	Peak	39.15	-12.03	27.12	46.00	-18.88
549.92	S	Peak	31.20	-7.84	23.36	46.00	-22.64
622.67	S	Peak	35.79	-6.11	29.68	46.00	-16.32
755.56	S	Peak	28.06	-4.13	23.93	46.00	-22.07
10480.00	H	Peak	18.63	15.42	34.05	68.30	-34.25
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	35.21	8.08	43.29	54.00	-10.71	
5150.00	E	Peak	57.01	8.08	65.09	74.00	-8.91	

Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	34.01	8.18	42.19	54.00	-11.81	
5150.00	E	Peak	58.85	8.18	67.03	74.00	-6.97	

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

Operation Band	:802.11 n20M	Test Date	:2013-09-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	46.99	-13.43	33.56	40.00	-6.44
208.48	S	Peak	37.09	-15.66	21.43	43.50	-22.07
311.30	S	Peak	38.79	-12.03	26.76	46.00	-19.24
483.96	S	Peak	30.39	-9.18	21.21	46.00	-24.79
622.67	S	Peak	35.49	-6.11	29.38	46.00	-16.62
749.74	S	Peak	30.23	-4.19	26.04	46.00	-19.96
10360.00	H	Peak	19.62	15.23	34.85	68.30	-33.45
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5180 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	33.40	-13.43	19.97	40.00	-20.03
193.93	S	Peak	42.68	-15.58	27.10	43.50	-16.40
311.30	S	Peak	39.47	-12.03	27.44	46.00	-18.56
466.50	S	Peak	32.87	-9.37	23.50	46.00	-22.50
622.67	S	Peak	35.74	-6.11	29.63	46.00	-16.37
766.23	S	Peak	28.31	-4.01	24.30	46.00	-21.70
10360.00	H	Peak	19.79	15.26	35.05	68.30	-33.25
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5220 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	46.33	-13.43	32.90	40.00	-7.10
203.63	S	Peak	36.39	-15.78	20.61	43.50	-22.89
311.30	S	Peak	37.20	-12.03	25.17	46.00	-20.83
587.75	S	Peak	27.55	-6.99	20.56	46.00	-25.44
622.67	S	Peak	35.86	-6.11	29.75	46.00	-16.25
749.74	S	Peak	29.97	-4.19	25.78	46.00	-20.22
10440.00	H	Peak	18.95	15.37	34.32	68.30	-33.98
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5220 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
38.73	S	Peak	33.36	-13.55	19.81	40.00	-20.19
193.93	S	Peak	41.95	-15.58	26.37	43.50	-17.13
311.30	S	Peak	38.28	-12.03	26.25	46.00	-19.75
466.50	S	Peak	33.23	-9.37	23.86	46.00	-22.14
622.67	S	Peak	35.58	-6.11	29.47	46.00	-16.53
830.25	S	Peak	27.55	-3.44	24.11	46.00	-21.89
10440.00	H	Peak	19.83	15.45	35.28	68.30	-33.02
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5240 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	46.53	-13.43	33.10	40.00	-6.90
207.51	S	Peak	36.26	-15.67	20.59	43.50	-22.91
311.30	S	Peak	36.02	-12.03	23.99	46.00	-22.01
589.69	S	Peak	28.94	-6.93	22.01	46.00	-23.99
622.67	S	Peak	36.04	-6.11	29.93	46.00	-16.07
749.74	S	Peak	30.67	-4.19	26.48	46.00	-19.52
10480.00	H	Peak	18.65	15.33	33.98	68.30	-34.32
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5240 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	32.73	-13.43	19.30	40.00	-20.70
193.93	S	Peak	41.50	-15.58	25.92	43.50	-17.58
311.30	S	Peak	39.98	-12.03	27.95	46.00	-18.05
466.50	S	Peak	32.79	-9.37	23.42	46.00	-22.58
622.67	S	Peak	35.81	-6.11	29.70	46.00	-16.30
773.02	S	Peak	28.86	-3.94	24.92	46.00	-21.08
10480.00	H	Peak	19.13	15.42	34.55	68.30	-33.75
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	36.89	8.08	44.97	54.00	-9.03	
5150.00	E	Peak	56.32	8.08	64.40	74.00	-9.60	

Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5180 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	35.57	8.18	43.75	54.00	-10.25	
5150.00	E	Peak	55.94	8.18	64.12	74.00	-9.88	

