

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART E REQUIREMENT
INDUSTRY CANADA RSS-210**

OF

Product Name: Wi-Fi Dongle
Brand Name: LG
Model Name: AN-WF100
Model Different: N/A
FCC ID: BEJ-WF100
IC: 2703H-WF100
Report No.: ER/2009/A0040
Issue Date: Nov. 30, 2009
FCC Rule Part: §15.407
IC Rule Part: RSS-210 issue 7:2007, Annex 9
Prepared for: LG Electronics USA
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07632
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: LG Electronics USA
1000 Sylvan Avenue Englewood Cliffs, Nj 07632

Product Name: Wi-Fi Dongle

Brand Name: LG

FCC ID: BEJ-WF100

IC: 2703H-WF100

Model No.: AN-WF100

Model Difference: N/A

File Number: ER/2009/A0040

Date of test: Oct. 19, 2009 ~ Nov. 25, 2009

Date of EUT Received: Oct. 19, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 and RSS-210 issue 7: 2007 Annex 9. The test results of this report relate only to the tested sample identified in this report.

Test By:



Date:

Nov. 30, 2009

Jim Chan / Supervisor

Prepared By:



Date:

Nov. 30, 2009

Gigi Yeh / Clerk

Approved By:



Date:

Nov. 30, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Nov. 30, 2009	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	Wi-Fi Dongle
Brand Name:	LG
Model Name:	AN-WF100
Model Difference:	N/A
Power Supply:	5Vdc form USB port

WLAN: 802.11 a/b/g/n (2TX / 2RX)

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 16.70dBm g : 14.28dBm	DSSS, OFDM	b : 13M1G1D g : 16M5G1D
11n	HT20 2412-2462	11	n : 13.65 dBm	OFDM	17M6G1D
	HT40 2422-2452	9			36M1DG1D

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Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11a	5180-5240	4	a : 14.03dBm	OFDM	16M5G1D
	HT20 5180-5240	4			17M6G1D
	HT40 5190-5230	2			36M2G1D
11a	5745-5825	5	a : 14.29 dBm	OFDM	17M6G1D
	HT20 5745-5825	5			17M6G1D
	HT40 5755-5795	2			36M1G1D
Antenna Designation			2.4G: Antenna 1: -0.22dBi / Antenna 2: -0.50 dBi 5G: Antenna 1: 5.53dBi / Antenna 2: 4.18 dBi		
Modulation type			CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:			802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 – 300Mbps		

The 2.4G max antenna gain is -0.22dBi which was choosing for Radiated Spurious Emission test.
The 5G max antenna gain is 5.53dBi which was choosing for Radiated Spurious Emission test.
The EUT is compliance with IEEE 802.11 a/b/g /n Standard.
This report applies for frequency bands 5180 MHz– 5240 MHz

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

This submittal(s) (test report) is intended for **FCC ID: BEJ-WF100** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and **IC: 2703H-WF100** filing to comply with Industry Canada RSS-210 issue 7: 2007 Annex 9. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007.. 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-1.

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

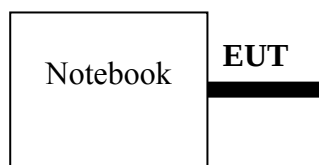


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	Notebook	IBM	T43	L3LHHN6
2.	WiFi Software	N/A	WLAN eMapi	N/A

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3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207 RSS-Gen §7.2.2	AC Power Line Conducted Emission	Compliant
§15.407(a) RSS 210 A9.2 RSS-Gen §4.4.1	26 Db and 99% Emission Band-width	Compliant
§15.407(a) RSS 210 A9.2(1)	Peak Output Power Measurement	Compliant
§15.407(a) RSS 210 A9.2(1)	Peak Power Spectral Density Measurement	Compliant
15.407(a)(6)	Peak Excursion Measurement	Compliant
§15.407(b) RSS 210 A9.3	Undesirable Emission – Conducted Measurement	Compliant
§15.407(b) RSS 210 A9.3	Undesirable Emission – Radiated Measurement	Compliant
§15.407© RSS 210 A9.5(4)	Transmission in case of Absence of Information	Compliant
§15.407(g); RSS 210 A9.5(5)	Frequency Stability	Compliant
§15.407(d) RSS-210 issue 7, §A8.4	Antenna Requirement	Compliant
MPE	Maximum Permissible Exposure	Compliant

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 and receiving mode is programmed.

a mode: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz) with 6Mbps data rate are chosen for full testing.

a /n HT 20 mode: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz) with 6.5Mbps data rate are chosen for full testing

a/n HT 40 mode: Channel lowest(5190MHz) 、Highest(5230MHz) 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 and RSS-Gen §7.2.2, 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	09/16/2009	09/15/2010
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2009	02/01/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2009	02/01/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2009	10/29/2010

5.5. Measurement Result

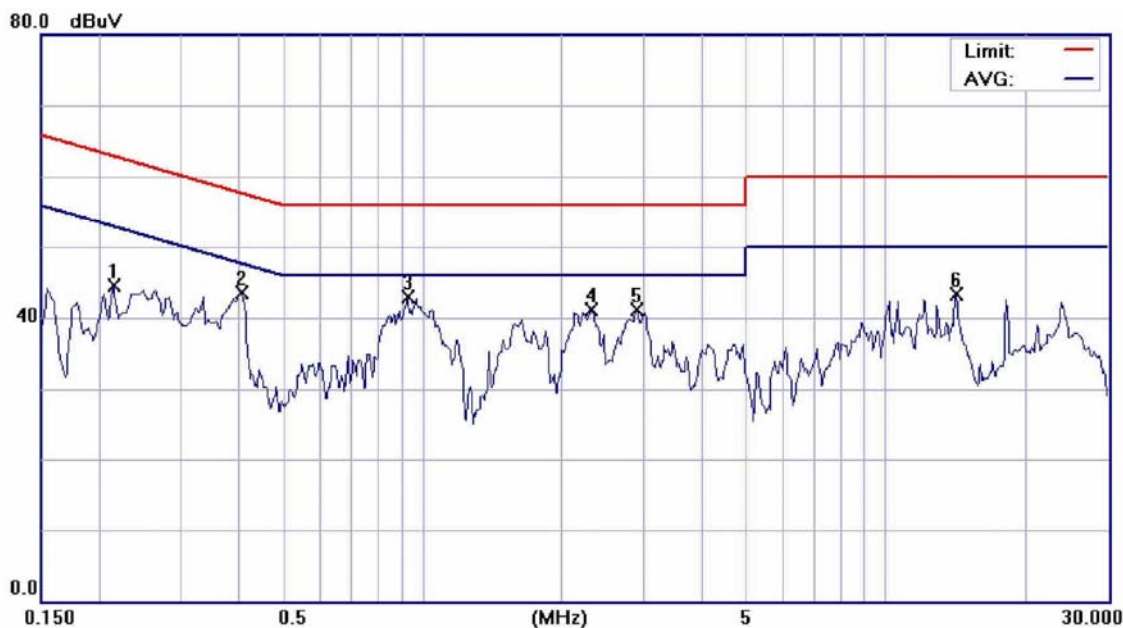
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WLAN Link			Test Date:	Nov. 25, 2009
Temperature:	23 °C	Humidity:	58 %	Test By:	Jim



Site SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B

EUT: Wi-Fi Dongle

M/N: AN-WF100

Note: Operation mode

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

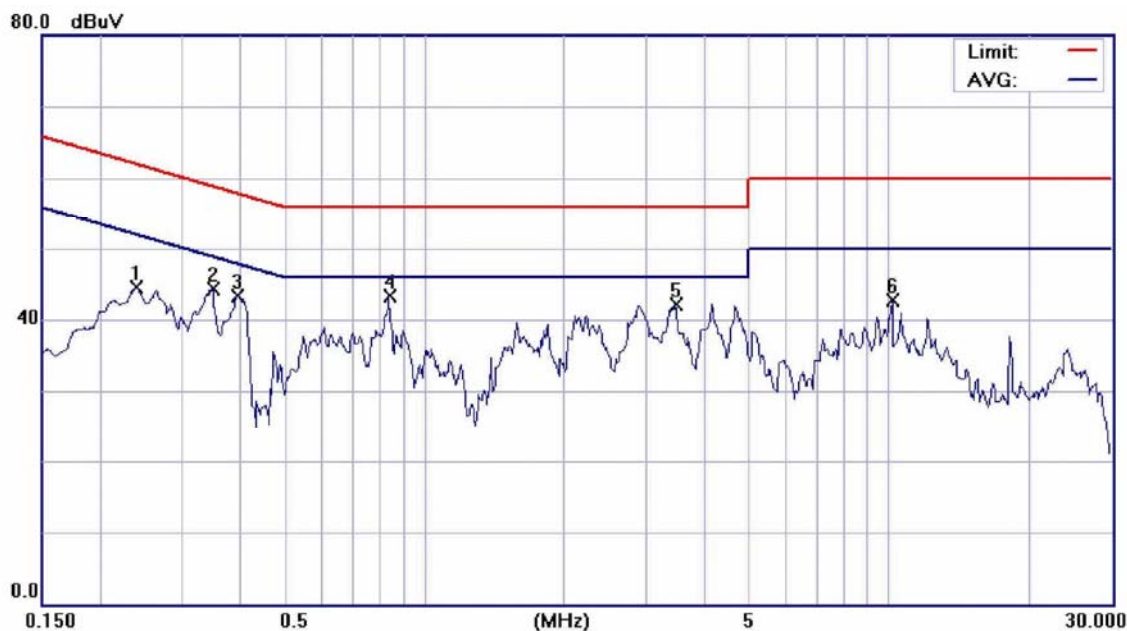
Humidity: 58 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2150	44.37	0.12	44.49	63.01	-18.52	peak	
2		0.4050	43.38	0.08	43.46	57.75	-14.29	peak	
3	*	0.9300	42.90	0.09	42.99	56.00	-13.01	peak	
4		2.3200	40.88	0.13	41.01	56.00	-14.99	peak	
5		2.8900	40.97	0.14	41.11	56.00	-14.89	peak	
6		14.2000	42.99	0.40	43.39	60.00	-16.61	peak	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Wi-Fi Dongle

Distance:

Air Pressure: hpa

M/N: AN-WF100

Note: Operation mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2400	44.46	0.13	44.59	62.10	-17.51	peak	
2		0.3500	44.23	0.12	44.35	58.96	-14.61	peak	
3		0.3950	43.18	0.11	43.29	57.96	-14.67	peak	
4	*	0.8400	43.10	0.11	43.21	56.00	-12.79	peak	
5		3.4800	42.03	0.16	42.19	56.00	-13.81	peak	
6		10.2000	42.23	0.45	42.68	60.00	-17.32	peak	

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6. 26dB and 99% EMISSION BANDWIDTH MEASUREMENT

6.1 Standard Applicable

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

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

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

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

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 3. 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	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010

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6.4 Measurement Result

UNII

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5180	19.84	12.98	16.49
5220	19.45	12.89	16.51
5240	19.78	12.96	16.57

UNII HT20, Chain0

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5180	19.94	13.00	17.68
5220	19.94	13.00	17.67
5240	19.86	12.98	17.71

UNII HT20, Chain1

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5180	19.85	12.98	17.68
5220	19.85	12.98	17.65
5240	19.83	12.97	17.68

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UNII HT20, Combine, Chain0, Chain1

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5180	19.62	12.93	17.62
5220	23.15	13.65	17.63
5240	19.83	12.97	17.61

UNII HT40, Chain0

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5190	39.513	15.97	36.27
5230	39.05	15.92	36.22

UNII HT40, Chain1

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5190	39.71	15.99	36.22
5230	40.05	16.03	36.16

UNII HT40, Combine, Chain0, Chain1

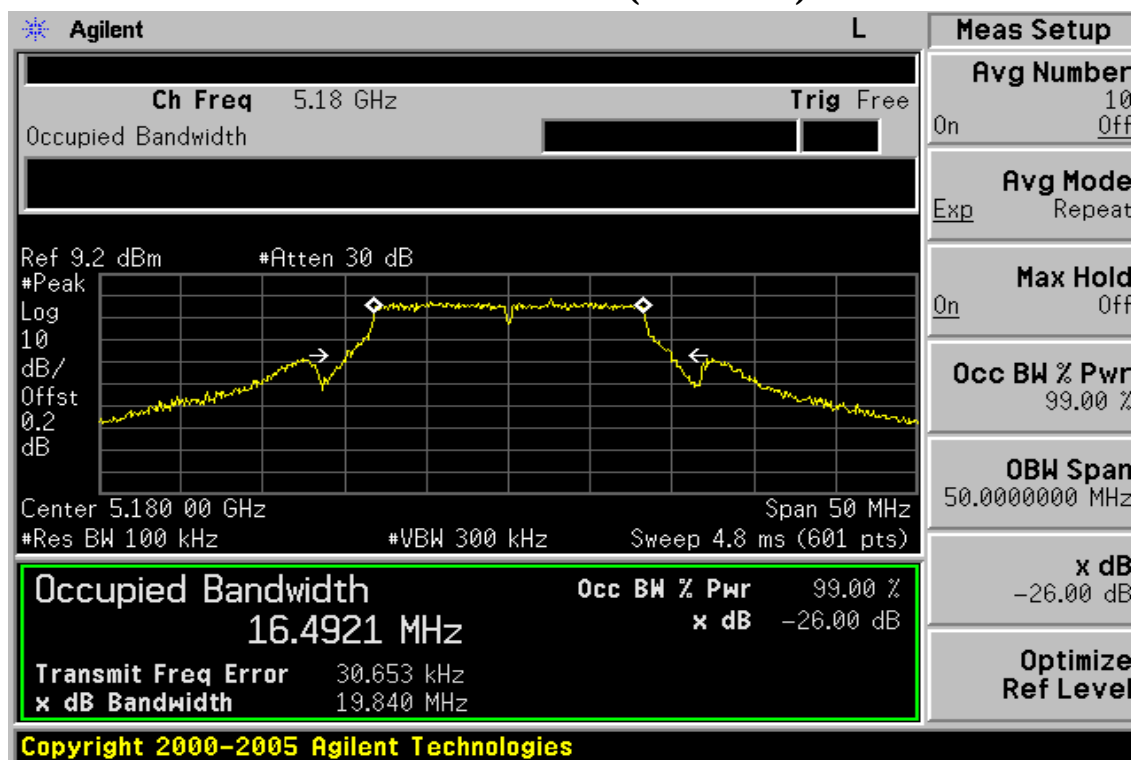
Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)	99% Bandwidth (MHz)
5190	39.37	15.95	35.95
5230	39.25	15.94	35.98

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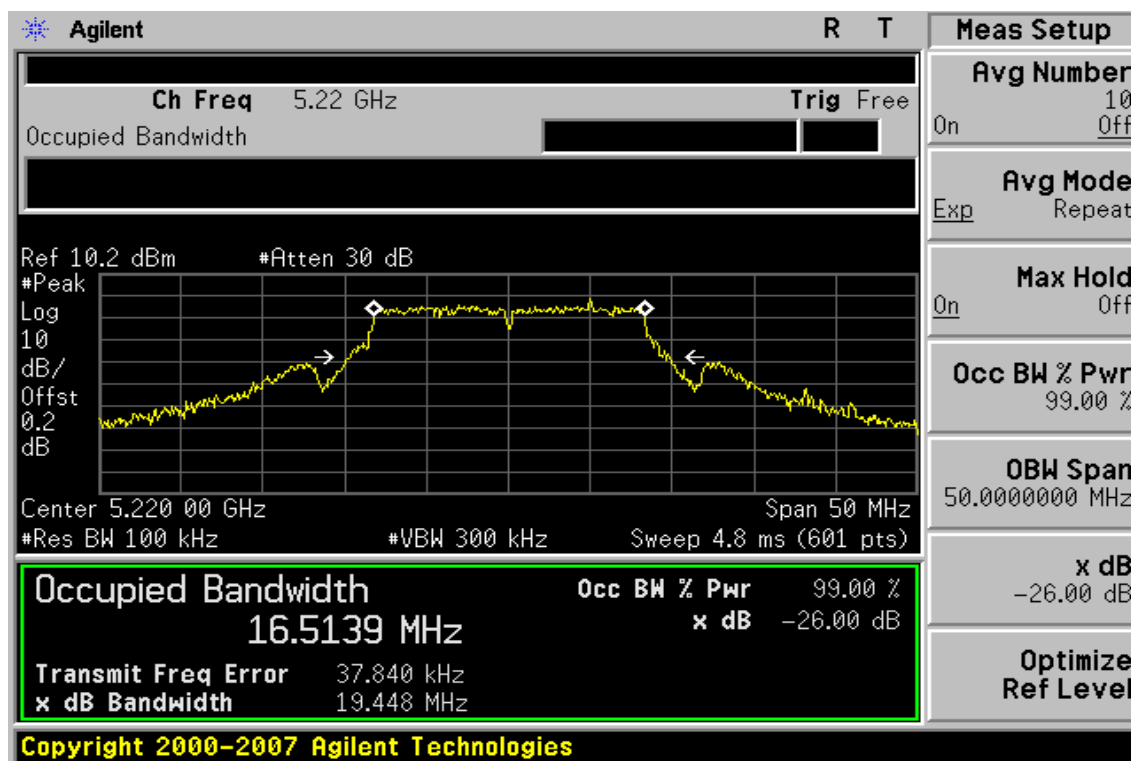
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UNII

26dB / 99% Band Width Test Data CH-Low (5180MHz)



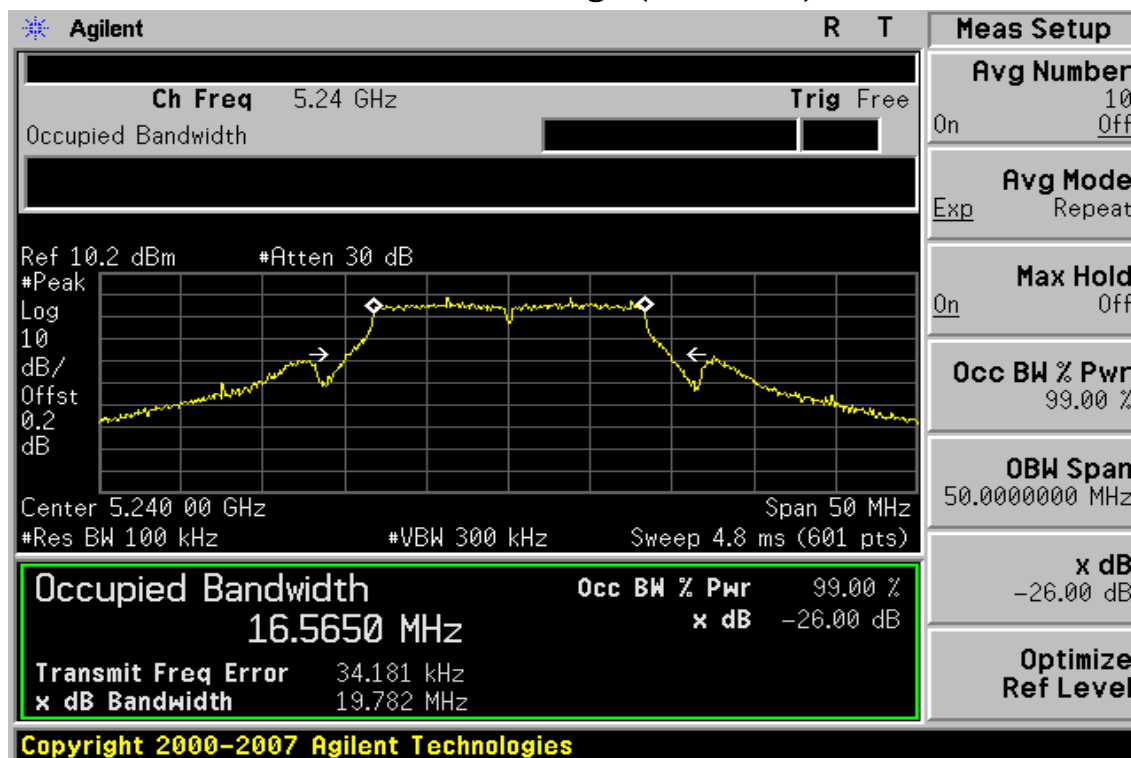
26dB / 99% Band Width Test Data CH-Mid (5220MHz)



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26dB / 99% Band Width Test Data CH-High (5240MHz)

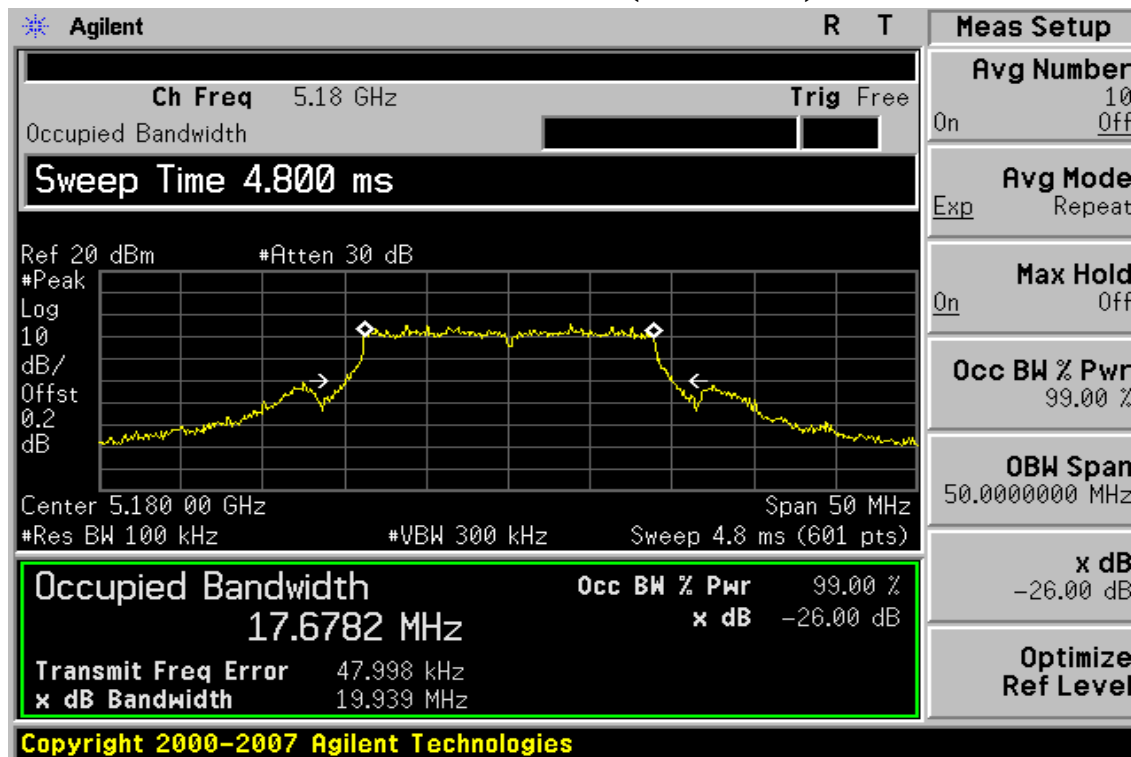


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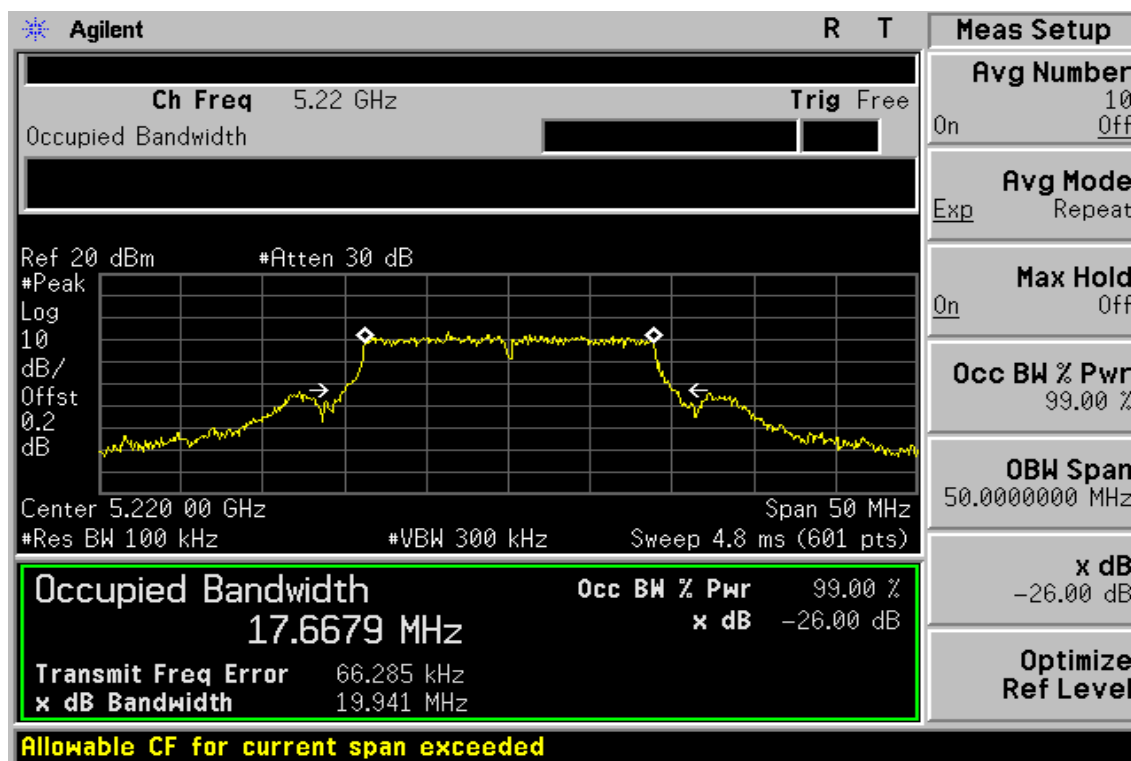
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UNII, HT 20, Chain 0

26dB / 99% Band Width Test Data CH-Low (5180 MHz)



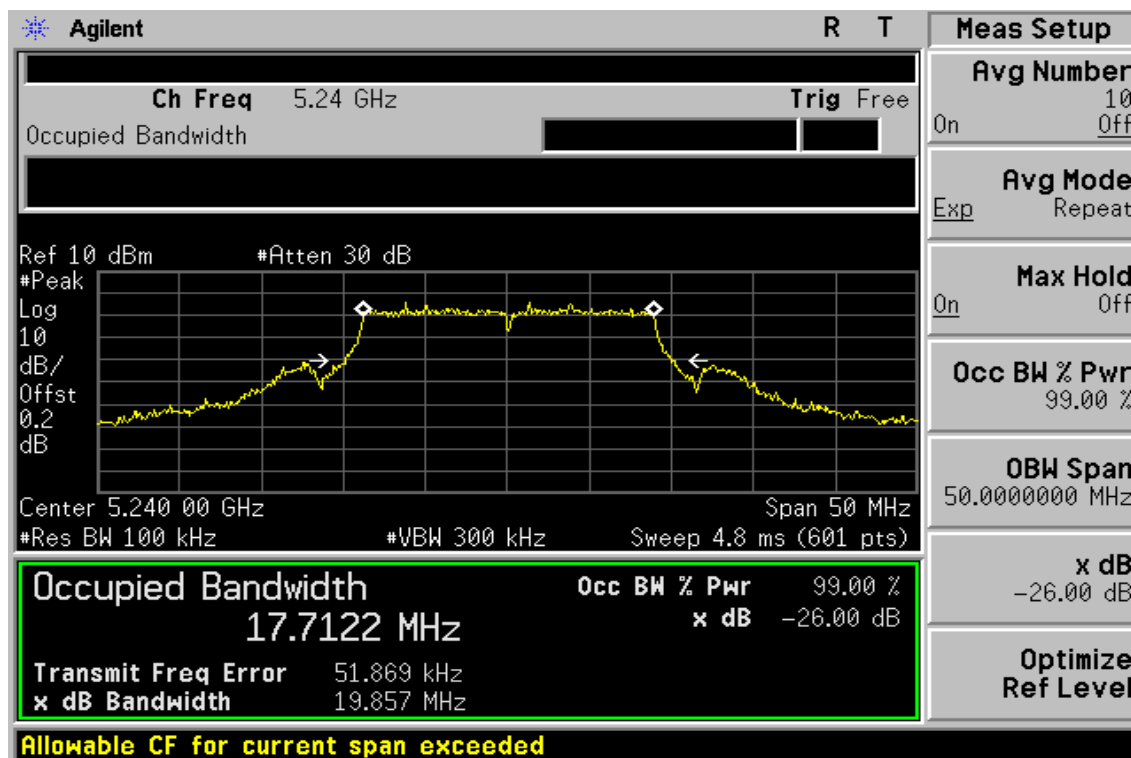
26dB / 99% Band Width Test Data CH-Mid (5220 MHz)



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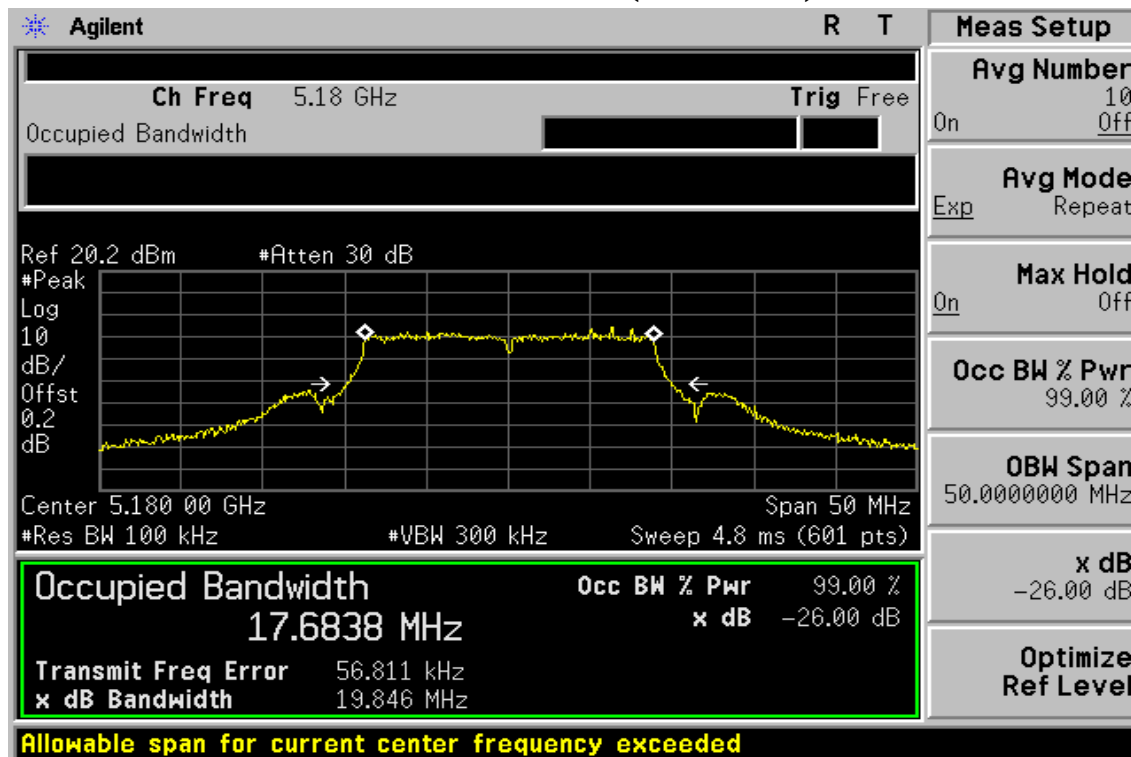
26dB / 99% Band Width Test Data CH-High (5240 MHz)



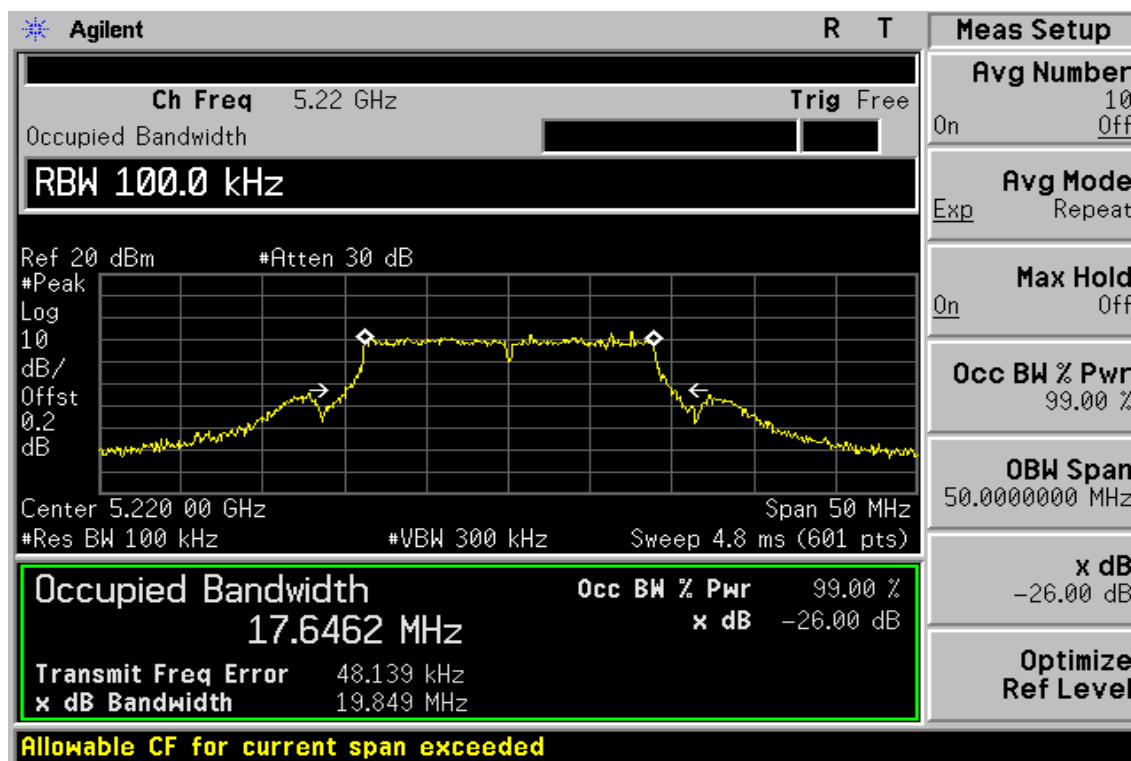
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UNII, HT 20, Chain 1 26dB / 99% Band Width Test Data CH-Low (5180 MHz)



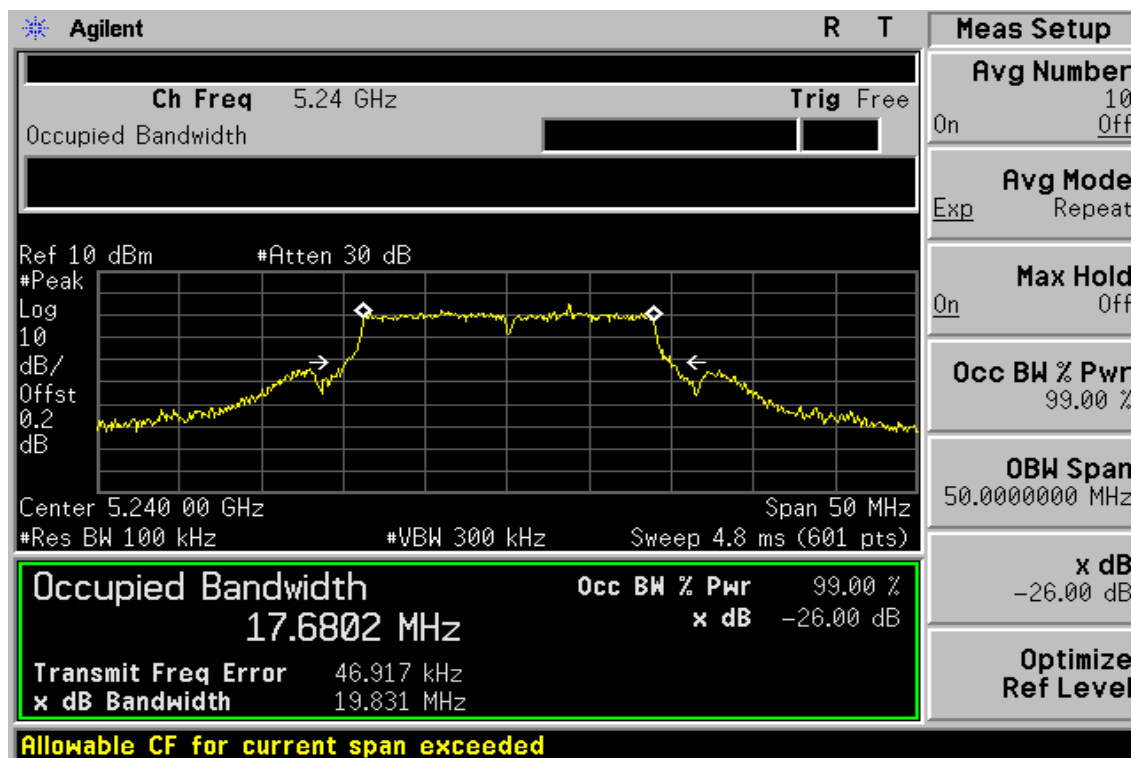
26dB / 99% Band Width Test Data CH-Mid (5220 MHz)



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26dB / 99% Band Width Test Data CH-High (5240 MHz)

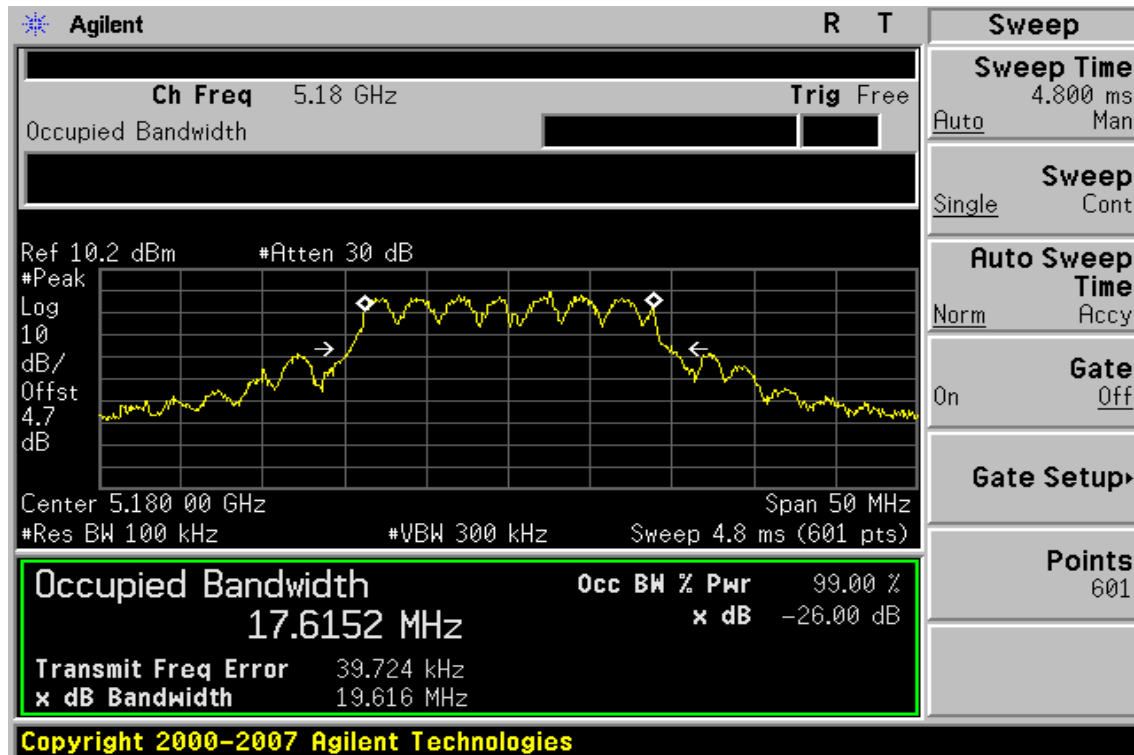


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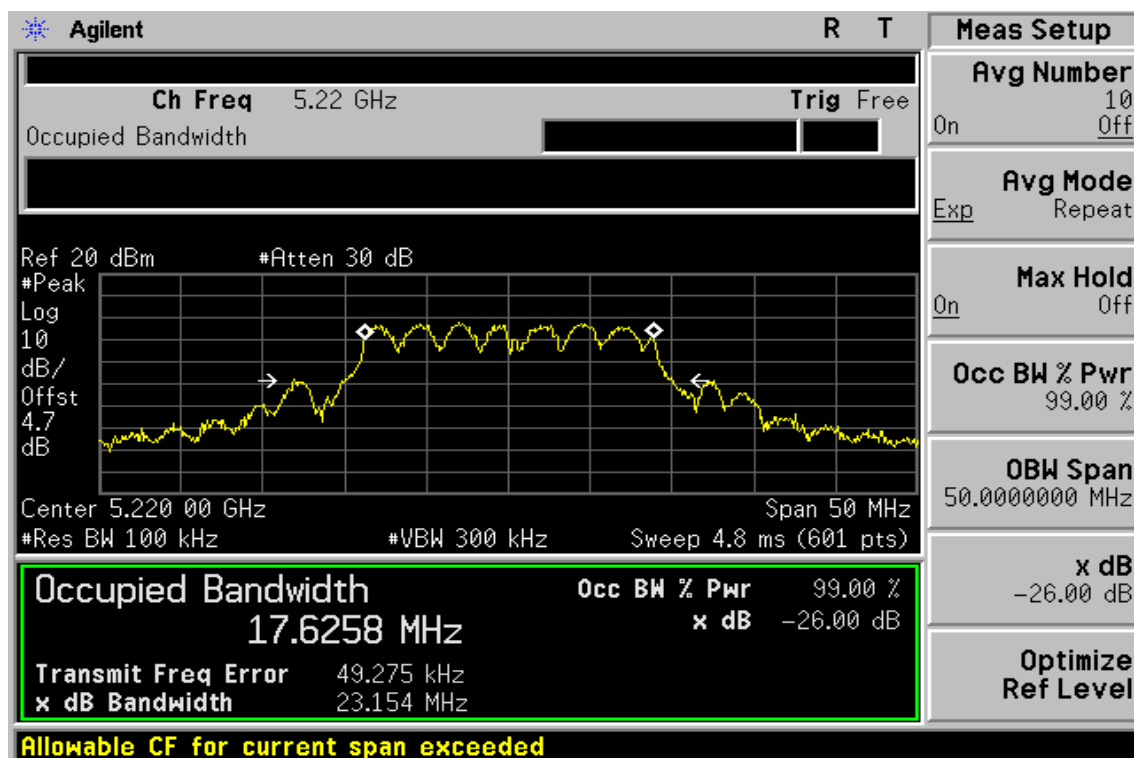
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UNII, HT 20, Comp

26dB / 99% Band Width Test Data CH-Low (5180 MHz)



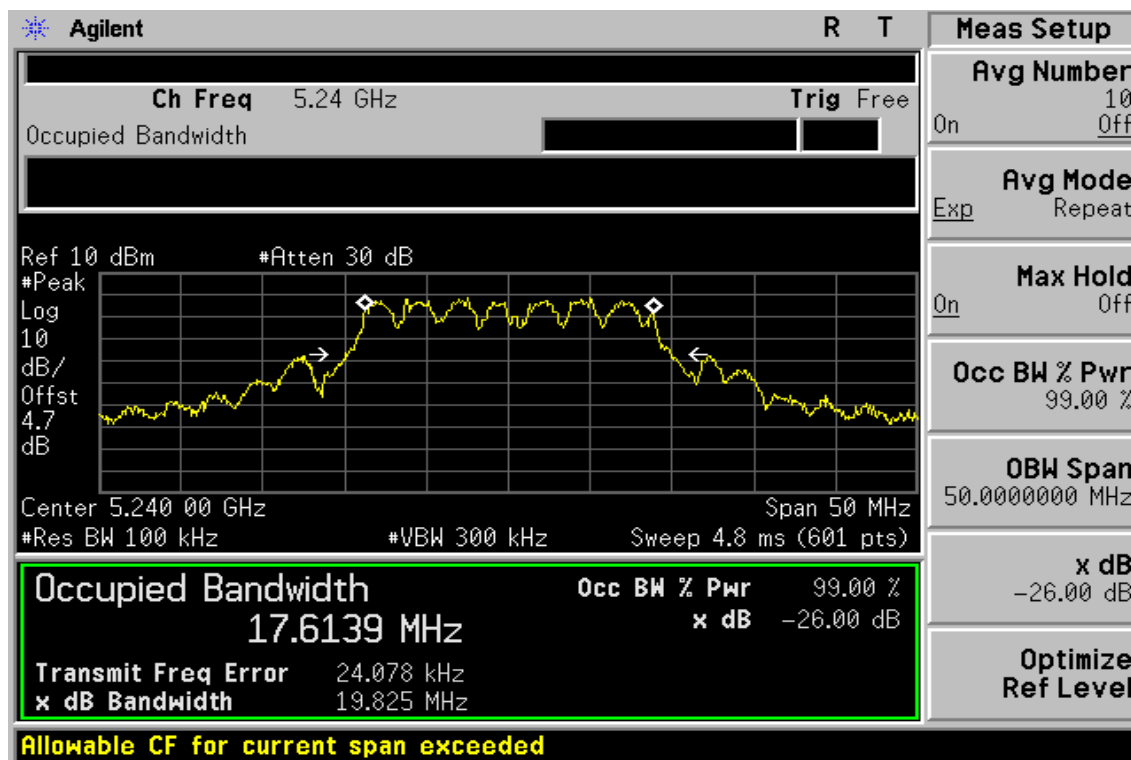
26dB / 99% Band Width Test Data CH-Mid (5220 MHz)



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26dB / 99% Band Width Test Data CH-High (5240 MHz)

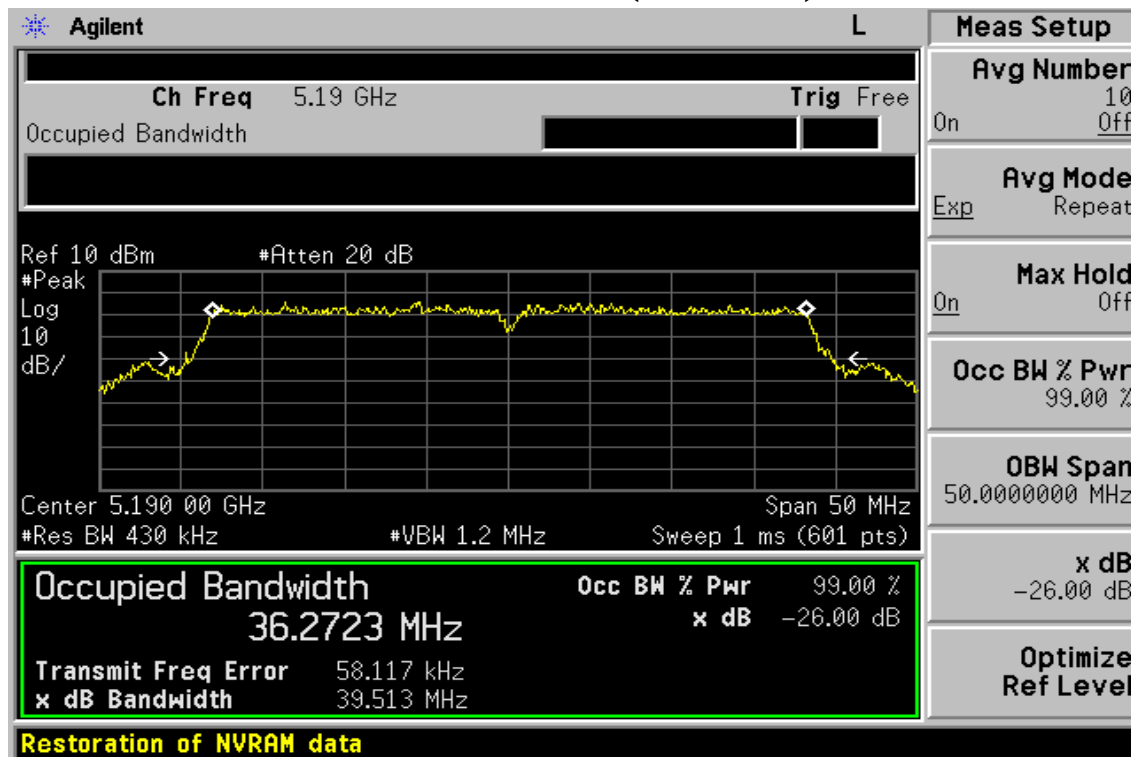


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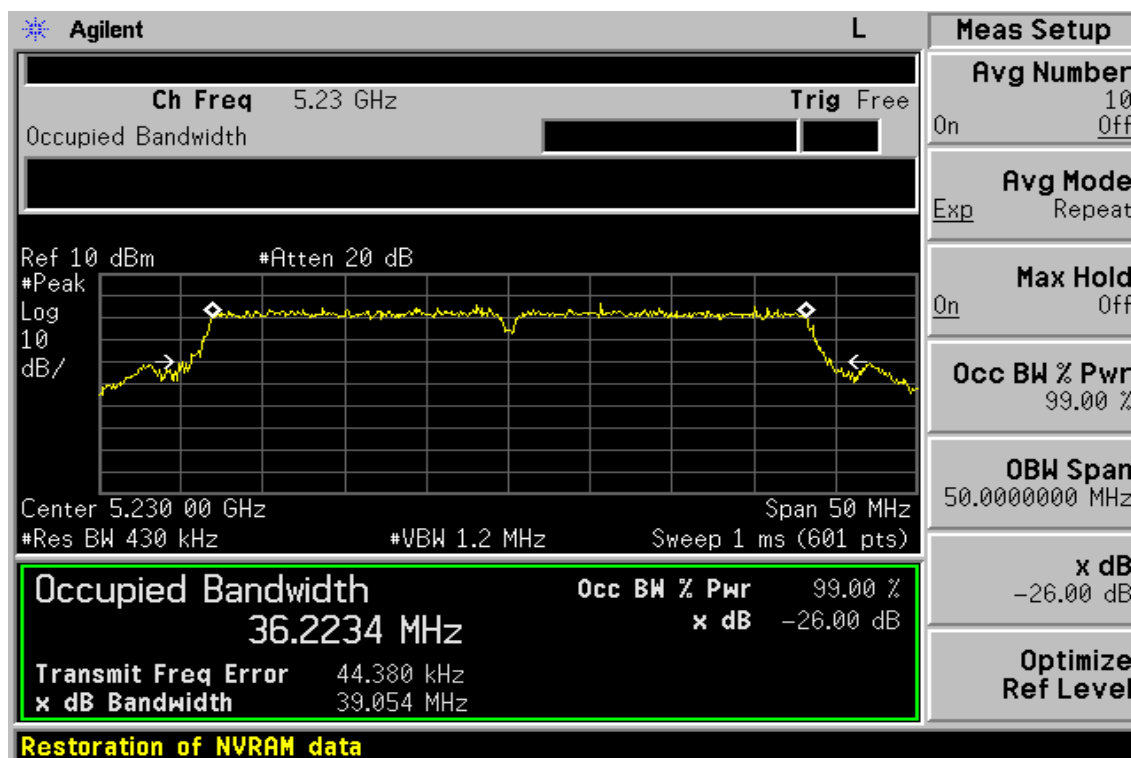
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UNII, HT 40, Chain 0

