

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT CLASS II PC REPORT

OF

**Product Name:** QD8  
**Marketing Name:** BF-01D  
**Brand Name:** NTT Docomo  
**Model No.:** BF-01D  
**Model Different:** N/A  
**Report No.:** EH/2011/40020-03  
**Issue Date:** Jan. 11, 2012  
**FCC Rule Part:** §15.407  
**FCC ID:** HFS-QD8  
**Prepared for:** Quanta Computer Inc.  
  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan.



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## VERIFICATION OF COMPLIANCE

**Applicant:** Quanta Computer Inc.  
No.188, Wen Hwa 2nd Road , Kuei Shan Hsiang Tao Yuan Shien, Taiwan

**Product Name:** QD8

**Marketing Name:** BF-01D

**Brand Name:** NTT Docomo

**Model No.:** BF-01D

**Model Difference:** N/A

**File Number:** EH/2011/40020-03

**Date of test:** Apr. 14, 2011 ~ May. 25, 2011

**Date of EUT Received:** Apr. 14, 2011

### We hereby certify that:

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

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

**Test By:**

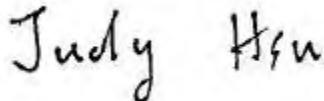


**Date:**

Jan. 11, 2012

*Jay Lin / Engineer*

**Prepared By:**



**Date:**

Jan. 11, 2012

*Judy Hsu / Clerk*

**Approved By:**



**Date:**

Jan. 11, 2012

*Jim Chang / Supervisor*

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## Version

Version No.	Date	Description
00	Jan. 11, 2012	Initial creation of document

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## 1. GENERAL INFORMATION

### 1.1. Product Description

#### General:

Product Name:	QD8
Marketing Name:	BF-01D
Brand Name:	NTT Docomo
Model No.:	BF-01D
Model Difference:	N/A
Data Cable:	Model 1: N/A, Supplier 1: N/A Model 2: N/A, Supplier 2: N/A
Hardware Version:	V5
Software Version:	V1.83 (R2.47) BF-01D_111220_001WWE_3050
Power Supply	3.7V Li-Ion Battery or 5V by AC/DC power adapter
	Battery: Model: O31A, Supplier: BUFFALO
	Adaptor: Model: FU05-9050100-A1, Supplier: LEADER
Class II Permissive change	1. Disable European band (1922.4~1977.6MHz) from Software control to hardware implementation (CL circuitry / C = 6.8pF; L=0.556nH) 2. Enclosure enlargement 20mm length

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**WLAN: 802.11 a/b/g/n**

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission	
11a (5Ghz)	5180-5320	9	a : 16.17 dBm	OFDM	16M48D1D	
11n (5GHz)	HT20 5180-5320	9	HT20: 16.19dBm		17M70D1D	
	HT40 5190-5310	7	HT40: 15.65dBm		36M20D1D	
Antenna Designation		PIFA Antenna5G: 3dBi				
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 – 72.2Mbps 802.11 n_40MHz: 13.5 - 135Mbps				

The 5G max antenna gain is 3.0dBi which was choosing for Radiated Spurious Emission test.

The EUT is compliance with IEEE 802.11 a/n Standard.

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

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

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4. Test Facility

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

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

## 1.5. Special Accessories

Not available for this EUT intended for grant.

## 1.6. Equipment Modifications

Not available for this EUT intended for grant.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

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

### 2.2. EUT Exercise

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

### 2.3. Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Radiated Emissions

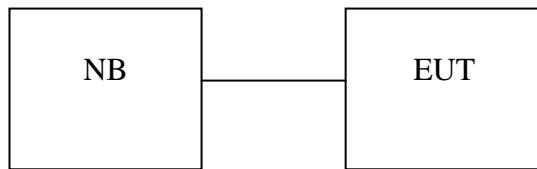
The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be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

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## 2.4. Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	Notebook	HP	ProBook 4411S	CNU9316V4C

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### 3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Refer to EMC data.
§15.407(a)	26 dB Emission Bandwidth	Compliant
§15.407(a)	Peak Output Power Measurement	Compliant
§15.407(a)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b)	Undesirable Emission – Conducted Measurement	Compliant
§15.407(b)	Undesirable Emission – Radiated Measurement	Compliant
§15.407©	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.407(a)	Antenna Requirement	Compliant
§15.407(d)	TPC and DFS Measurement	Compliant
MPE	Maximum Permissible Exposure	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).

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).

with 6.5Mbps data rate are chosen for full testing

n HT 40 mode:

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

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

5470MHz-5725MHz: Channel lowest (5510MHz)、Highest(5670MHz)

with 13.5Mbps data rate are chosen for full testing

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## 5. AC POWER LINE CONDUCTED EMISSION TEST

### 5.1. Standard Applicable

According to §15.207, 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.

### 5.2. EUT Setup

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

### 5.3. Measurement Procedure

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

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## 5.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2011	02/01/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2011	02/01/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

## 5.5. Measurement Result

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

Note: Refer to EMC data.

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## 6. 26dB EMISSION BANDWIDTH MEASUREMENT

### 6.1 Standard Applicable

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

### 6.2 Measurement Procedure

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

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### 6.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011

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## 6.4 Measurement Result

UNII, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.88	12.98
5220	19.69	12.94
5240	19.73	12.95

UNII, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.68	12.94
5300	19.76	12.96
5320	19.70	12.95

UNII HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	20.06	13.02
5220	20.16	13.04
5240	20.20	13.05

UNII HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	20.11	13.03
5300	20.16	13.05
5320	20.27	13.07

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UNII HT40, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	39.59	15.98
5230	40.07	16.03

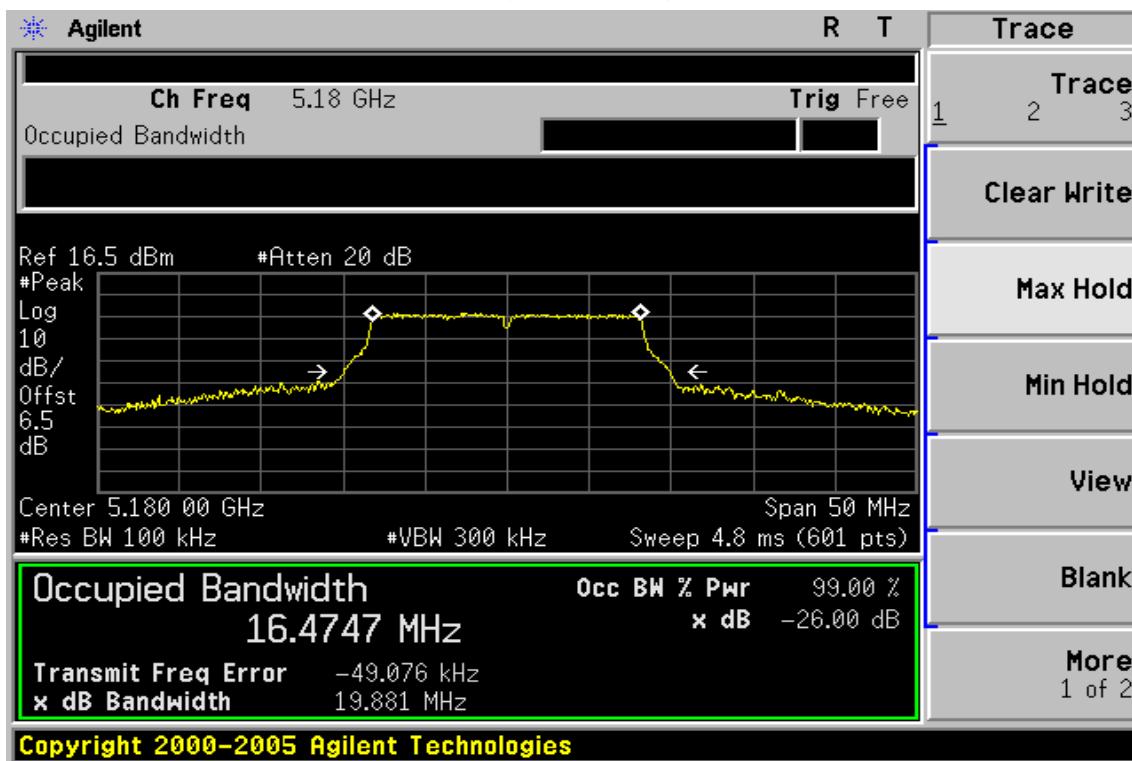
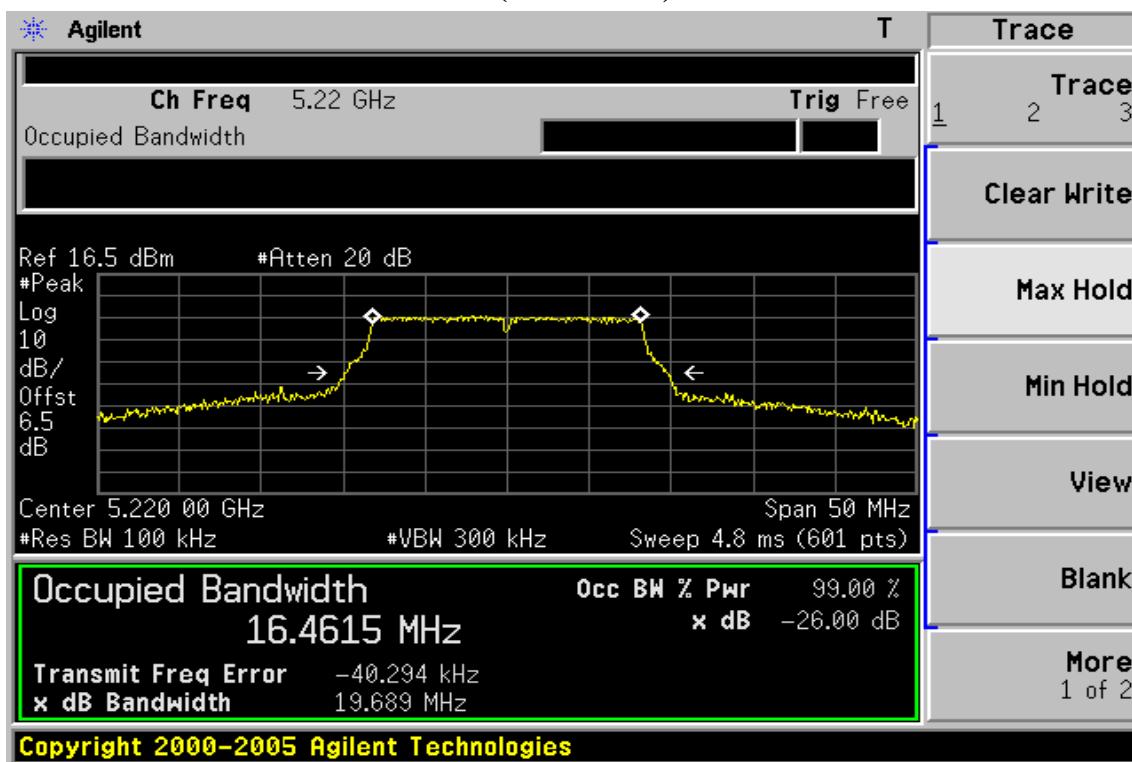
UNII HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	39.95	16.02
5310	39.81	16.00

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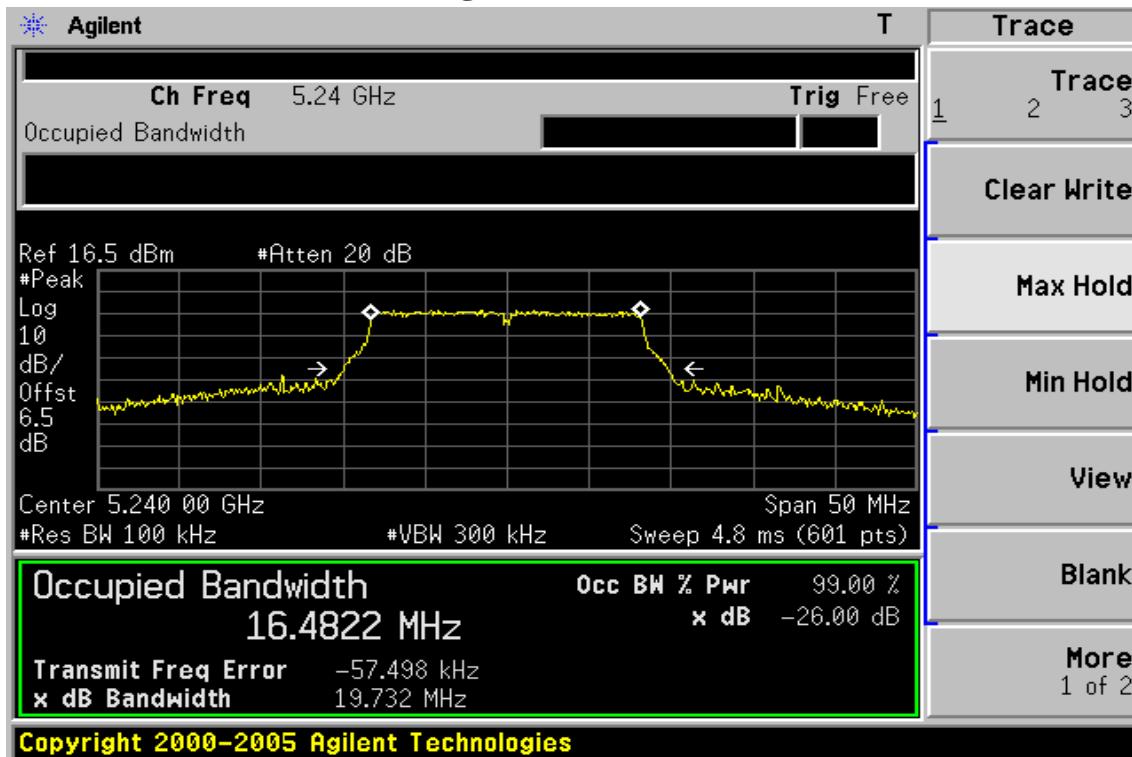
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**UNII, 5150~5250 MHz**
**26dB Band Width Test Data CH-Low (5180MHz)**

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


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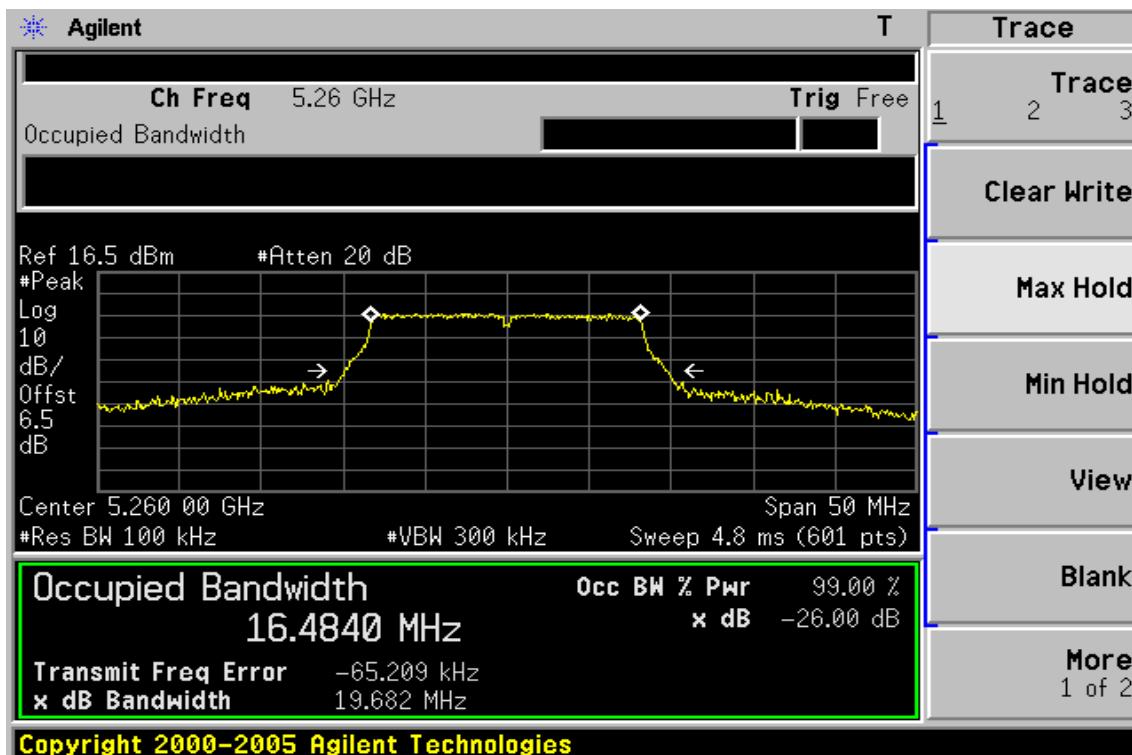
**26dB Band Width Test Data CH-High (5240MHz)**

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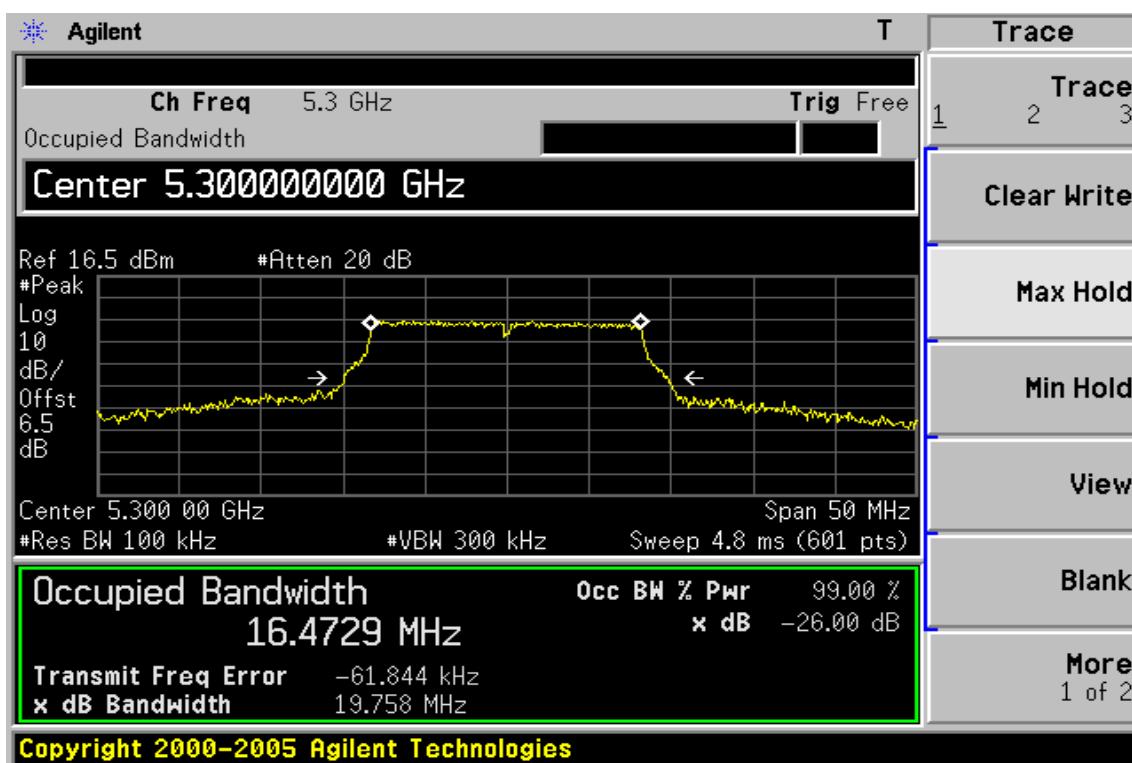
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## UNII, 5250~5350 MHz

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

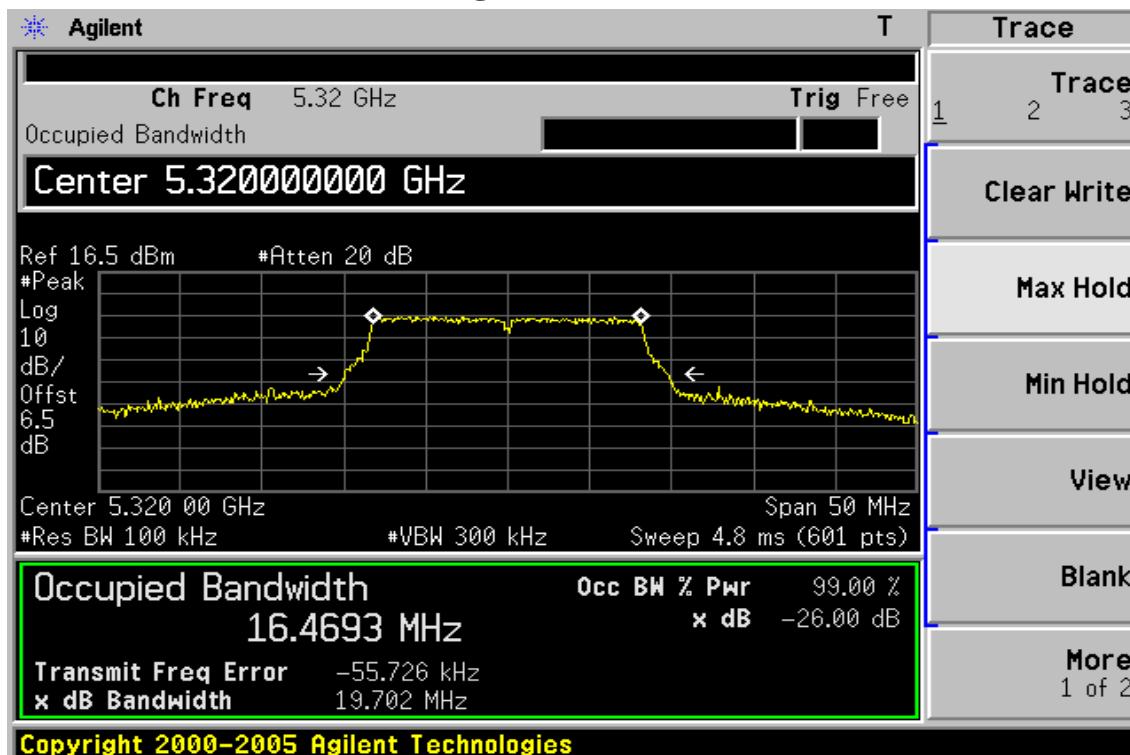


### 26dB Band Width Test Data CH-Mid (5300MHz)



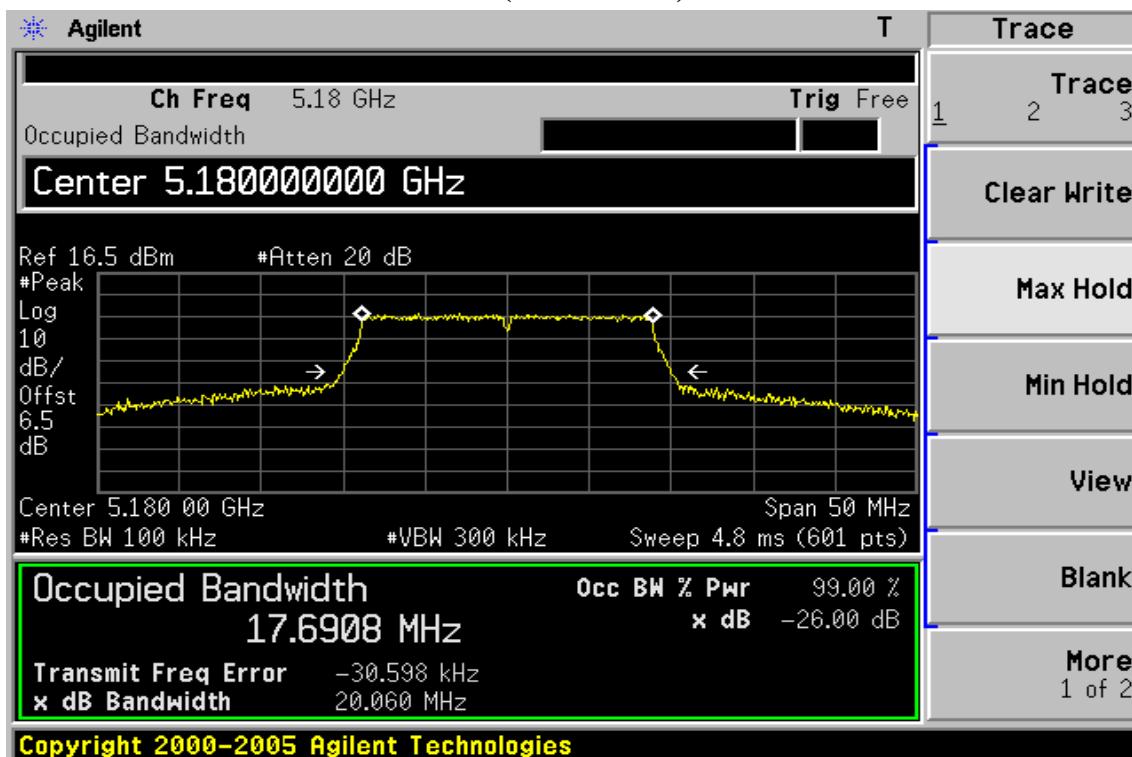
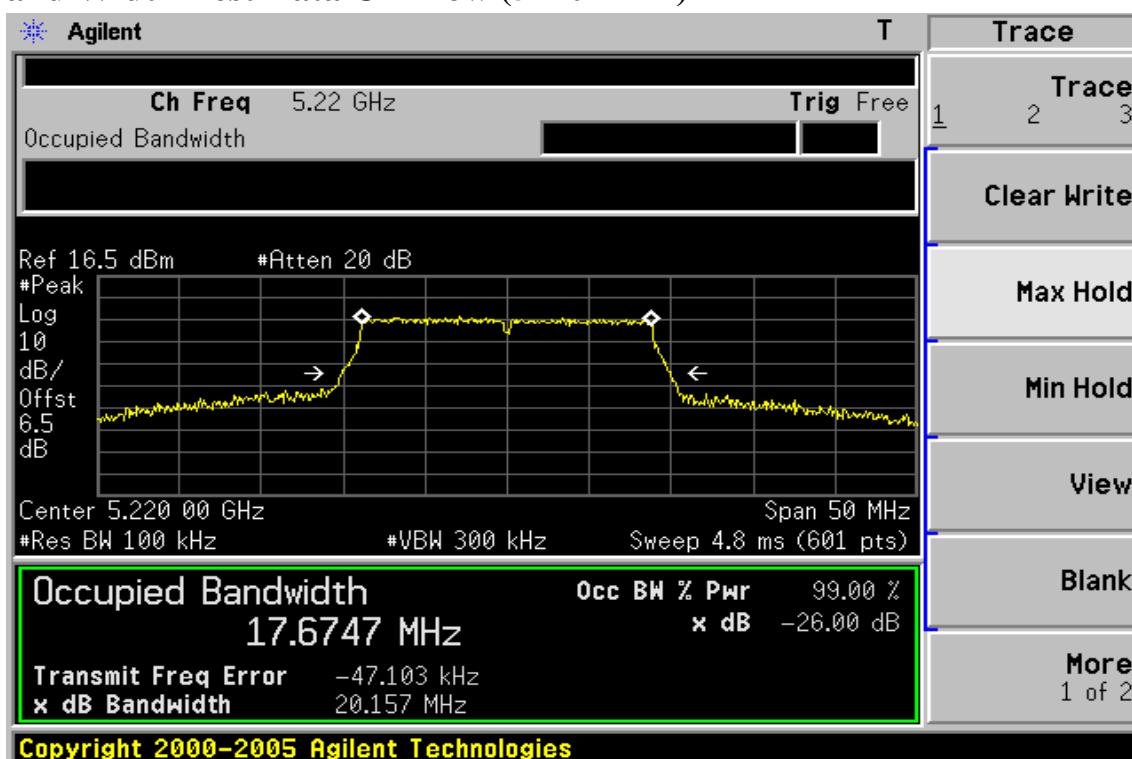
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**26dB Band Width Test Data CH-High (5320MHz)**

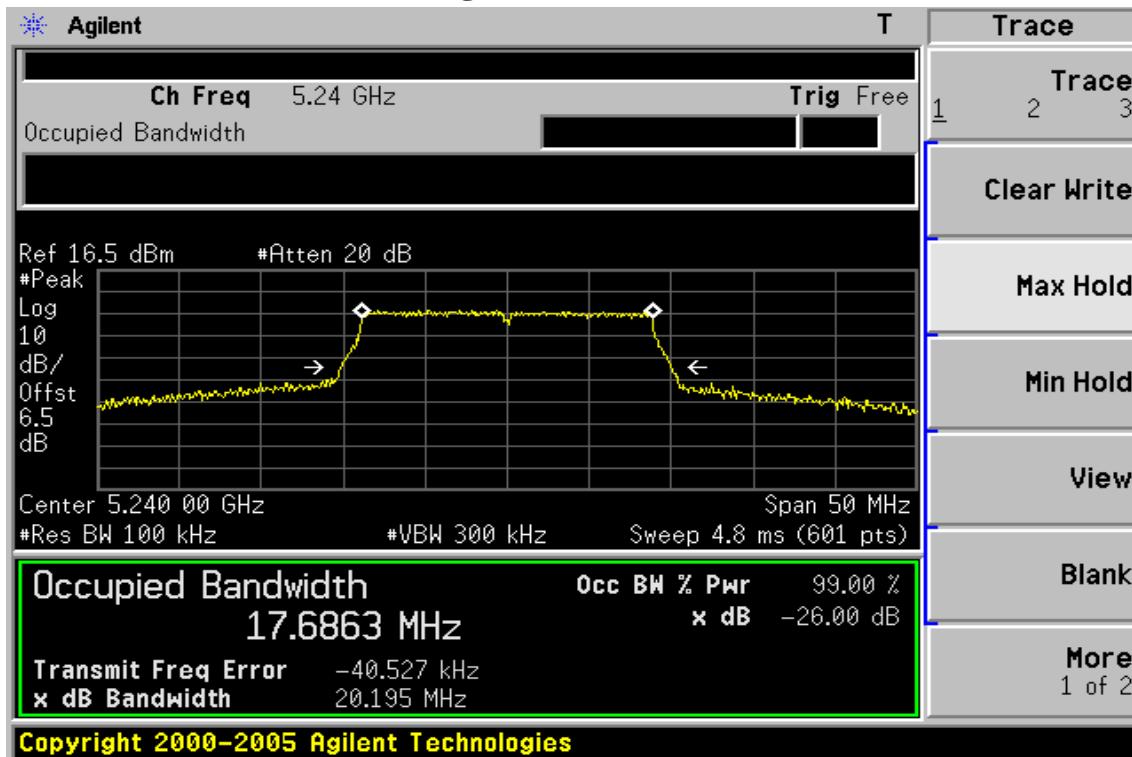
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**UNII, HT 20, 5150~5250 MHz**
**26dB Band Width Test Data CH-Low (5180 MHz)**

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


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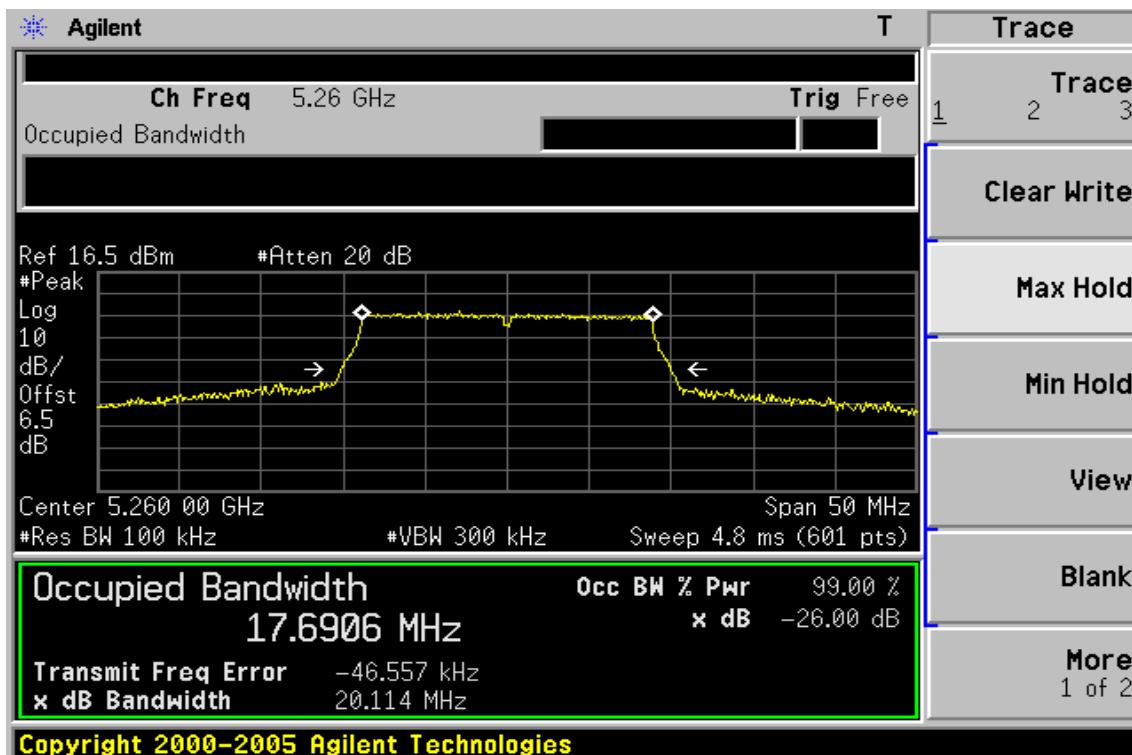
**26dB Band Width Test Data CH-High (5240 MHz)**

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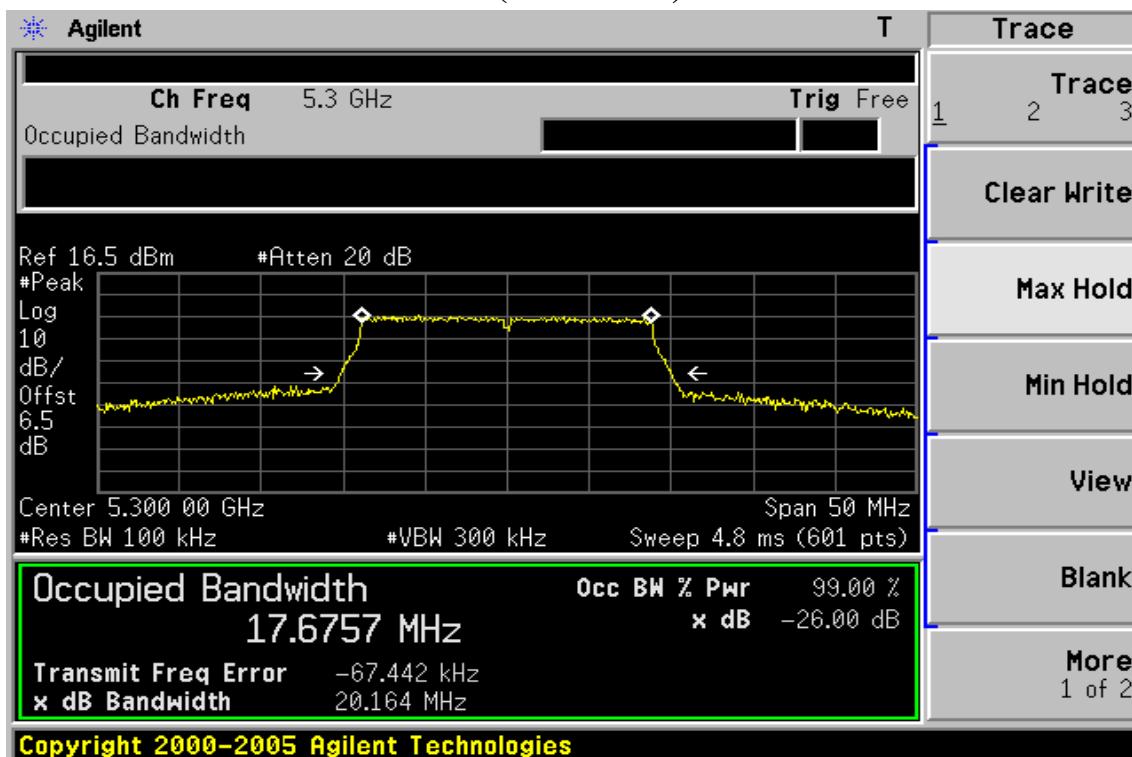
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## UNII, HT 20, 5250~5350 MHz

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

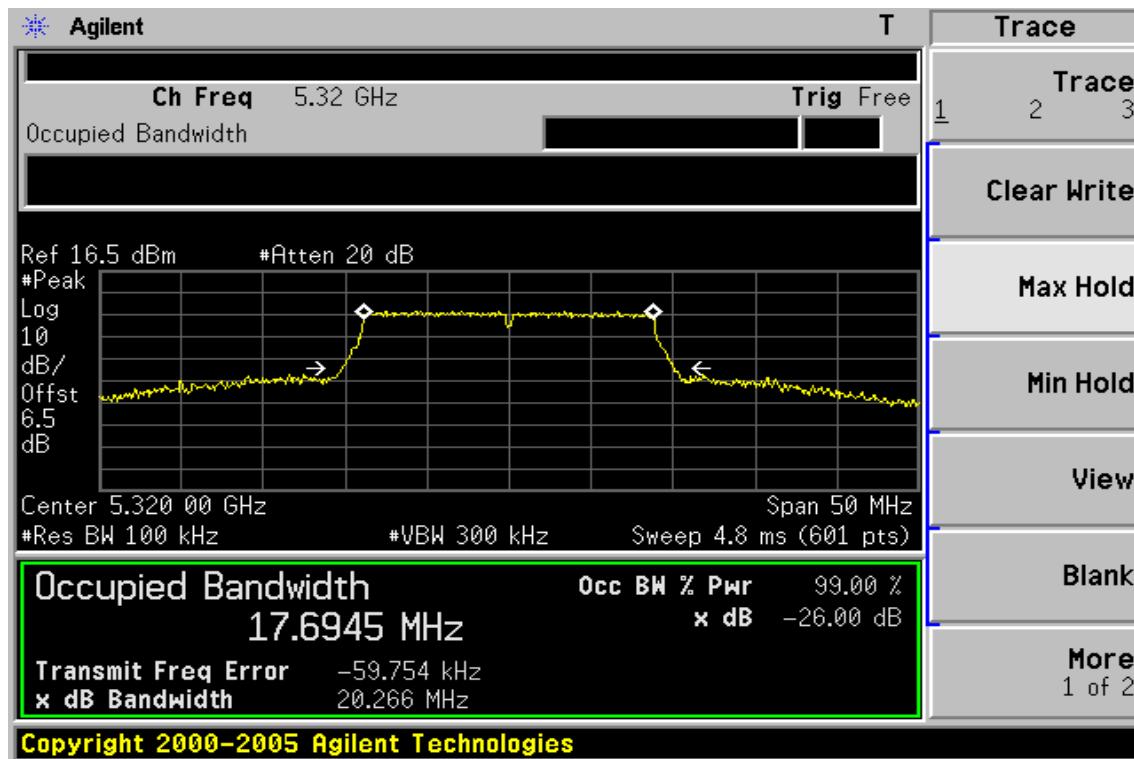


### 26dB Band Width Test Data CH-Mid (5300 MHz)



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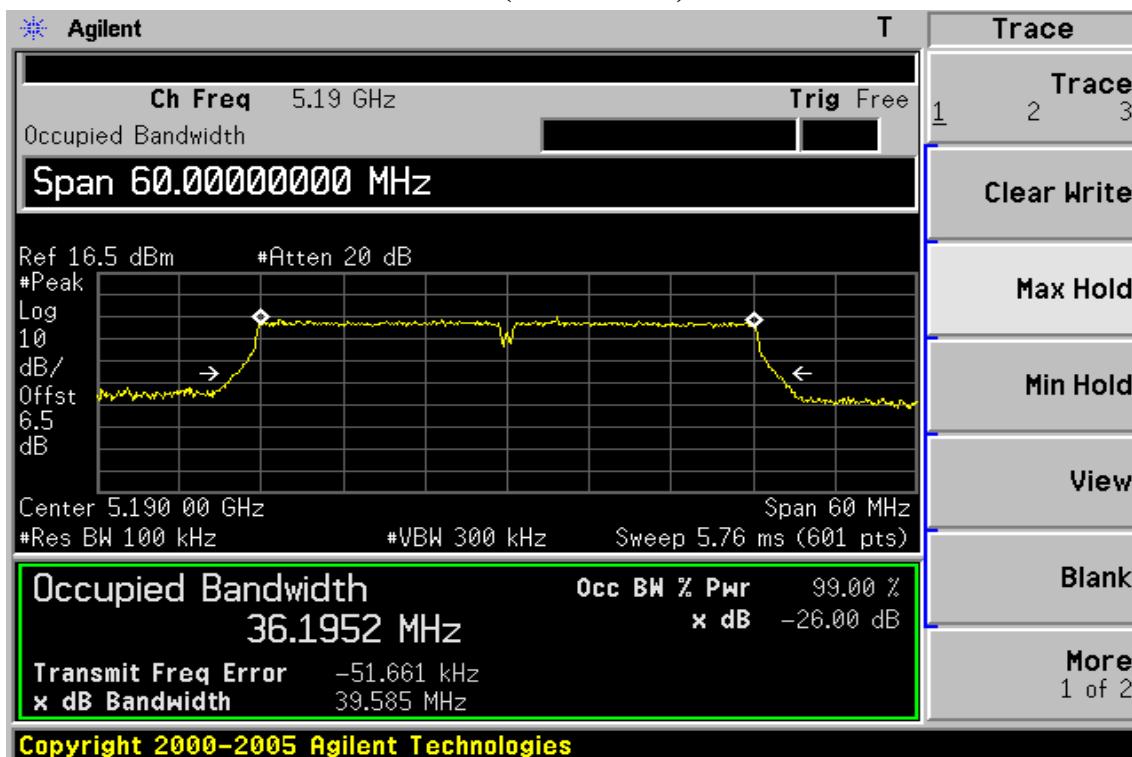
**26dB Band Width Test Data CH-High (5320 MHz)**

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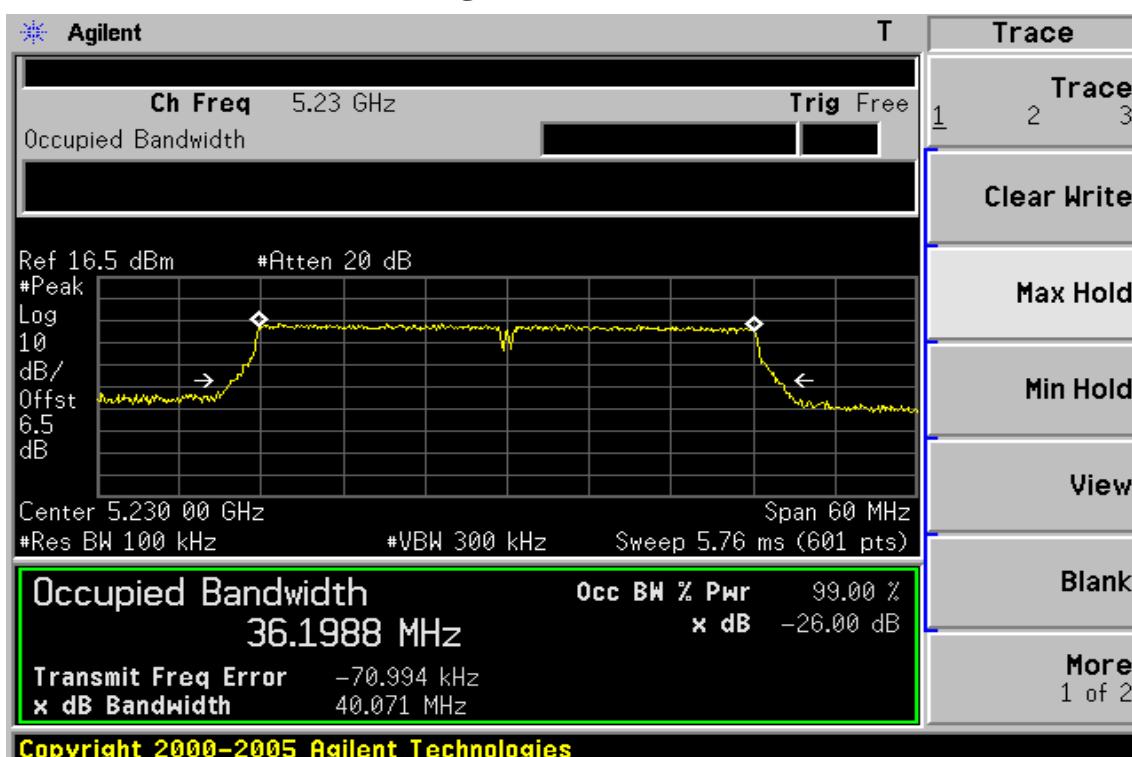
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## UNII, HT 40, 5150~5250 MHz

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



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

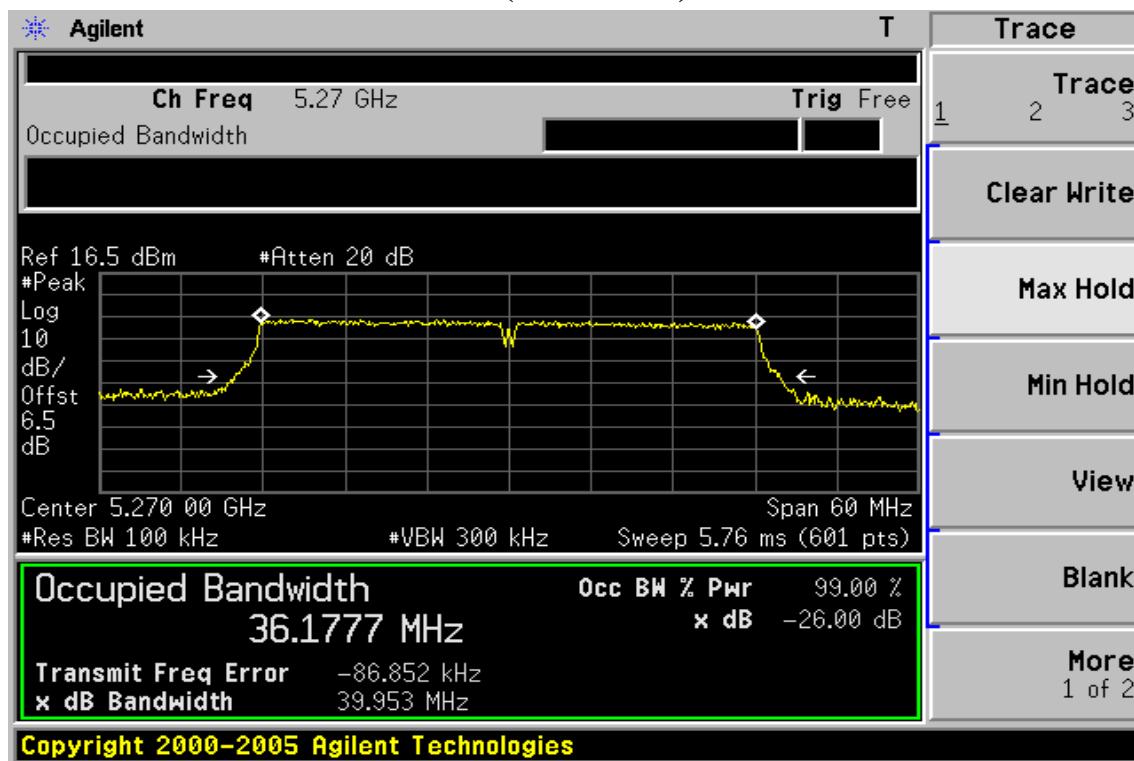


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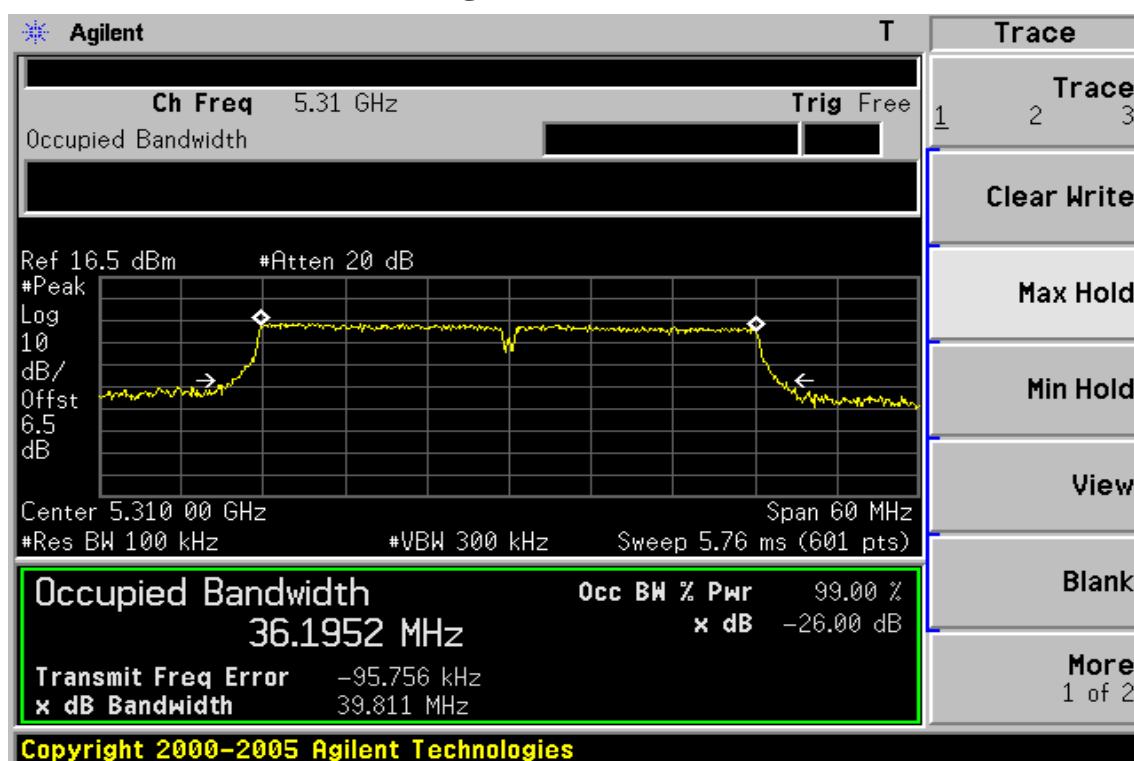
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## UNII, HT 40, 5250~5350 MHz

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



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



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## 7. PEAK OUTPUT POWER MEASUREMENT

### 7.1 Standard Applicable

According to §15.407(a)

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

### 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 power meter or spectrum. (Channel Power Function, RBW=1MHz, VBW=3MHz, ACP Bandwidth =26dB Emission Bandwidth)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

### 7.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E7405A	US41160416	01/25/2011	01/24/2012
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011

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## 7.4 Measurement Result

UNII

Cable loss = 0		Peak Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
36	5180	15.52	15.47	15.46	15.41	15.40	15.37	15.33	15.17	50mWatt = 17 dBm
44	5220	15.50	15.46	15.44	15.43	15.39	15.35	15.31	15.27	50mWatt = 17 dBm
48	5240	16.17	16.09	16.04	15.97	15.91	15.83	15.77	15.69	50mWatt = 17 dBm
52	5260	15.86	15.83	15.79	15.71	15.63	15.57	15.55	15.48	250mWatt = 24 dBm
60	5300	15.49	15.47	15.35	15.33	15.28	15.26	15.21	15.17	250mWatt = 24 dBm
64	5320	15.16	15.15	15.13	15.14	15.11	15.06	15.04	15.01	250mWatt = 24 dBm