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

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5190 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	47.48	-13.43	34.05	40.00	-5.95
211.39	S	Peak	37.52	-15.53	21.99	43.50	-21.51
311.30	S	Peak	39.55	-12.03	27.52	46.00	-18.48
518.88	S	Peak	31.42	-8.54	22.88	46.00	-23.12
622.67	S	Peak	35.96	-6.11	29.85	46.00	-16.15
749.74	S	Peak	30.02	-4.19	25.83	46.00	-20.17
10380.00	H	Peak	19.07	15.27	34.34	68.30	-33.96
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5190 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	34.78	-13.43	21.35	40.00	-18.65
193.93	S	Peak	42.56	-15.58	26.98	43.50	-16.52
311.30	S	Peak	42.15	-12.03	30.12	46.00	-15.88
518.88	S	Peak	32.75	-8.54	24.21	46.00	-21.79
600.36	S	Peak	39.61	-6.67	32.94	46.00	-13.06
726.46	S	Peak	29.26	-4.48	24.78	46.00	-21.22
10380.00	H	Peak	19.60	15.32	34.92	68.30	-33.38
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5230 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	46.87	-13.43	33.44	40.00	-6.56
213.33	S	Peak	36.84	-15.40	21.44	43.50	-22.06
311.30	S	Peak	38.89	-12.03	26.86	46.00	-19.14
518.88	S	Peak	30.90	-8.54	22.36	46.00	-23.64
622.67	S	Peak	36.39	-6.11	30.28	46.00	-15.72
749.74	S	Peak	31.14	-4.19	26.95	46.00	-19.05
10460.00	H	Peak	18.65	15.35	34.00	68.30	-34.30
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5230 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	34.28	-13.43	20.85	40.00	-19.15
200.72	S	Peak	42.82	-15.86	26.96	43.50	-16.54
311.30	S	Peak	40.90	-12.03	28.87	46.00	-17.13
518.88	S	Peak	31.56	-8.54	23.02	46.00	-22.98
622.67	S	Peak	35.29	-6.11	29.18	46.00	-16.82
749.74	S	Peak	28.60	-4.19	24.41	46.00	-21.59
10460.00	H	Peak	19.10	15.43	34.53	68.30	-33.77
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	41.05	8.08	49.13	54.00	-4.87	
5150.00	E	Peak	60.20	8.08	68.28	74.00	-5.72	

Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5190 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5150.00	E	Average	39.00	8.18	47.18	54.00	-6.82	
5150.00	E	Peak	57.31	8.18	65.49	74.00	-8.51	

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

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5260 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	47.13	-13.43	33.70	40.00	-6.30
208.48	S	Peak	36.96	-15.66	21.30	43.50	-22.20
311.30	S	Peak	36.24	-12.03	24.21	46.00	-21.79
549.92	S	Peak	29.61	-7.84	21.77	46.00	-24.23
622.67	S	Peak	36.27	-6.11	30.16	46.00	-15.84
749.74	S	Peak	30.60	-4.19	26.41	46.00	-19.59
10520.00	H	Peak	19.79	15.52	35.31	68.30	-32.99
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5260 MHz
Operation Mode :TX LOW
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	34.13	-13.43	20.70	40.00	-19.30
186.17	S	Peak	41.74	-14.94	26.80	43.50	-16.70
311.30	S	Peak	38.41	-12.03	26.38	46.00	-19.62
549.92	S	Peak	31.12	-7.84	23.28	46.00	-22.72
622.67	S	Peak	36.56	-6.11	30.45	46.00	-15.55
778.84	S	Peak	28.64	-3.89	24.75	46.00	-21.25
10520.00	H	Peak	19.15	15.61	34.76	68.30	-33.54
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5300 MHz
Operation Mode :TX MID
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	47.16	-13.43	33.73	40.00	-6.27
209.45	S	Peak	36.96	-15.63	21.33	43.50	-22.17
311.30	S	Peak	37.80	-12.03	25.77	46.00	-20.23
570.29	S	Peak	28.69	-7.40	21.29	46.00	-24.71
622.67	S	Peak	35.60	-6.11	29.49	46.00	-16.51
749.74	S	Peak	30.32	-4.19	26.13	46.00	-19.87
10600.00	H	Average	18.21	15.72	33.93	54.00	-20.07
10600.00	H	Peak	18.79	15.72	34.51	74.00	-39.49
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band :802.11 a
 Fundamental Frequency :5300 MHz
 Operation Mode :TX MID
 EUT Pol. :E1 Plan

Test Date :2013-09-09
 Temp./Humi. :24 deg_C / 61 RH
 Engineer :Allen
 Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	32.31	-13.43	18.88	40.00	-21.12
199.75	S	Peak	42.52	-15.86	26.66	43.50	-16.84
311.30	S	Peak	38.84	-12.03	26.81	46.00	-19.19
549.92	S	Peak	32.30	-7.84	24.46	46.00	-21.54
622.67	S	Peak	36.44	-6.11	30.33	46.00	-15.67
824.43	S	Peak	28.04	-3.50	24.54	46.00	-21.46
10600.00	H	Average	18.03	15.74	33.77	54.00	-20.23
10600.00	H	Peak	18.54	15.74	34.28	74.00	-39.72
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5320 MHz
Operation Mode :TX HIGH
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual		Margin dB
					PK/QP/AV	dB μ V	
39.70	S	Peak	45.18	-13.43	31.75	40.00	-8.25
203.63	S	Peak	36.03	-15.78	20.25	43.50	-23.25
311.30	S	Peak	36.94	-12.03	24.91	46.00	-21.09
549.92	S	Peak	30.01	-7.84	22.17	46.00	-23.83
622.67	S	Peak	36.06	-6.11	29.95	46.00	-16.05
749.74	S	Peak	30.25	-4.19	26.06	46.00	-19.94
10640.00	H	Average	21.33	15.95	37.28	54.00	-16.72
10640.00	H	Peak	23.88	15.95	39.83	74.00	-34.17
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band :802.11 a
 Fundamental Frequency :5320 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E1 Plan