26dB / 99% Band Width Test Data CH-Low (5190 MHz)



26dB / 99% Band Width Test Data CH-High (5230 MHz)

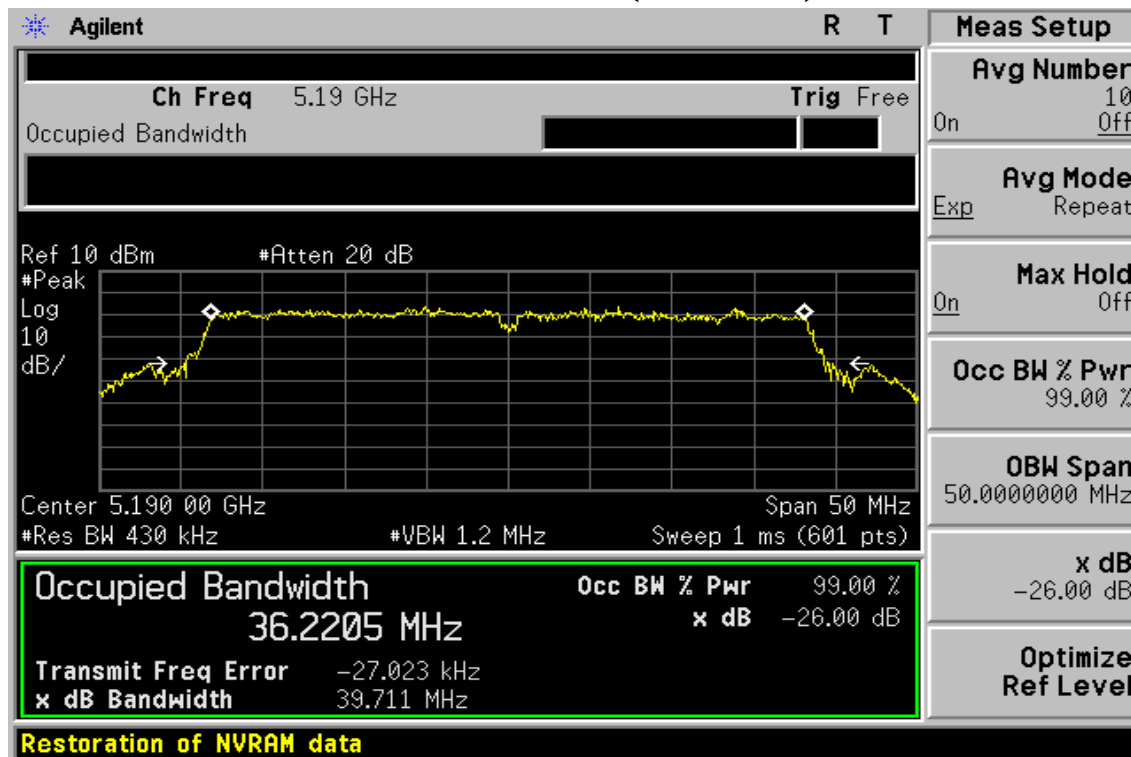


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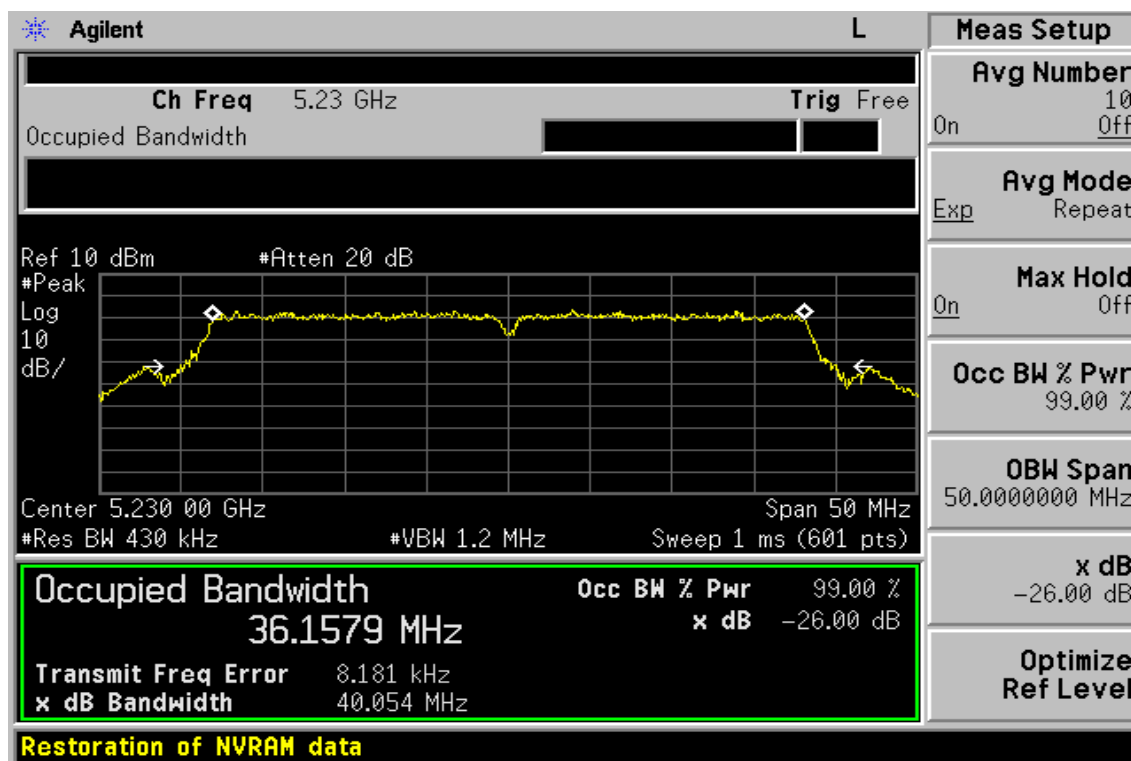
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UNII, HT 40, Chain 1

26dB / 99% Band Width Test Data CH-Low (5190 MHz)



26dB / 99% Band Width Test Data CH-High (5230 MHz)

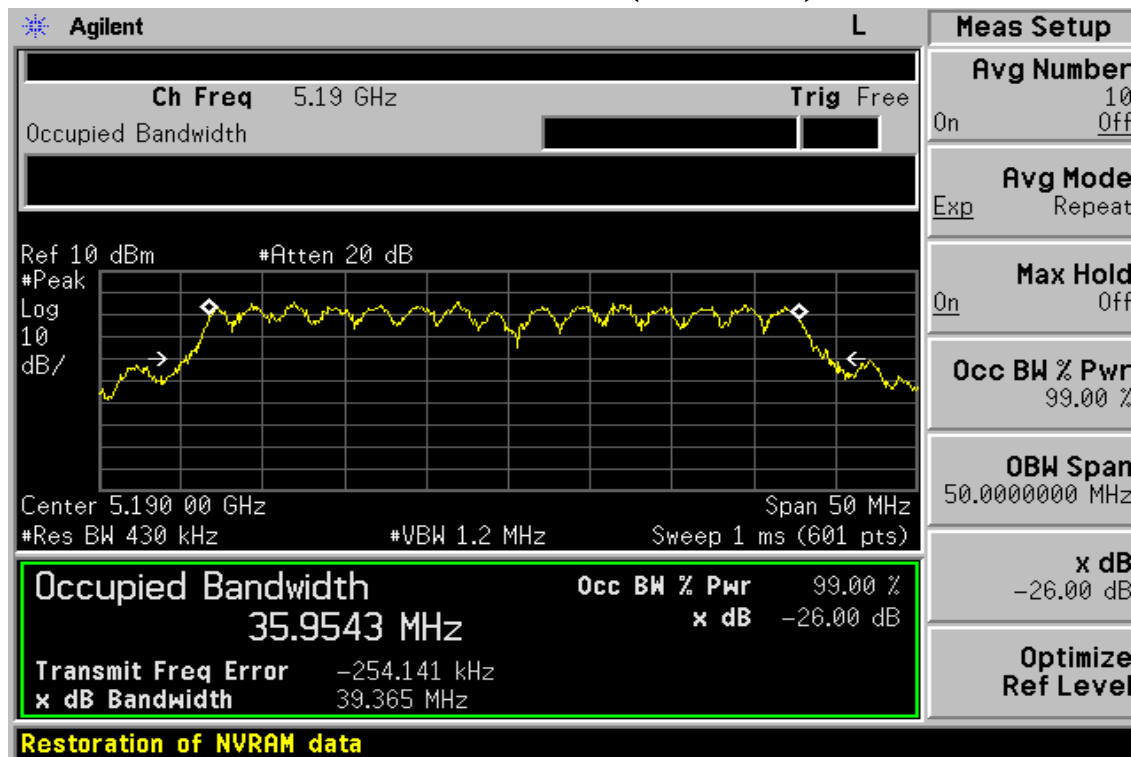


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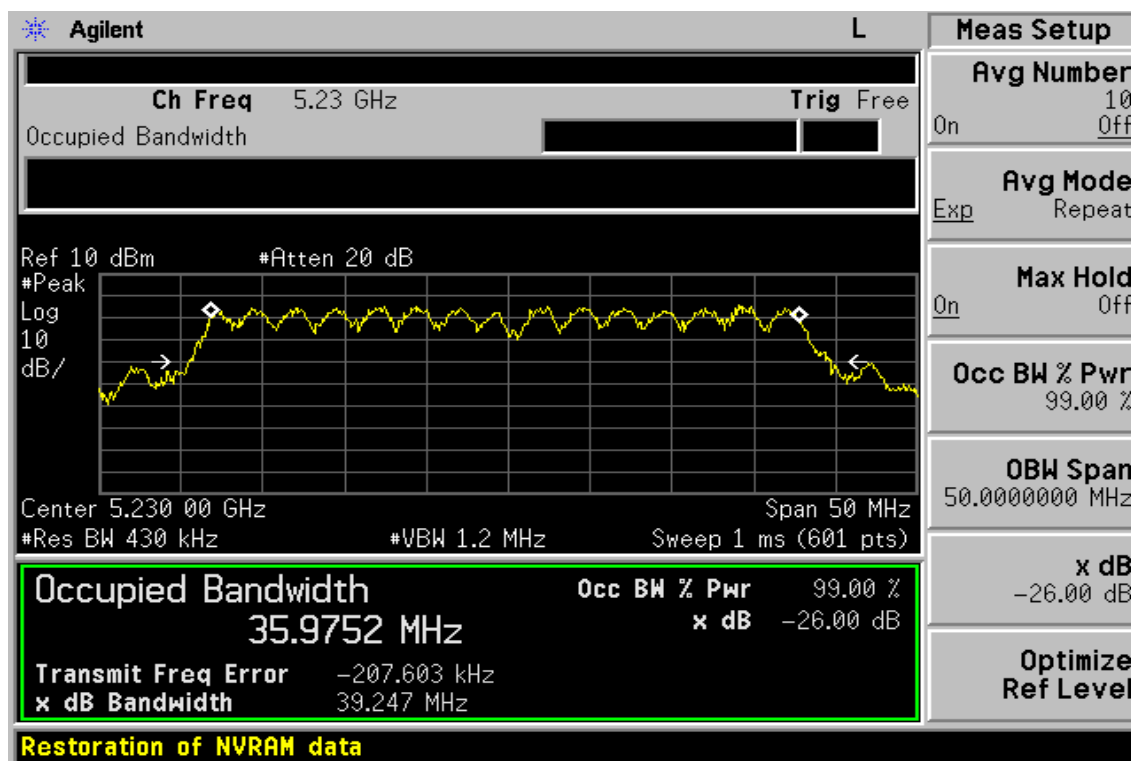
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UNII, HT 40, Comp

26dB / 99% Band Width Test Data CH-Low (5190 MHz)



26dB / 99% Band Width Test Data CH-High (5230 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 $17 \text{ dBm} + 10\log B$.

According to RSS-210 A9.2

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

$17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

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

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

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- (i) -13 dB(W/MHz) for $0 \leq \theta < 80$
- (ii) $-13 - 0.716 (\theta - 8)$ dB(W/MHz) for $80 \leq \theta < 40$
- (iii) $-35.9 - 1.22 (\theta - 40)$ dB(W/MHz) for $40 \leq \theta \leq 45$
- (iv) -42 dB(W/MHz) for $\theta > 45$

3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or

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

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

where B is the 26dB emission bandwidth in MHz.

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.

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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	04/27/2009	04/27/2010
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2009	07/03/2010
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2009	11/08/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S6W5	N/A	01/05/2009	01/04/2010

7.4 Measurement Result

UNII

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5180	14.03	17.00	-2.97
5220	14.00	17.00	-3.00
5240	14.03	17.00	-2.97

UNII HT20 , Chain0

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5180	10.27	17.00	-6.73
5220	10.04	17.00	-6.96
5240	10.12	17.00	-6.88

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UNII HT20, Chain1

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5180	9.80	17.00	-7.20
5220	9.56	17.00	-7.44
5240	9.55	17.00	-7.45

UNII HT20 Combine, Chain0, Chain1

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5180	13.66	17.00	-3.34
5220	13.52	17.00	-3.48
5240	13.52	17.00	-3.48

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UNII HT40 , Chain0

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5190	11.09	17.00	-5.91
5230	10.20	17.00	-6.80

UNII HT40 , Chain1

Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5190	9.17	17.00	-7.83
5230	8.61	17.00	-8.39

UNII HT40 Combine, Chain0, Chain1

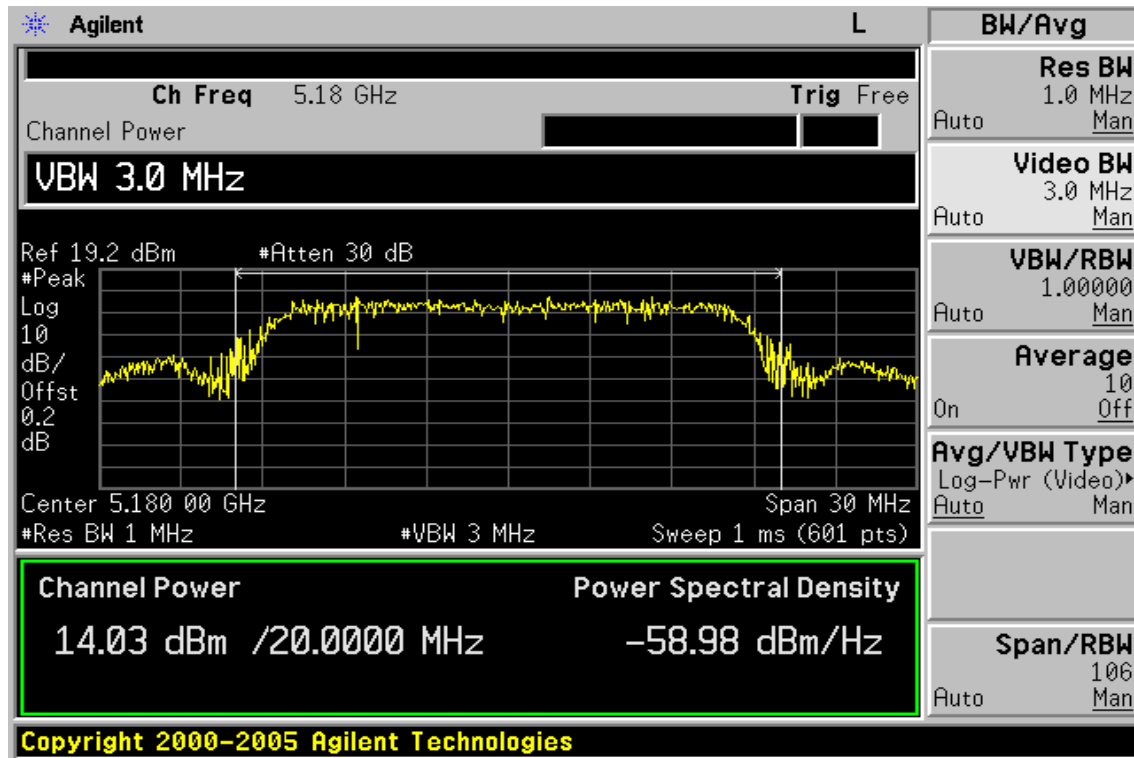
Frequency (MHz)	ACP Power (dBm)	Limit (dBm)	Margin (dB)
5190	13.60	17.00	-3.40
5230	13.52	17.00	-3.48

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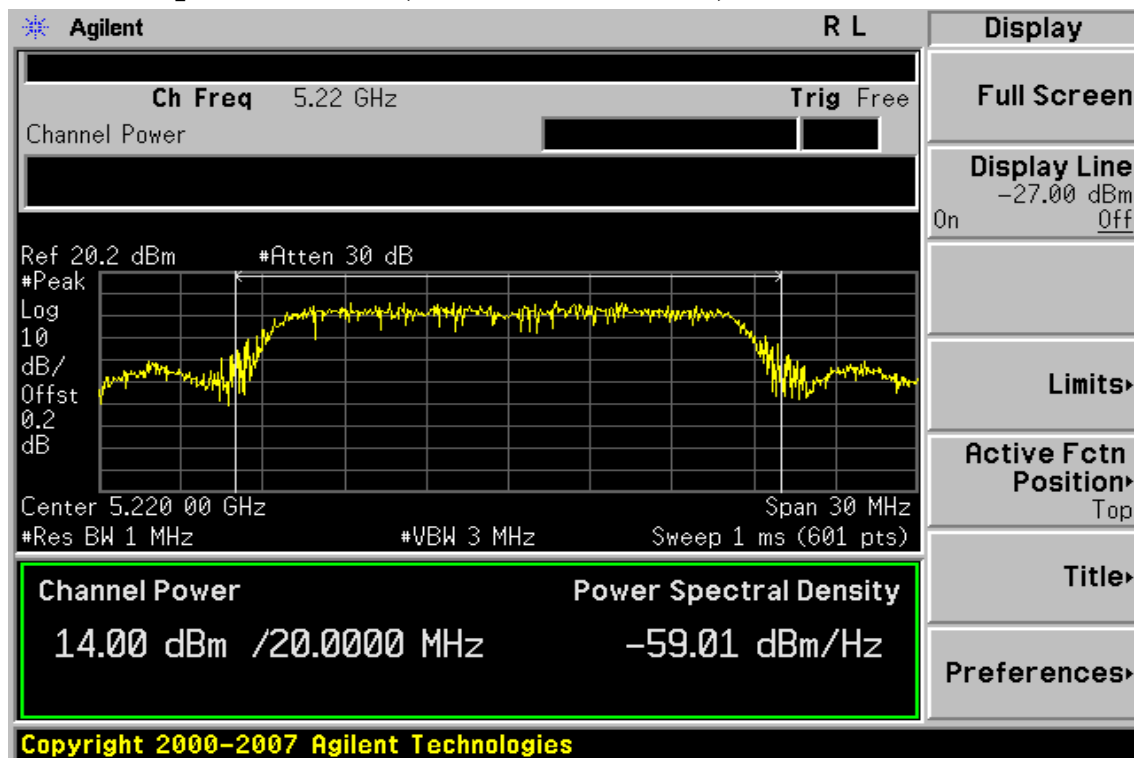
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UNII

Peak Power Output Data Plot (CH Low 5180 MHz)



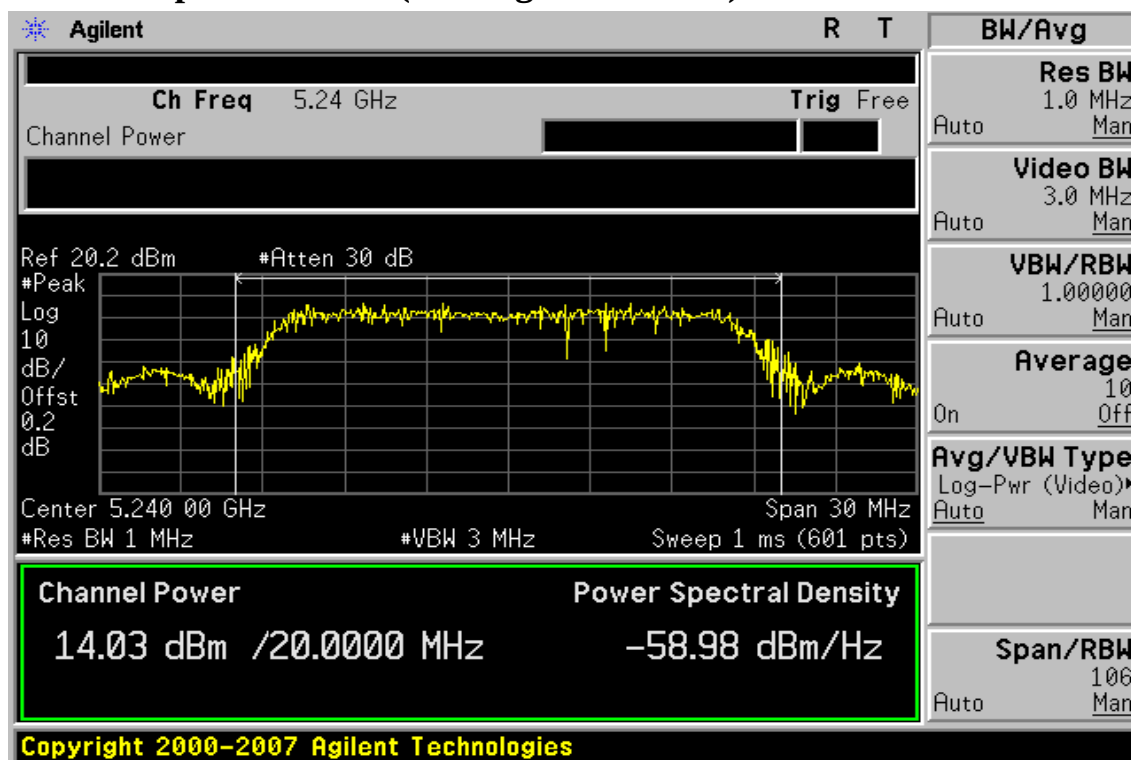
Peak Power Output Data Plot (CH Mid 5220 MHz)



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Peak Power Output Data Plot (CH High 5240 MHz)

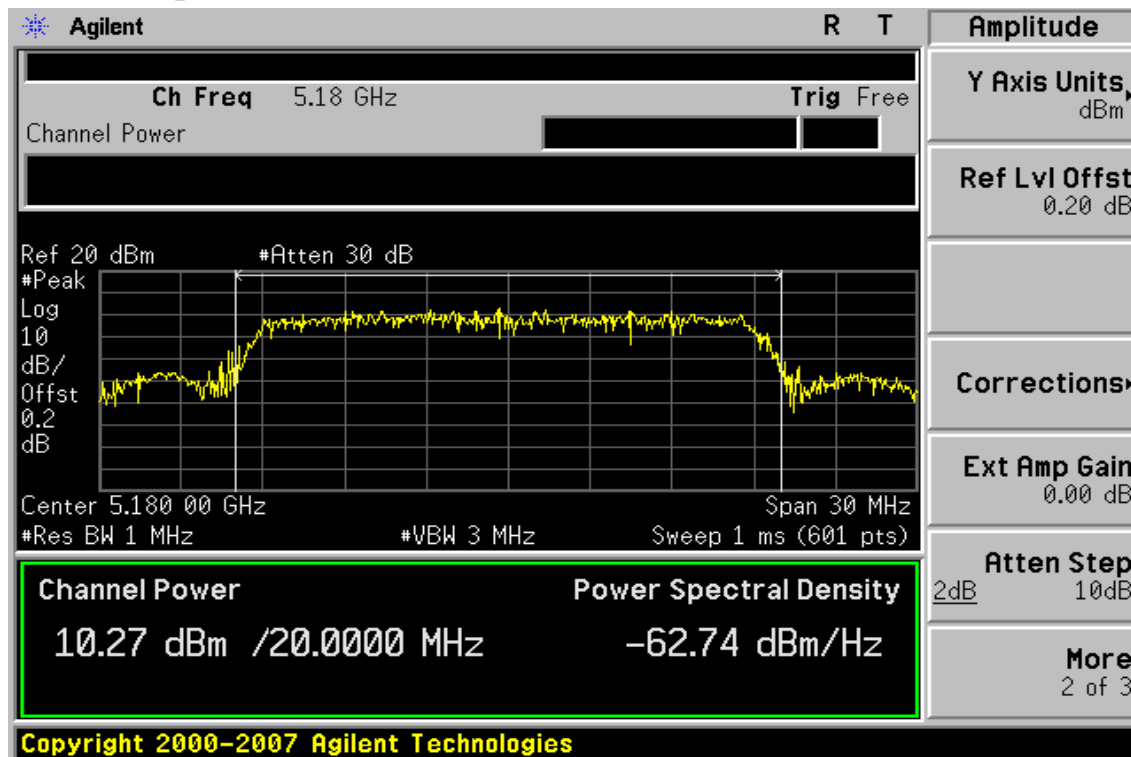


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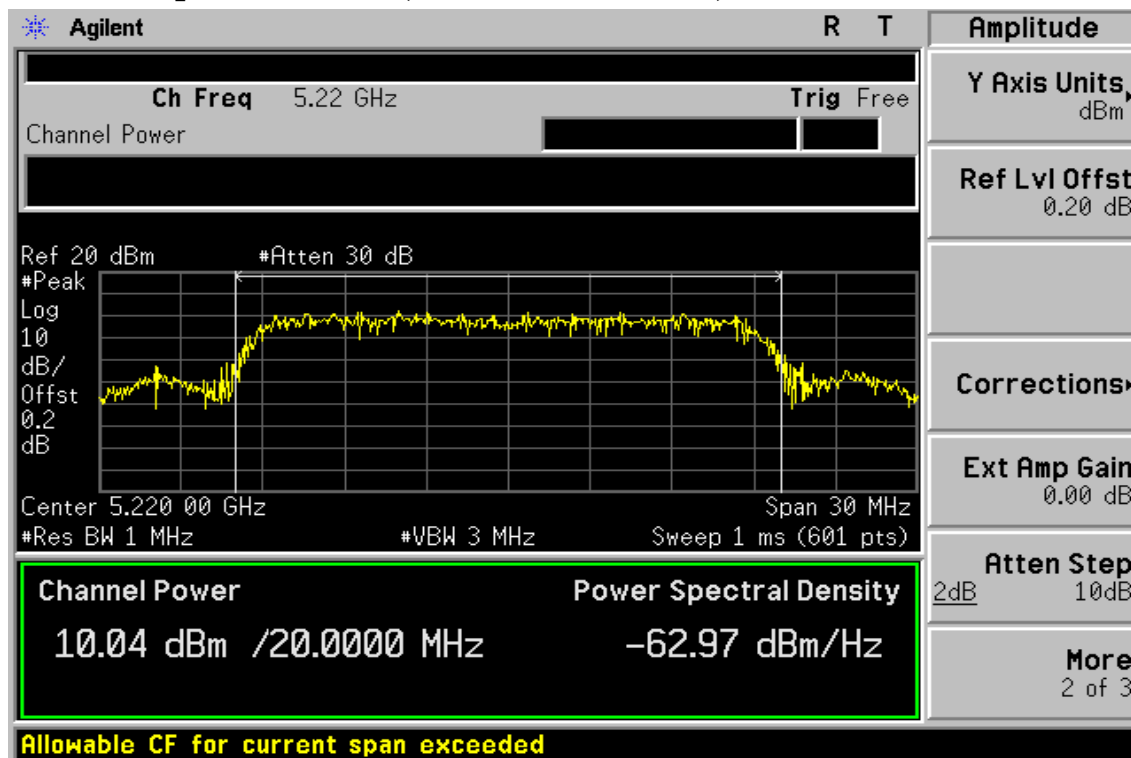
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UNII HT20, Chain 0

Peak Power Output Data Plot (CH Low 5180 MHz)



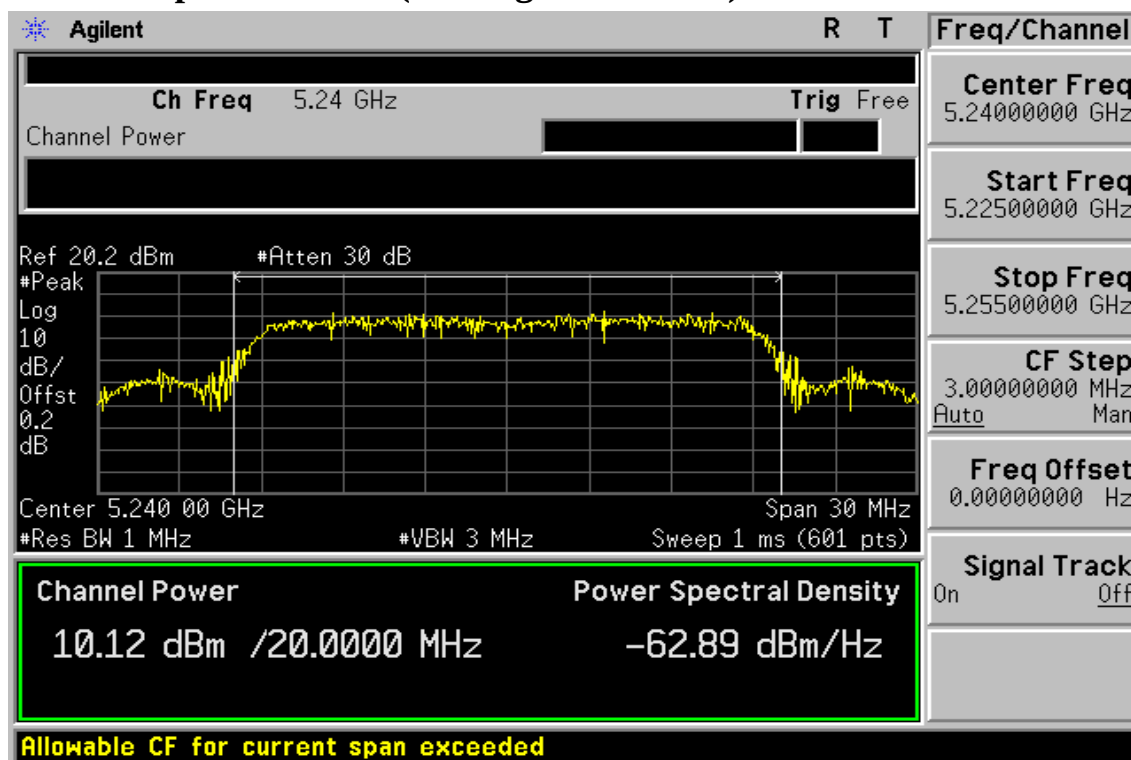
Peak Power Output Data Plot (CH Mid 5220 MHz)



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Peak Power Output Data Plot (CH High 5240 MHz)

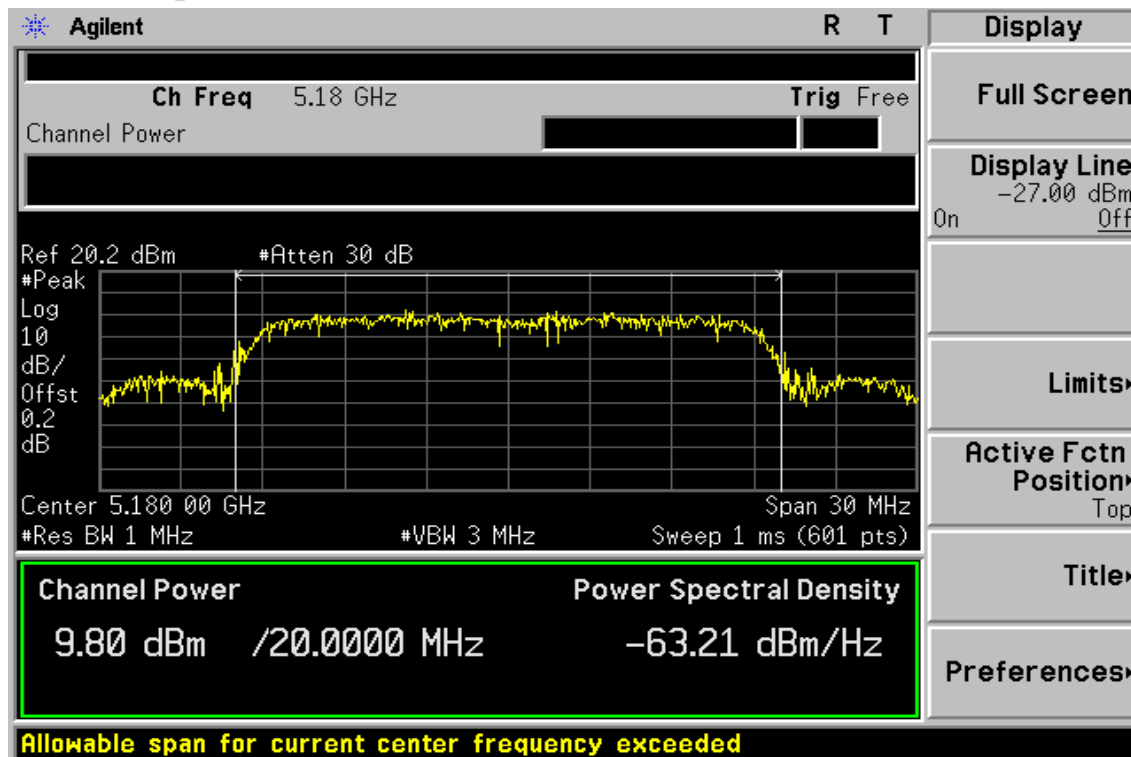


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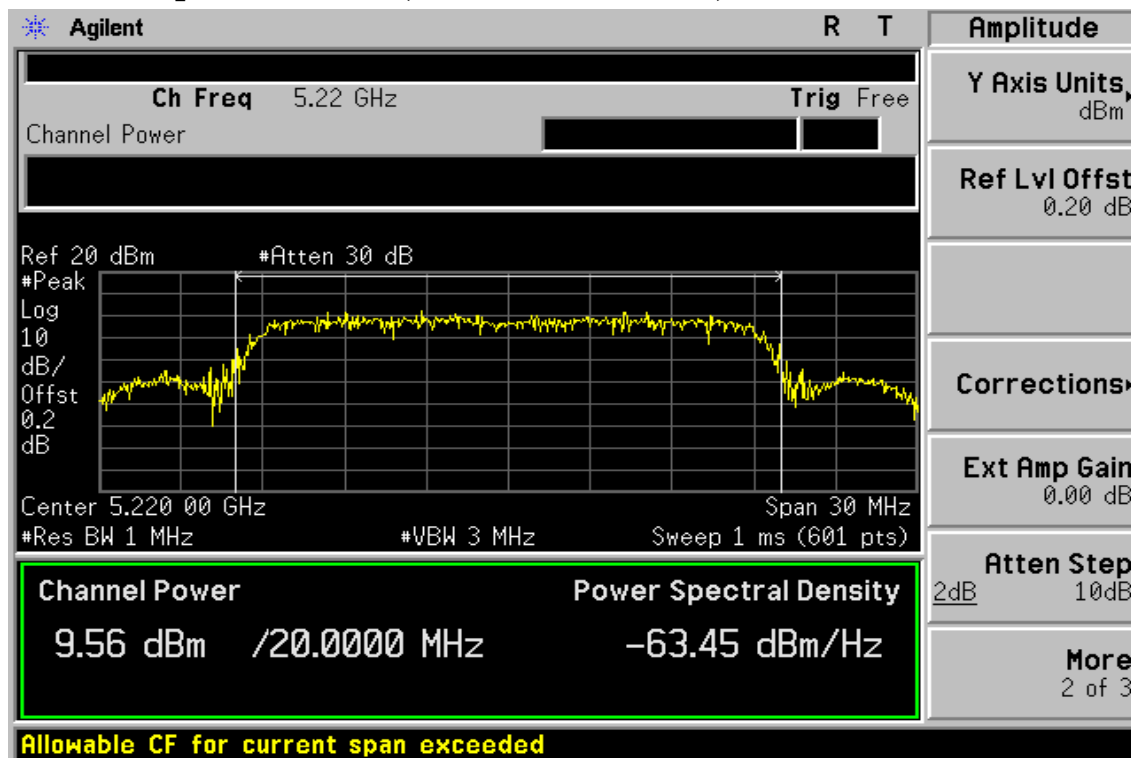
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UNII HT20, Chain 1

Peak Power Output Data Plot (CH Low 5180 MHz)



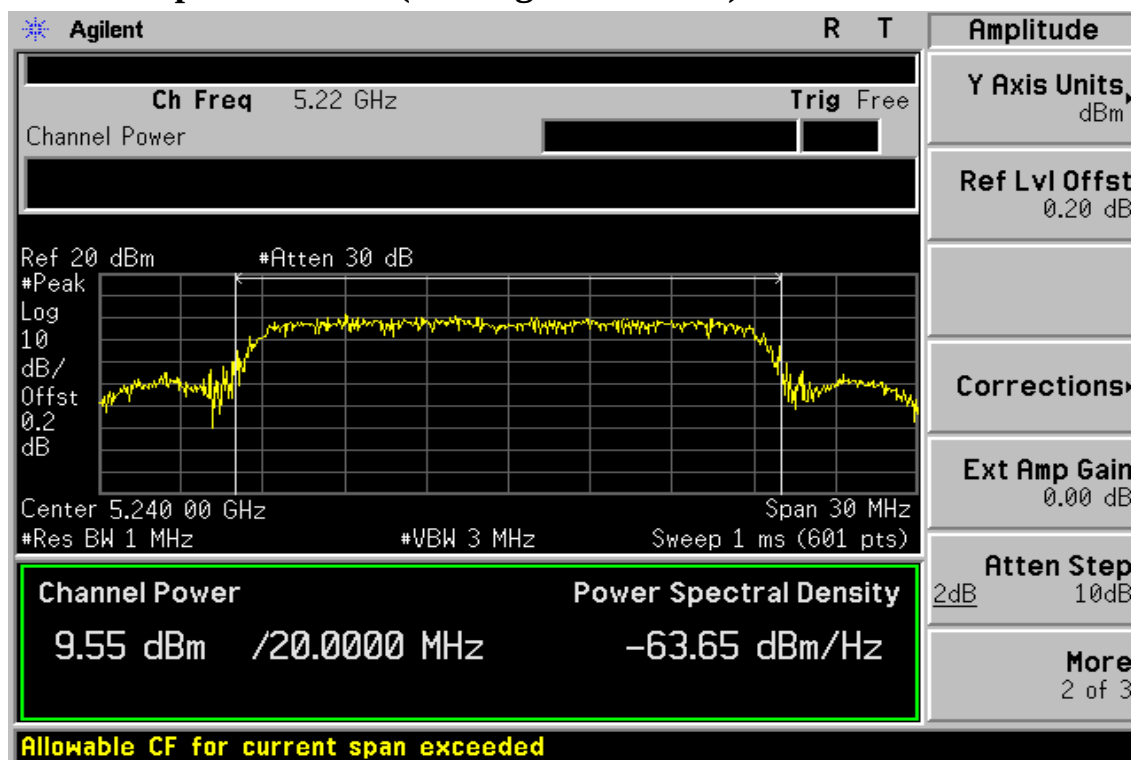
Peak Power Output Data Plot (CH Mid 5220 MHz)



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Peak Power Output Data Plot (CH High 5240 MHz)

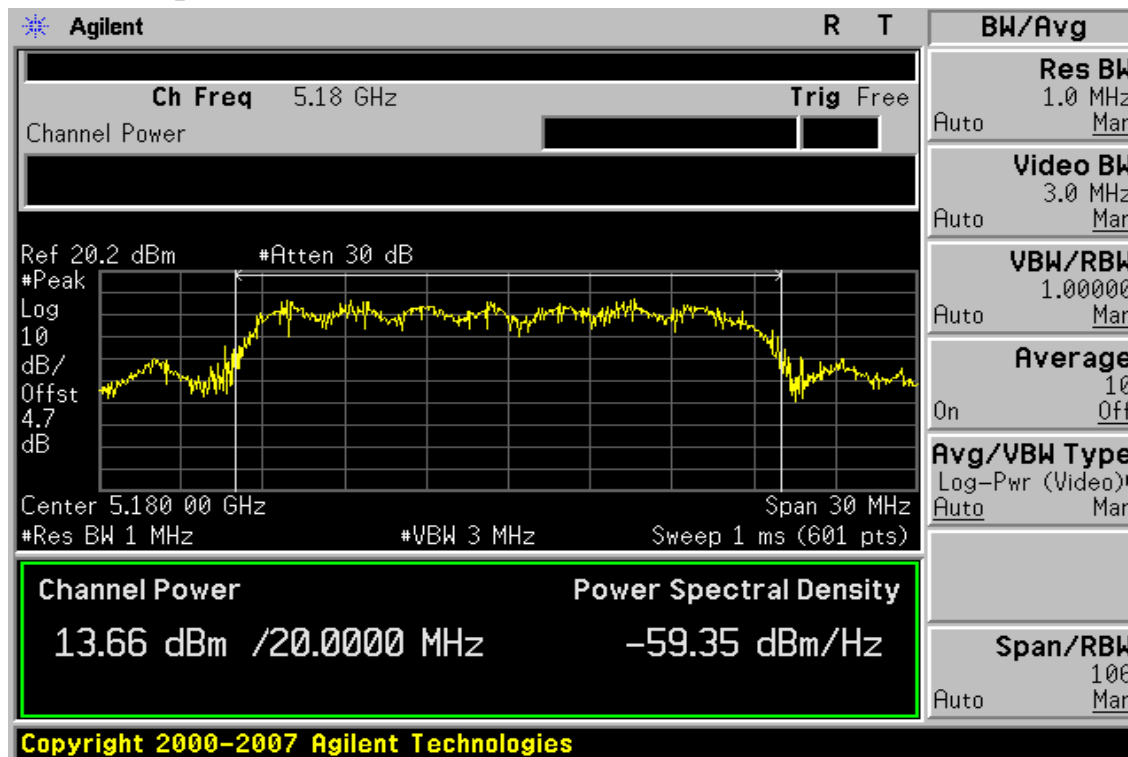


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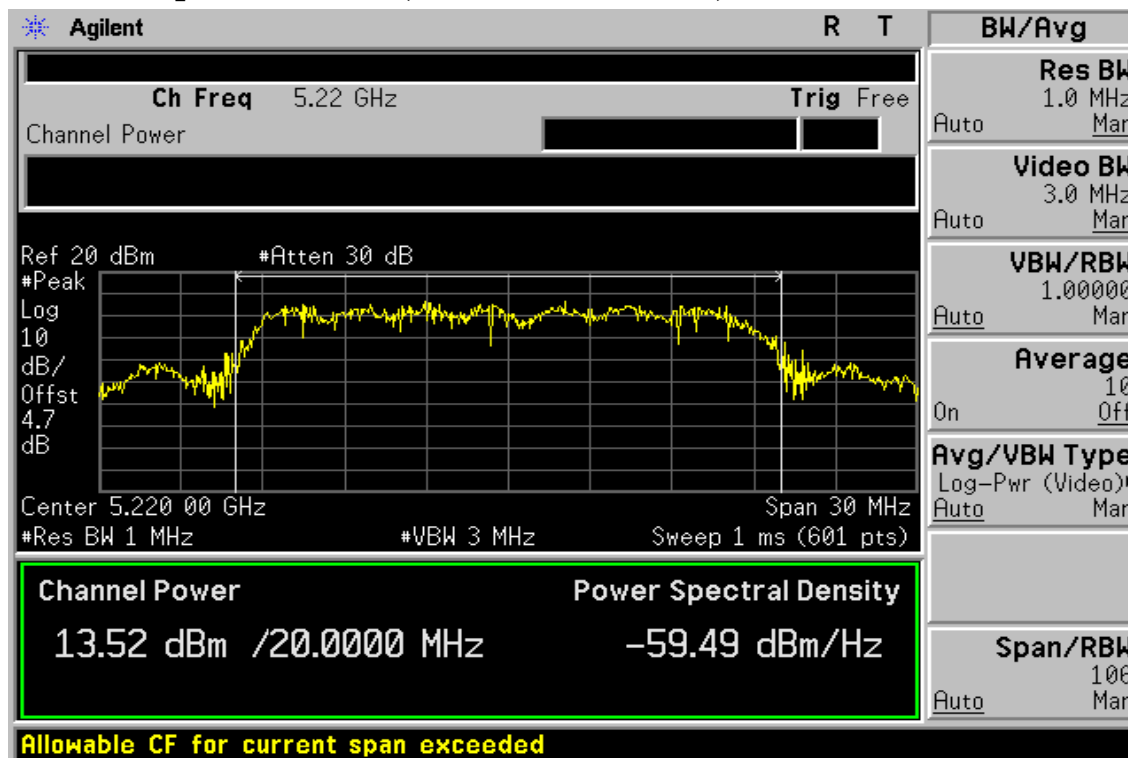
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UNII HT20, Comp

Peak Power Output Data Plot (CH Low 5180 MHz)



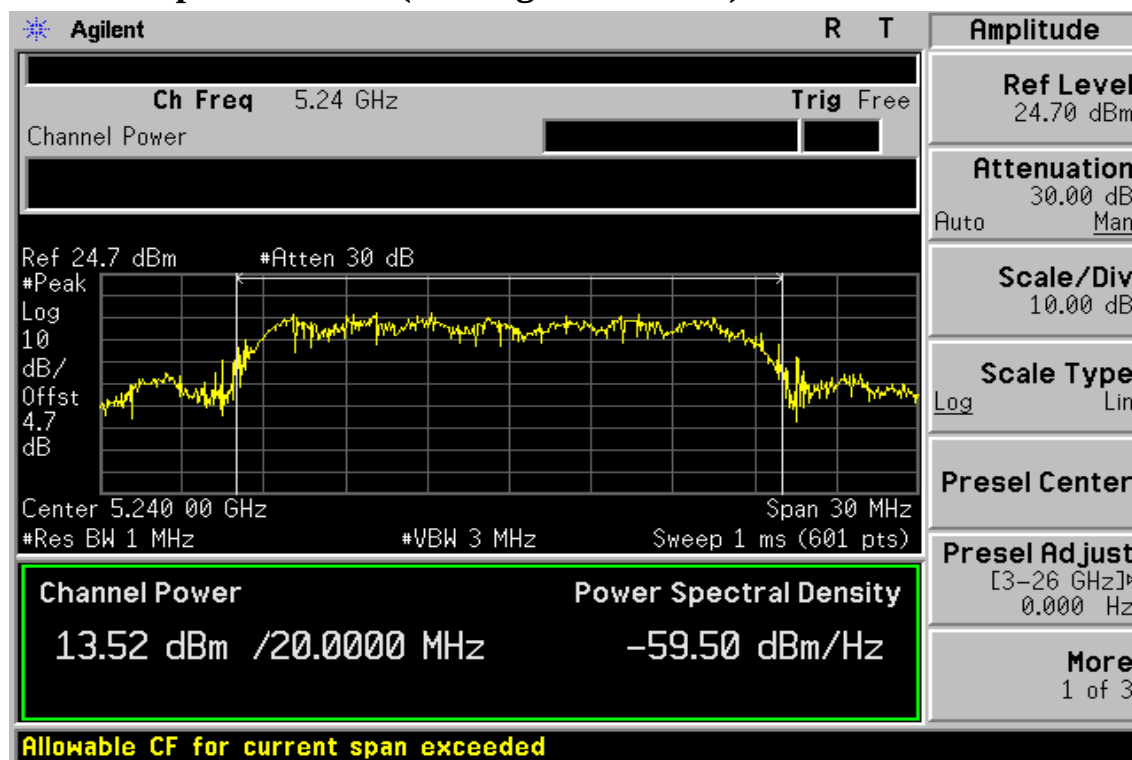
Peak Power Output Data Plot (CH Mid 5220 MHz)



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Peak Power Output Data Plot (CH High 5240 MHz)

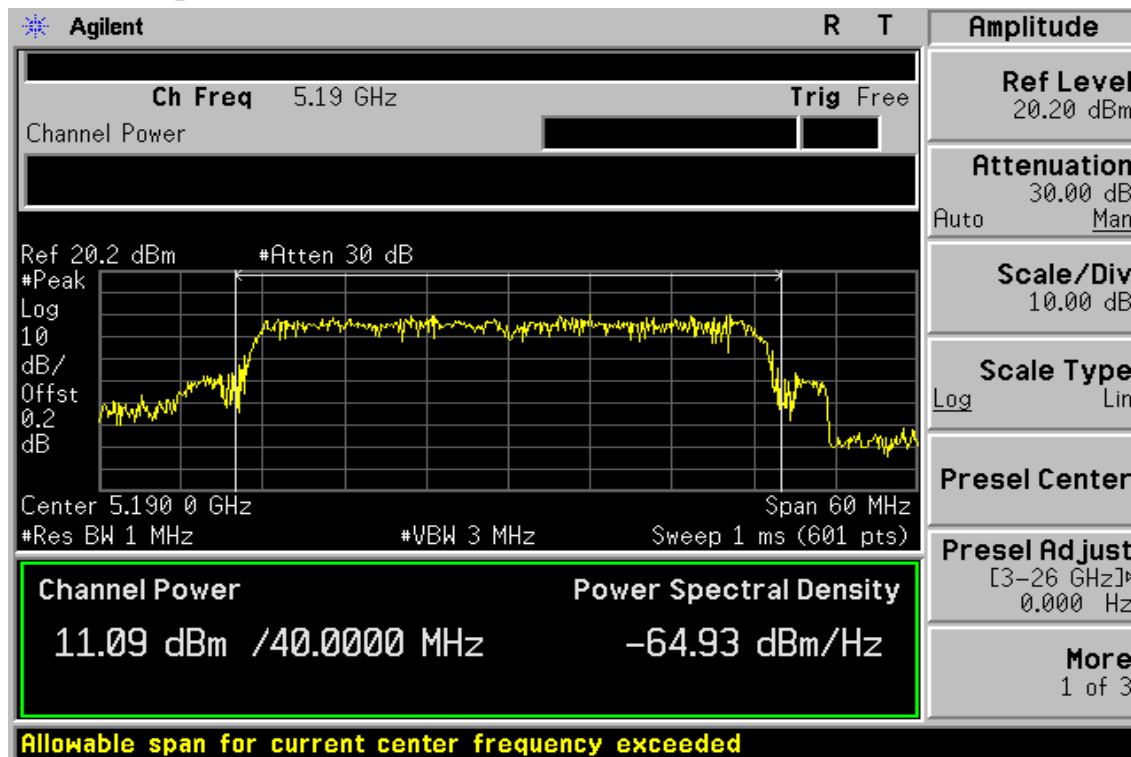


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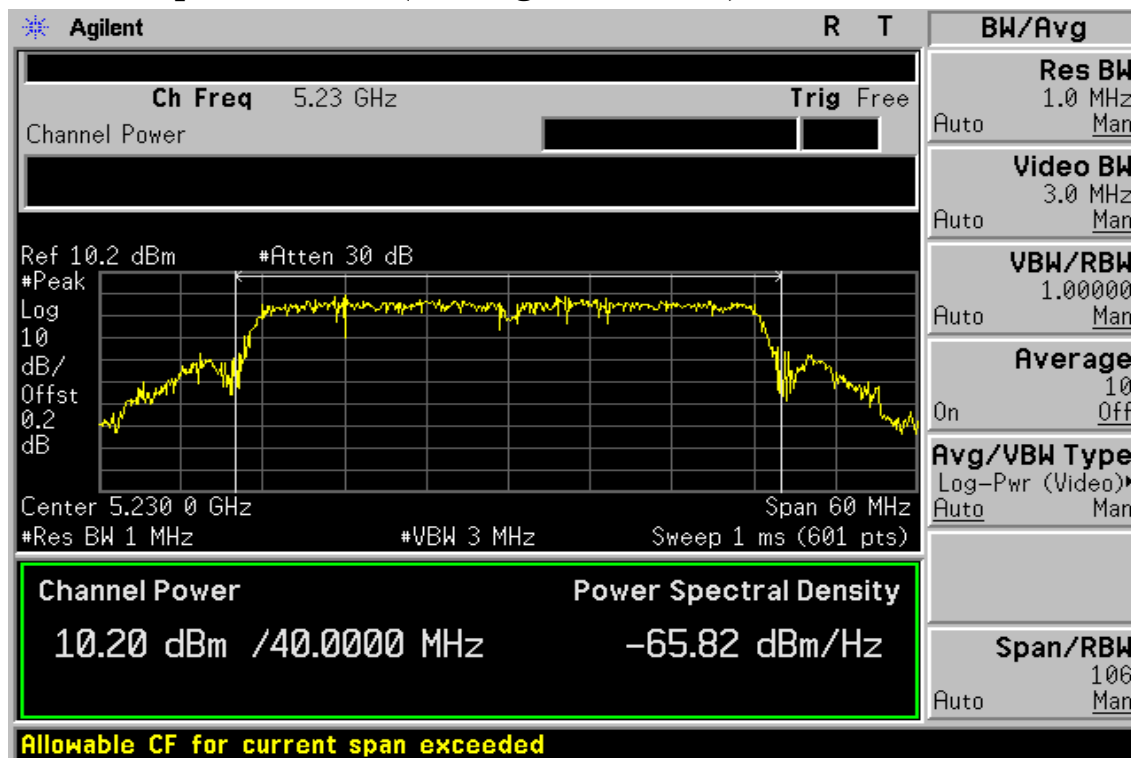
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UNII HT40, Chain 0