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## UNII HT20

Cable loss = 0		Peak Power Output									
CH	Frequency (MHz)	Data Rate								Required Limit	
		6.5	13	19.5	26	39	52	58.5	65		
36	5180	15.46	15.44	15.42	15.41	15.38	15.36	15.35	15.33	15.28	50mWatt=17 dBm
44	5220	15.46	15.42	15.41	15.39	15.36	15.33	15.32	15.29	15.25	50mWatt=17 dBm
48	5240	16.19	16.18	16.15	16.13	16.12	16.09	16.08	16.05	16.01	50mWatt=17 dBm
52	5260	15.92	15.89	15.88	15.86	15.85	15.82	15.81	15.79	15.75	250mWatt=24 dBm
60	5300	15.53	15.52	15.50	15.49	15.47	15.45	15.41	15.39	15.36	250mWatt=24 dBm
64	5320	15.19	15.17	15.15	15.14	15.11	15.08	15.07	15.03	14.98	250mWatt=24 dBm

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UNII HT40

Cable loss = 0		Peak Power Output								
CH	Frequency (MHz)	Data Rate								Required Limit
		13.5	27	40.5	54	81	108	121.5	135	
38	5190	15.24	15.23	15.21	15.20	15.18	15.15	15.14	15.12	50mWatt= 17 dBm
46	5230	15.26	15.25	15.23	15.22	15.19	15.18	15.16	15.11	50mWatt= 17 dBm
54	5270	15.65	15.61	15.60	15.57	15.55	15.54	15.51	15.48	50mWatt= 17 dBm
62	5310	15.28	15.27	15.24	15.23	15.21	15.19	15.16	15.15	250mWatt = 24 dBm

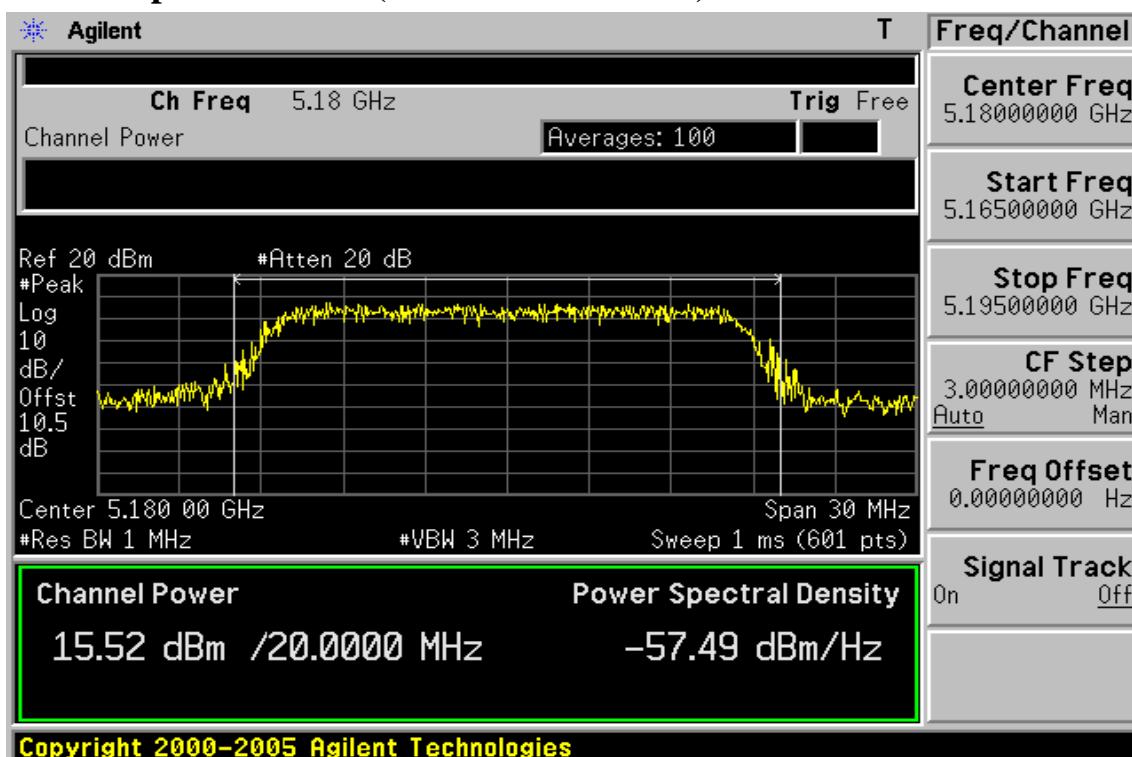
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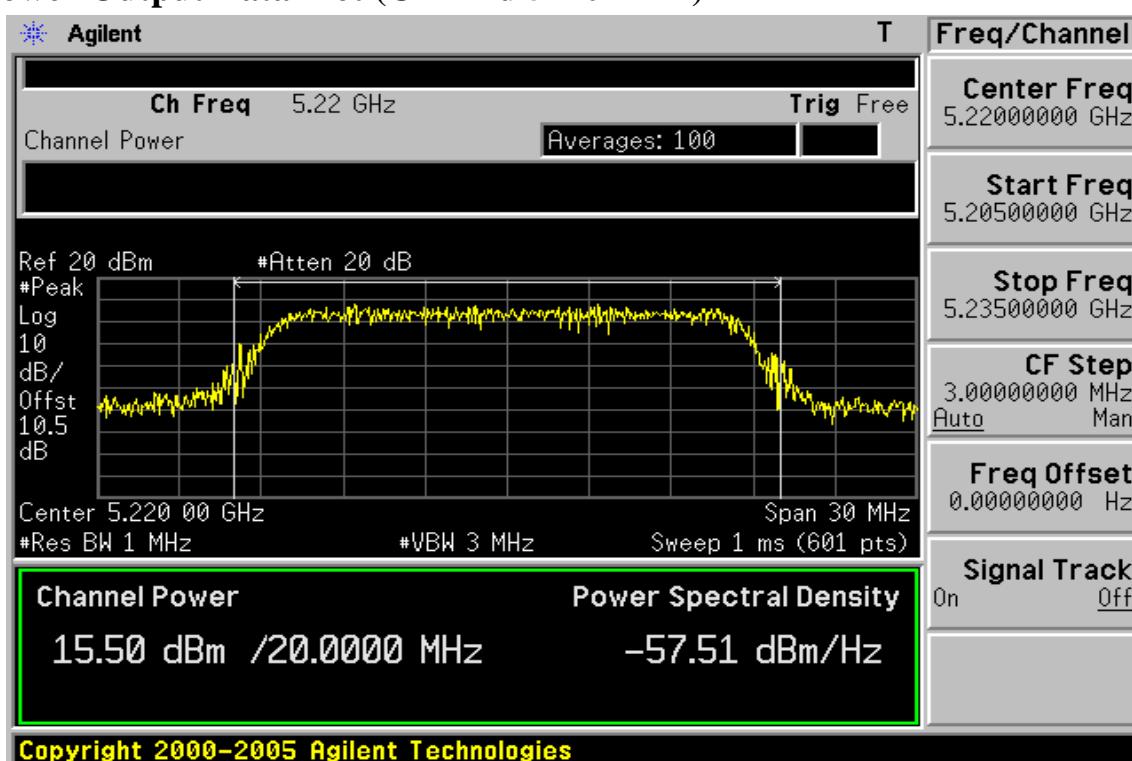
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## UNII, 5150~5250 MHz

### Peak Power Output Data Plot (CH Low 5180 MHz)

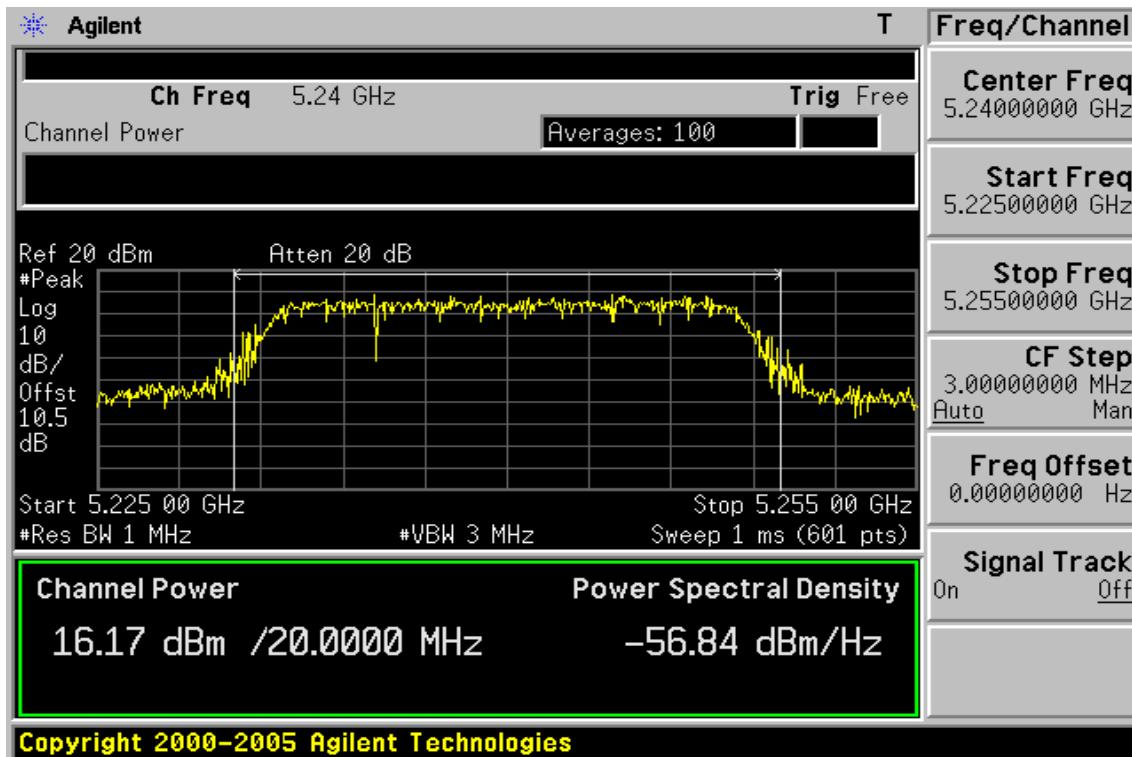


### Peak Power Output Data Plot (CH Mid 5220 MHz)



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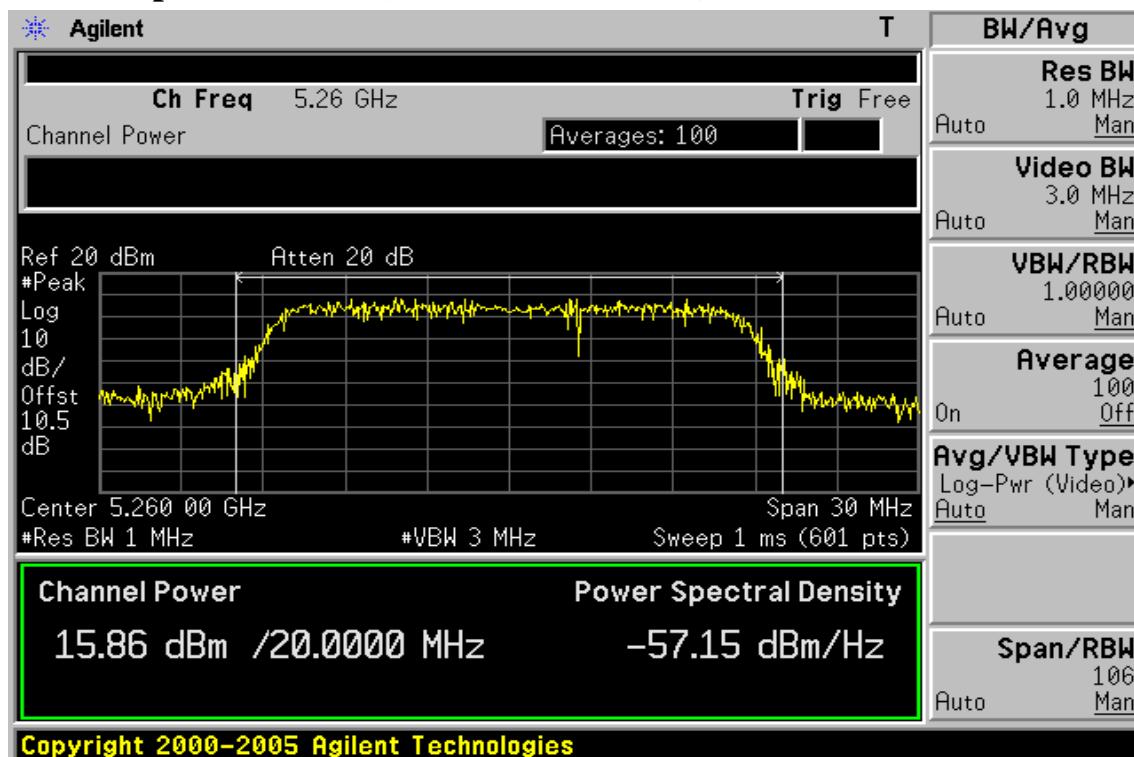
**Peak Power Output Data Plot (CH High 5240 MHz)**

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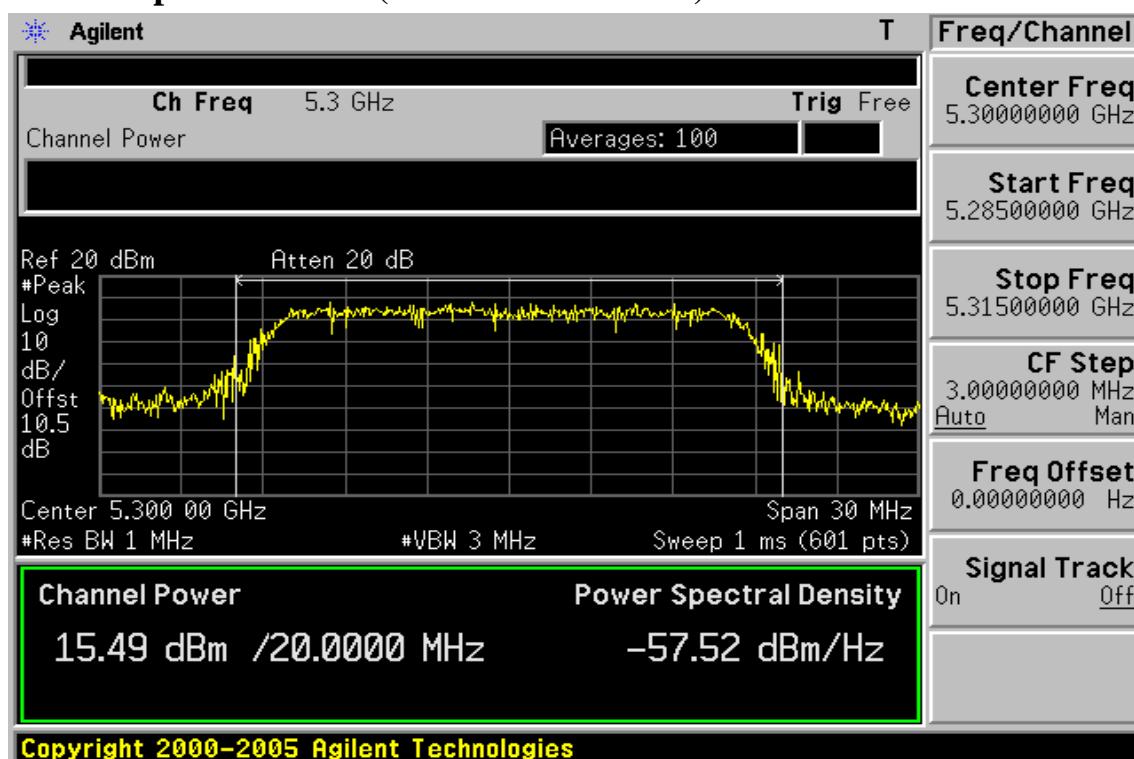
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## UNII, 5250~5350 MHz

### Peak Power Output Data Plot (CH Low 5260 MHz)

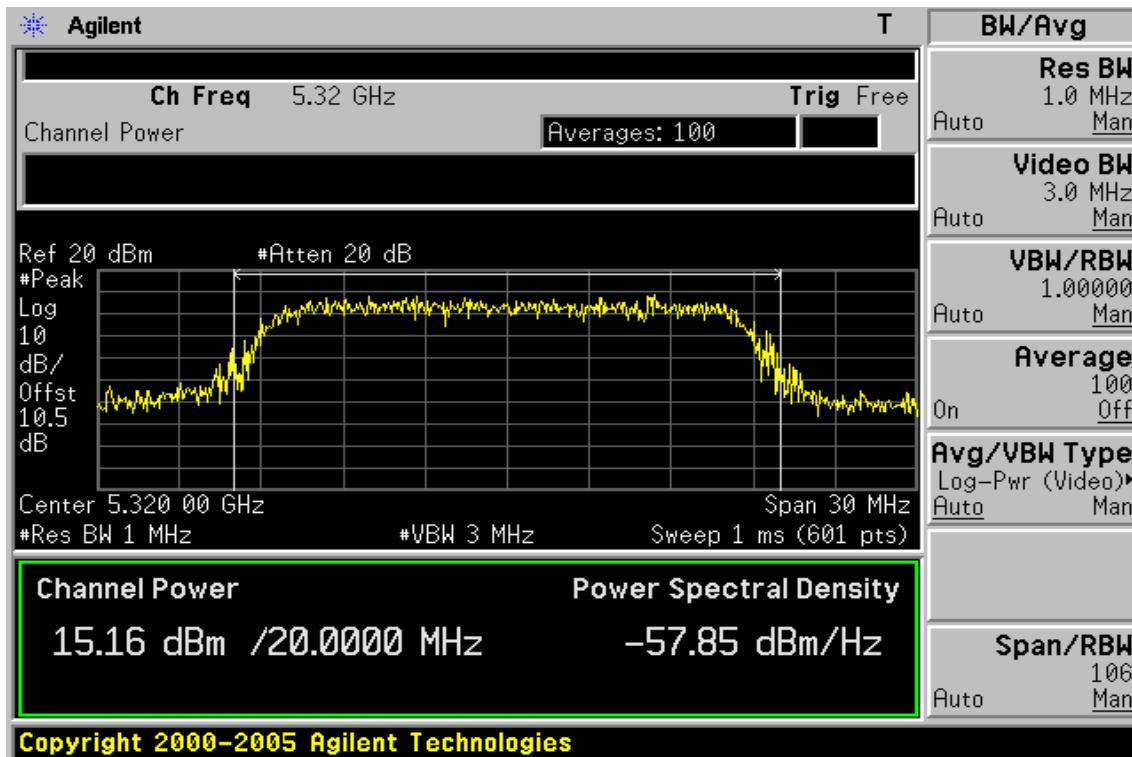


### Peak Power Output Data Plot (CH Mid 5300 MHz)



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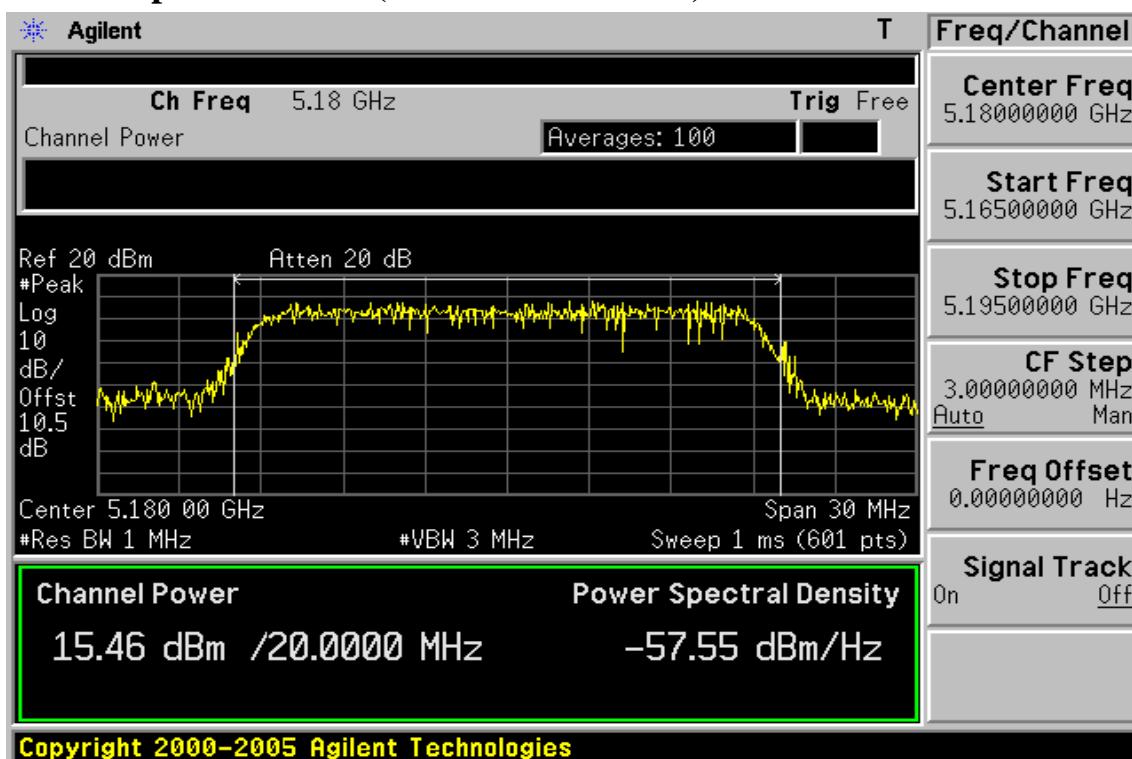
**Peak Power Output Data Plot (CH High 5320 MHz)**

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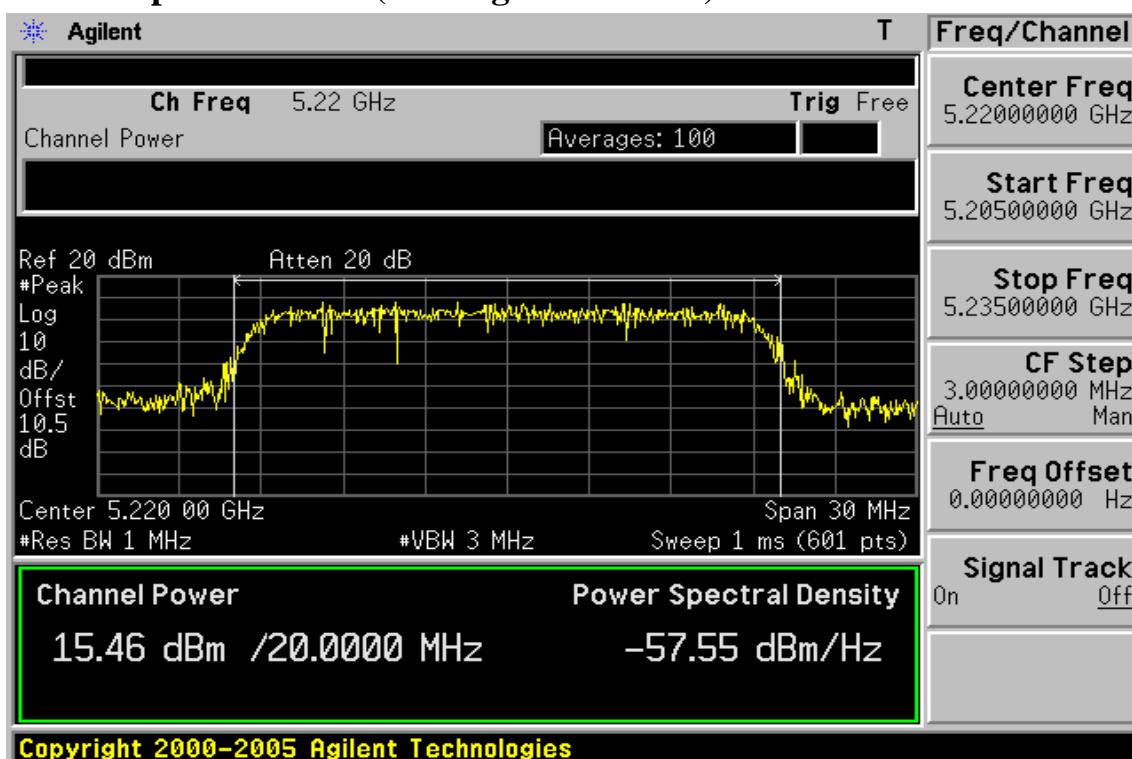
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## UNII HT20, 5150~5250 MHz

### Peak Power Output Data Plot (CH Mid 5180 MHz)

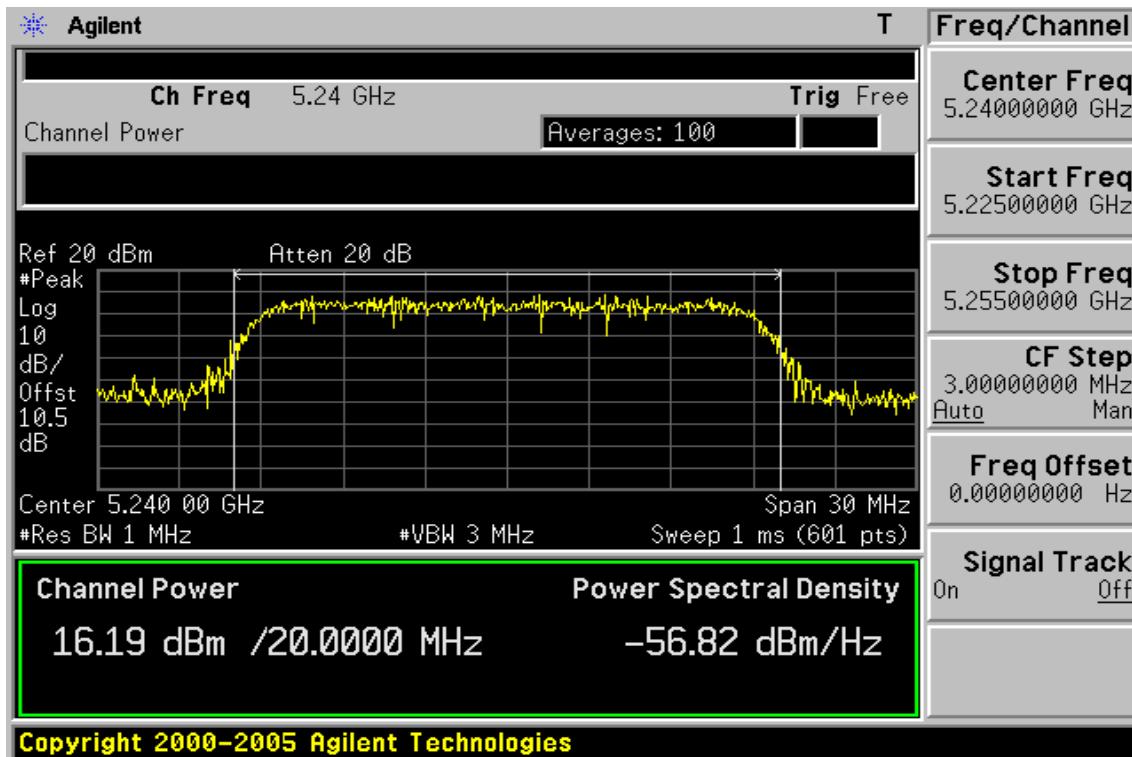


### Peak Power Output Data Plot (CH High 5220 MHz)



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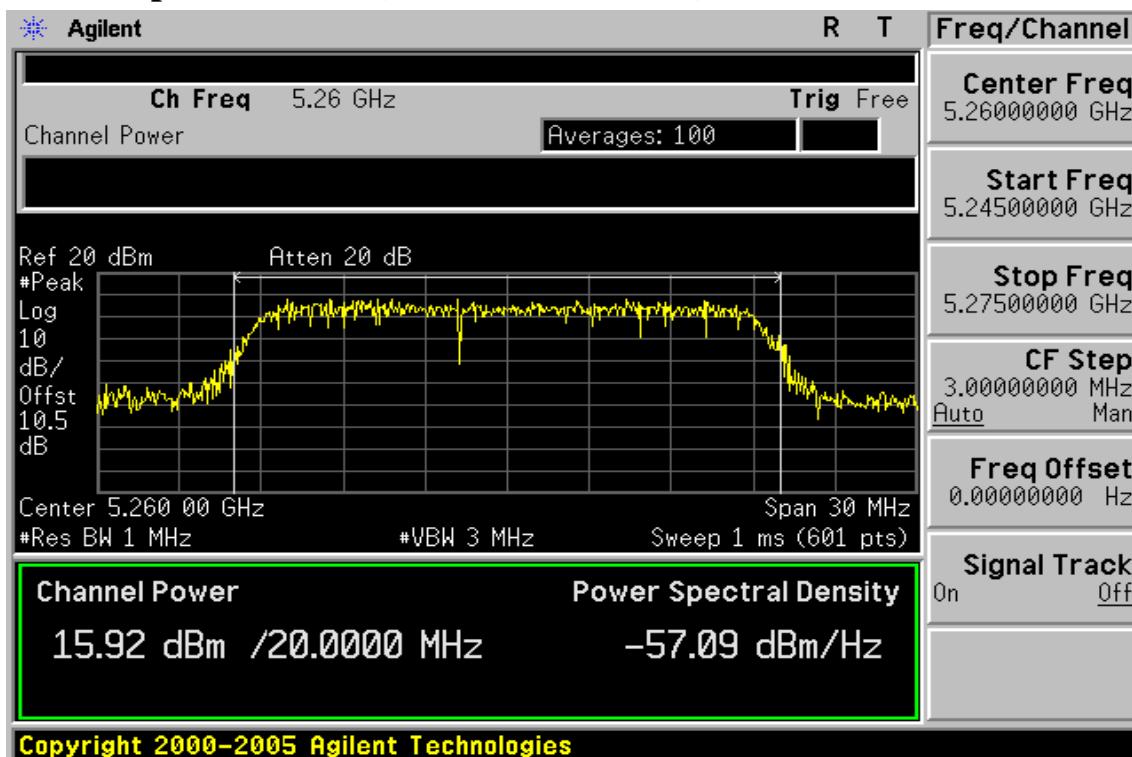
**Peak Power Output Data Plot (CH Low 5240 MHz)**

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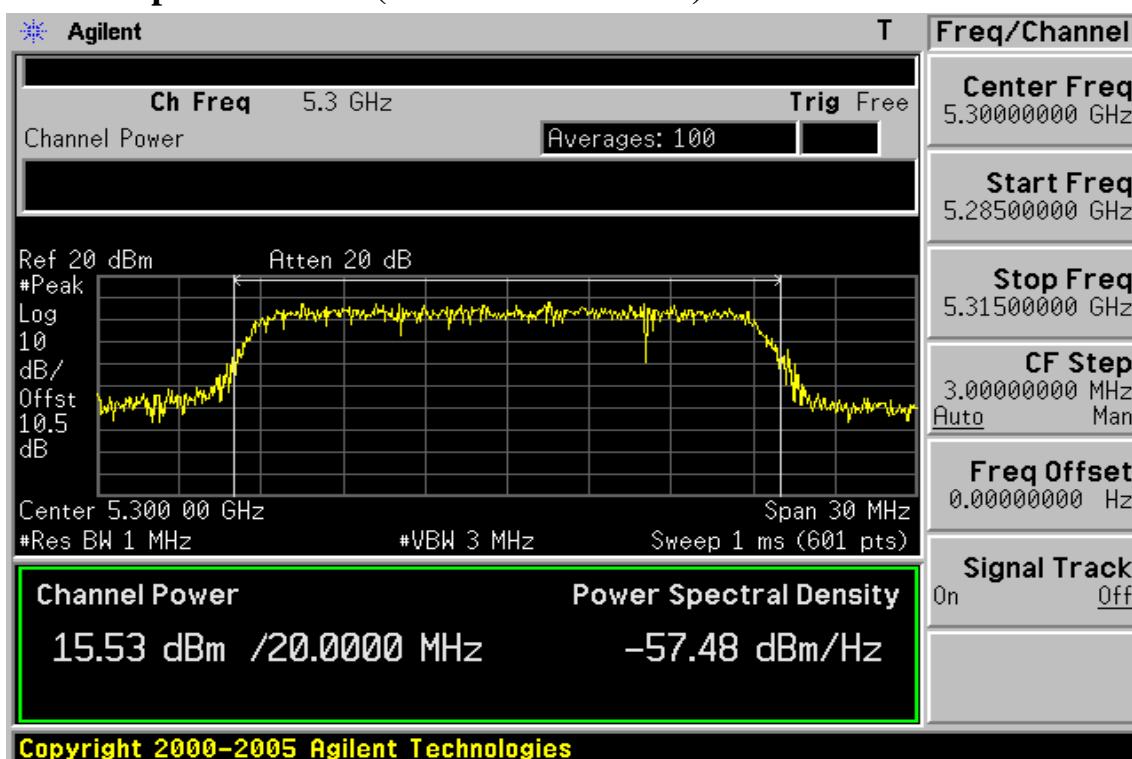
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## UNII HT20, 5250~5350 MHz

### Peak Power Output Data Plot (CH Low 5260 MHz)

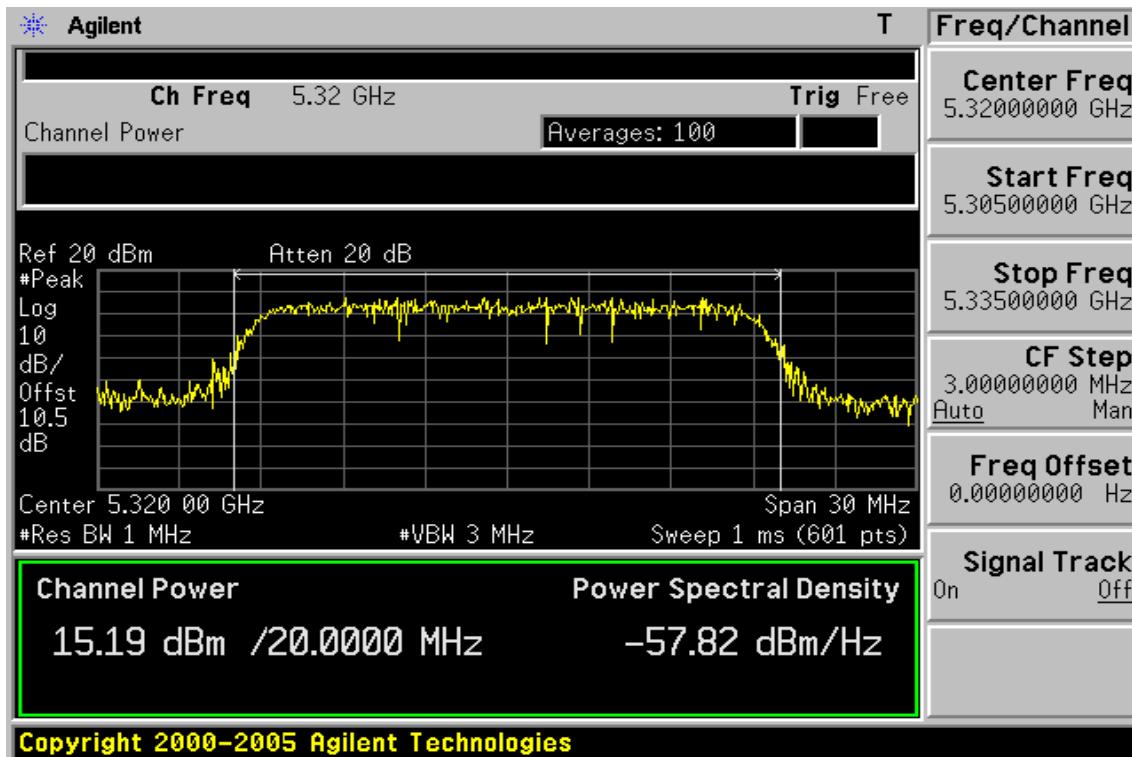


### Peak Power Output Data Plot (CH Mid 5300 MHz)



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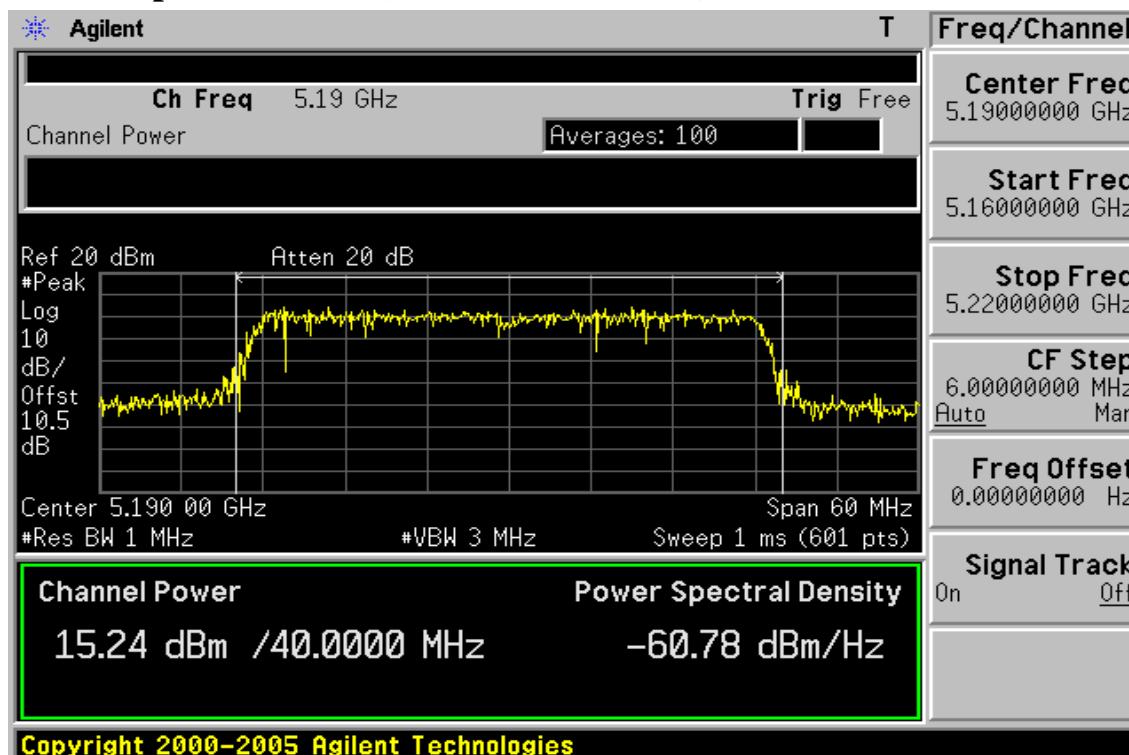
**Peak Power Output Data Plot (CH High 5320 MHz)**

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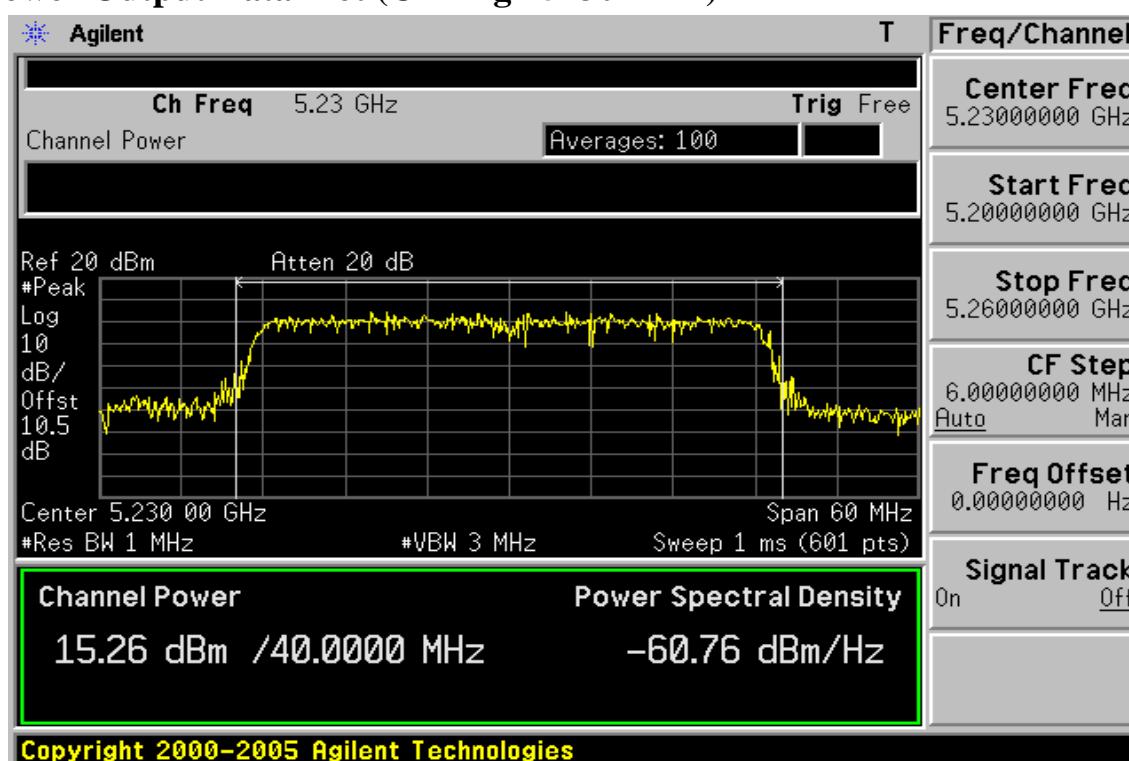
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## UNII HT40, 5190~5230 MHz

### Peak Power Output Data Plot (CH Low 5190 MHz)



### Peak Power Output Data Plot (CH High 5230 MHz)

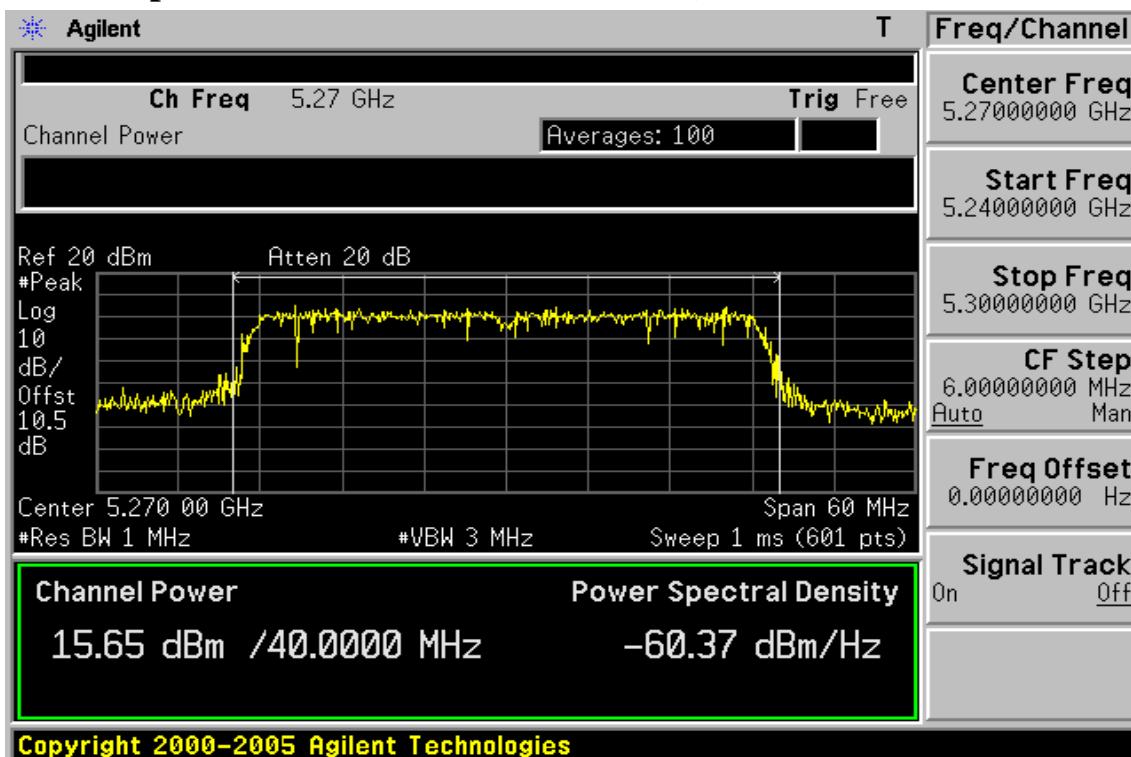


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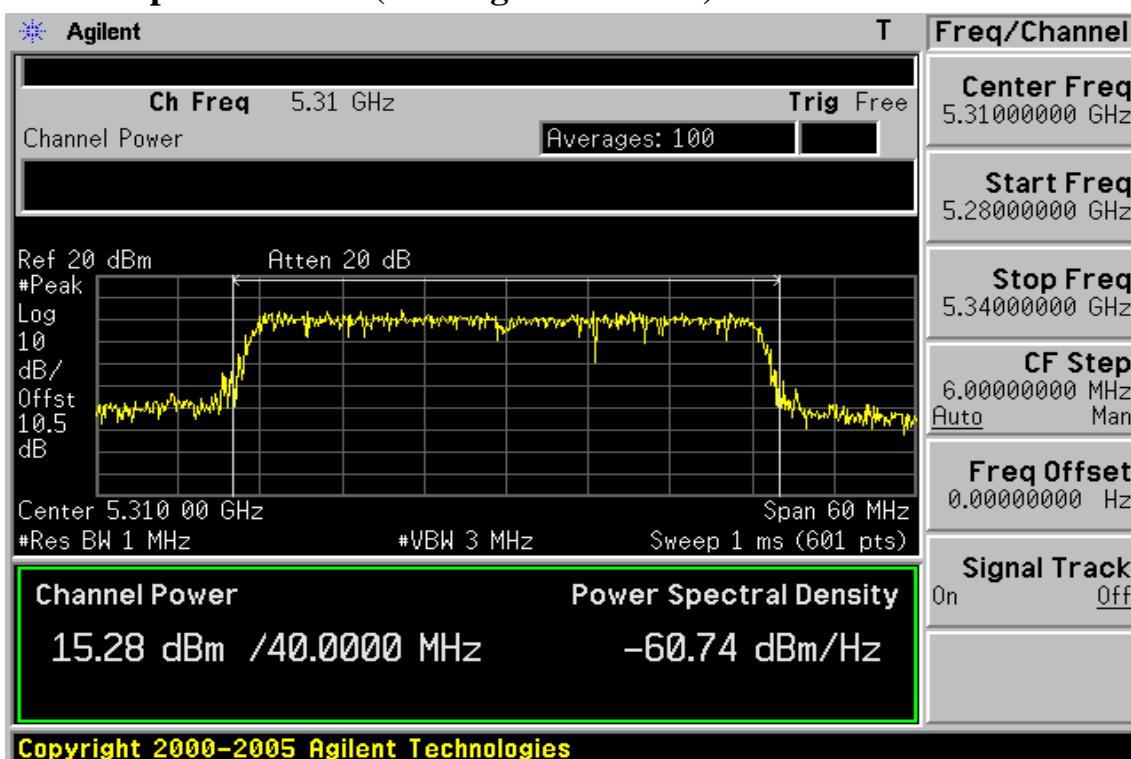
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## UNII HT40, 5250~5350 MHz

### Peak Power Output Data Plot (CH Low 5270 MHz)



### Peak Power Output Data Plot (CH High 5310 MHz)



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## 8. PEAK POWER SPECTRAL DENSITY

### 8.1 Standard Applicable

According to §15.407(a)

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

### 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 Spectrum.
3. Set RBW=1MHz,VBW=3MHz, Span=50MHz (Base Mode), Sweep time = Auto, traces 100 sweeps of video averaging.
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

### 8.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011

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## 8.4 Measurement Result

UNII, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.69	4.00	-4.69
5220	-0.96	4.00	-4.96
5240	-0.01	4.00	-4.01

UNII, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-0.20	11.00	-11.20
5300	-0.94	11.00	-11.94
5320	-0.21	11.00	-11.21

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UNII HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.90	4.00	-4.90
5220	-1.28	4.00	-5.28
5240	-0.07	4.00	-4.07

UNII HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-0.67	11.00	-11.67
5300	-1.46	11.00	-12.46
5320	-0.07	11.00	-11.07

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UNII HT40, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-3.47	4.00	-7.47
5230	-3.19	4.00	-7.19

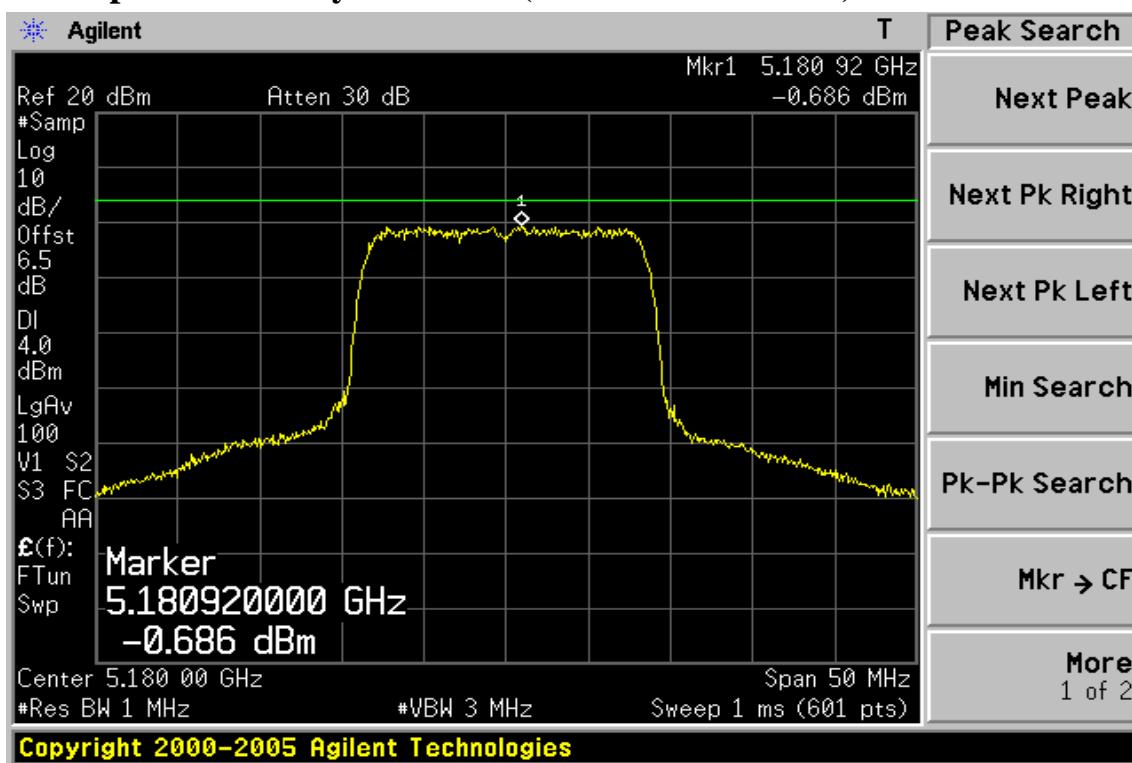
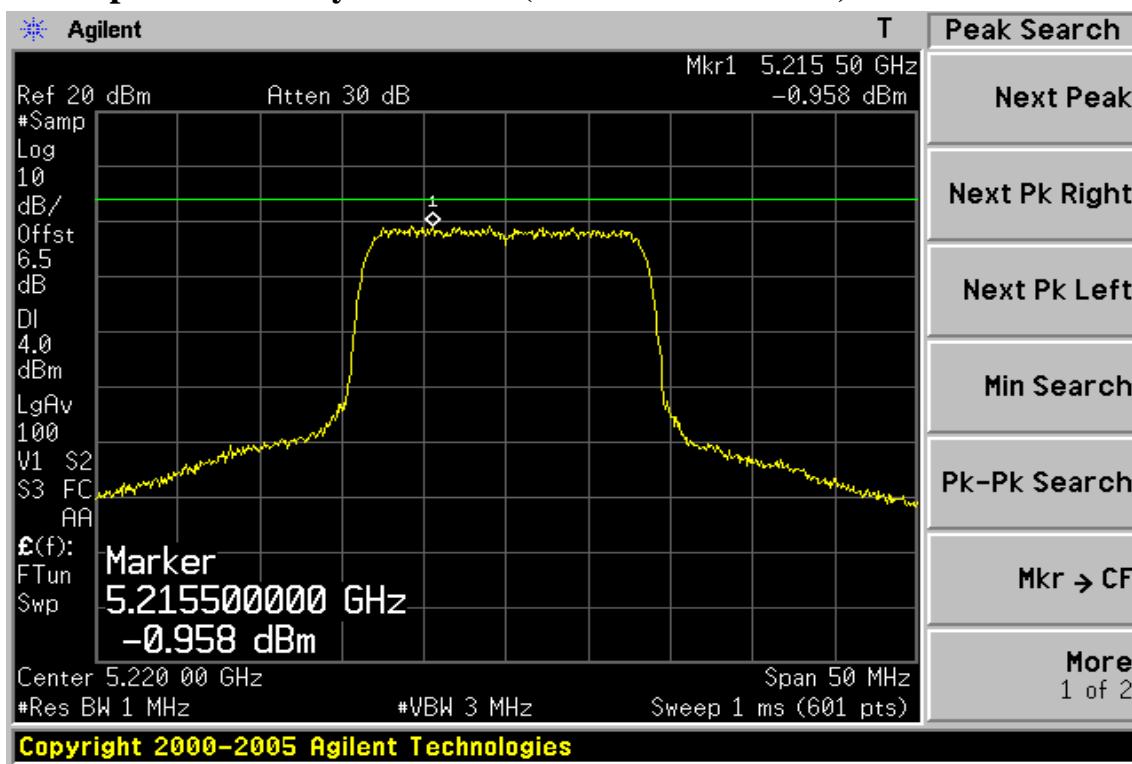
UNII HT40, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5270	-3.59	11.00	-14.59
5310	-2.85	11.00	-13.85