Test Date :2013-09-09
 Temp./Humi. :24 deg_C / 61 RH
 Engineer :Allen
 Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
39.70	S	Peak	34.50	-13.43	21.07	40.00	-18.93
193.93	S	Peak	42.30	-15.58	26.72	43.50	-16.78
311.30	S	Peak	39.03	-12.03	27.00	46.00	-19.00
549.92	S	Peak	31.57	-7.84	23.73	46.00	-22.27
622.67	S	Peak	35.47	-6.11	29.36	46.00	-16.64
811.82	S	Peak	28.15	-3.63	24.52	46.00	-21.48
10640.00	H	Average	22.14	15.94	38.08	54.00	-15.92
10640.00	H	Peak	24.15	15.94	40.09	74.00	-33.91
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	32.35	8.24	40.59	54.00	-13.41	
5350.00	E	Peak	51.42	8.24	59.66	74.00	-14.34	

Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	36.28	8.54	44.82	54.00	-9.18	
5350.00	E	Peak	53.24	8.54	61.78	74.00	-12.22	

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

Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5260 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
39.70	S	Peak	46.84	-13.43	33.41	40.00	-6.59
207.51	S	Peak	37.17	-15.67	21.50	43.50	-22.00
311.30	S	Peak	36.26	-12.03	24.23	46.00	-21.77
549.92	S	Peak	29.96	-7.84	22.12	46.00	-23.88
622.67	S	Peak	36.90	-6.11	30.79	46.00	-15.21
749.74	S	Peak	30.05	-4.19	25.86	46.00	-20.14
10520.00	H	Peak	19.31	15.52	34.83	68.30	-33.47
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5260 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	34.11	-13.43	20.68	40.00	-19.32
201.69	S	Peak	42.57	-15.82	26.75	43.50	-16.75
311.30	S	Peak	38.92	-12.03	26.89	46.00	-19.11
549.92	S	Peak	31.44	-7.84	23.60	46.00	-22.40
622.67	S	Peak	36.36	-6.11	30.25	46.00	-15.75
768.17	S	Peak	28.47	-3.98	24.49	46.00	-21.51
10520.00	H	Peak	19.19	15.61	34.80	68.30	-33.50
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5300 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	46.29	-13.43	32.86	40.00	-7.14
209.45	S	Peak	37.20	-15.63	21.57	43.50	-21.93
311.30	S	Peak	36.22	-12.03	24.19	46.00	-21.81
570.29	S	Peak	28.77	-7.40	21.37	46.00	-24.63
622.67	S	Peak	36.03	-6.11	29.92	46.00	-16.08
749.74	S	Peak	29.91	-4.19	25.72	46.00	-20.28
10600.00	H	Average	18.54	15.72	34.26	54.00	-19.74
10600.00	H	Peak	19.07	15.72	34.79	74.00	-39.21
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5300 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	33.29	-13.43	19.86	40.00	-20.14
196.84	S	Peak	42.51	-15.71	26.80	43.50	-16.70
311.30	S	Peak	40.79	-12.03	28.76	46.00	-17.24
549.92	S	Peak	31.45	-7.84	23.61	46.00	-22.39
622.67	S	Peak	35.49	-6.11	29.38	46.00	-16.62
822.49	S	Peak	27.62	-3.53	24.09	46.00	-21.91
10600.00	H	Average	18.34	15.74	34.08	54.00	-19.92
10600.00	H	Peak	18.75	15.74	34.49	74.00	-39.51
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5320 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
38.73	S	Peak	45.57	-13.55	32.02	40.00	-7.98
209.45	S	Peak	36.36	-15.63	20.73	43.50	-22.77
311.30	S	Peak	37.30	-12.03	25.27	46.00	-20.73
570.29	S	Peak	30.13	-7.40	22.73	46.00	-23.27
622.67	S	Peak	36.62	-6.11	30.51	46.00	-15.49
749.74	S	Peak	30.00	-4.19	25.81	46.00	-20.19
10640.00	H	Average	21.75	15.95	37.70	54.00	-16.30
10640.00	H	Peak	23.34	15.95	39.29	74.00	-34.71
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
 Fundamental Frequency :5320 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	33.38	-13.43	19.95	40.00	-20.05
199.75	S	Peak	42.90	-15.86	27.04	43.50	-16.46
311.30	S	Peak	39.02	-12.03	26.99	46.00	-19.01
450.01	S	Peak	32.22	-9.52	22.70	46.00	-23.30
622.67	S	Peak	34.75	-6.11	28.64	46.00	-17.36
821.52	S	Peak	27.90	-3.53	24.37	46.00	-21.63
10640.00	H	Average	22.15	15.94	38.09	54.00	-15.91
10640.00	H	Peak	23.86	15.94	39.80	74.00	-34.20
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	34.44	8.24	42.68	54.00	-11.32	
5350.00	E	Peak	56.08	8.24	64.32	74.00	-9.68	

Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5320 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	32.52	8.54	41.06	54.00	-12.94	
5350.00	E	Peak	51.54	8.54	60.08	74.00	-13.92	

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

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5270 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	dB μ V/m	dB μ V/m
40.67	S	Peak	46.98	-13.43	33.55	40.00	-6.45
211.39	S	Peak	37.01	-15.53	21.48	43.50	-22.02
311.30	S	Peak	39.99	-12.03	27.96	46.00	-18.04
518.88	S	Peak	31.14	-8.54	22.60	46.00	-23.40
622.67	S	Peak	35.97	-6.11	29.86	46.00	-16.14
749.74	S	Peak	29.91	-4.19	25.72	46.00	-20.28
10540.00	H	Peak	19.68	15.62	35.30	68.30	-33.00
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5270 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	34.24	-13.43	20.81	40.00	-19.19
198.78	S	Peak	42.95	-15.81	27.14	43.50	-16.36
311.30	S	Peak	42.03	-12.03	30.00	46.00	-16.00
518.88	S	Peak	32.61	-8.54	24.07	46.00	-21.93
622.67	S	Peak	35.66	-6.11	29.55	46.00	-16.45
768.17	S	Peak	28.33	-3.98	24.35	46.00	-21.65
10540.00	H	Peak	19.58	15.69	35.27	68.30	-33.03
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5310 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX HIGH Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual		Margin dB
					PK/QP/AV	dB μ V	
39.70	S	Peak	47.32	-13.43	33.89	40.00	-6.11
206.54	S	Peak	37.48	-15.71	21.77	43.50	-21.73
311.30	S	Peak	40.07	-12.03	28.04	46.00	-17.96
553.80	S	Peak	30.10	-7.75	22.35	46.00	-23.65
622.67	S	Peak	36.02	-6.11	29.91	46.00	-16.09
749.74	S	Peak	30.38	-4.19	26.19	46.00	-19.81
10620.00	H	Average	21.58	15.83	37.41	54.00	-16.59
10620.00	H	Peak	24.73	15.83	40.56	74.00	-33.44
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
 Fundamental Frequency :5310 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
					Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
39.70	S	Peak	33.79	-13.43	20.36	40.00	-19.64
199.75	S	Peak	43.13	-15.86	27.27	43.50	-16.23
311.30	S	Peak	42.33	-12.03	30.30	46.00	-15.70
549.92	S	Peak	31.19	-7.84	23.35	46.00	-22.65
622.67	S	Peak	35.89	-6.11	29.78	46.00	-16.22
726.46	S	Peak	29.96	-4.48	25.48	46.00	-20.52
10620.00	H	Average	21.83	15.84	37.67	54.00	-16.33
10620.00	H	Peak	25.27	15.84	41.11	74.00	-32.89
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	37.43	8.24	45.67	54.00	-8.33	
5350.00	E	Peak	57.91	8.24	66.15	74.00	-7.85	

Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5310 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Average	35.42	8.54	43.96	54.00	-10.04	
5350.00	E	Peak	53.17	8.54	61.71	74.00	-12.29	

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

Operation Band	:802.11 a	Test Date	:2013-09-09
Fundamental Frequency	:5500 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
39.70	S	Peak	47.44	-13.43	34.01	40.00	-5.99
206.54	S	Peak	37.27	-15.71	21.56	43.50	-21.94
311.30	S	Peak	36.33	-12.03	24.30	46.00	-21.70
466.50	S	Peak	30.50	-9.37	21.13	46.00	-24.87
622.67	S	Peak	37.37	-6.11	31.26	46.00	-14.74
749.74	S	Peak	29.72	-4.19	25.53	46.00	-20.47
11000.00	H	Average	22.26	16.33	38.59	54.00	-15.41
11000.00	H	Peak	23.77	16.33	40.10	74.00	-33.90
16500.00	H	---	---				
22000.00	H	---	---				
27500.00	H	---	---				
33000.00	H	---	---				
38500.00	H	---	---				

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Operation Band :802.11 a
Fundamental Frequency :5500 MHz
Operation Mode :TX LOW
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
					dB μ V/m	dB μ V/m	dB
39.70	S	Peak	33.01	-13.43	19.58	40.00	-20.42
193.93	S	Peak	41.78	-15.58	26.20	43.50	-17.30
311.30	S	Peak	38.92	-12.03	26.89	46.00	-19.11
549.92	S	Peak	31.11	-7.84	23.27	46.00	-22.73
622.67	S	Peak	35.44	-6.11	29.33	46.00	-16.67
781.75	S	Peak	28.00	-3.87	24.13	46.00	-21.87
11000.00	H	Average	21.83	16.23	38.06	54.00	-15.94
11000.00	H	Peak	23.46	16.23	39.69	74.00	-34.31
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band :802.11 a
 Fundamental Frequency :5580 MHz
 Operation Mode :TX MID
 EUT Pol. :E1 Plan