Peak Power Output Data Plot (CH Low 5190 MHz)



Peak Power Output Data Plot (CH High 5230 MHz)

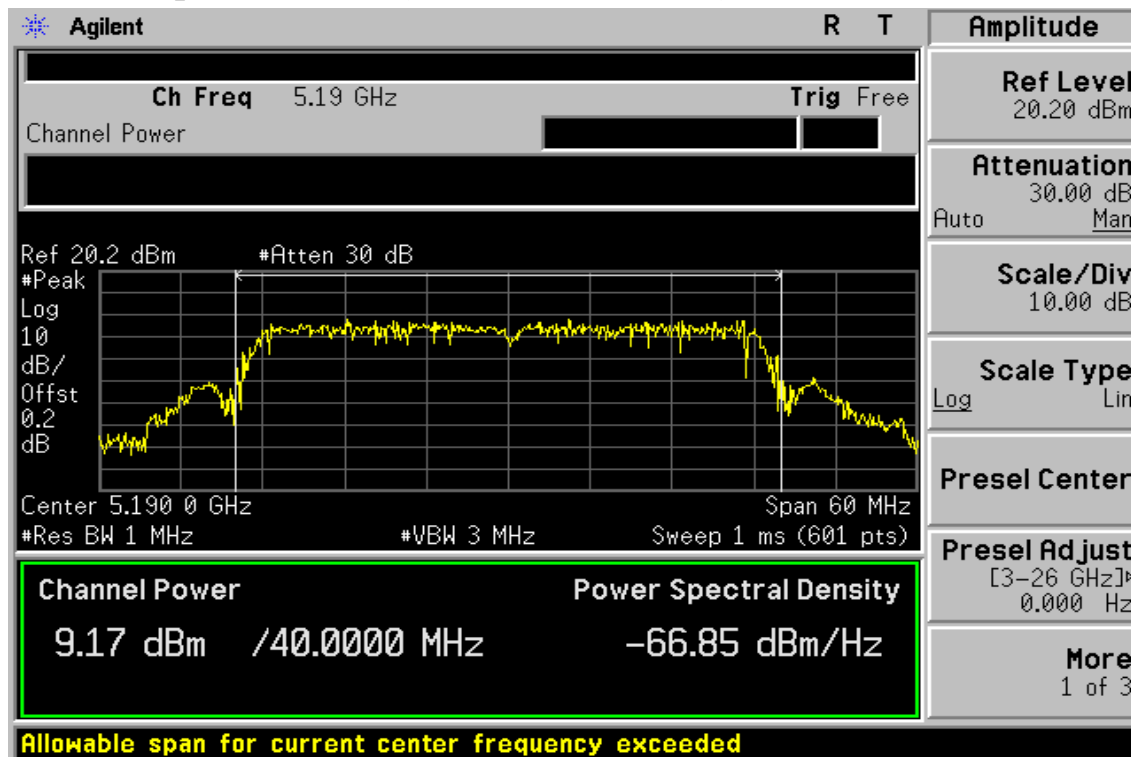


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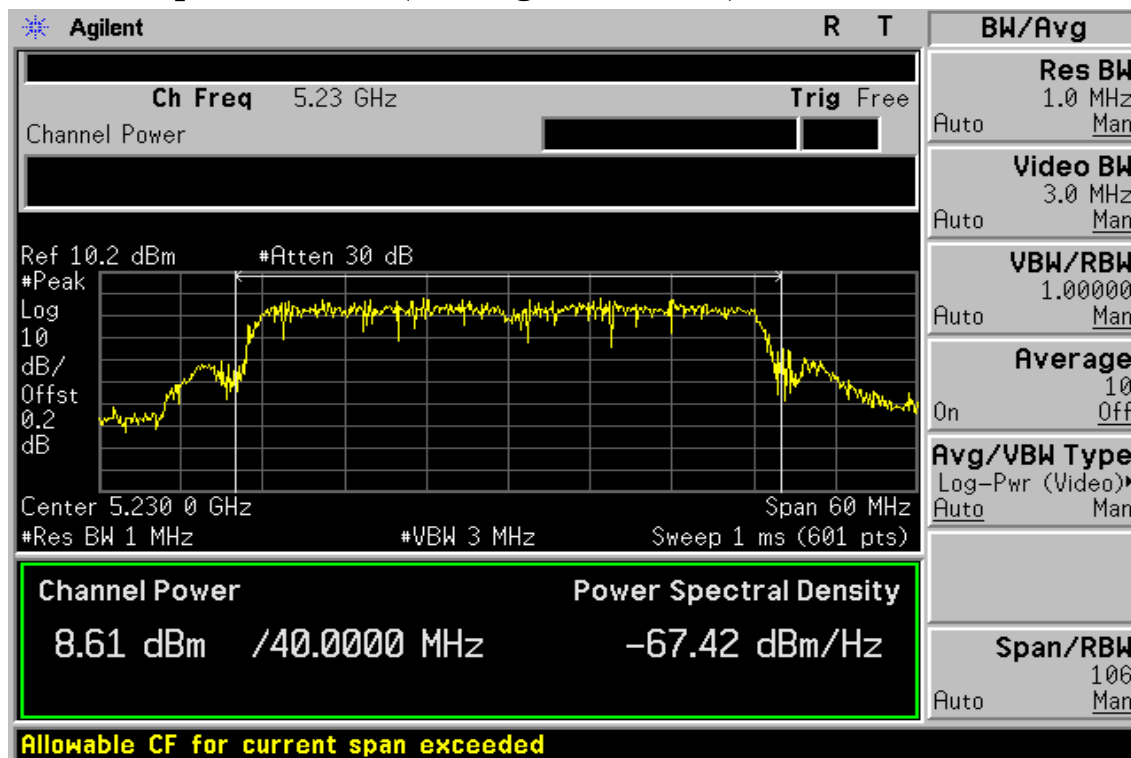
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UNII HT40, Chain 1

Peak Power Output Data Plot (CH Low 5190 MHz)



Peak Power Output Data Plot (CH High 5230 MHz)

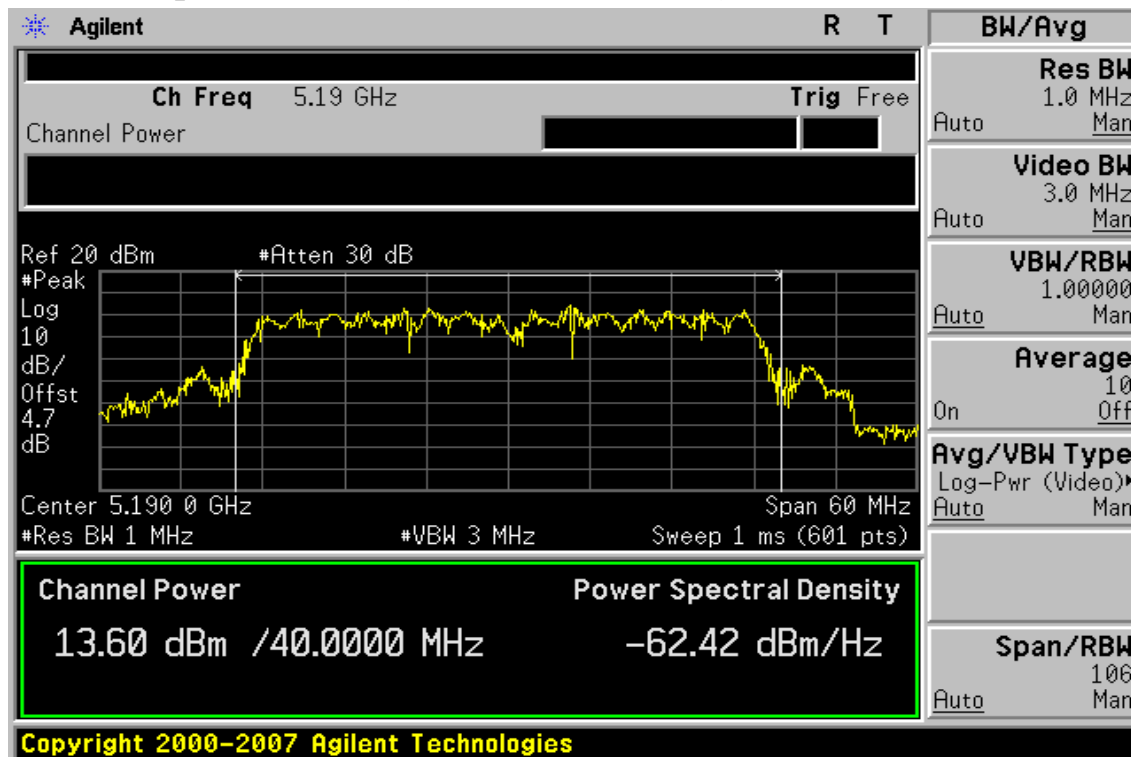


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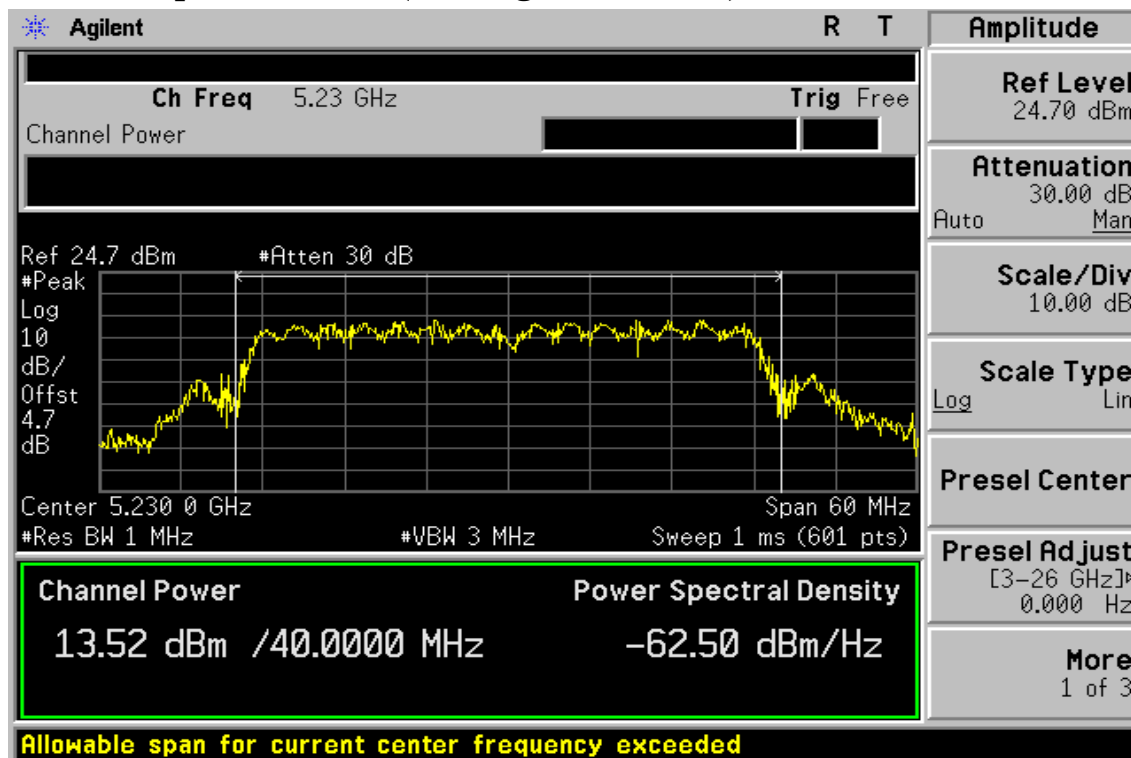
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UNII HT40, Camp

Peak Power Output Data Plot (CH Low 5190 MHz)



Peak Power Output Data Plot (CH High 5230 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.

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

According to RSS-210 A9.2

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

$17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

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

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

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

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

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

B is the 99% emission bandwidth in MHz.

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.

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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	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010

8.4 Measurement Result

UNII

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-6.30	4.00	-10.30
5220	-10.55	4.00	-14.55
5240	-8.01	4.00	-12.01

UNII HT20, Chain0

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-10.46	4.00	-14.46
5220	-11.70	4.00	-15.70
5240	-13.73	4.00	-17.73

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UNII HT20, Chain1

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-13.92	4.00	-17.92
5220	-12.88	4.00	-16.88
5240	-11.81	4.00	-15.81

UNII HT20, Combine, Chain0, Chain1

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-9.69	4.00	-13.69
5220	-6.34	4.00	-10.34
5240	-7.78	4.00	-11.78

UNII HT40, Chain0

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-23.86	4.00	-27.86
5230	-23.93	4.00	-27.93

UNII HT40, Chain1

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-24.98	4.00	-28.98
5230	-23.03	4.00	-27.03

UNII HT40, Combine, Chain0, Chain1

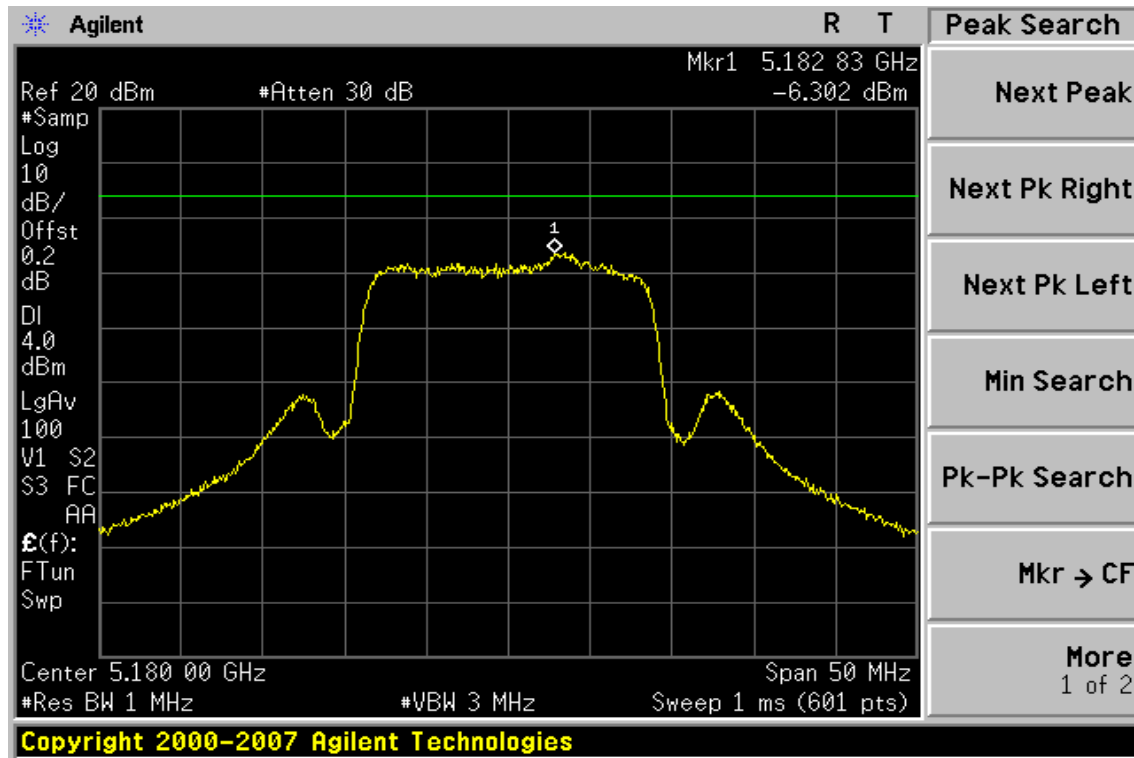
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-20.19	4.00	-24.19
5230	-20.54	4.00	-24.54

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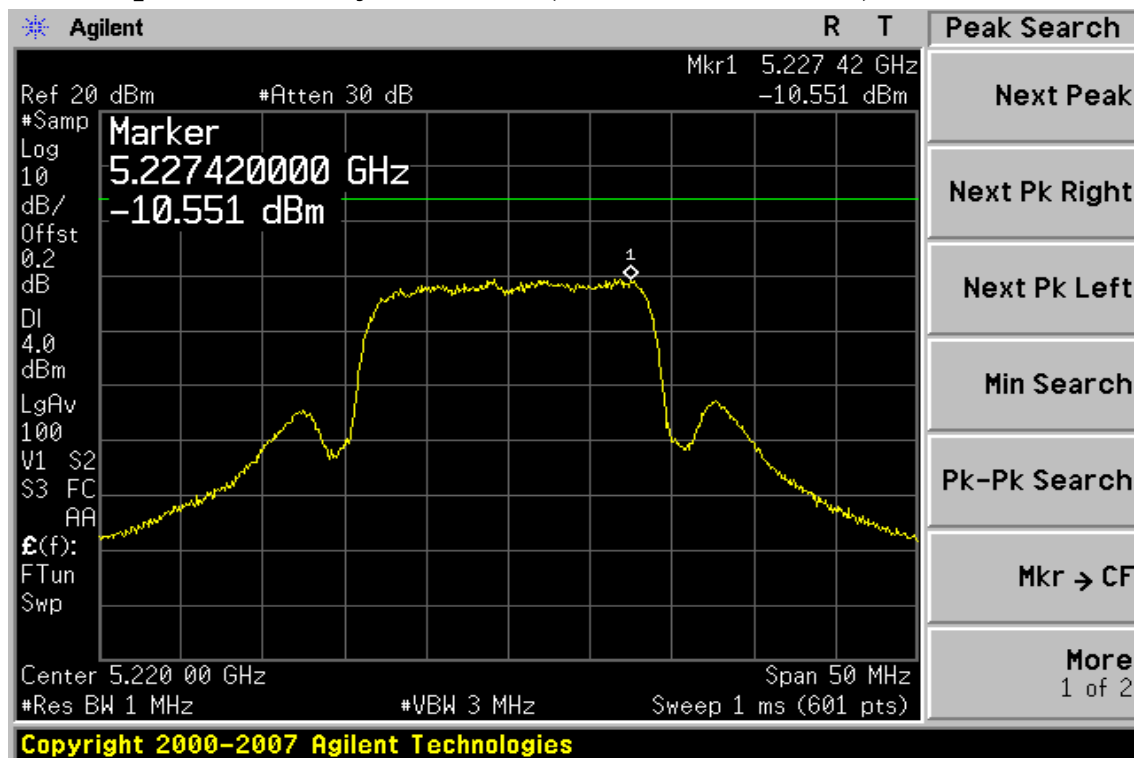
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UNIII

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



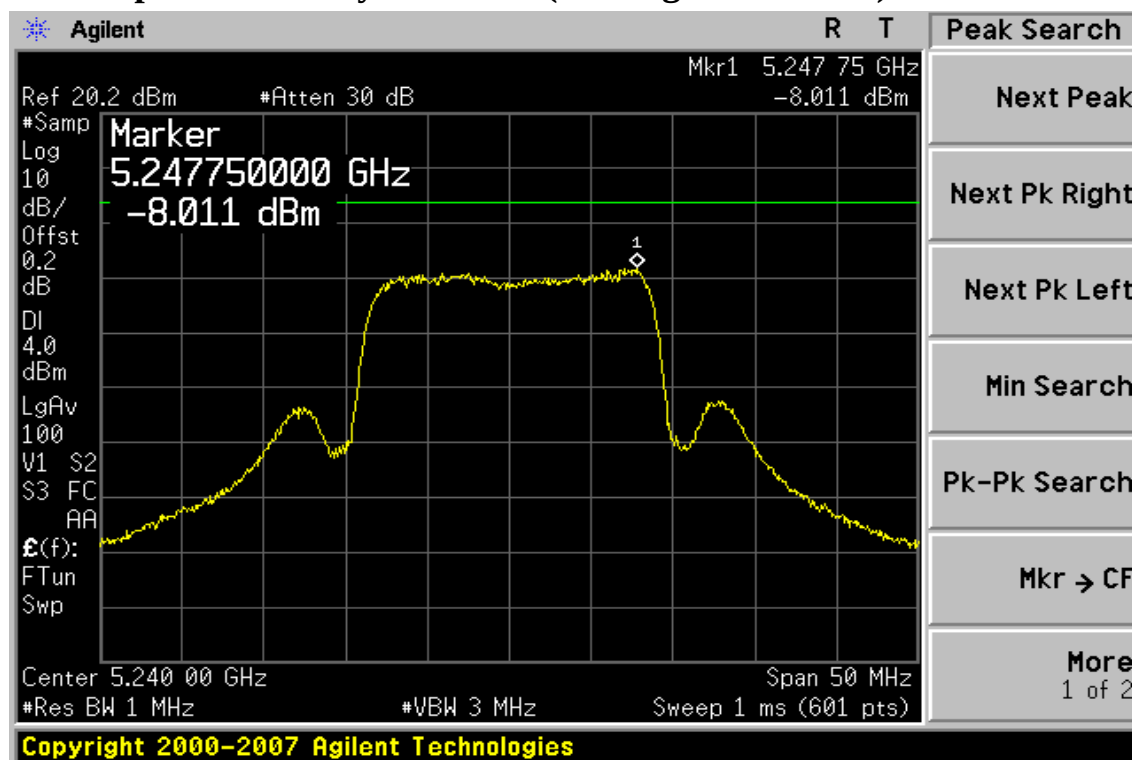
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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

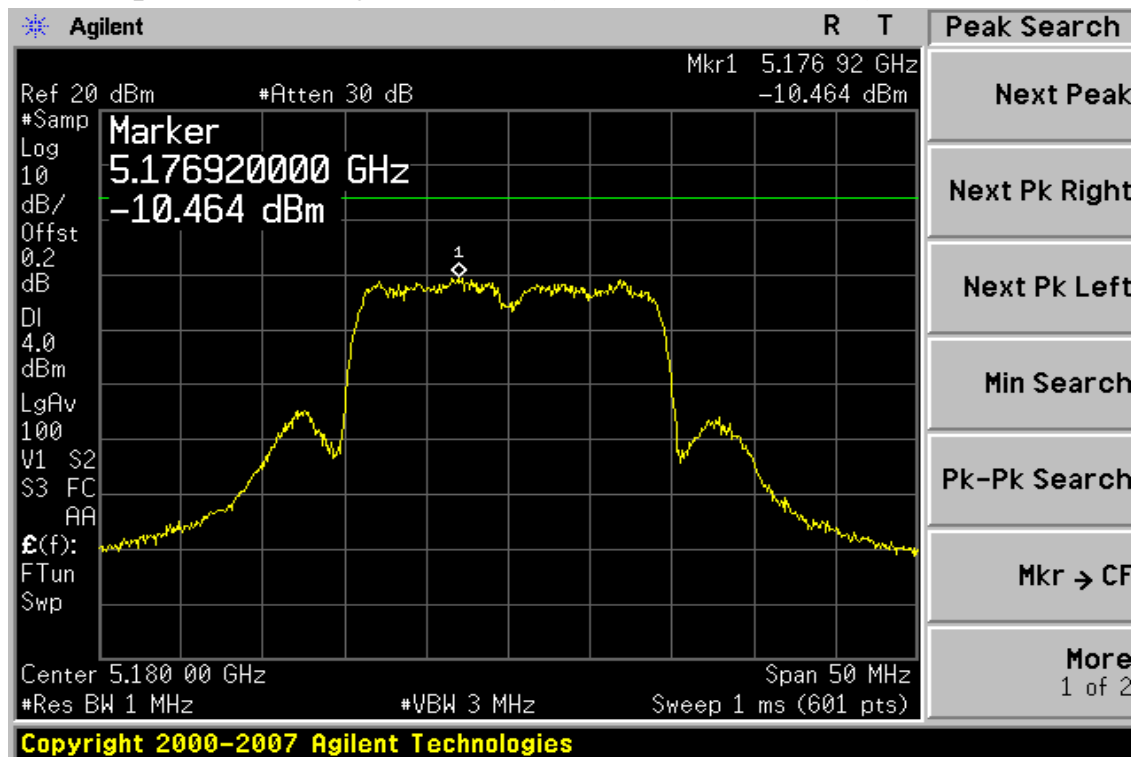


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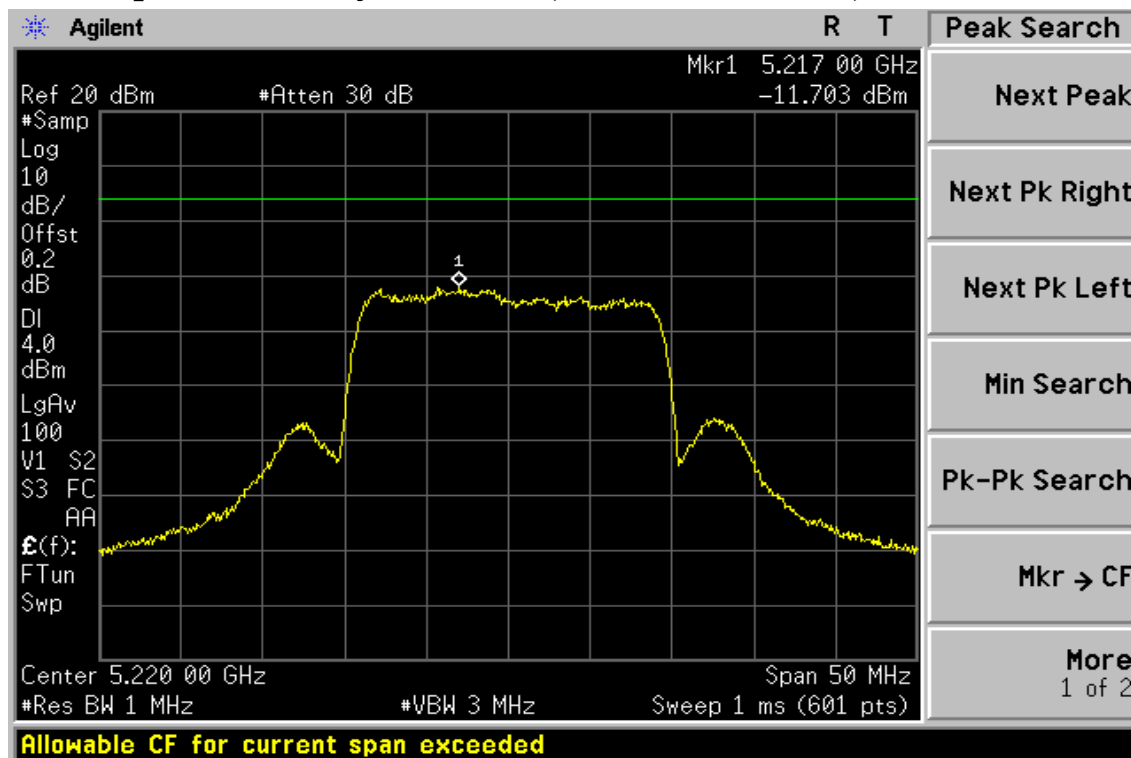
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UNII HT20, Chain 0

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



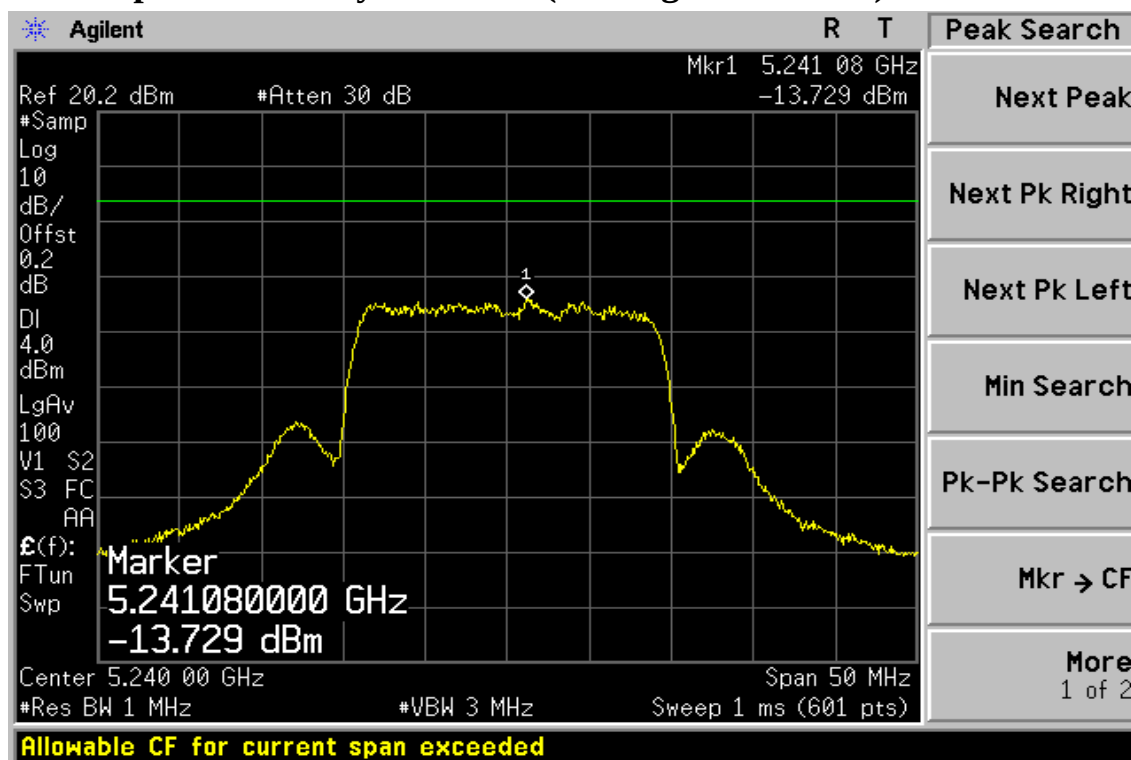
Peak Power Spectral Density Data Plot (CH Mid 5220MHz)



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

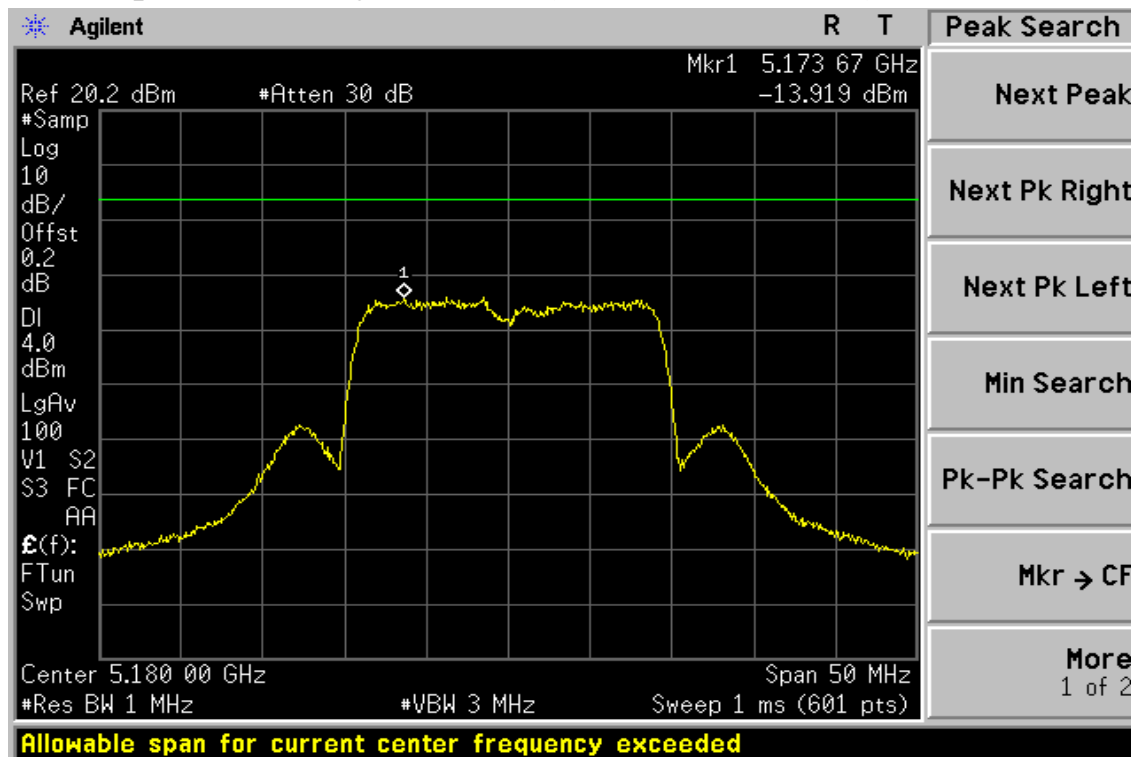


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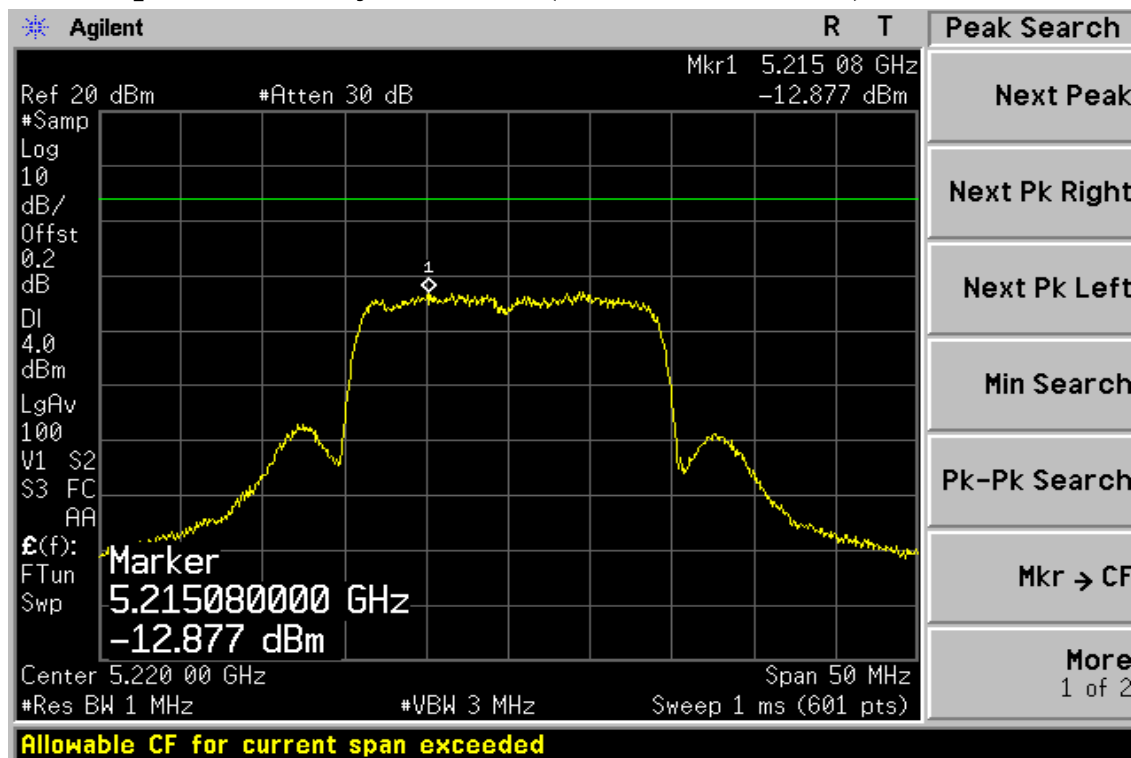
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UNII HT20, Chain 1

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



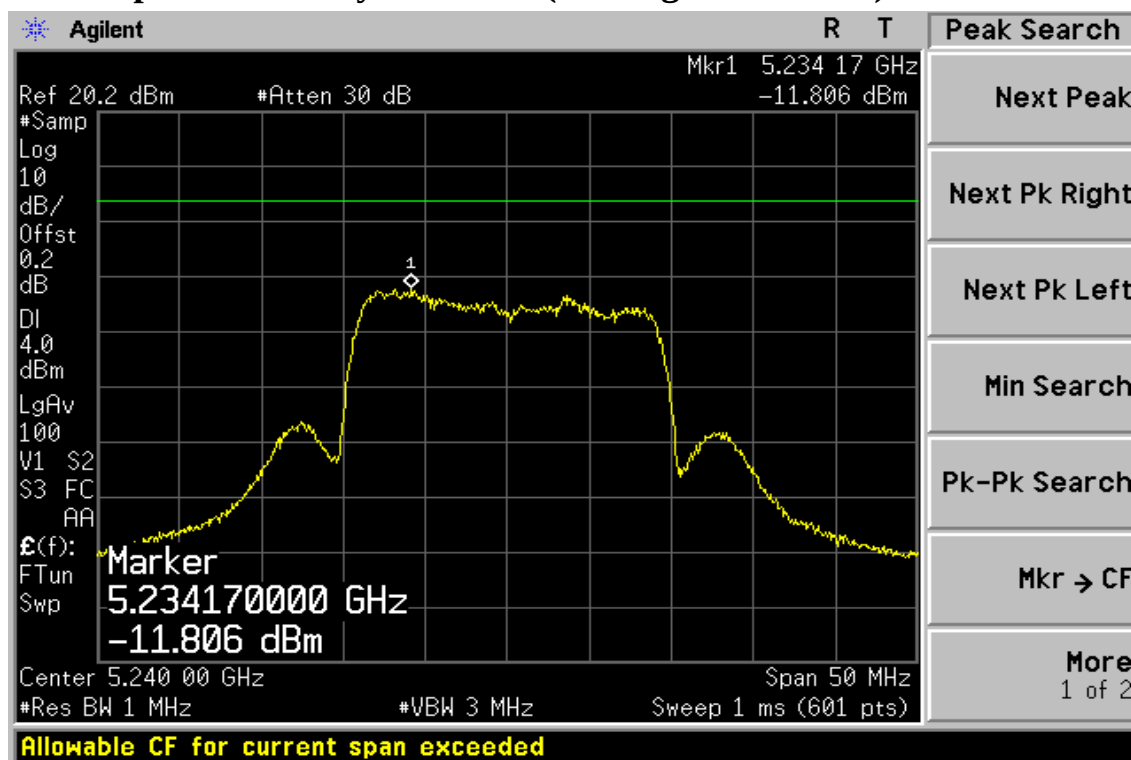
Peak Power Spectral Density Data Plot (CH Mid 5220MHz)



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

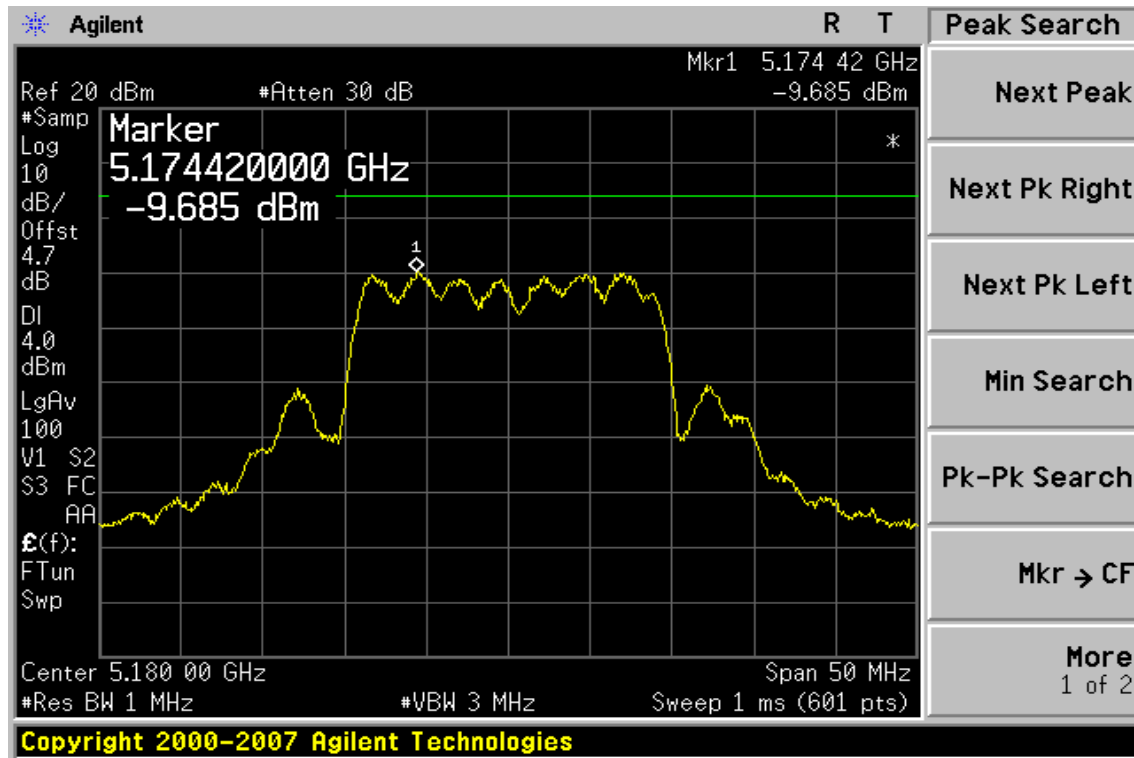


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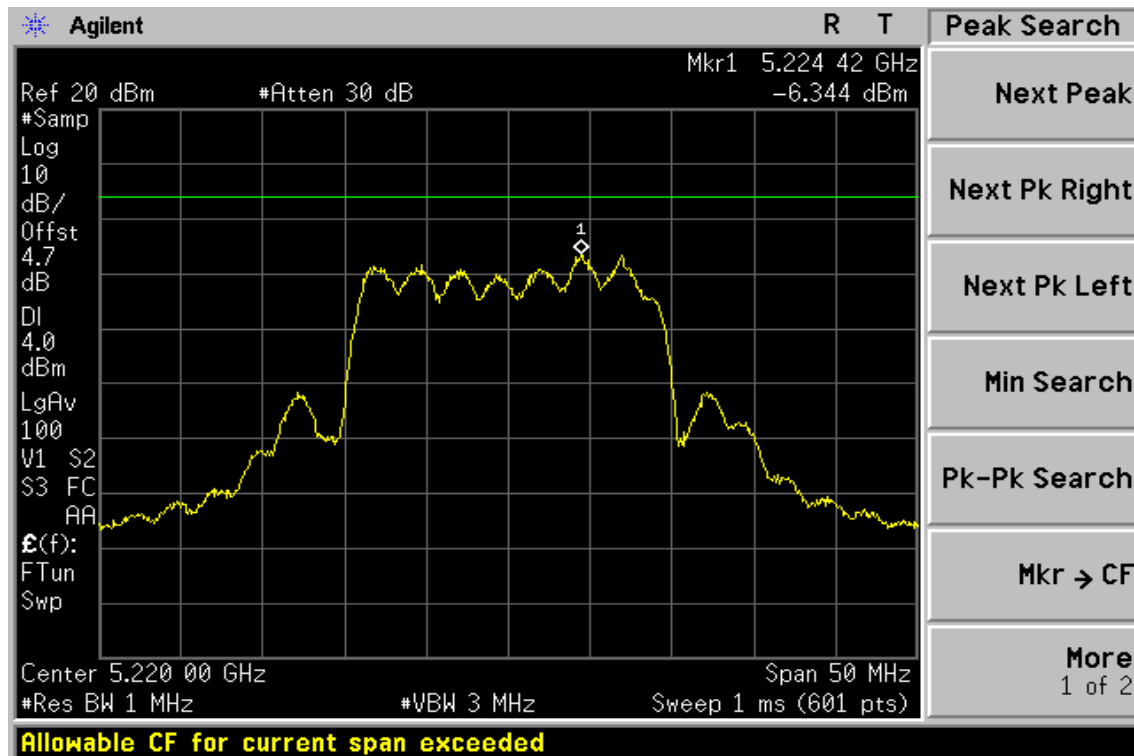
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UNII HT20, Comp

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



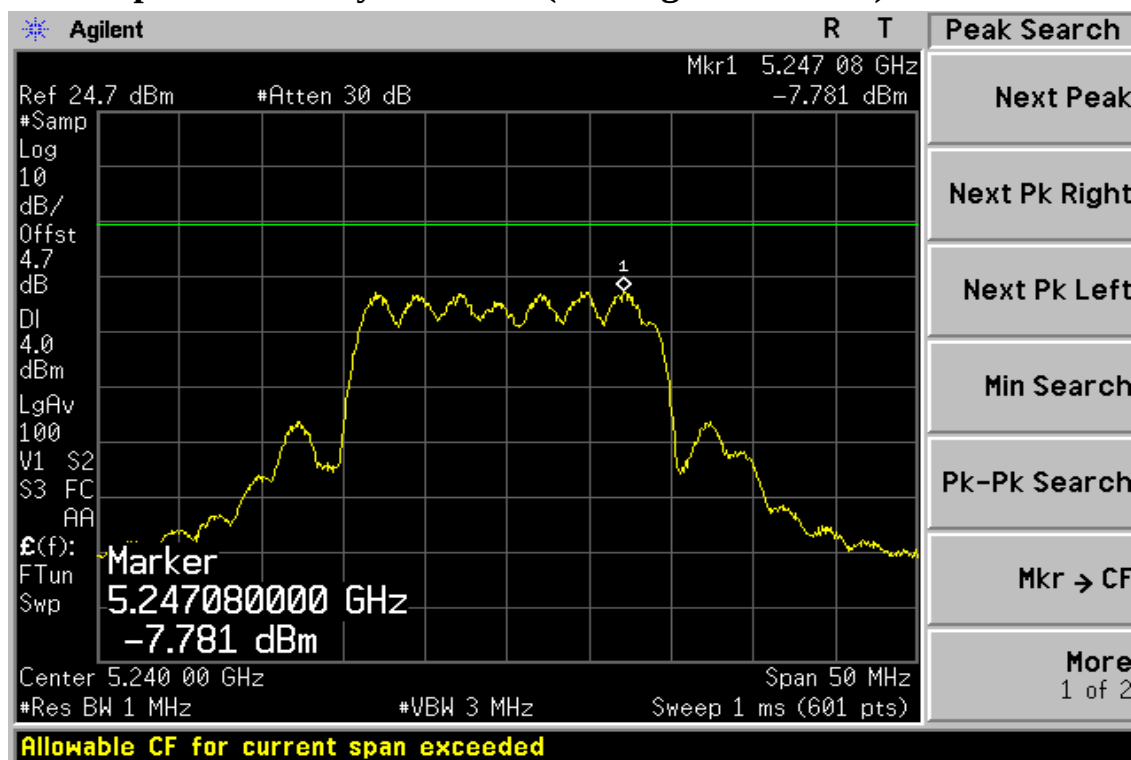
Peak Power Spectral Density Data Plot (CH Mid 5220MHz)