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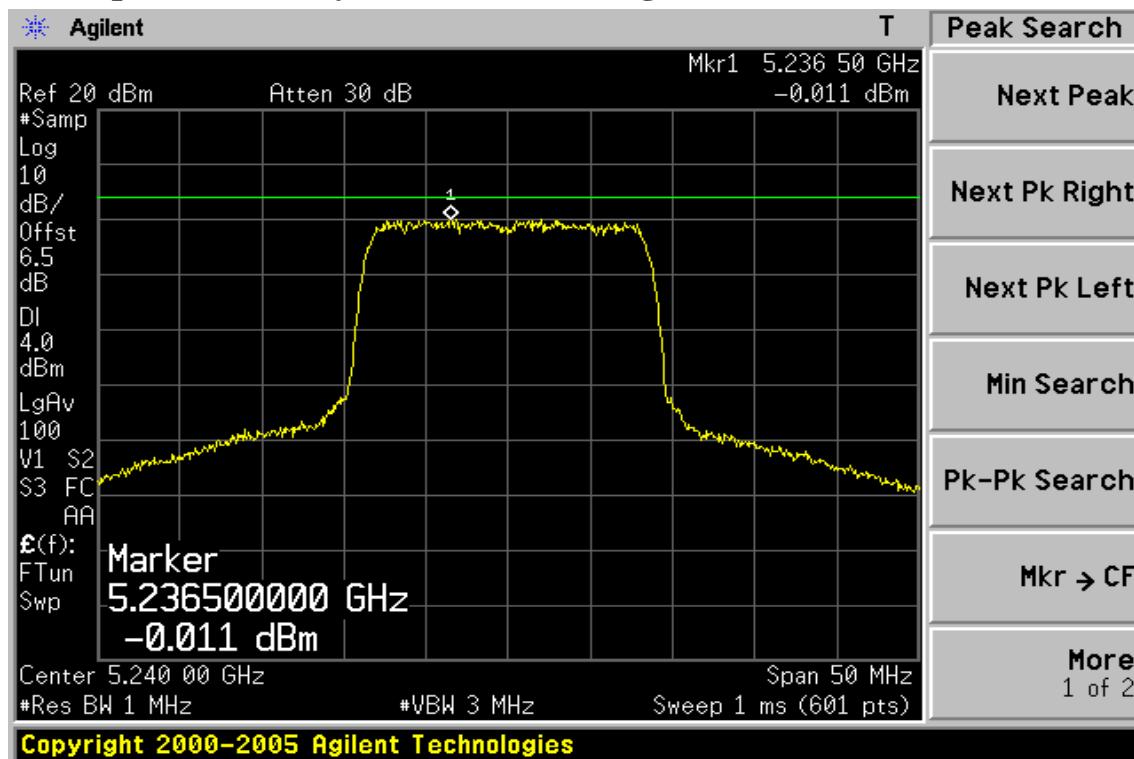
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**UNII, 5150~5250 MHz**
**Peak Power Spectral Density Data Plot (CH Low 5180 MHz)**

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


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

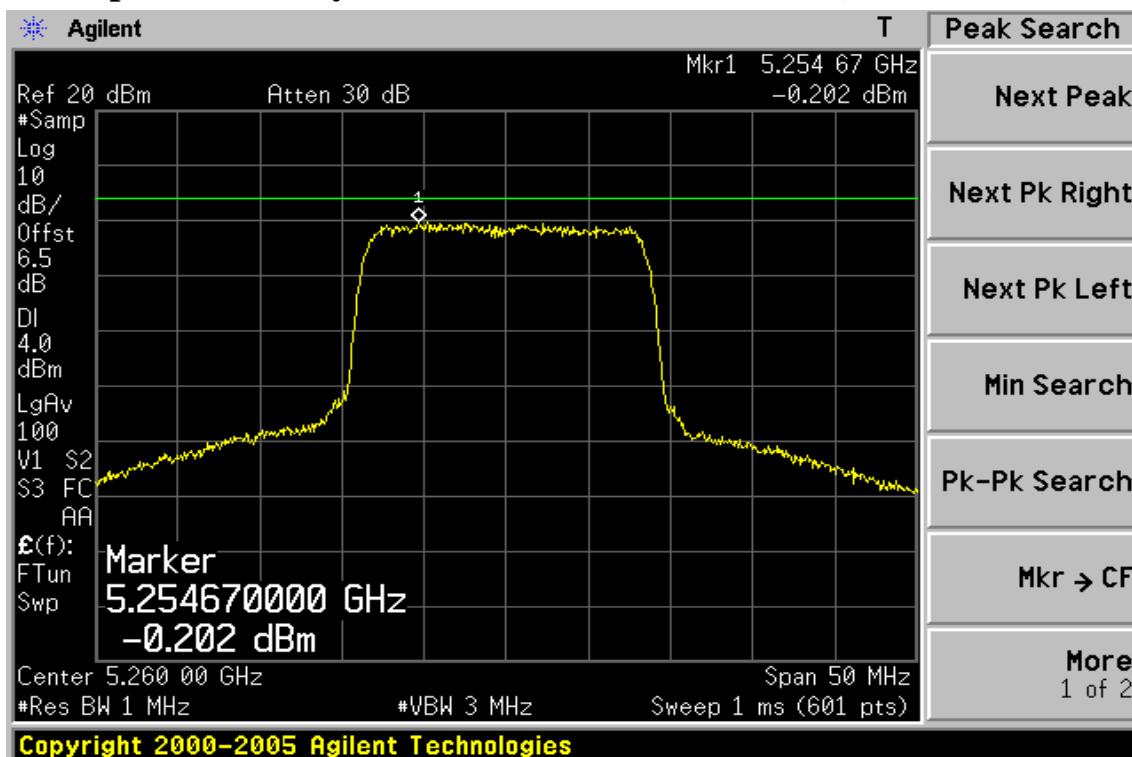


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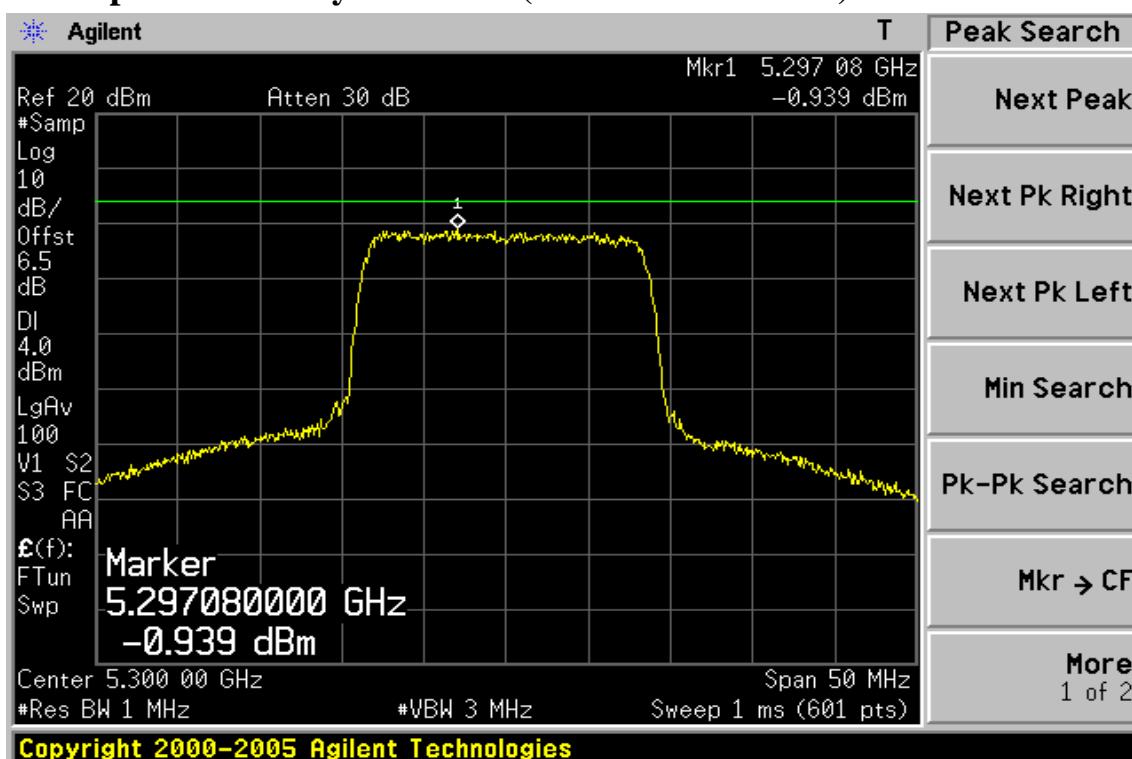
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UNII, 5250~5350 MHz

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



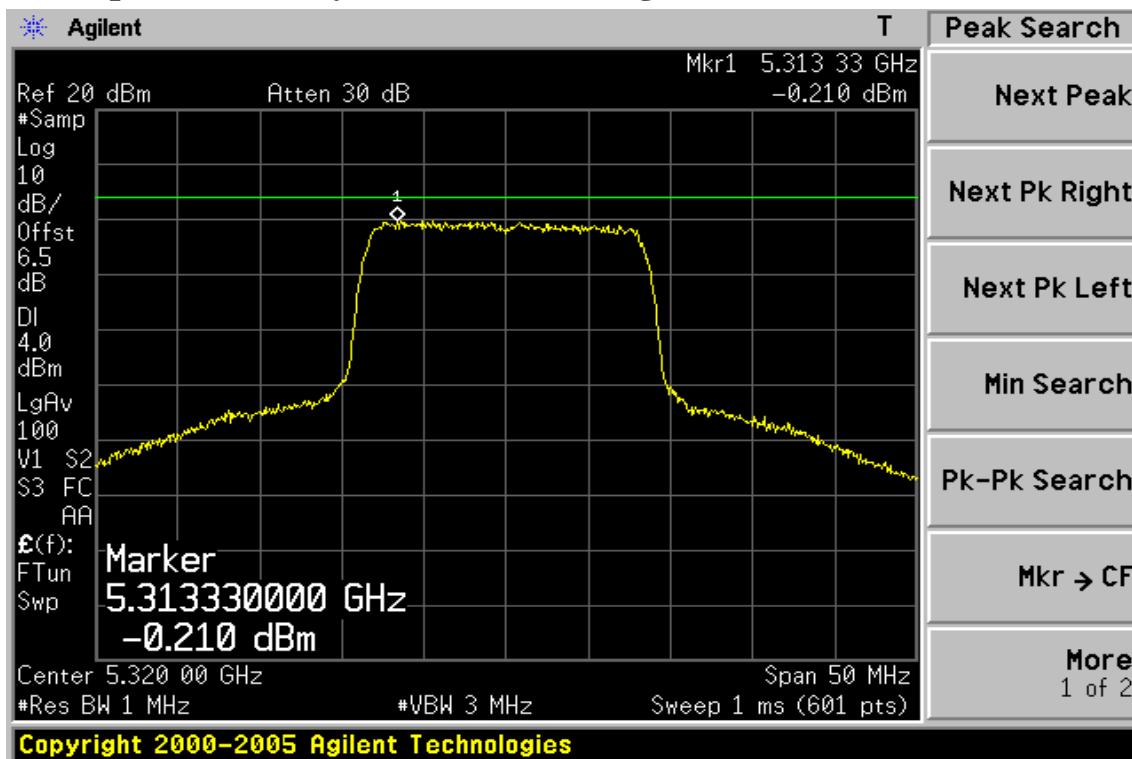
## Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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

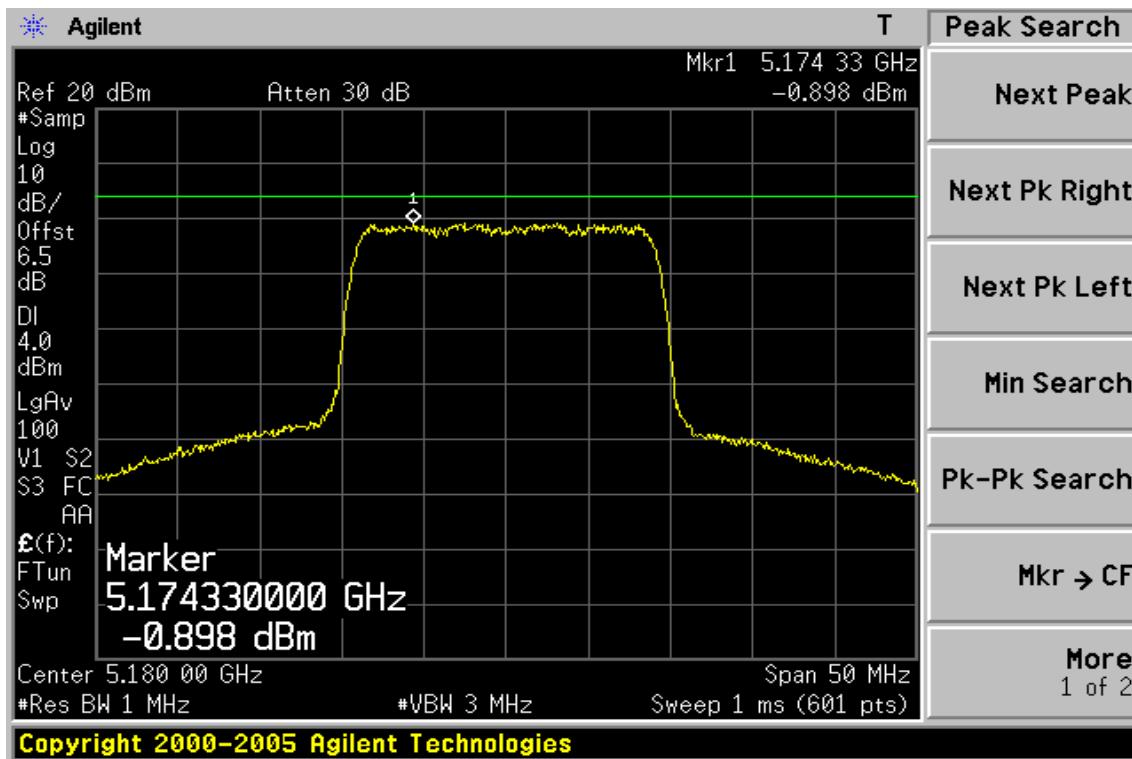


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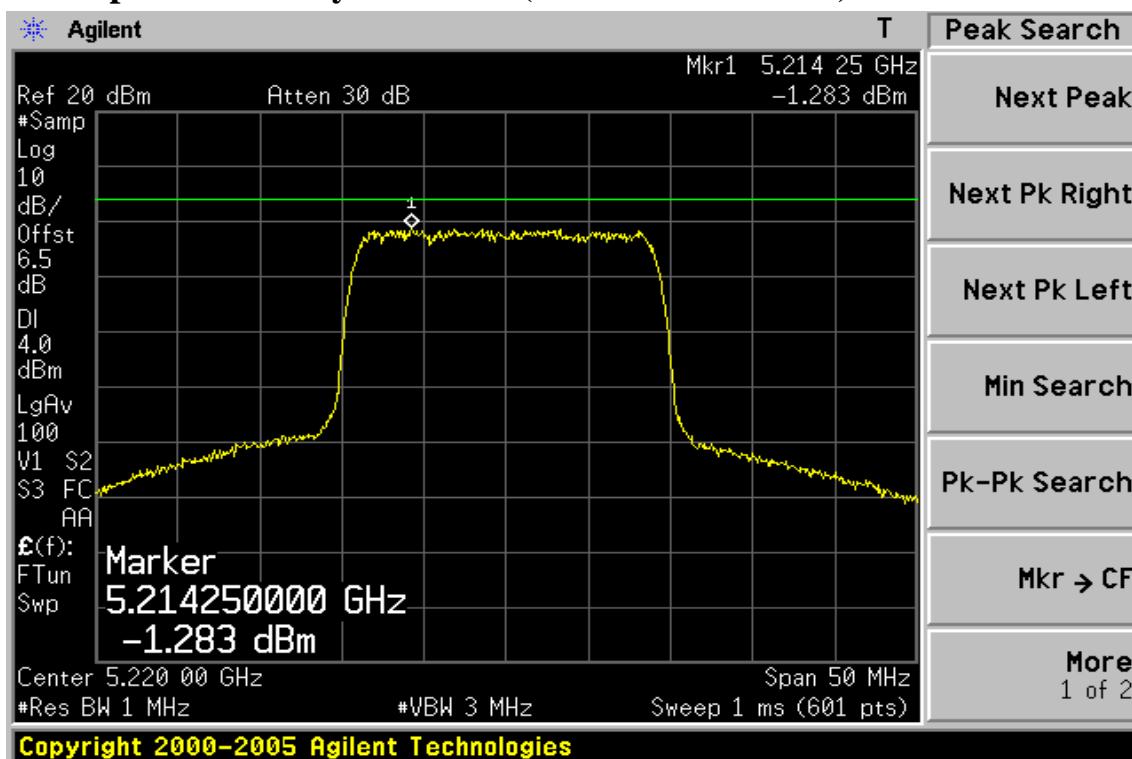
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## UNII HT20, 5150~5250 MHz

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

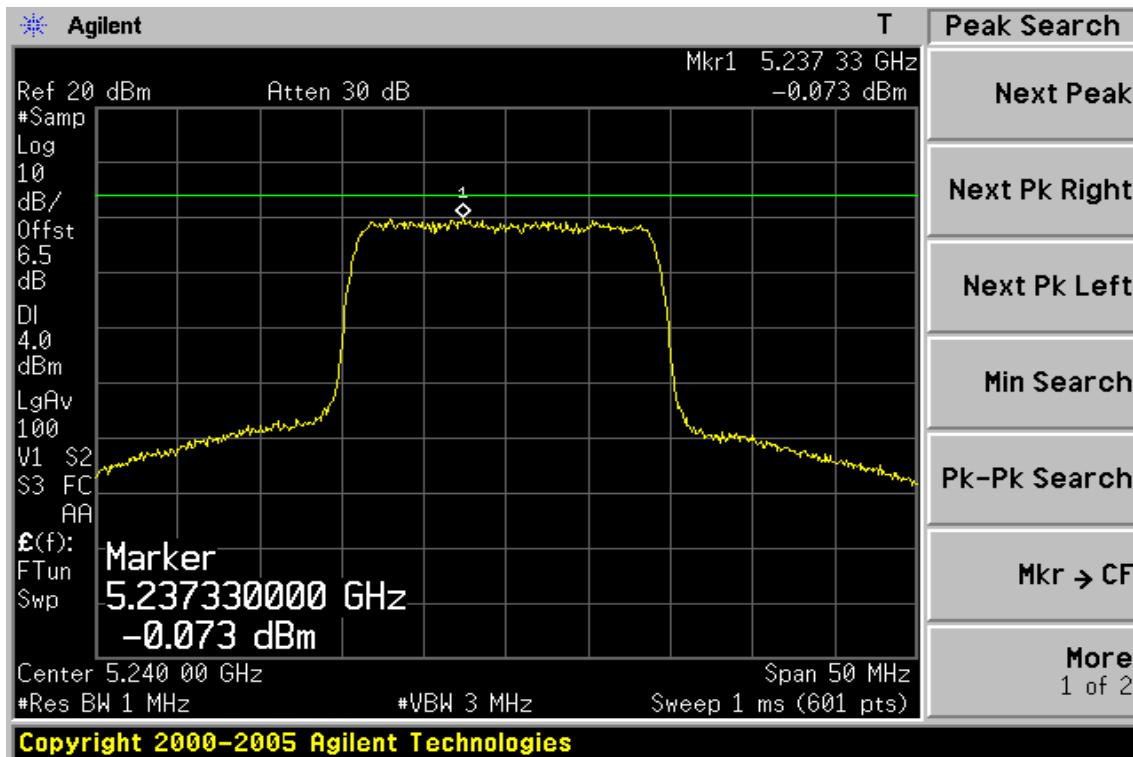


### Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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

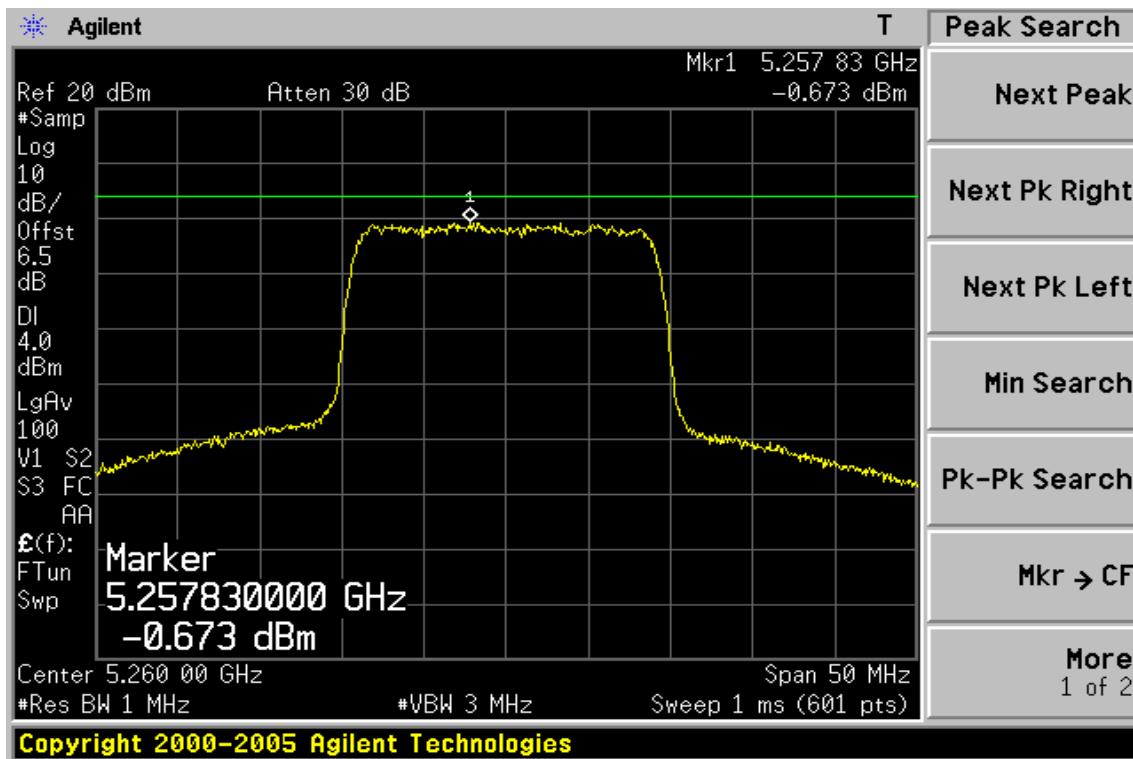
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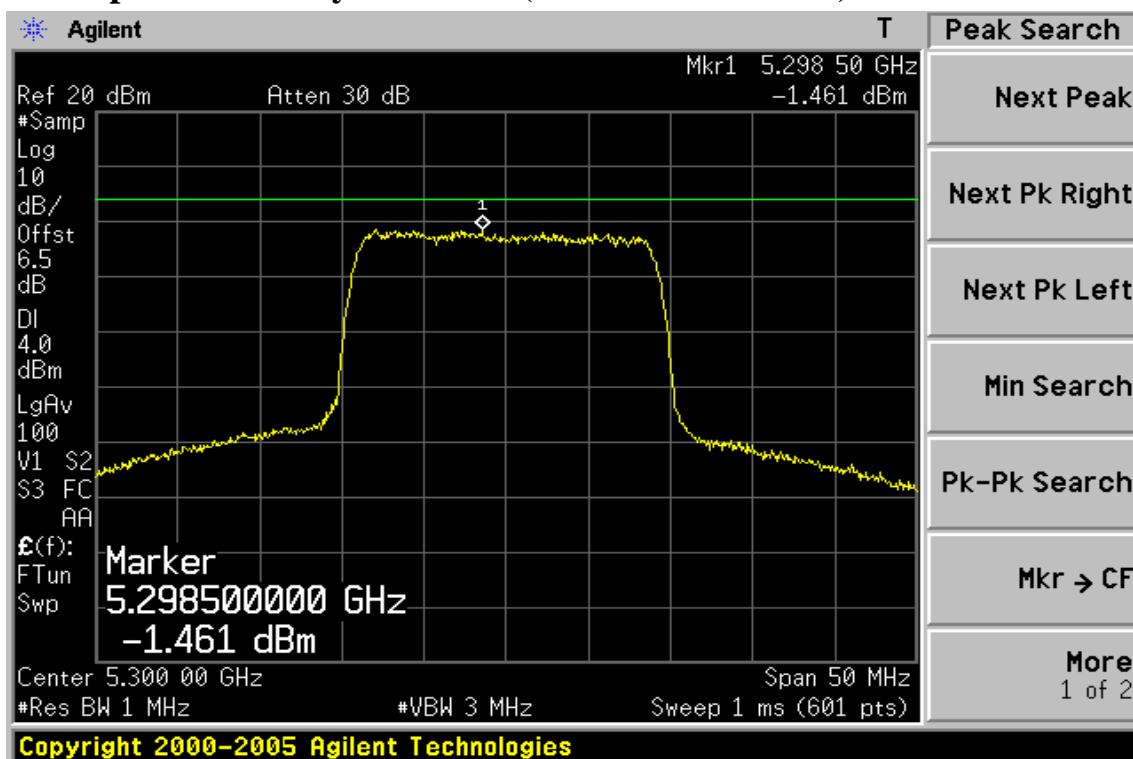
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## UNII HT20, 5250~5350 MHz

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

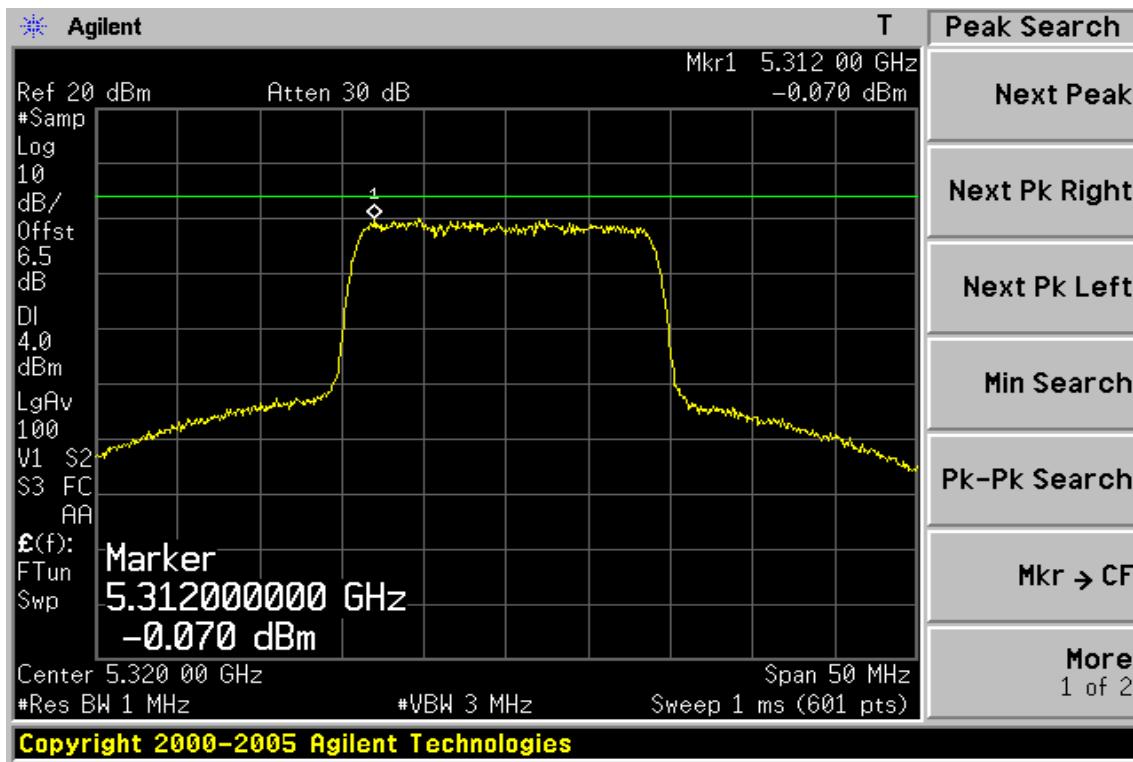


### Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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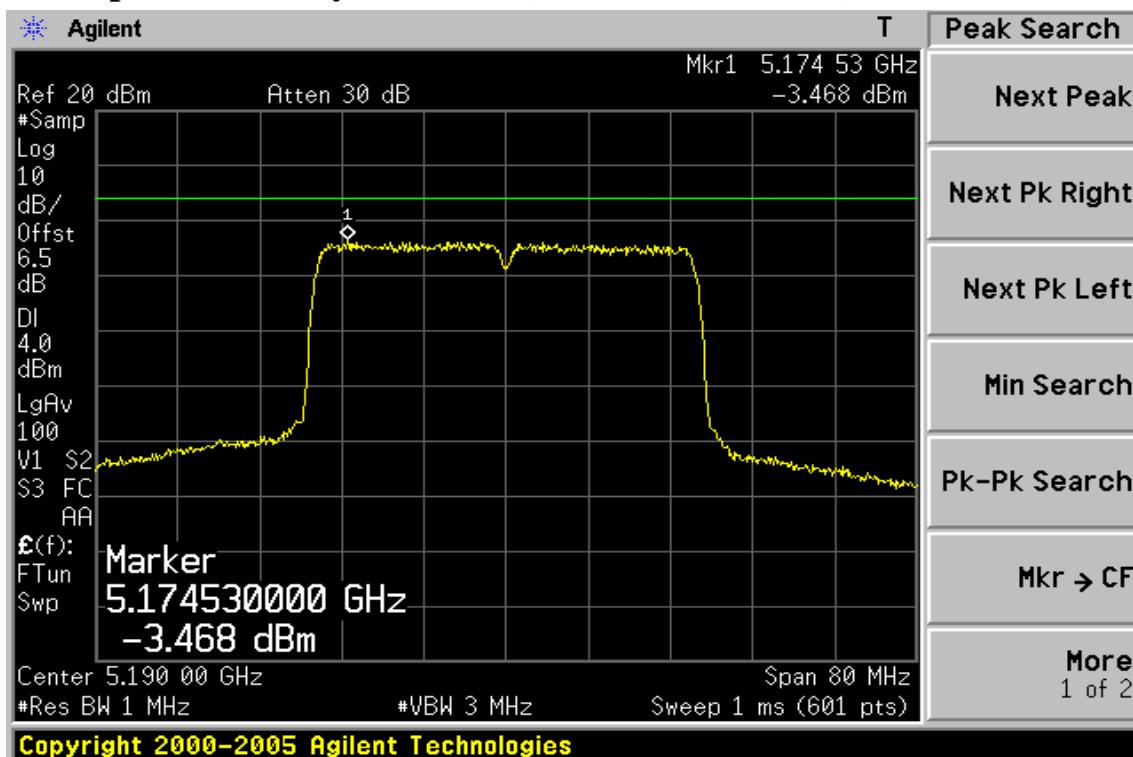
**Peak Power Spectral Density Data Plot (CH High 5320 MHz)**

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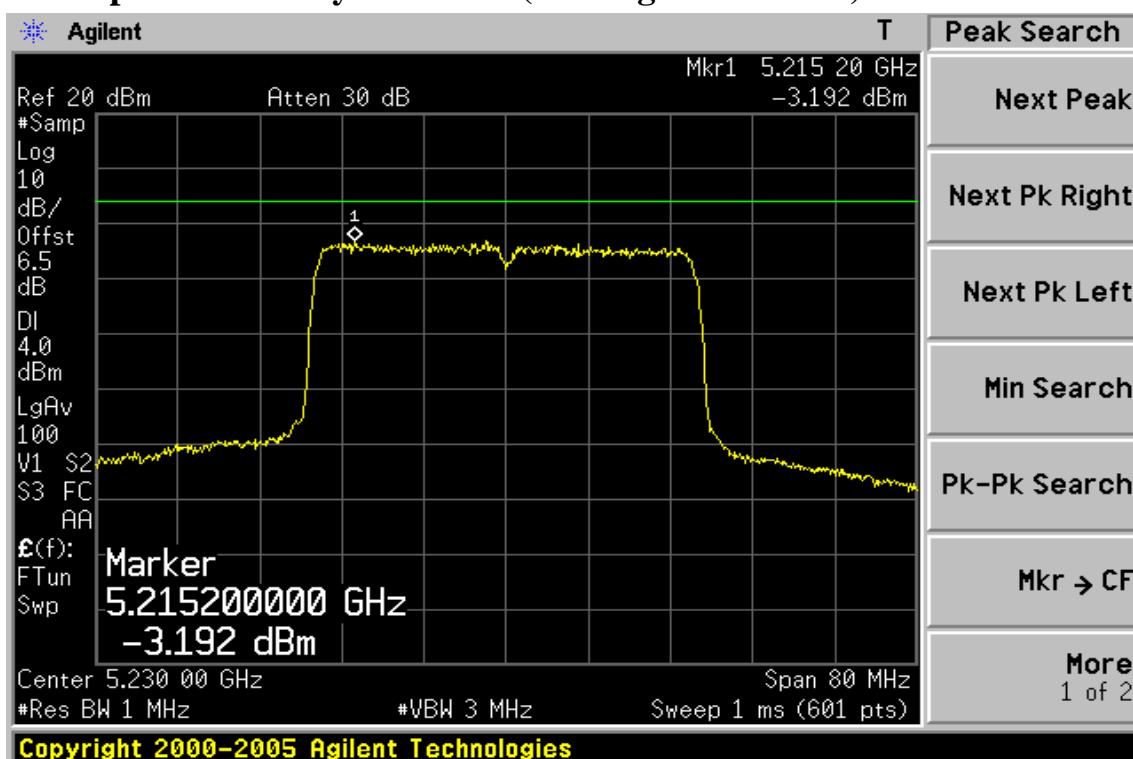
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## UNII HT40, 5150~5250 MHz

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



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

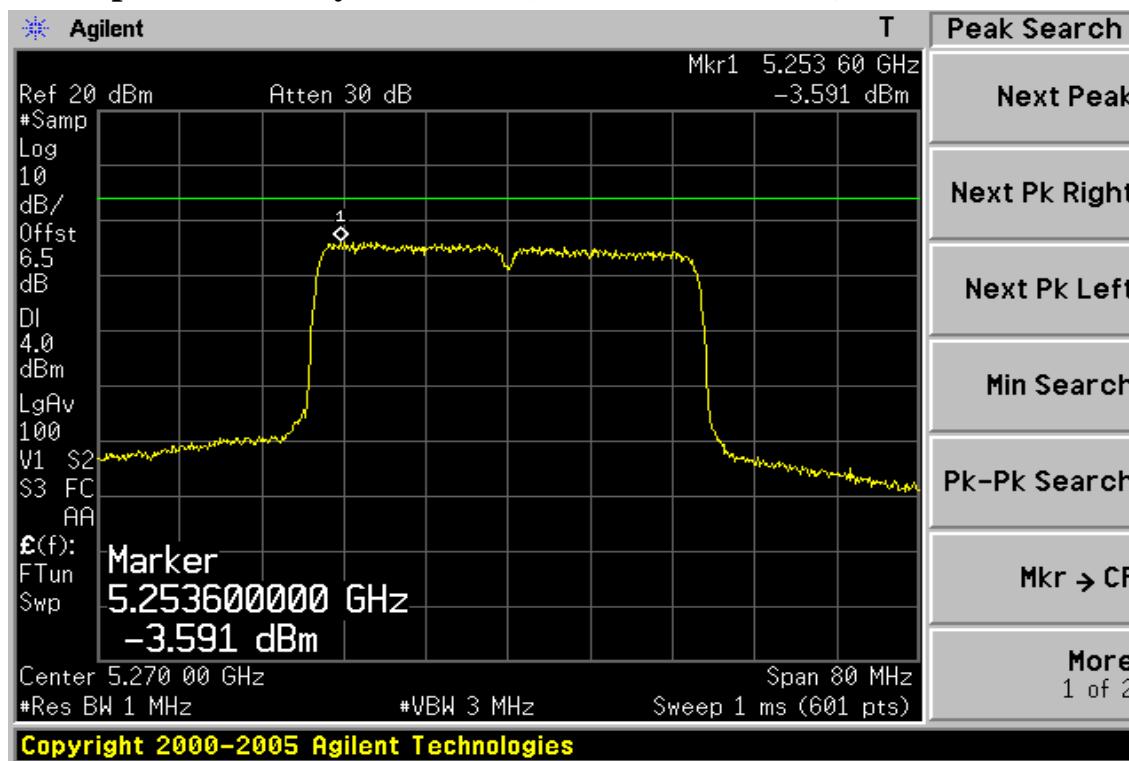


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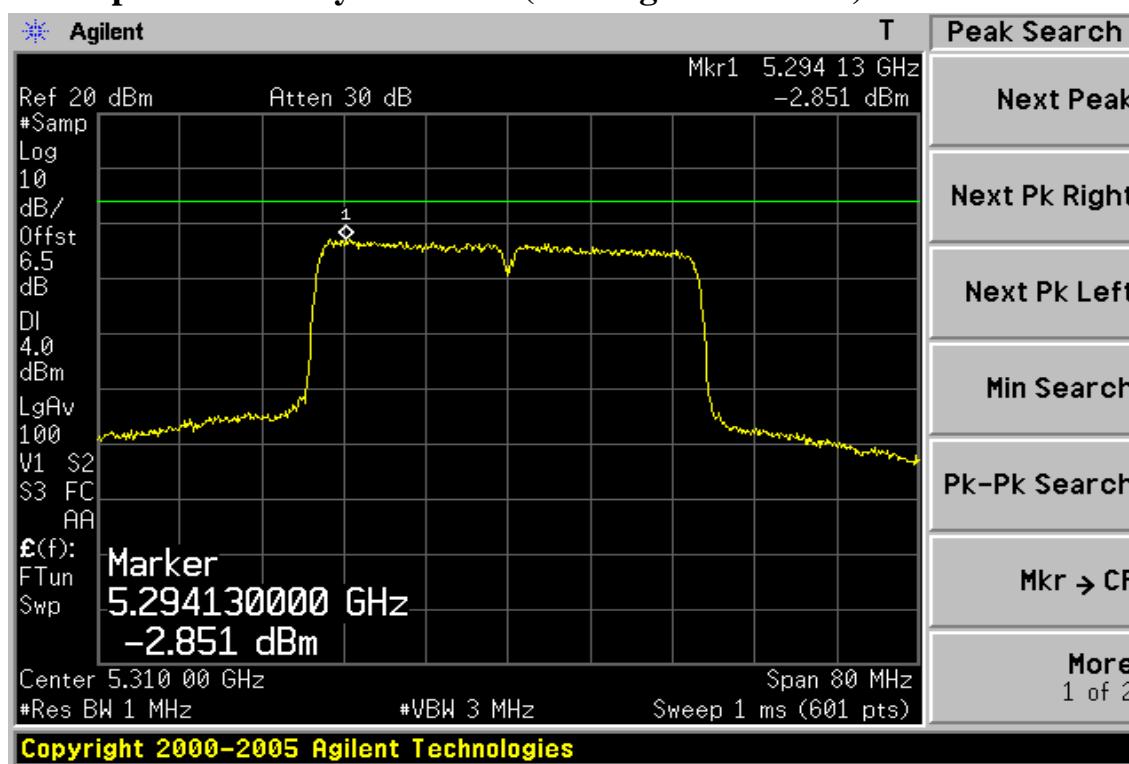
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## UNII HT40, 5250~5350 MHz

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



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



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## 9. PEAK EXCURSION MEASUREMENT

### 9.1 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.

### 9.2 Measurement Procedure

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

### 9.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011

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## 9.4 Test Results:

UNII, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	6.79	13.00	-6.21
Mid	5220	6.35	13.00	-6.65
High	5240	7.24	13.00	-5.76

UNII, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	7.20	13.00	-5.80
Mid	5300	7.04	13.00	-5.96
High	5320	7.04	13.00	-5.96

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UNII HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	7.41	13.00	-5.59
Mid	5220	6.59	13.00	-6.41
High	5240	7.02	13.00	-5.98

UNII HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	7.72	13.00	-5.28
Mid	5300	6.30	13.00	-6.70
High	5320	7.30	13.00	-5.70

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UNII HT40, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5190	6.82	13.00	-6.18
High	5230	6.74	13.00	-6.26

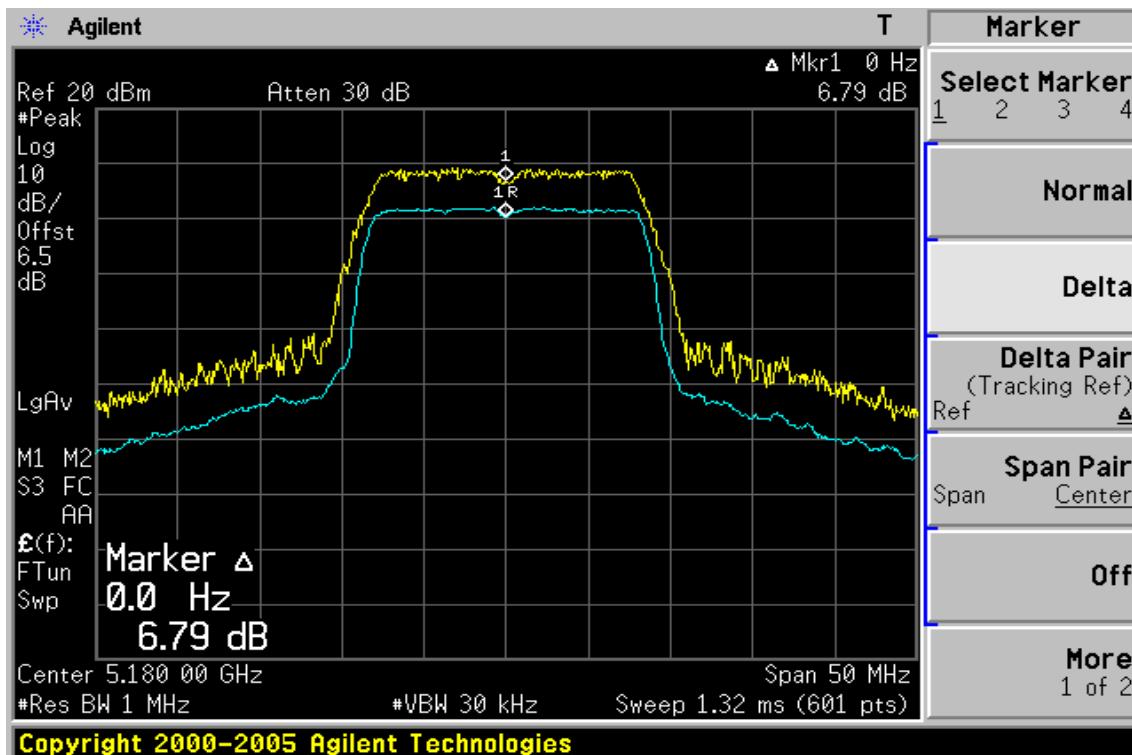
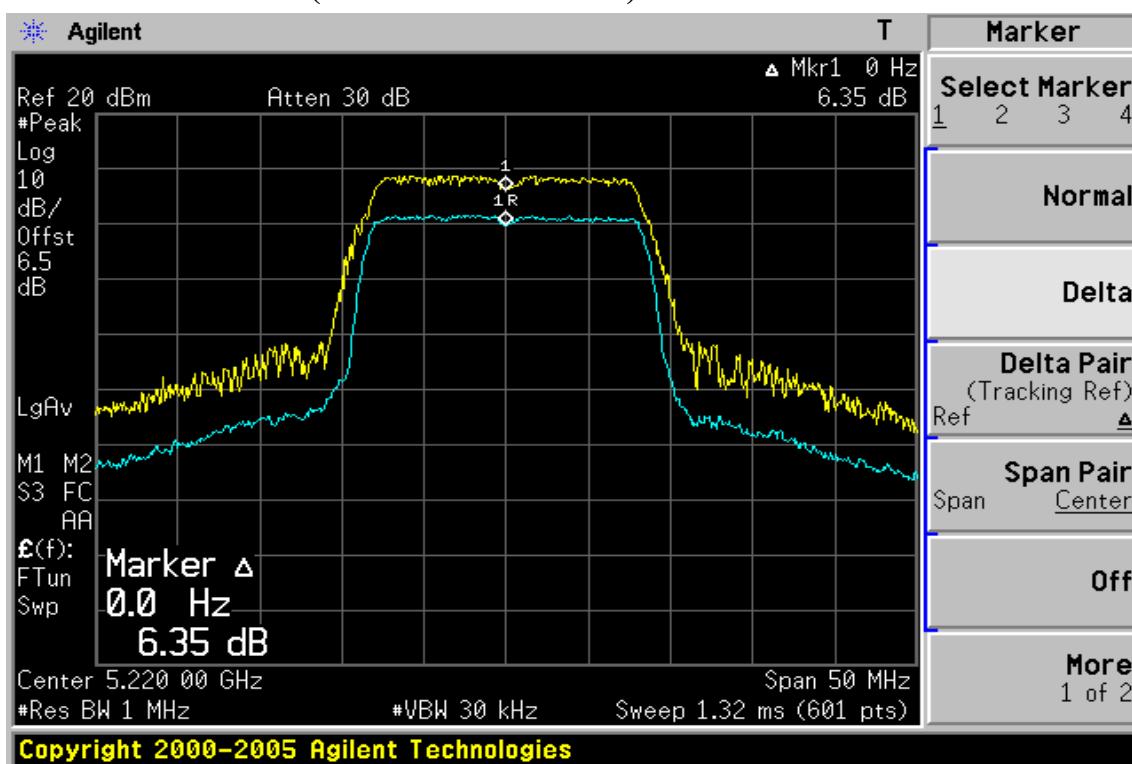
UNII HT40, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5270	8.11	13.00	-4.89
High	5310	7.48	13.00	-5.52

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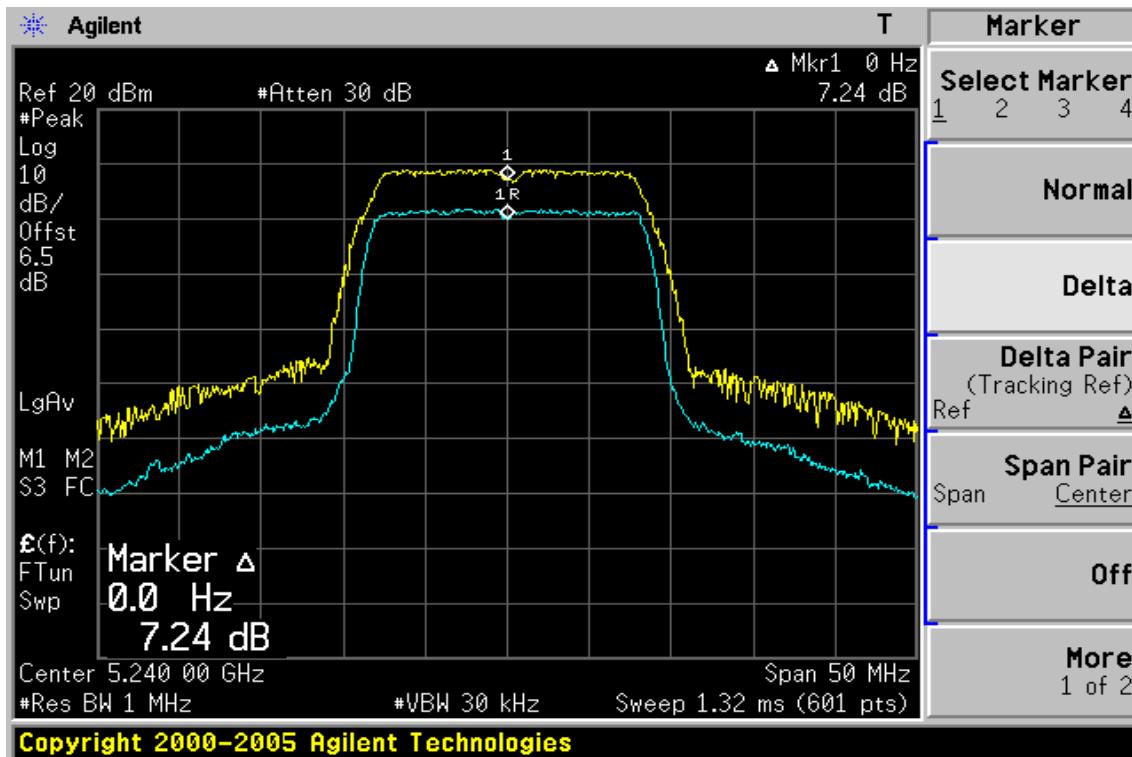
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**UNII, 5150~5250 MHz**
**Peak Excursion Data Plot (CH Low 5180 MHz)**