Test Date :2013-09-09
 Temp./Humi. :24 deg_C / 61 RH
 Engineer :Allen
 Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V		dB μ V/m	dB μ V/m	
39.70	S	Peak	48.25	-13.43	34.82	40.00	-5.18
214.30	S	Peak	36.93	-15.33	21.60	43.50	-21.90
311.30	S	Peak	36.34	-12.03	24.31	46.00	-21.69
549.92	S	Peak	29.59	-7.84	21.75	46.00	-24.25
622.67	S	Peak	36.60	-6.11	30.49	46.00	-15.51
749.74	S	Peak	29.63	-4.19	25.44	46.00	-20.56
11160.00	H	Average	22.85	16.88	39.73	54.00	-14.27
11160.00	H	Peak	24.13	16.88	41.01	74.00	-32.99
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5580 MHz
Operation Mode :TX MID
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	33.86	-13.43	20.43	40.00	-19.57
200.72	S	Peak	42.73	-15.86	26.87	43.50	-16.63
311.30	S	Peak	37.61	-12.03	25.58	46.00	-20.42
466.50	S	Peak	32.92	-9.37	23.55	46.00	-22.45
622.67	S	Peak	35.59	-6.11	29.48	46.00	-16.52
810.85	S	Peak	28.38	-3.64	24.74	46.00	-21.26
11160.00	H	Average	21.79	16.65	38.44	54.00	-15.56
11160.00	H	Peak	23.42	16.65	40.07	74.00	-33.93
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5700 MHz
Operation Mode :TX HIGH
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
					dB μ V/m	dB μ V/m	dB
39.70	S	Peak	47.84	-13.43	34.41	40.00	-5.59
207.51	S	Peak	37.50	-15.67	21.83	43.50	-21.67
311.30	S	Peak	36.81	-12.03	24.78	46.00	-21.22
549.92	S	Peak	28.79	-7.84	20.95	46.00	-25.05
622.67	S	Peak	35.05	-6.11	28.94	46.00	-17.06
749.74	S	Peak	29.81	-4.19	25.62	46.00	-20.38
11400.00	H	Average	22.61	17.43	40.04	54.00	-13.96
11400.00	H	Peak	25.53	17.43	42.96	74.00	-31.04
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band :802.11 a
Fundamental Frequency :5700 MHz
Operation Mode :TX HIGH
EUT Pol. :E1 Plan

Test Date :2013-09-09
Temp./Humi. :24 deg_C / 61 RH
Engineer :Allen
Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	33.62	-13.43	20.19	40.00	-19.81
193.93	S	Peak	42.07	-15.58	26.49	43.50	-17.01
311.30	S	Peak	39.07	-12.03	27.04	46.00	-18.96
549.92	S	Peak	32.08	-7.84	24.24	46.00	-21.76
622.67	S	Peak	35.83	-6.11	29.72	46.00	-16.28
726.46	S	Peak	29.25	-4.48	24.77	46.00	-21.23
11400.00	H	Average	21.72	17.19	38.91	54.00	-15.09
11400.00	H	Peak	25.13	17.19	42.32	74.00	-31.68
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	34.42	8.43	42.85	54.00	-11.15	
5460.00	E	Peak	53.16	8.43	61.59	74.00	-12.41	

Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	34.34	8.73	43.07	54.00	-10.93	
5460.00	E	Peak	52.60	8.73	61.33	74.00	-12.67	

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Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	58.31	8.44	66.75	68.30	-1.55	

Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	55.58	8.74	64.32	68.30	-3.98	

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Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	56.11	8.78	64.89	68.30	-3.41	

Operation Band	:802.11 a	Test Date	:2013-09-06
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	56.30	9.08	65.38	68.30	-2.92	