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

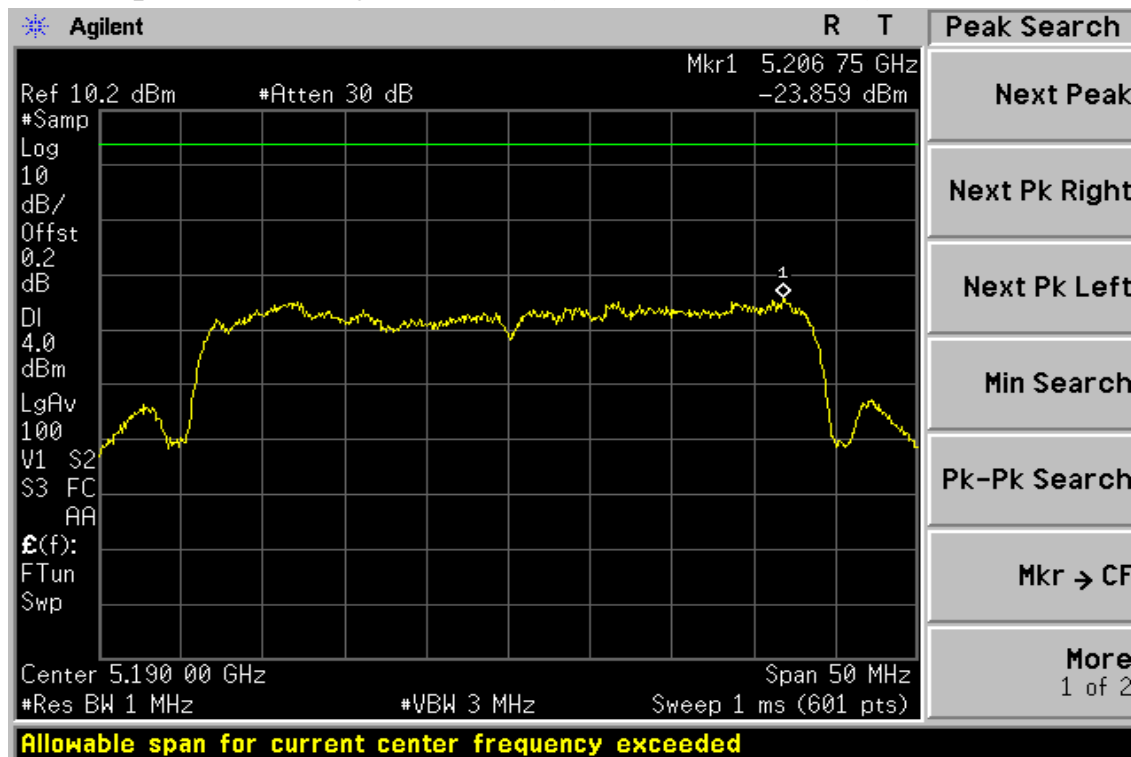


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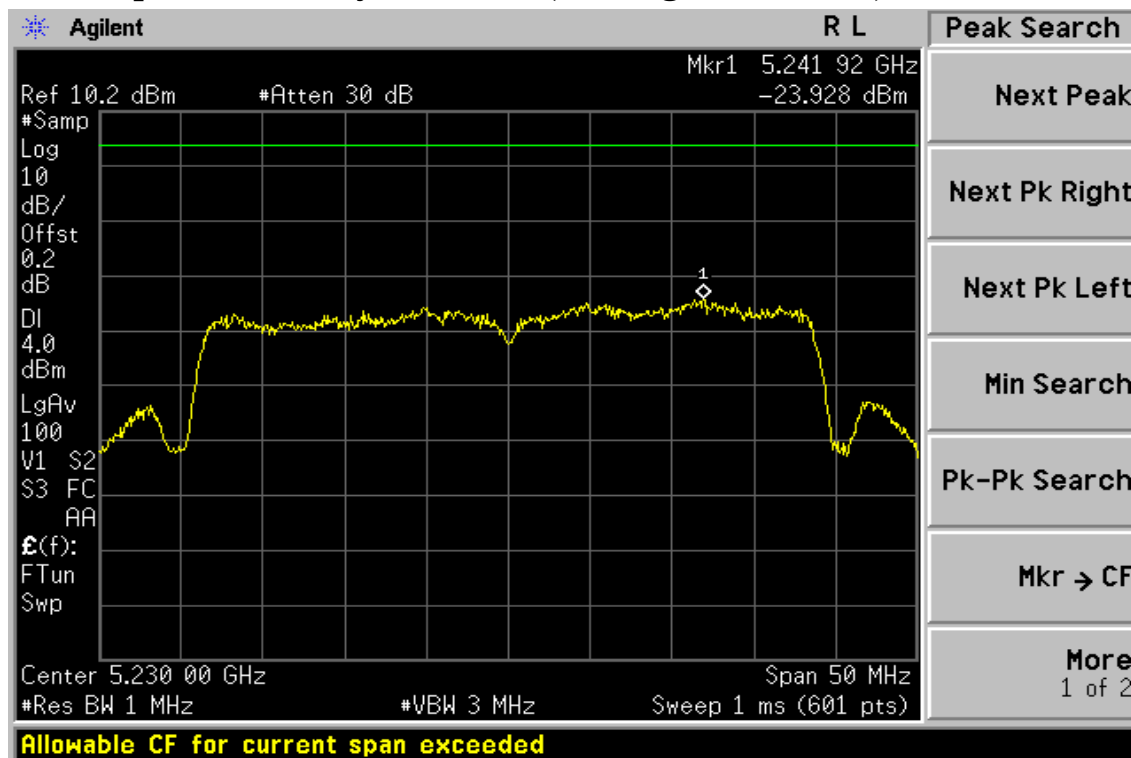
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UNII HT40, Chain 0

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



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

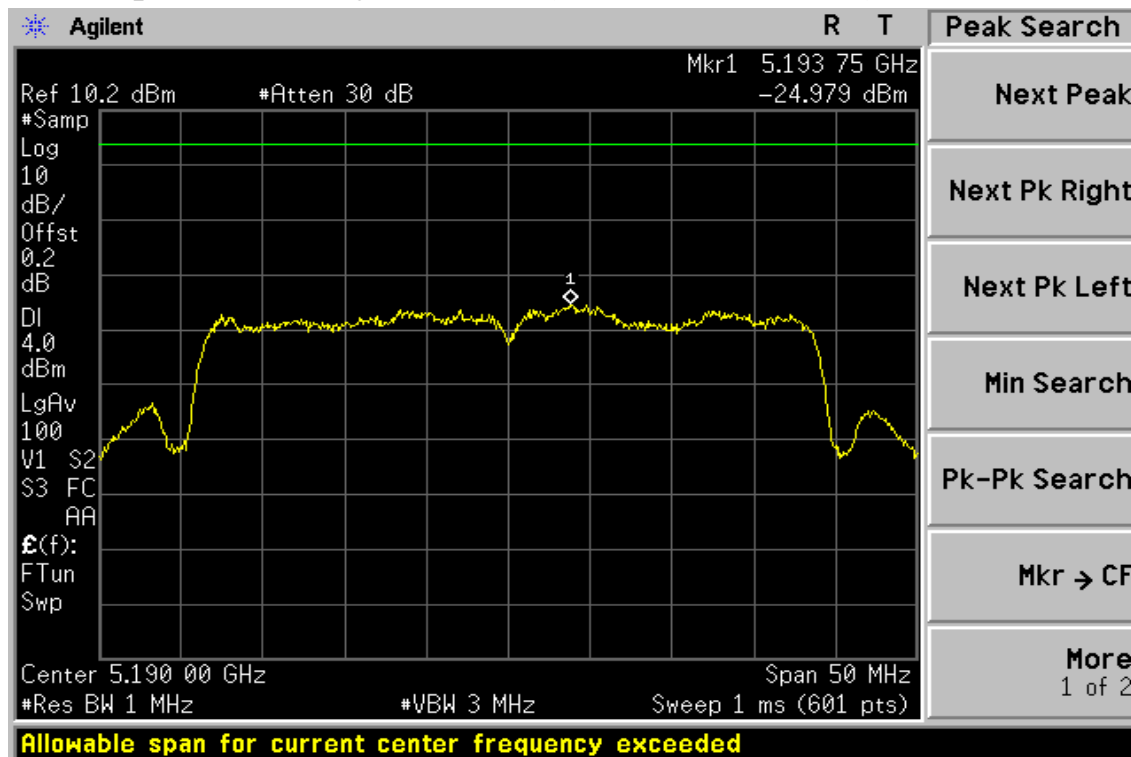


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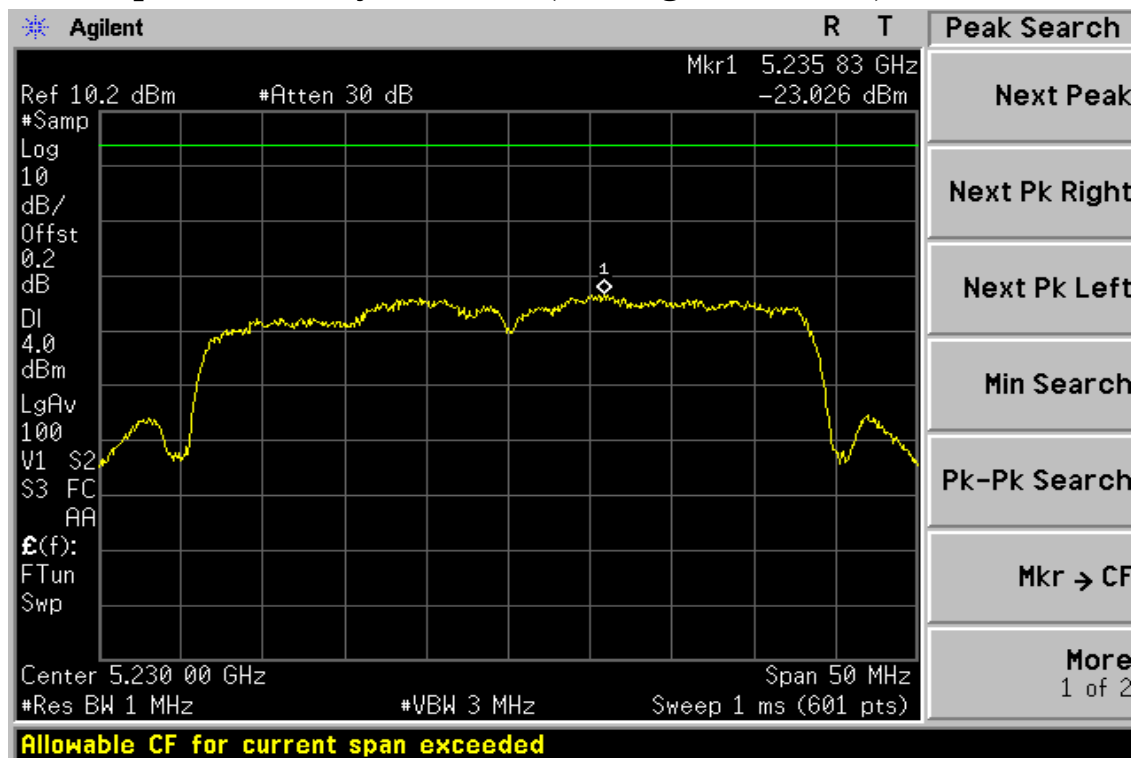
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UNII HT40, Chain 1

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



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

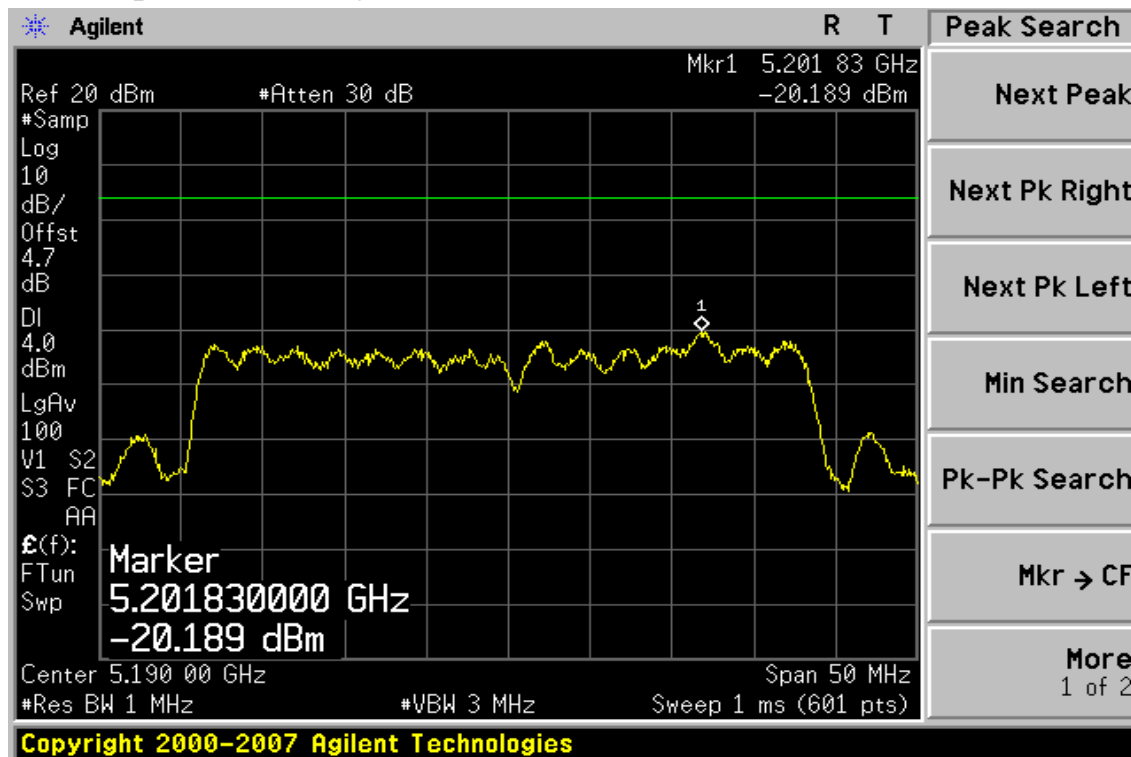


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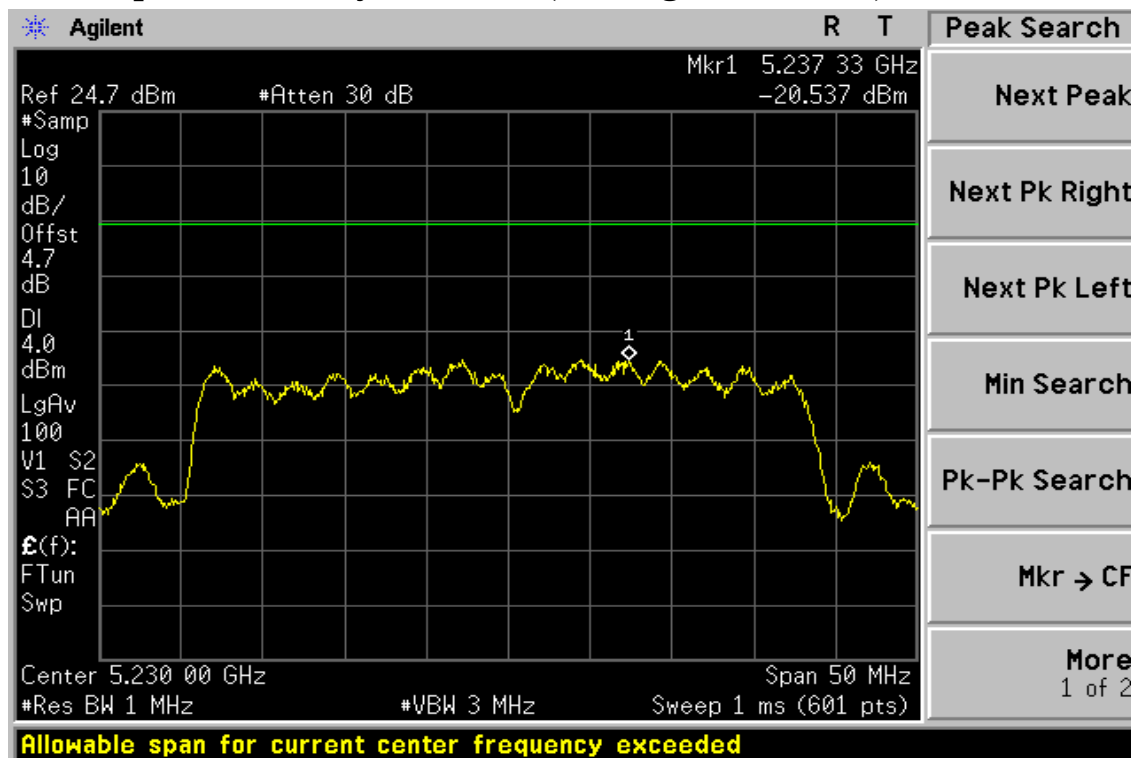
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UNII HT40, Comp

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



Peak Power Spectral Density Data Plot (CH High 5230 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.

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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	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010

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9.4 Test Results:

UNII

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	7.54	13.00	-5.46
Mid	5220	5.95	13.00	-7.05
High	5240	8.08	13.00	-4.92

UNII HT20, Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	7.91	13.00	-5.09
Mid	5220	6.82	13.00	-6.18
High	5240	6.84	13.00	-6.16

UNII HT20, Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	5.71	13.00	-7.29
Mid	5220	5.78	13.00	-7.22
High	5240	6.80	13.00	-6.20

UNII HT20, Combine, Chain0, Chain1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	8.41	13.00	-4.59
Mid	5220	6.89	13.00	-6.11
High	5240	7.23	13.00	-5.77

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UNII HT40, Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5190	9.08	13.00	-3.92
High	5230	9.16	13.00	-3.84

UNII HT40, Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5190	8.81	13.00	-4.19
High	5230	7.49	13.00	-5.51

UNII HT40, Combine, Chain0, Chain1

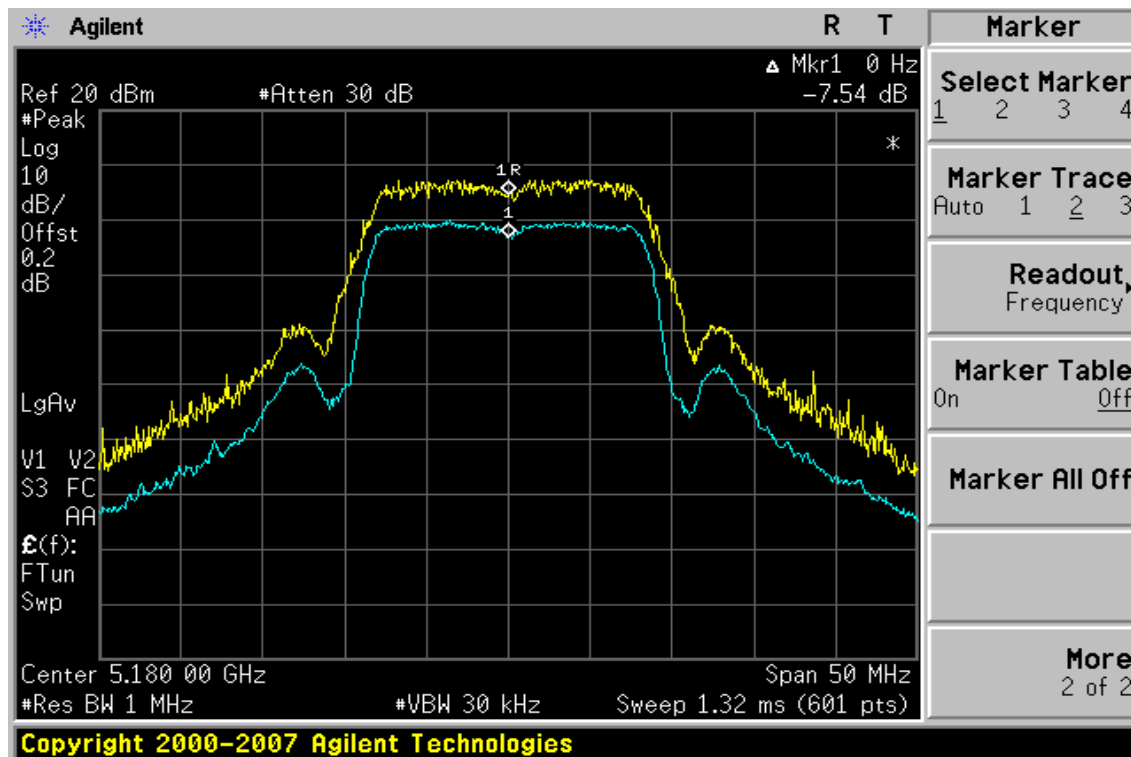
Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5190	6.00	13.00	-7.00
High	5230	6.96	13.00	-6.04

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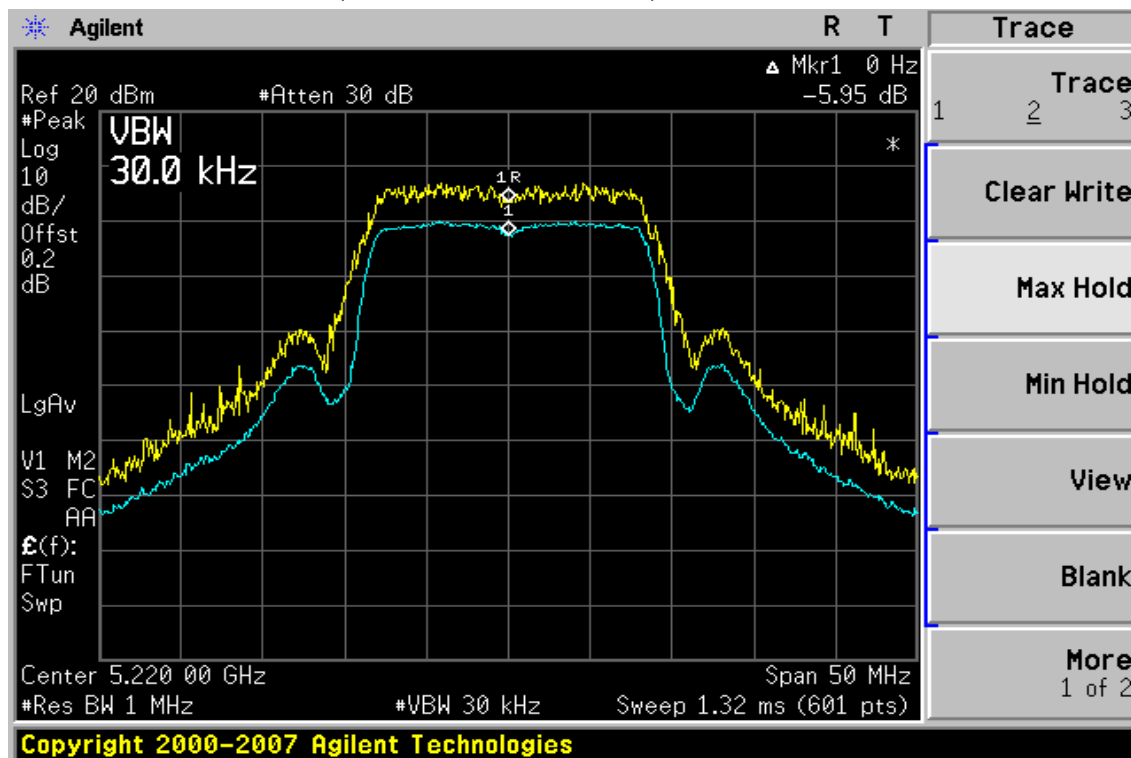
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UNII

Peak Excursion Data Plot (CH Low 5180 MHz)



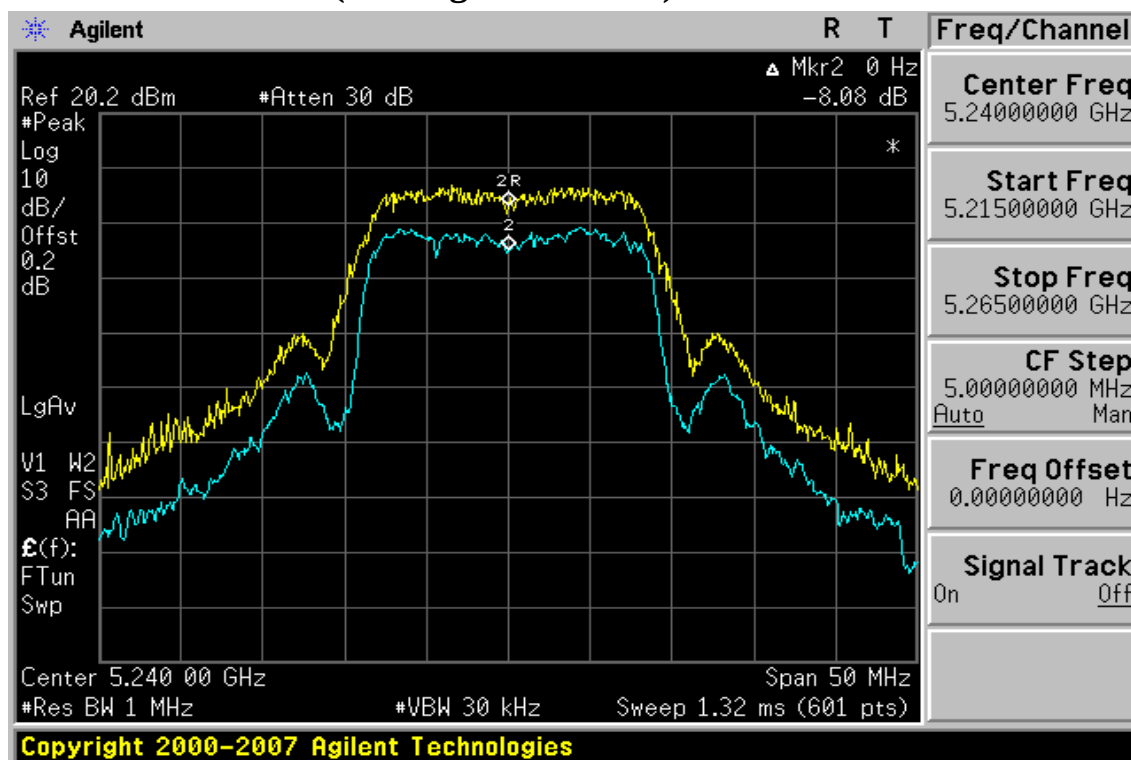
Peak Excursion Data Plot (CH Mid 5220 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)

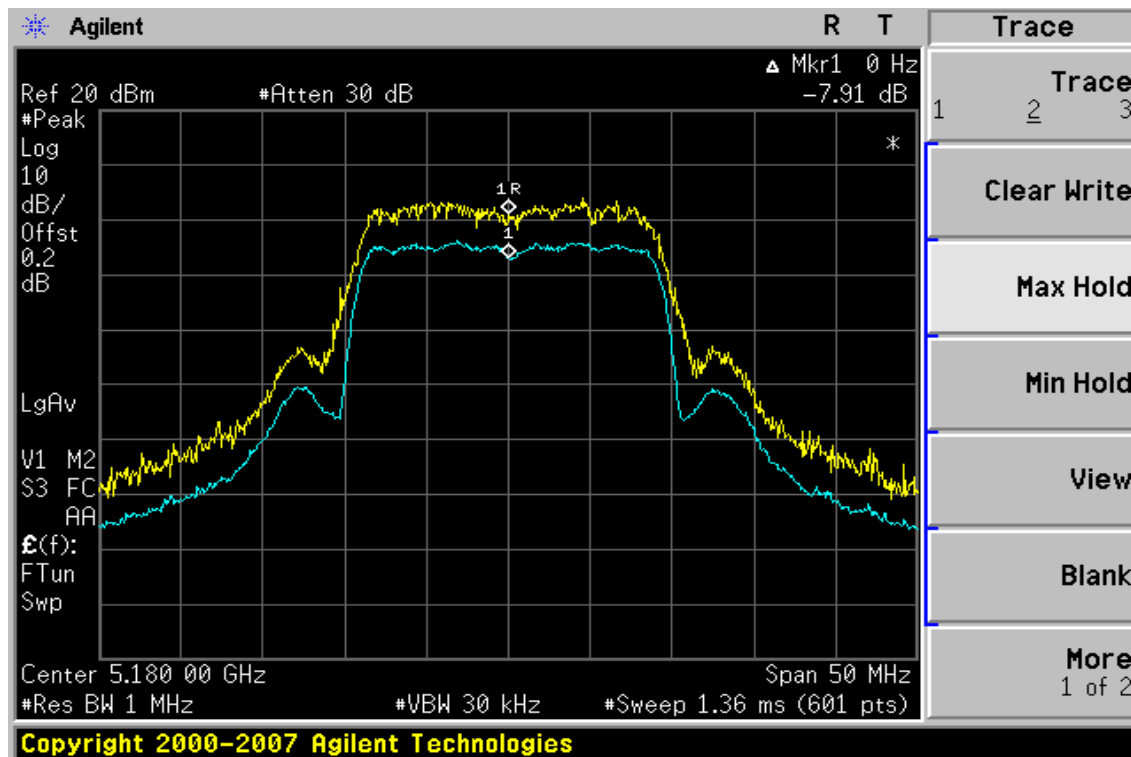


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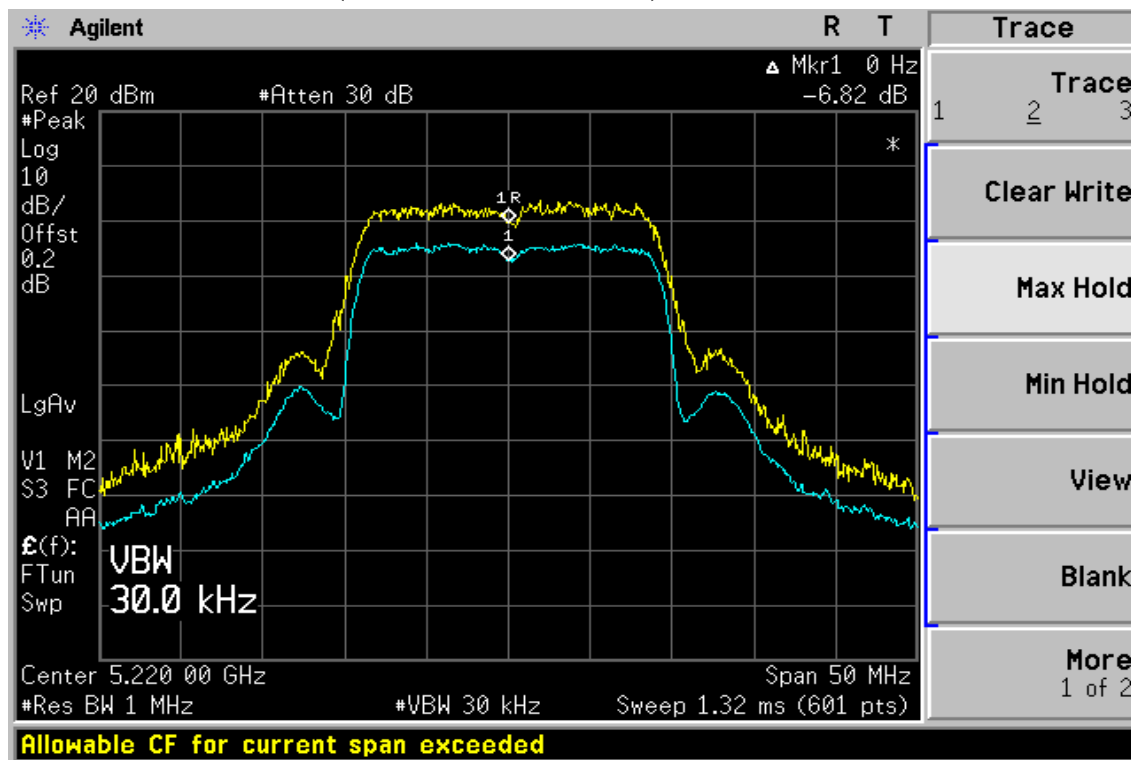
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UNII, HT20, Chain 0

Peak Excursion Data Plot (CH Low 5180 MHz)



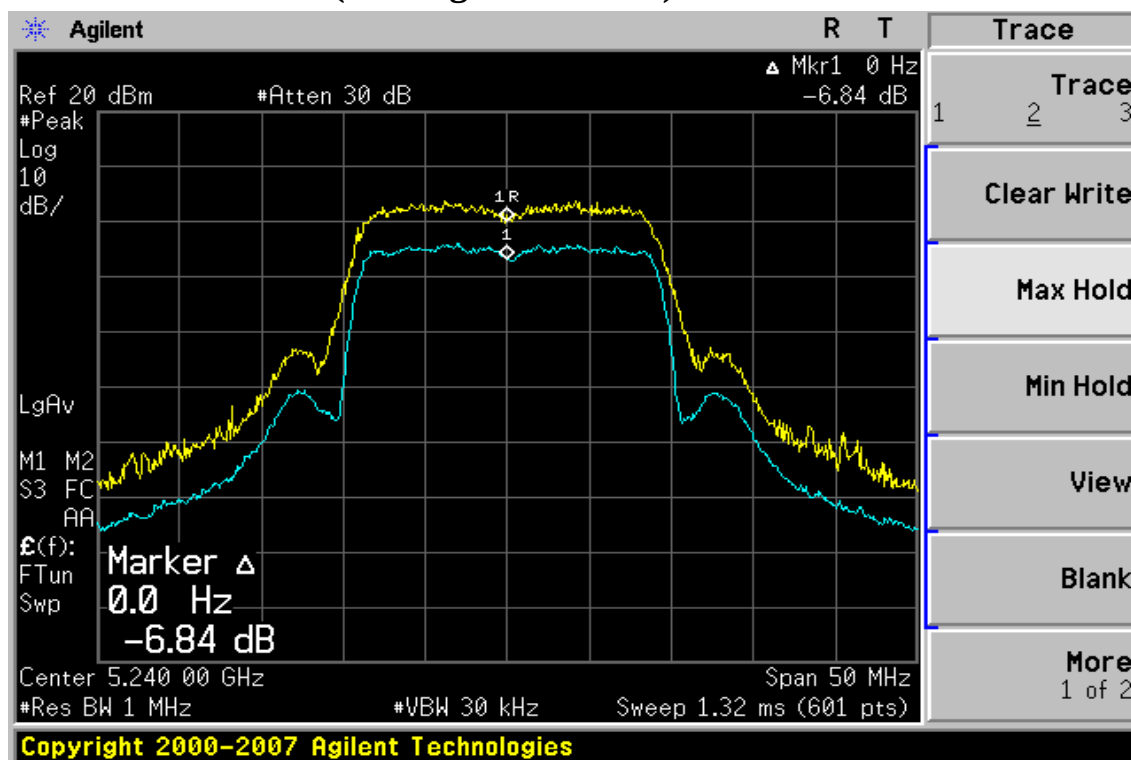
Peak Excursion Data Plot (CH Mid 5220 MHz)



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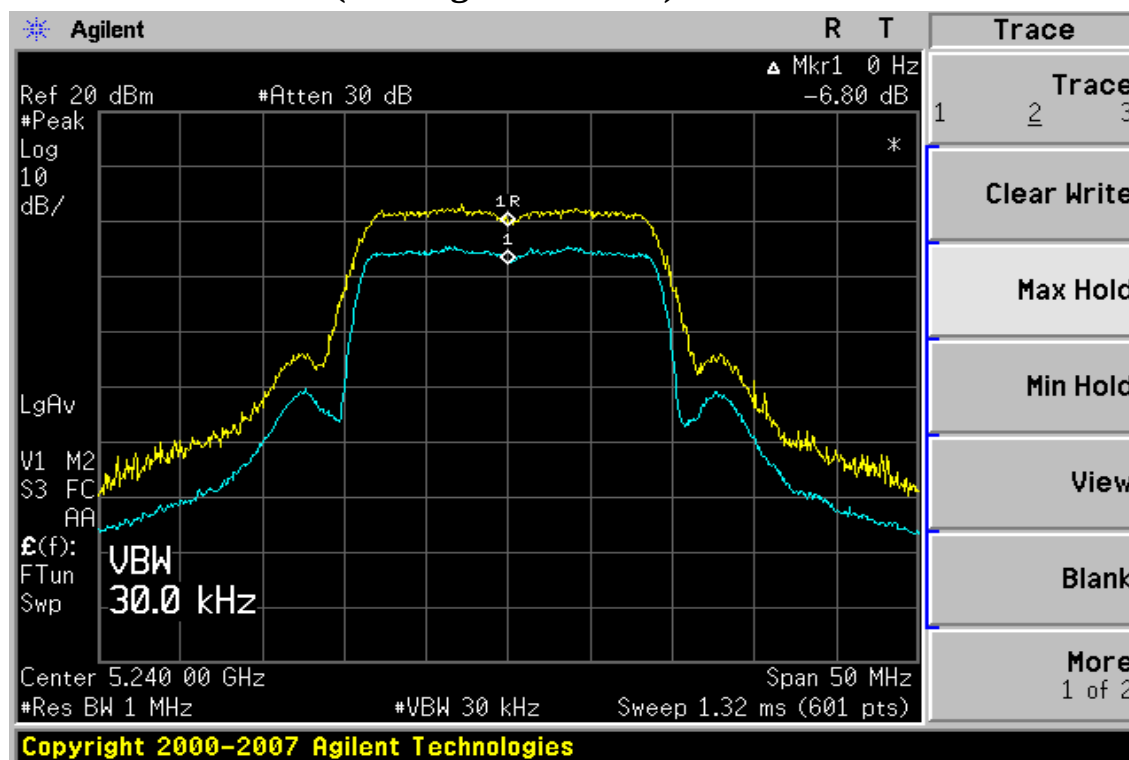
Peak Excursion Data Plot (CH High 5240 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)

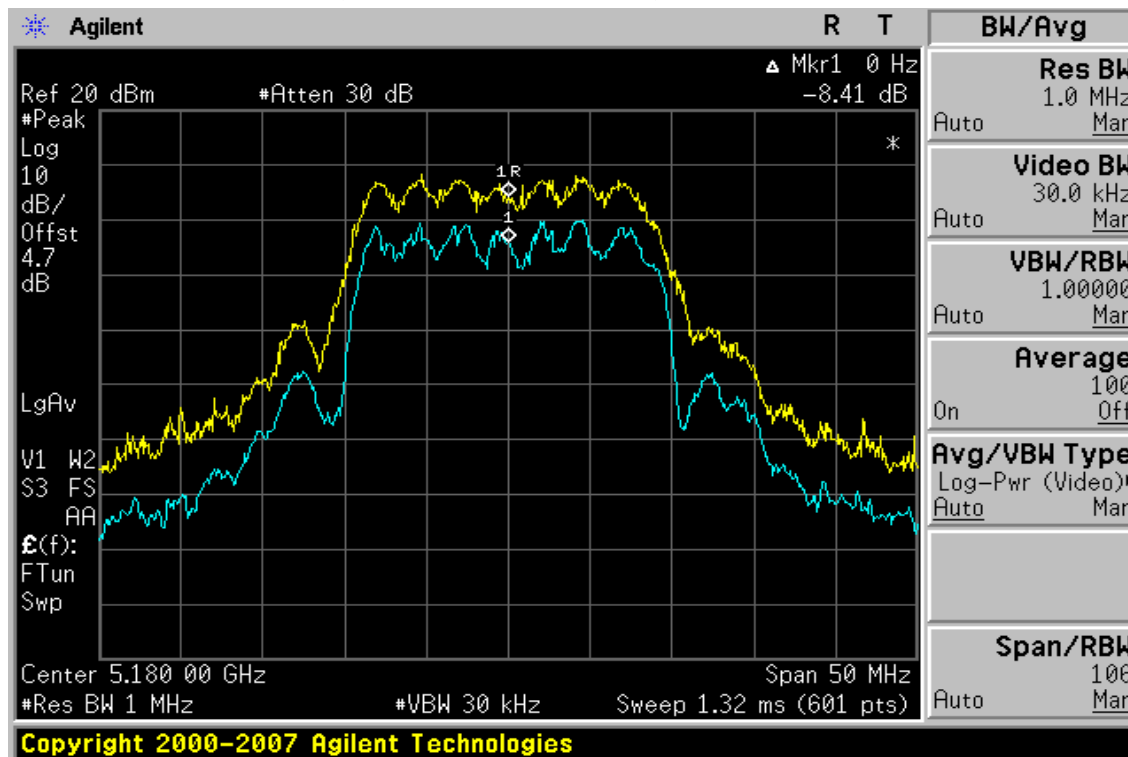


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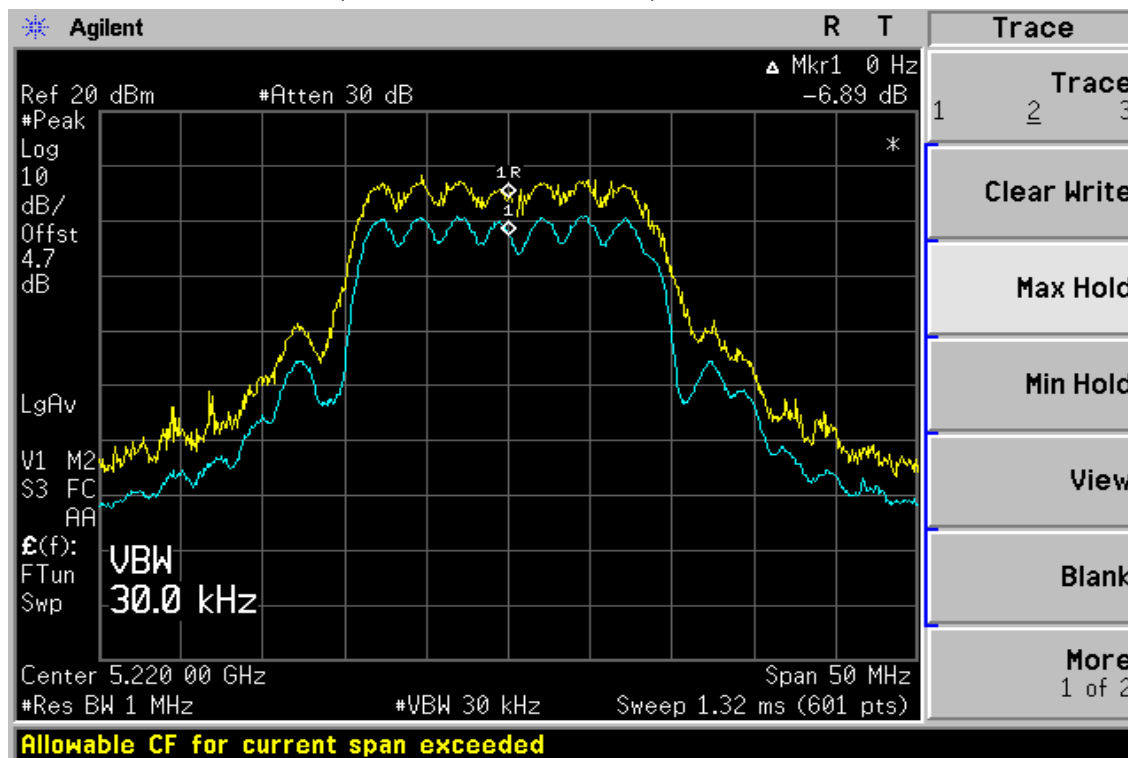
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UNII HT20, Comp

Peak Excursion Data Plot (CH Low 5180 MHz)



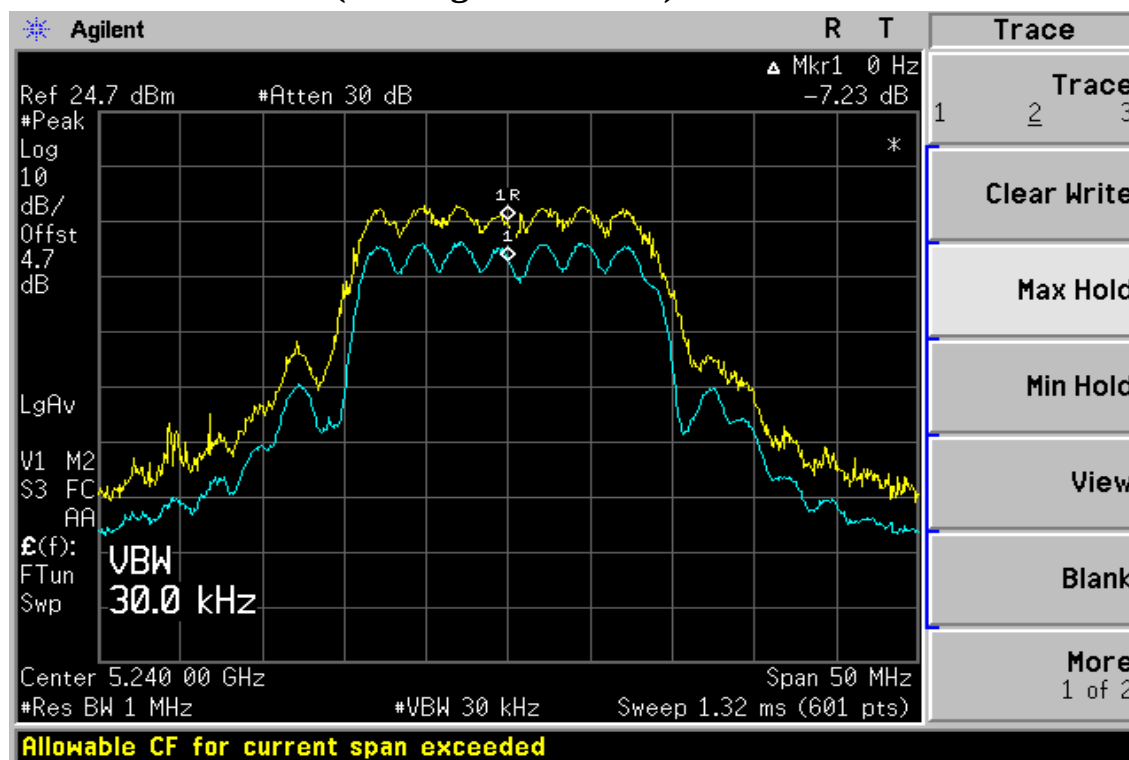
Peak Excursion Data Plot (CH Mid 5220 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)

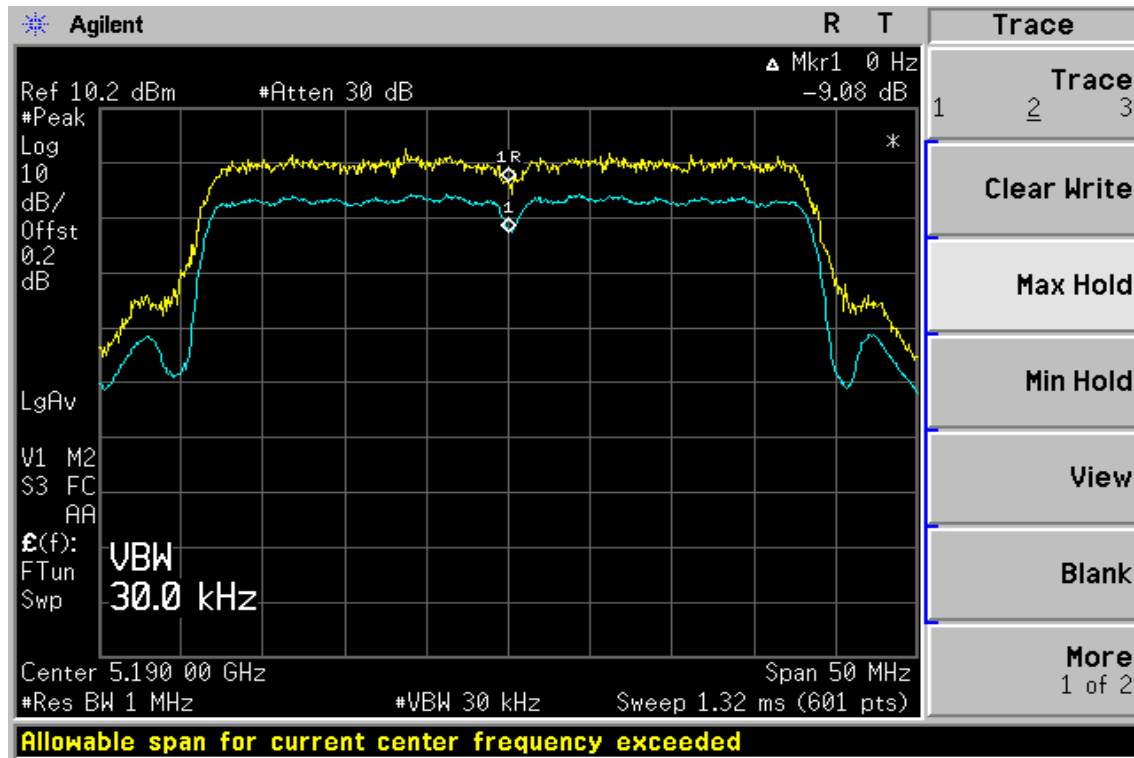


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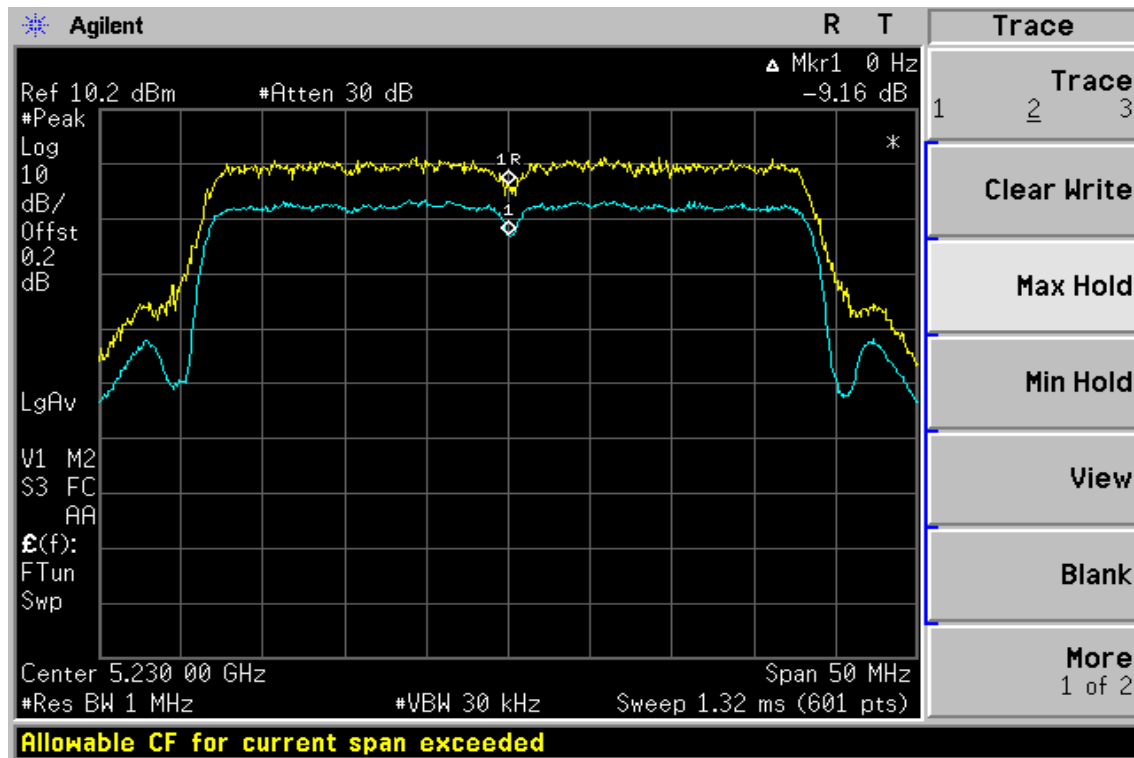
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UNII HT40, Chain 0

Peak Excursion Data Plot (CH Low 5190 MHz)