**Peak Excursion Data Plot (CH Mid 5220 MHz)**


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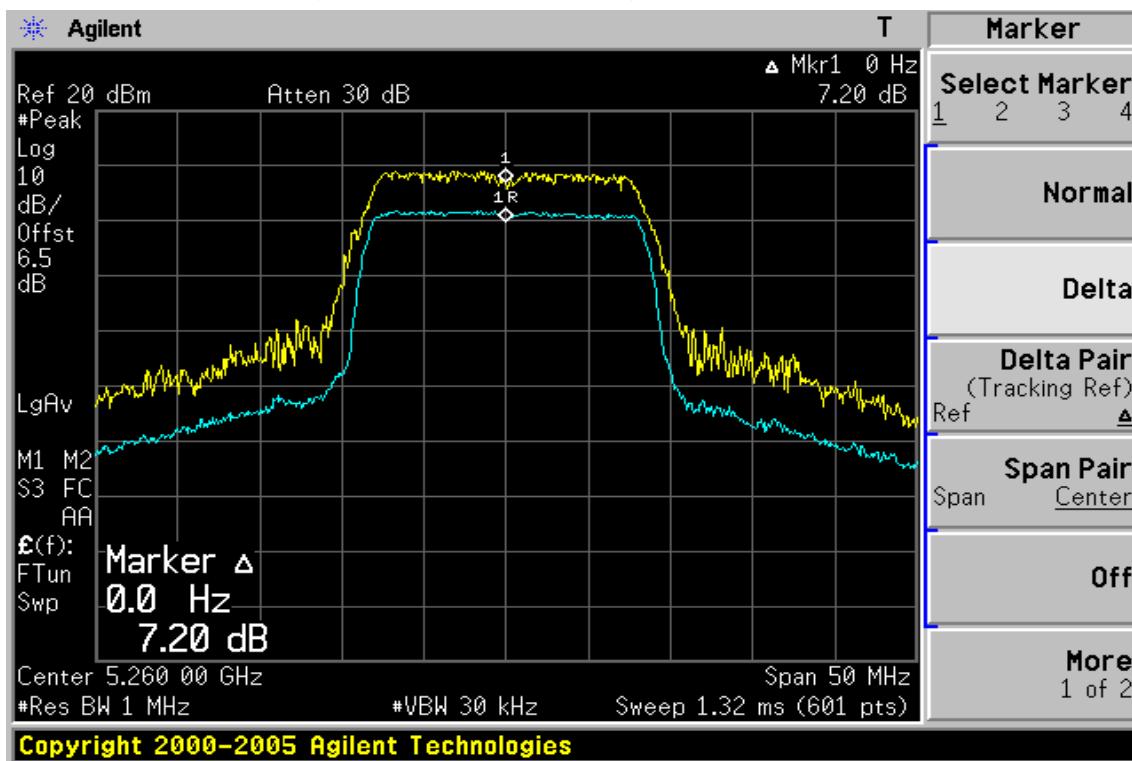
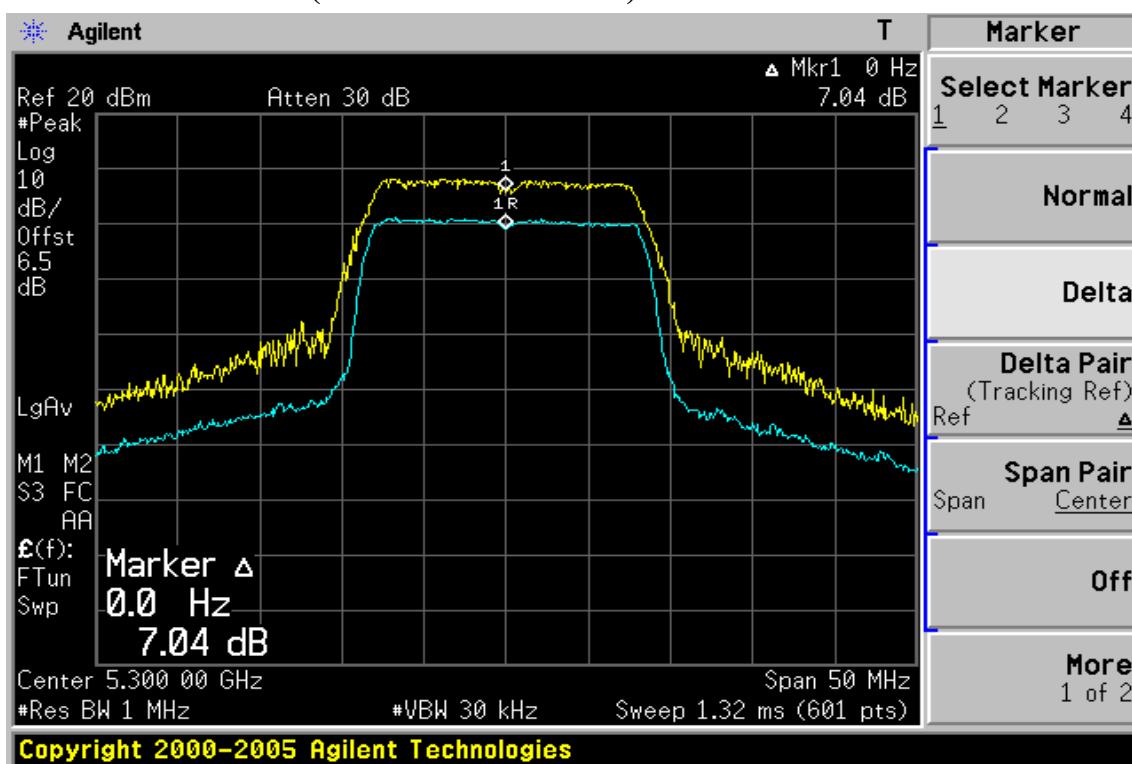
## Peak Excursion Data Plot (CH High 5240 MHz)



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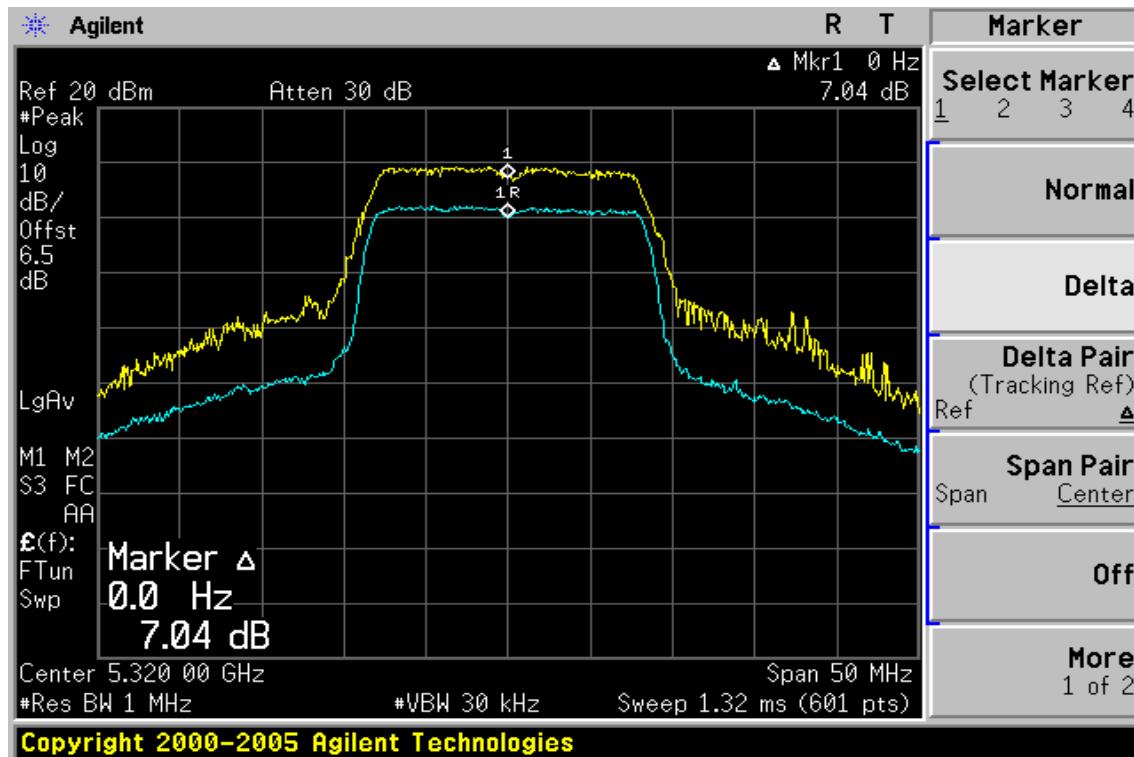
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**UNII, 5250~5350 MHz**
**Peak Excursion Data Plot (CH Low 5260 MHz)**

**Peak Excursion Data Plot (CH Mid 5300 MHz)**


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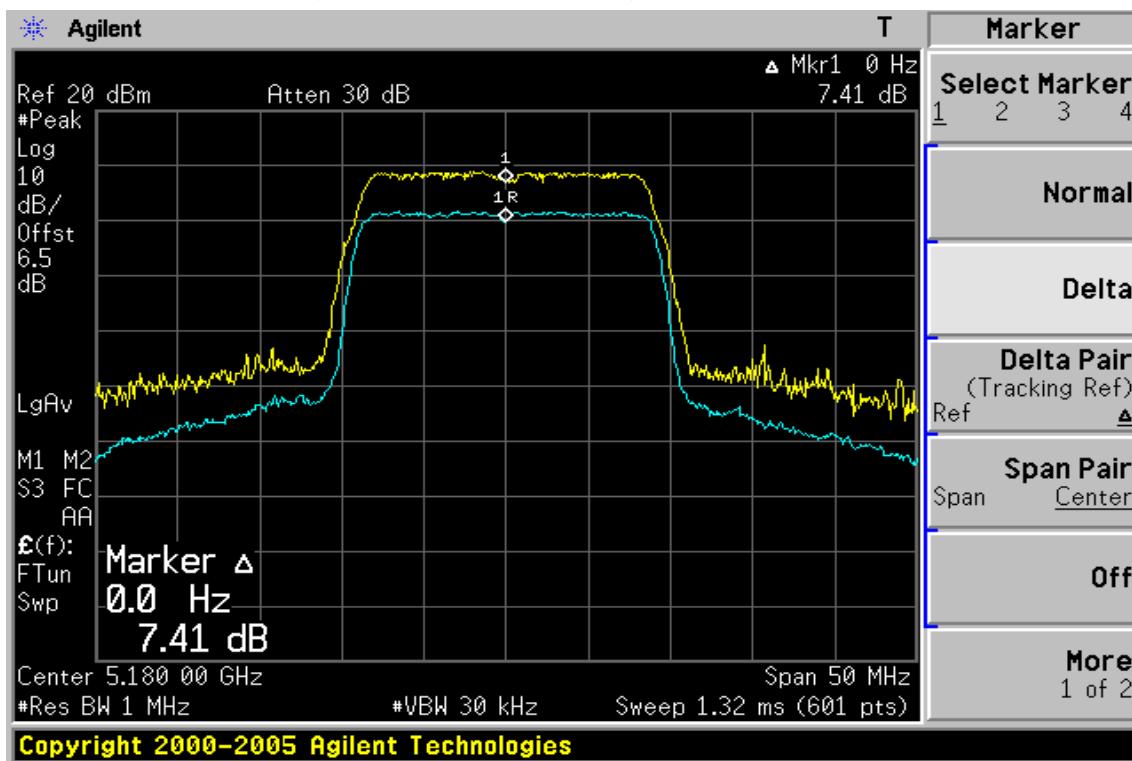
**Peak Excursion Data Plot (CH High 5320 MHz)**

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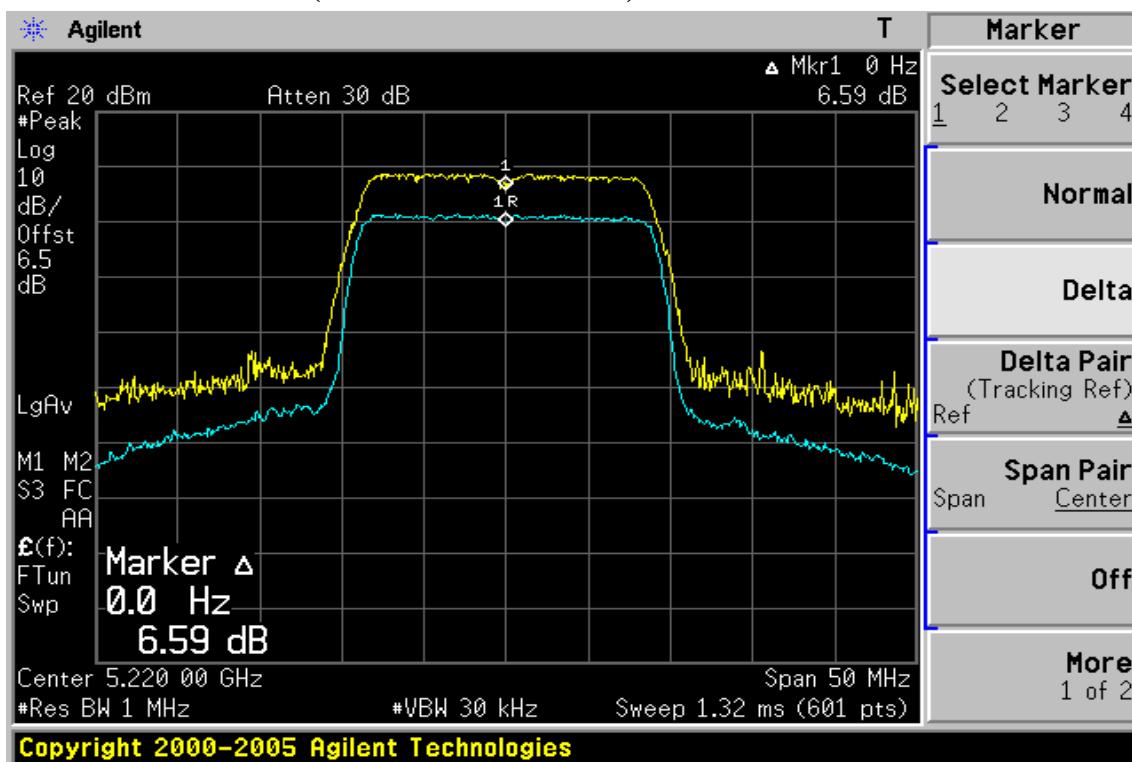
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## UNII, HT20, 5150~5250 MHz

### Peak Excursion Data Plot (CH Low 5180 MHz)



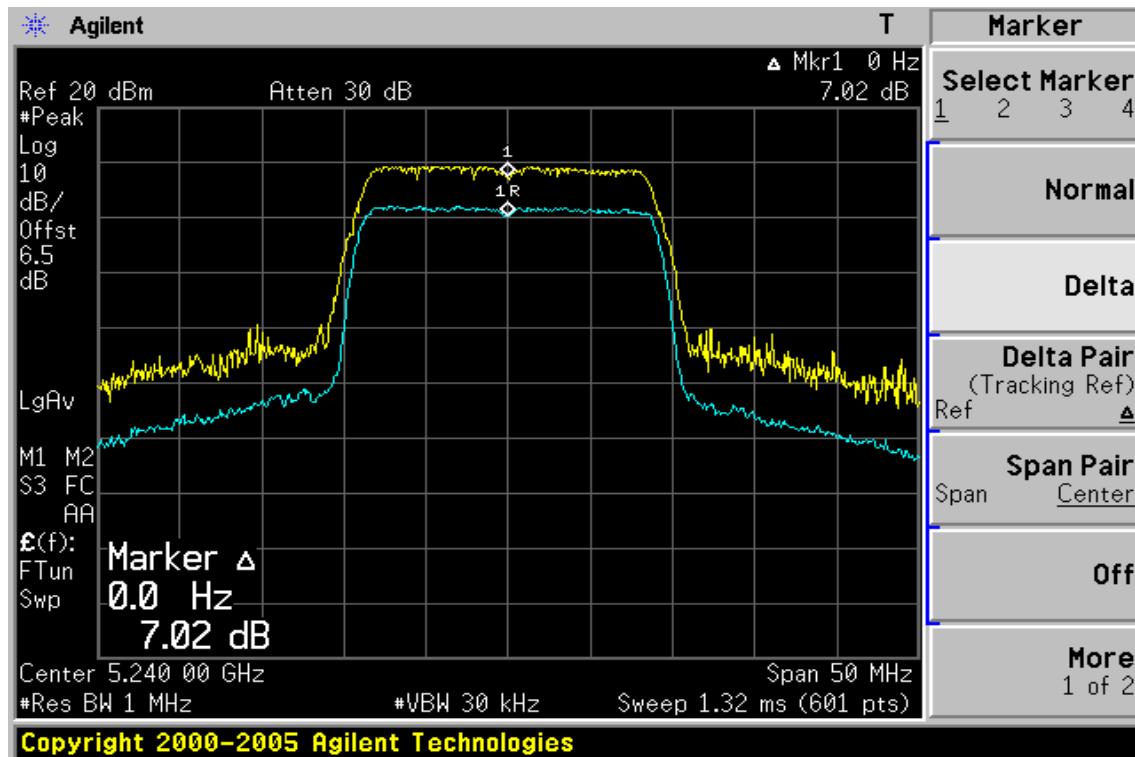
### Peak Excursion Data Plot (CH Mid 5220 MHz)



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## Peak Excursion Data Plot (CH High 5240 MHz)

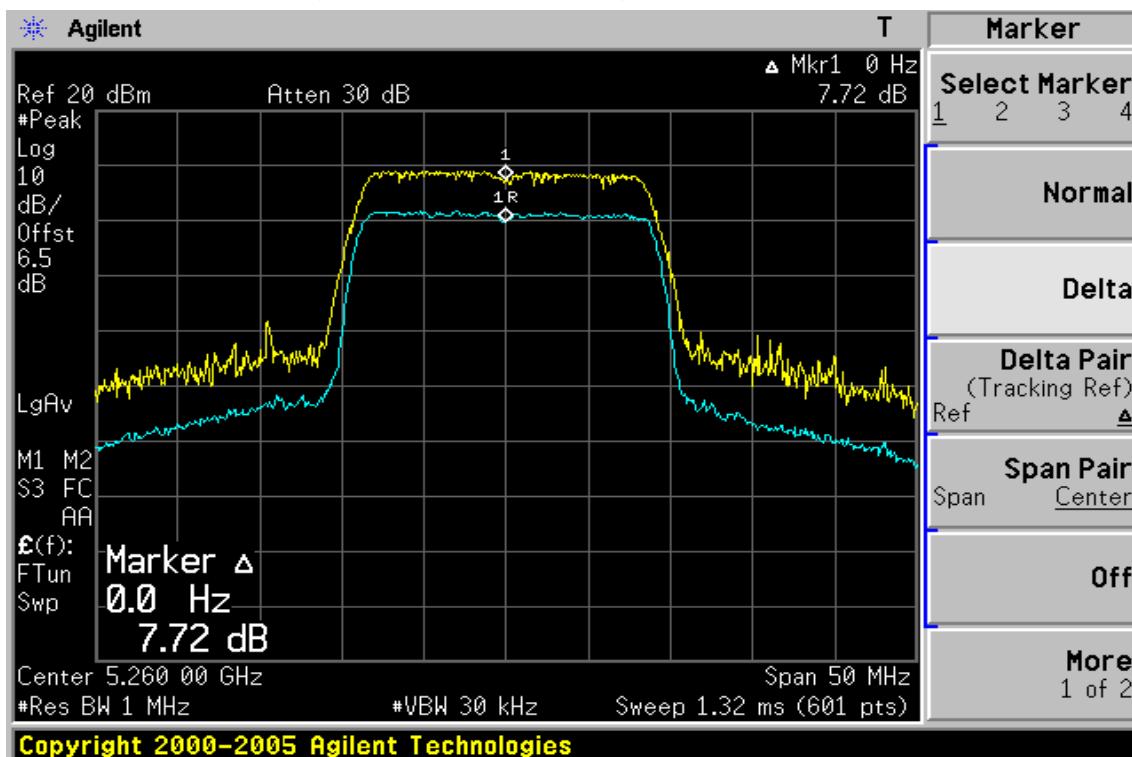


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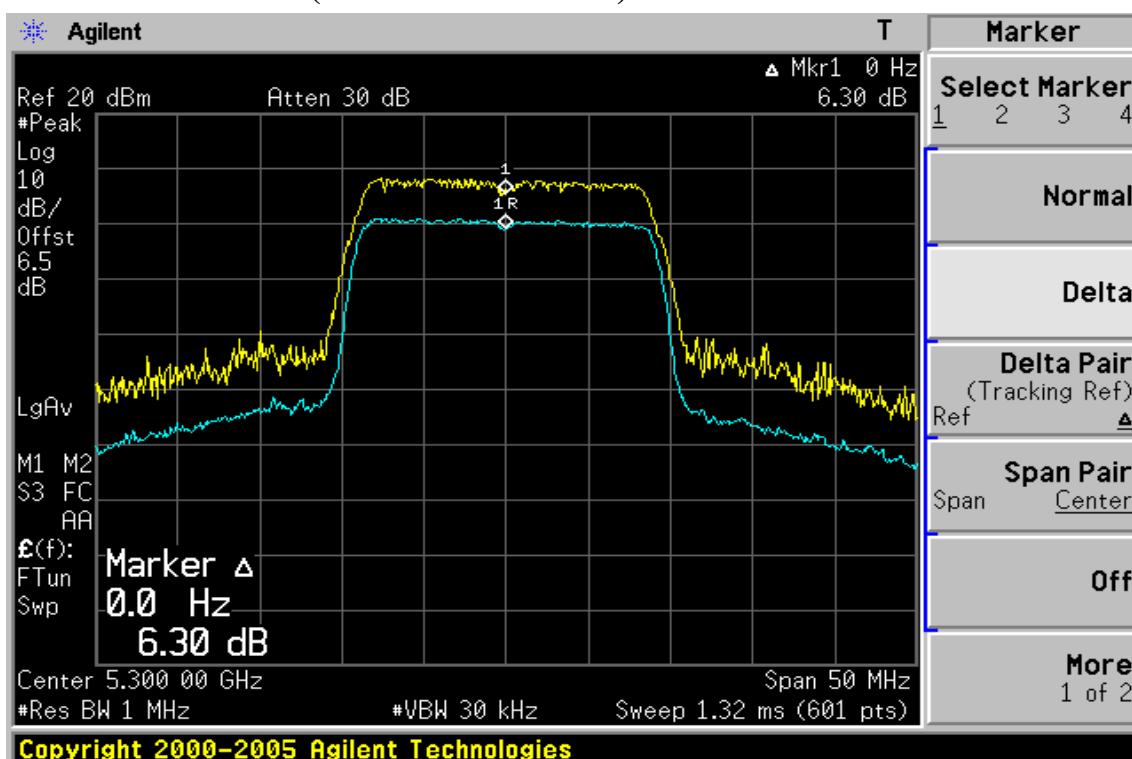
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## UNII, HT20, 5250~5350 MHz

### Peak Excursion Data Plot (CH Low 5260MHz)

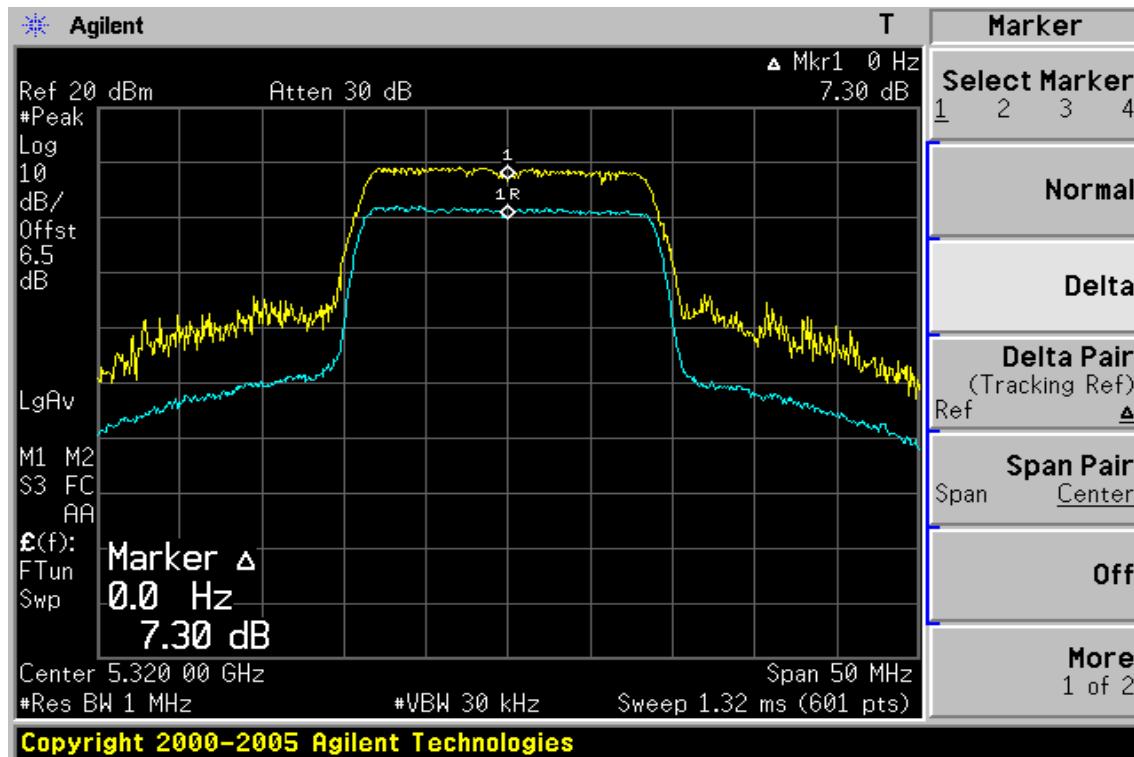


### Peak Excursion Data Plot (CH Mid 5300MHz)



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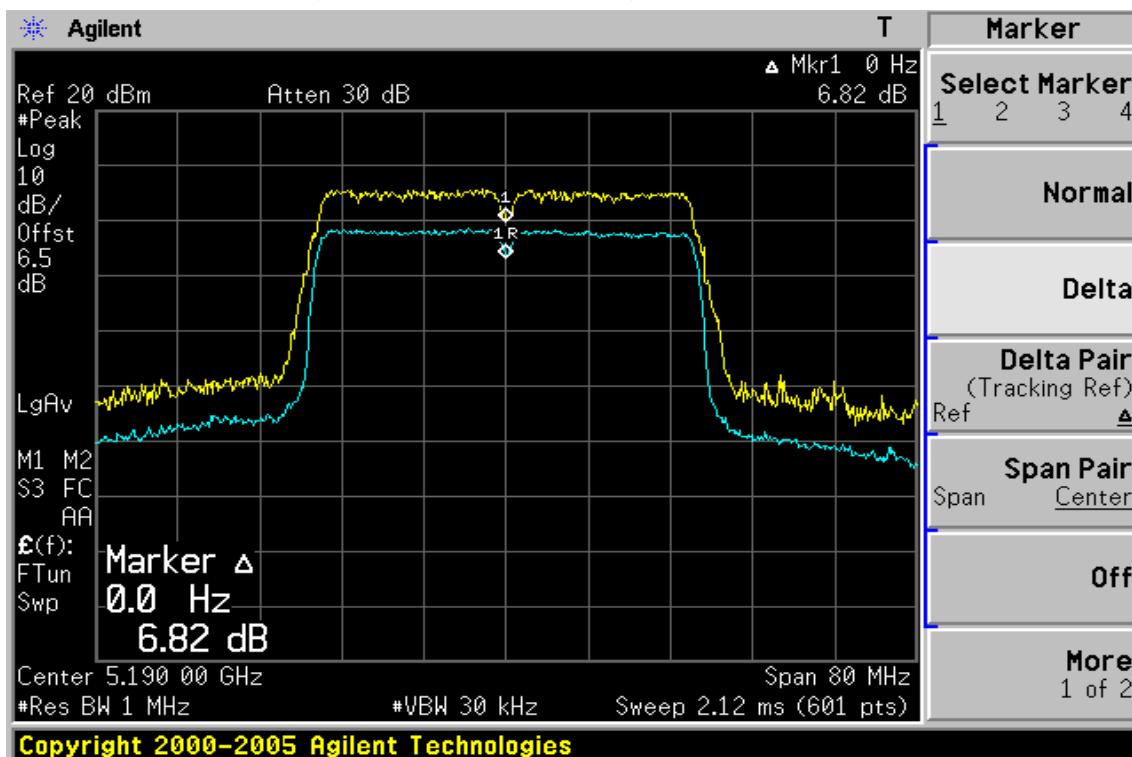
**Peak Excursion Data Plot (CH High 5320MHz)**

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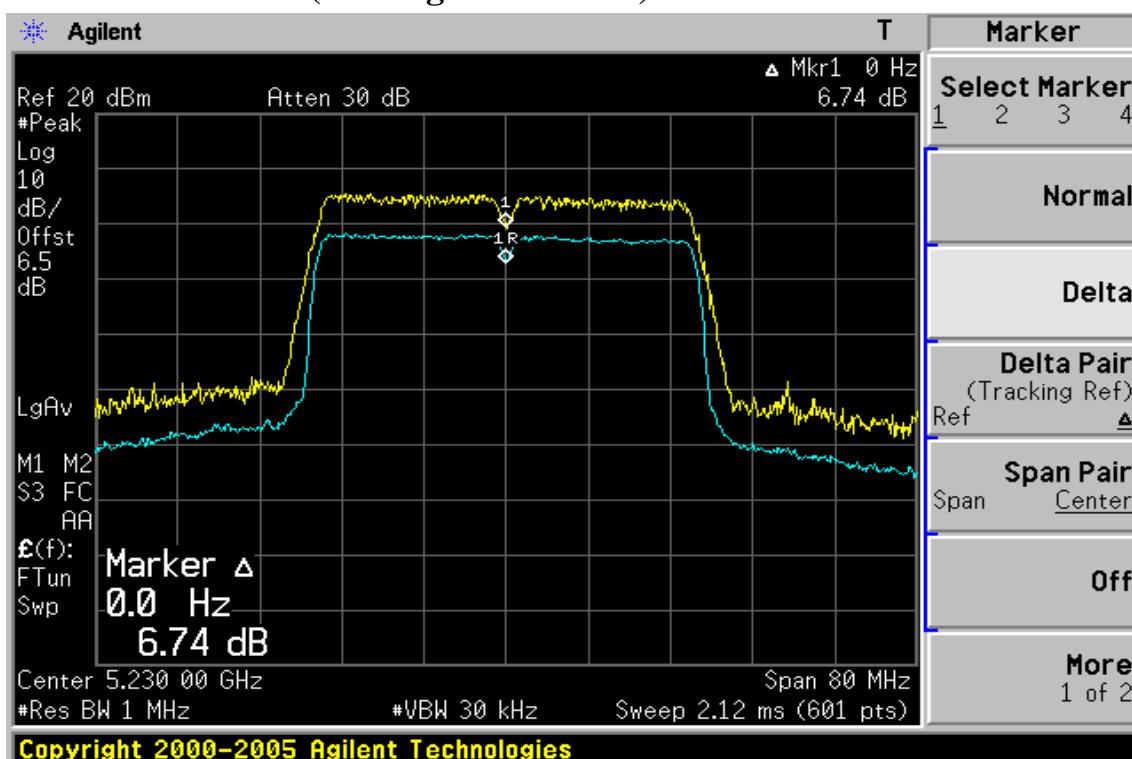
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## UNII, HT40, 5150~5250 MHz

### Peak Excursion Data Plot (CH Low 5190 MHz)



### Peak Excursion Data Plot (CH High 5230 MHz)

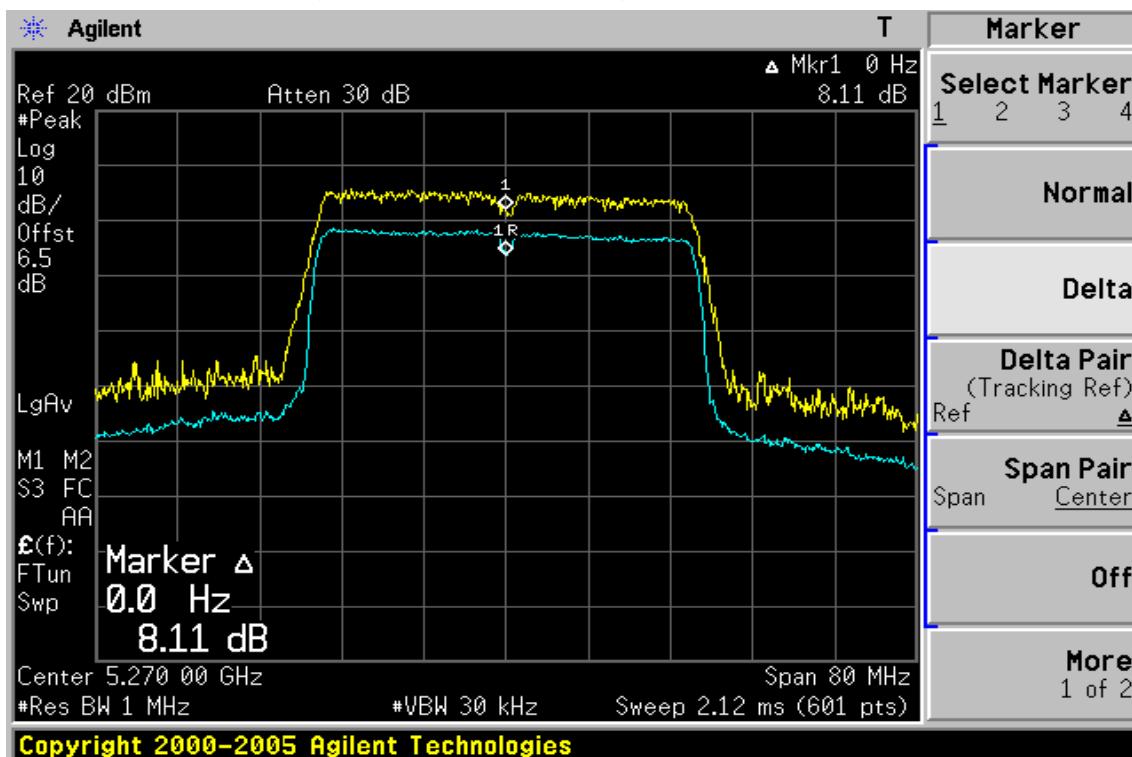


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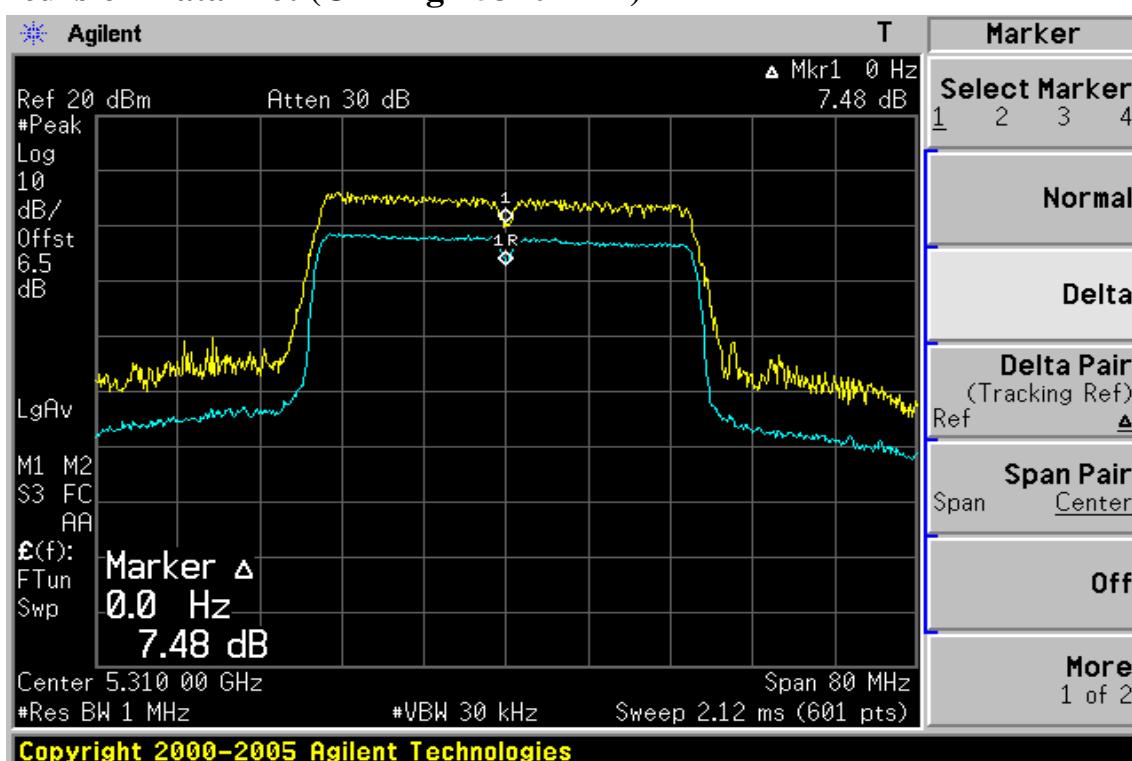
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## UNII, HT40, 5250~5350 MHz

### Peak Excursion Data Plot (CH Low 5270MHz)



### Peak Excursion Data Plot (CH High 5310MHz)



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## 10. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

### 10.1 Standard Applicable

According to §15.407(b),

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

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

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## 10.2 Measurement Procedure

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

Conducted 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.

## 10.3 Measurement Equipment Used:

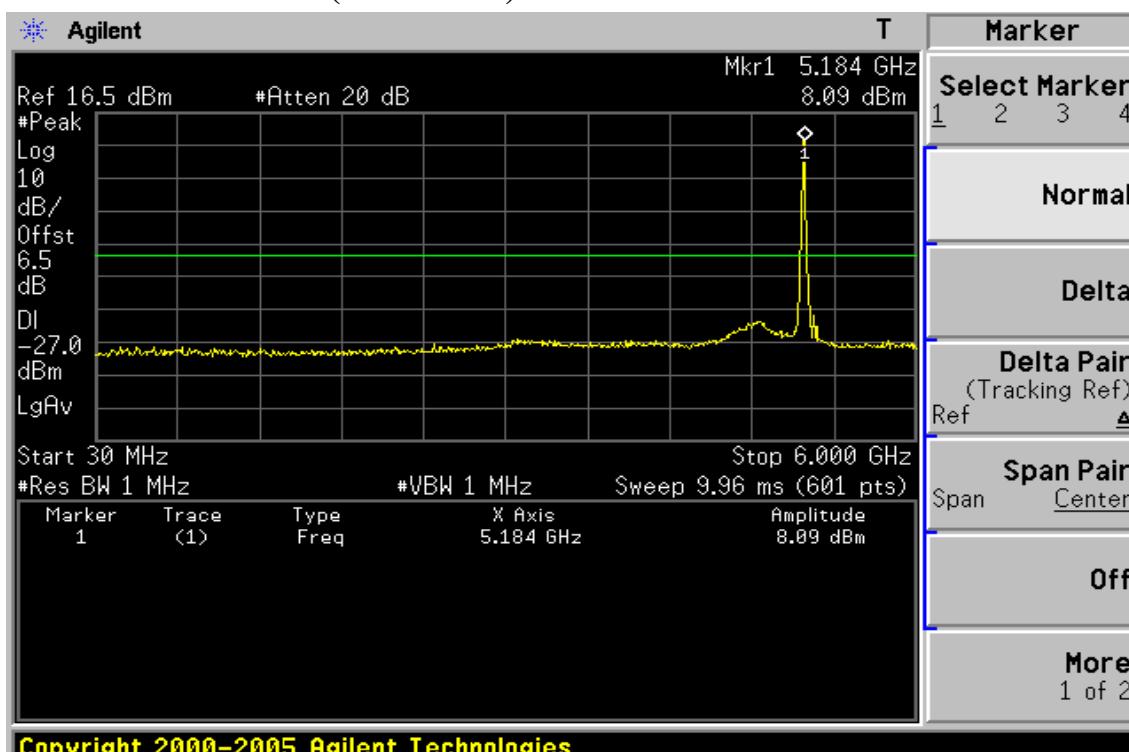
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012

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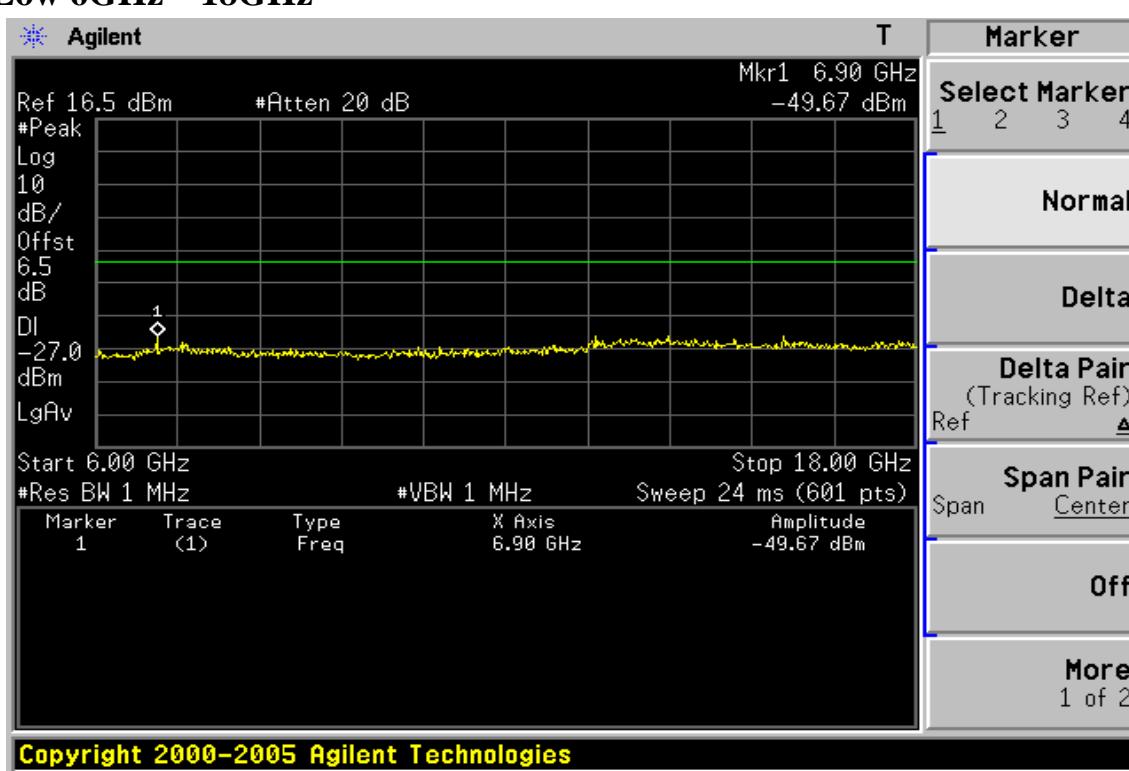
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## UNII, 5150~5250 MHz

### Ch Low 30MHz – 6GHz (5180 MHz)



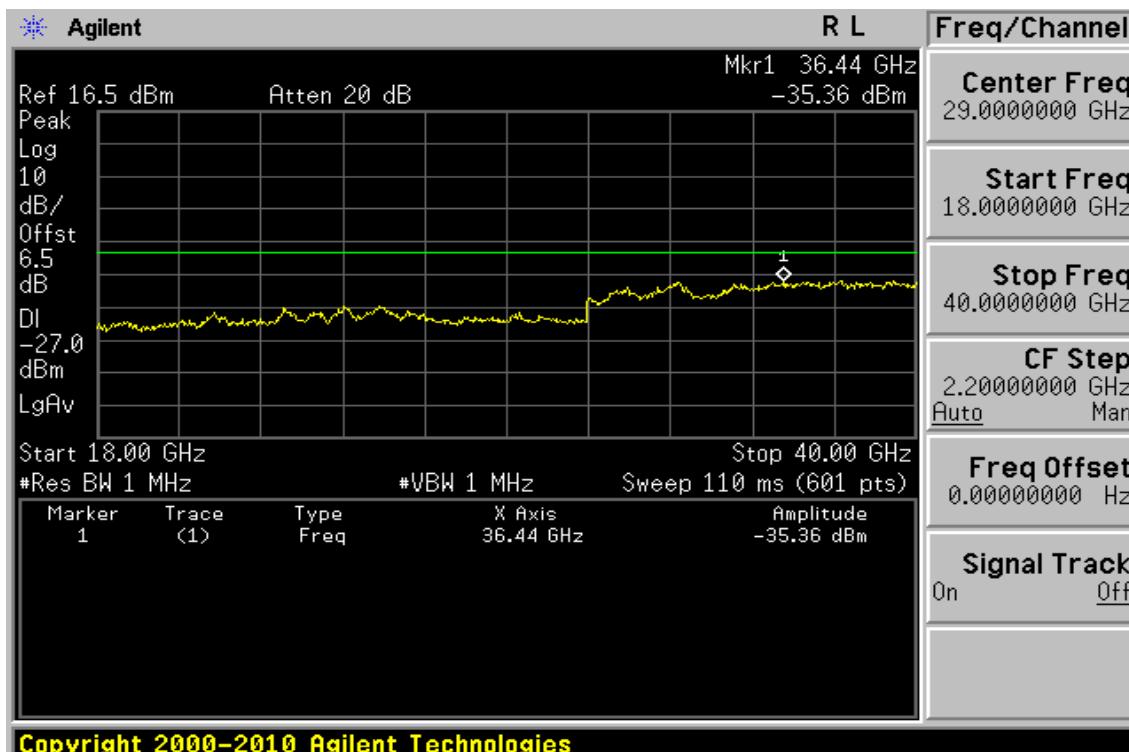
### Ch Low 6GHz – 18GHz



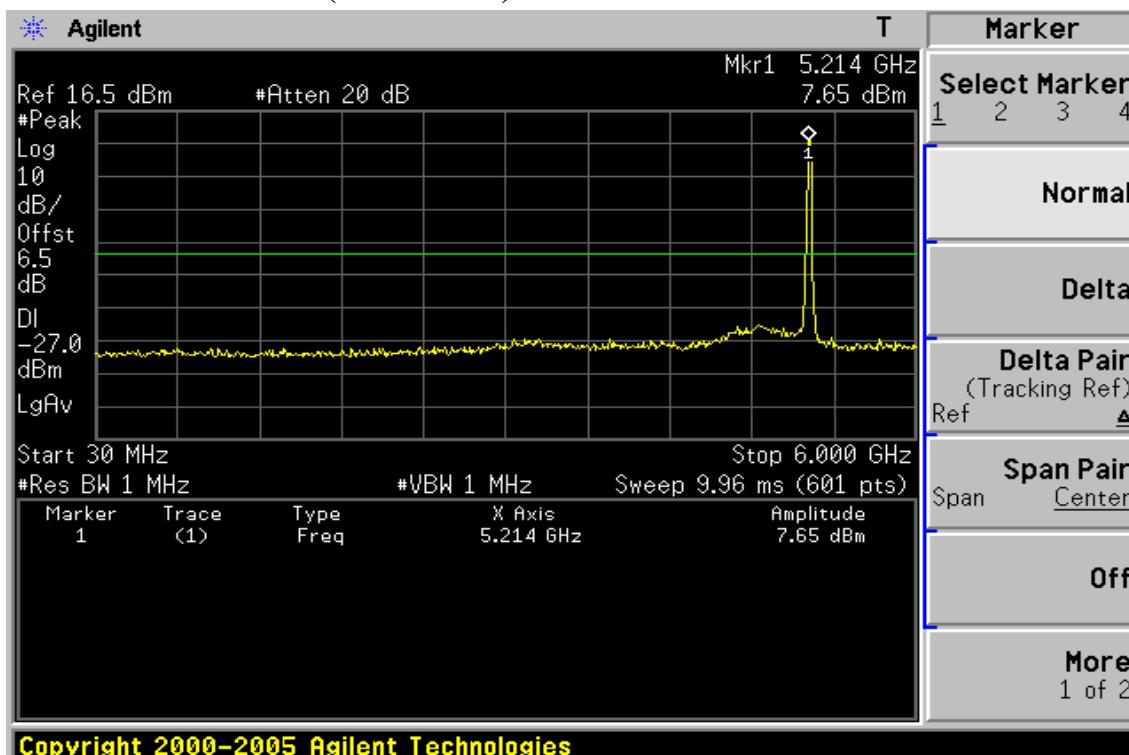
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## Ch Low 18GHz – 40GHz



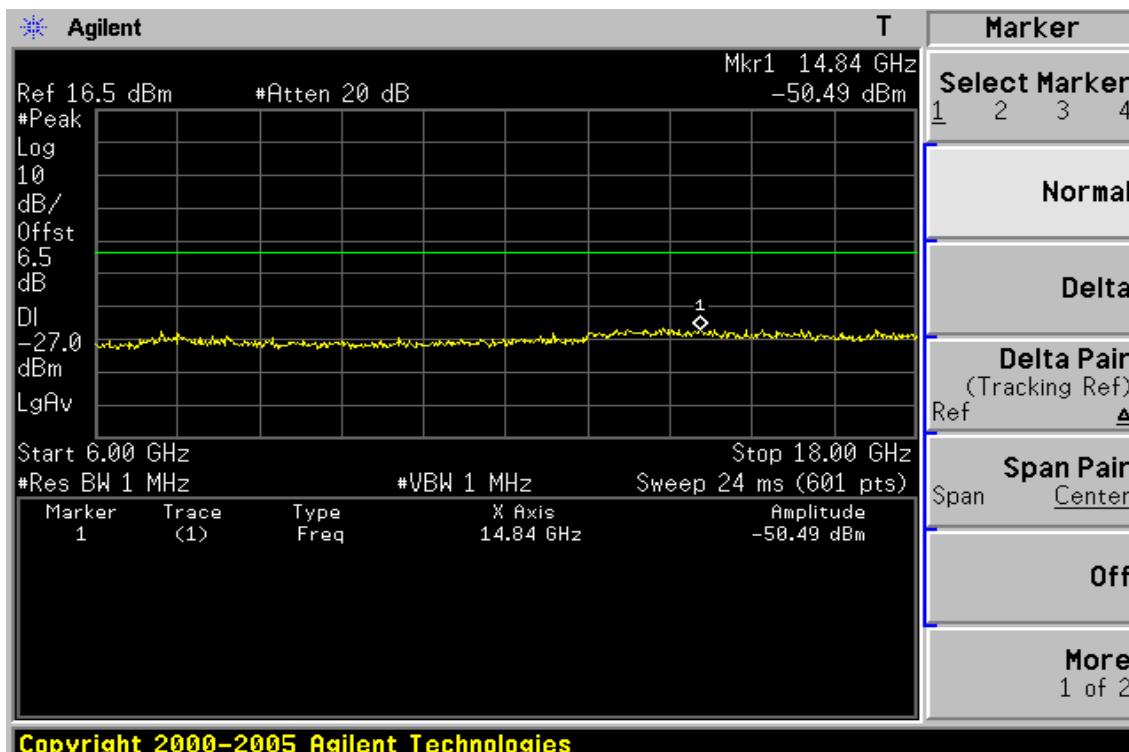
## Ch Mid 30MHz – 6GHz (5220 MHz)



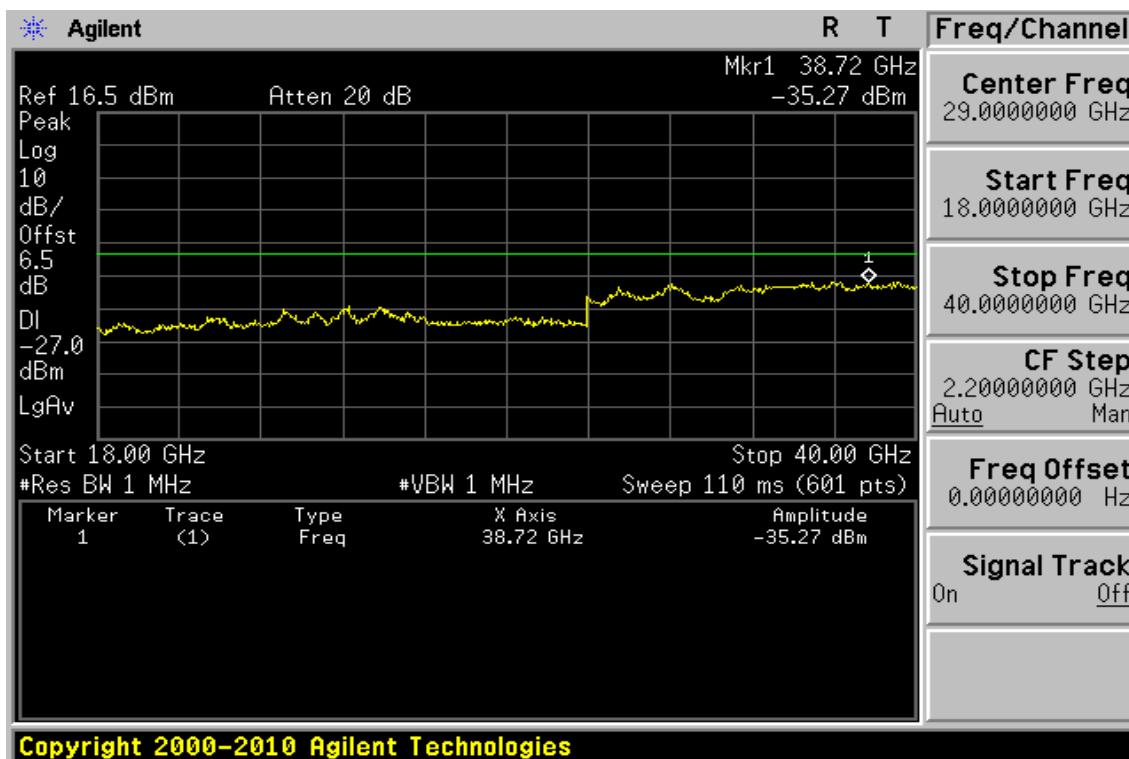
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## Ch Mid 6GHz – 18GHz