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

Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5500 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual		Margin dB
					PK/QP/AV	dB μ V	
39.70	S	Peak	47.40	-13.43	33.97	40.00	-6.03
210.42	S	Peak	36.80	-15.59	21.21	43.50	-22.29
311.30	S	Peak	36.25	-12.03	24.22	46.00	-21.78
549.92	S	Peak	29.01	-7.84	21.17	46.00	-24.83
622.67	S	Peak	35.77	-6.11	29.66	46.00	-16.34
749.74	S	Peak	30.20	-4.19	26.01	46.00	-19.99
11000.00	H	Average	21.99	16.33	38.32	54.00	-15.68
11000.00	H	Peak	23.27	16.33	39.60	74.00	-34.40
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5500 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	33.98	-13.43	20.55	40.00	-19.45
199.75	S	Peak	43.01	-15.86	27.15	43.50	-16.35
311.30	S	Peak	38.59	-12.03	26.56	46.00	-19.44
549.92	S	Peak	30.85	-7.84	23.01	46.00	-22.99
622.67	S	Peak	35.14	-6.11	29.03	46.00	-16.97
821.52	S	Peak	27.76	-3.53	24.23	46.00	-21.77
11000.00	H	Average	21.55	16.23	37.78	54.00	-16.22
11000.00	H	Peak	23.93	16.23	40.16	74.00	-33.84
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
Fundamental Frequency :5580 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	47.06	-13.43	33.63	40.00	-6.37
212.36	S	Peak	37.42	-15.45	21.97	43.50	-21.53
311.30	S	Peak	36.12	-12.03	24.09	46.00	-21.91
570.29	S	Peak	29.16	-7.40	21.76	46.00	-24.24
622.67	S	Peak	36.17	-6.11	30.06	46.00	-15.94
749.74	S	Peak	31.32	-4.19	27.13	46.00	-18.87
11160.00	H	Average	22.33	16.88	39.21	54.00	-14.79
11160.00	H	Peak	23.79	16.88	40.67	74.00	-33.33
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band :802.11 n20M **Test Date** :2013-09-09
Fundamental Frequency :5580 MHz **Temp./Humi.** :24 deg_C / 61 RH
Operation Mode :TX MID **Engineer** :Allen
EUT Pol. :E1 Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	35.20	-13.43	21.77	40.00	-18.23
199.75	S	Peak	41.90	-15.86	26.04	43.50	-17.46
311.30	S	Peak	40.03	-12.03	28.00	46.00	-18.00
549.92	S	Peak	30.87	-7.84	23.03	46.00	-22.97
622.67	S	Peak	34.93	-6.11	28.82	46.00	-17.18
839.95	S	Peak	28.04	-3.34	24.70	46.00	-21.30
11160.00	H	Average	22.41	16.65	39.06	54.00	-14.94
11160.00	H	Peak	24.90	16.65	41.55	74.00	-32.45
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
 Fundamental Frequency :5700 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
					Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
39.70	S	Peak	45.07	-13.43	31.64	40.00	-8.36
214.30	S	Peak	36.06	-15.33	20.73	43.50	-22.77
311.30	S	Peak	38.41	-12.03	26.38	46.00	-19.62
518.88	S	Peak	30.93	-8.54	22.39	46.00	-23.61
622.67	S	Peak	35.91	-6.11	29.80	46.00	-16.20
749.74	S	Peak	31.03	-4.19	26.84	46.00	-19.16
11400.00	H	Average	22.37	17.43	39.80	54.00	-14.20
11400.00	H	Peak	24.63	17.43	42.06	74.00	-31.94
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band :802.11 n20M Test Date :2013-09-09
 Fundamental Frequency :5700 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
					Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
39.70	S	Peak	34.09	-13.43	20.66	40.00	-19.34
199.75	S	Peak	42.63	-15.86	26.77	43.50	-16.73
311.30	S	Peak	41.62	-12.03	29.59	46.00	-16.41
549.92	S	Peak	31.41	-7.84	23.57	46.00	-22.43
622.67	S	Peak	35.84	-6.11	29.73	46.00	-16.27
726.46	S	Peak	29.67	-4.48	25.19	46.00	-20.81
11400.00	H	Average	21.72	17.19	38.91	54.00	-15.09
11400.00	H	Peak	24.01	17.19	41.20	74.00	-32.80
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	35.91	8.43	44.34	54.00	-9.66	
5460.00	E	Peak	54.49	8.43	62.92	74.00	-11.08	

Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	31.81	8.73	40.54	54.00	-13.46	
5460.00	E	Peak	48.50	8.73	57.23	74.00	-16.77	

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Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	59.16	8.44	67.60	68.30	-0.70	

Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5500 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	50.52	8.74	59.26	68.30	-9.04	

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Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	55.61	8.78	64.39	68.30	-3.91	

Operation Band	:802.11 n20M	Test Date	:2013-09-06
Fundamental Frequency	:5700 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	52.94	9.08	62.02	68.30	-6.28	