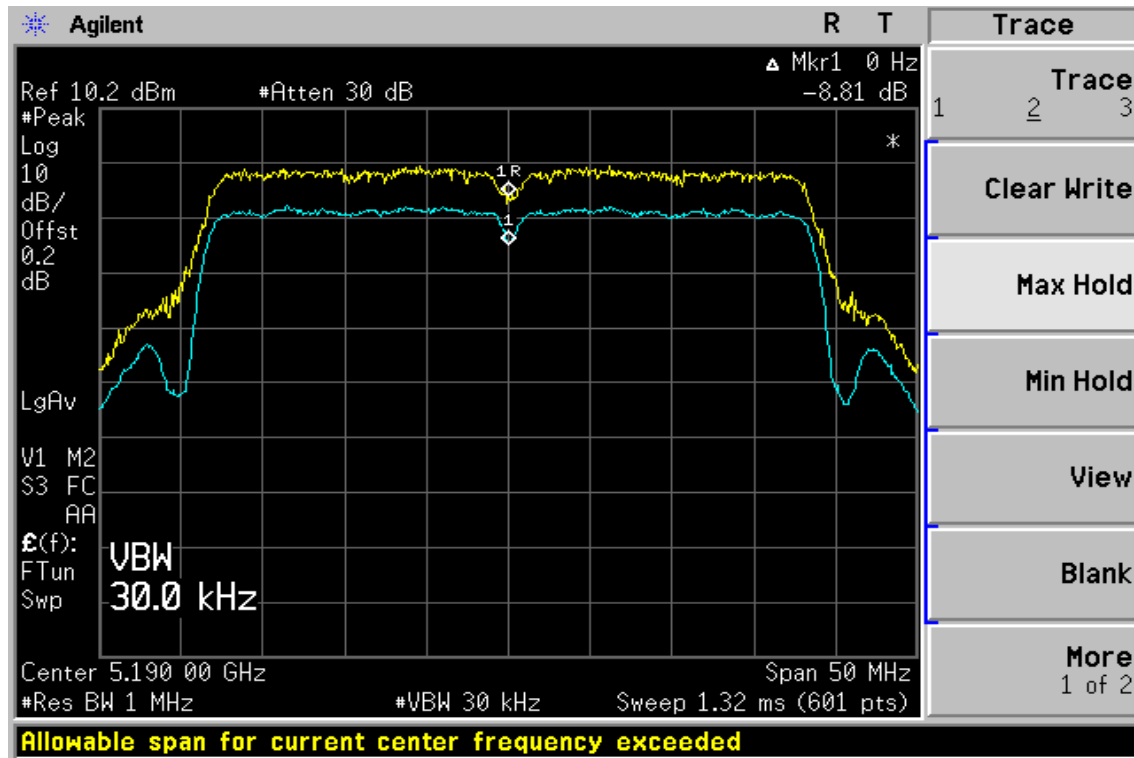
Peak Excursion Data Plot (CH High 5230 MHz)



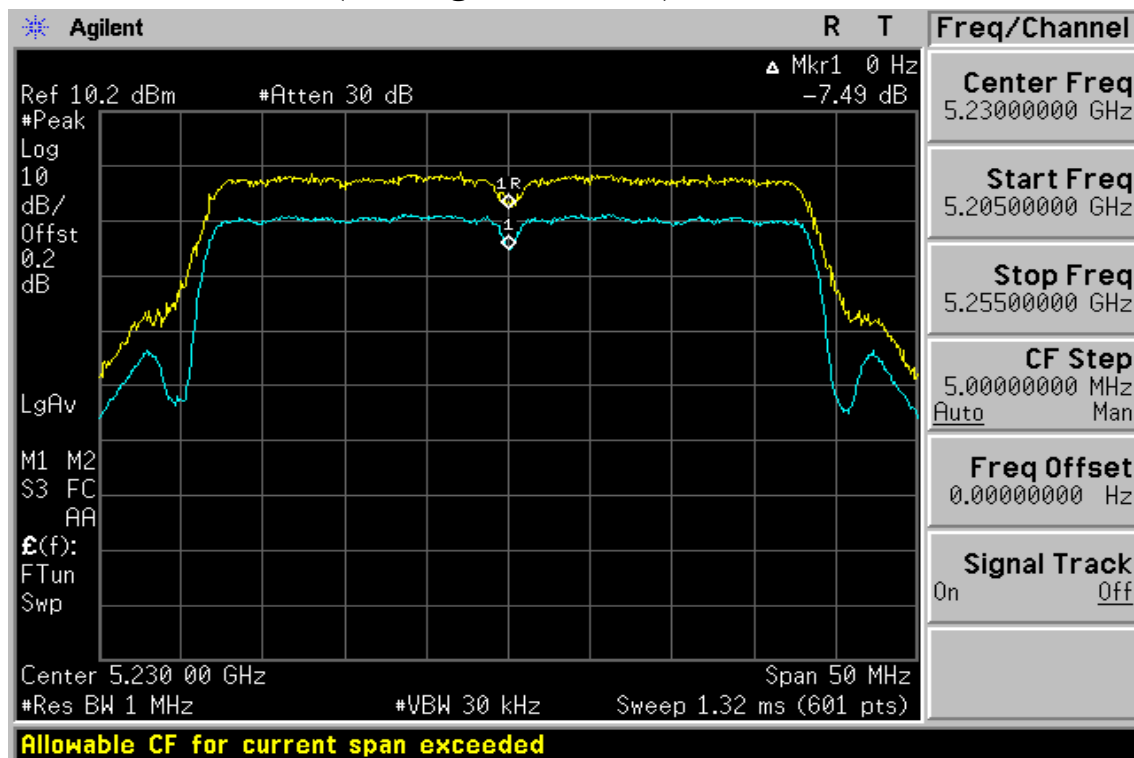
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UNII HT40, Chain 1 Peak Excursion Data Plot (CH Low 5190 MHz)



Peak Excursion Data Plot (CH High 5230 MHz)

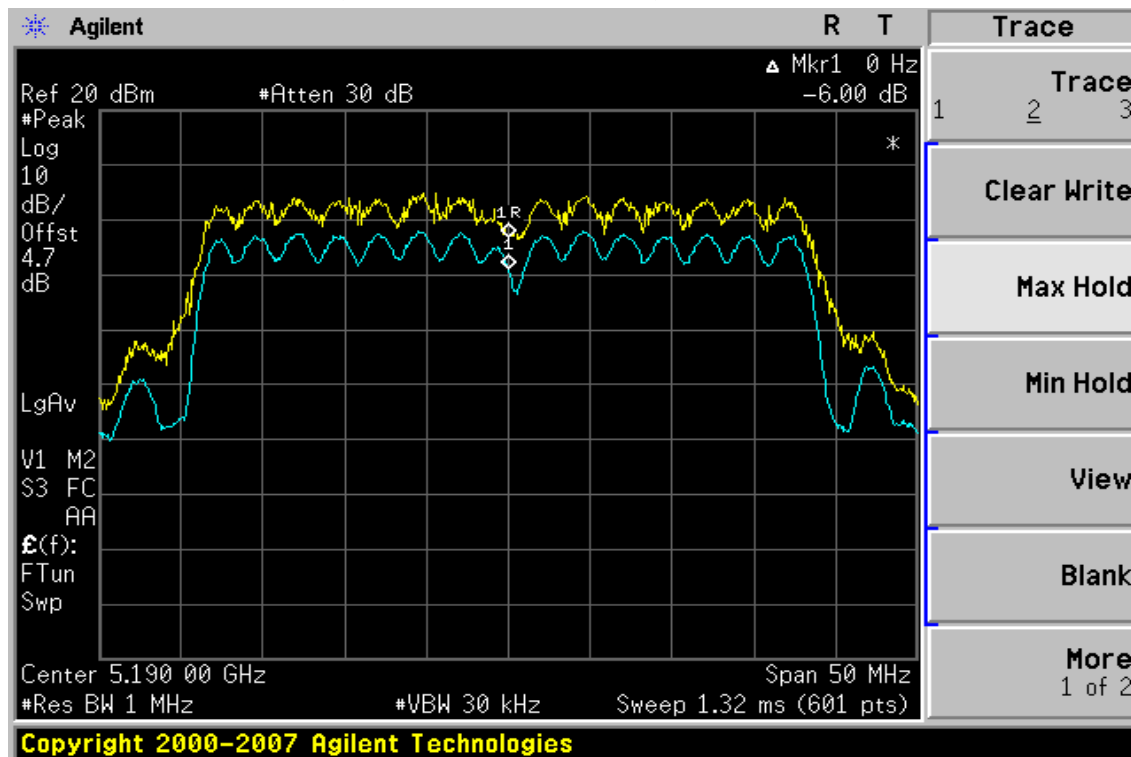


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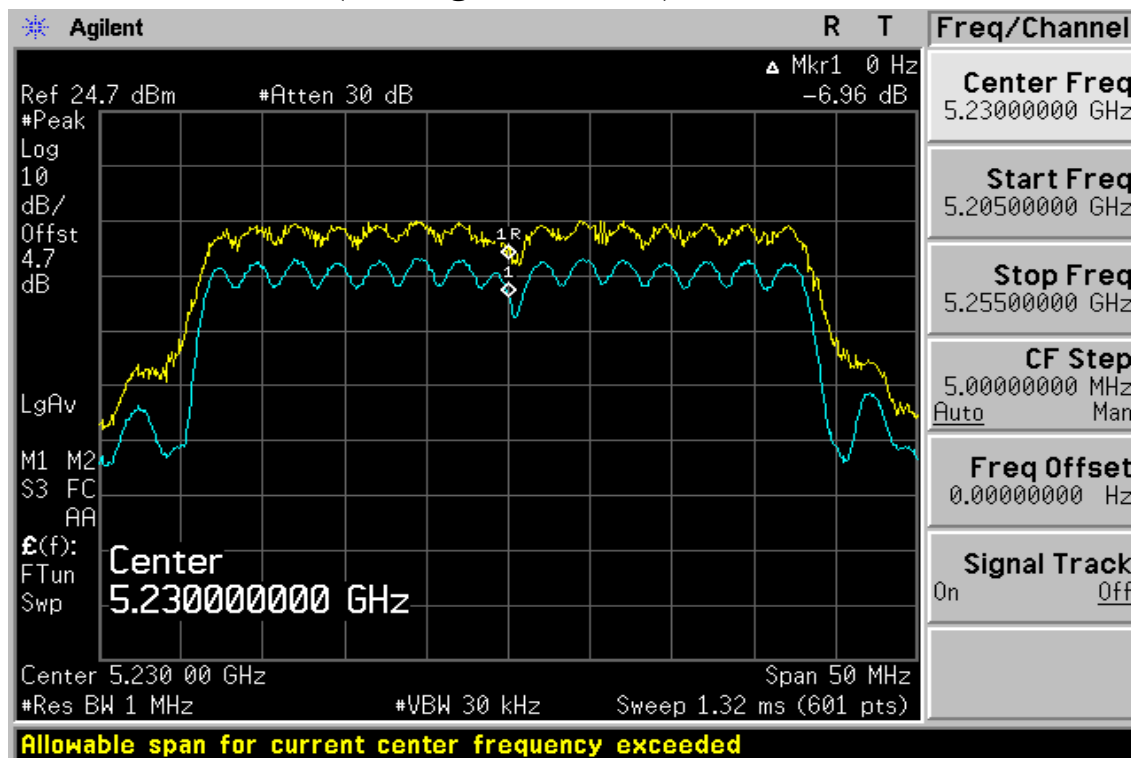
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UNII HT40, Comp

Peak Excursion Data Plot (CH Low 5190 MHz)



Peak Excursion Data Plot (CH High 5230 MHz)



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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:

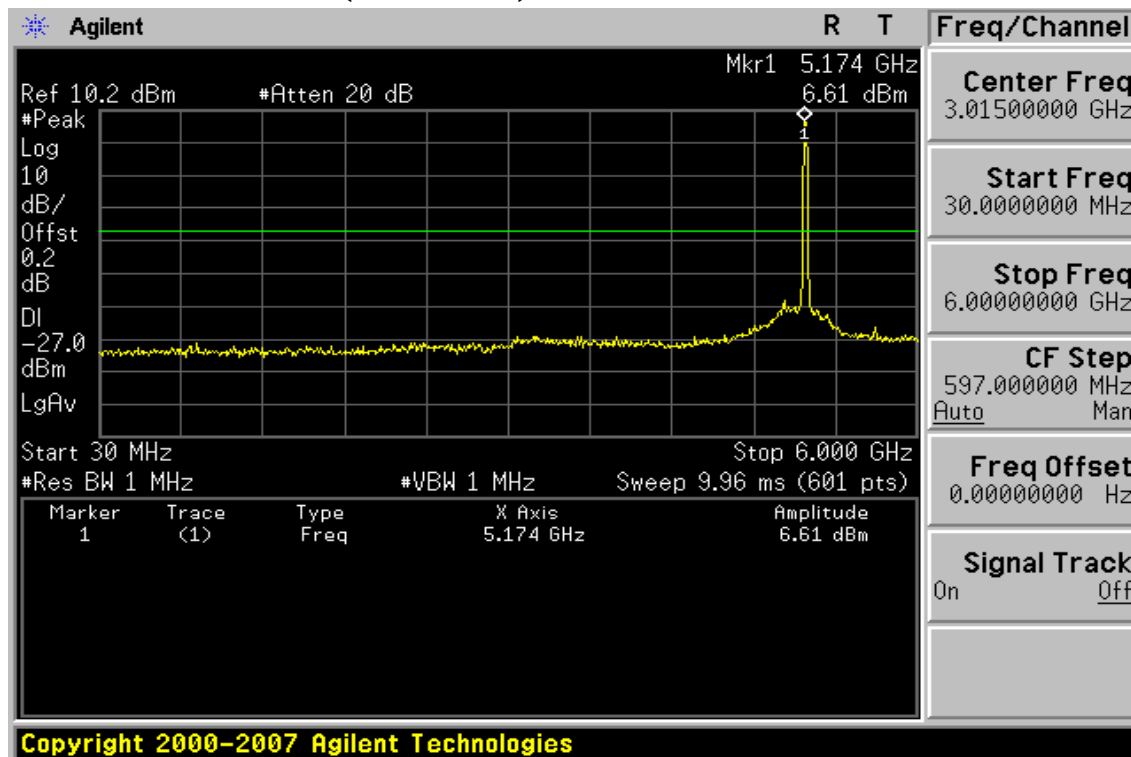
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010

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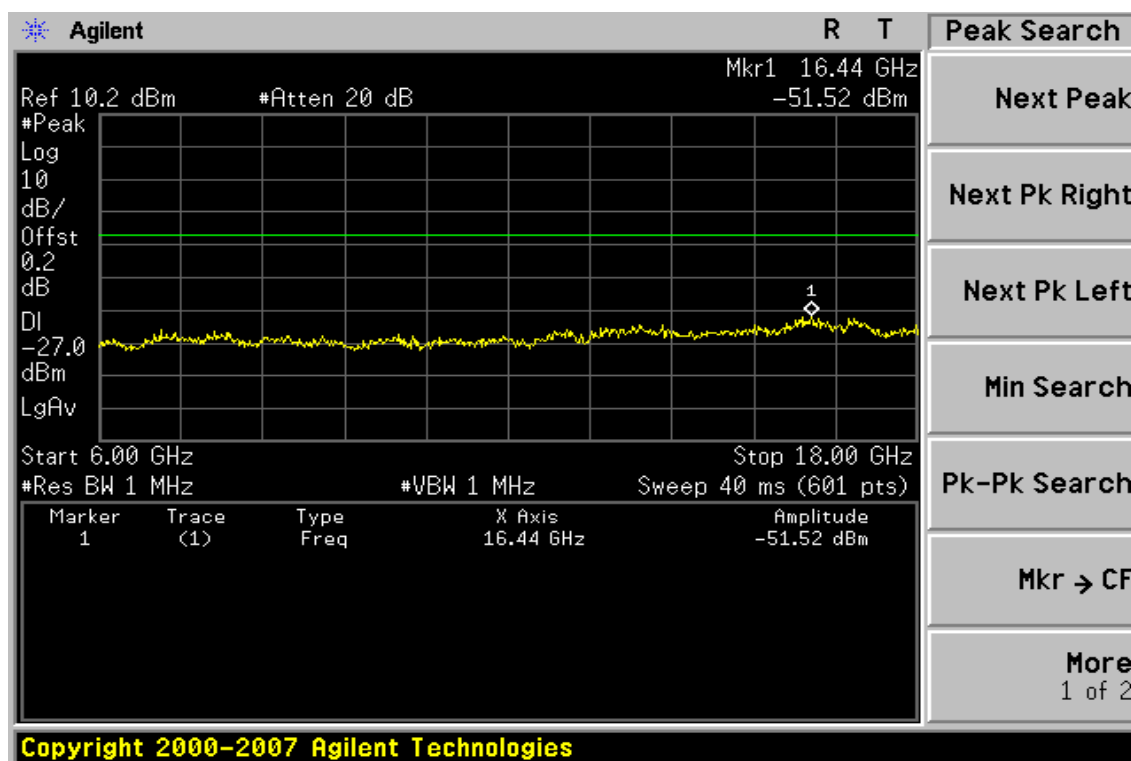
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UNII

Ch Low 30MHz – 6GHz (5180 MHz)



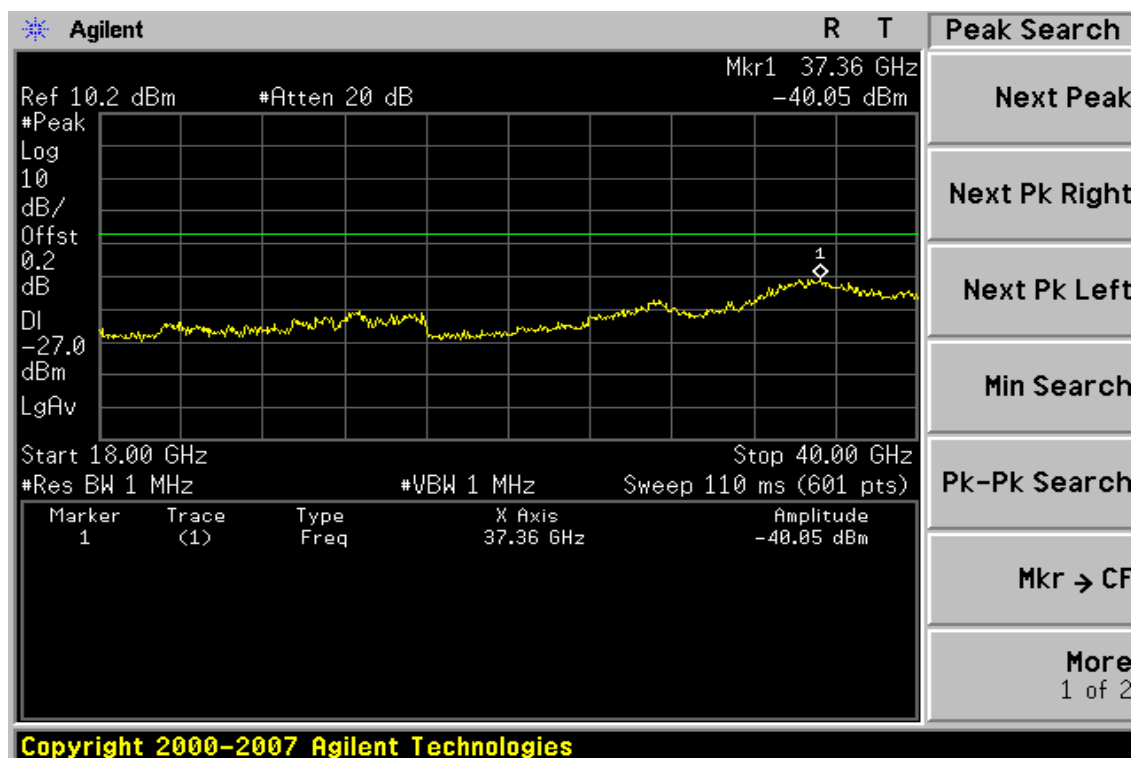
Ch Low 6GHz – 18GHz



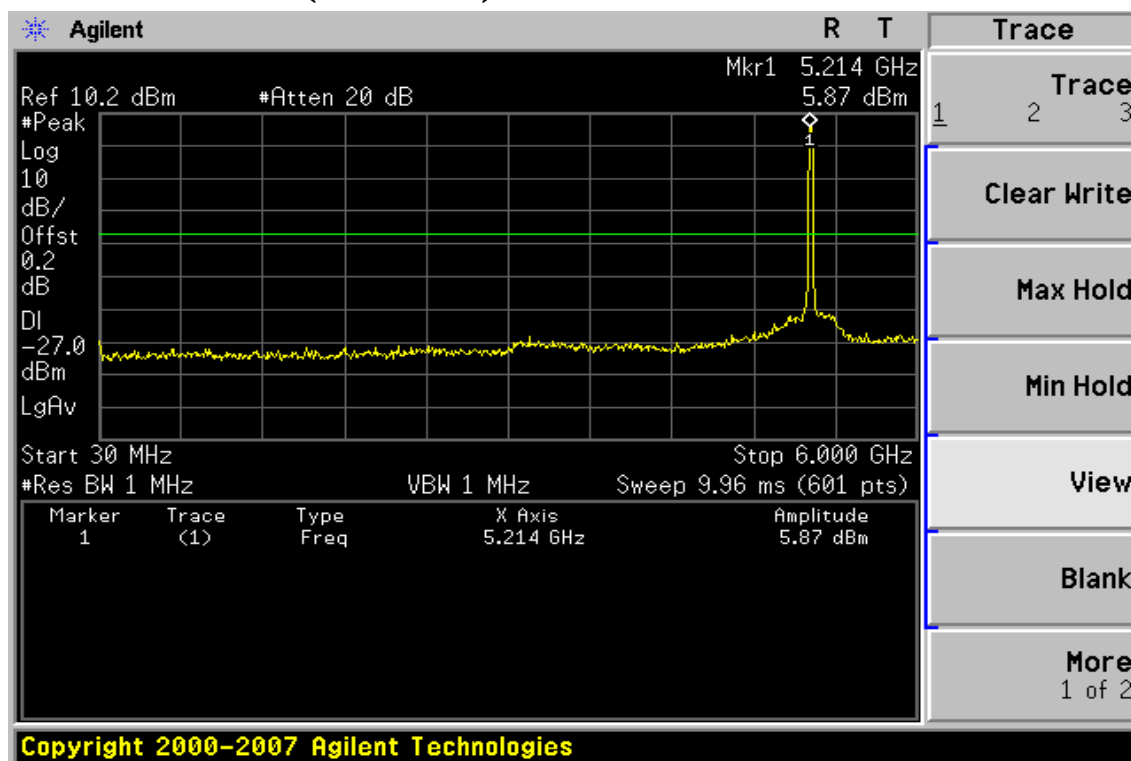
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Ch Low 18GHz – 40GHz



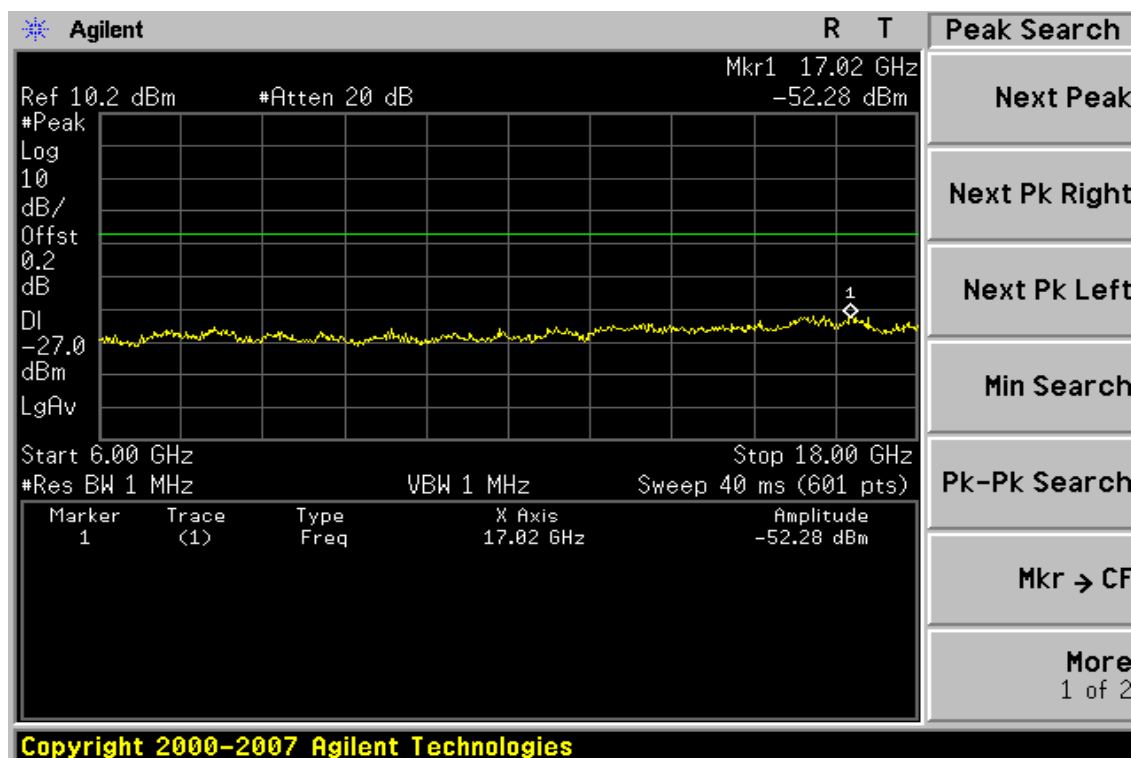
Ch Mid 30MHz – 6GHz (5220 MHz)



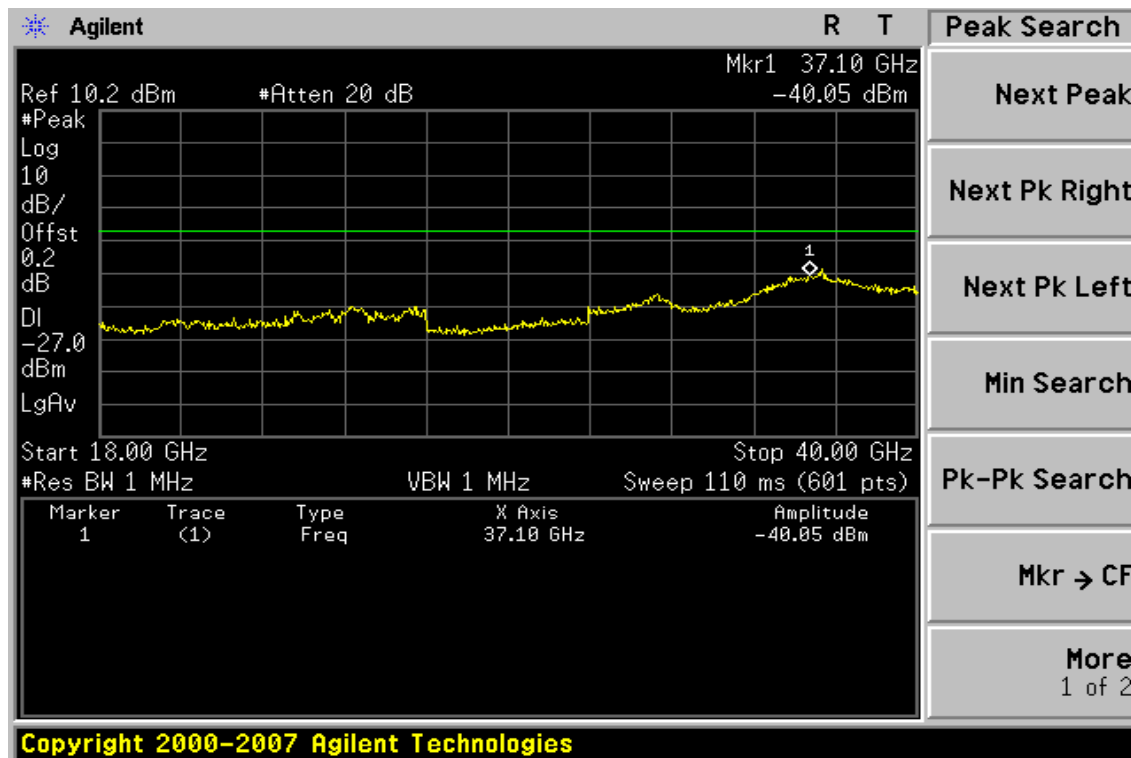
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Ch Mid 6GHz – 18GHz



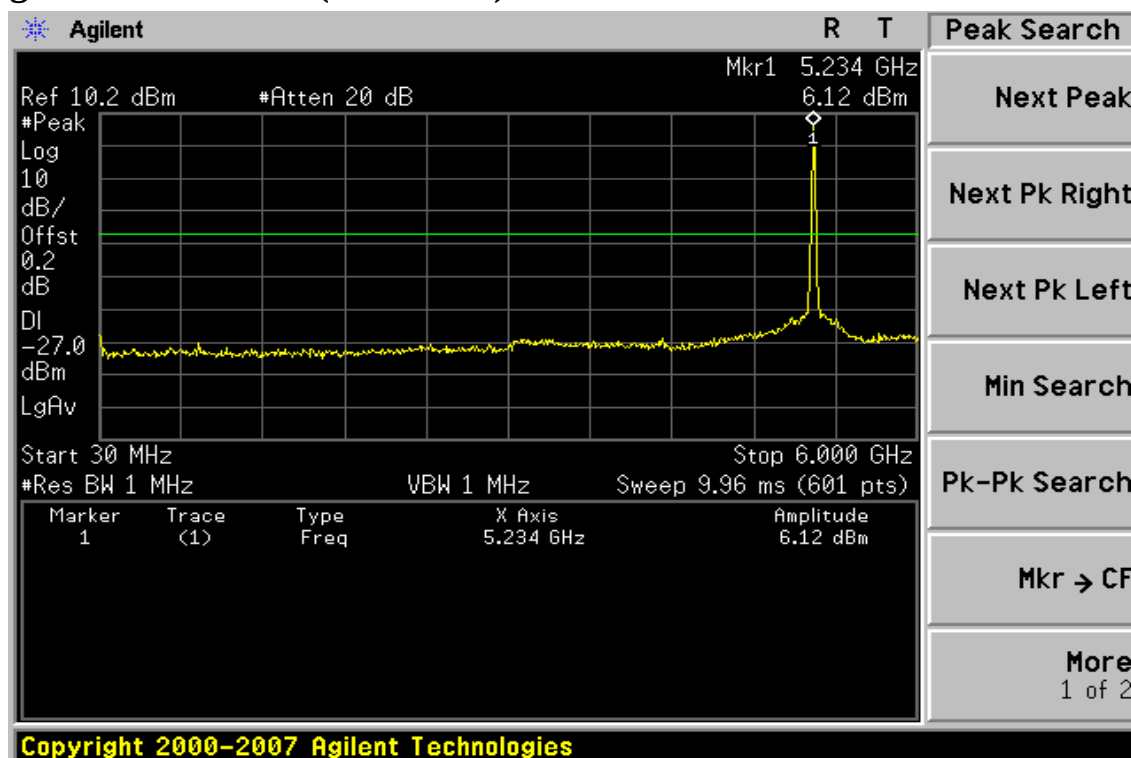
Ch Mid 18GHz – 40GHz



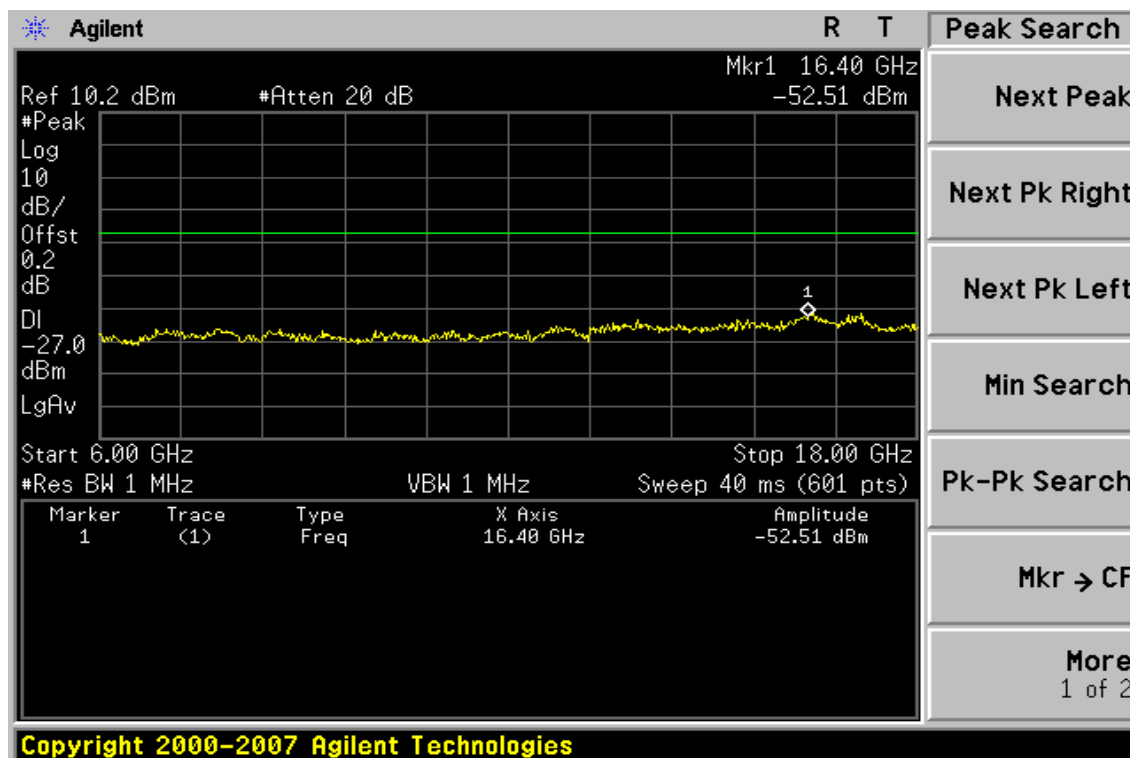
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Ch High 30MHz – 6GHz (5240 MHz)



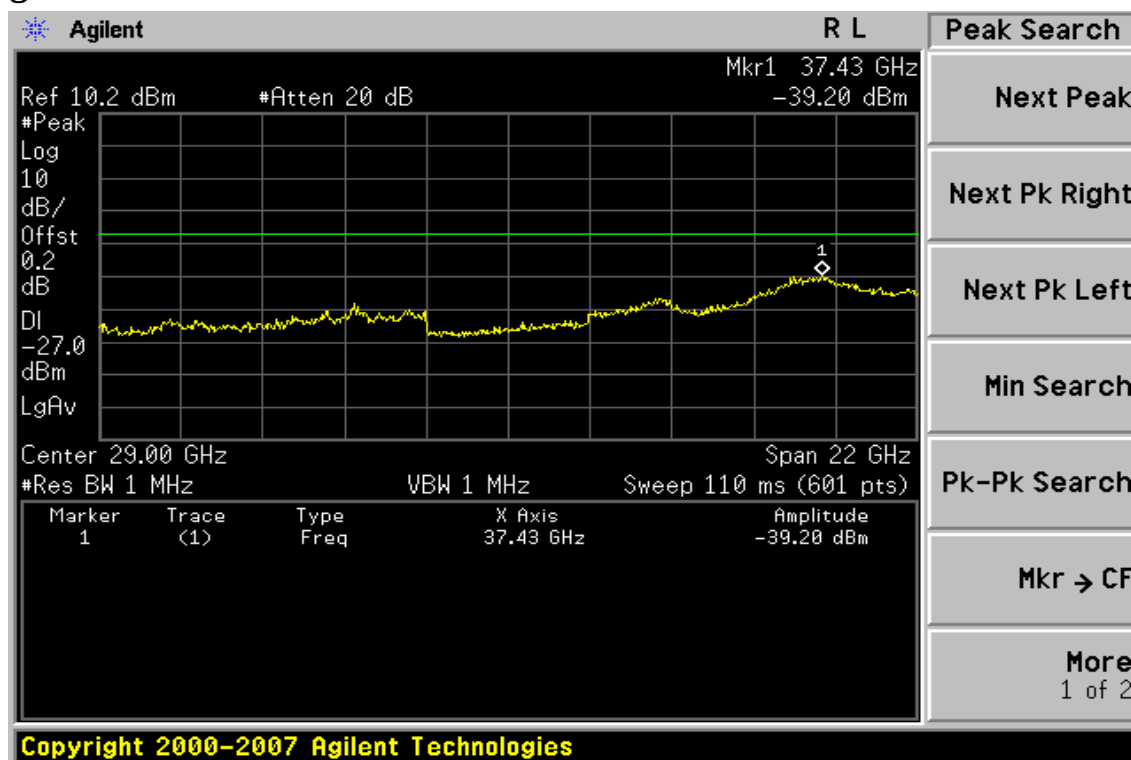
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

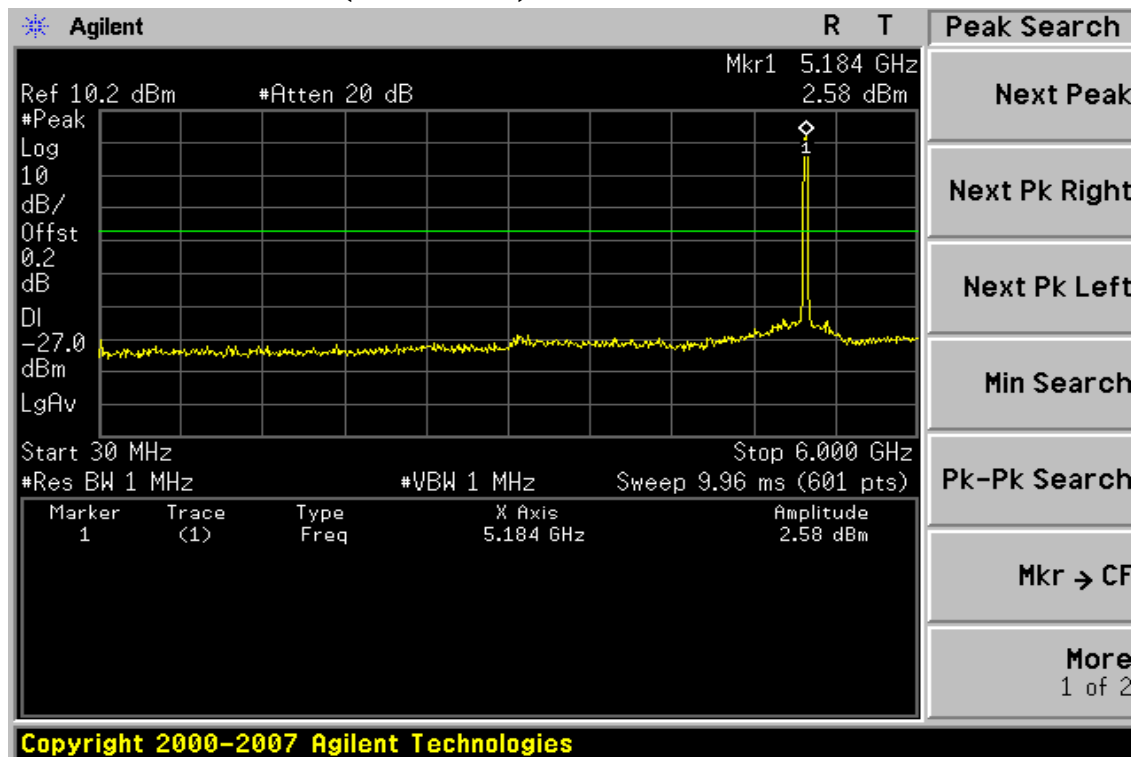


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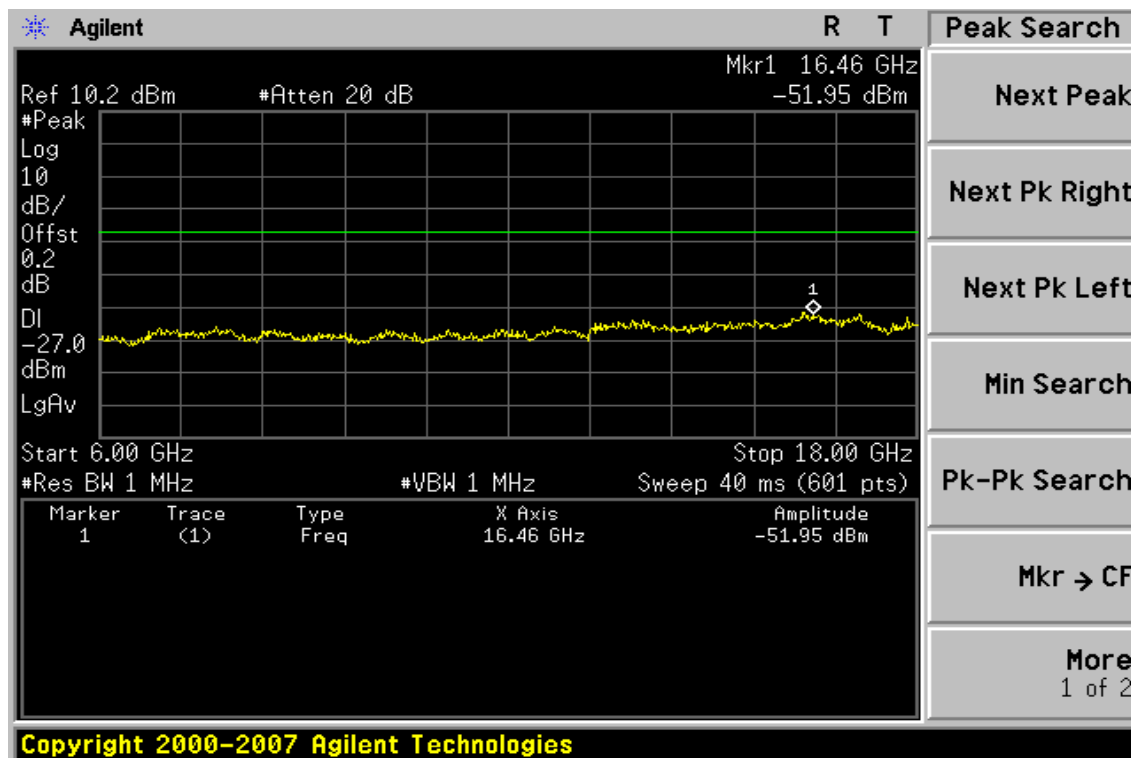
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UNII HT20, Chain 0

Ch Low 30MHz – 6GHz (5180 MHz)



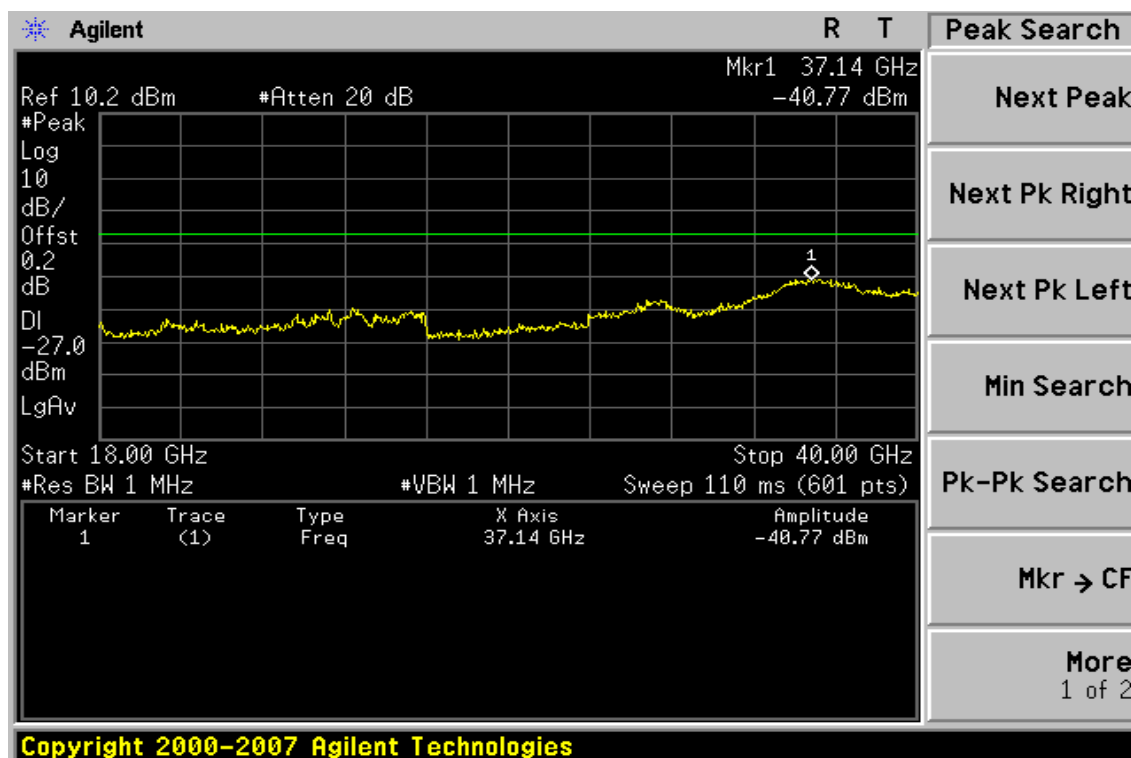
Ch Low 6GHz – 18GHz



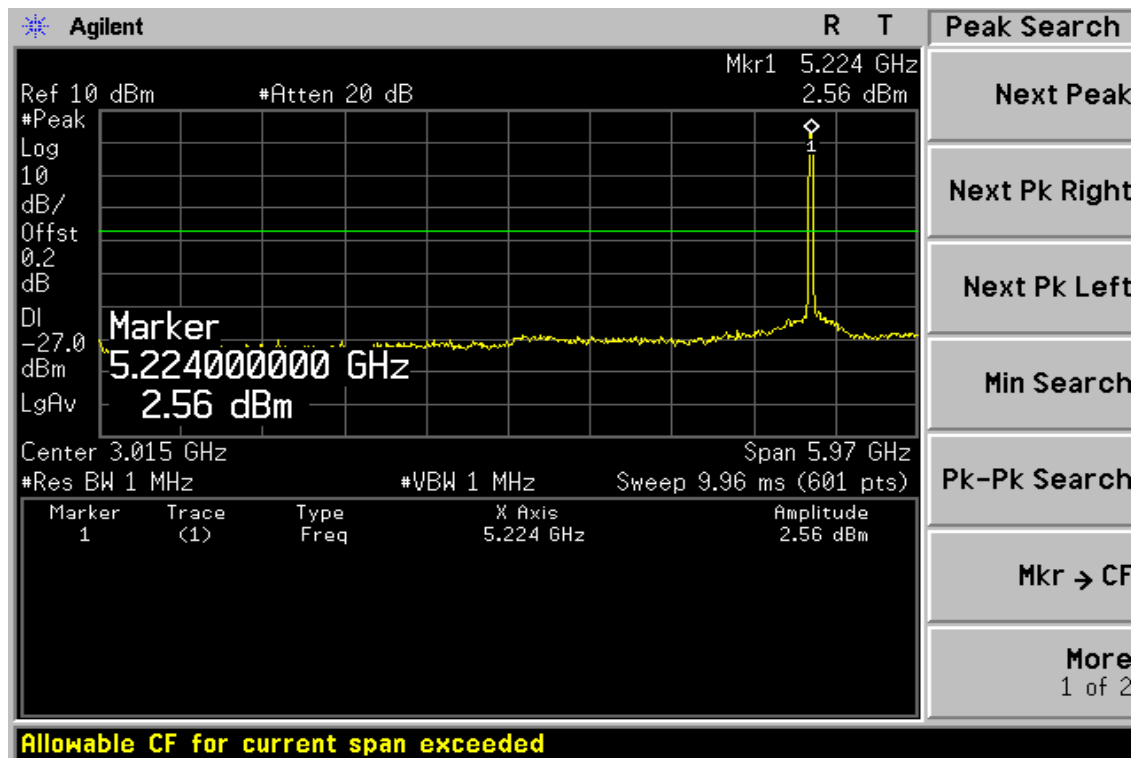
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Ch Low 18GHz – 40GHz



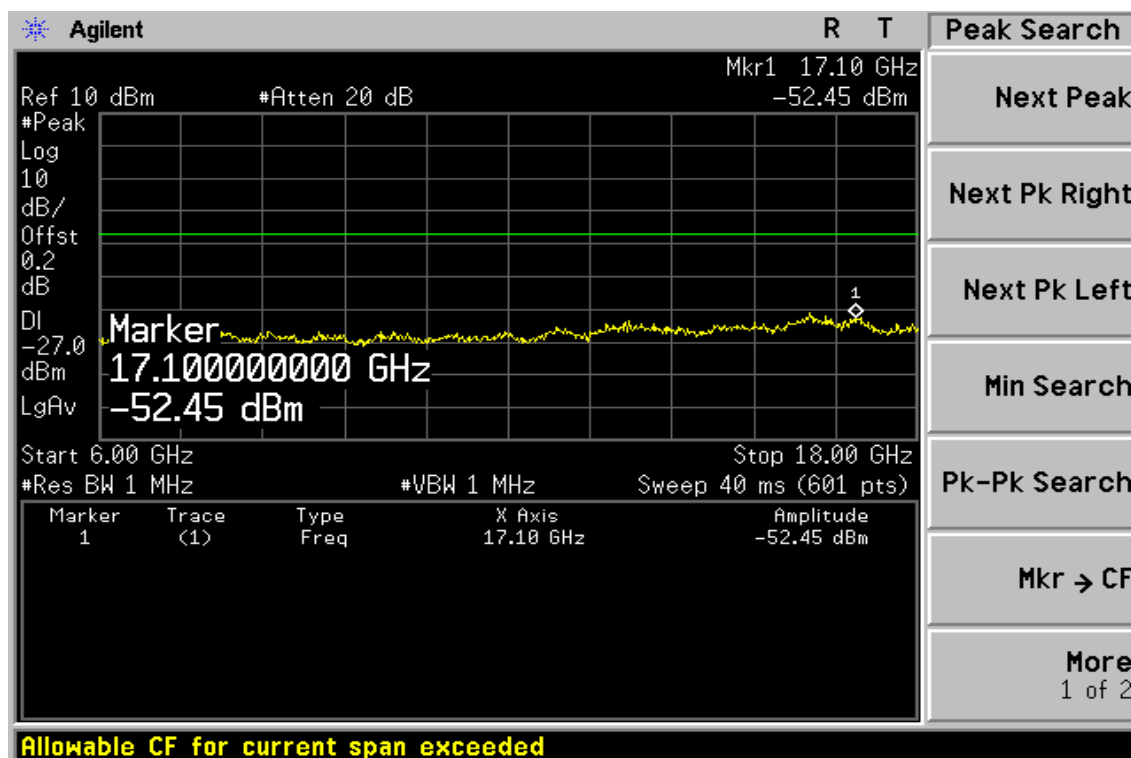
Ch Mid 30MHz – 6GHz (5220 MHz)