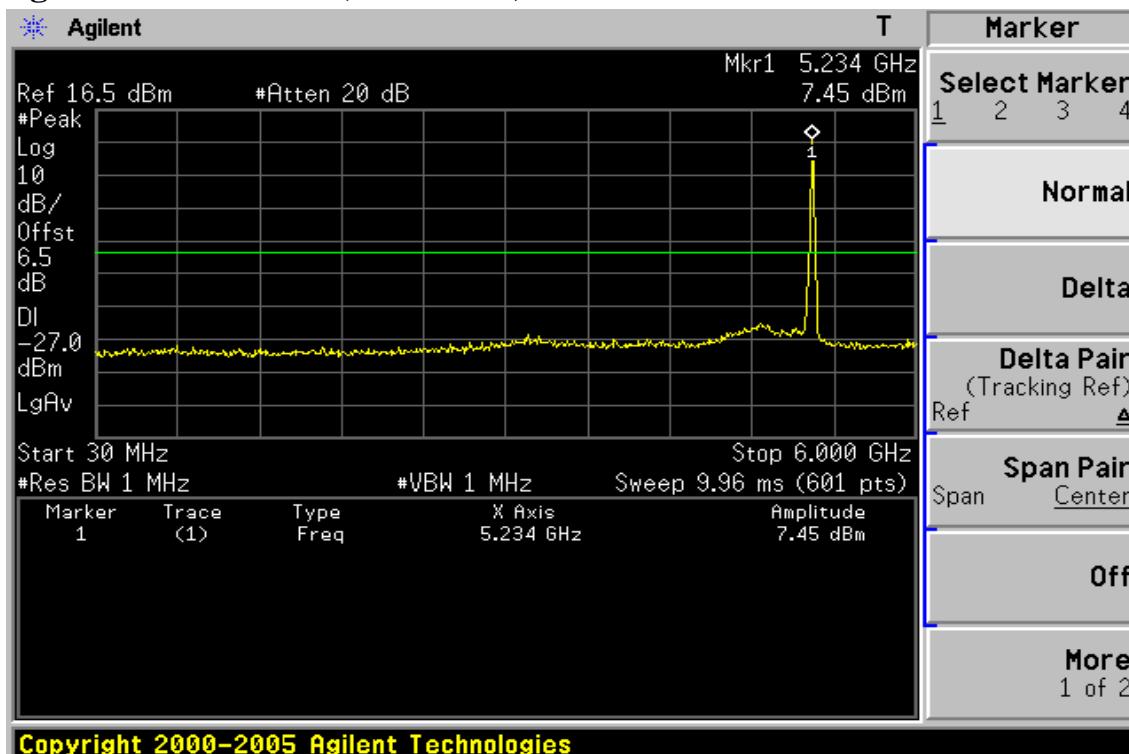
## Ch Mid 18GHz – 40GHz



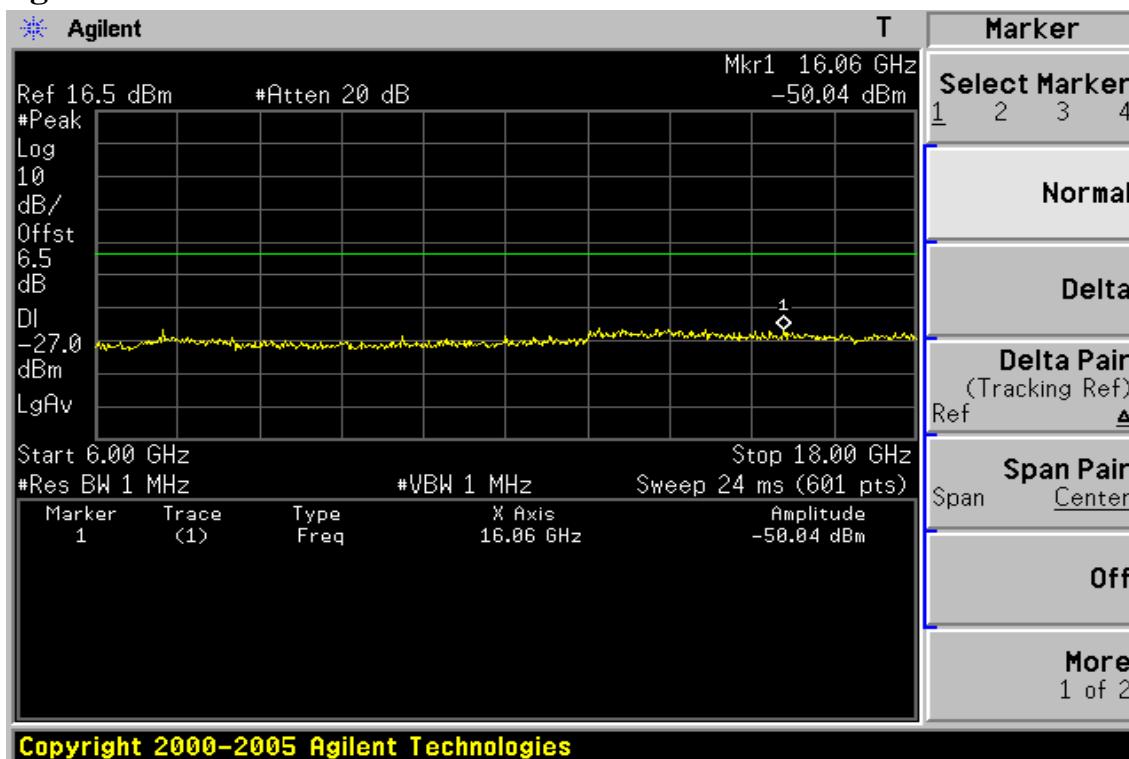
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## Ch High 30MHz – 6GHz (5240 MHz)

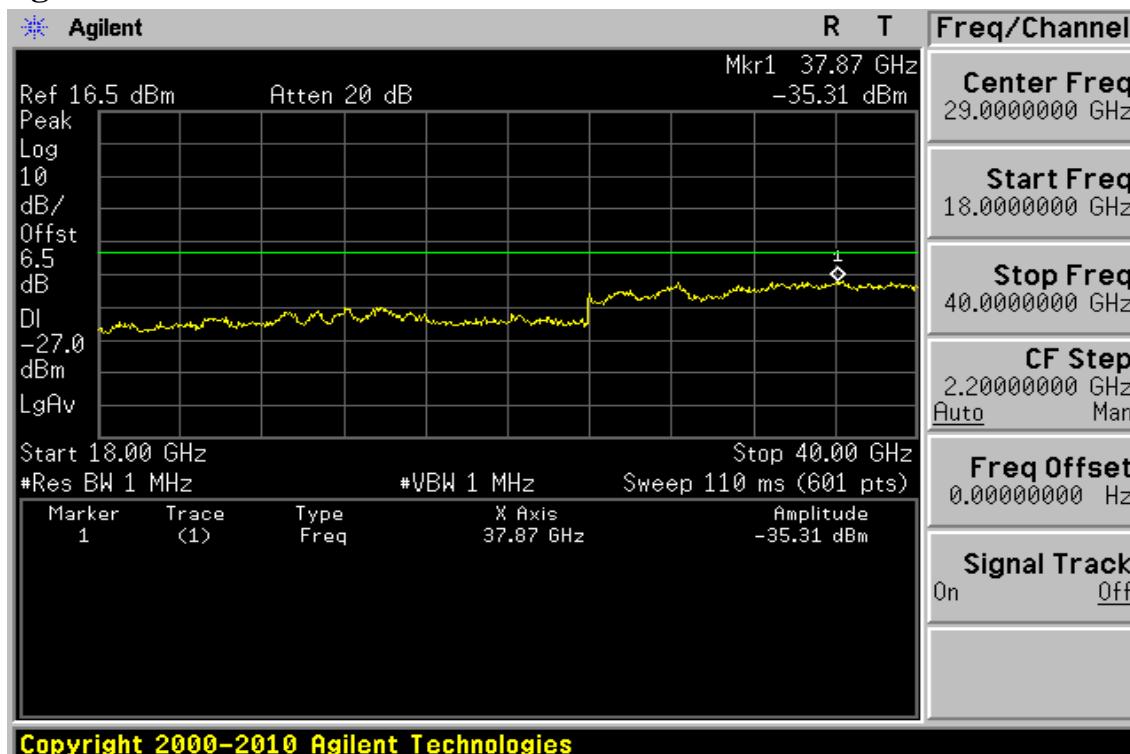


## Ch High 6GHz – 18GHz



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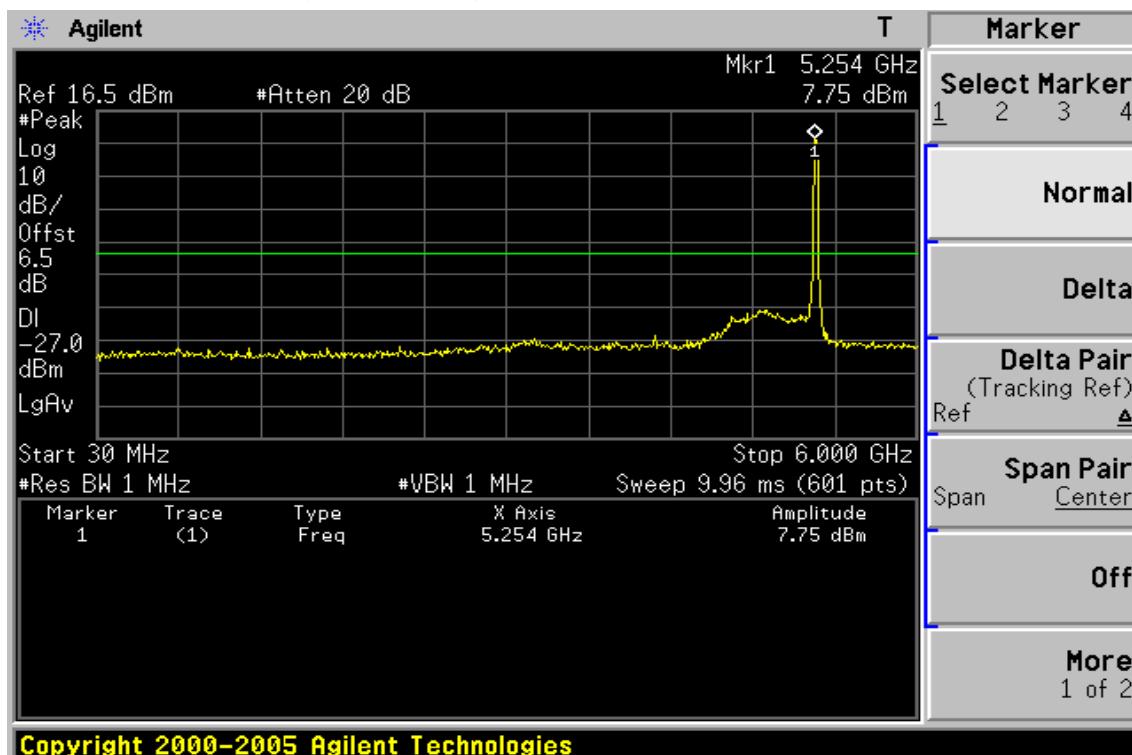
**Ch High 18GHz – 40GHz**

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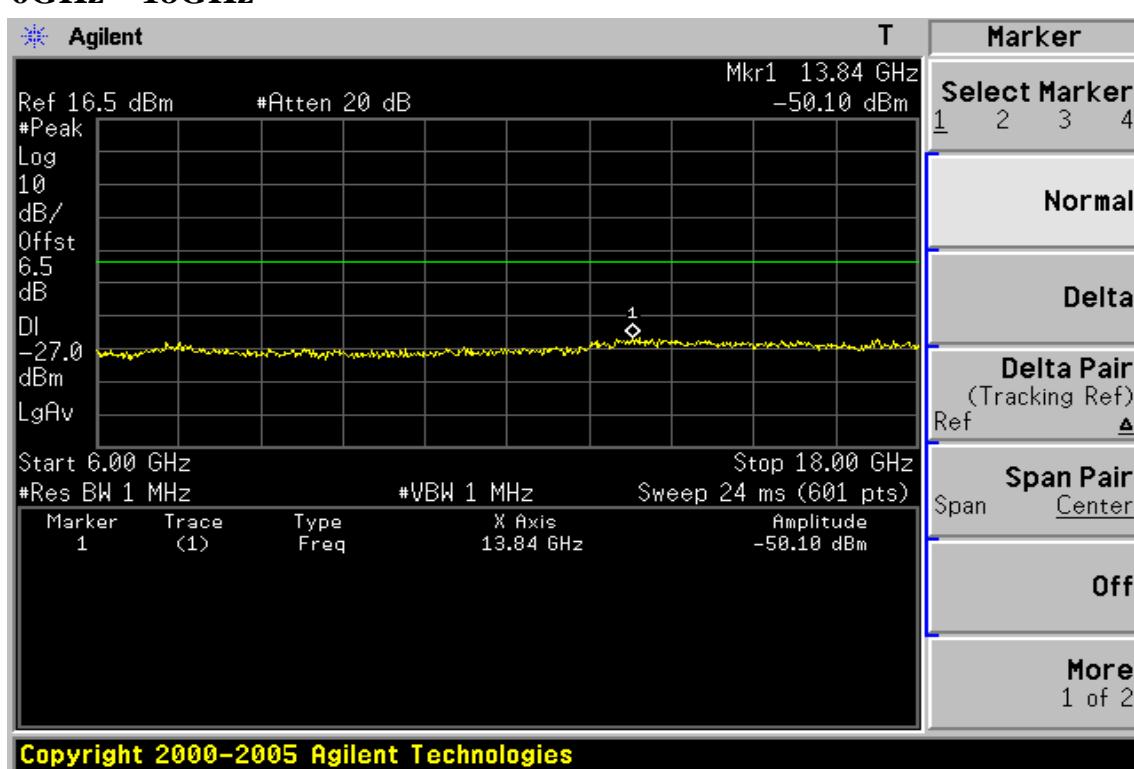
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## UNII, 5250~5350 MHz

### Ch Low 30MHz – 6GHz (5260 MHz)



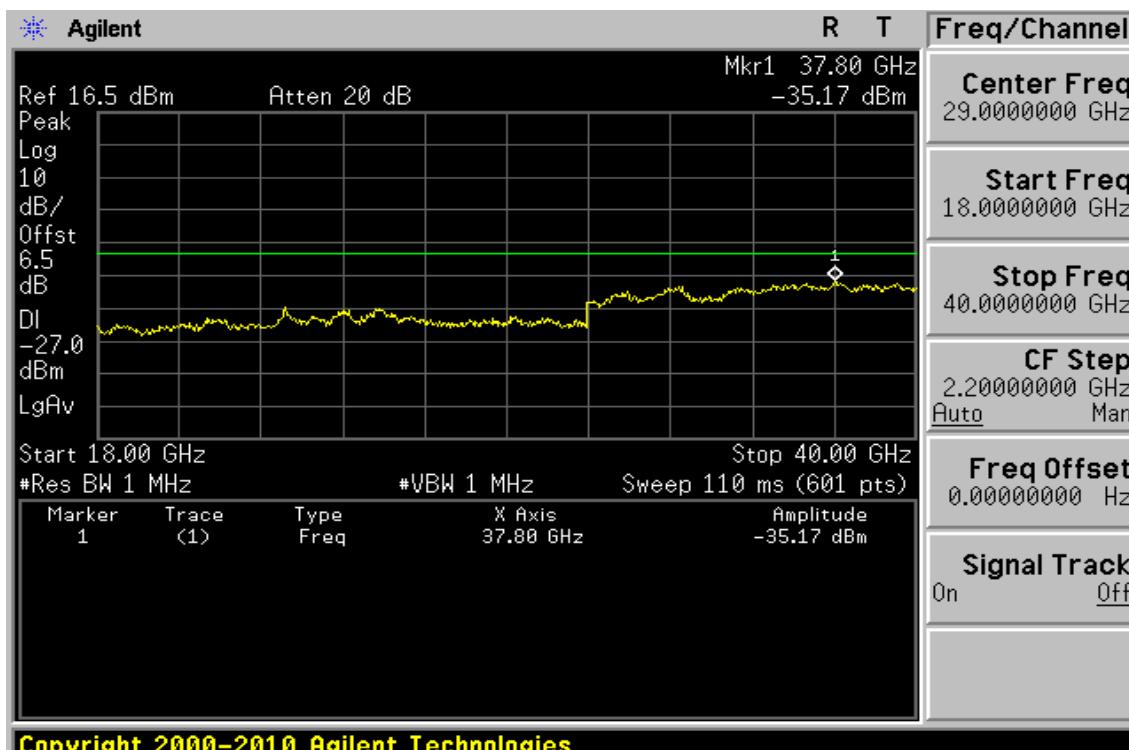
### Ch Low 6GHz – 18GHz



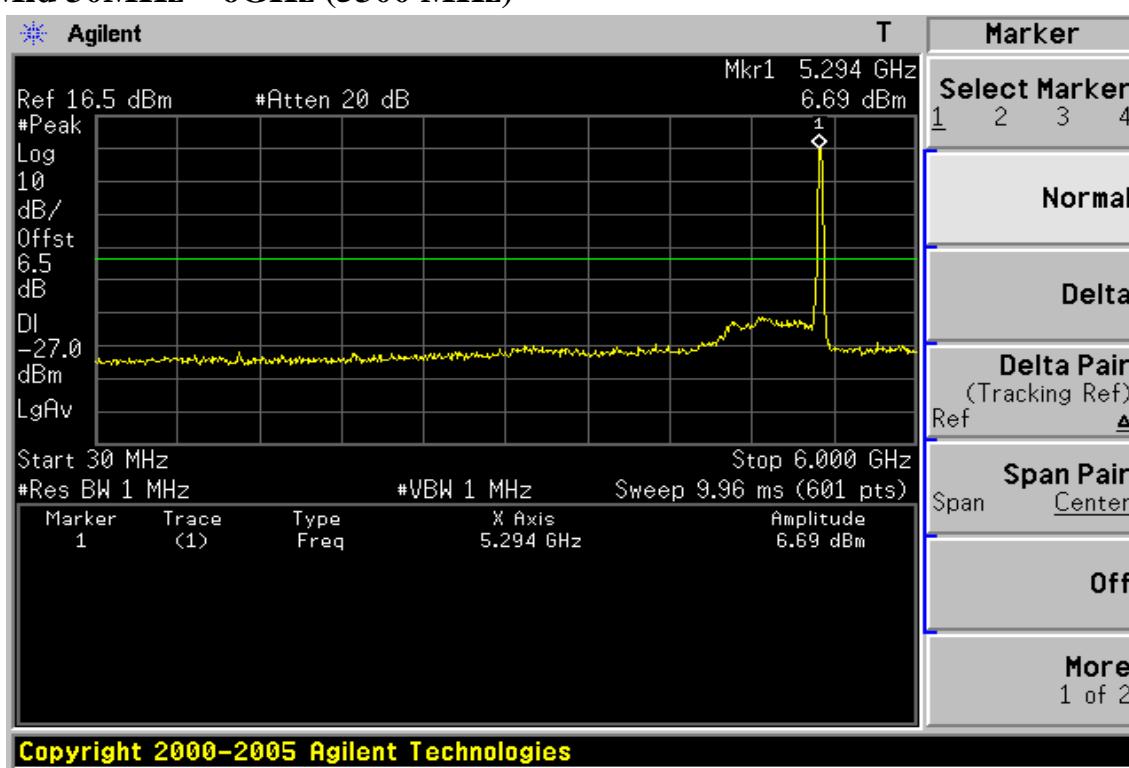
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## Ch Low 18GHz – 40GHz



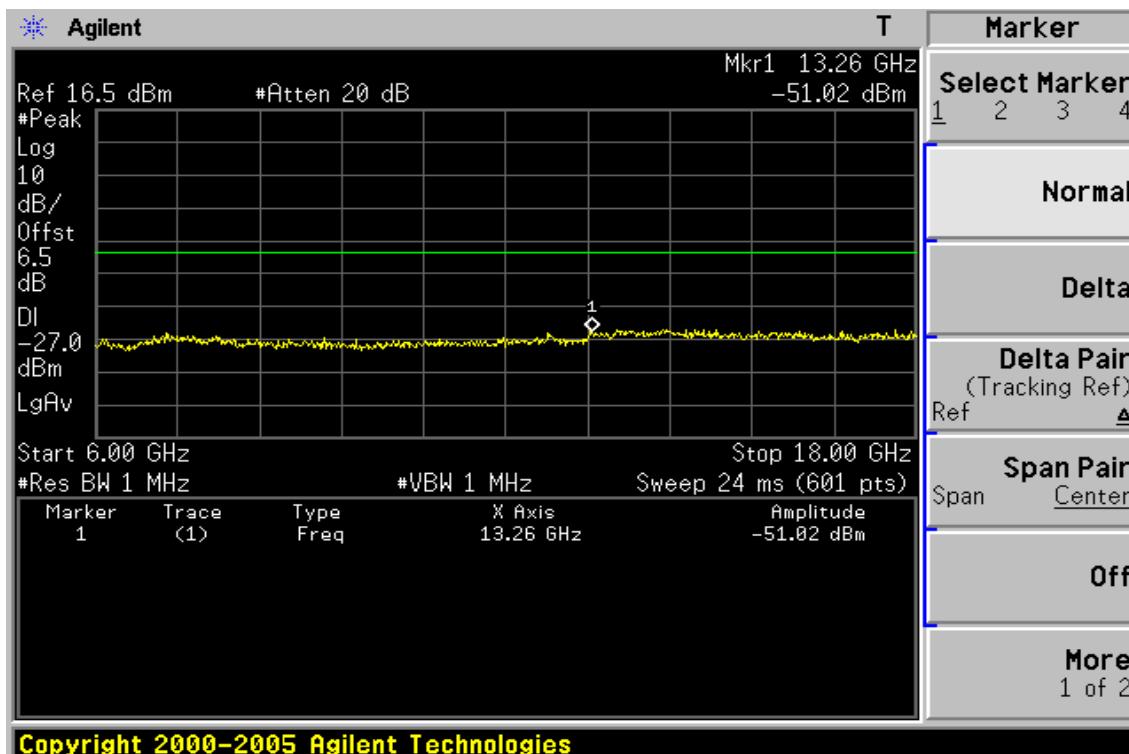
## Ch Mid 30MHz – 6GHz (5300 MHz)



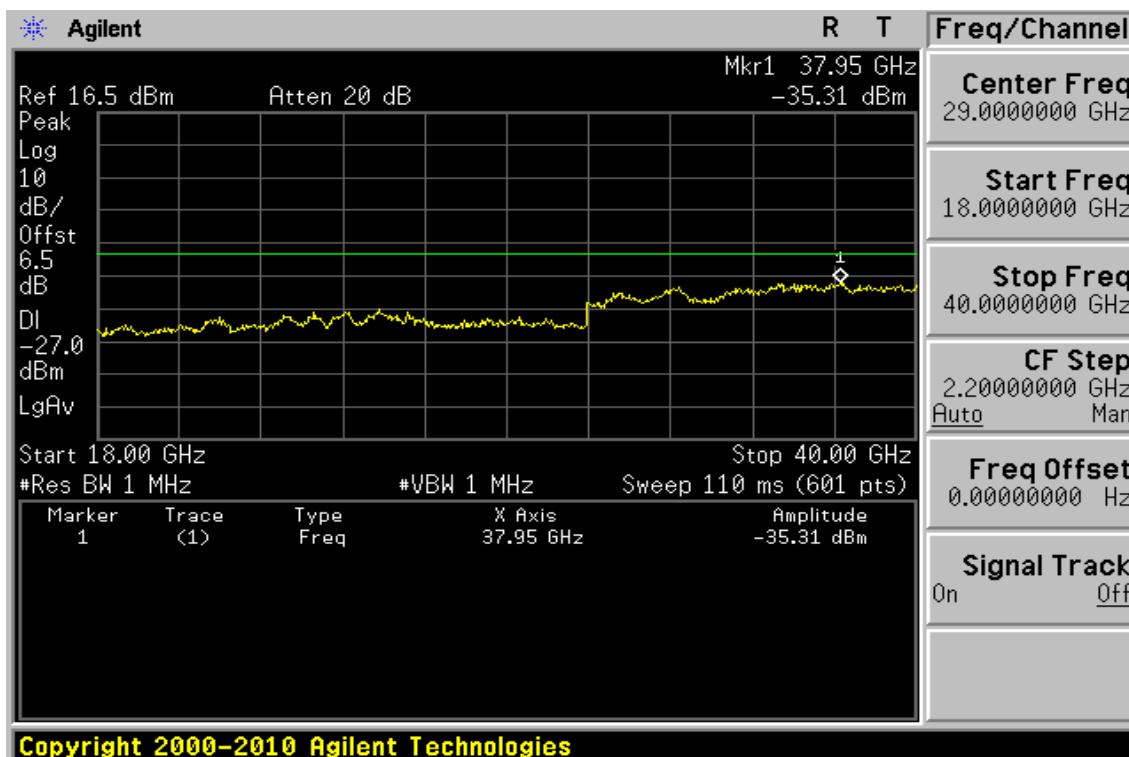
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## Ch Mid 6GHz – 18GHz



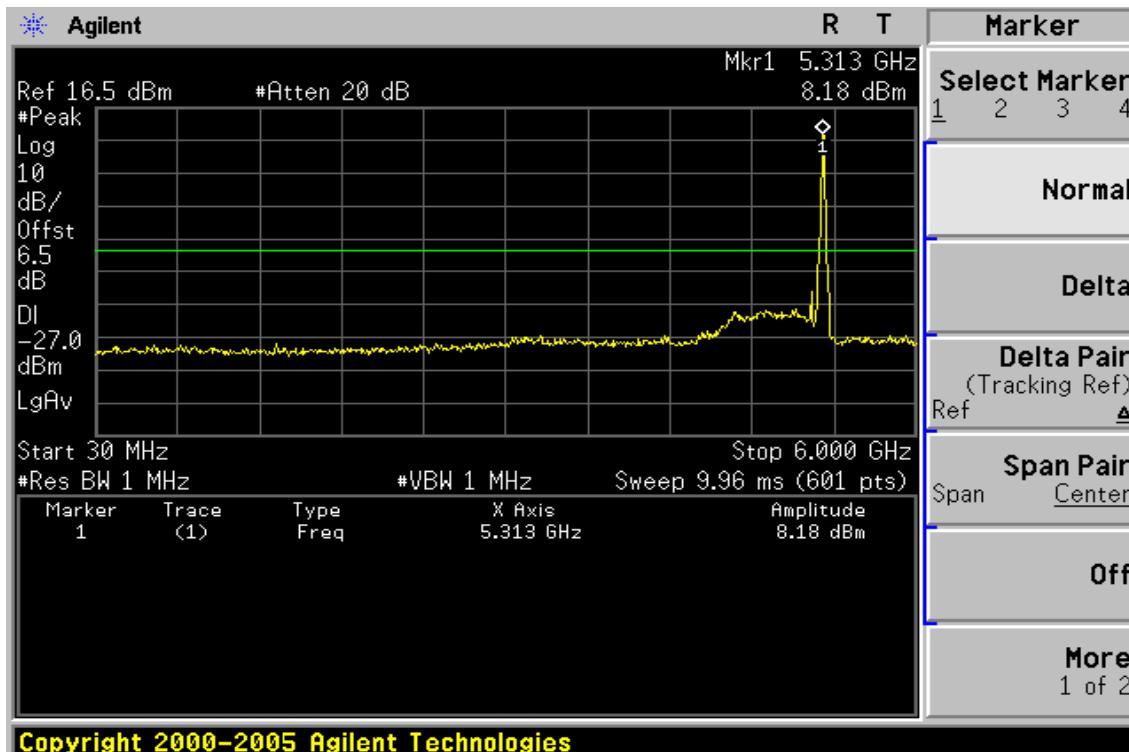
## Ch Mid 18GHz – 40GHz



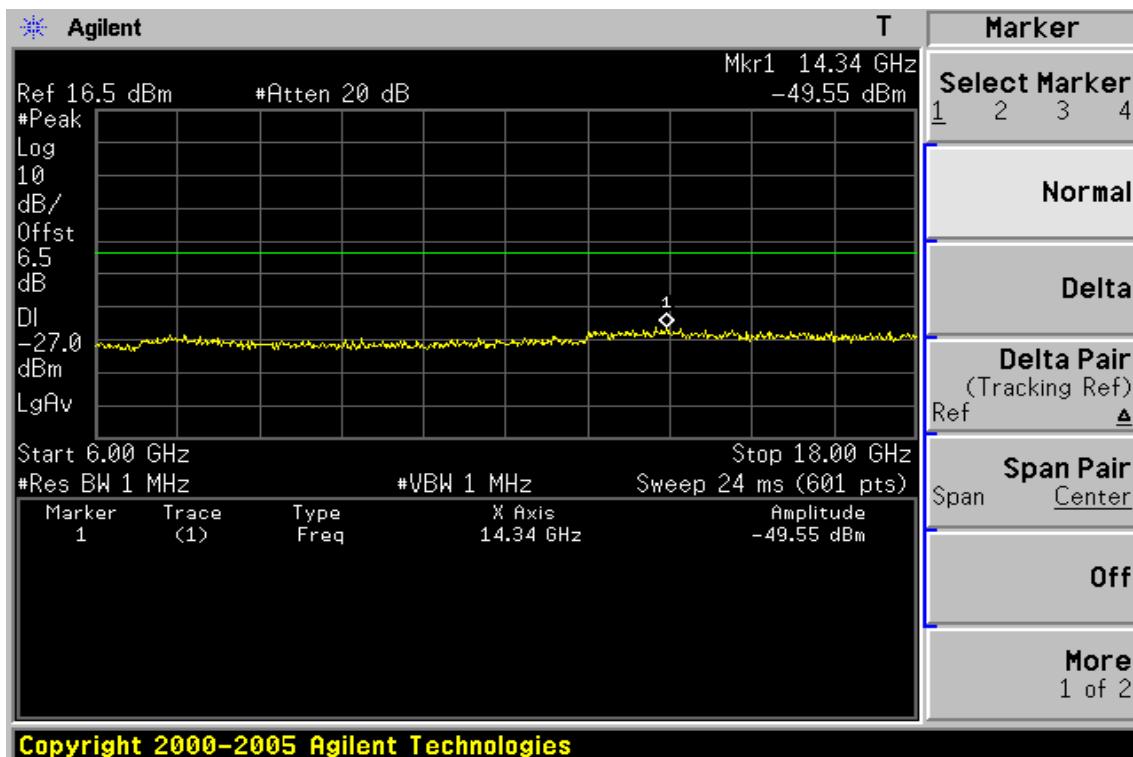
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## Ch High 30MHz – 6GHz (5320 MHz)



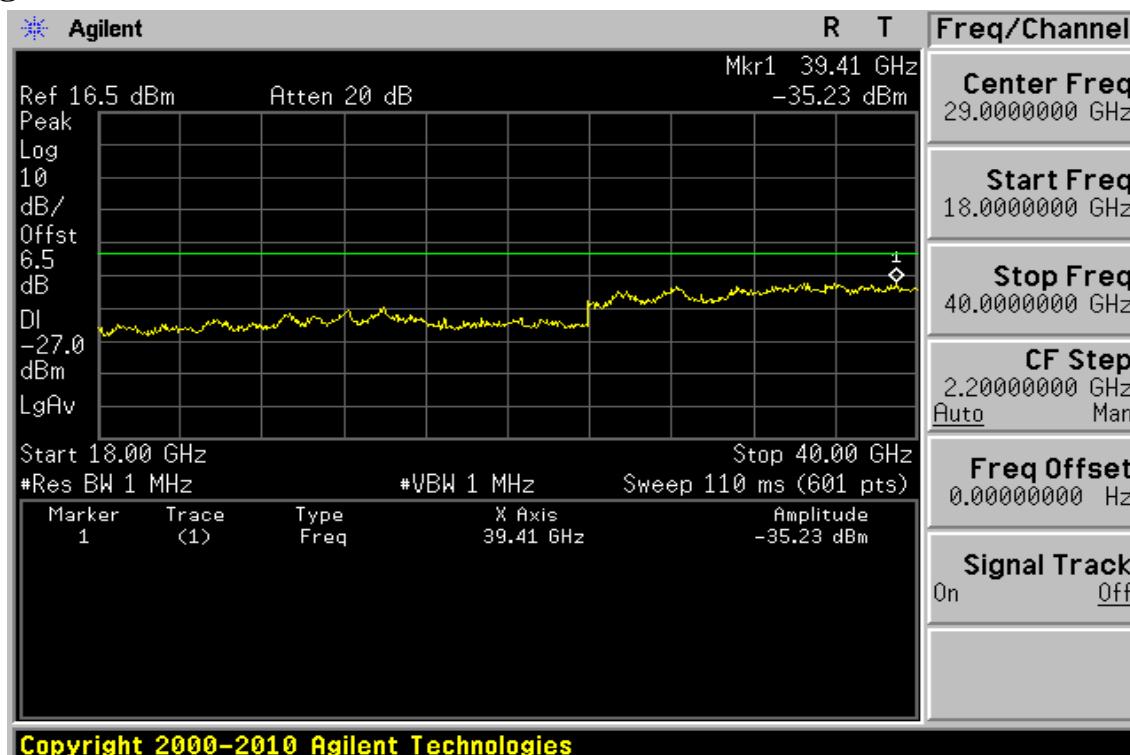
## Ch High 6GHz – 18GHz



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## Ch High 18GHz – 40GHz

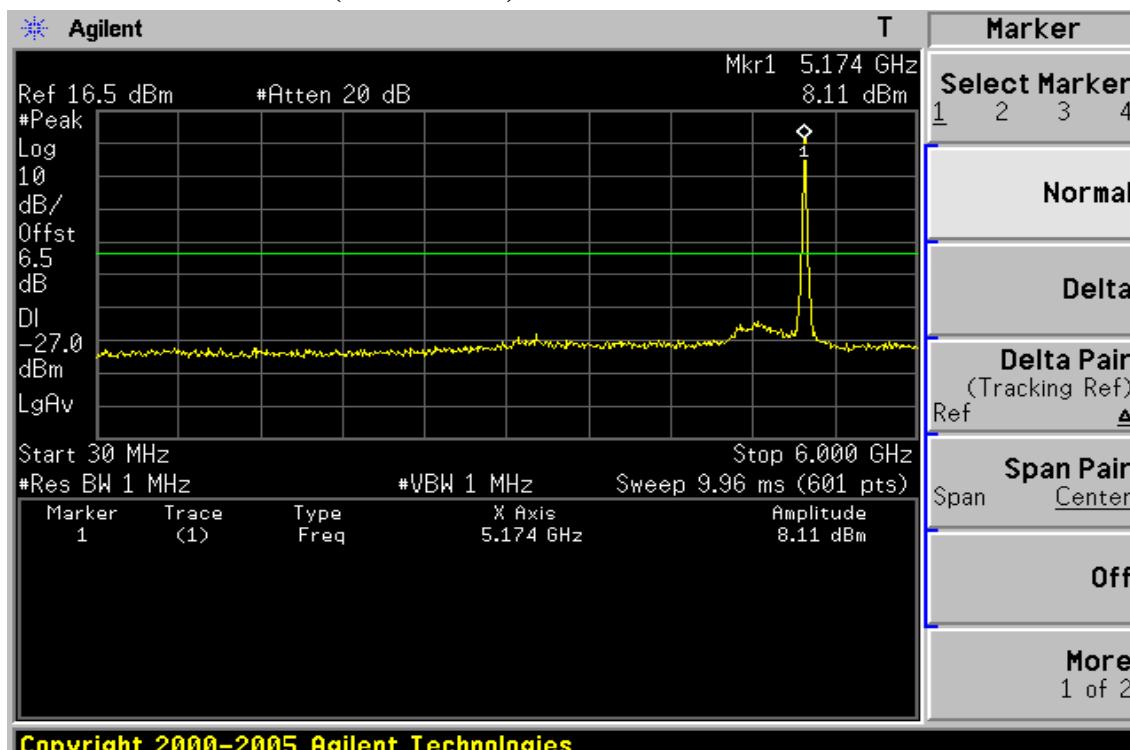


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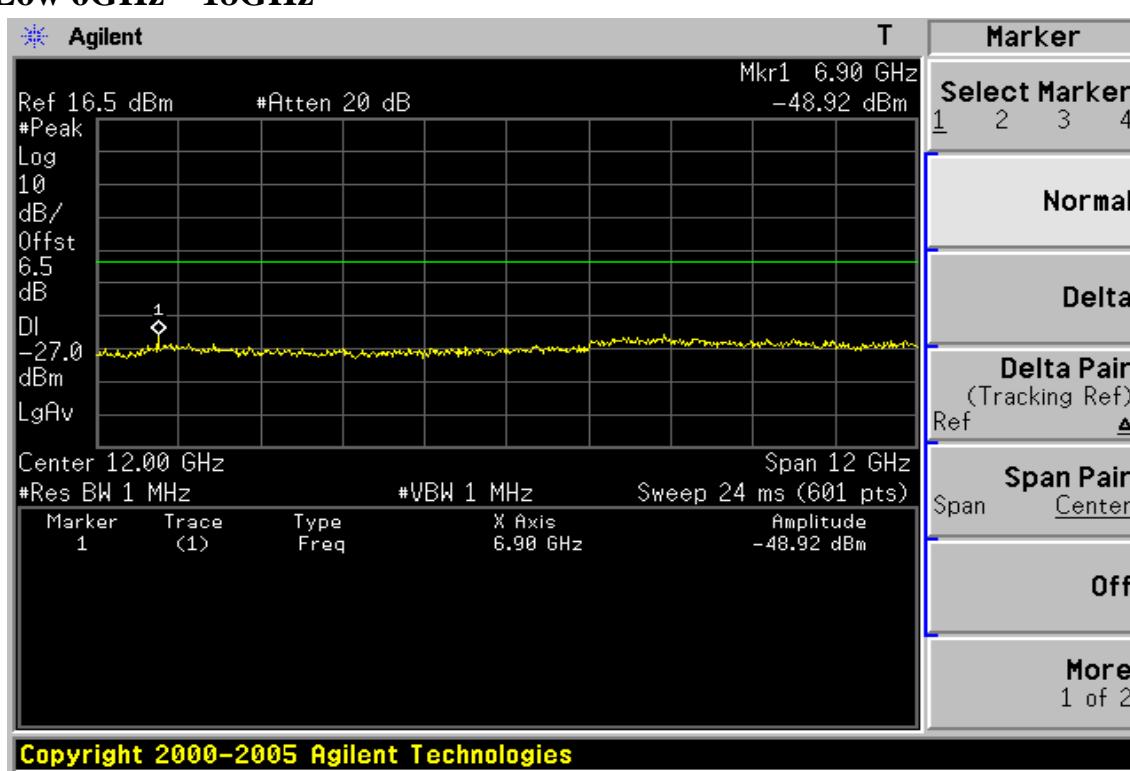
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## UNII HT20, 5150~5250 MHz

### Ch Low 30MHz – 6GHz (5180 MHz)



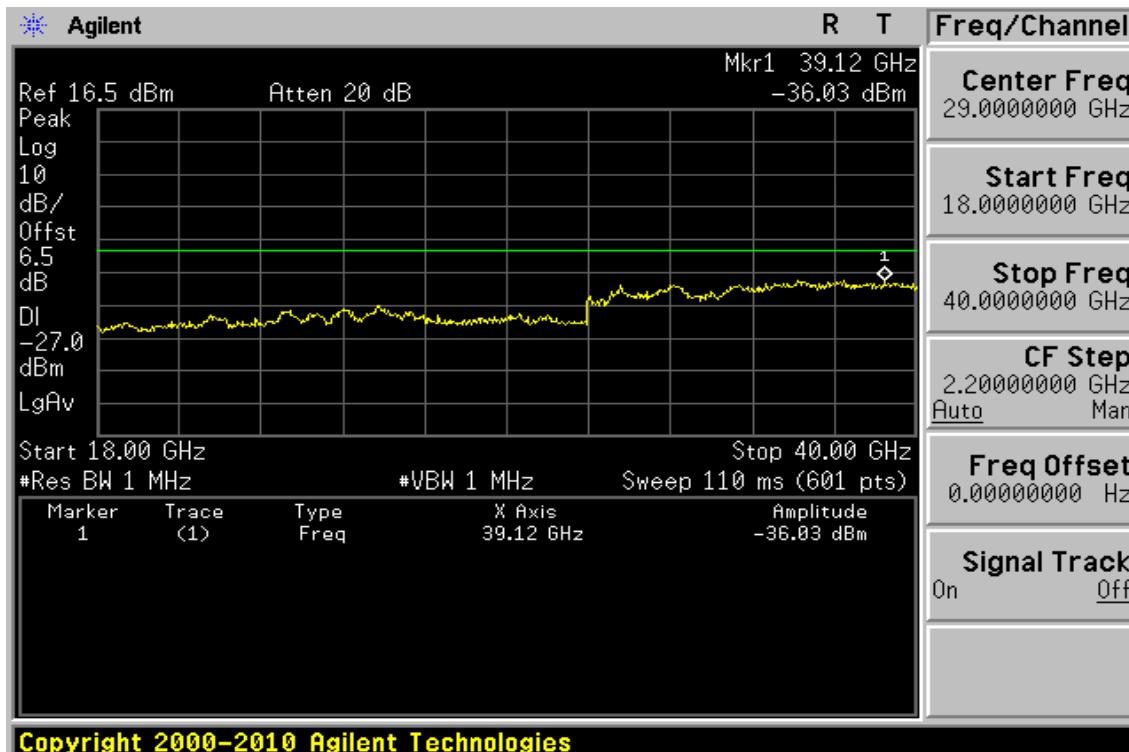
### Ch Low 6GHz – 18GHz



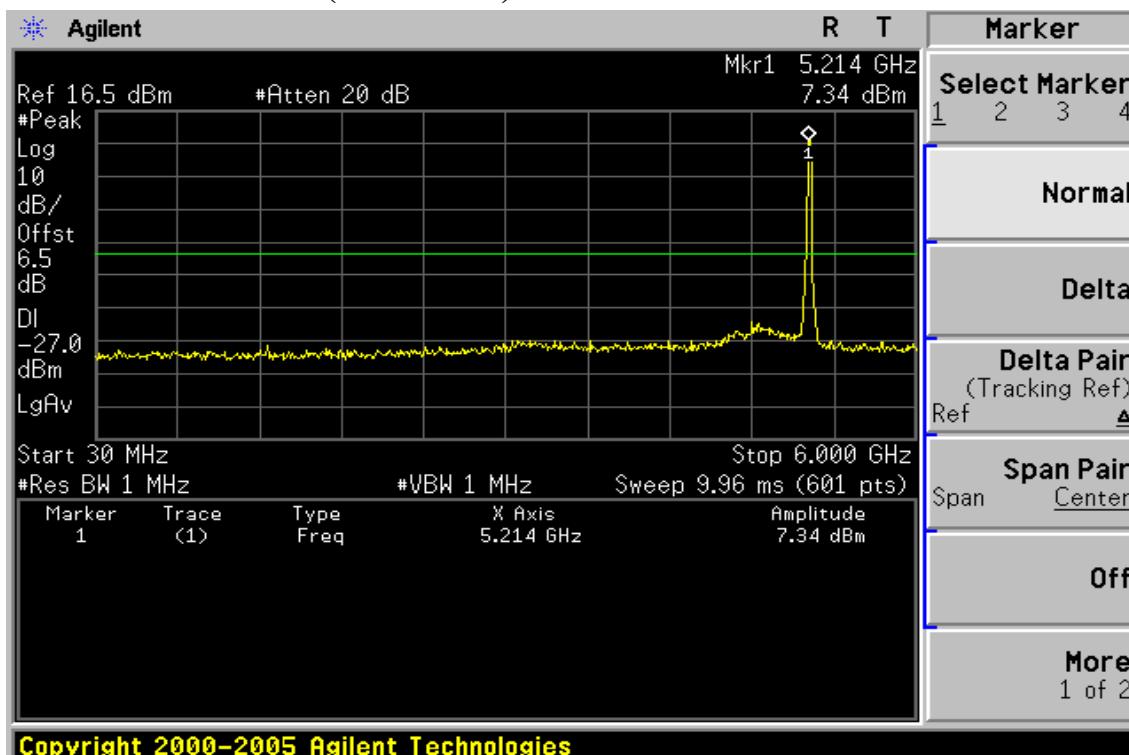
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## Ch Low 18GHz – 40GHz



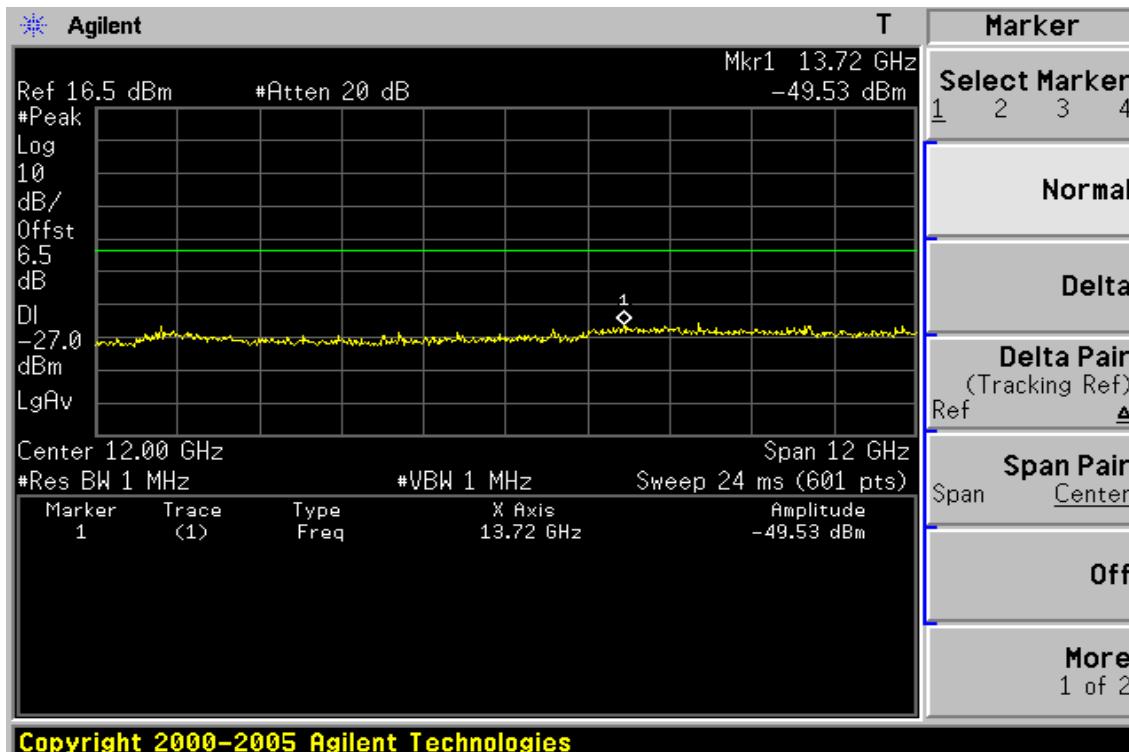
## Ch Mid 30MHz – 6GHz (5220 MHz)



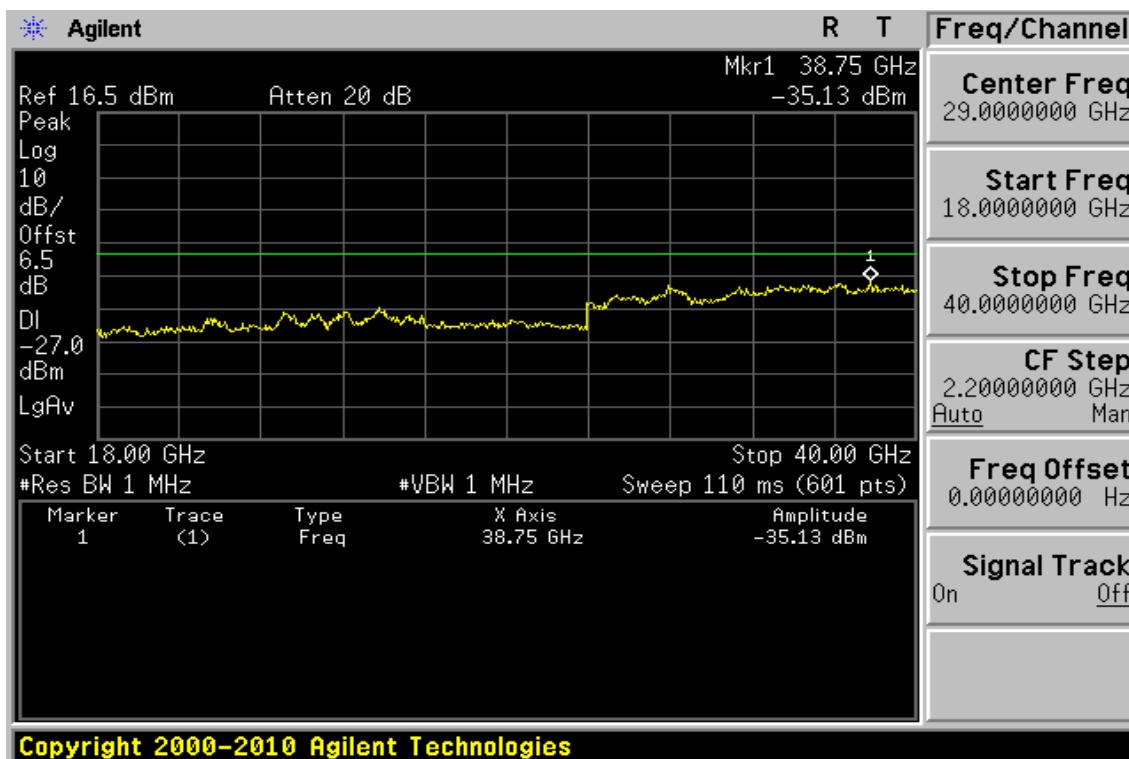
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## Ch Mid 6GHz – 18GHz