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

Operation Band	:802.11 n40M	Test Date	:2013-09-09
Fundamental Frequency	:5510 MHz	Temp./Humi.	:24 deg_C / 61 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV		dB μ V	dB μ V/m	
39.70	S	Peak	46.93	-13.43	33.50	40.00	-6.50
214.30	S	Peak	36.75	-15.33	21.42	43.50	-22.08
311.30	S	Peak	39.22	-12.03	27.19	46.00	-18.81
553.80	S	Peak	29.47	-7.75	21.72	46.00	-24.28
622.67	S	Peak	36.06	-6.11	29.95	46.00	-16.05
749.74	S	Peak	30.34	-4.19	26.15	46.00	-19.85
11020.00	H	Average	22.16	16.46	38.62	54.00	-15.38
11020.00	H	Peak	23.10	16.46	39.56	74.00	-34.44
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5510 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX LOW Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V/m	@3m dB μ V/m	dB
39.70	S	Peak	33.78	-13.43	20.35	40.00	-19.65
200.72	S	Peak	42.80	-15.86	26.94	43.50	-16.56
311.30	S	Peak	41.30	-12.03	29.27	46.00	-16.73
549.92	S	Peak	31.17	-7.84	23.33	46.00	-22.67
622.67	S	Peak	35.01	-6.11	28.90	46.00	-17.10
809.88	S	Peak	27.77	-3.64	24.13	46.00	-21.87
11020.00	H	Average	22.45	16.34	38.79	54.00	-15.21
11020.00	H	Peak	24.15	16.34	40.49	74.00	-33.51
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
Fundamental Frequency :5550 MHz Temp./Humi. :24 deg_C / 61 RH
Operation Mode :TX MID Engineer :Allen
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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	Spectrum Reading Level	Factor	Actual		Margin dB
					PK/QP/AV	dB μ V	
39.70	S	Peak	46.43	-13.43	33.00	40.00	-7.00
215.27	S	Peak	36.41	-15.27	21.14	43.50	-22.36
311.30	S	Peak	39.33	-12.03	27.30	46.00	-18.70
549.92	S	Peak	30.65	-7.84	22.81	46.00	-23.19
622.67	S	Peak	36.20	-6.11	30.09	46.00	-15.91
749.74	S	Peak	31.68	-4.19	27.49	46.00	-18.51
11100.00	H	Average	18.21	16.63	34.84	54.00	-19.16
11100.00	H	Peak	18.58	16.63	35.21	74.00	-38.79
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
 Fundamental Frequency :5550 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX MID Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
39.70	S	Peak	34.45	-13.43	21.02	40.00	-18.98
199.75	S	Peak	42.91	-15.86	27.05	43.50	-16.45
311.30	S	Peak	41.67	-12.03	29.64	46.00	-16.36
549.92	S	Peak	32.30	-7.84	24.46	46.00	-21.54
622.67	S	Peak	35.88	-6.11	29.77	46.00	-16.23
726.46	S	Peak	31.12	-4.48	26.64	46.00	-19.36
11100.00	H	Average	19.11	16.45	35.56	54.00	-18.44
11100.00	H	Peak	19.55	16.45	36.00	74.00	-38.00
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
 Fundamental Frequency :5670 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
39.70	S	Peak	47.49	-13.43	34.06	40.00	-5.94
209.45	S	Peak	37.02	-15.63	21.39	43.50	-22.11
311.30	S	Peak	39.41	-12.03	27.38	46.00	-18.62
553.80	S	Peak	30.95	-7.75	23.20	46.00	-22.80
622.67	S	Peak	36.31	-6.11	30.20	46.00	-15.80
749.74	S	Peak	29.81	-4.19	25.62	46.00	-20.38
11340.00	H	Average	17.14	17.36	34.50	54.00	-19.50
11340.00	H	Peak	17.68	17.36	35.04	74.00	-38.96
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band :802.11 n40M Test Date :2013-09-09
 Fundamental Frequency :5670 MHz Temp./Humi. :24 deg_C / 61 RH
 Operation Mode :TX HIGH Engineer :Allen
 EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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 dB μ V	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
37.76	S	Peak	34.34	-13.67	20.67	40.00	-19.33
196.84	S	Peak	42.75	-15.71	27.04	43.50	-16.46
311.30	S	Peak	41.56	-12.03	29.53	46.00	-16.47
549.92	S	Peak	31.96	-7.84	24.12	46.00	-21.88
622.67	S	Peak	35.48	-6.11	29.37	46.00	-16.63
726.46	S	Peak	28.98	-4.48	24.50	46.00	-21.50
11340.00	H	Average	18.45	17.10	35.55	54.00	-18.45
11340.00	H	Peak	18.97	17.10	36.07	74.00	-37.93
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	36.69	8.43	45.12	54.00	-8.88	
5460.00	E	Peak	52.60	8.43	61.03	74.00	-12.97	

Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5460.00	E	Average	32.56	8.73	41.29	54.00	-12.71	
5460.00	E	Peak	49.50	8.73	58.23	74.00	-15.77	

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Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	58.16	8.44	66.60	68.30	-1.70	

Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5510 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge LOW	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5470.00	E	Peak	52.86	8.74	61.60	68.30	-6.70	

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Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	54.58	8.78	63.36	68.30	-4.94	

Operation Band	:802.11 n40M	Test Date	:2013-09-06
Fundamental Frequency	:5670 MHz	Temp./Humi.	:25.4 deg_C / 57 RH
Operation Mode	:Bandedge HIGH	Engineer	:Louis
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/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.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	46.19	9.08	55.27	68.30	-13.03	

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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 signaling 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 signaling 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.

14.2 Result:

Refer to next page for plots.