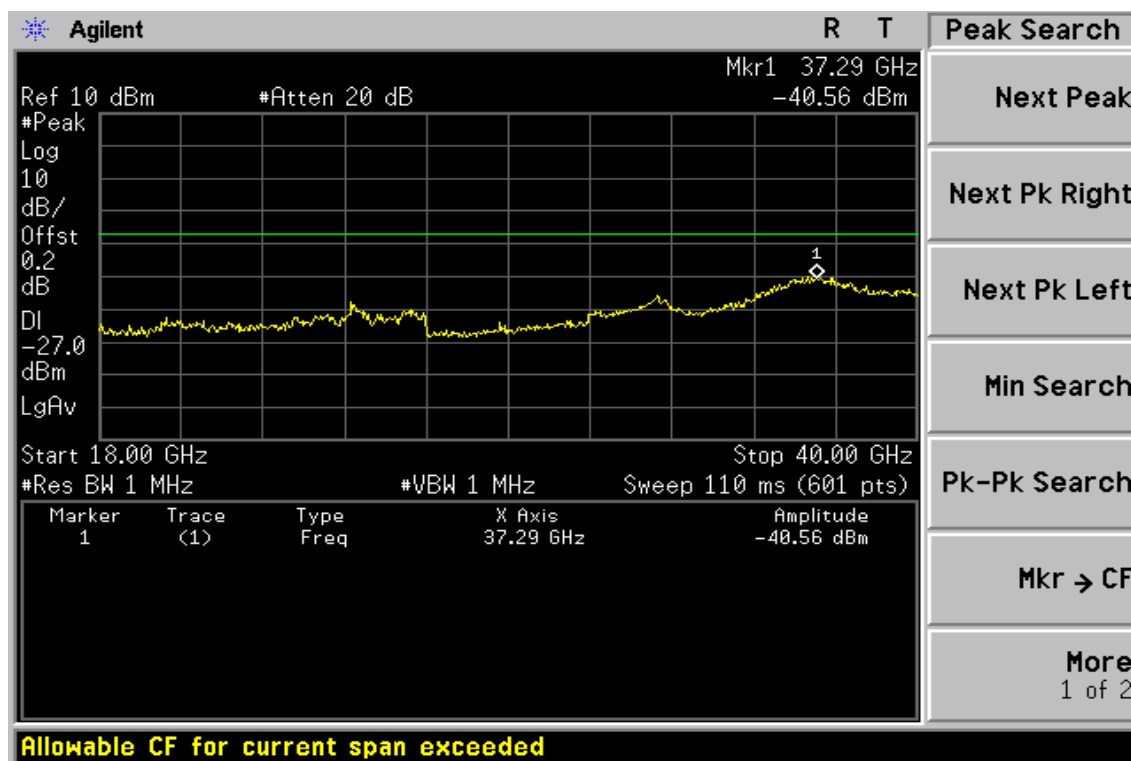
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Ch Mid 6GHz – 18GHz



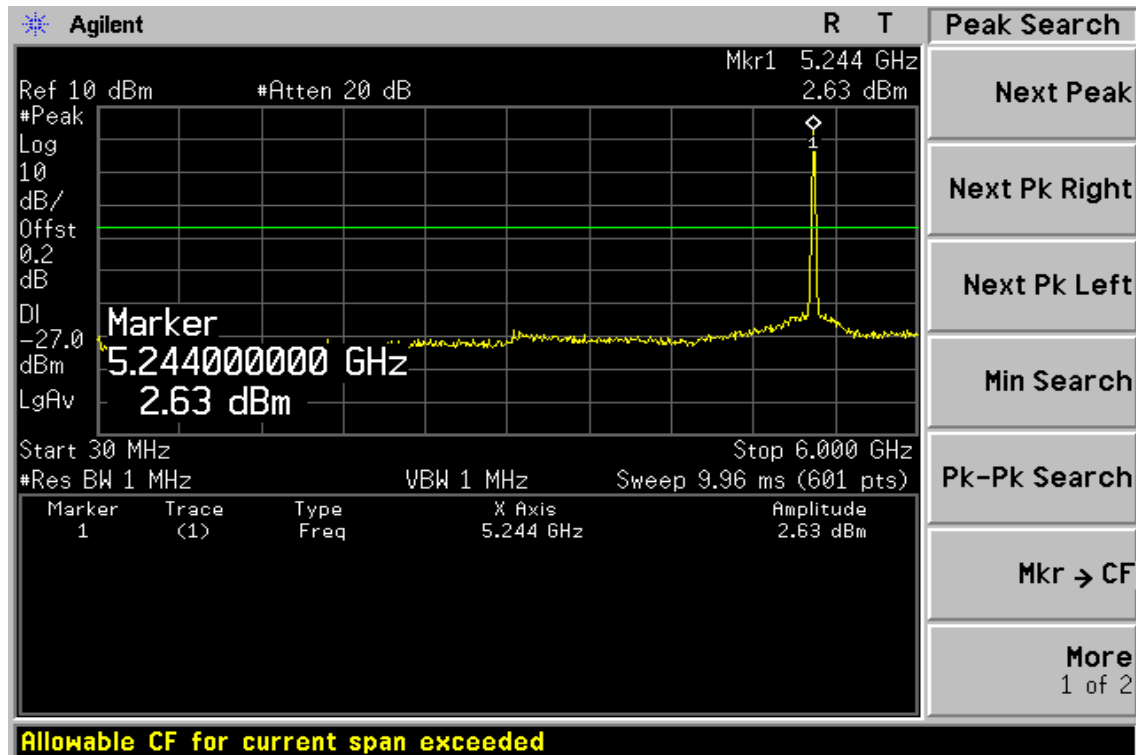
Ch Mid 18GHz – 40GHz



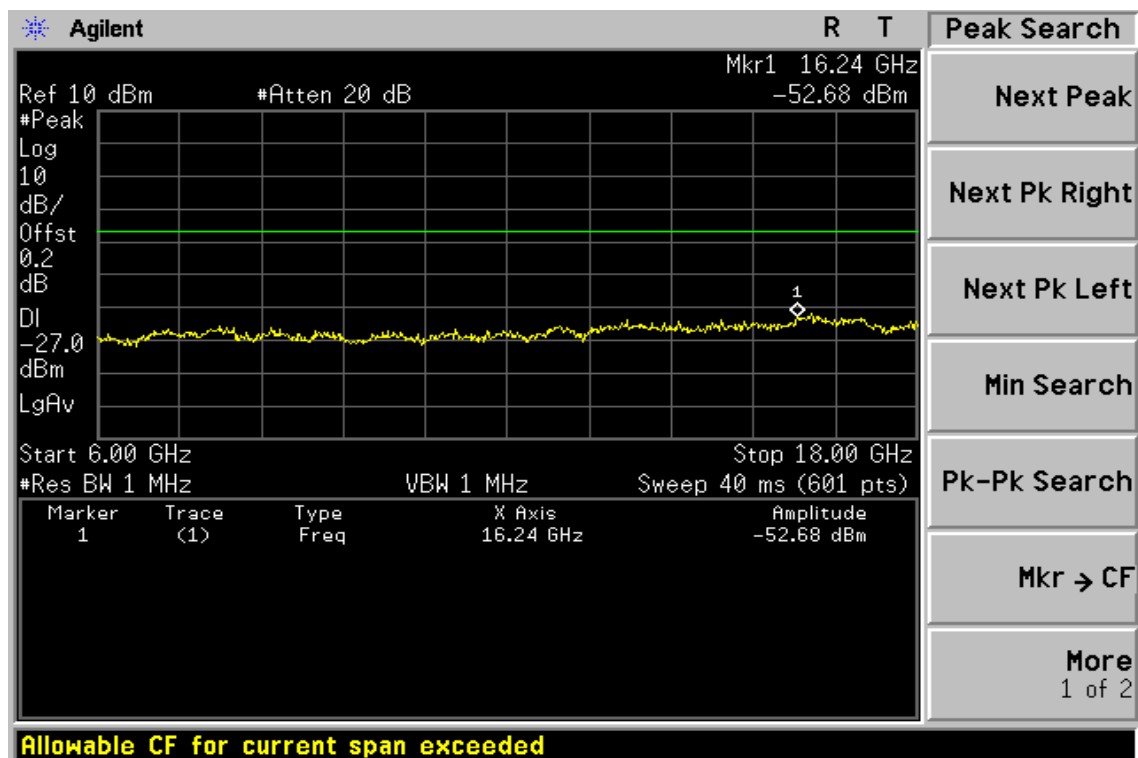
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Ch High 30MHz – 6GHz (5240 MHz)



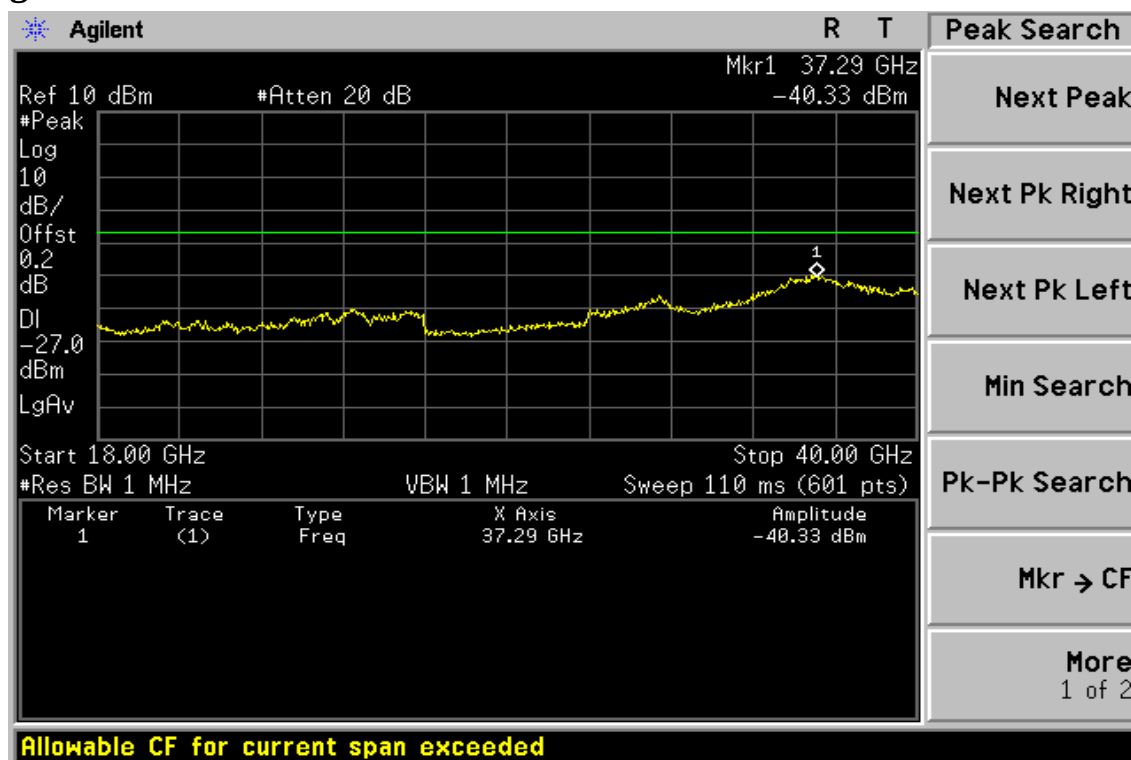
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

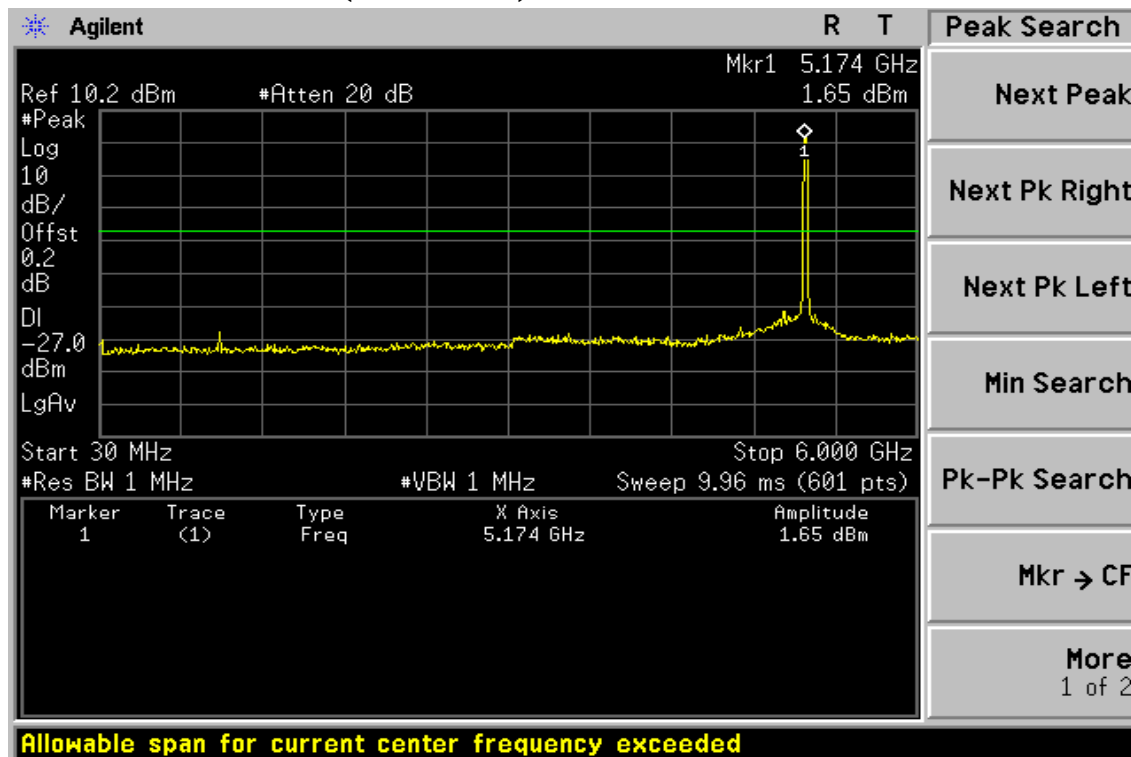


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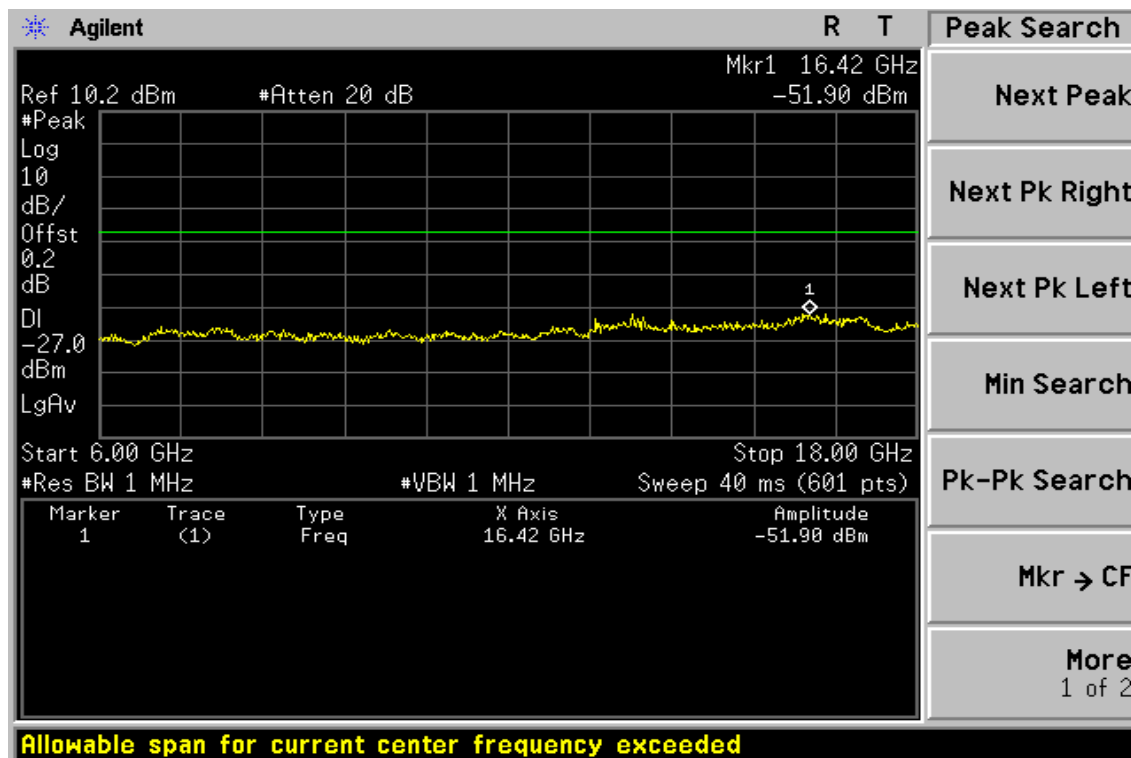
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UNII HT20, Chain 1

Ch Low 30MHz – 6GHz (5180 MHz)



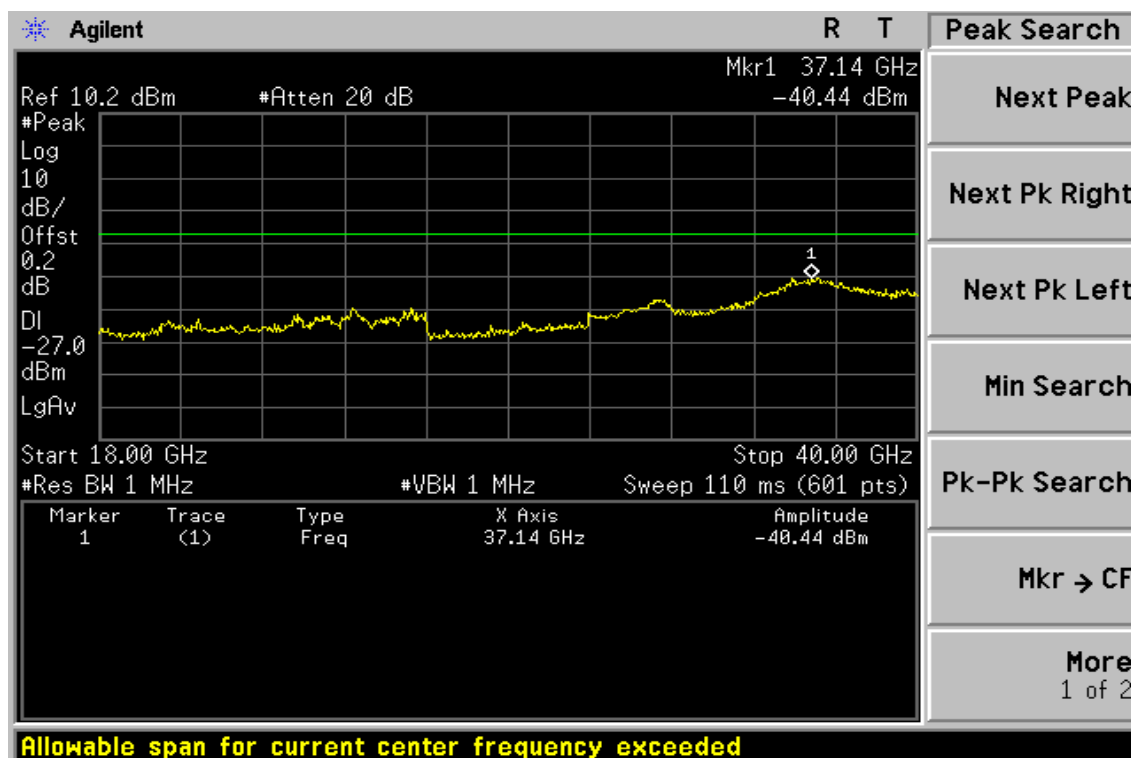
Ch Low 6GHz – 18GHz



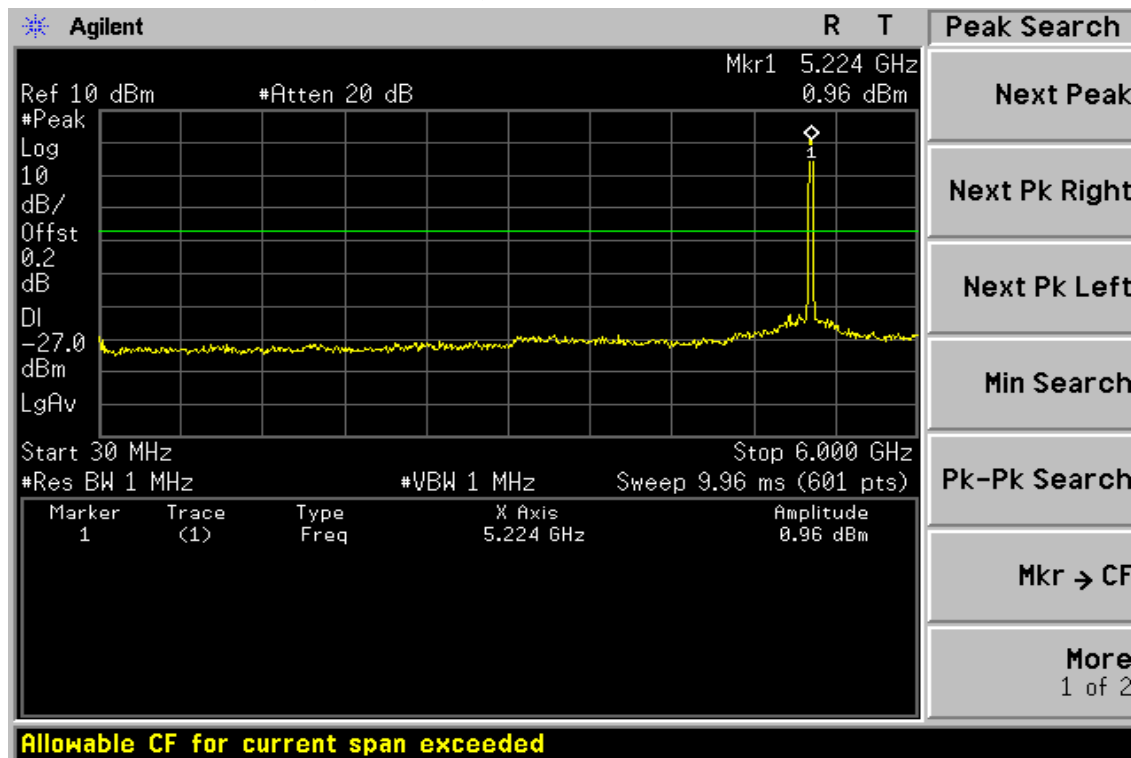
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Ch Low 18GHz – 40GHz



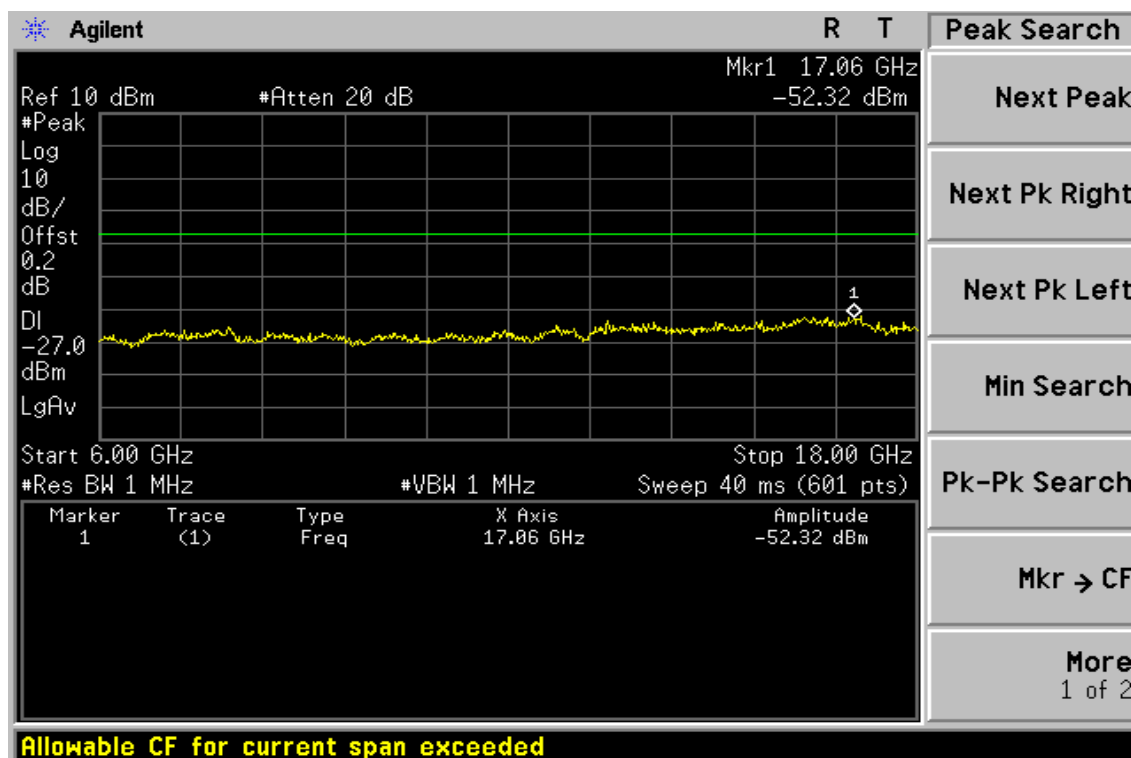
Ch Mid 30MHz – 6GHz (5220 MHz)



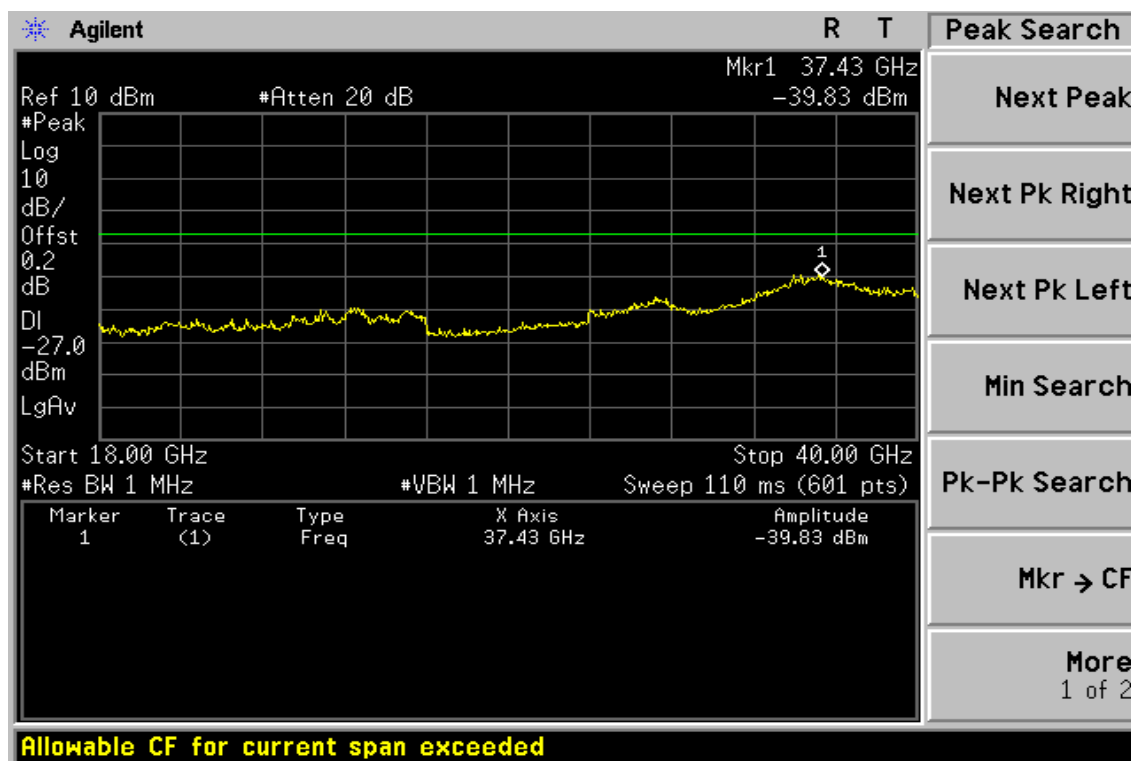
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Ch Mid 6GHz – 18GHz



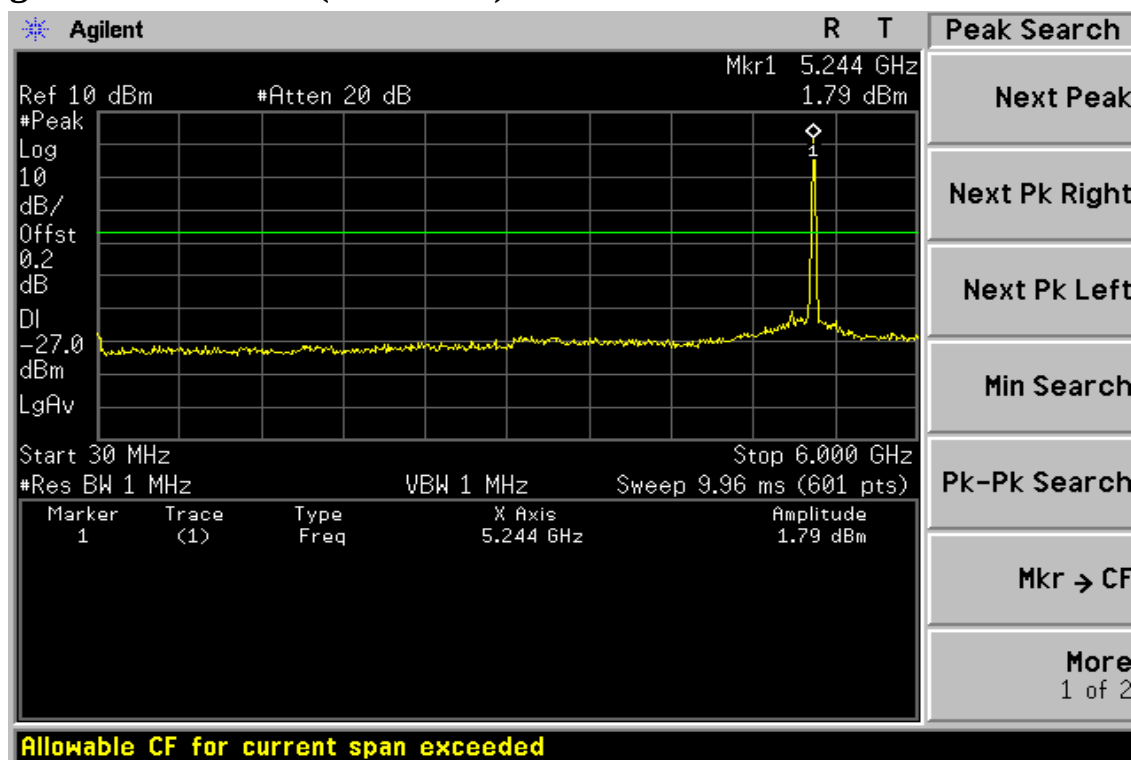
Ch Mid 18GHz – 40GHz



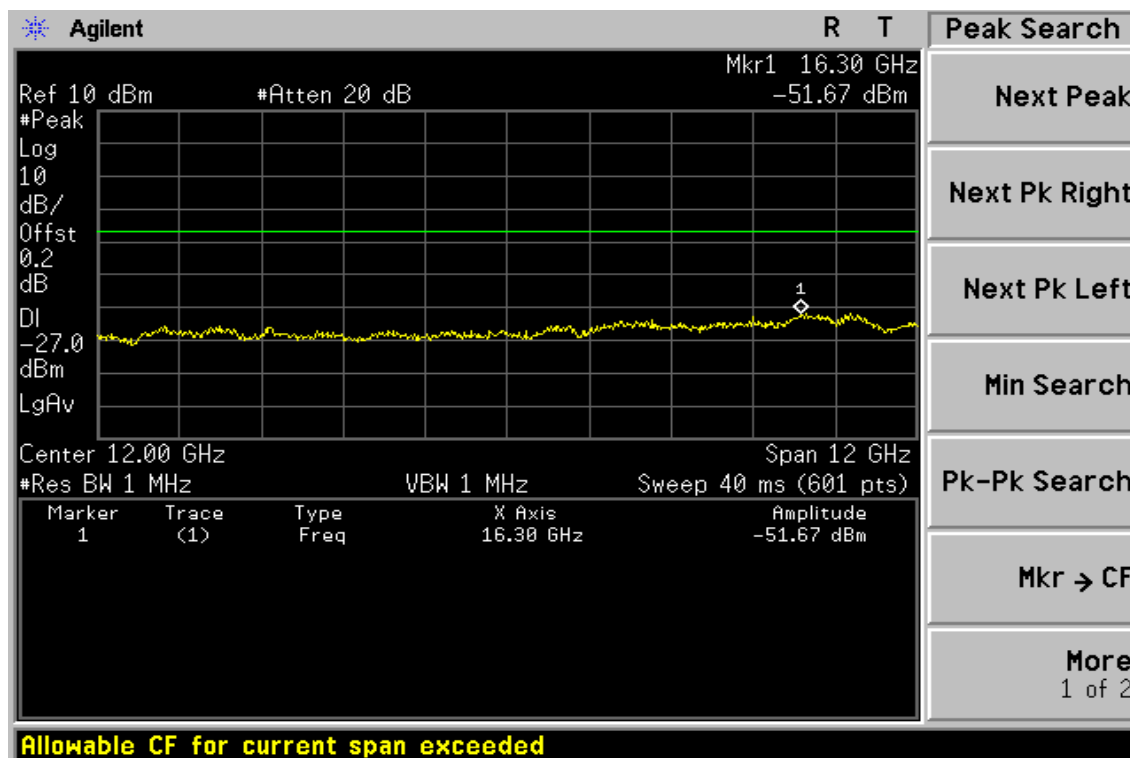
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Ch High 30MHz – 6GHz (5240 MHz)



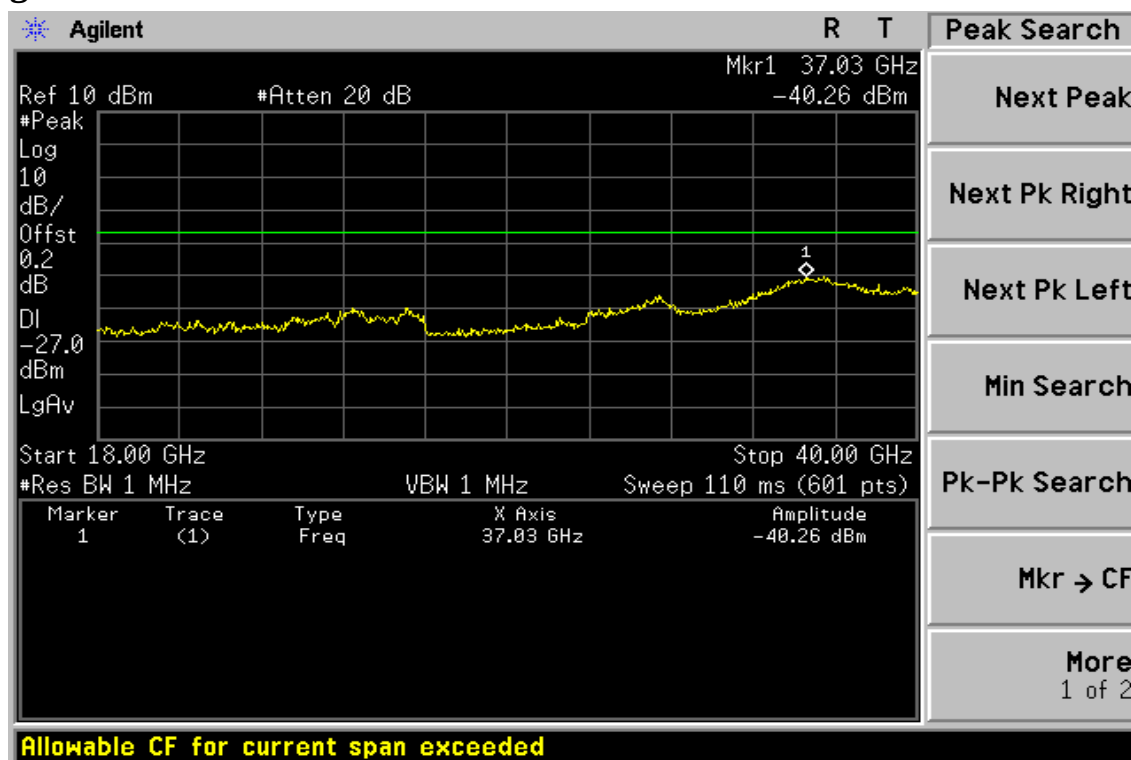
Ch High 6GHz – 18GHz



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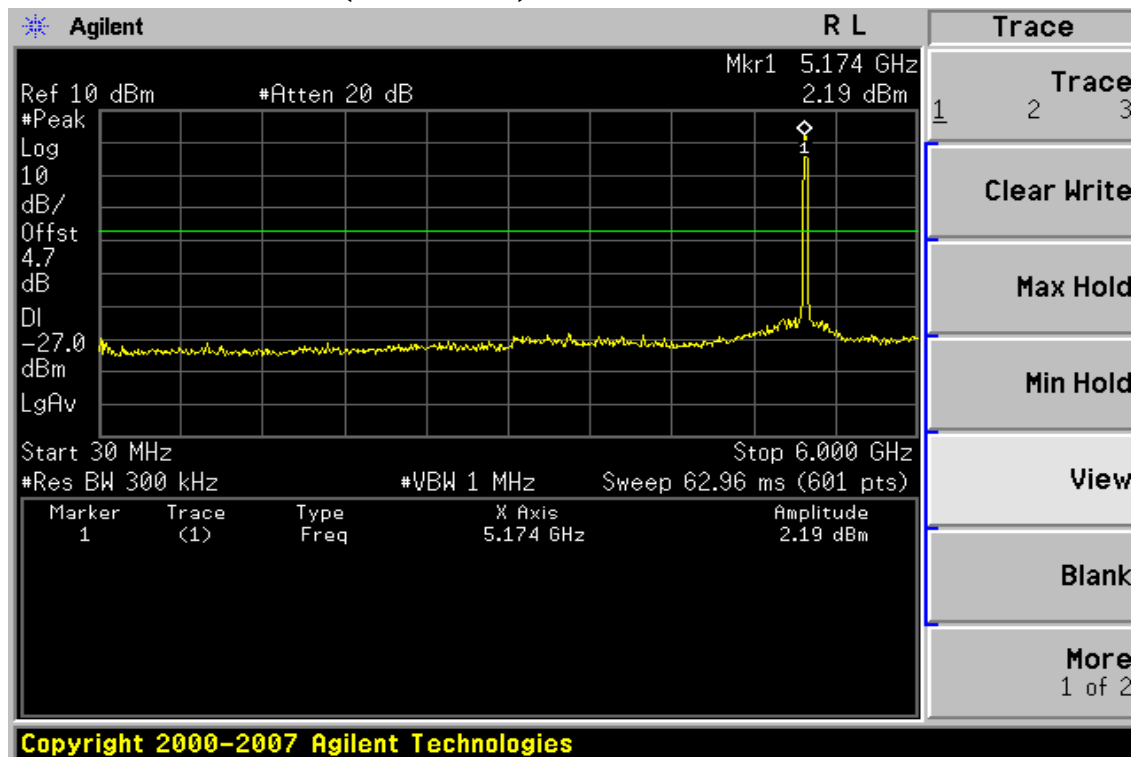
Ch High 18GHz – 40GHz



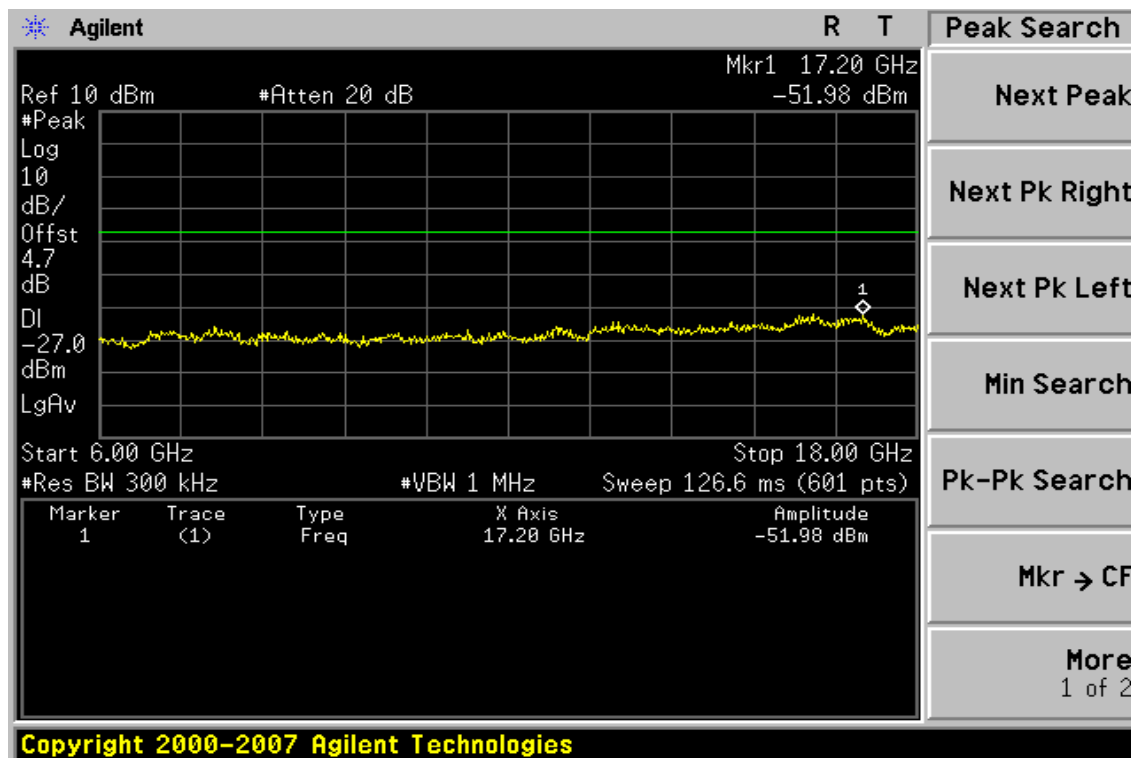
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UNII HT20, Comp Ch Low 30MHz – 6GHz (5180 MHz)



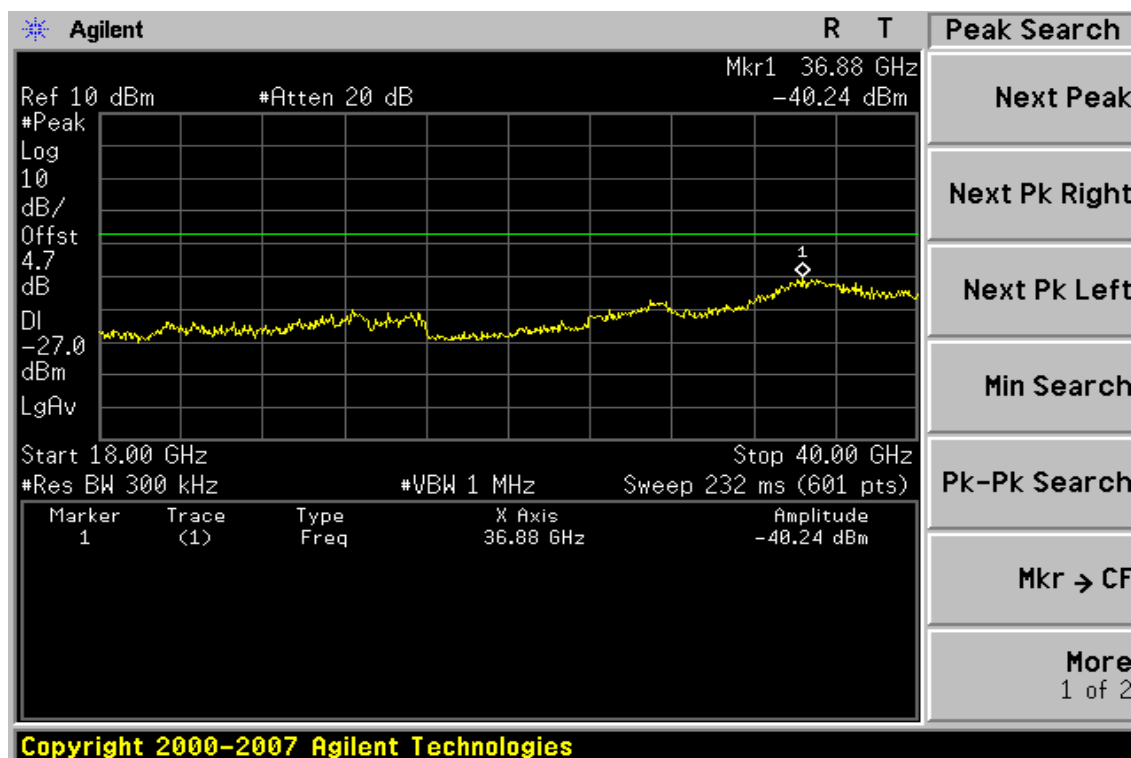
Ch Low 6GHz – 18GHz



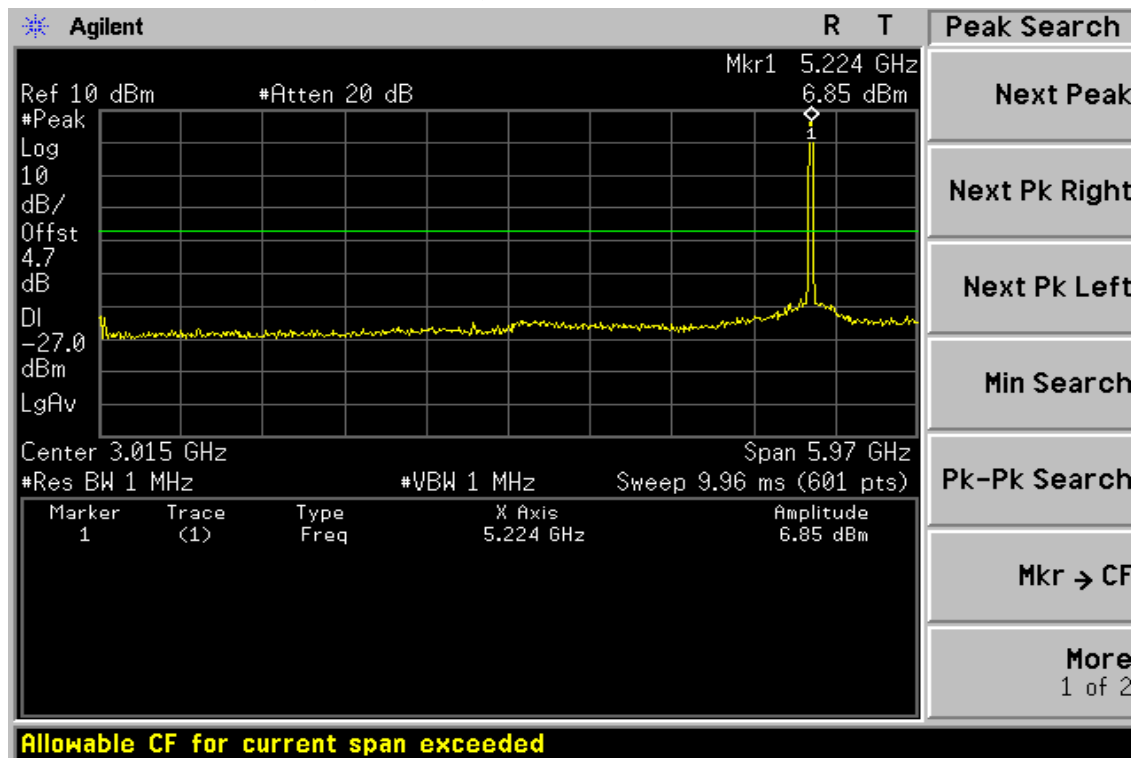
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Ch Low 18GHz – 40GHz



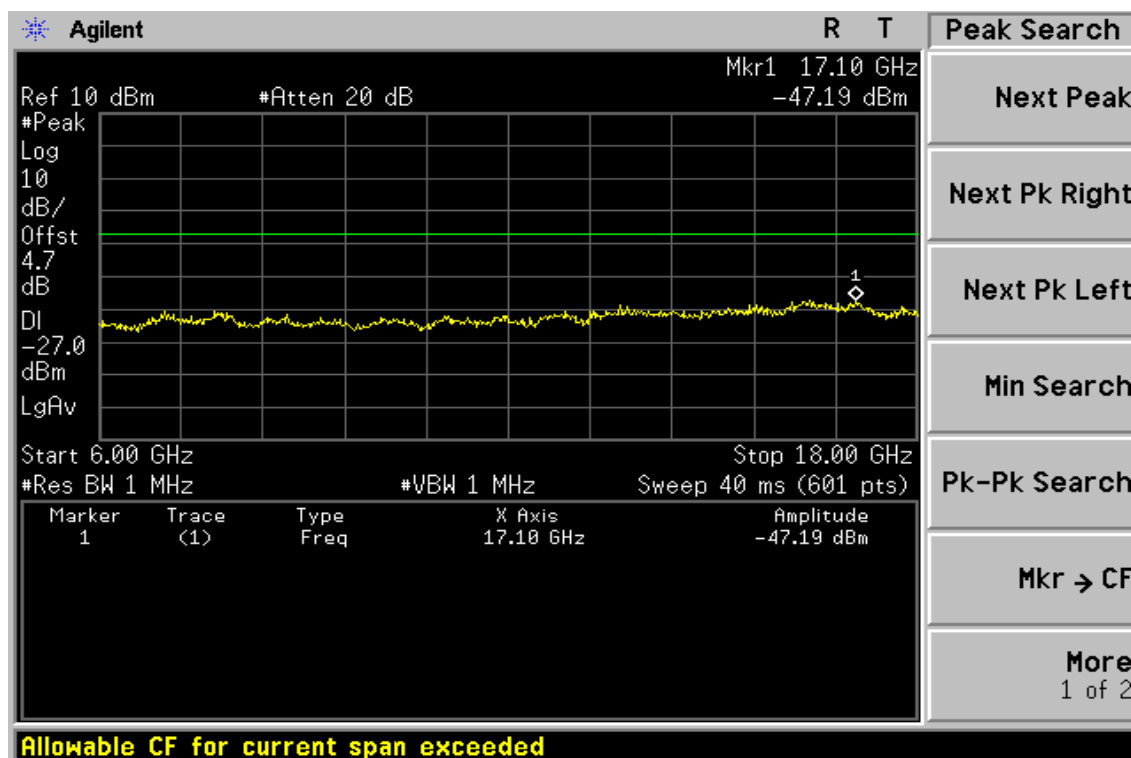
Ch Mid 30MHz – 6GHz (5220 MHz)



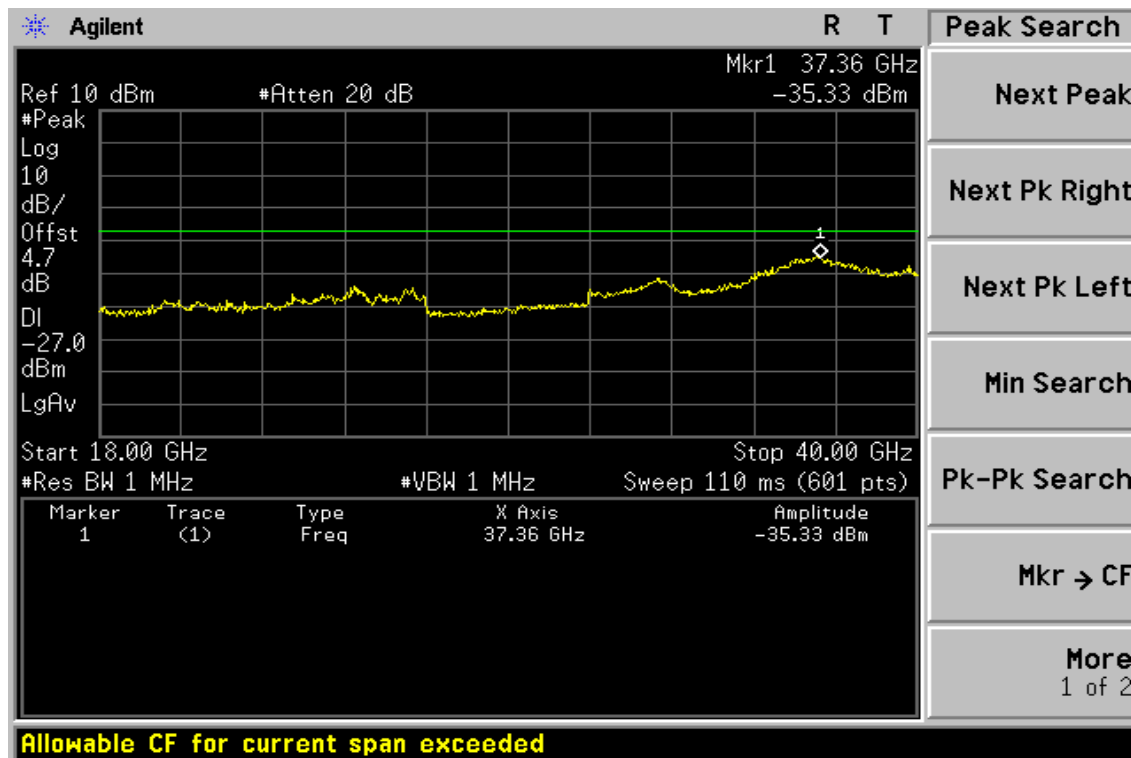
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Ch Mid 6GHz – 18GHz