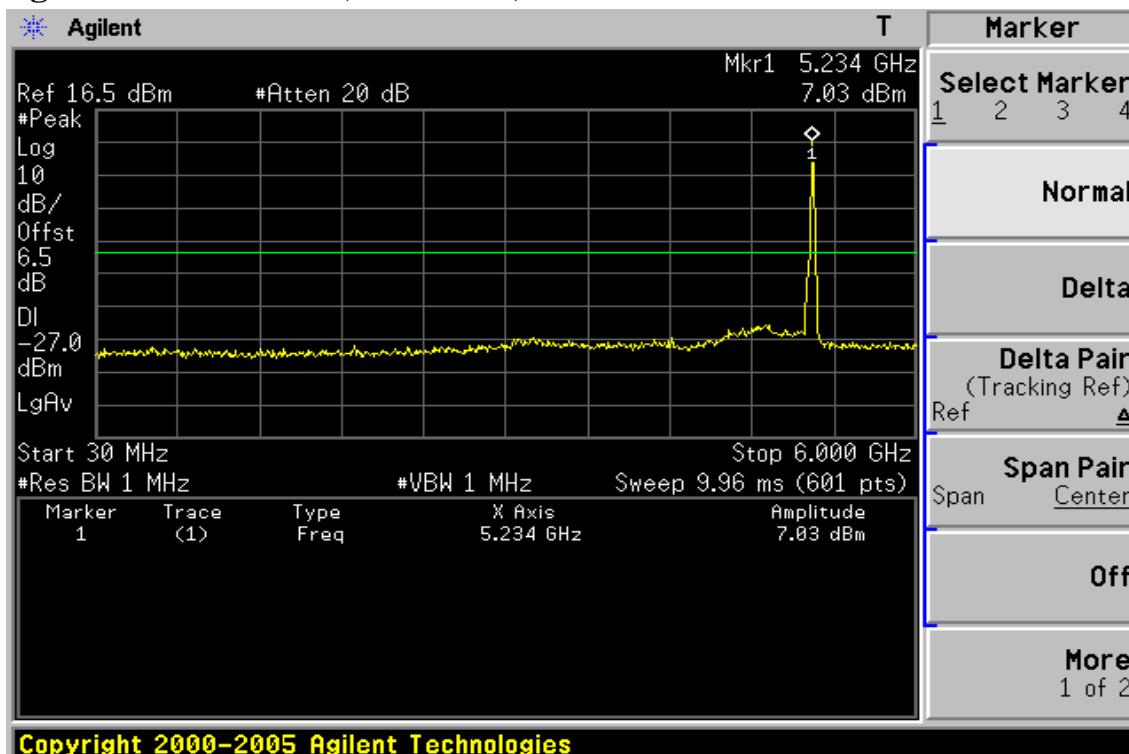
## Ch Mid 18GHz – 40GHz



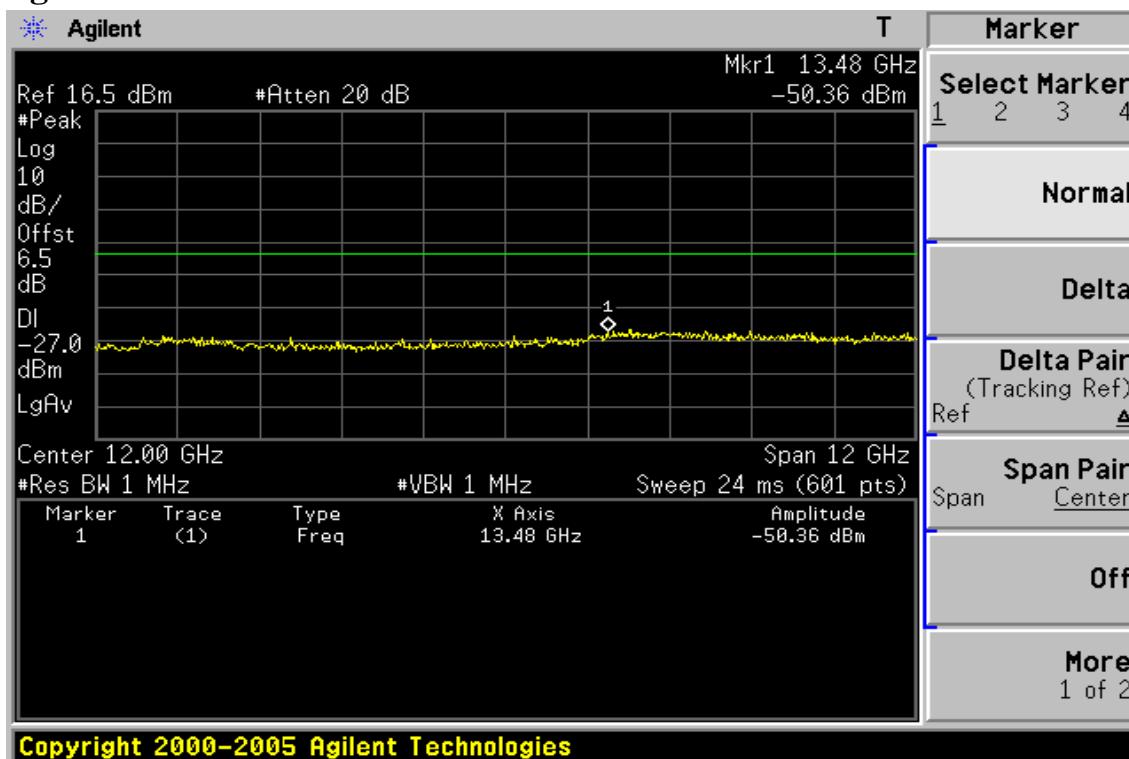
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## Ch High 30MHz – 6GHz (5240 MHz)



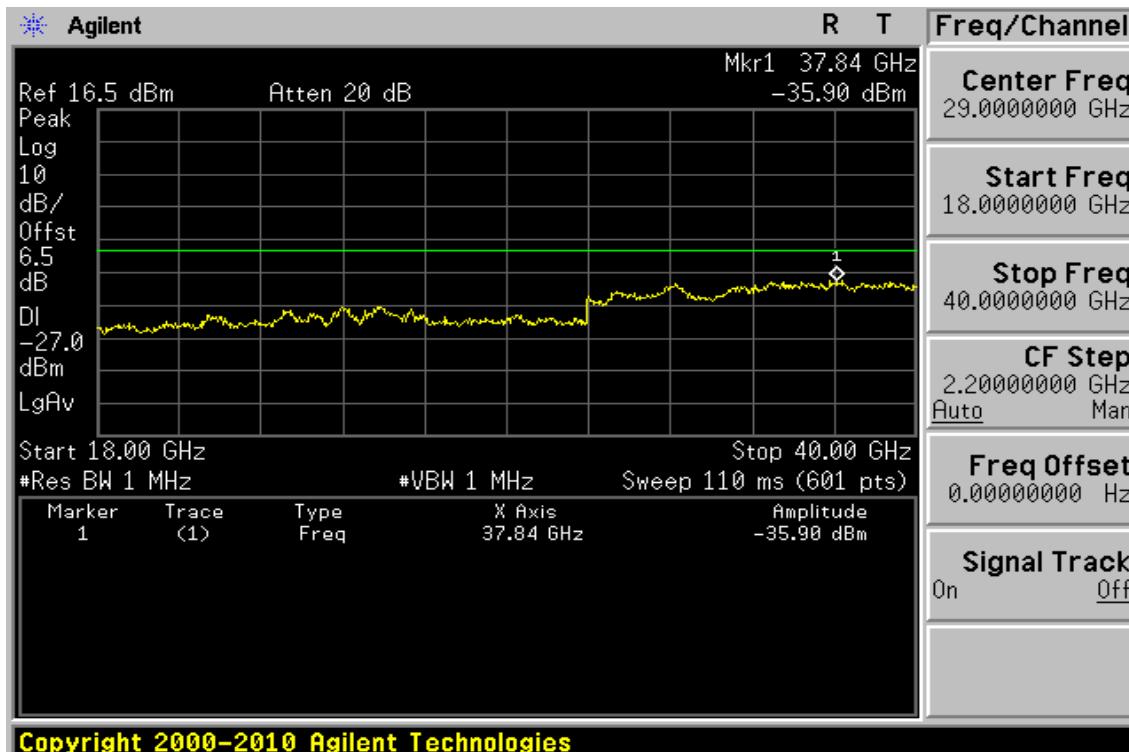
## Ch High 6GHz – 18GHz



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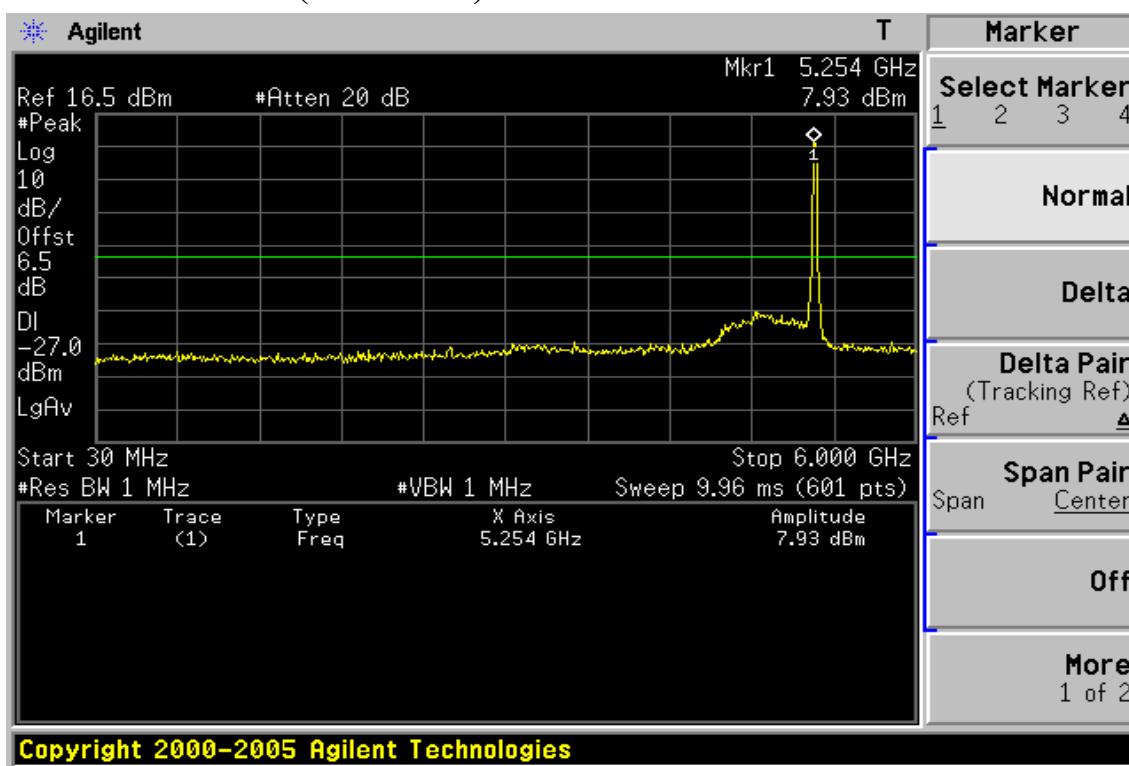
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## Ch High 18GHz – 40GHz



## UNII HT20, 5250~5350 MHz

## Ch Low 30MHz – 6GHz (5260 MHz)

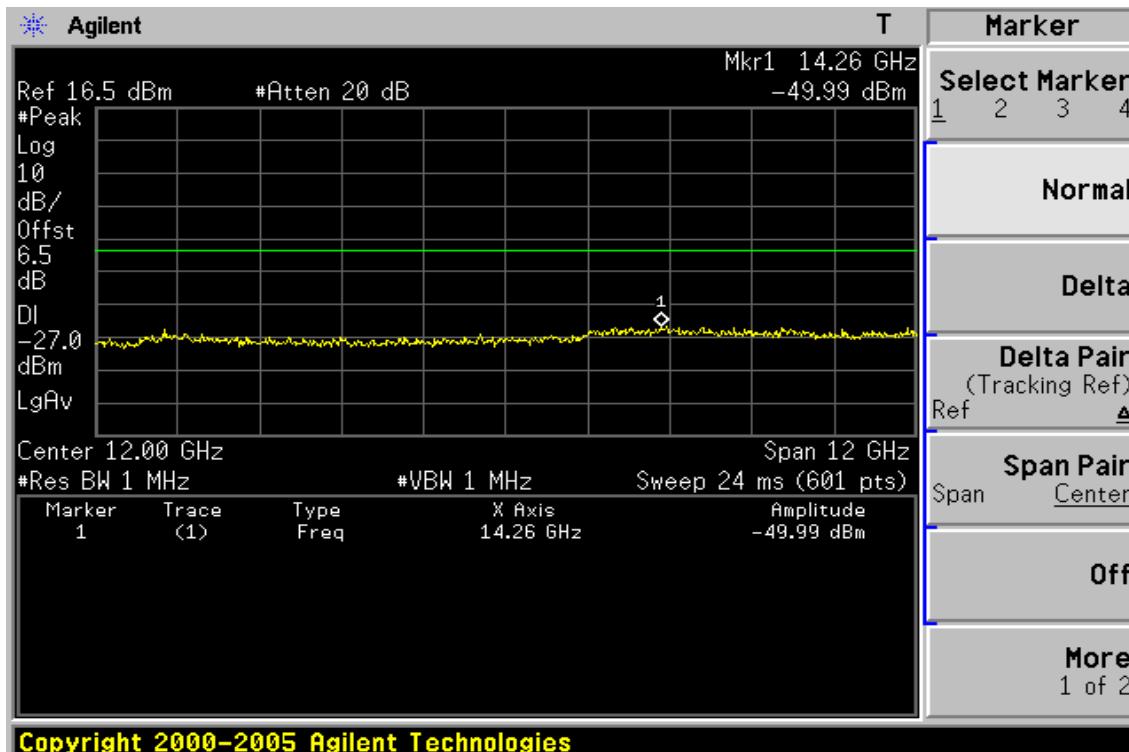


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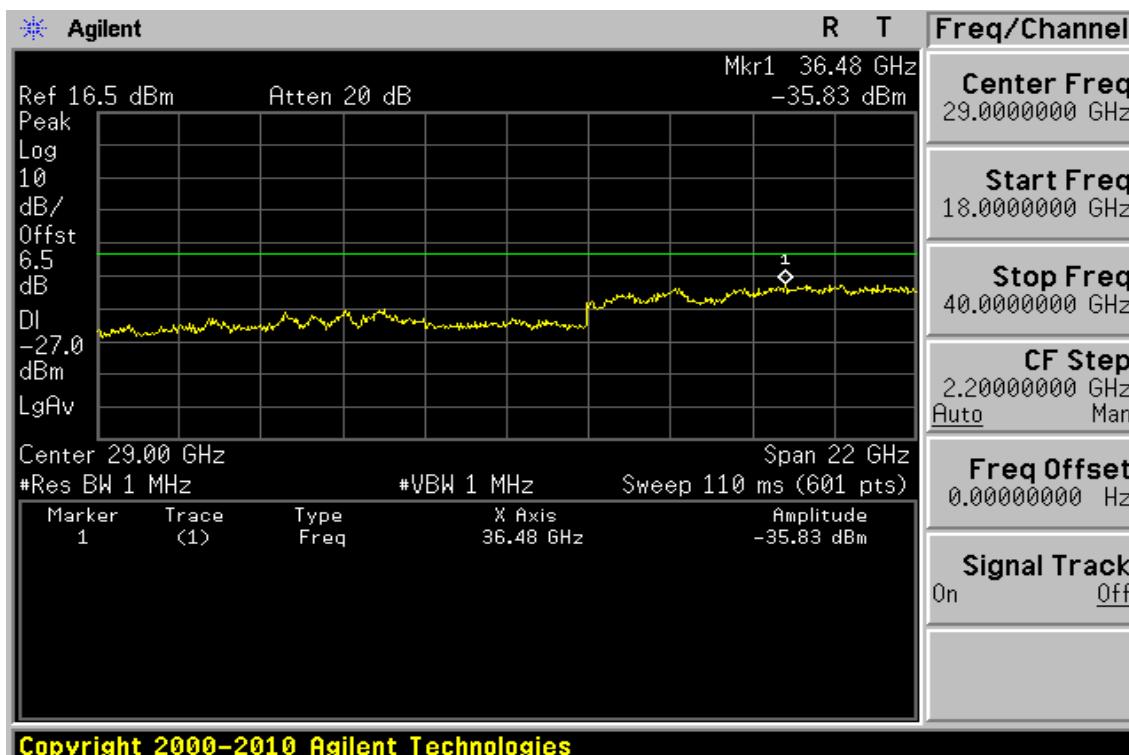
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## Ch Low 6GHz – 18GHz



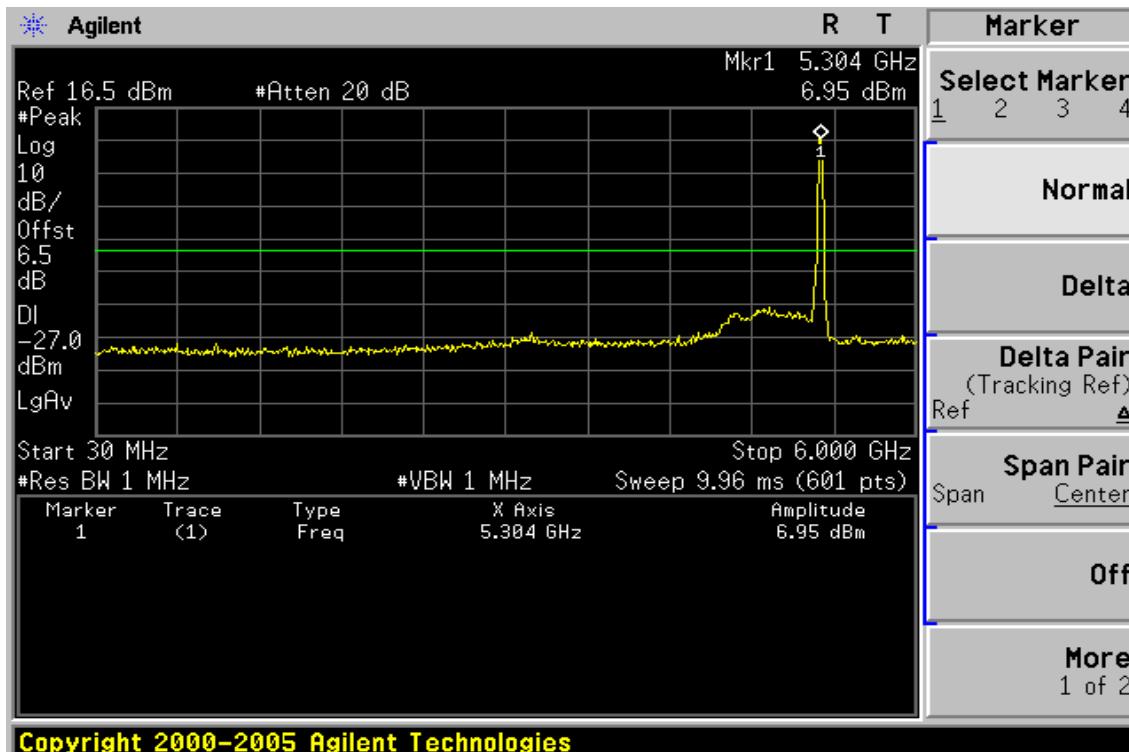
## Ch Low 18GHz – 40GHz



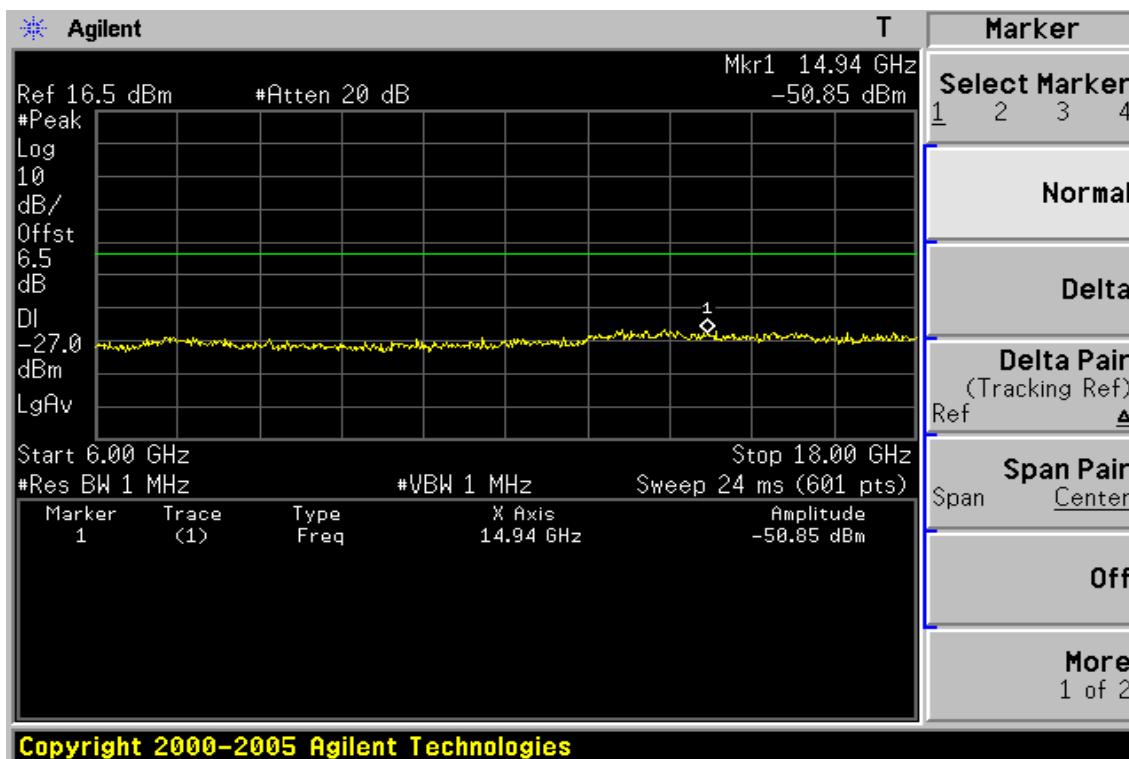
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## Ch Mid 30MHz – 6GHz (5300 MHz)



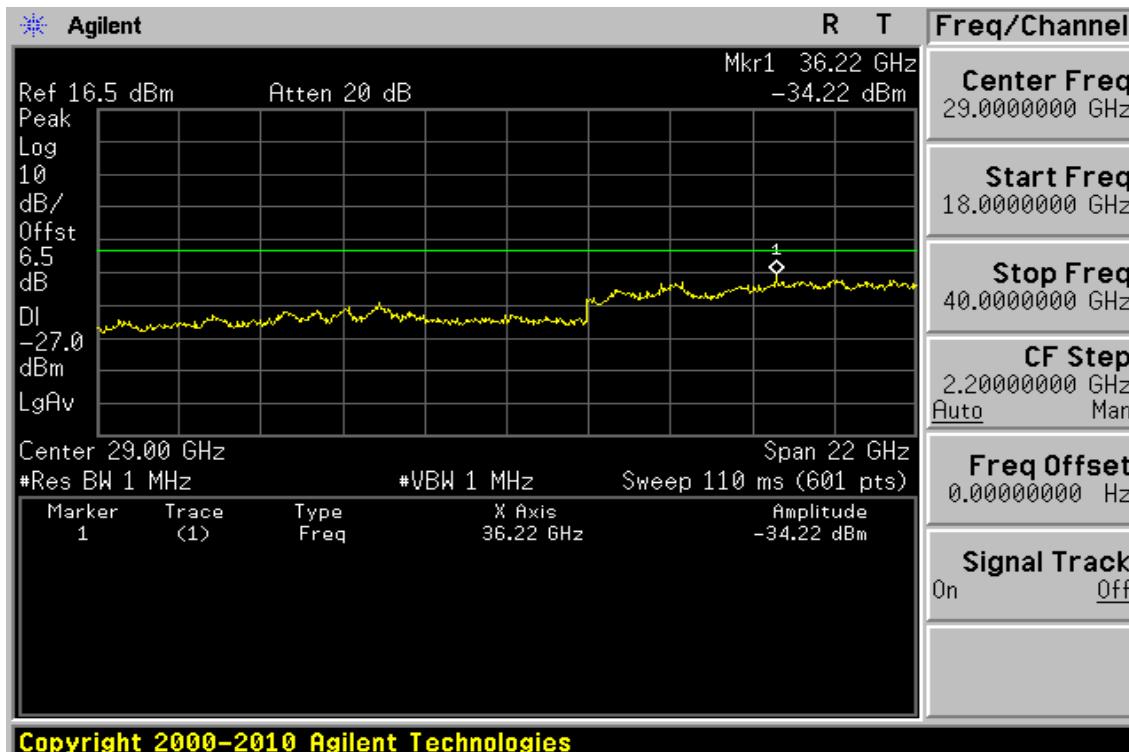
## Ch Mid 6GHz – 18GHz



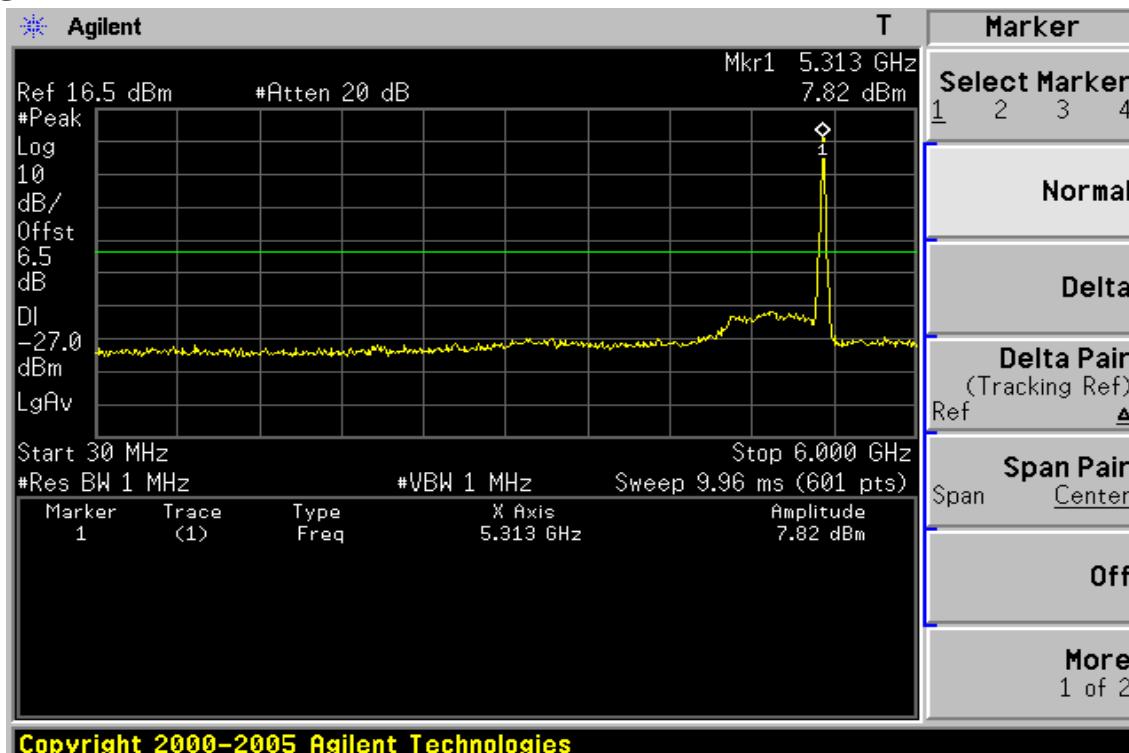
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## Ch Mid 18GHz – 40GHz



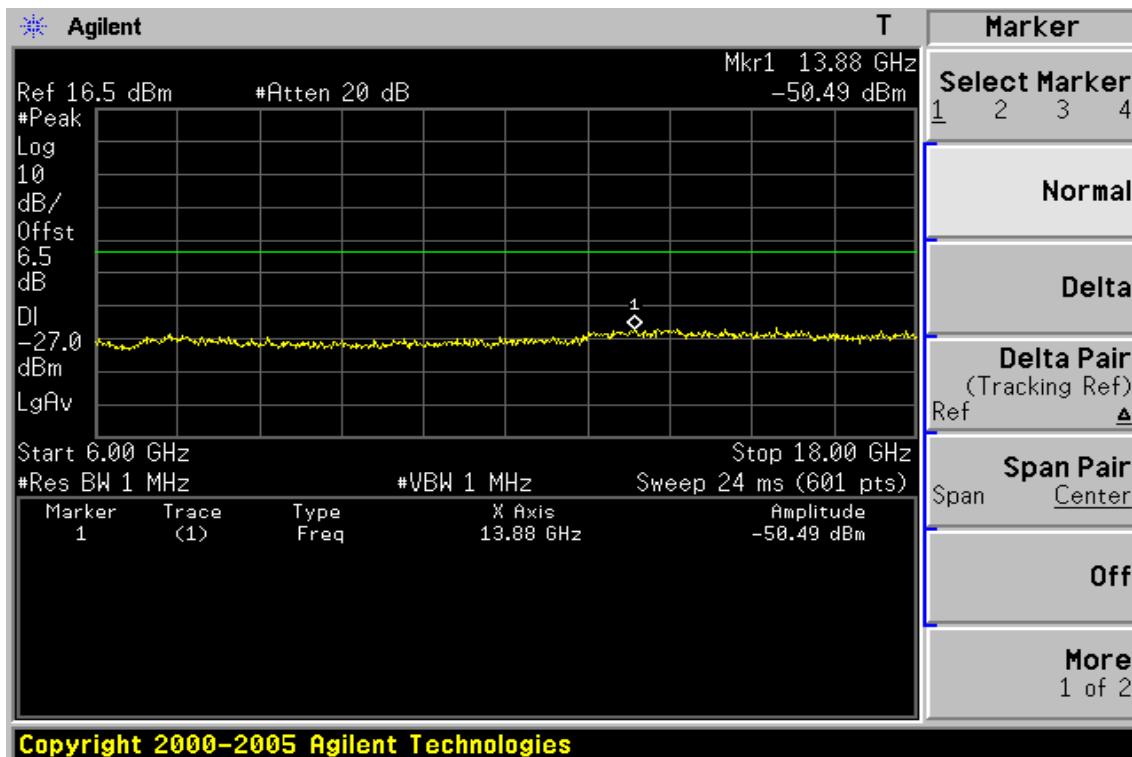
## Ch High 30MHz – 6GHz (5320 MHz)



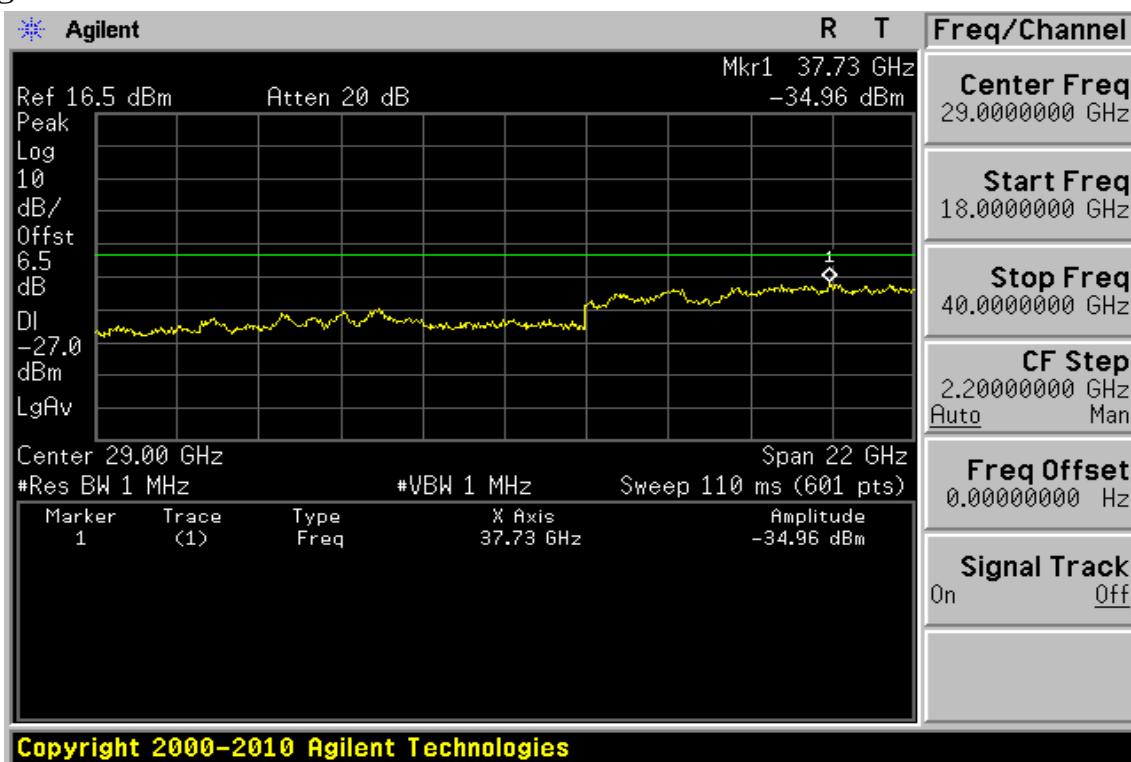
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## Ch High 6GHz – 18GHz



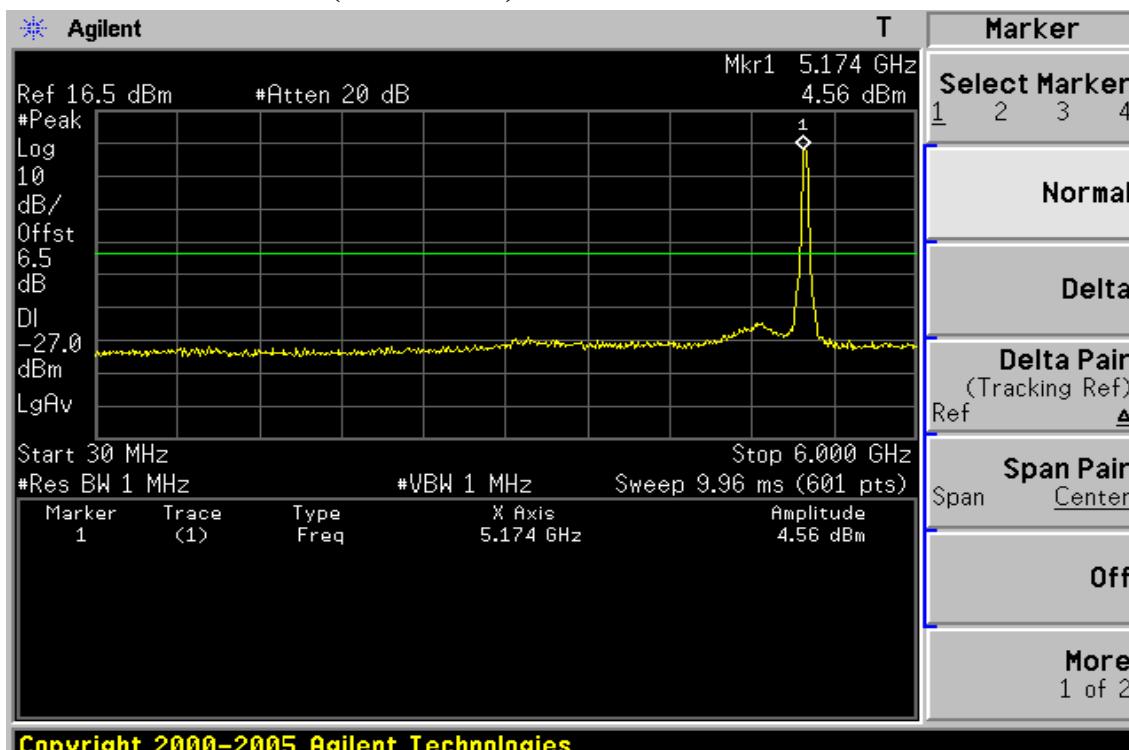
## Ch High 18GHz – 40GHz



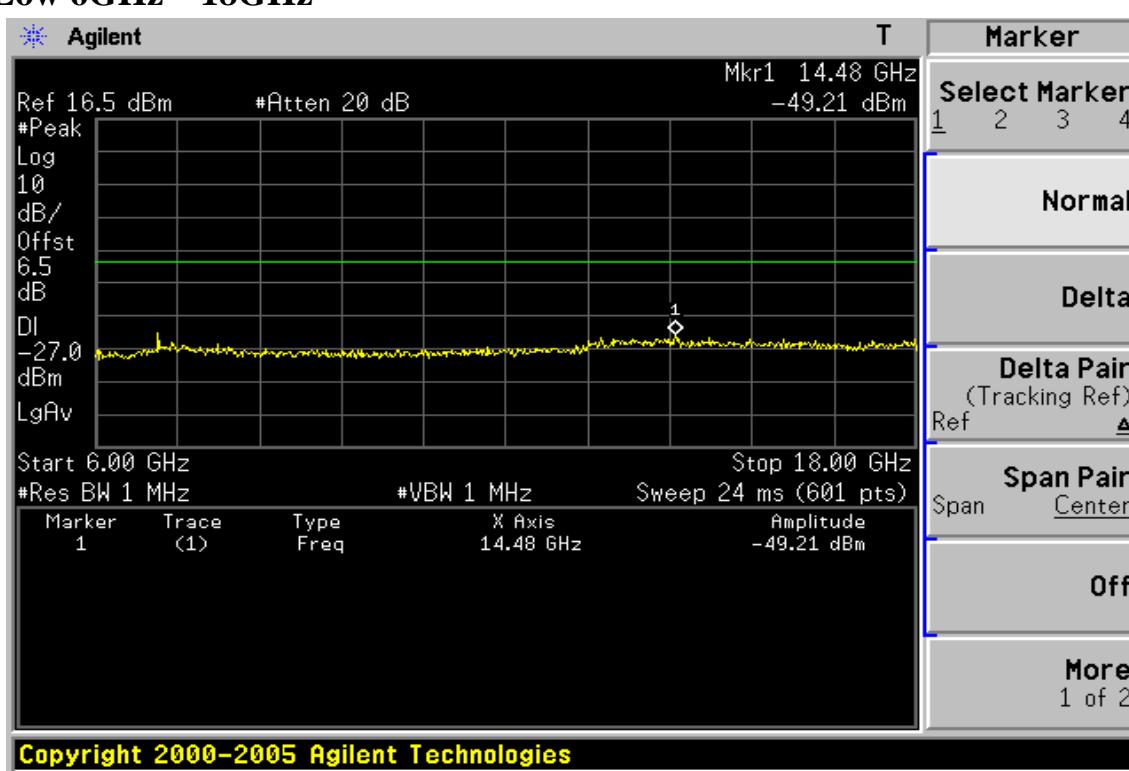
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## UNII HT40, 5150~5250 MHz Ch Low 30MHz – 6GHz (5190 MHz)



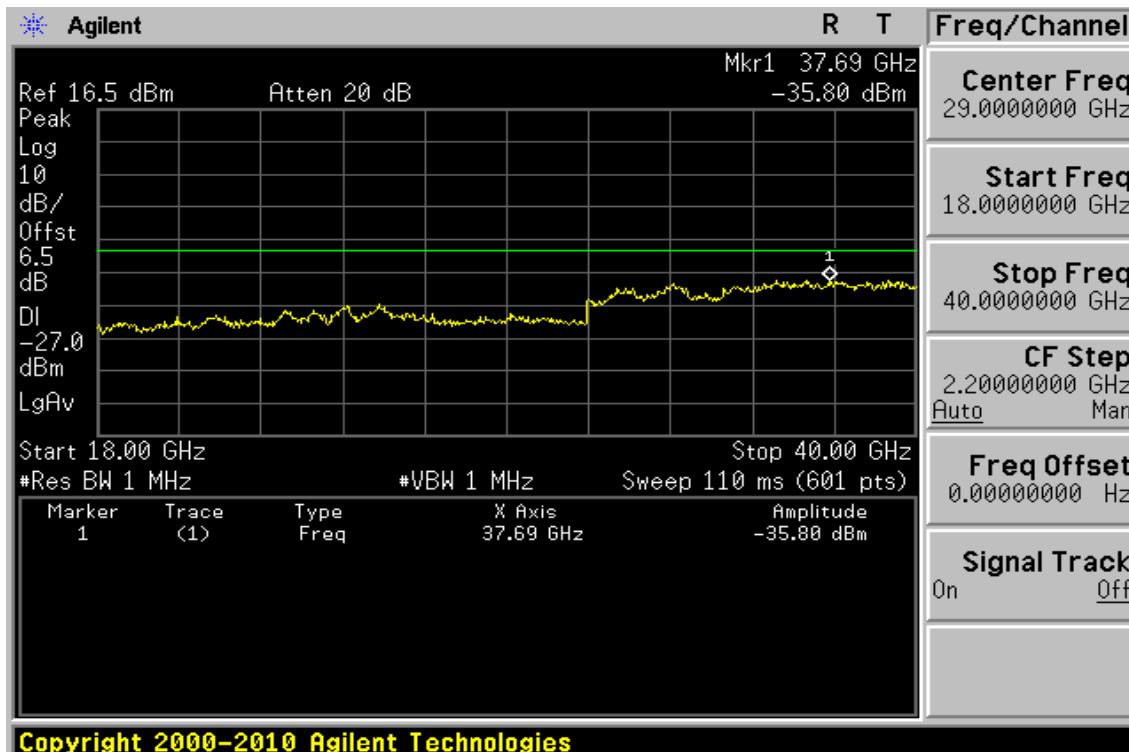
## Ch Low 6GHz – 18GHz



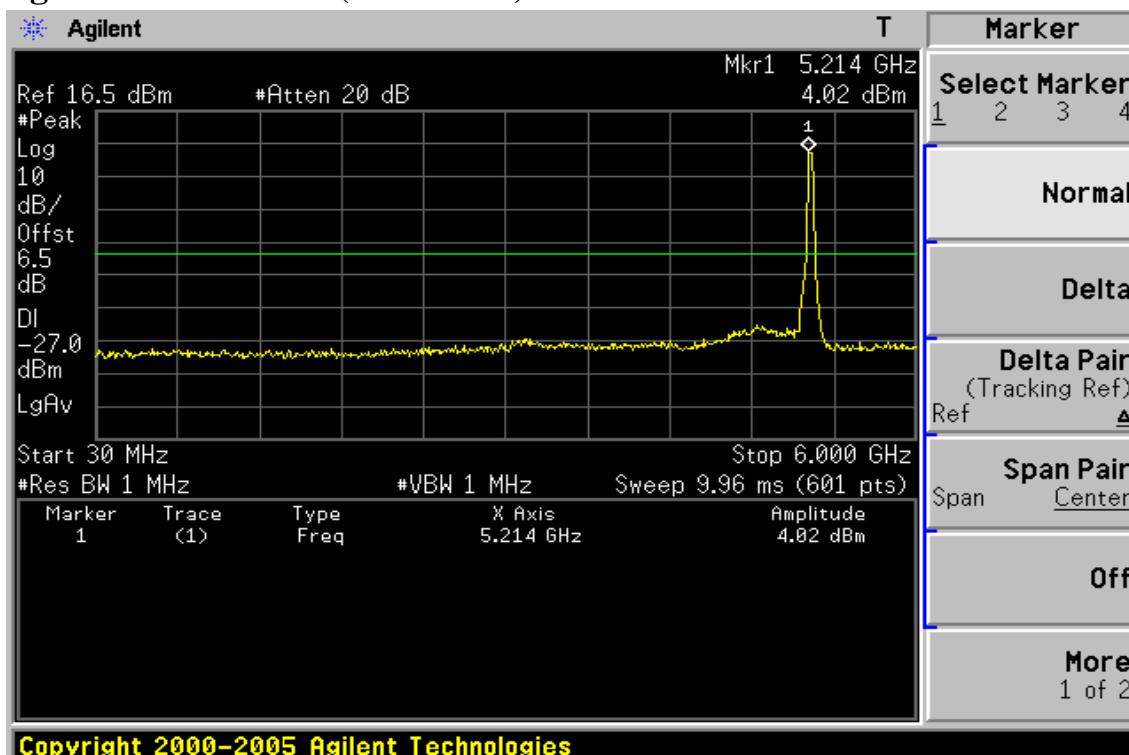
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## Ch Low 18GHz – 40GHz



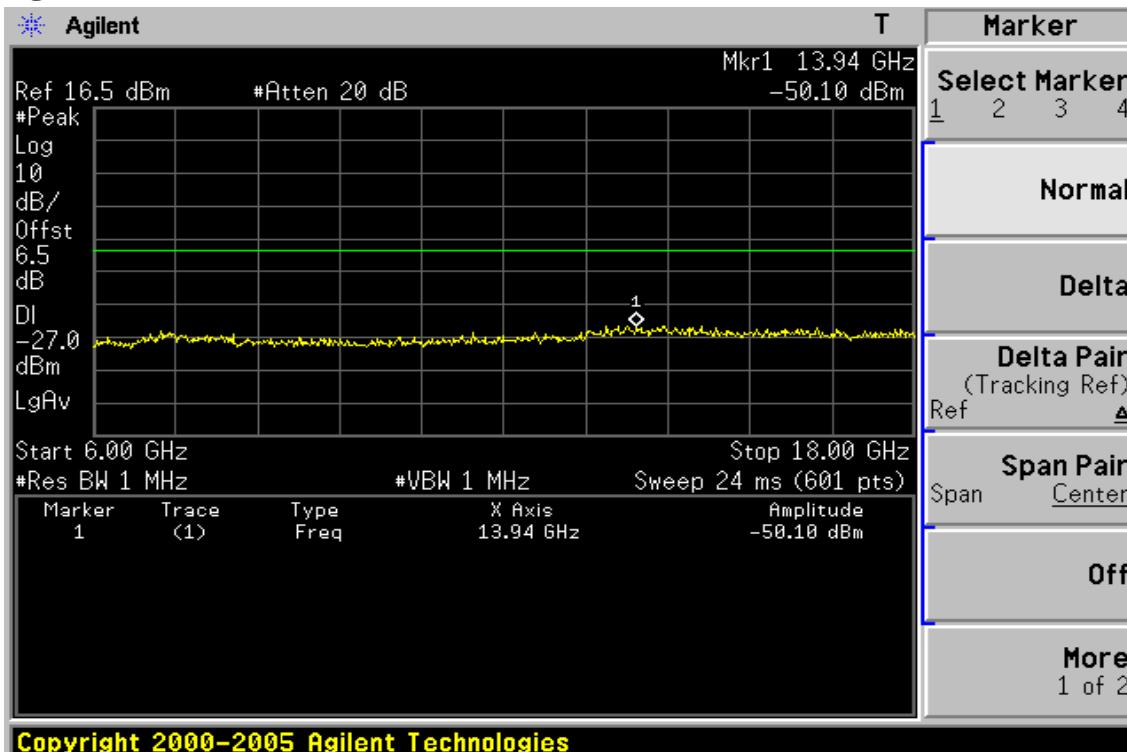
## Ch High 30MHz – 6GHz (5230 MHz)



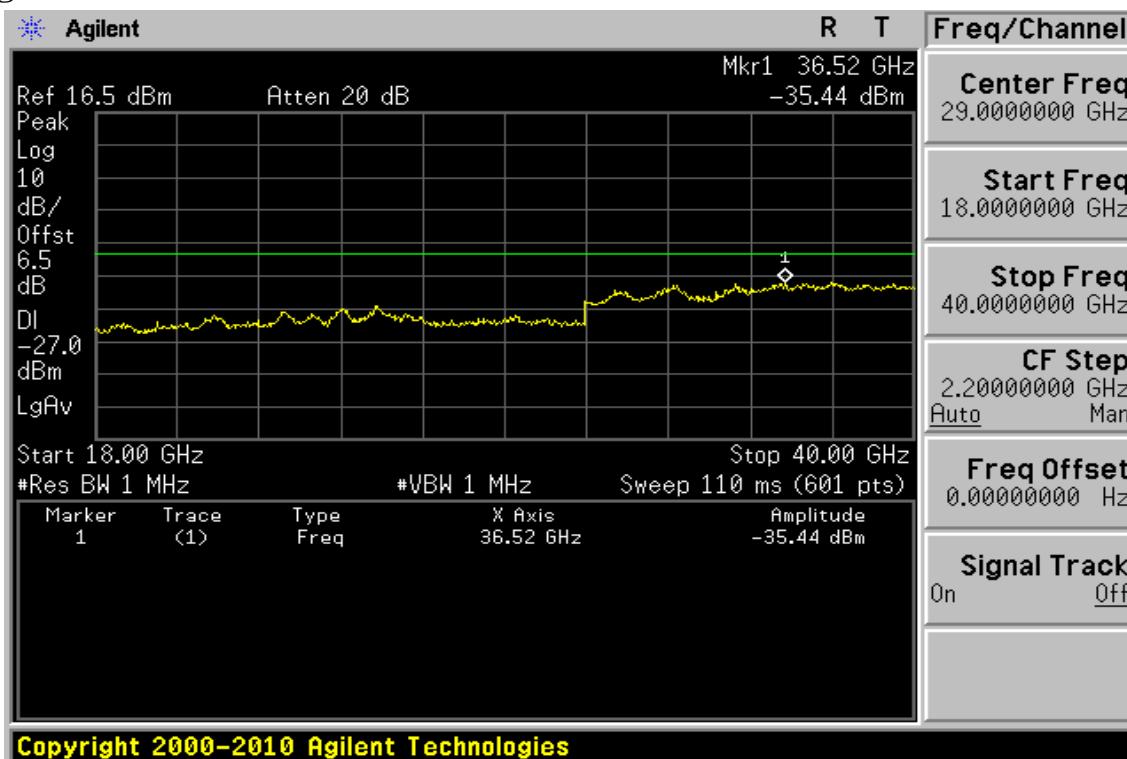
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## Ch High 6GHz – 18GHz