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Operation Mode	802.11 a	Test Date	2013,9,10
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	36	5180.0000	5,180.013028	-0.0130
		44	5220.0000	5,220.014470	-0.0145
		48	5240.0000	5,240.014917	-0.0149
		52	5260.0000	5,260.015284	-0.0153
		60	5300.0000	5,300.015733	-0.0157
		64	5320.0000	5,320.015933	-0.0159
		100	5500.0000	5,500.016433	-0.0164
		116	5580.0000	5,580.016300	-0.0163
		140	5700.0000	5,700.016484	-0.0165
0	3.7V	36	5180.0000	5,180.013147	-0.0131
		44	5220.0000	5,220.014217	-0.0142
		48	5240.0000	5,240.014621	-0.0146
		52	5260.0000	5,260.015337	-0.0153
		60	5300.0000	5,300.015218	-0.0152
		64	5320.0000	5,320.015971	-0.0160
		100	5500.0000	5,500.016543	-0.0165
		116	5580.0000	5,580.016271	-0.0163
		140	5700.0000	5,700.016553	-0.0166
40	3.7V	36	5180.0000	5,180.013179	-0.0132
		44	5220.0000	5,220.014310	-0.0143
		48	5240.0000	5,240.015113	-0.0151
		52	5260.0000	5,260.015273	-0.0153
		60	5300.0000	5,300.015617	-0.0156
		64	5320.0000	5,320.015814	-0.0158
		100	5500.0000	5,500.016597	-0.0166
		116	5580.0000	5,580.016347	-0.0163
		140	5700.0000	5,700.016517	-0.0165

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Operation Mode	802.11n_HT20	Test Date	2013,9,10
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	36	5180.0000	5,180.014917	-0.0149
		44	5220.0000	5,220.015100	-0.0151
		48	5240.0000	5,240.015317	-0.0153
		52	5260.0000	5,260.015600	-0.0156
		60	5300.0000	5,300.015900	-0.0159
		64	5320.0000	5,320.016184	-0.0162
		100	5500.0000	5,500.015784	-0.0158
		116	5580.0000	5,580.015883	-0.0159
		140	5700.0000	5,700.016367	-0.0164
0	3.7V	36	5180.0000	5,180.014814	-0.0148
		44	5220.0000	5,220.015453	-0.0155
		48	5240.0000	5,240.015247	-0.0152
		52	5260.0000	5,260.015714	-0.0157
		60	5300.0000	5,300.015710	-0.0157
		64	5320.0000	5,320.016247	-0.0162
		100	5500.0000	5,500.015697	-0.0157
		116	5580.0000	5,580.015913	-0.0159
		140	5700.0000	5,700.016439	-0.0164
40	3.7V	36	5180.0000	5,180.014731	-0.0147
		44	5220.0000	5,220.015247	-0.0152
		48	5240.0000	5,240.015813	-0.0158
		52	5260.0000	5,260.015914	-0.0159
		60	5300.0000	5,300.015789	-0.0158
		64	5320.0000	5,320.016103	-0.0161
		100	5500.0000	5,500.015710	-0.0157
		116	5580.0000	5,580.015907	-0.0159
		140	5700.0000	5,700.016789	-0.0168

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Operation Mode	802.11 n_HT40	Test Date	2013,9,10
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	38	5190.0000	5,190.015734	-0.0157
		46	5230.0000	5,230.015700	-0.0157
		54	5270.0000	5,270.015884	-0.0159
		62	5310.0000	5,310.016084	-0.0161
		102	5510.0000	5,510.016717	-0.0167
		110	5550.0000	5,550.016550	-0.0166
		134	5670.0000	5,670.016750	-0.0167
0	3.7V	38	5190.0000	5,190.015613	-0.0156
		46	5230.0000	5,230.015712	-0.0157
		54	5270.0000	5,270.015942	-0.0159
		62	5310.0000	5,310.016115	-0.0161
		102	5510.0000	5,510.016697	-0.0167
		110	5550.0000	5,550.016790	-0.0168
		134	5670.0000	5,670.016619	-0.0166
40	3.7V	38	5190.0000	5,190.015830	-0.0158
		46	5230.0000	5,230.015914	-0.0159
		54	5270.0000	5,270.015972	-0.0160
		62	5310.0000	5,310.016679	-0.0167
		102	5510.0000	5,510.016973	-0.0170
		110	5550.0000	5,550.016013	-0.0160
		134	5670.0000	5,670.016890	-0.0169

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15. ANTENNA REQUIREMENT

15.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 1.90dBi for frequency band of 5150~5725MHz, 2.42dBi for 802.11 a/n20, 2.16dBi for 802.11 n40 (5150~5250MHz_MIMO gain); 1.12dBi for 802.11 a/n20, 2.41dBi for 802.11 n40 (5250~5350MHz_MIMO gain), and 2.15dBi for 802.11 a/n20, 2.15dBi for 802.11 n40 (5470~5725MHz_MIMO Gain). 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.

~ End of Report ~

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