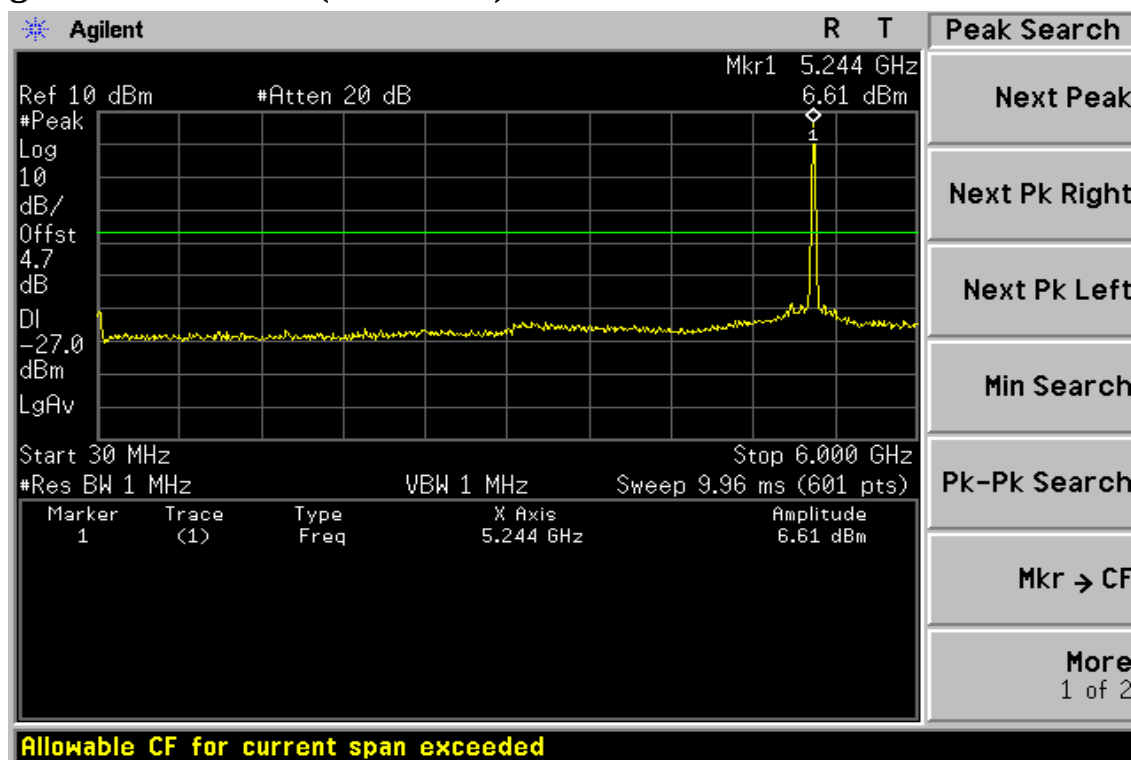
Ch Mid 18GHz – 40GHz



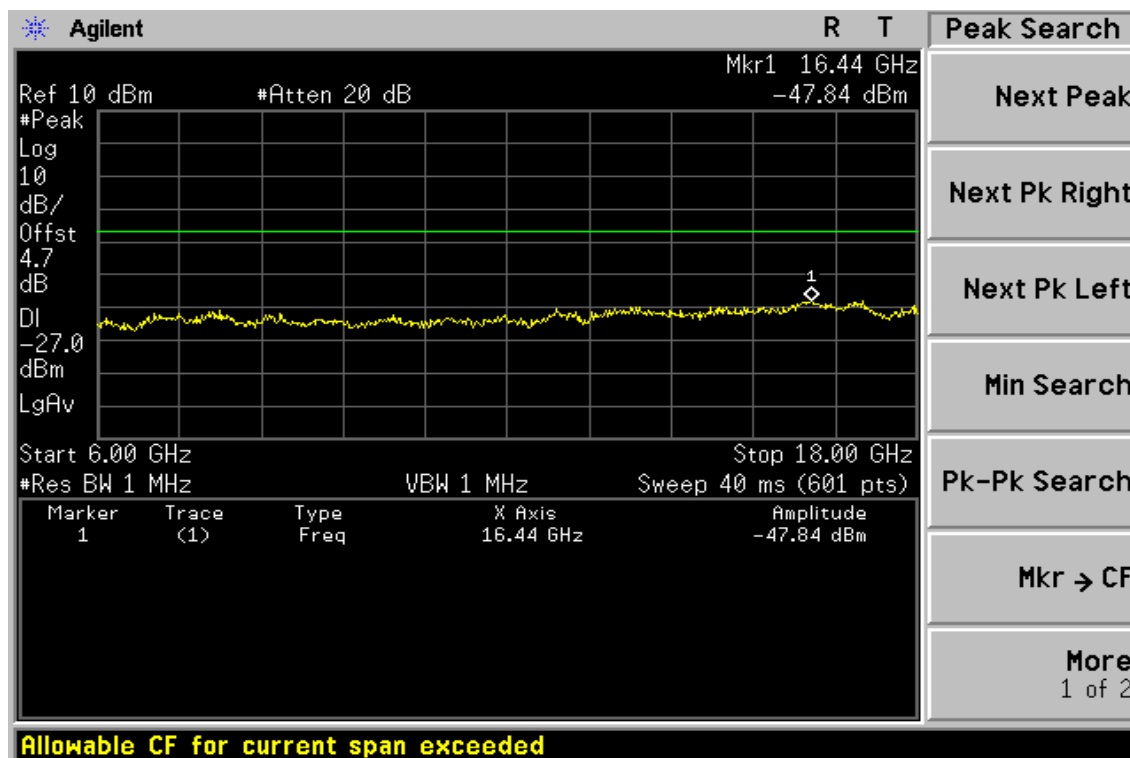
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Ch High 30MHz – 6GHz (5240 MHz)



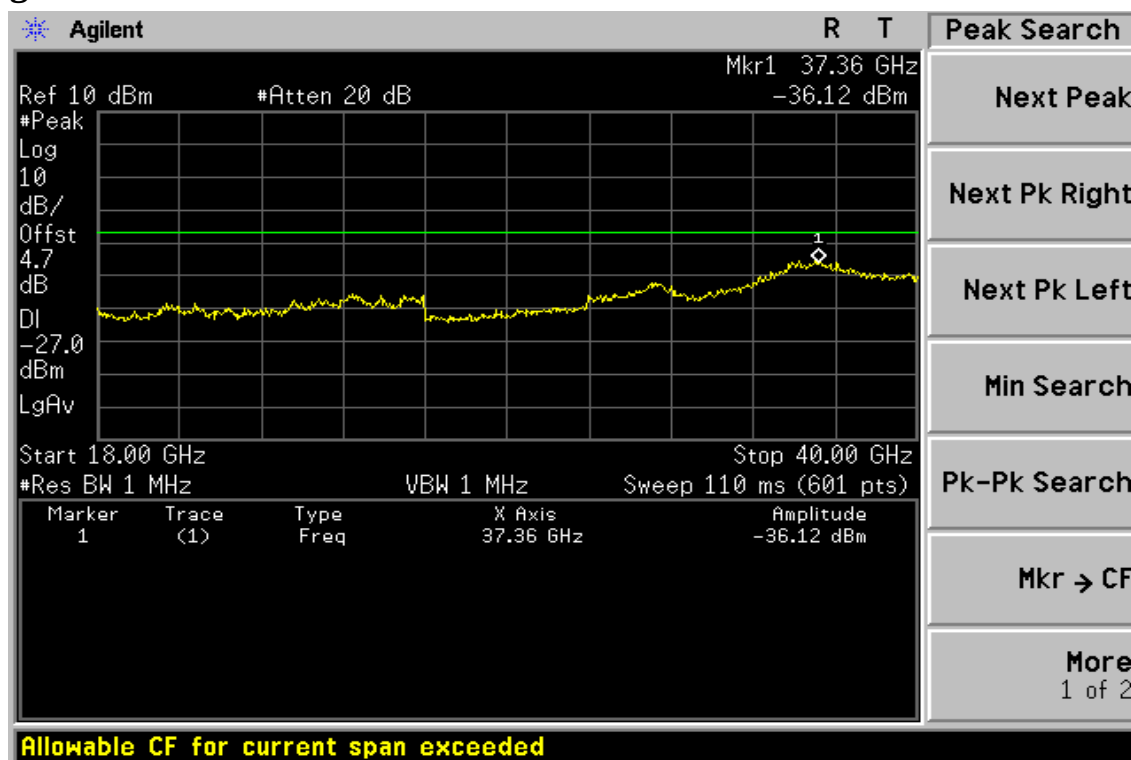
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

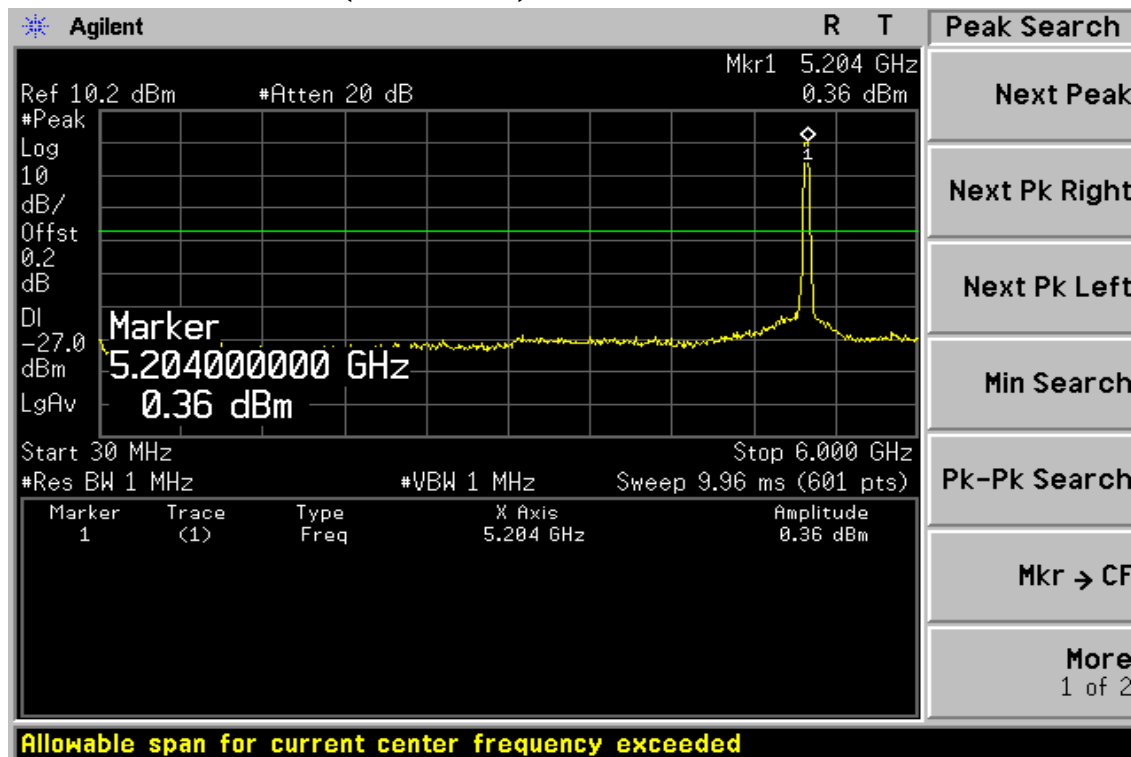


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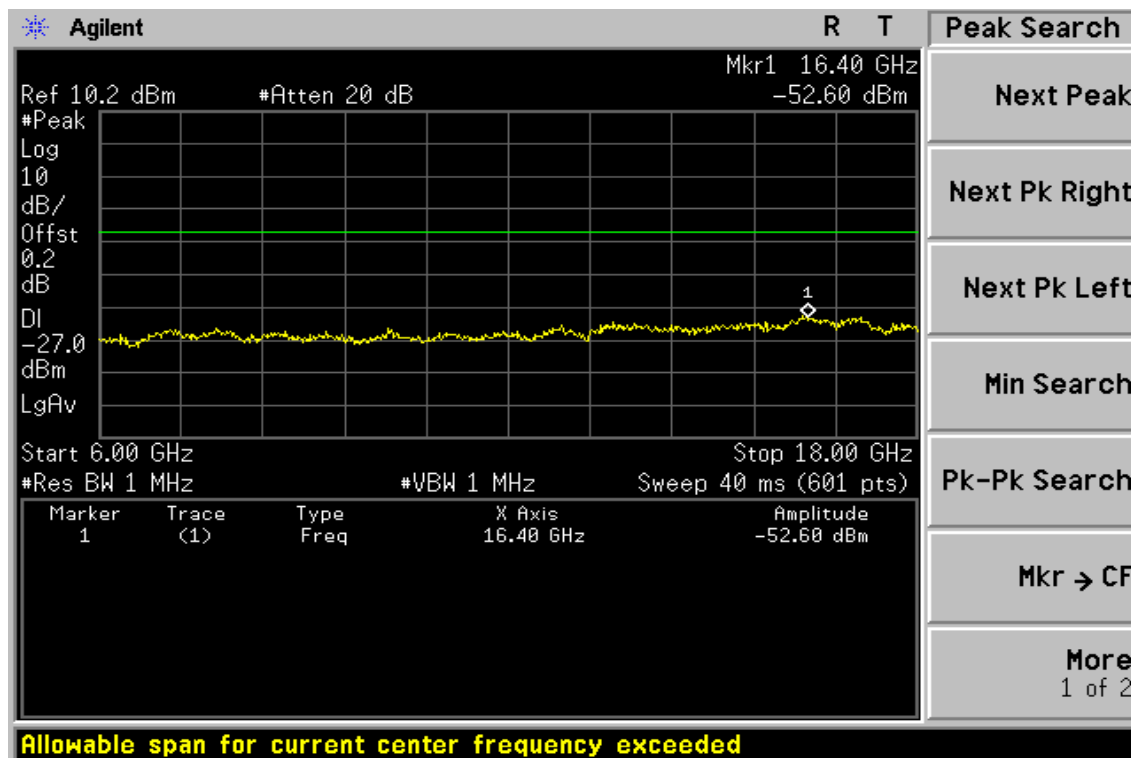
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UNII HT40, Chain 0

Ch Low 30MHz – 6GHz (5190 MHz)



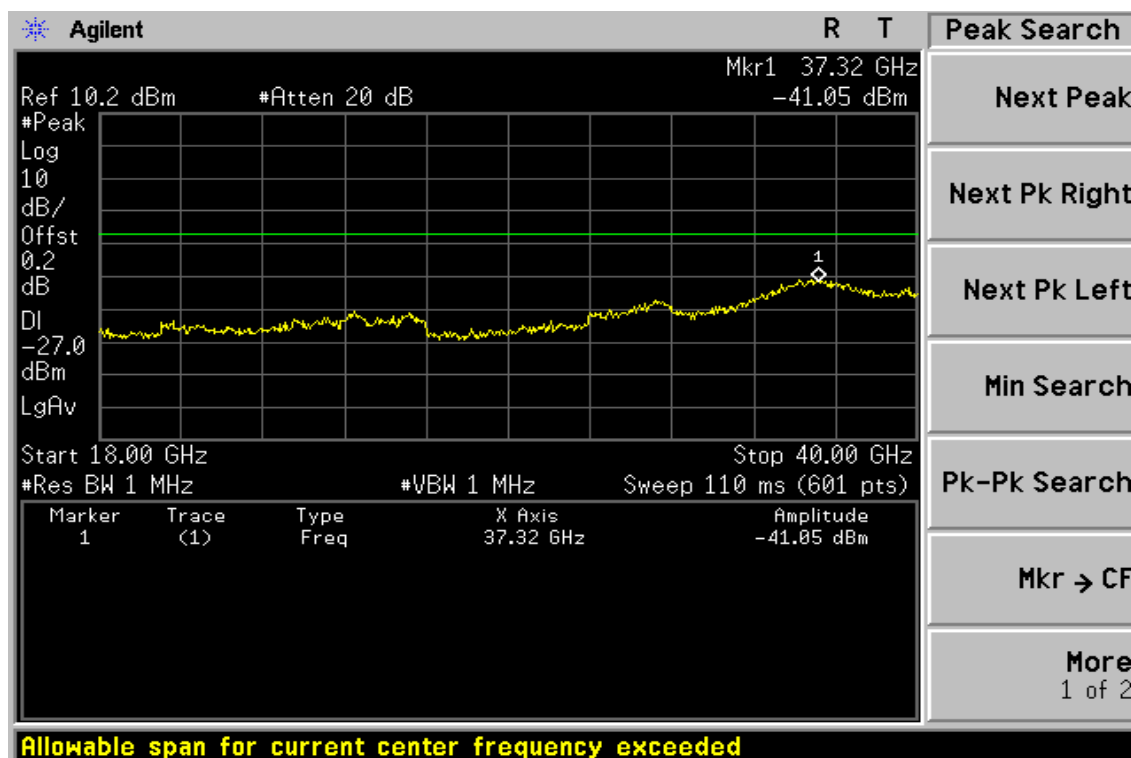
Ch Low 6GHz – 18GHz



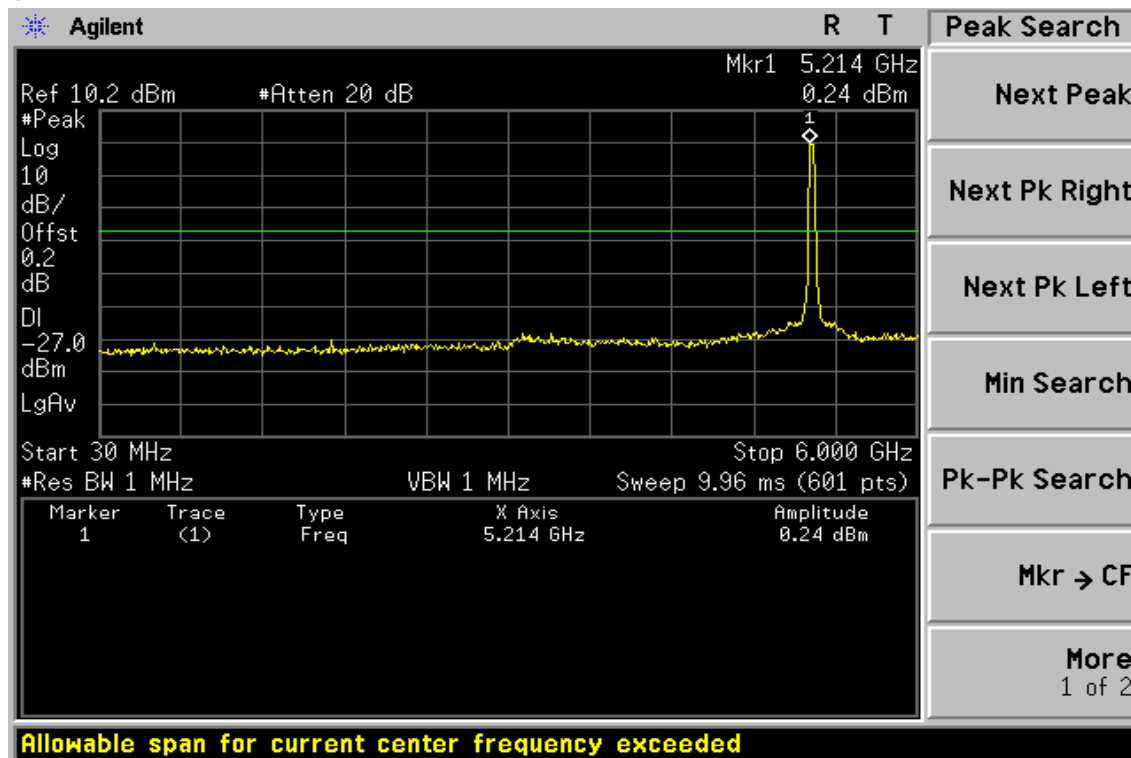
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Ch Low 18GHz – 40GHz



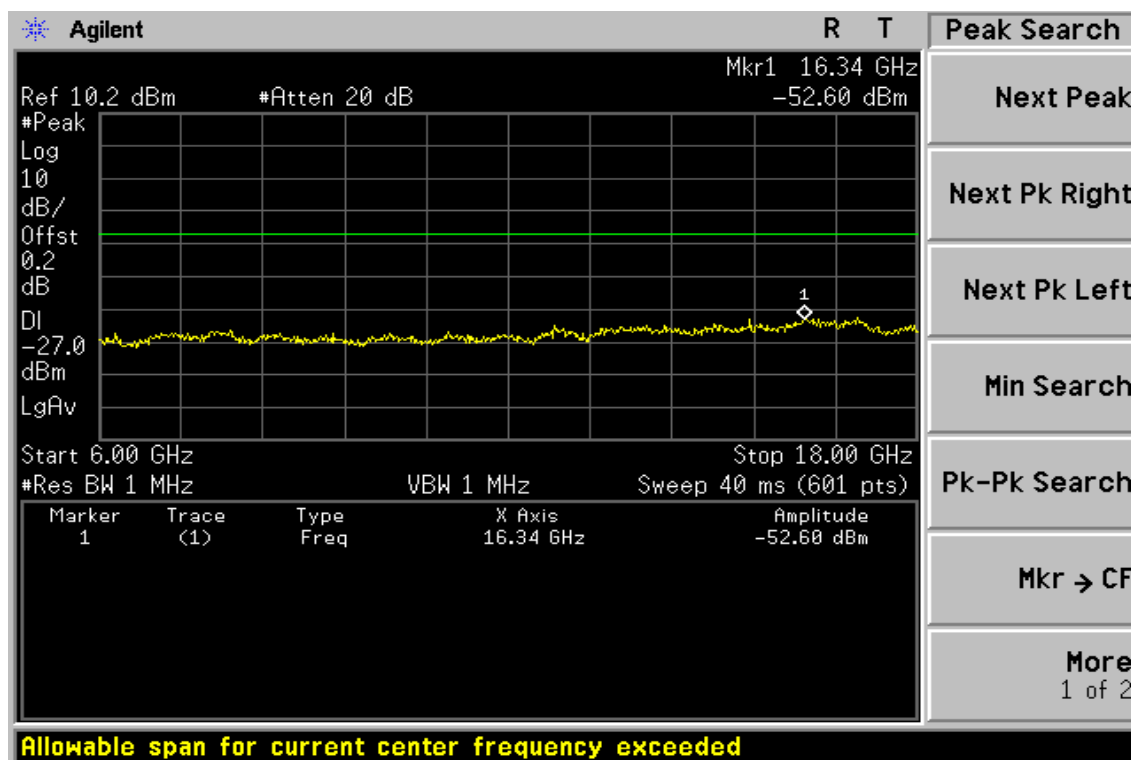
Ch High 30MHz – 6GHz (5230 MHz)



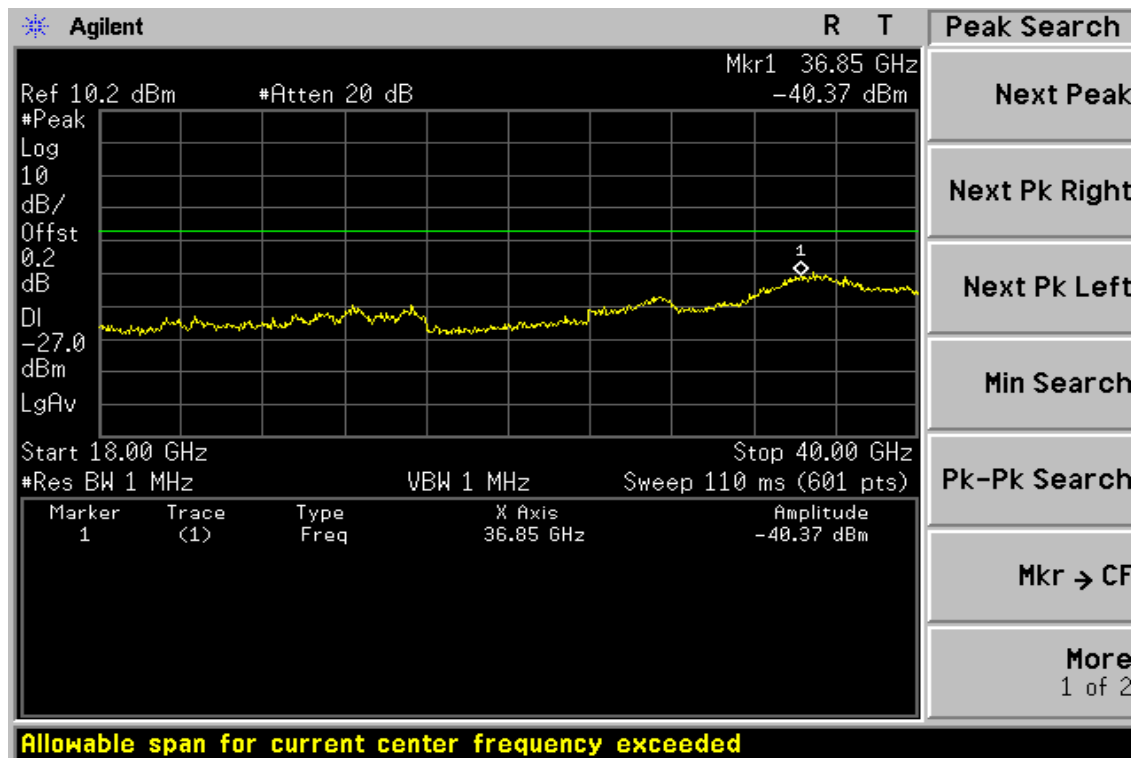
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Ch Mid 6GHz – 18GHz



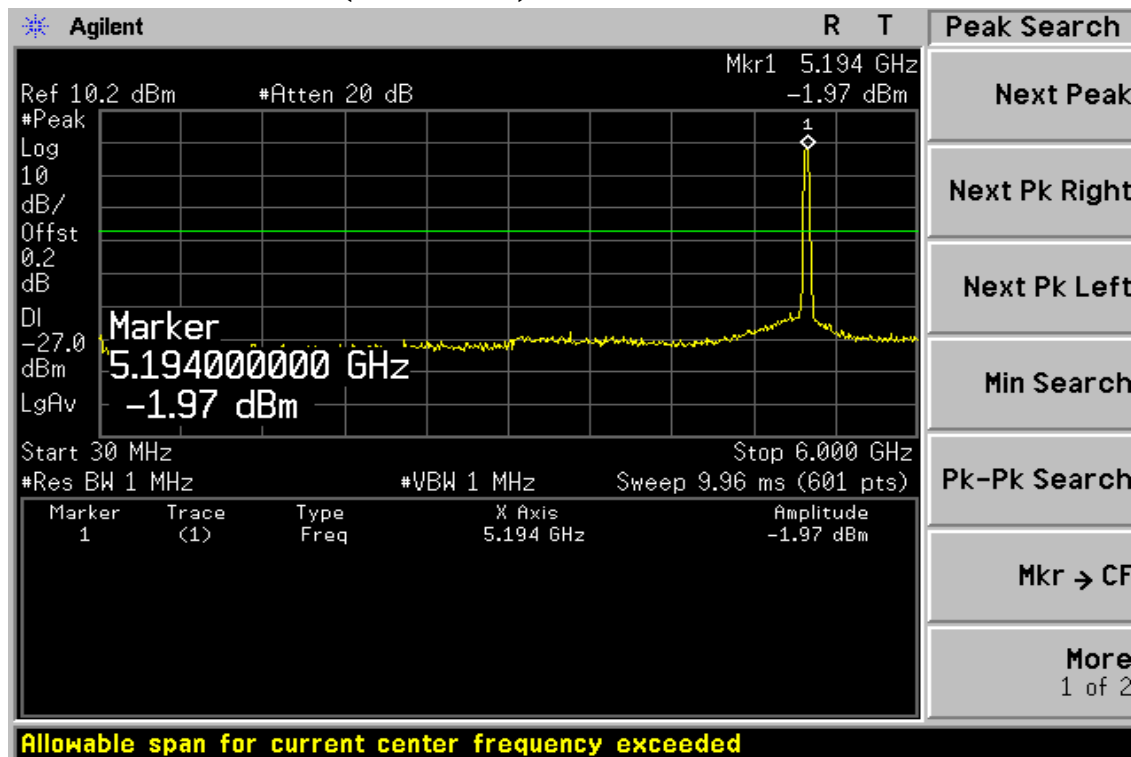
Ch Mid 18GHz – 40GHz



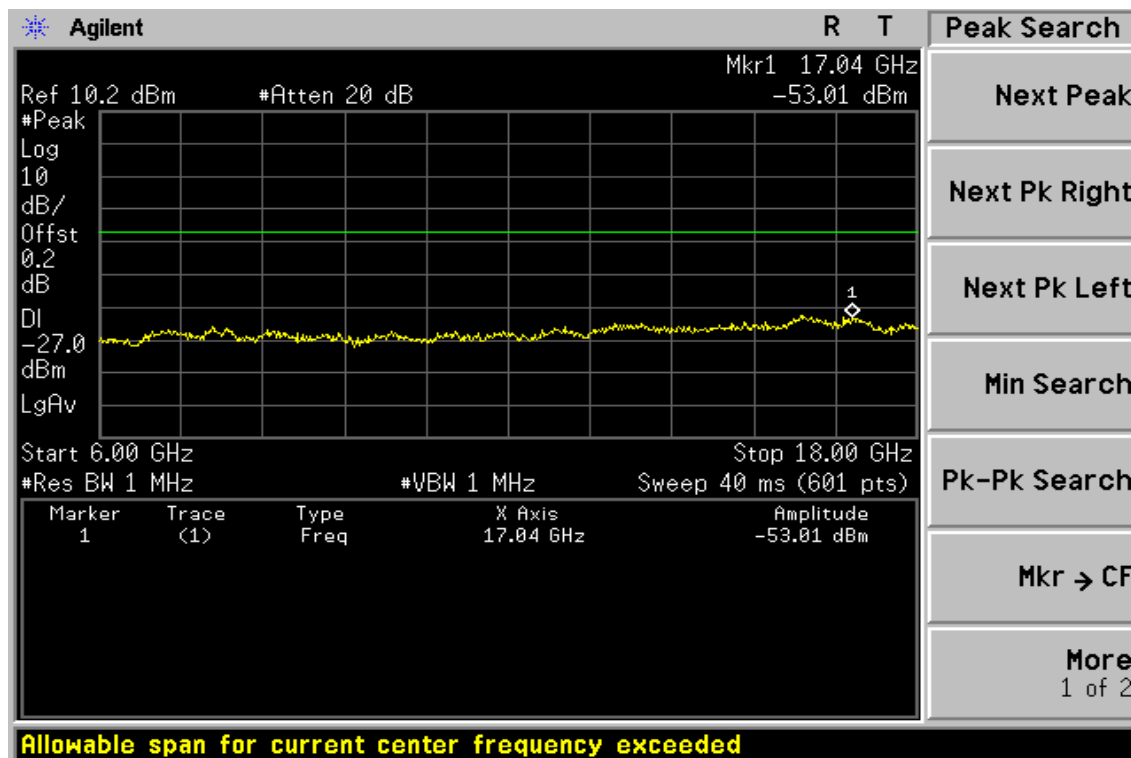
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UNII HT40, Chain 1 Ch Low 30MHz – 6GHz (5190 MHz)



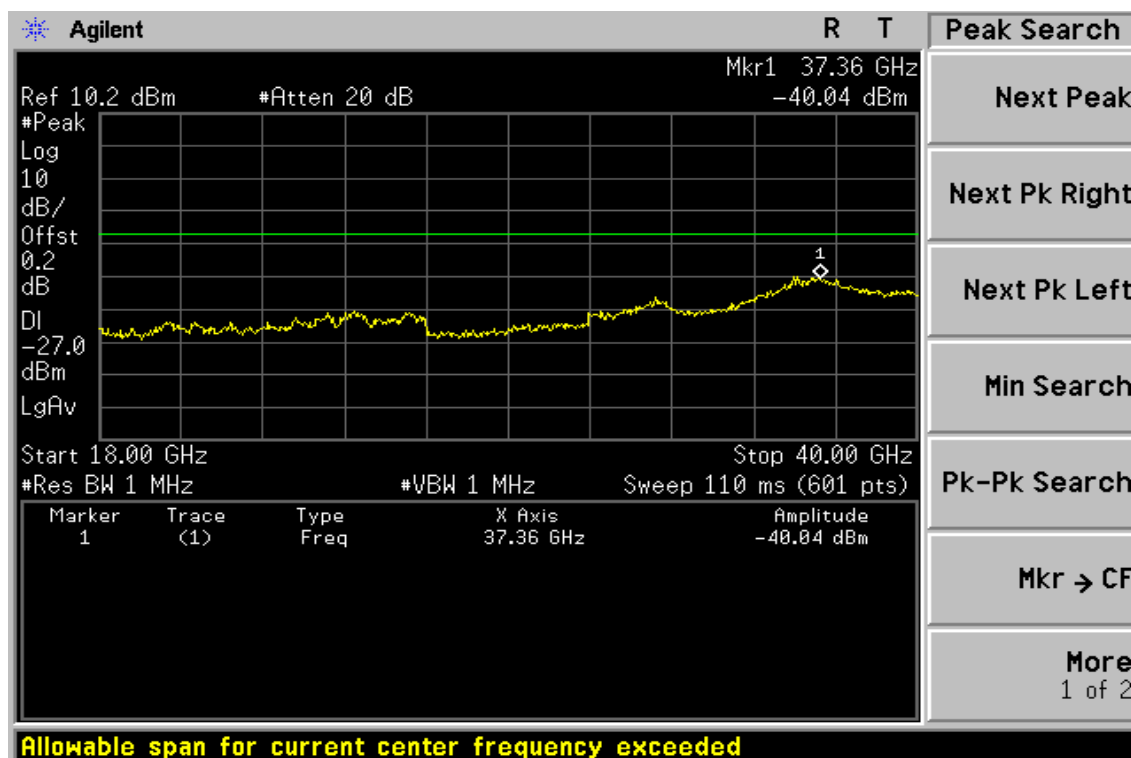
Ch Low 6GHz – 18GHz



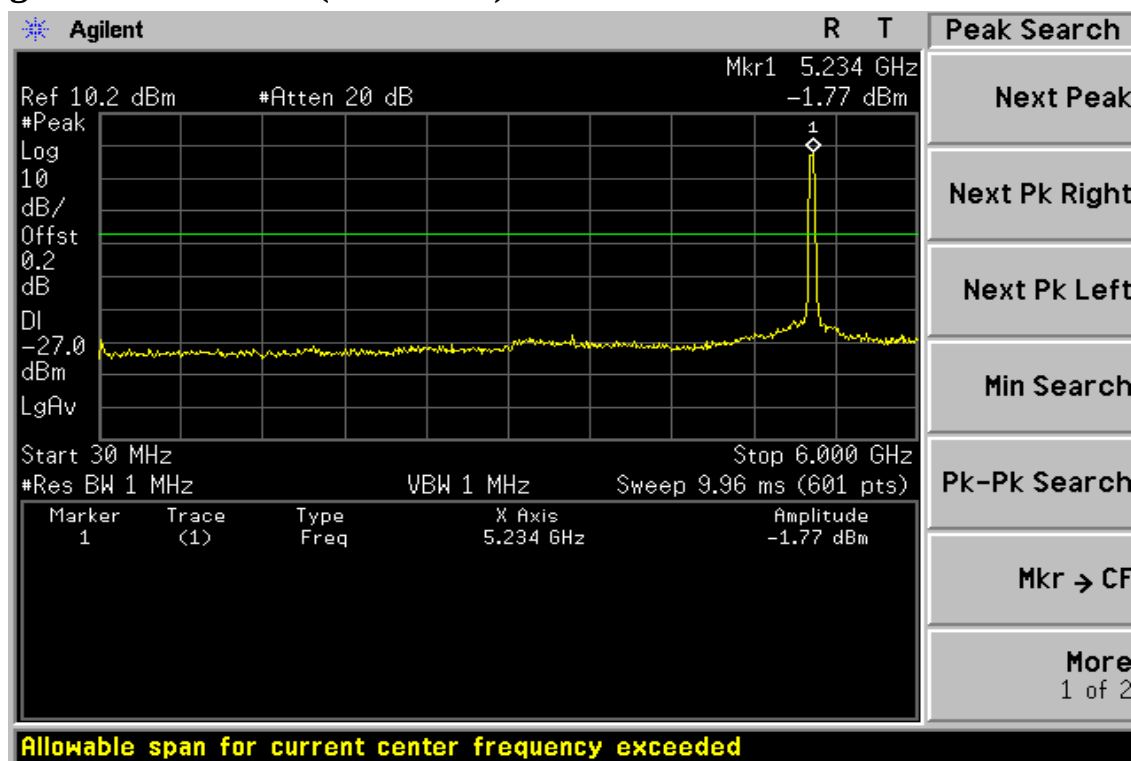
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Ch Low 18GHz – 40GHz



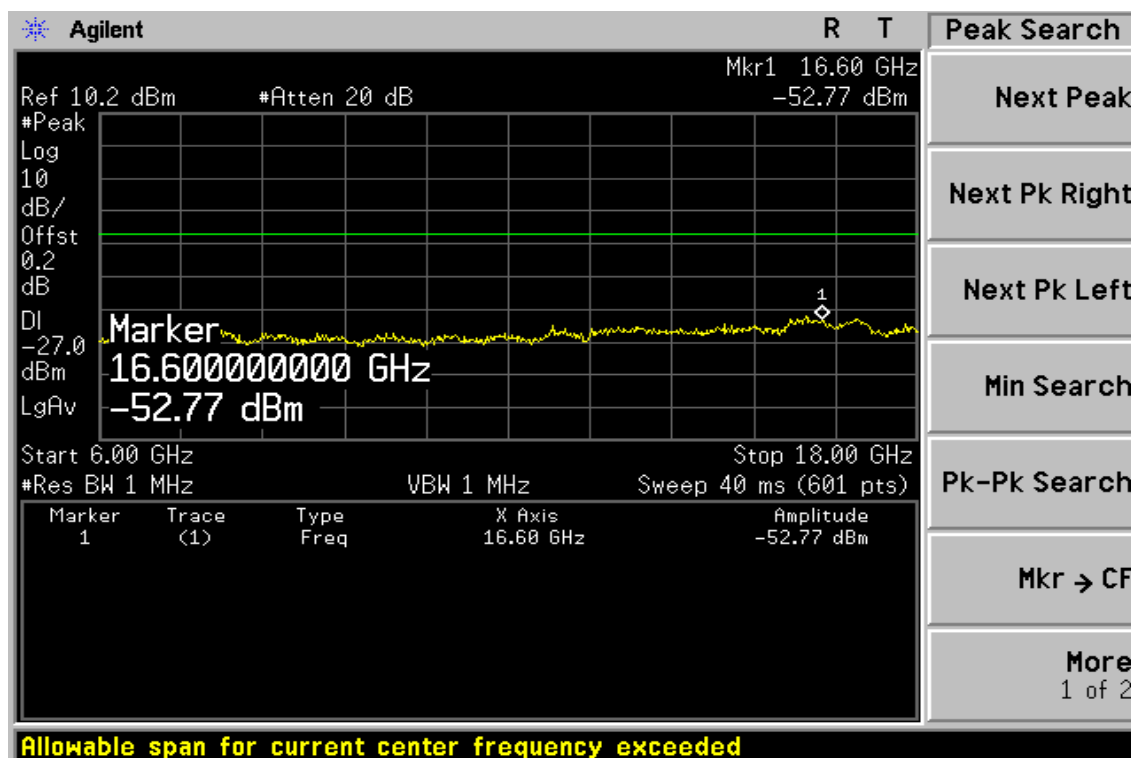
Ch High 30MHz – 6GHz (5230 MHz)



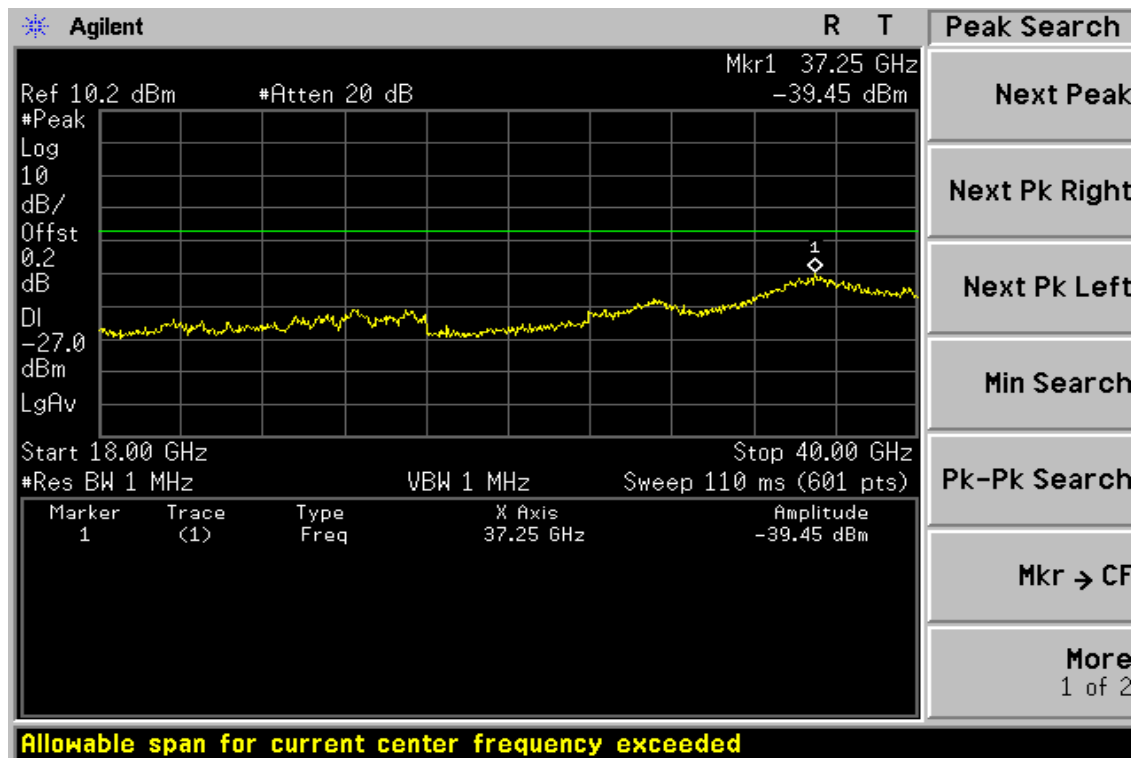
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Ch Mid 6GHz – 18GHz



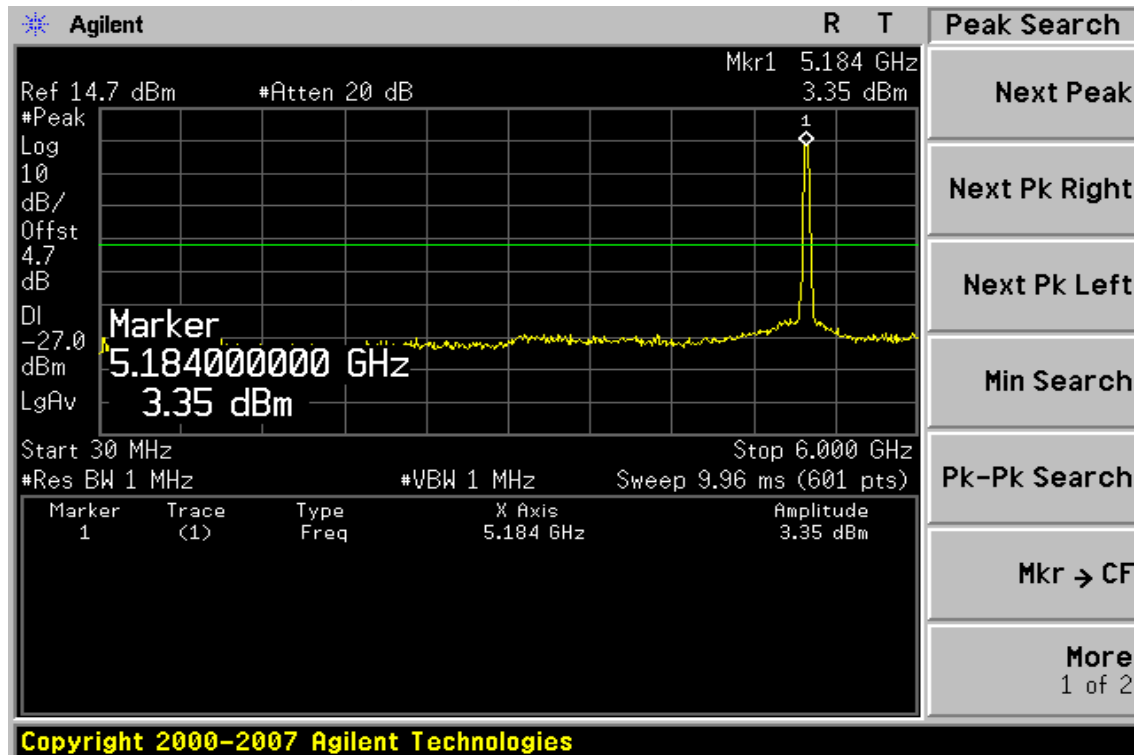
Ch Mid 18GHz – 40GHz



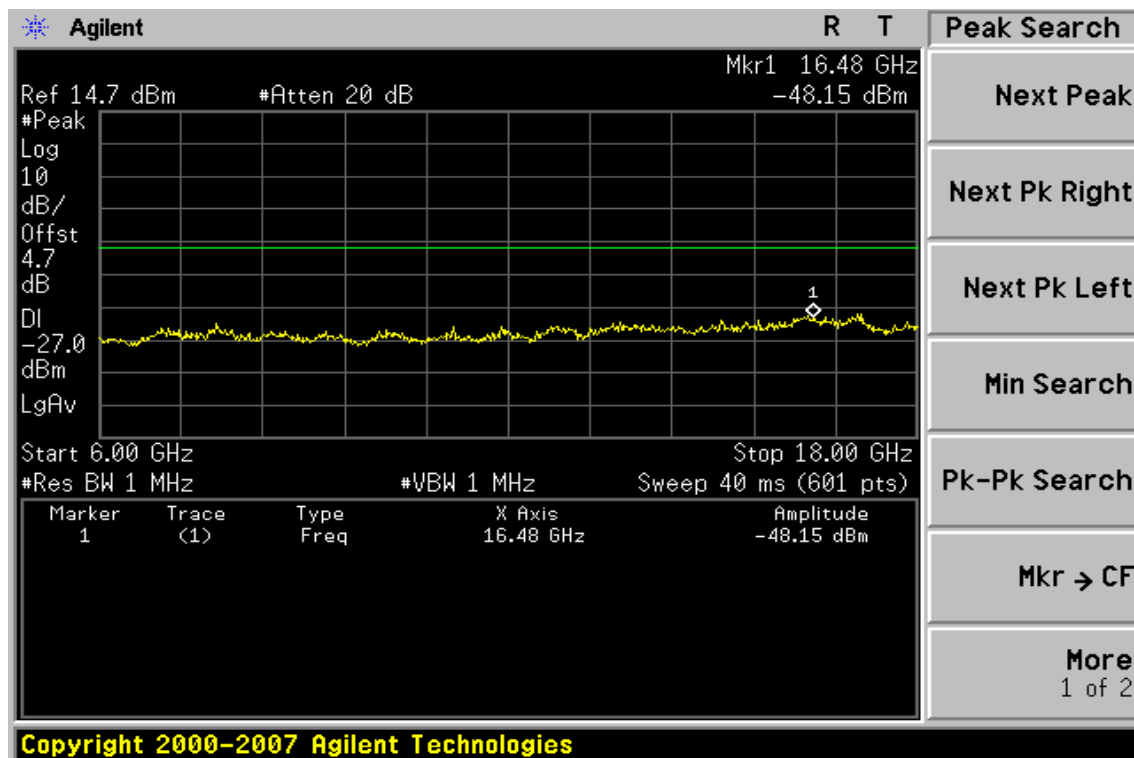
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UNII HT40, Comp Ch Low 30MHz – 6GHz (5190 MHz)