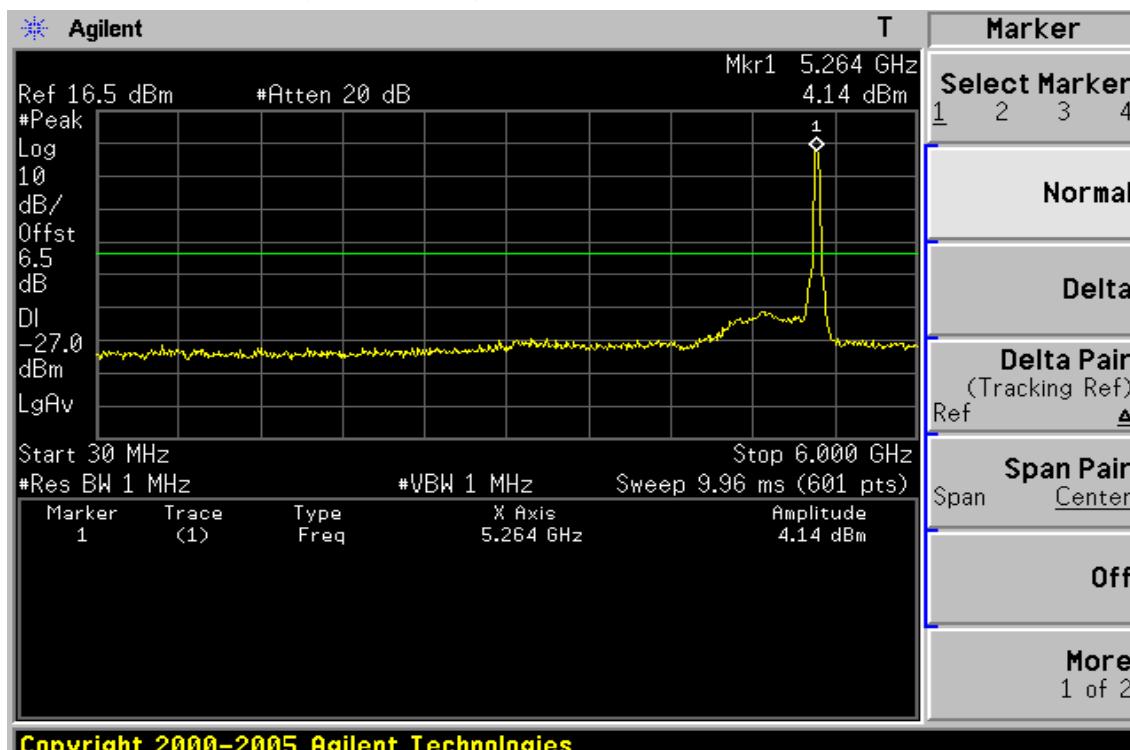
## Ch High 18GHz – 40GHz



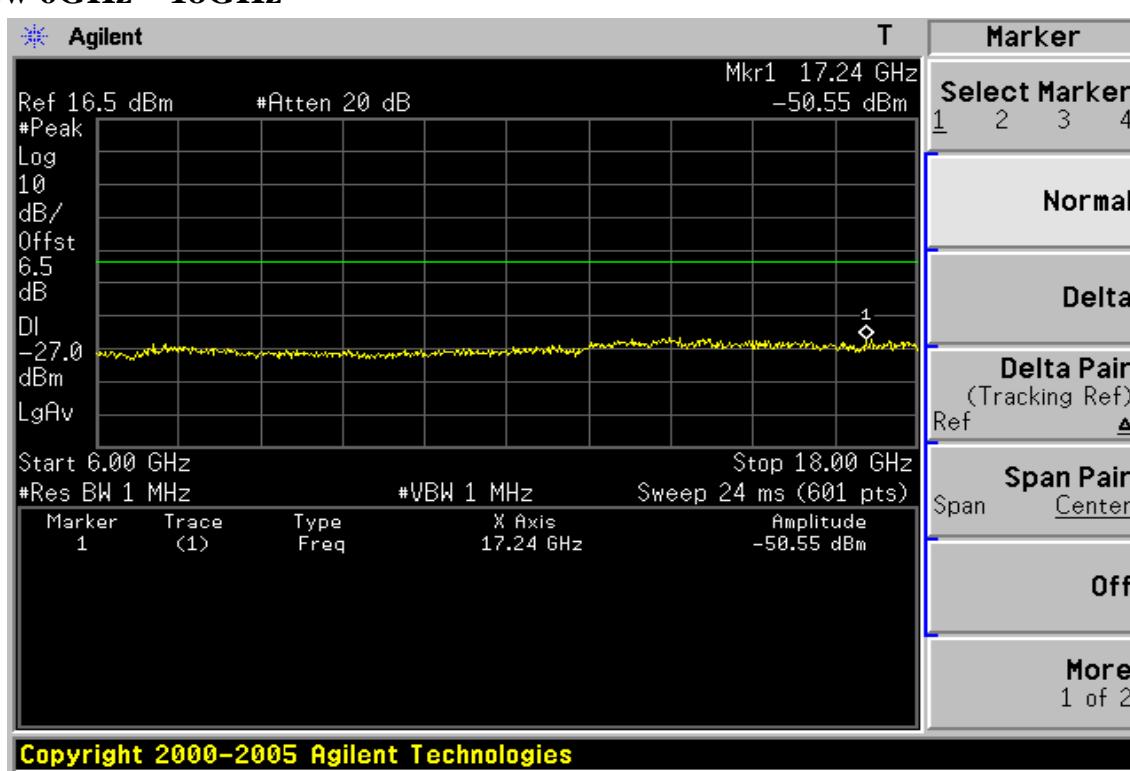
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## UNII HT40, 5250~5350 MHz Ch Low 30MHz – 6GHz (5270 MHz)



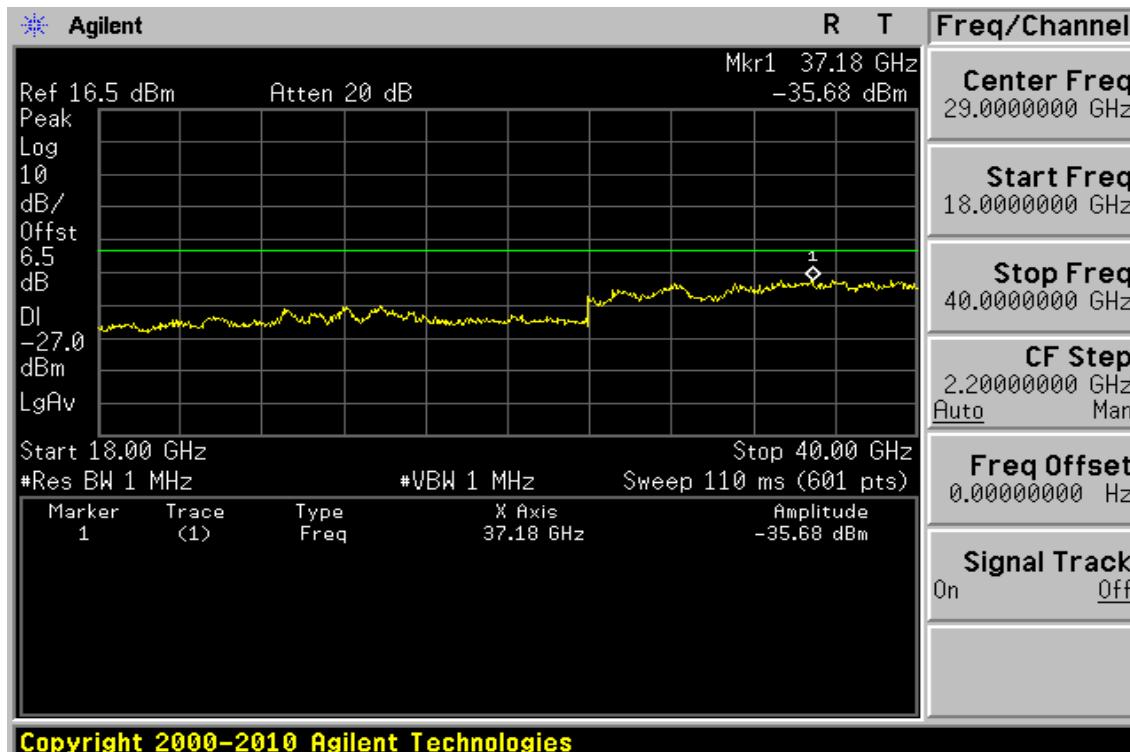
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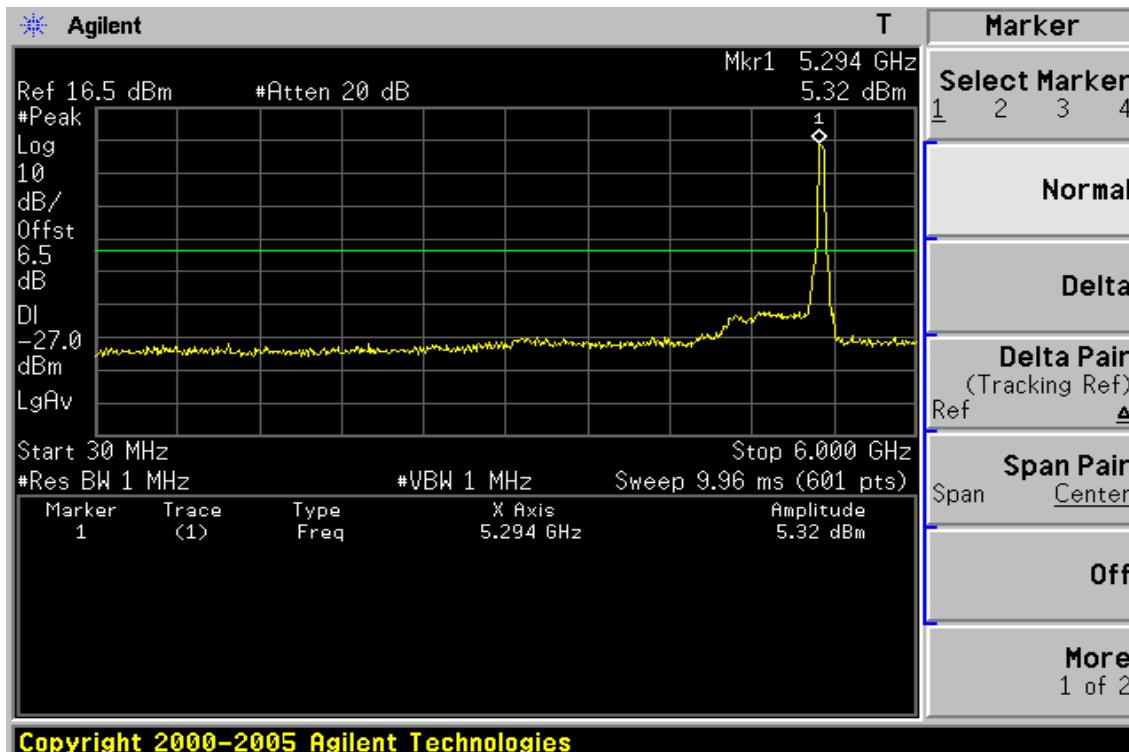
## Ch Low 18GHz – 40GHz



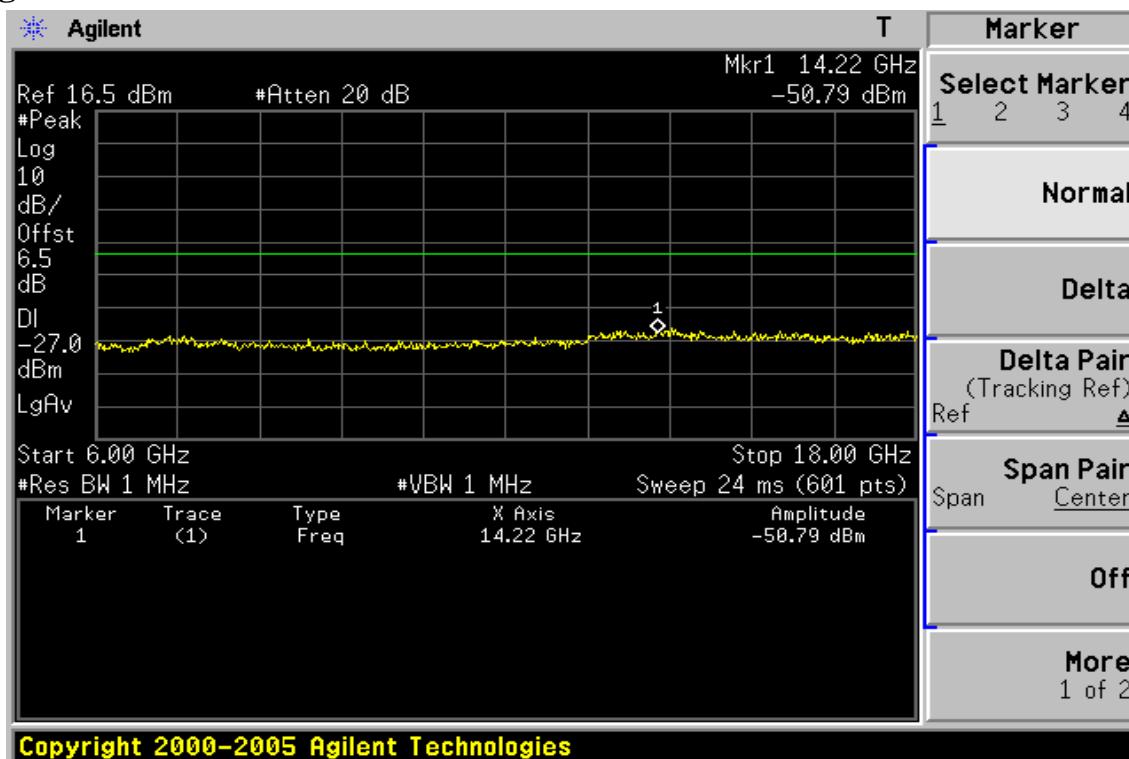
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## Ch High 30MHz – 6GHz (5310 MHz)



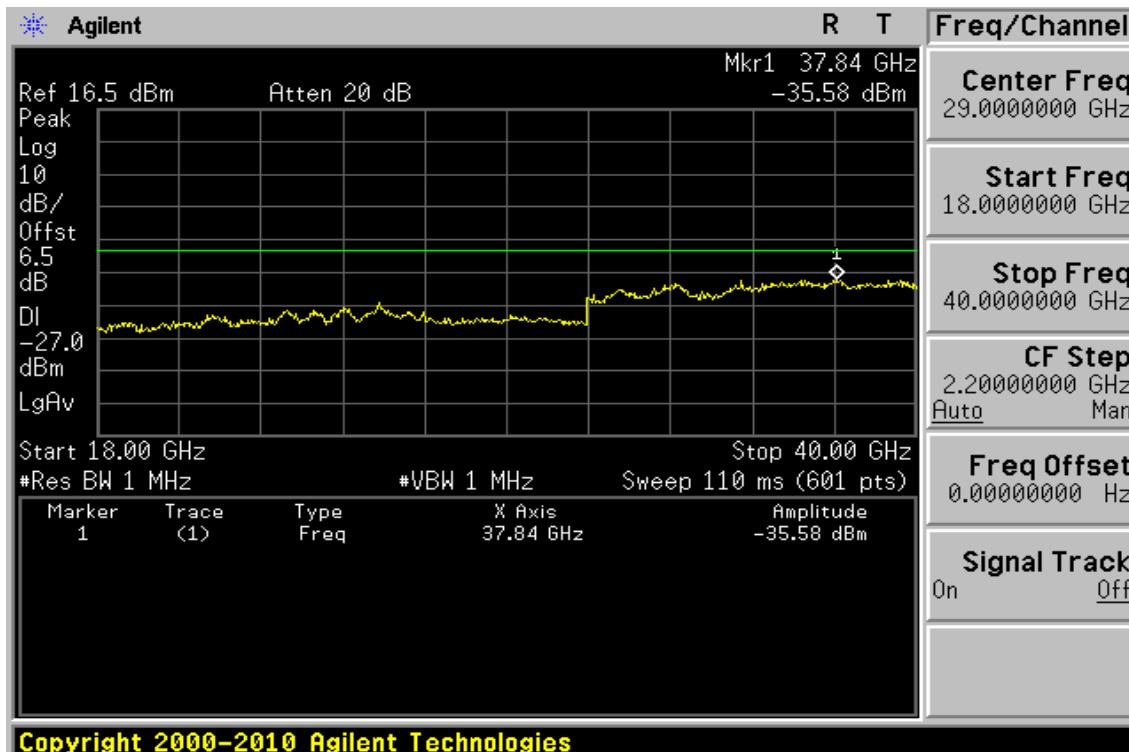
## Ch High 6GHz – 18GHz



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## Ch High 18GHz – 40GHz



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## 11. UNDESIRABLE EMISSION - RADICTED MEASUREMENT

### 11.1 Standard Applicable

According to §15.407(b),

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

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

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## §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
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41	322 - 335.4		

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> 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

### 11.2 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.

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### 11.3 Measurement Procedure

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

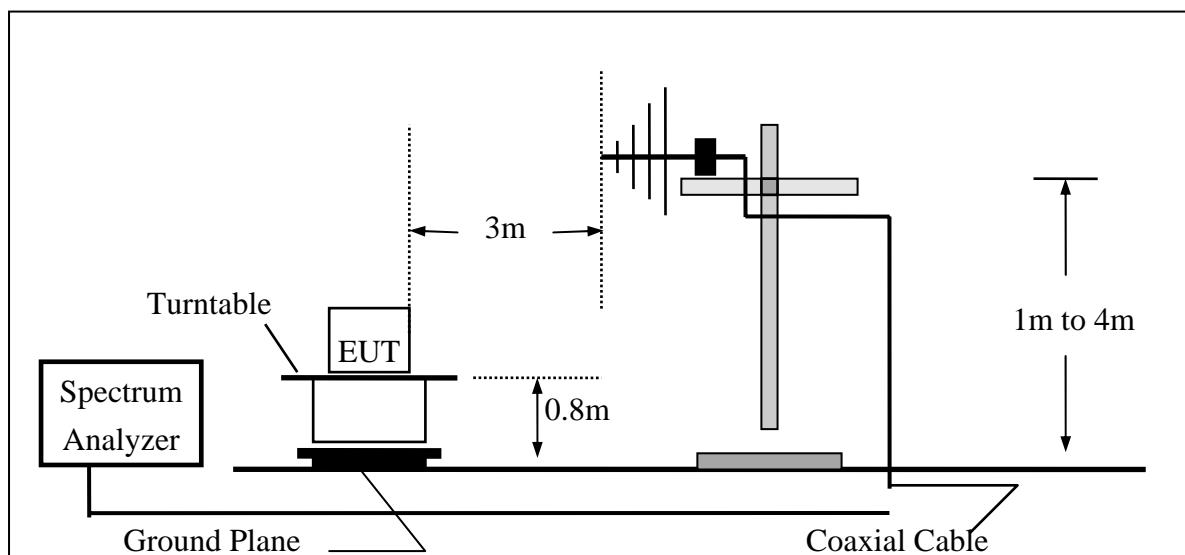
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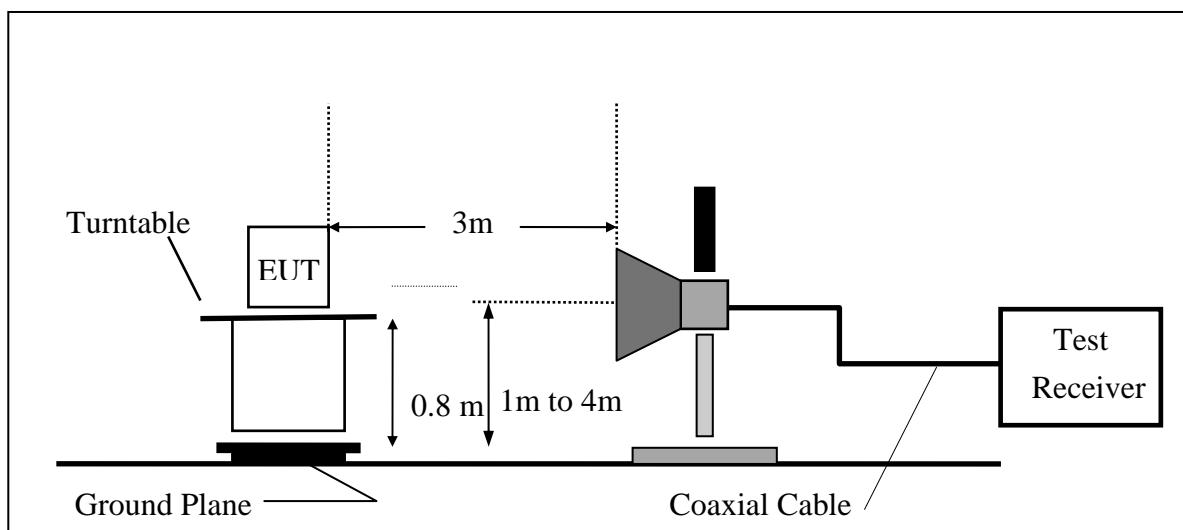
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## 11.4 Test SET-UP (Block Diagram of Configuration)

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



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



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## 11.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/29/2009	11/28/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	03/09/2011	03/08/2013
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/28/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
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	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

## 11.6 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	

## 11.7 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 (below 1GHz) UNII, 5150~5250 MHz**

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5180MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
68.80	V	Peak	40.72	-16.38	24.34	40.00	-15.66
149.31	V	Peak	39.00	-12.35	26.65	43.50	-16.85
318.09	V	Peak	27.91	-12.02	15.89	46.00	-30.11
459.71	V	Peak	30.14	-9.68	20.46	46.00	-25.54
820.55	V	Peak	28.77	-3.43	25.34	46.00	-20.66
959.26	V	Peak	28.11	-1.54	26.57	46.00	-19.43
51.34	H	Peak	28.62	-13.93	14.69	40.00	-25.31
160.95	H	Peak	28.10	-11.98	16.12	43.50	-27.38
287.05	H	Peak	29.37	-12.77	16.60	46.00	-29.40
516.94	H	Peak	28.71	-8.81	19.90	46.00	-26.10
779.81	H	Peak	28.81	-3.86	24.95	46.00	-21.05
917.55	H	Peak	29.05	-1.98	27.07	46.00	-18.93

**Remark :**

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Mid  
Fundamental Frequency 5220MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
68.80	V	Peak	40.55	-16.38	24.17	40.00	-15.83
146.40	V	Peak	38.50	-12.51	25.99	43.50	-17.51
306.45	V	Peak	27.77	-12.29	15.48	46.00	-30.52
505.30	V	Peak	29.65	-9.02	20.63	46.00	-25.37
833.16	V	Peak	28.76	-3.35	25.41	46.00	-20.59
963.14	V	Peak	28.21	-1.55	26.66	54.00	-27.34
32.91	H	Peak	30.03	-14.14	15.89	40.00	-24.11
153.19	H	Peak	28.70	-12.18	16.52	43.50	-26.98
287.05	H	Peak	29.31	-12.77	16.54	46.00	-29.46
513.06	H	Peak	8.68	-8.88	-0.20	46.00	-46.20
830.25	H	Peak	28.02	-3.37	24.65	46.00	-21.35
970.90	H	Peak	27.83	-1.55	26.28	54.00	-27.72

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High  
Fundamental Frequency 5240MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	39.20	-14.90	24.30	40.00	-15.70
148.34	V	Peak	38.85	-12.36	26.49	43.50	-17.01
318.09	V	Peak	27.65	-12.02	15.63	46.00	-30.37
515.00	V	Peak	29.13	-8.84	20.29	46.00	-25.71
835.10	V	Peak	28.47	-3.35	25.12	46.00	-20.88
888.45	V	Peak	28.70	-2.57	26.13	46.00	-19.87
59.10	H	Peak	29.92	-14.52	15.40	40.00	-24.60
151.25	H	Peak	28.30	-12.20	16.10	43.50	-27.40
287.05	H	Peak	28.82	-12.77	16.05	46.00	-29.95
517.91	H	Peak	28.85	-8.81	20.04	46.00	-25.96
838.01	H	Peak	28.89	-3.34	25.55	46.00	-20.45
959.26	H	Peak	28.83	-1.54	27.29	46.00	-18.71

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz) UNII, 5250MHz-5350MHz

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5260MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
68.80	V	Peak	40.58	-16.38	24.20	40.00	-15.80
149.31	V	Peak	39.32	-12.35	26.97	43.50	-16.53
328.76	V	Peak	27.37	-11.87	15.50	46.00	-30.50
515.00	V	Peak	30.39	-8.84	21.55	46.00	-24.45
835.10	V	Peak	28.25	-3.35	24.90	46.00	-21.10
959.26	V	Peak	28.35	-1.54	26.81	46.00	-19.19
32.91	H	Peak	30.45	-14.14	16.31	40.00	-23.69
156.10	H	Peak	29.27	-12.01	17.26	43.50	-26.24
287.05	H	Peak	29.22	-12.77	16.45	46.00	-29.55
516.94	H	Peak	28.64	-8.81	19.83	46.00	-26.17
837.04	H	Peak	29.09	-3.34	25.75	46.00	-20.25
990.30	H	Peak	28.14	-1.56	26.58	54.00	-27.42

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5300MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	39.23	-14.90	24.33	40.00	-15.67
148.34	V	Peak	38.96	-12.36	26.60	43.50	-16.90
327.79	V	Peak	27.36	-11.90	15.46	46.00	-30.54
505.30	V	Peak	29.97	-9.02	20.95	46.00	-25.05
789.51	V	Peak	28.66	-3.76	24.90	46.00	-21.10
883.60	V	Peak	29.34	-2.66	26.68	46.00	-19.32
51.34	H	Peak	29.05	-13.93	15.12	40.00	-24.88
160.95	H	Peak	28.20	-11.98	16.22	43.50	-27.28
287.05	H	Peak	30.10	-12.77	17.33	46.00	-28.67
515.00	H	Peak	29.38	-8.84	20.54	46.00	-25.46
810.85	H	Peak	28.00	-3.56	24.44	46.00	-21.56
915.61	H	Peak	28.69	-2.02	26.67	46.00	-19.33

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
66.86	V	Peak	40.42	-16.00	24.42	40.00	-15.58
148.34	V	Peak	38.99	-12.36	26.63	43.50	-16.87
319.06	V	Peak	28.30	-12.03	16.27	46.00	-29.73
517.91	V	Peak	30.63	-8.81	21.82	46.00	-24.18
830.25	V	Peak	28.58	-3.37	25.21	46.00	-20.79
964.11	V	Peak	28.04	-1.54	26.50	54.00	-27.50
39.70	H	Peak	28.26	-13.38	14.88	40.00	-25.12
149.31	H	Peak	29.03	-12.35	16.68	43.50	-26.82
287.05	H	Peak	28.86	-12.77	16.09	46.00	-29.91
449.04	H	Peak	30.12	-9.78	20.34	46.00	-25.66
781.75	H	Peak	28.77	-3.84	24.93	46.00	-21.07
973.81	H	Peak	27.62	-1.55	26.07	54.00	-27.93

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT20, 5150~5250 MHz**

Operation Mode TX CH Low  
 Fundamental Frequency 5180MHz  
 Temperature 25 °C  
 Humidity 65 %

Test Date May. 25, 2011  
 Test By Jay  
 Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	39.28	-14.90	24.38	40.00	-15.62
144.46	V	Peak	39.20	-12.66	26.54	43.50	-16.96
327.79	V	Peak	28.59	-11.90	16.69	46.00	-29.31
515.00	V	Peak	30.24	-8.84	21.40	46.00	-24.60
837.04	V	Peak	28.38	-3.34	25.04	46.00	-20.96
964.11	V	Peak	28.05	-1.54	26.51	54.00	-27.49
44.55	H	Peak	28.23	-13.62	14.61	40.00	-25.39
149.31	H	Peak	28.80	-12.35	16.45	43.50	-27.05
287.05	H	Peak	29.72	-12.77	16.95	46.00	-29.05
482.99	H	Peak	29.55	-9.38	20.17	46.00	-25.83
755.56	H	Peak	29.79	-4.27	25.52	46.00	-20.48
983.51	H	Peak	27.87	-1.54	26.33	54.00	-27.67

**Remark :**

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH Mid  
Fundamental Frequency 5220MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	39.38	-14.90	24.48	40.00	-15.52
148.34	V	Peak	39.28	-12.36	26.92	43.50	-16.58
319.06	V	Peak	28.21	-12.03	16.18	46.00	-29.82
503.36	V	Peak	29.47	-9.05	20.42	46.00	-25.58
791.45	V	Peak	28.61	-3.74	24.87	46.00	-21.13
925.31	V	Peak	28.67	-1.81	26.86	46.00	-19.14
49.40	H	Peak	28.59	-13.93	14.66	40.00	-25.34
144.46	H	Peak	28.64	-12.66	15.98	43.50	-27.52
287.05	H	Peak	29.45	-12.77	16.68	46.00	-29.32
513.06	H	Peak	30.03	-8.88	21.15	46.00	-24.85
839.95	H	Peak	28.42	-3.34	25.08	46.00	-20.92
970.90	H	Peak	27.89	-1.55	26.34	54.00	-27.66

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High  
Fundamental Frequency 5240MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
66.86	V	Peak	39.80	-16.00	23.80	40.00	-16.20
146.74	V	Peak	38.83	-12.51	26.32	43.50	-17.18
321.00	V	Peak	27.87	-11.99	15.88	46.00	-30.12
507.24	V	Peak	29.64	-8.98	20.66	46.00	-25.34
759.44	V	Peak	29.86	-4.22	25.64	46.00	-20.36
919.49	V	Peak	28.61	-1.96	26.65	46.00	-19.35
59.10	H	Peak	29.59	-14.52	15.07	40.00	-24.93
156.10	H	Peak	28.44	-12.01	16.43	43.50	-27.07
287.05	H	Peak	29.57	-12.77	16.80	46.00	-29.20
516.94	H	Peak	28.25	-8.81	19.44	46.00	-26.56
833.16	H	Peak	28.04	-3.35	24.69	46.00	-21.31
954.41	H	Peak	28.17	-1.53	26.64	46.00	-19.36

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT20, 5250~5350 MHz

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5260MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	39.15	-14.52	24.63	40.00	-15.37
148.34	V	Peak	39.06	-12.36	26.70	43.50	-16.80
287.05	V	Peak	28.03	-12.77	15.26	46.00	-30.74
510.15	V	Peak	30.06	-8.91	21.15	46.00	-24.85
823.46	V	Peak	28.28	-3.39	24.89	46.00	-21.11
930.16	V	Peak	29.56	-1.76	27.80	46.00	-18.20
56.19	H	Peak	28.89	-13.62	15.27	40.00	-24.73
143.49	H	Peak	28.78	-11.98	16.80	43.50	-26.70
287.05	H	Peak	29.19	-11.88	17.31	46.00	-28.69
500.45	H	Peak	29.22	-8.77	20.45	46.00	-25.55
837.04	H	Peak	28.48	-3.70	24.78	46.00	-21.22
920.46	H	Peak	28.54	-1.54	27.00	46.00	-19.00

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5300MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
66.86	V	Peak	40.19	-16.00	24.19	40.00	-15.81
149.31	V	Peak	39.50	-12.35	27.15	43.50	-16.35
309.36	V	Peak	28.53	-12.26	16.27	46.00	-29.73
515.00	V	Peak	29.77	-8.84	20.93	46.00	-25.07
822.49	V	Peak	28.69	-3.42	25.27	46.00	-20.73
961.20	V	Peak	28.18	-1.54	26.64	54.00	-27.36
41.46	H	Peak	29.22	-13.51	15.71	40.00	-24.29
159.01	H	Peak	28.25	-11.99	16.26	43.50	-27.24
298.69	H	Peak	29.48	-12.45	17.03	46.00	-28.97
510.15	H	Peak	28.29	-8.91	19.38	46.00	-26.62
838.01	H	Peak	30.45	-3.34	27.11	46.00	-18.89
964.11	H	Peak	28.67	-1.54	27.13	54.00	-26.87

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
66.86	V	Peak	40.03	-16.00	24.03	40.00	-15.97
148.34	V	Peak	38.38	-12.36	26.02	43.50	-17.48
321.00	V	Peak	27.14	-11.99	15.15	46.00	-30.85
519.85	V	Peak	29.58	-8.77	20.81	46.00	-25.19
839.95	V	Peak	28.54	-3.34	25.20	46.00	-20.80
961.20	V	Peak	28.57	-1.54	27.03	54.00	-26.97
39.70	H	Peak	29.21	-13.38	15.83	40.00	-24.17
141.55	H	Peak	29.20	-12.95	16.25	43.50	-27.25
287.05	H	Peak	29.99	-12.77	17.22	46.00	-28.78
513.06	H	Peak	28.90	-8.88	20.02	46.00	-25.98
762.35	H	Peak	30.36	-4.15	26.21	46.00	-19.79
934.04	H	Peak	28.23	-1.72	26.51	46.00	-19.49

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40, 5150~5250 MHz**

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5190MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	38.90	-14.52	24.38	40.00	-15.62
149.31	V	Peak	39.21	-12.35	26.86	43.50	-16.64
311.30	V	Peak	28.48	-12.22	16.26	46.00	-29.74
510.15	V	Peak	29.25	-8.91	20.34	46.00	-25.66
757.50	V	Peak	28.74	-4.24	24.50	46.00	-21.50
966.05	V	Peak	27.97	-1.54	26.43	54.00	-27.57
57.16	H	Peak	29.03	-14.37	14.66	40.00	-25.34
143.49	H	Peak	28.97	-12.80	16.17	43.50	-27.33
287.05	H	Peak	30.38	-12.77	17.61	46.00	-28.39
479.11	H	Peak	30.33	-9.43	20.90	46.00	-25.10
789.51	H	Peak	29.33	-3.76	25.57	46.00	-20.43
959.26	H	Peak	27.91	-1.54	26.37	46.00	-19.63

**Remark :**

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5230MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	39.20	-14.90	24.30	40.00	-15.70
149.31	V	Peak	38.87	-12.35	26.52	43.50	-16.98
318.09	V	Peak	28.25	-12.02	16.23	46.00	-29.77
512.09	V	Peak	29.94	-8.88	21.06	46.00	-24.94
839.95	V	Peak	28.68	-3.34	25.34	46.00	-20.66
951.50	V	Peak	29.19	-1.53	27.66	46.00	-18.34
46.49	H	Peak	28.53	-13.76	14.77	40.00	-25.23
153.19	H	Peak	30.57	-12.18	18.39	43.50	-25.11
287.05	H	Peak	29.77	-12.77	17.00	46.00	-29.00
513.06	H	Peak	29.15	-8.88	20.27	46.00	-25.73
839.95	H	Peak	28.37	-3.34	25.03	46.00	-20.97
964.11	H	Peak	28.91	-1.54	27.37	54.00	-26.63

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40, 5250~5350 MHz**

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5270MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	38.98	-14.52	24.46	40.00	-15.54
148.34	V	Peak	39.01	-12.36	26.65	43.50	-16.85
287.05	V	Peak	28.84	-12.77	16.07	46.00	-29.93
519.85	V	Peak	29.28	-8.77	20.51	46.00	-25.49
838.01	V	Peak	28.53	-3.34	25.19	46.00	-20.81
990.30	V	Peak	28.43	-1.56	26.87	54.00	-27.13
39.70	H	Peak	25.85	-13.38	12.47	40.00	-27.53
159.01	H	Peak	27.88	-11.99	15.89	43.50	-27.61
314.21	H	Peak	29.05	-12.14	16.91	46.00	-29.09
510.15	H	Peak	29.16	-8.91	20.25	46.00	-25.75
839.95	H	Peak	28.27	-3.34	24.93	46.00	-21.07
977.69	H	Peak	28.09	-1.53	26.56	54.00	-27.44

**Remark :**

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5310MHz	Test By	Jay
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
65.89	V	Peak	39.93	-15.63	24.30	40.00	-15.70
151.25	V	Peak	38.73	-12.20	26.53	43.50	-16.97
314.21	V	Peak	28.74	-12.14	16.60	46.00	-29.40
510.15	V	Peak	30.30	-8.91	21.39	46.00	-24.61
837.04	V	Peak	28.54	-3.34	25.20	46.00	-20.80
983.51	V	Peak	28.63	-1.54	27.09	54.00	-26.91
41.64	H	Peak	29.19	-13.51	15.68	40.00	-24.32
144.46	H	Peak	28.84	-12.66	16.18	43.50	-27.32
287.05	H	Peak	29.18	-12.77	16.41	46.00	-29.59
512.09	H	Peak	28.77	-8.88	19.89	46.00	-26.11
754.59	H	Peak	29.70	-4.27	25.43	46.00	-20.57
977.69	H	Peak	28.37	-1.53	26.84	54.00	-27.16

#### Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz。
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5150~5250 MHz**

Operation Mode TX CH Low  
Fundamental Frequency 5180MHz  
Temperature 25 °C  
Humidity 60 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	36.44	---	11.61	48.05	---	74.00	54.00	-5.95	Peak
10360.0	22.79	---	18.46	41.25	---	74.00	54.00	-12.75	Peak
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
36260.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
46620.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH Low  
Fundamental Frequency 5180MHz  
Temperature 25 °C  
Humidity 60 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hon.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7123.0	33.95	---	11.72	45.67	---	74.00	54.00	-8.33	Peak
10360.0	22.51	---	18.39	40.90	---	74.00	54.00	-13.10	Peak
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
36260.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
46620.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date May. 25, 2011  
 Fundamental Frequency 5220MHz Test By Jay  
 Temperature 25 °C Pol Ver.  
 Humidity 60 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
7090.5	36.40	---	11.61	48.01	---	74.00	54.00	-5.99 Peak
10440.0	22.46	---	18.26	40.72	---	74.00	54.00	-13.28 Peak
15660.0	----					74.00	54.00	
20880.0	----					74.00	54.00	
26100.0	----					74.00	54.00	
31320.0	----					74.00	54.00	
36540.0	----					74.00	54.00	
41760.0	----					74.00	54.00	
46980.0	----					74.00	54.00	
52200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5220MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	33.70	---	11.61	45.31	---	74.00	54.00	-8.69 Peak
10440.0	22.16	---	18.26	40.42	---	74.00	54.00	-13.58 Peak
15660.0	----					74.00	54.00	
20880.0	----					74.00	54.00	
26100.0	----					74.00	54.00	
31320.0	----					74.00	54.00	
36540.0	----					74.00	54.00	
41760.0	----					74.00	54.00	
46980.0	----					74.00	54.00	
52200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH High  
Fundamental Frequency 5240MHz  
Temperature 25 °C  
Humidity 60 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	35.71	---	11.61	47.32	---	74.00	54.00	-6.68	Peak
10480.0	22.58	---	18.31	40.89	---	74.00	54.00	-13.11	Peak
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5240MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6863.0	34.12	---	11.09	45.21	---	74.00	54.00	-8.79 Peak
10480.0	22.92	---	18.25	41.17	---	74.00	54.00	-12.83 Peak
15720.0	----					74.00	54.00	
20960.0	----					74.00	54.00	
26200.0	----					74.00	54.00	
31440.0	----					74.00	54.00	
36680.0	----					74.00	54.00	
41920.0	----					74.00	54.00	
47160.0	----					74.00	54.00	
52400.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5250~5350 MHz

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5260MHz	Test By	Jay
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	36.31	---	11.61	47.92	---	74.00	54.00	-6.08 Peak
10520.0	22.97	---	18.30	41.27	---	74.00	54.00	-12.73 Peak
15780.0	----					74.00	54.00	
21040.0	----					74.00	54.00	
26300.0	----					74.00	54.00	
31560.0	----					74.00	54.00	
36820.0	----					74.00	54.00	
42080.0	----					74.00	54.00	
47340.0	----					74.00	54.00	
52600.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5260MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6993.0	34.30	---	11.28	45.58	---	74.00	54.00	-8.42 Peak
10520.0	22.10	---	18.51	40.61	---	74.00	54.00	-13.39 Peak
15780.0	----					74.00	54.00	
21040.0	----					74.00	54.00	
26300.0	----					74.00	54.00	
31560.0	----					74.00	54.00	
36820.0	----					74.00	54.00	
42080.0	----					74.00	54.00	
47340.0	----					74.00	54.00	
52600.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5300MHz	Test By	Jay
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	35.96	---	11.61	47.57	---	74.00	54.00	-6.43 Peak
10600.0	22.56	---	18.70	41.26	---	74.00	54.00	-12.74 Peak
15900.0	----					74.00	54.00	
21200.0	----					74.00	54.00	
26500.0	----					74.00	54.00	
31800.0	----					74.00	54.00	
37100.0	----					74.00	54.00	
42400.0	----					74.00	54.00	
47700.0	----					74.00	54.00	
53000.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5300MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6869.5	33.96	---	11.09	45.05	---	74.00	54.00	-8.95 Peak
10600.0	22.73	---	18.19	40.92	---	74.00	54.00	-13.08 Peak
15900.0	----					74.00	54.00	
21200.0	----					74.00	54.00	
26500.0	----					74.00	54.00	
31800.0	----					74.00	54.00	
37100.0	----					74.00	54.00	
42400.0	----					74.00	54.00	
47700.0	----					74.00	54.00	
53000.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	37.36	---	11.61	48.97	---	74.00	54.00	-5.03 Peak
10640.0	22.05	---	18.46	40.51	---	74.00	54.00	-13.49 Peak
15960.0	----					74.00	54.00	
21280.0	----					74.00	54.00	
26600.0	----					74.00	54.00	
31920.0	----					74.00	54.00	
37240.0	----					74.00	54.00	
42560.0	----					74.00	54.00	
47880.0	----					74.00	54.00	
53200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6739.5	34.22	---	10.94	45.16	---	74.00	54.00	-8.84 Peak
10640.0	22.59	---	18.44	41.03	---	74.00	54.00	-12.97 Peak
15960.0	----					74.00	54.00	
21280.0	----					74.00	54.00	
26600.0	----					74.00	54.00	
31920.0	----					74.00	54.00	
37240.0	----					74.00	54.00	
42560.0	----					74.00	54.00	
47880.0	----					74.00	54.00	
53200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT20, 5150~5250 MHz**

Operation Mode TX CH Low Test Date May. 25, 2011  
Fundamental Frequency 5180MHz Test By Jay  
Temperature 25 °C Pol Ver.  
Humidity 60 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
7090.5	37.15	---	11.61	48.76	---	74.00	54.00	-5.24 Peak
10360.0	22.55	---	18.32	40.87	---	74.00	54.00	-13.13 Peak
15540.0	----					74.00	54.00	
20720.0	----					74.00	54.00	
25900.0	----					74.00	54.00	
31080.0	----					74.00	54.00	
36260.0	----					74.00	54.00	
41440.0	----					74.00	54.00	
46620.0	----					74.00	54.00	
51800.0	----					74.00	54.00	

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5180MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
6869.5	34.88	---	11.09	45.97	---	74.00	54.00	-8.03 Peak
10360.0	22.88	---	18.19	41.07	---	74.00	54.00	-12.93 Peak
15540.0	----					74.00	54.00	
20720.0	----					74.00	54.00	
25900.0	----					74.00	54.00	
31080.0	----					74.00	54.00	
36260.0	----					74.00	54.00	
41440.0	----					74.00	54.00	
46620.0	----					74.00	54.00	
51800.0	----					74.00	54.00	

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date May. 25, 2011  
 Fundamental Frequency 5220MHz Test By Jay  
 Temperature 25 °C Pol Ver.  
 Humidity 60 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	37.00	---	11.61	48.61	---	74.00	54.00	-5.39 Peak
10440.0	23.10	---	18.19	41.29	---	74.00	54.00	-12.71 Peak
15660.0	----					74.00	54.00	
20880.0	----					74.00	54.00	
26100.0	----					74.00	54.00	
31320.0	----					74.00	54.00	
36540.0	----					74.00	54.00	
41760.0	----					74.00	54.00	
46980.0	----					74.00	54.00	
52200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5220MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7142.5	33.50	---	11.79	45.29	---	74.00	54.00	-8.71 Peak
10440.0	22.21	---	18.33	40.54	---	74.00	54.00	-13.46 Peak
15660.0	----					74.00	54.00	
20880.0	----					74.00	54.00	
26100.0	----					74.00	54.00	
31320.0	----					74.00	54.00	
36540.0	----					74.00	54.00	
41760.0	----					74.00	54.00	
46980.0	----					74.00	54.00	
52200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH High  
Fundamental Frequency 5240MHz  
Temperature 25 °C  
Humidity 60 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	36.31	---	11.61	47.92	---	74.00	54.00	-6.08	Peak
10480.0	22.38	---	18.19	40.57	---	74.00	54.00	-13.43	Peak
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5240MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
6817.5	34.70	---	11.02	45.72	---	74.00	54.00	-8.28 Peak
10480.0	23.06	---	18.19	41.25	---	74.00	54.00	-12.75 Peak
15720.0	----					74.00	54.00	
20960.0	----					74.00	54.00	
26200.0	----					74.00	54.00	
31440.0	----					74.00	54.00	
36680.0	----					74.00	54.00	
41920.0	----					74.00	54.00	
47160.0	----					74.00	54.00	
52400.0	----					74.00	54.00	

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT20, 5250~5350 MHz**

Operation Mode TX CH Low  
Fundamental Frequency 5260MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	36.13	---	11.61	47.74	---	74.00	54.00	-6.26	Peak
10520.0	22.40	---	18.19	40.59	---	74.00	54.00	-13.41	Peak
15780.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
26300.0	----					74.00	54.00		
31560.0	----					74.00	54.00		
36820.0	----					74.00	54.00		
42080.0	----					74.00	54.00		
47340.0	----					74.00	54.00		
52600.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5260MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7045.0	34.02	---	11.45	45.47	---	74.00	54.00	-8.53 Peak
10520.0	22.60	---	18.41	41.01	---	74.00	54.00	-12.99 Peak
15780.0	----					74.00	54.00	
21040.0	----					74.00	54.00	
26300.0	----					74.00	54.00	
31560.0	----					74.00	54.00	
36820.0	----					74.00	54.00	
42080.0	----					74.00	54.00	
47340.0	----					74.00	54.00	
52600.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH Low  
Fundamental Frequency 5300MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	36.57	---	11.61	48.18	---	74.00	54.00	-5.82	Peak
10600.0	22.23	---	18.26	40.49	---	74.00	54.00	-13.51	Peak
15900.0	----					74.00	54.00		
21200.0	----					74.00	54.00		
26500.0	----					74.00	54.00		
31800.0	----					74.00	54.00		
37100.0	----					74.00	54.00		
42400.0	----					74.00	54.00		
47700.0	----					74.00	54.00		
53000.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	May. 25, 2011
Fundamental Frequency	5300MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6863.0	34.13	---	11.09	45.22	---	74.00	54.00	-8.78 Peak
10600.0	22.06	---	18.38	40.44	---	74.00	54.00	-13.56 Peak
15900.0	----					74.00	54.00	
21200.0	----					74.00	54.00	
26500.0	----					74.00	54.00	
31800.0	----					74.00	54.00	
37100.0	----					74.00	54.00	
42400.0	----					74.00	54.00	
47700.0	----					74.00	54.00	
53000.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	36.86	---	11.61	48.47	---	74.00	54.00	-5.53 Peak
10640.0	22.86	---	17.89	40.75	---	74.00	54.00	-13.25 Peak
15960.0	----					74.00	54.00	
21280.0	----					74.00	54.00	
26600.0	----					74.00	54.00	
31920.0	----					74.00	54.00	
37240.0	----					74.00	54.00	
42560.0	----					74.00	54.00	
47880.0	----					74.00	54.00	
53200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5320MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7064.5	34.72	---	11.51	46.23	---	74.00	54.00	-7.77 Peak
10640.0	23.35	---	18.33	41.68	---	74.00	54.00	-12.32 Peak
15960.0	----					74.00	54.00	
21280.0	----					74.00	54.00	
26600.0	----					74.00	54.00	
31920.0	----					74.00	54.00	
37240.0	----					74.00	54.00	
42560.0	----					74.00	54.00	
47880.0	----					74.00	54.00	
53200.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT40, 5150~5250 MHz

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5190MHz	Test By	Jay
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7090.5	37.92	---	11.61	49.53	---	74.00	54.00	-4.47 Peak
10380.0	23.10	---	18.19	41.29	---	74.00	54.00	-12.71 Peak
15570.0	----					74.00	54.00	
20760.0	----					74.00	54.00	
25950.0	----					74.00	54.00	
31140.0	----					74.00	54.00	
36330.0	----					74.00	54.00	
41520.0	----					74.00	54.00	
46710.0	----					74.00	54.00	
51900.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5190MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7123.0	33.69	---	11.72	45.41	---	74.00	54.00	-8.59 Peak
10380.0	21.98	---	18.33	40.31	---	74.00	54.00	-13.69 Peak
15570.0	----					74.00	54.00	
20760.0	----					74.00	54.00	
25950.0	----					74.00	54.00	
31140.0	----					74.00	54.00	
36330.0	----					74.00	54.00	
41520.0	----					74.00	54.00	
46710.0	----					74.00	54.00	
51900.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH High Test Date May. 25, 2011  
Fundamental Frequency 5230MHz Test By Jay  
Temperature 25 °C Pol Ver.  
Humidity 60 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
7090.5	36.73	---	11.61	48.34	---	74.00	54.00	-5.66 Peak
10640.0	22.60	---	17.85	40.45	---	74.00	54.00	-13.55 Peak
15690.0	----					74.00	54.00	
20920.0	----					74.00	54.00	
26150.0	----					74.00	54.00	
31380.0	----					74.00	54.00	
36610.0	----					74.00	54.00	
41840.0	----					74.00	54.00	
47070.0	----					74.00	54.00	
52300.0	----					74.00	54.00	

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5230MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7155.5	34.07	---	11.82	45.89	---	74.00	54.00	-8.11 Peak
10640.0	22.57	---	18.19	40.76	---	74.00	54.00	-13.24 Peak
15690.0	----					74.00	54.00	
20920.0	----					74.00	54.00	
26150.0	----					74.00	54.00	
31380.0	----					74.00	54.00	
36610.0	----					74.00	54.00	
41840.0	----					74.00	54.00	
47070.0	----					74.00	54.00	
52300.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT40, 5250~5350 MHz**

Operation Mode TX CH Low  
Fundamental Frequency 5270MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	36.30	---	11.61	47.91	---	74.00	54.00	-6.09	Peak
10540.0	22.72	---	18.25	40.97	---	74.00	54.00	-13.03	Peak
15810.0	----					74.00	54.00		
21080.0	----					74.00	54.00		
26350.0	----					74.00	54.00		
31620.0	----					74.00	54.00		
36890.0	----					74.00	54.00		
42160.0	----					74.00	54.00		
47430.0	----					74.00	54.00		
52700.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	May. 25, 2011
Fundamental Frequency	5270MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
6980.0	34.83	---	11.22	46.05	---	74.00	54.00	-7.95 Peak
10540.0	22.41	---	18.41	40.82	---	74.00	54.00	-13.18 Peak
15810.0	----					74.00	54.00	
21080.0	----					74.00	54.00	
26350.0	----					74.00	54.00	
31620.0	----					74.00	54.00	
36890.0	----					74.00	54.00	
42160.0	----					74.00	54.00	
47430.0	----					74.00	54.00	
52700.0	----					74.00	54.00	

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode TX CH High  
Fundamental Frequency 5310MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Limit	Limit	Margin
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)				
7090.5	37.12	---	11.61	48.73	---	74.00	54.00	-5.27	Peak
10620.0	23.35	---	18.06	41.41	---	74.00	54.00	-12.59	Peak
15930.0	----					74.00	54.00		
21240.0	----					74.00	54.00		
26550.0	----					74.00	54.00		
31860.0	----					74.00	54.00		
37170.0	----					74.00	54.00		
42480.0	----					74.00	54.00		
47790.0	----					74.00	54.00		
53100.0	----					74.00	54.00		

**Remark:**

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	May. 25, 2011
Fundamental Frequency	5310MHz	Test By	Jay
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
7175.0	33.95	---	11.88	45.83	---	74.00	54.00	-8.17 Peak
10620.0	22.60	---	18.12	40.72	---	74.00	54.00	-13.28 Peak
10480.0	----					74.00	54.00	
15930.0	----					74.00	54.00	
21240.0	----					74.00	54.00	
26550.0	----					74.00	54.00	
31860.0	----					74.00	54.00	
37170.0	----					74.00	54.00	
42480.0	----					74.00	54.00	
47790.0	----					74.00	54.00	
53100.0								

#### Remark:

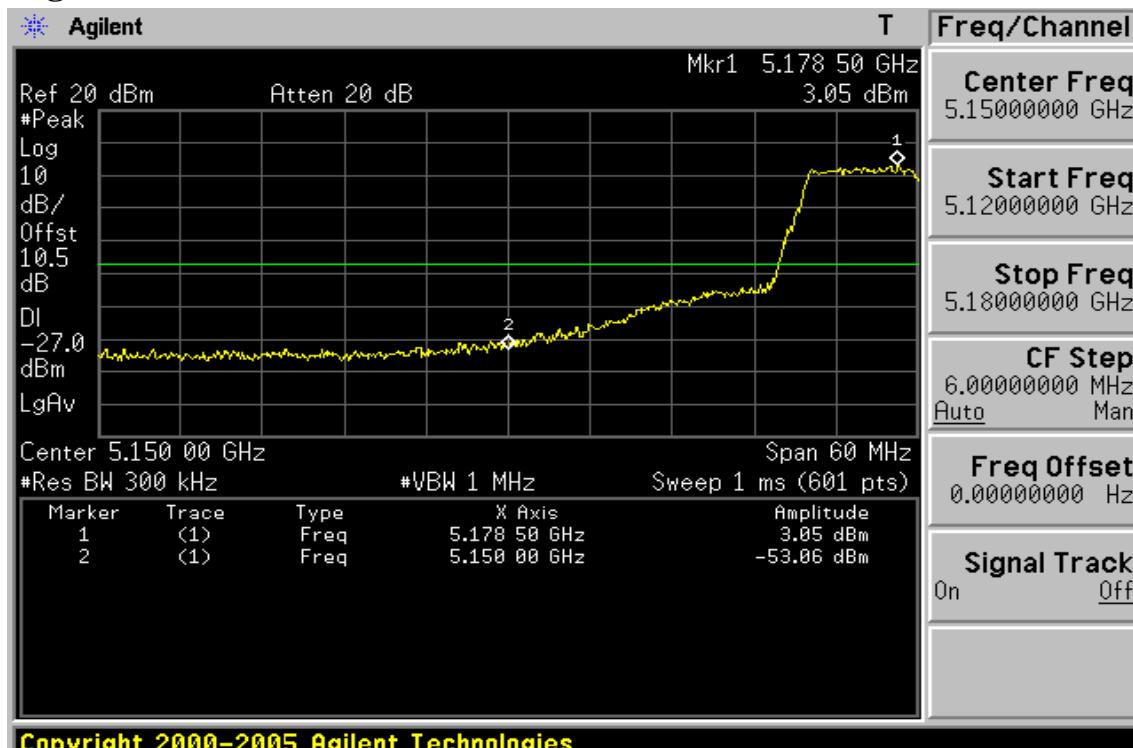
- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column °
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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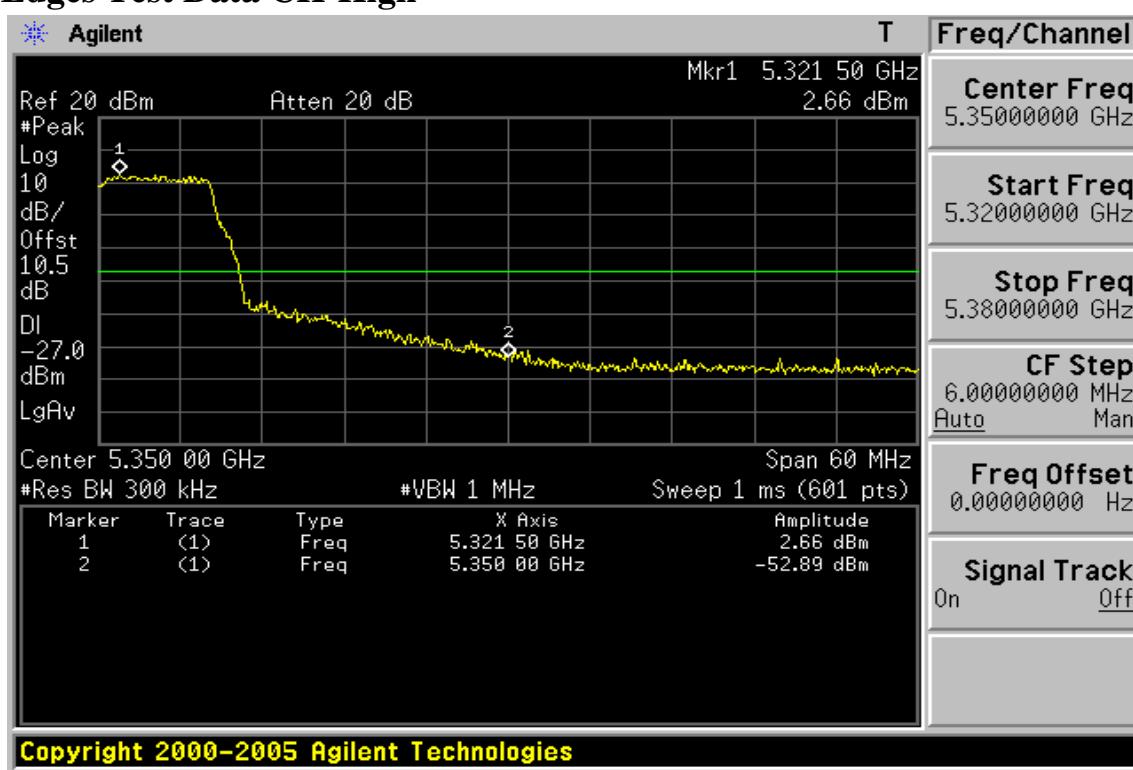
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## UNII, 5150~5350 MHz

### Band Edges Test Data CH-Low



### Band Edges Test Data CH-High



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**Radiated Emission:**

Operation Mode TX CH Low  
Fundamental Frequency 5180 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5150.00	41.80	-	6.20	48.00	-	74.00	54.00	-26.00 PK

Operation Mode TX CH Low  
Fundamental Frequency 5180 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5150.00	44.28	-	6.20	50.48	-	74.00	54.00	-23.52 PK

**Remark:**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission:**

Operation Mode TX CH High  
Fundamental Frequency 5320MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	39.25	-	6.59	45.84	-	74.00	54.00	-28.16	PK

Operation Mode TX CH High  
Fundamental Frequency 5320MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	38.30	-	6.59	44.89	-	74.00	54.00	-29.11	PK

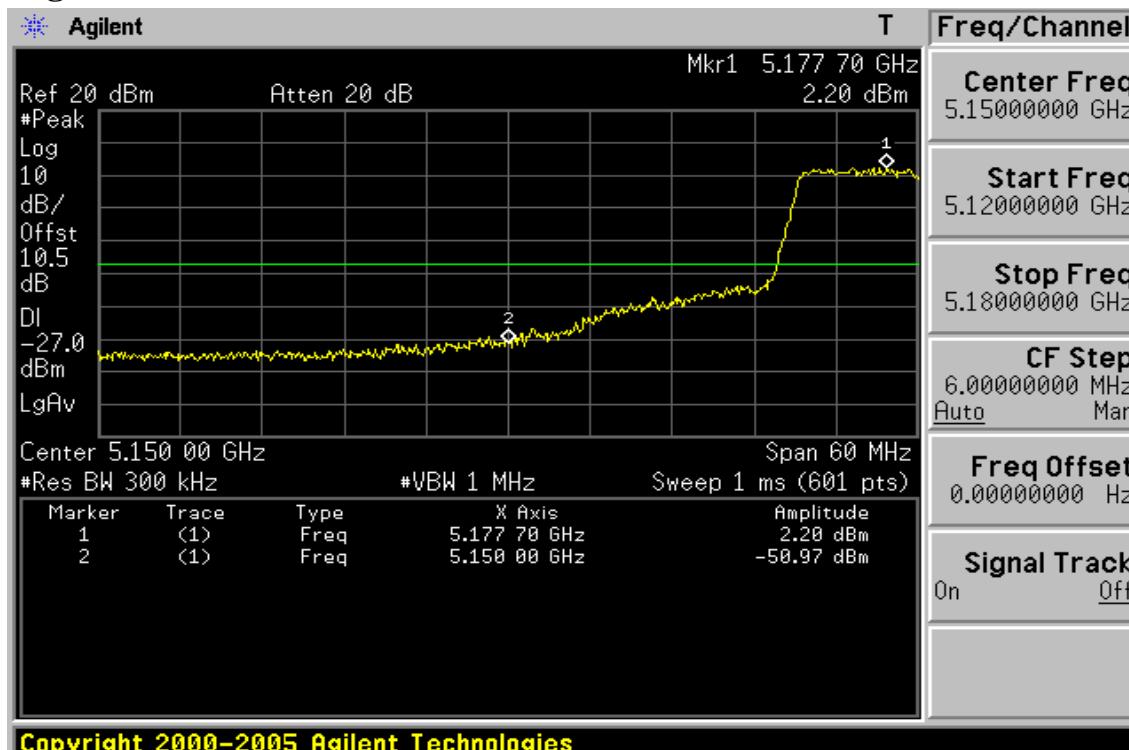
**Remark:**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

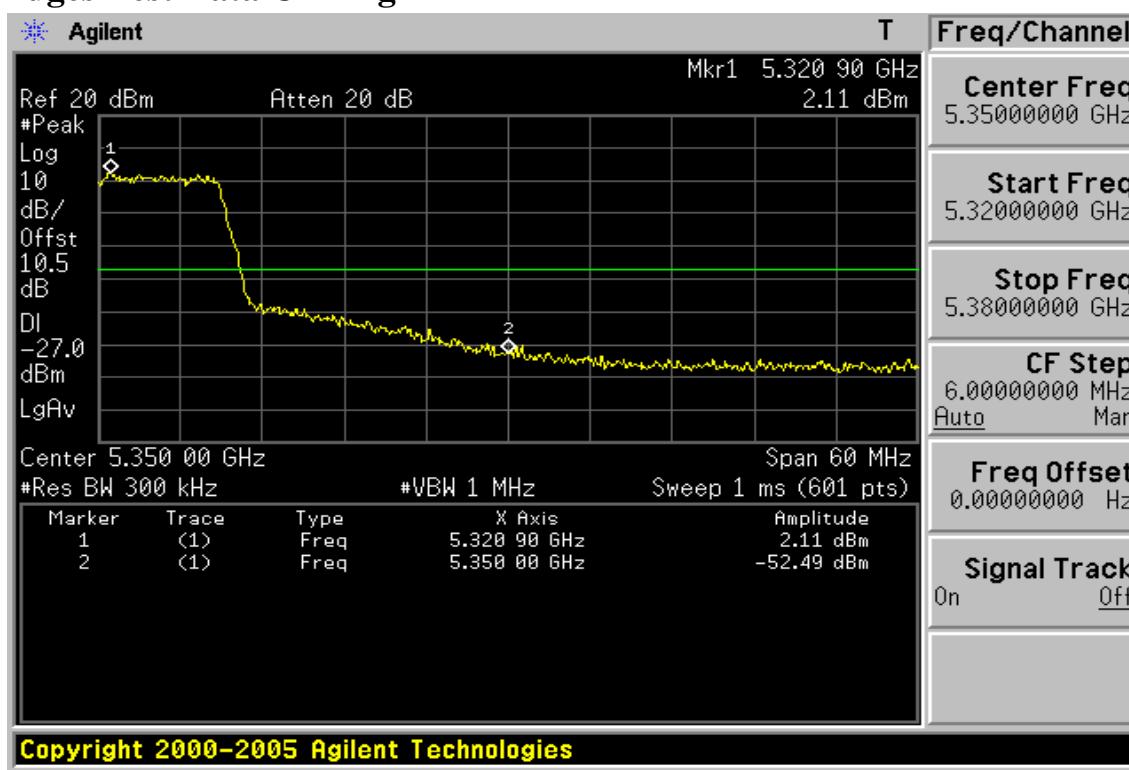
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## UNII HT20, 5150~5350 MHz Band Edges Test Data CH-Low



## Band Edges Test Data CH-High



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**Radiated Emission: HT20**

Operation Mode TX CH Low  
Fundamental Frequency 5180MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5150.00	45.17	-	6.20	51.37	-	74.00	54.00	-22.63 PK

Operation Mode TX CH Low  
Fundamental Frequency 5180 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5150.00	42.59	-	6.20	48.79	-	74.00	54.00	-25.21 PK

**Remark:**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: HT20**

Operation Mode TX CH High  
Fundamental Frequency 5320 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	39.88	-	6.59	46.47	-	74.00	54.00	-27.53	PK

Operation Mode TX CH High  
Fundamental Frequency 5320 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	37.25	-	6.59	43.84	-	74.00	54.00	-30.16	PK

**Remark:**

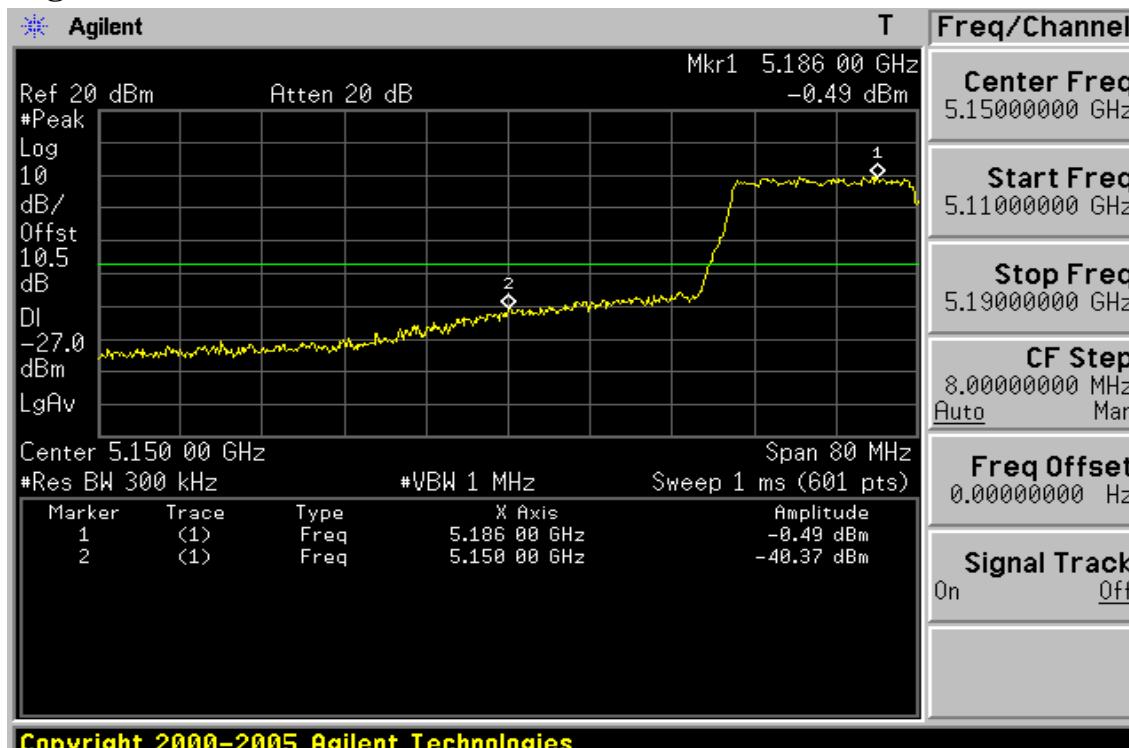
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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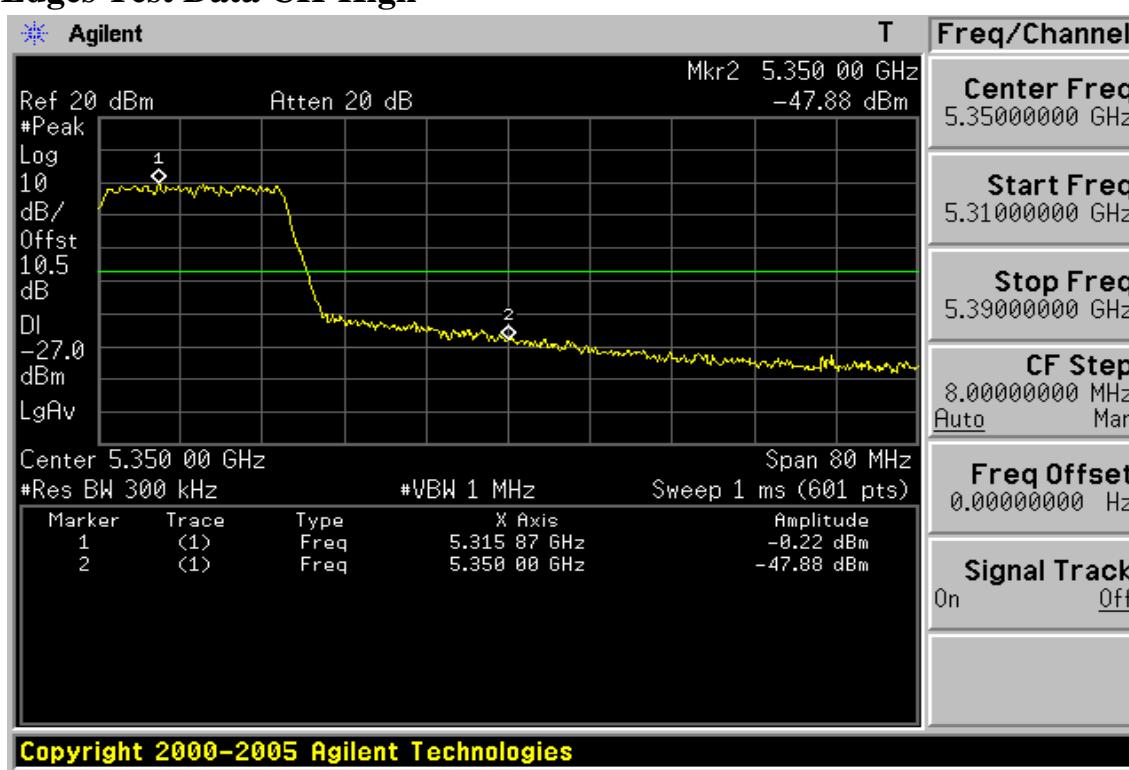
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## UNII HT40, 5150~5350 MHz

### Band Edges Test Data CH-Low



### Band Edges Test Data CH-High



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**Radiated Emission: HT40**

Operation Mode TX CH Low  
Fundamental Frequency 5190MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5150.00	49.73	35.39	6.20	55.93	41.59	74.00	54.00	-12.41	AV

Operation Mode TX CH Low  
Fundamental Frequency 5190 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5150.00	45.14	32.74	6.20	51.34	38.94	74.00	54.00	-15.06	AV

Remark:

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: HT40**

Operation Mode TX CH High  
Fundamental Frequency 5310 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Ver.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	43.21	-	6.59	49.80	-	74.00	54.00	-24.20	PK

Operation Mode TX CH High  
Fundamental Frequency 5310 MHz  
Temperature 25 °C  
Humidity 65 %

Test Date May. 25, 2011  
Test By Jay  
Pol Hor.

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)			
5350.00	38.74	-	6.59	45.33	-	74.00	54.00	-28.67	AV

**Remark:**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## 12. TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

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

### 12.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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## 13. FREQUENCY STABILITY

### 13.1 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.

### 13.2 Result:

No non-compliance noted:

±20ppm ppm was defined in product specification.

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## 14. ANTENNA REQUIREMENT

### 14.1 Standard Applicable

According to §15.203, Antenna requirement.

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

### 14.2 Antenna Connected Construction

The directional gins of antenna used for transmitting is 3.0dBi for 5GHz, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec.for details.

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## 15. TPC and DFS MEASUREMENT

### 15.1 TPC: Standard Applicable

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

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

### 15.2 DFS: Standard Applicable

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

#### 15.2.1.Limit

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

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

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**Table 2:Applicability of DFS requirements during normal operation**

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

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

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

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

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Table 4: DFS Response requirement values

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

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

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

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

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

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**Table 5: Radar Test Waveforms**
**Short Pulse Radar**

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

**Long Pulse Radar**

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

**Frequency Hopping Radar**

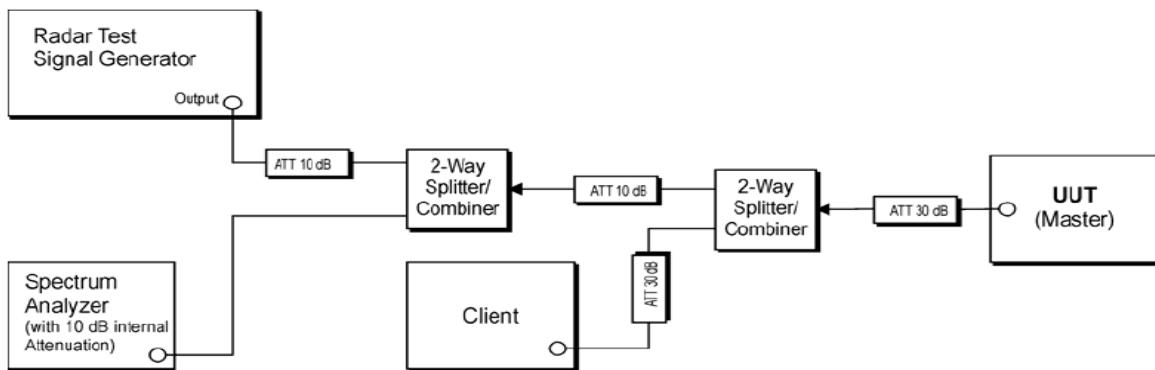
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

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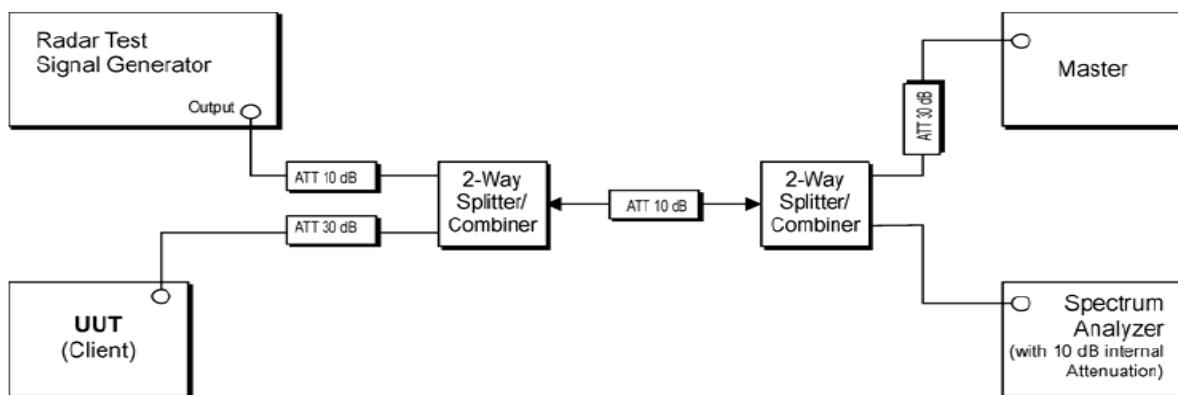
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## 15.2.2. Test Setup

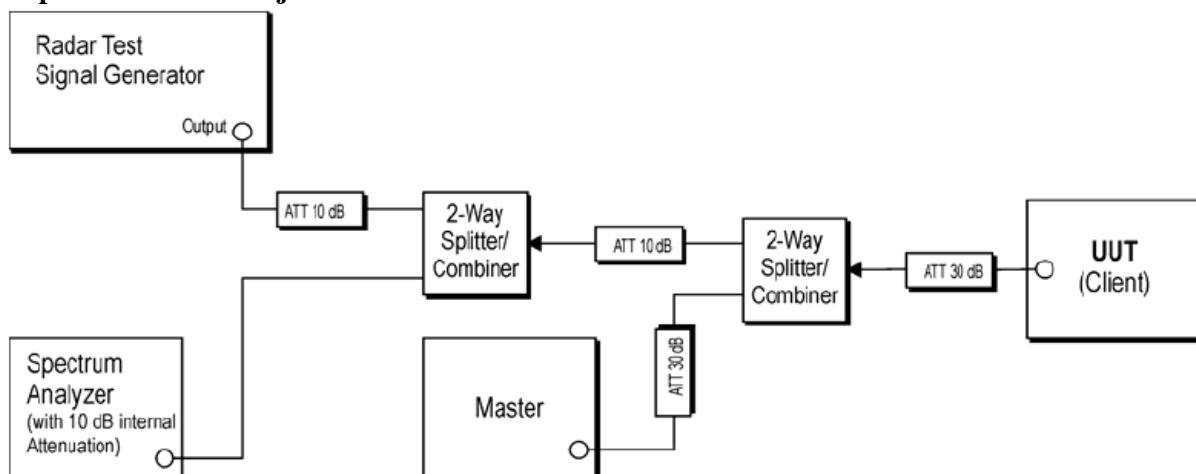
### Setup for Master with injection at the Master



### Setup for Client with injection at the Master



### Setup for Client with injection at the Client



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### 15.2.3. Test Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Mini-Circuit	ZFSC-2-10G	001	07/05/2010	07/04/2011
Splitter	Mini-Circuit	ZFSC-2-10G	002	07/05/2010	07/04/2011
Splitter	Agilent	POWER DIVIDER	51818	07/05/2010	07/04/2011
Splitter	Agilent	POWER DIVIDER	51820	07/05/2010	07/04/2011
Access point	CISCO	AIR-AP1252 G-A-K9	FTX122091Y2 FCC ID: LDK102062	N/A	N/A
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45093613	07/08/2010	07/07/2011

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#### 15.2.4. Description of EUT :

**EUT of operates over the 5250-5350MHz and 5470-5725MHz ranges. EUT is slave device it dose not have radar detection. EUT has a gain of 3dBi in the 5GHz Band.**

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

**The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64+6=-58,the master FCC ID= LDK102061**

#### 15.2.5. Measurement procedure:

**Test results demonstrating an associated client link is established with the master on a test frequency;**

**The client and DFS-certified master device are associated, and a movie can be streamed as specified in the DFS Order for a non-occupancy period test;**

**The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear;**

**An analyzer plot that contains a single 30-minute sweep on the original channel.**

#### 15.2.6. Test results

**Refer to next page for plots.**

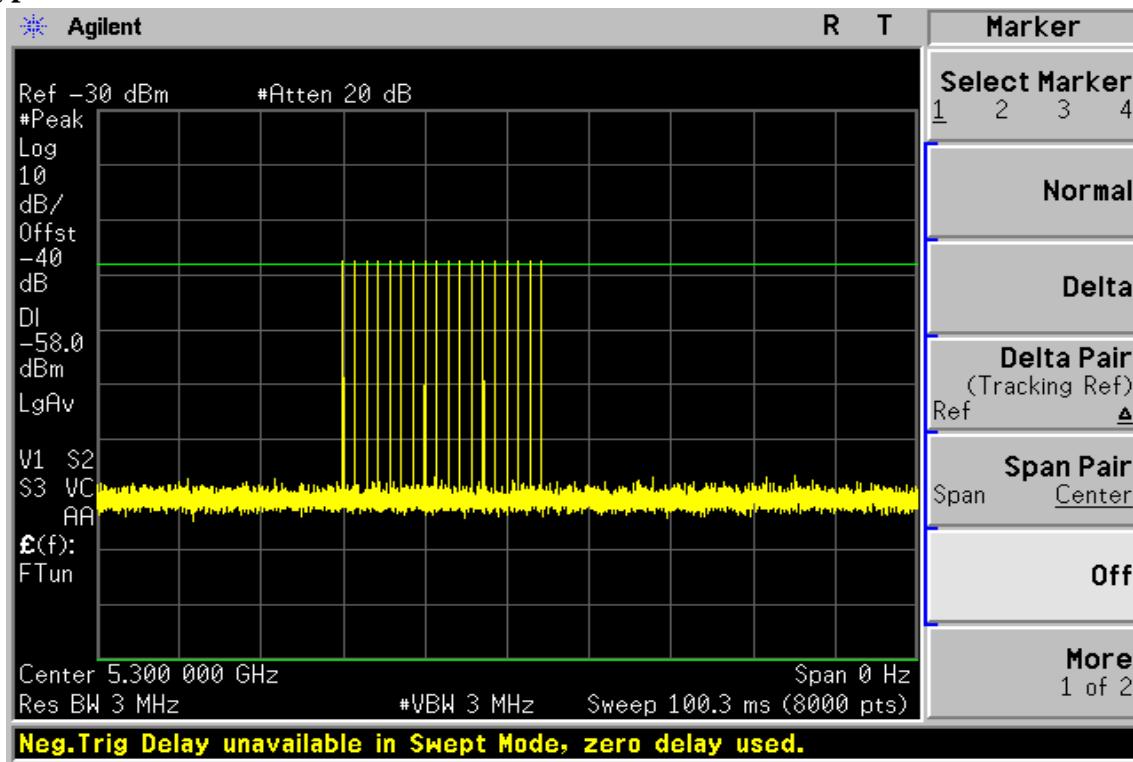
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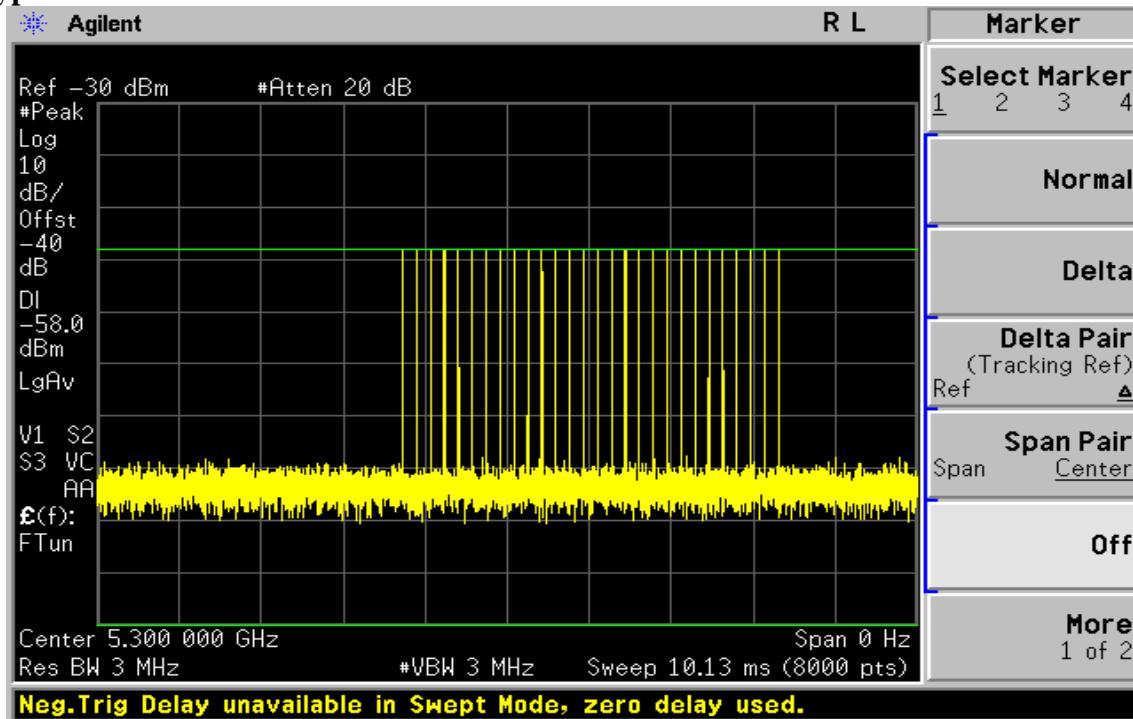
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## Calibration plots for each of the required radar waveforms

### Radar type 1



### Radar type 2

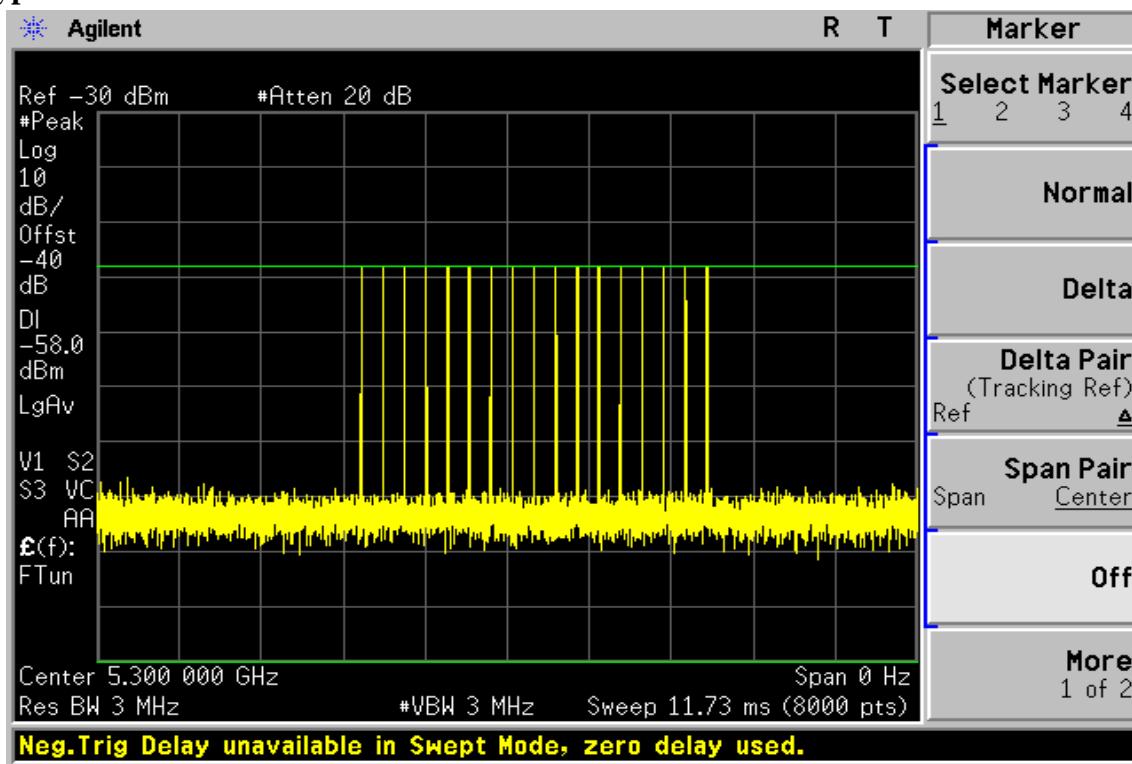


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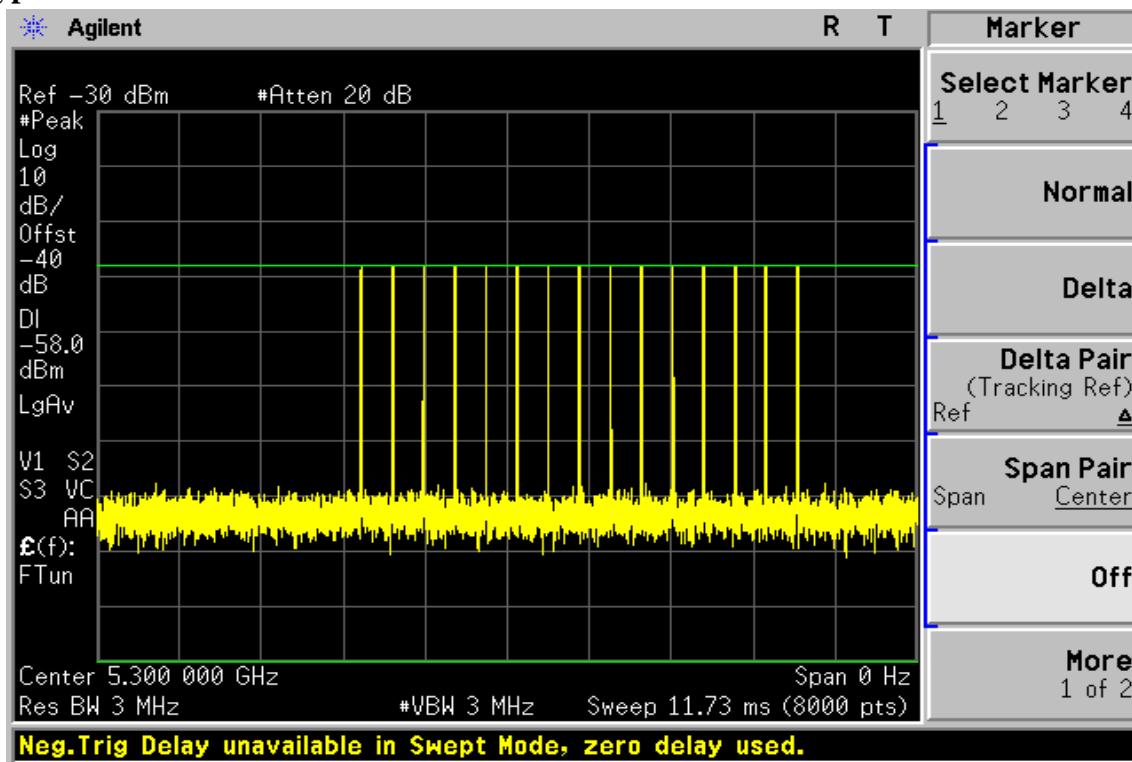
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### Radar type 3



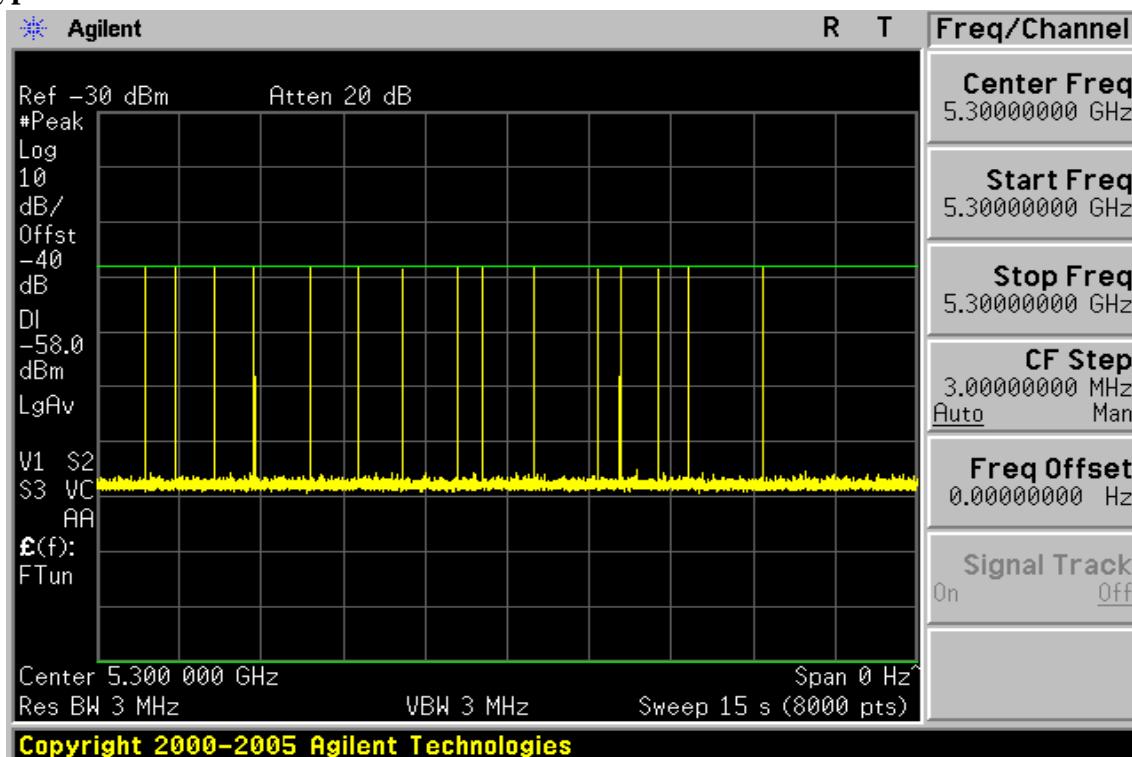
### Radar type 4



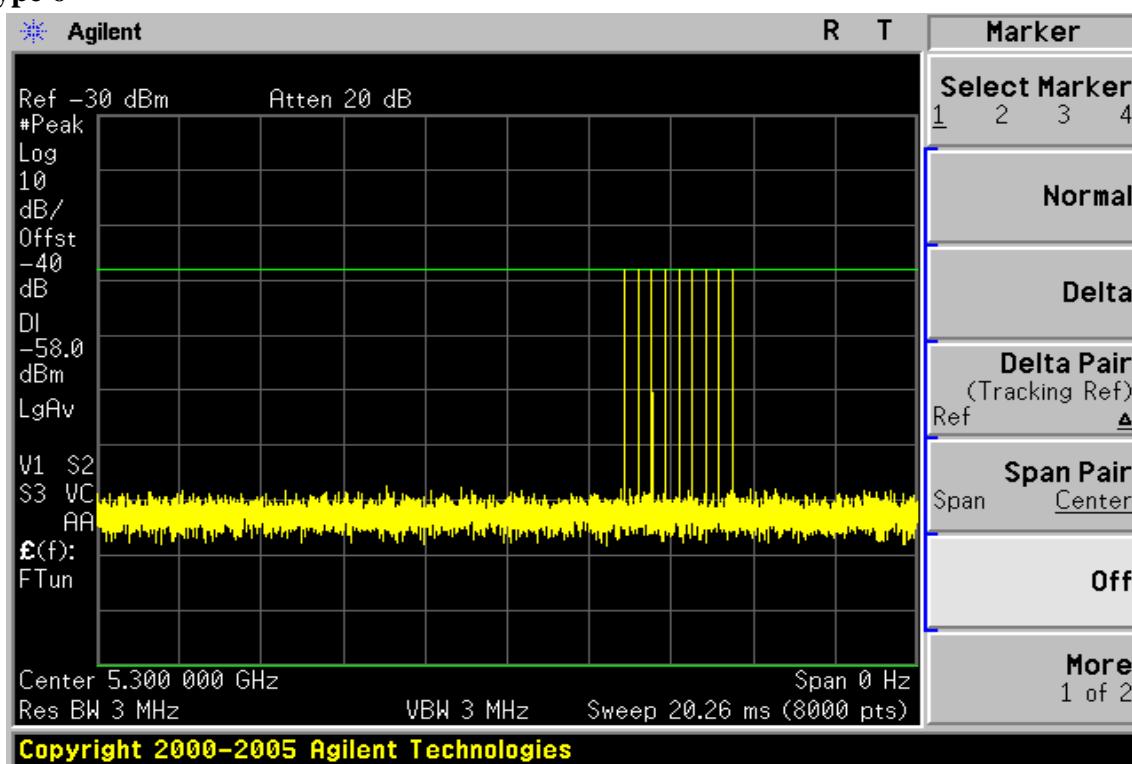
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### Radar type 5



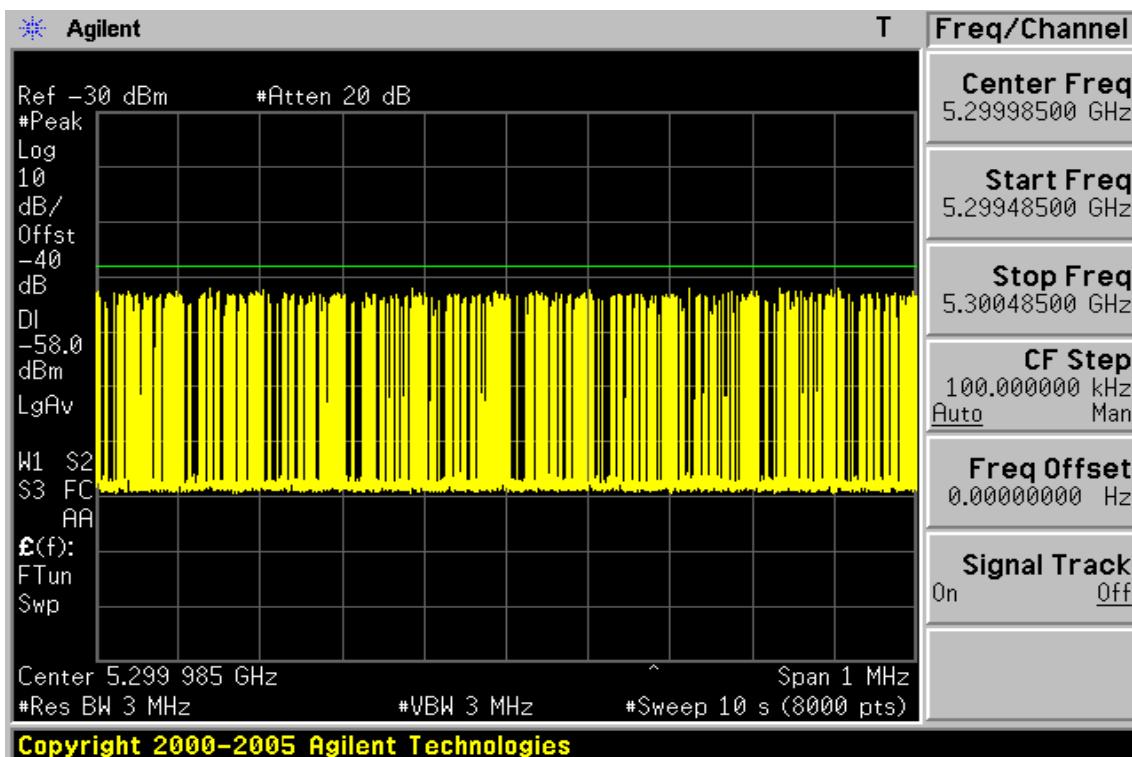
### Radar type 6



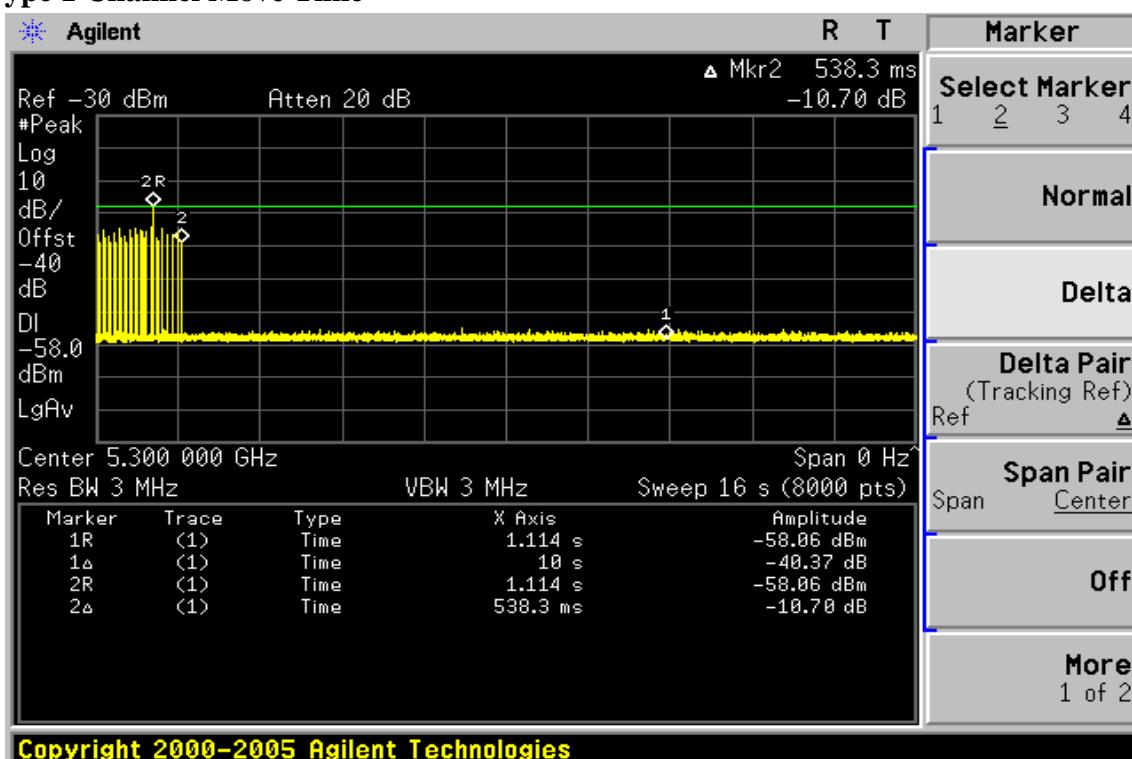
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## WLAN traffic



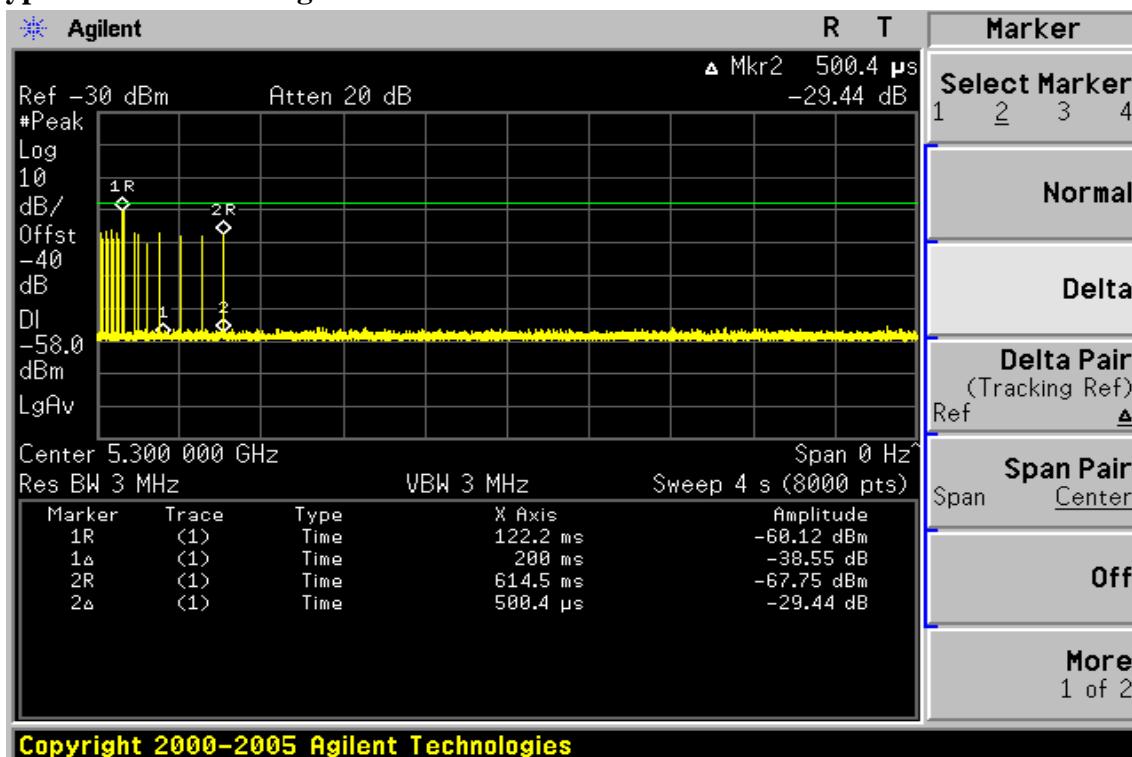
## Radar Type 1 Channel Move Time



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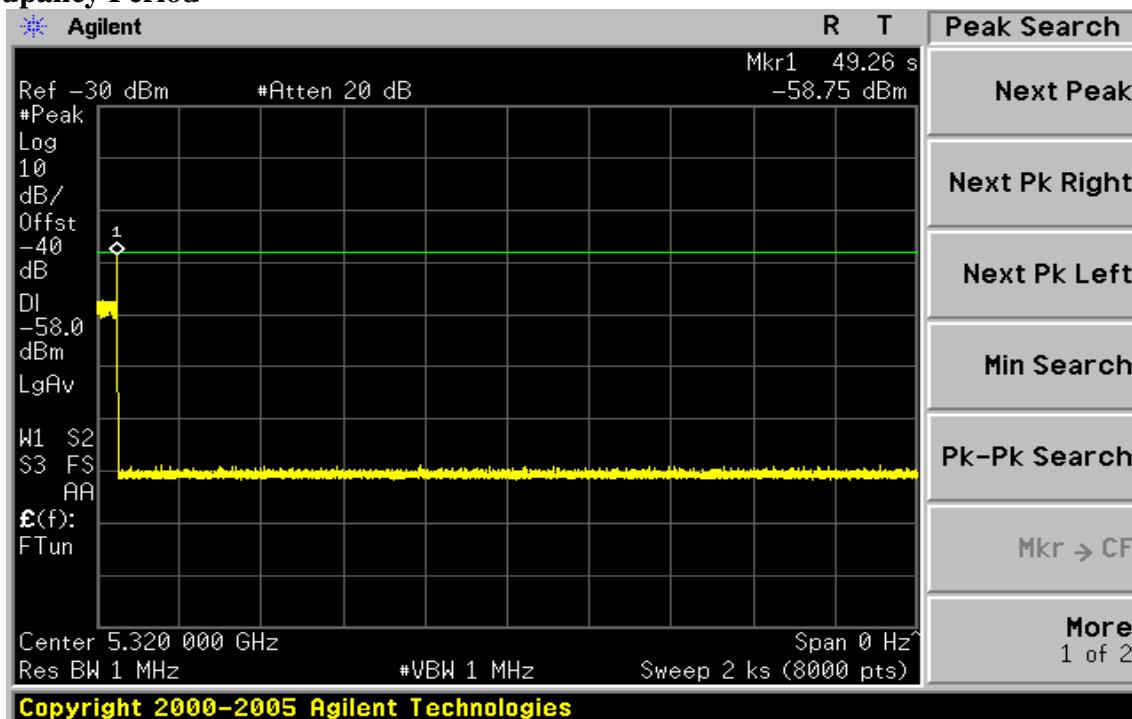
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## Radar Type 1 Channel Closing Transmission Time



500.2μs \* 3=1.5ms

## Non-occupancy Period



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