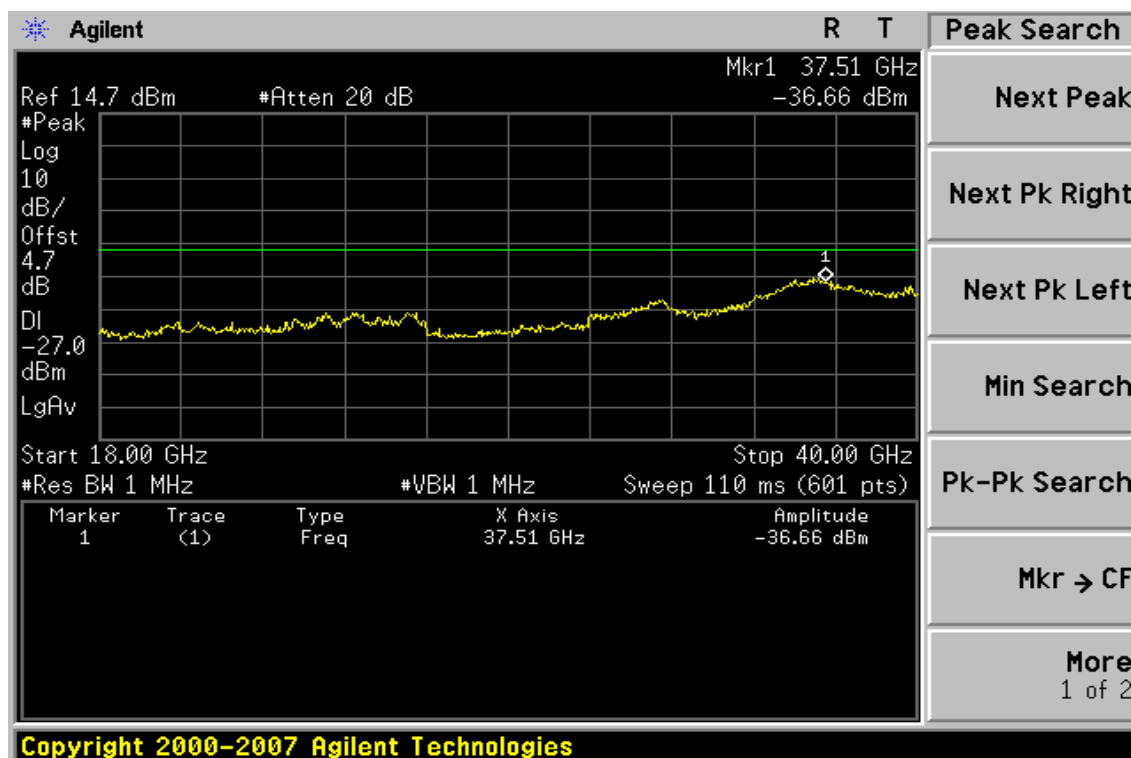
Ch Low 6GHz – 18GHz



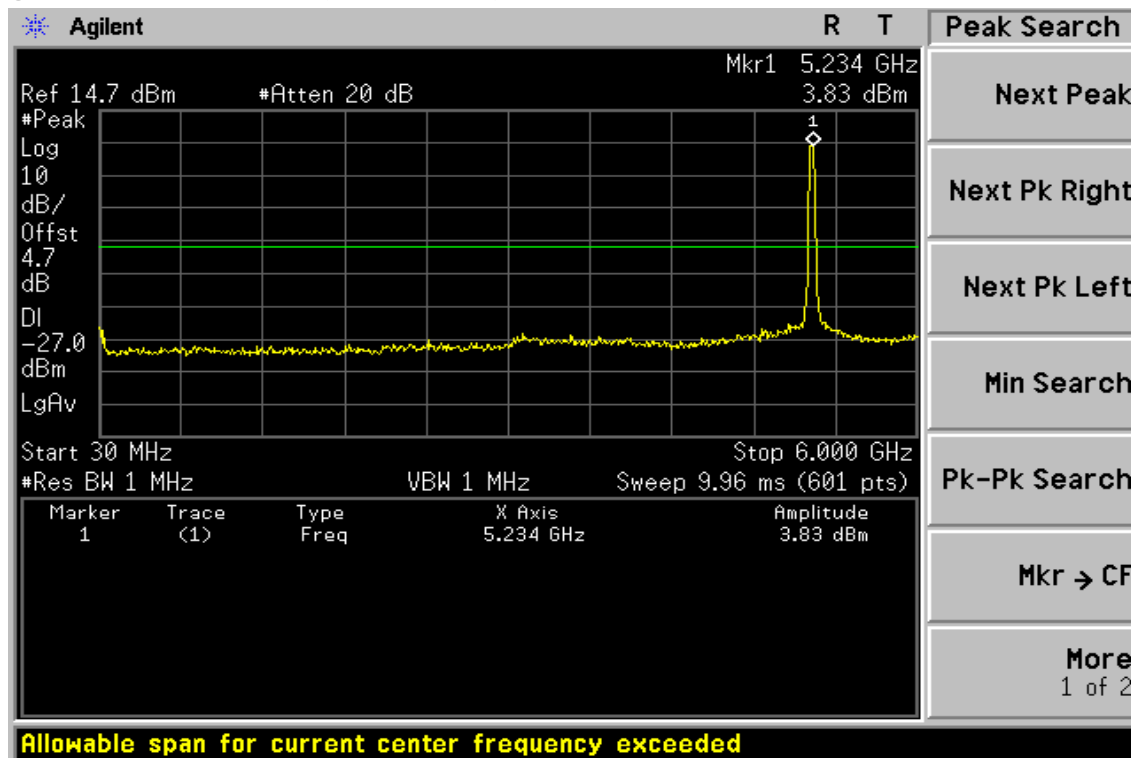
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Ch Low 18GHz – 40GHz



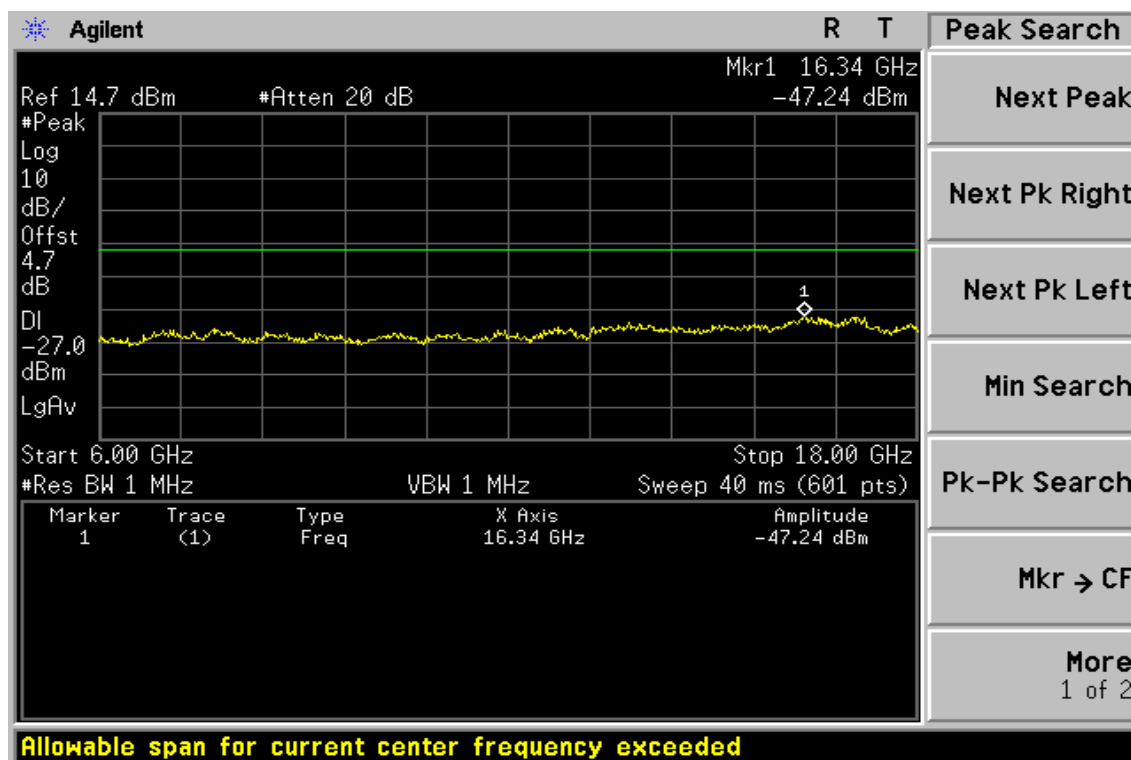
Ch High 30MHz – 6GHz (5230 MHz)



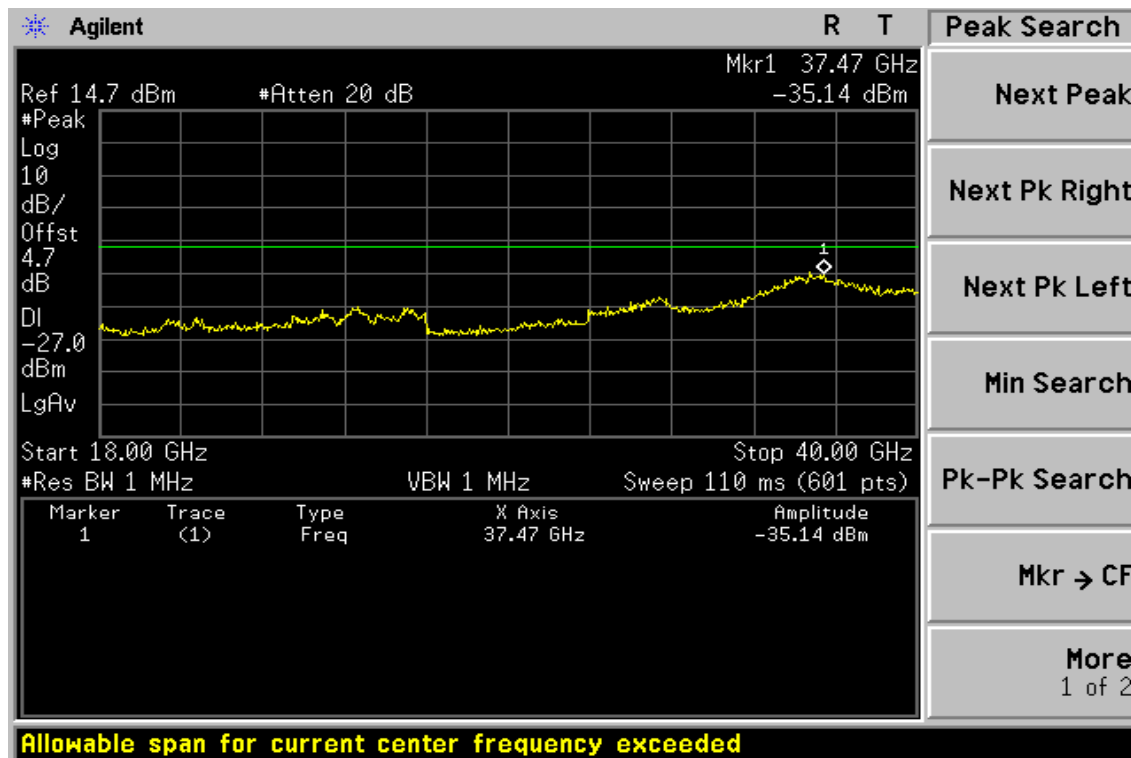
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Ch Mid 6GHz – 18GHz



Ch Mid 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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According to RSS-210 A9.3

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

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§15.205- RESTRICTED BANDS OF OPERATIONS

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

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

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

² Above 38.6

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

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§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

FCC PART 15.209

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

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 C63.4-1992.
2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 110Vac/60Hz power source.

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11.3 Measurement Procedure

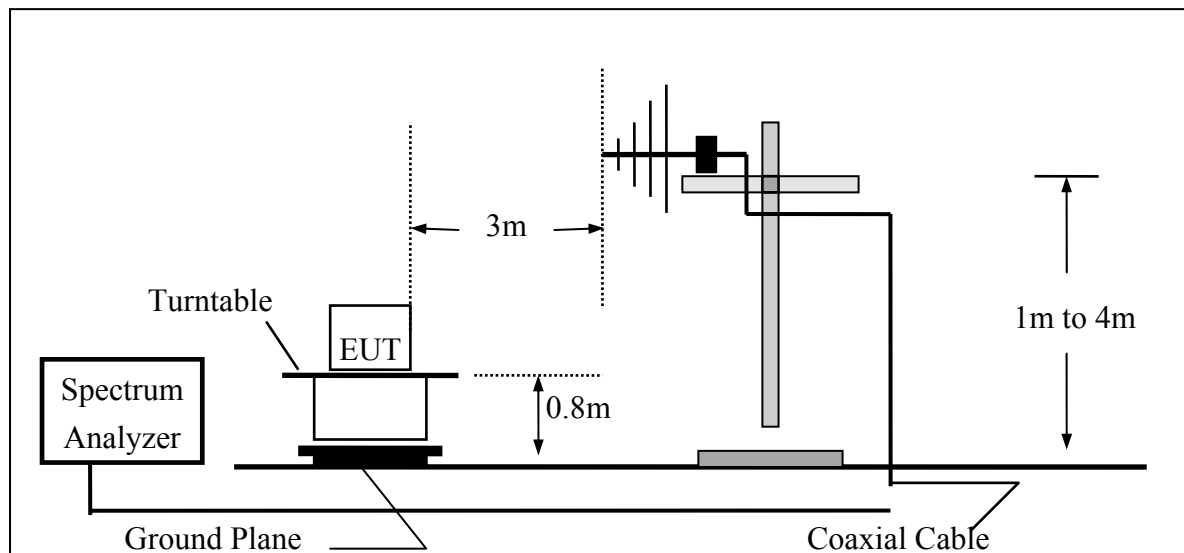
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was 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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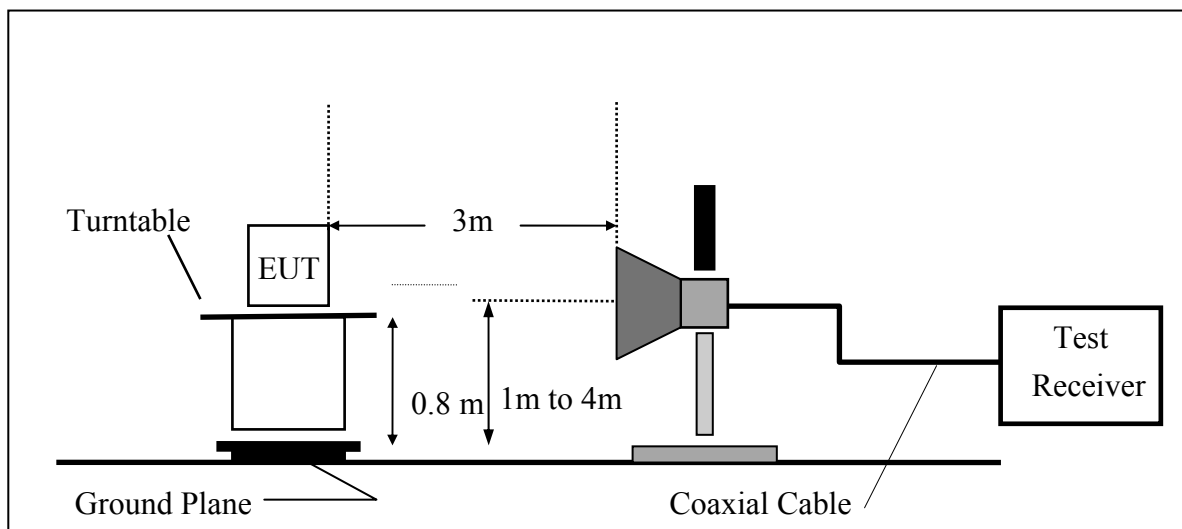
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11.4 Test SET-UP (Block Diagram of Configuration)

(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	02/12/2009	02/11/2010
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	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
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	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2009	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.

Radiated Spurious Emission Measurement Result (below 1GHz) UNII

Operation Mode	TX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
36.79	V	Peak	51.02	-14.36	36.66	40.00	-3.34
64.92	V	Peak	45.15	-14.83	30.32	40.00	-9.68
250.19	V	Peak	46.84	-13.74	33.10	46.00	-12.90
293.84	V	Peak	51.13	-13.19	37.94	46.00	-8.06
397.63	V	Peak	39.83	-10.09	29.74	46.00	-16.26
533.43	V	Peak	37.79	-7.96	29.83	46.00	-16.17
36.79	H	Peak	47.17	-14.36	32.81	40.00	-7.19
75.59	H	Peak	44.00	-17.13	26.87	40.00	-13.13
218.18	H	Peak	43.59	-14.99	28.60	46.00	-17.40
256.98	H	Peak	45.92	-13.67	32.25	46.00	-13.75
293.84	H	Peak	48.72	-13.19	35.53	46.00	-10.47
358.83	H	Peak	40.72	-11.43	29.29	46.00	-16.71

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)

Operation Mode	TX CH Mid	Test Date	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
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)
38.73	V	Peak	47.08	-13.84	33.24	40.00	-6.76
62.98	V	Peak	45.15	-14.85	30.30	40.00	-9.70
153.19	V	Peak	41.68	-13.00	28.68	43.50	-14.82
213.33	V	Peak	45.36	-15.16	30.20	43.50	-13.30
255.04	V	Peak	44.34	-13.69	30.65	46.00	-15.35
290.93	V	Peak	51.19	-13.21	37.98	46.00	-8.02
38.73	H	Peak	46.11	-13.84	32.27	40.00	-7.73
70.74	H	Peak	43.66	-16.27	27.39	40.00	-12.61
216.24	H	Peak	44.44	-15.05	29.39	46.00	-16.61
252.13	H	Peak	41.91	-13.72	28.19	46.00	-17.81
290.93	H	Peak	49.99	-13.21	36.78	46.00	-9.22
366.59	H	Peak	41.37	-11.17	30.20	46.00	-15.80

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 Nov. 15, 2009
Test By Jim
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)
36.79	V	Peak	50.47	-14.36	36.11	40.00	-3.89
62.98	V	Peak	45.70	-14.85	30.85	40.00	-9.15
97.90	V	Peak	45.30	-17.11	28.19	43.50	-15.31
290.93	V	Peak	50.89	-13.21	37.68	46.00	-8.32
533.43	V	Peak	39.93	-7.96	31.97	46.00	-14.03
599.39	V	Peak	39.06	-6.03	33.03	46.00	-12.97
36.79	H	Peak	47.21	-14.36	32.85	40.00	-7.15
71.71	H	Peak	43.98	-16.45	27.53	40.00	-12.47
216.24	H	Peak	44.80	-15.05	29.75	46.00	-16.25
250.19	H	Peak	46.86	-13.74	33.12	46.00	-12.88
293.84	H	Peak	49.65	-13.19	36.46	46.00	-9.54
664.38	H	Peak	36.36	-5.01	31.35	46.00	-14.65

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, Comp

Operation Mode	TX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
36.79	V	Peak	50.52	-14.36	36.16	40.00	-3.84
65.89	V	Peak	45.36	-15.09	30.27	40.00	-9.73
96.93	V	Peak	45.27	-17.16	28.11	43.50	-15.39
252.13	V	Peak	42.93	-13.72	29.21	46.00	-16.79
290.93	V	Peak	47.46	-13.21	34.25	46.00	-11.75
599.39	V	Peak	34.78	-6.03	28.75	46.00	-17.25
38.79	H	Peak	45.76	-13.84	31.92	40.00	-8.08
70.74	H	Peak	42.83	-16.27	26.56	40.00	-13.44
217.21	H	Peak	45.17	-15.02	30.15	46.00	-15.85
250.19	H	Peak	42.28	-13.74	28.54	46.00	-17.46
290.93	H	Peak	49.50	-13.21	36.29	46.00	-9.71
358.83	H	Peak	41.50	-11.43	30.07	46.00	-15.93

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	Test Date	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
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)
36.79	V	Peak	49.92	-14.36	35.56	40.00	-4.44
62.98	V	Peak	45.40	-14.85	30.55	40.00	-9.45
90.14	V	Peak	46.76	-17.62	29.14	43.50	-14.36
256.98	V	Peak	44.99	-13.67	31.32	46.00	-14.68
286.08	V	Peak	48.47	-13.26	35.21	46.00	-10.79
730.34	V	Peak	34.26	-4.54	29.72	46.00	-16.28
36.79	H	Peak	46.10	-14.36	31.74	40.00	-8.26
70.74	H	Peak	42.61	-16.27	26.34	40.00	-13.66
218.18	H	Peak	45.84	-14.99	30.85	46.00	-15.15
255.04	H	Peak	45.79	-13.69	32.10	46.00	-13.90
290.93	H	Peak	49.34	-13.21	36.13	46.00	-9.87
870.99	H	Peak	33.08	-1.58	31.50	46.00	-14.50

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	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
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)
37.76	V	Peak	48.98	-14.24	34.74	40.00	-5.26
64.92	V	Peak	45.59	-14.83	30.76	40.00	-9.24
96.93	V	Peak	45.01	-17.16	27.85	43.50	-15.65
179.38	V	Peak	41.93	-14.49	27.44	43.50	-16.06
255.04	V	Peak	41.36	-13.69	27.67	46.00	-18.33
286.08	V	Peak	47.36	-13.26	34.10	46.00	-11.90
36.79	H	Peak	46.20	-14.36	31.84	40.00	-8.16
70.74	H	Peak	42.85	-16.27	26.58	40.00	-13.42
150.28	H	Peak	38.30	-12.83	25.47	43.50	-18.03
218.18	H	Peak	45.83	-14.99	30.84	46.00	-15.16
290.93	H	Peak	50.21	-13.21	37.00	46.00	-9.00
366.59	H	Peak	40.28	-11.17	29.11	46.00	-16.89

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, Comp

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

Test Date Nov. 15, 2009
 Test By Jim
 Pol Ver./Hor

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
36.79	V	Peak	49.75	-14.36	35.39	40.00	-4.61
64.92	V	Peak	44.23	-14.83	29.40	40.00	-10.60
90.14	V	Peak	45.46	-17.62	27.84	43.50	-15.66
101.78	V	Peak	44.15	-16.87	27.28	43.50	-16.22
290.93	V	Peak	50.25	-13.21	37.04	46.00	-8.96
599.39	V	Peak	36.80	-6.03	30.77	46.00	-15.23
41.64	H	Peak	44.68	-13.76	30.92	40.00	-9.08
70.74	H	Peak	44.08	-16.27	27.81	40.00	-12.19
143.49	H	Peak	41.09	-13.42	27.67	43.50	-15.83
218.18	H	Peak	45.27	-14.99	30.28	46.00	-15.72
255.04	H	Peak	45.43	-13.69	31.74	46.00	-14.26
293.84	H	Peak	49.53	-13.19	36.34	46.00	-9.66

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	Test Date	Nov. 15, 2009
Fundamental Frequency	5230MHz	Test By	Jim
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)
36.79	V	Peak	50.28	-14.36	35.92	40.00	-4.08
64.92	V	Peak	44.36	-14.83	29.53	40.00	-10.47
101.78	V	Peak	44.05	-16.87	27.18	43.50	-16.32
255.04	V	Peak	44.05	-13.69	30.36	46.00	-15.64
293.84	V	Peak	50.51	-13.19	37.32	46.00	-8.68
667.29	V	Peak	37.79	-5.02	32.77	46.00	-13.23
36.79	H	Peak	47.78	-14.36	33.42	40.00	-6.58
70.74	H	Peak	44.21	-16.27	27.94	40.00	-12.06
218.18	H	Peak	45.48	-14.99	30.49	46.00	-15.51
286.08	H	Peak	48.60	-13.26	35.34	46.00	-10.66
293.84	H	Peak	48.14	-13.19	34.95	46.00	-11.05
366.59	H	Peak	40.67	-11.17	29.50	46.00	-16.50

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

Operation Mode	TX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3445.0	40.62	---	1.89	42.51	---	74.00	54.00	-11.49	Peak
10360.0	24.09	---	17.47	41.56	---	75.00	54.00	-12.44	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		

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	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	52.15	---	-6.22	45.93	---	74.00	54.00	-8.07	Peak
10360.0	24.73	---	17.47	42.20	---	74.00	54.00	-11.80	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		

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	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	40.75	---	1.93	42.68	---	74.00	54.00	-11.32	Peak
10440.0	23.21	---	17.63	40.84	---	74.00	54.00	-13.16	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		

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	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	42.14	---	1.93	44.07	---	74.00	54.00	-9.93	Peak
10440.0	24.77	---	17.63	42.40	---	75.00	54.00	-11.60	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		

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	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	47.85	---	-6.22	41.63	---	74.00	54.00	-12.37	Peak
10480.0	24.39	---	17.74	42.13	---	74.00	54.00	-11.87	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		

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	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3495.0	41.33	---	2.06	43.39	---	74.00	54.00	-10.61	Peak
10480.0	24.21	---	17.74	41.95	---	74.00	54.00	-12.05	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		

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, Comp

Operation Mode	TX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3445.0	40.37	---	1.89	42.26	---	74.00	54.00	-11.74	Peak
10360.0	24.84	---	17.47	42.31	---	75.00	54.00	-11.69	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		

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 65 %

Test Date Nov. 15, 2009
 Test By Jim
 Pol Hor

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	47.95	---	-6.22	41.73	---	74.00	54.00	-12.27	Peak
10360.0	24.43	---	17.47	41.90	---	74.00	54.00	-12.10	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		

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	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
				Peak (dBuV/m)	AV (dBuV/m)				
1995.0	44.82	---	-3.44	41.38	---	74.00	54.00	-12.62	Peak
10440.0	24.79	---	17.63	42.42	---	74.00	54.00	-11.58	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		

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	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
				Peak (dBuV/m)	AV (dBuV/m)				
1435.0	49.98	---	-6.22	43.76	---	74.00	54.00	-10.24	Peak
10440.0	24.89	---	17.63	42.52	---	75.00	54.00	-11.48	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		

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 65 %

Test Date Nov. 15, 2009
 Test By Jim
 Pol Ver

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	40.19	---	1.93	42.12	---	74.00	54.00	-11.88	Peak
10480.0	24.43	---	17.74	42.17	---	74.00	54.00	-11.83	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		

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	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	52.06	---	-6.22	45.84	---	74.00	54.00	-8.16	Peak
10480.0	24.22	---	17.74	41.96	---	74.00	54.00	-12.04	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		

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, Comp

Operation Mode	TX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5190MHz	Test By	Jim
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1245.0	47.38	---	-7.04	40.34	---	74.00	54.00	-13.66	Peak
10380.0	24.98	---	17.52	42.50	---	74.00	54.00	-11.50	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		

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	Nov. 15, 2009
Fundamental Frequency	5190MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
				Peak (dBuV/m)	AV (dBuV/m)				
1435.0	52.05	---	-6.22	45.83	---	74.00	54.00	-8.17	Peak
10380.0	24.59	---	17.52	42.11	---	74.00	54.00	-11.89	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		

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	Nov. 15, 2009
Fundamental Frequency	5230MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1985.0	45.44	---	-3.47	41.97	---	74.00	54.00	-12.03	Peak
10460.0	25.33	---	17.67	43.00	---	74.00	54.00	-11.00	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		

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	Nov. 15, 2009
Fundamental Frequency	5230MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	51.85	---	-6.22	45.63	---	74.00	54.00	-8.37	Peak
10460.0	24.62	---	17.67	42.29	---	74.00	54.00	-11.71	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		

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	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	40.19	---	1.93	42.12	---	74.00	54.00	-11.88	Peak
10480.0	24.43	---	17.74	42.17	---	74.00	54.00	-11.83	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		

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 65 %

Test Date Nov. 15, 2009
 Test By Jim
 Pol Hor

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
1435.0	52.06	---	-6.22	45.84	---	74.00	54.00	-8.16	Peak
10480.0	24.22	---	17.74	41.96	---	74.00	54.00	-12.04	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		

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 (below 1GHz) UNII HT20 (Worse case)

Operation Mode	RX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
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 Margin (dB)
36.79	V	Peak	50.90	-14.36	36.54	40.00	-3.46
62.98	V	Peak	45.35	-14.85	30.50	40.00	-9.50
90.14	V	Peak	46.81	-17.62	29.19	43.50	-14.31
101.78	V	Peak	45.69	-16.87	28.82	43.50	-14.68
177.44	V	Peak	41.71	-14.38	27.33	43.50	-16.17
245.34	V	Peak	38.71	-13.98	24.73	46.00	-21.27
39.70	H	Peak	45.36	-13.73	31.63	40.00	-8.37
58.13	H	Peak	40.61	-14.66	25.95	40.00	-14.05
67.83	H	Peak	42.17	-15.60	26.57	40.00	-13.43
245.34	H	Peak	43.94	-13.98	29.96	46.00	-16.04
606.18	H	Peak	40.63	-5.88	34.75	46.00	-11.25
659.53	H	Peak	40.06	-4.99	35.07	46.00	-10.93

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	RX CH Mid	Test Date	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
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 Margin (dB)
36.79	V	Peak	51.61	-14.36	37.25	40.00	-2.75
64.92	V	Peak	45.45	-14.83	30.62	40.00	-9.38
90.14	V	Peak	46.92	-17.62	29.30	43.50	-14.20
101.78	V	Peak	47.18	-16.87	30.31	43.50	-13.19
182.29	V	Peak	42.67	-14.67	28.00	43.50	-15.50
627.52	V	Peak	34.35	-5.43	28.92	46.00	-17.08
40.67	H	Peak	43.94	-13.74	30.20	40.00	-9.80
58.13	H	Peak	40.10	-14.66	25.44	40.00	-14.56
67.83	H	Peak	41.25	-15.60	25.65	40.00	-14.35
150.28	H	Peak	37.29	-12.83	24.46	43.50	-19.04
245.34	H	Peak	44.42	-13.98	30.44	46.00	-15.56
653.71	H	Peak	39.99	-4.97	35.02	46.00	-10.98

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 RX CH High
Fundamental Frequency 5240MHz
Temperature 25 °C
Humidity 65 %

Test Date Nov. 15, 2009
Test By Jim
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 Margin (dB)
36.79	V	Peak	50.51	-14.36	36.15	40.00	-3.85
62.98	V	Peak	45.53	-14.85	30.68	40.00	-9.32
90.14	V	Peak	46.23	-17.62	28.61	43.50	-14.89
101.78	V	Peak	44.75	-16.87	27.88	43.50	-15.62
180.35	V	Peak	41.34	-14.55	26.79	43.50	-16.71
647.89	V	Peak	33.49	-4.99	28.50	46.00	-17.50
38.73	H	Peak	44.78	-13.84	30.94	40.00	-9.06
58.13	H	Peak	39.51	-14.66	24.85	40.00	-15.15
70.74	H	Peak	41.73	-16.27	25.46	40.00	-14.54
150.28	H	Peak	37.29	-12.83	24.46	43.50	-19.04
247.28	H	Peak	42.99	-13.93	29.06	46.00	-16.94
647.89	H	Peak	38.63	-4.99	33.64	46.00	-12.36

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 (above 1GHz) UNII HT20 (Worse case)

Operation Mode	RX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	
				Peak (dBuV/m)	AV (dBuV/m)				
3460.0	40.56	---	1.92	42.48	---	74.00	54.00	-11.52	Peak
10360.0	24.48	---	17.47	41.95	---	74.00	54.00	-12.05	Peak
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					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	RX CH Low	Test Date	Nov. 15, 2009
Fundamental Frequency	5180MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	42.16	---	1.93	44.09	---	74.00	54.00	-9.91	Peak
10360.0	25.79	---	17.47	43.26	---	74.00	54.00	-10.74	Peak
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					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	RX CH Mid	Test Date	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3502.0	34.04	---	2.06	36.10	---	74.00	54.00	-17.90	Peak
10440.0	22.94	---	17.63	40.57	---	74.00	54.00	-13.43	Peak
15660.0	----					74.00	54.00		
21000.0	----					74.00	54.00		
26100.0	----					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	RX CH Mid	Test Date	Nov. 15, 2009
Fundamental Frequency	5220MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3502.0	42.44	---	1.93	44.37	---	74.00	54.00	-9.63	Peak
10440.0	23.79	---	17.63	41.42	---	74.00	54.00	-12.58	Peak
15660.0	----					74.00	54.00		
21000.0	----					74.00	54.00		
26100.0	----					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	RX CH High	Test Date	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	41.67	---	1.93	43.60	---	74.00	54.00	-10.40	Peak
10480.0	23.31	---	17.74	41.05	---	74.00	54.00	-12.95	Peak
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					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	RX CH High	Test Date	Nov. 15, 2009
Fundamental Frequency	5240MHz	Test By	Jim
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
3460.0	43.48	---	1.93	45.41	---	74.00	54.00	-8.59	Peak
10480.0	23.40	---	17.74	41.14	---	74.00	54.00	-12.86	Peak
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		

Remark:

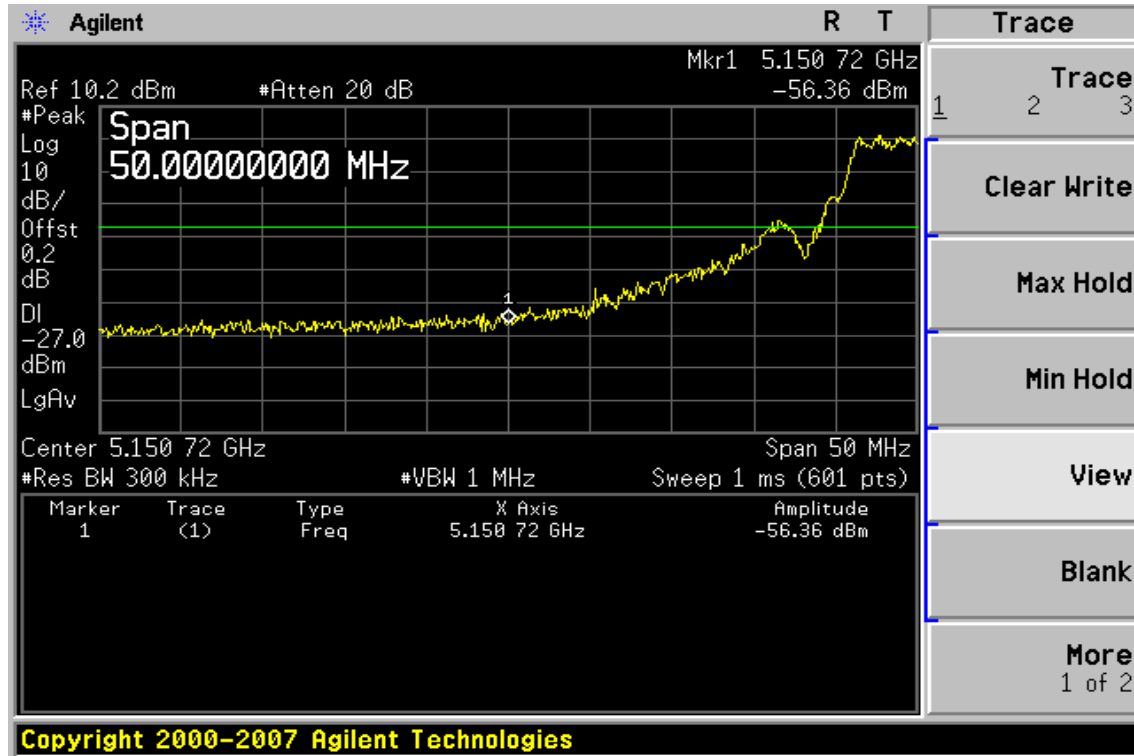
- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency °
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is 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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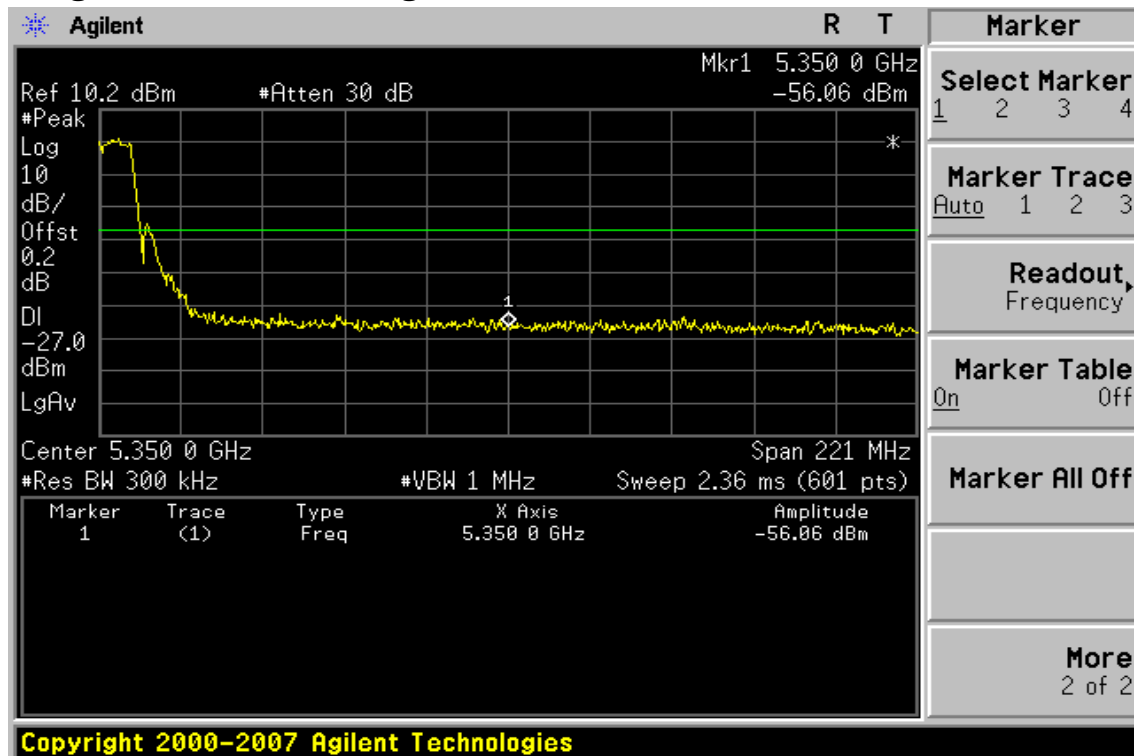
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UNII

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 Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5150.00	49.85	38.56	6.76	56.61	45.32	74.00	54.00	-8.68	A V

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

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5150.00	50.19	41.25	6.76	56.95	48.01	74.00	54.00	-5.99	A V

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 5240MHz
Temperature 25 °C
Humidity 65 %

Test Date Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	49.32	38.76	7.18	56.50	45.94	74.00	54.00	-8.06	A V

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

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	49.51	40.38	7.18	56.69	47.56	74.00	54.00	-6.44	A V

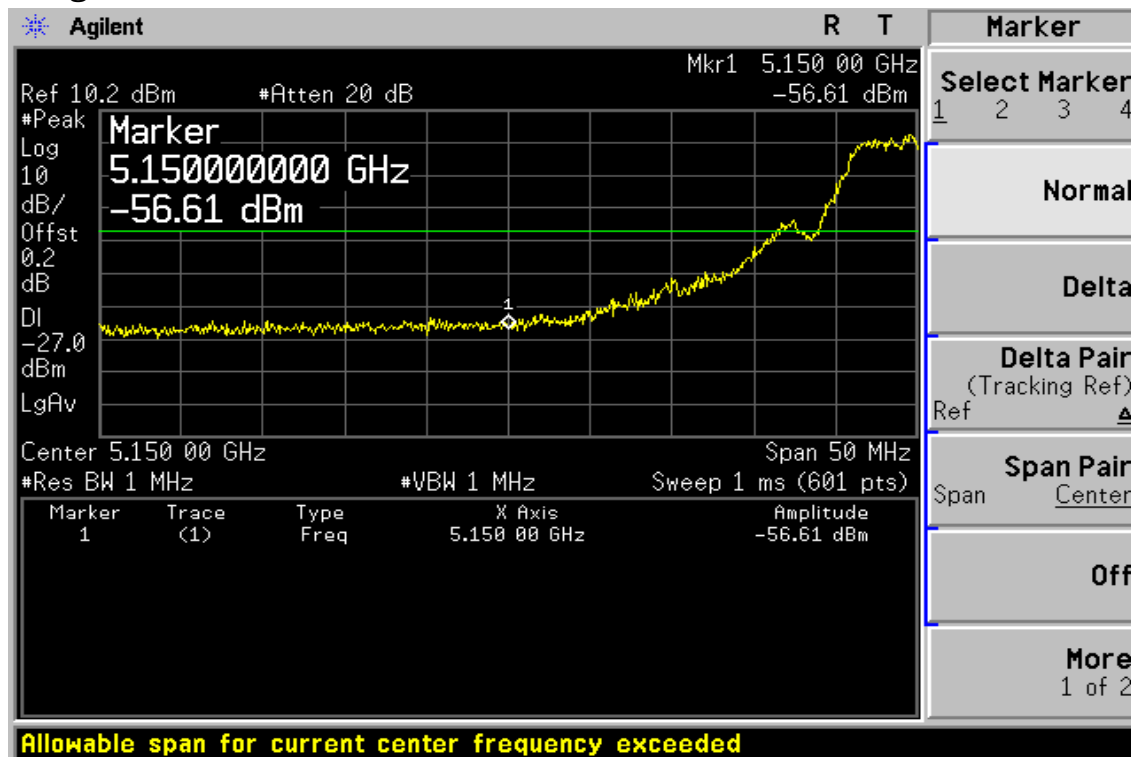
Remark:

- (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.

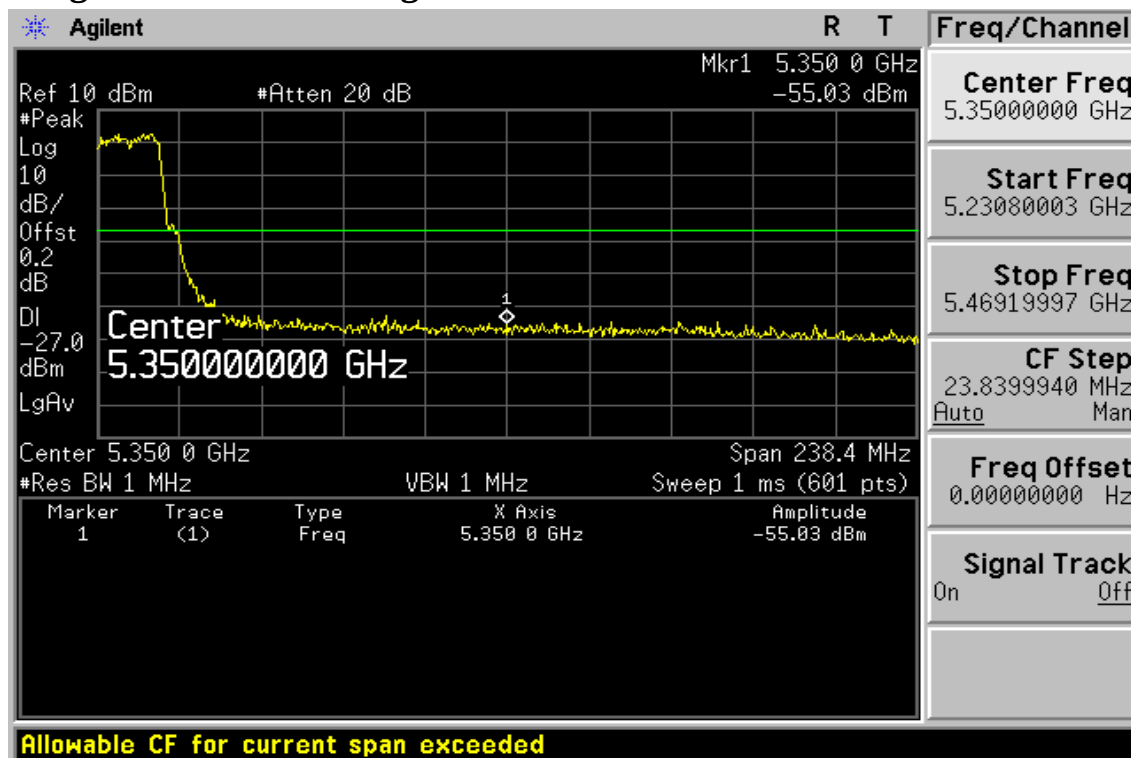
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UNII HT20, Chain 0 Band Edges Test Data CH-Low



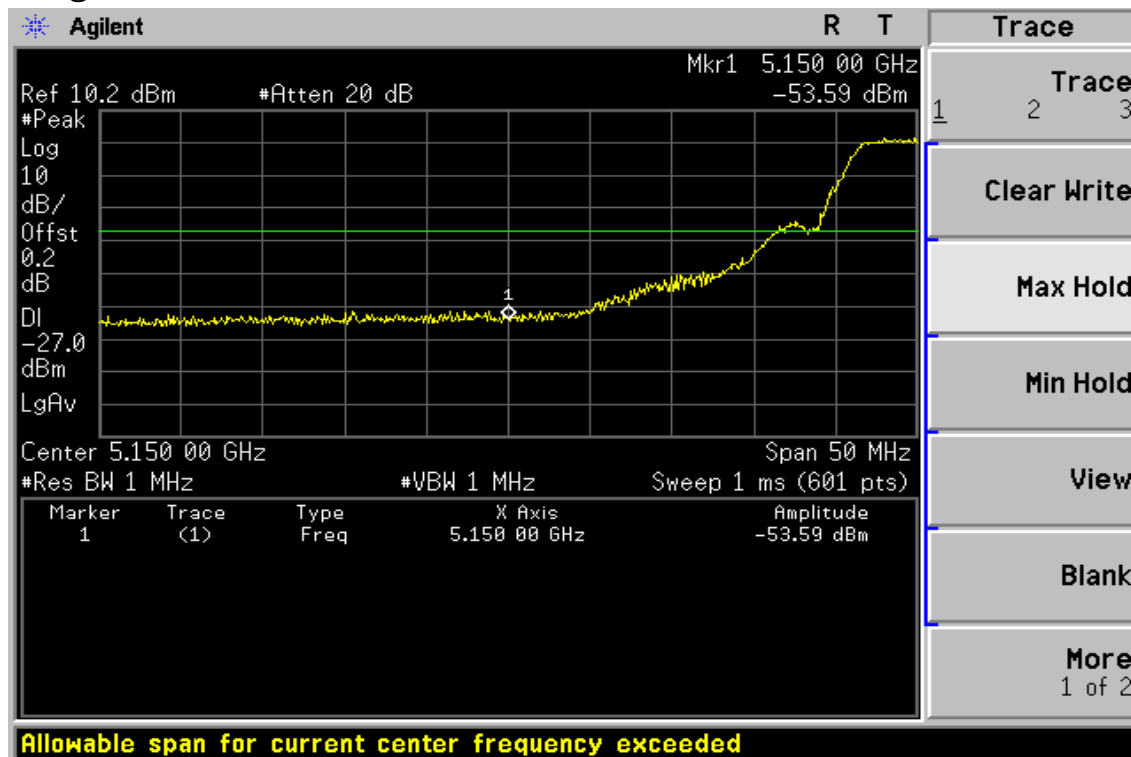
Band Edges Test Data CH-High



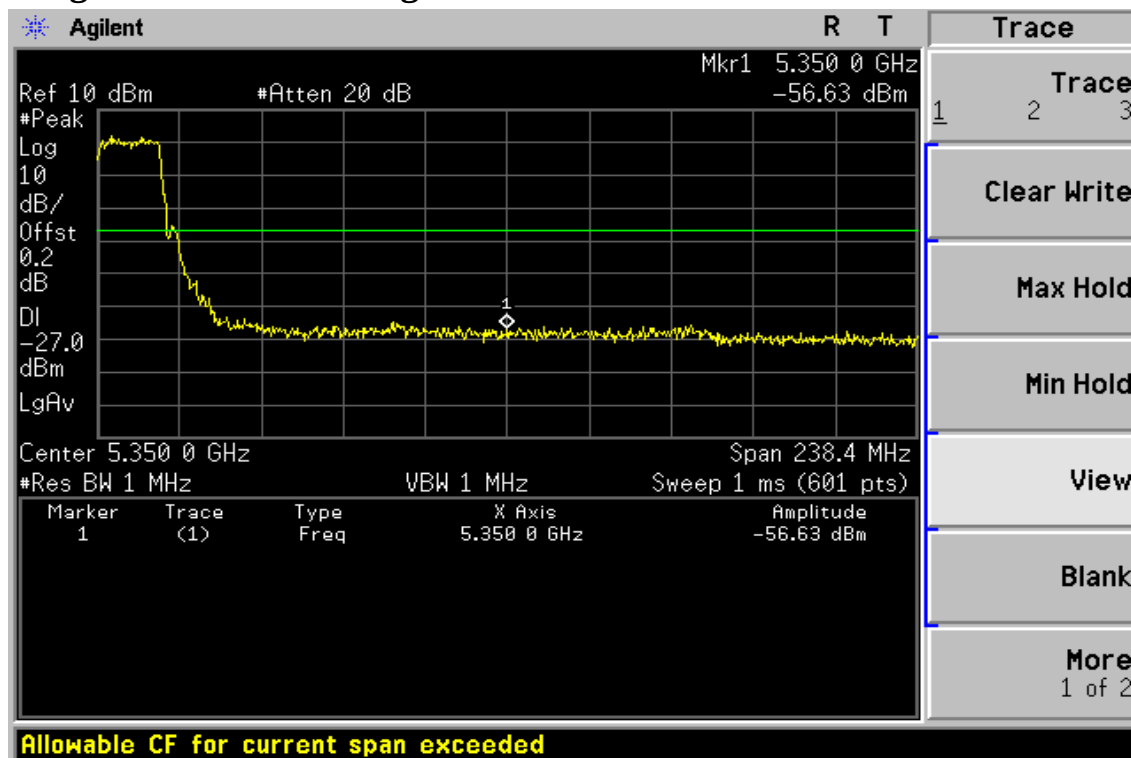
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UNII HT20, Chain 1 Band Edges Test Data CH-Low



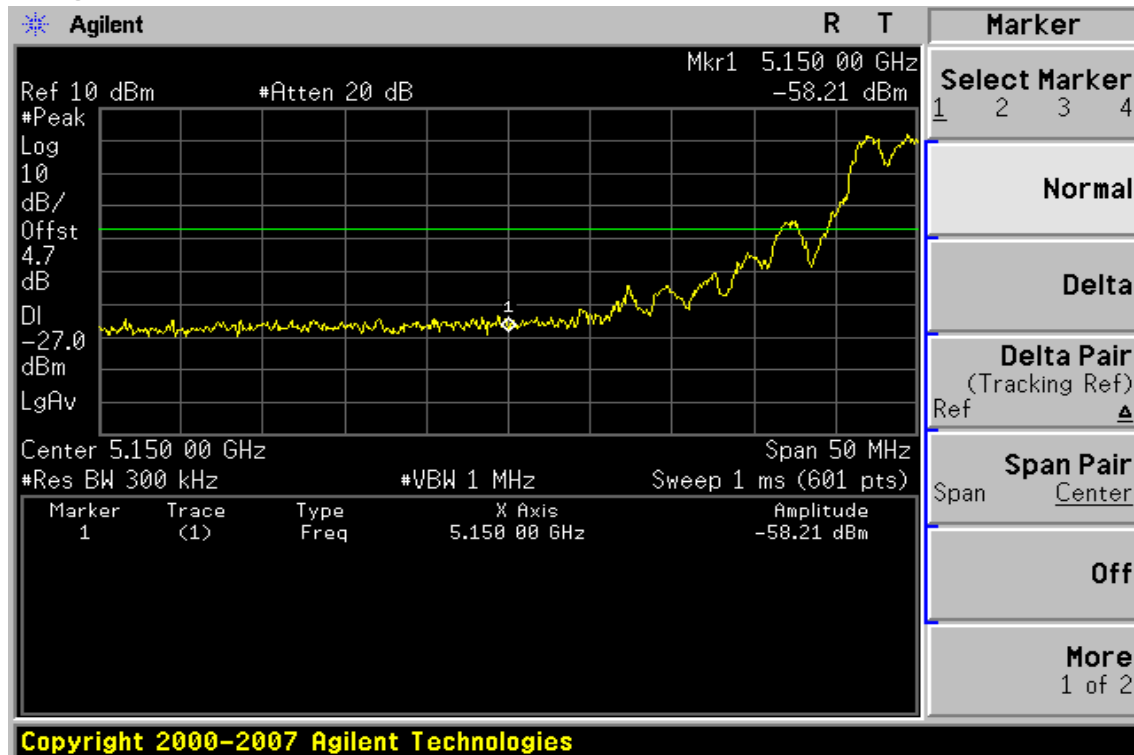
Band Edges Test Data CH-High



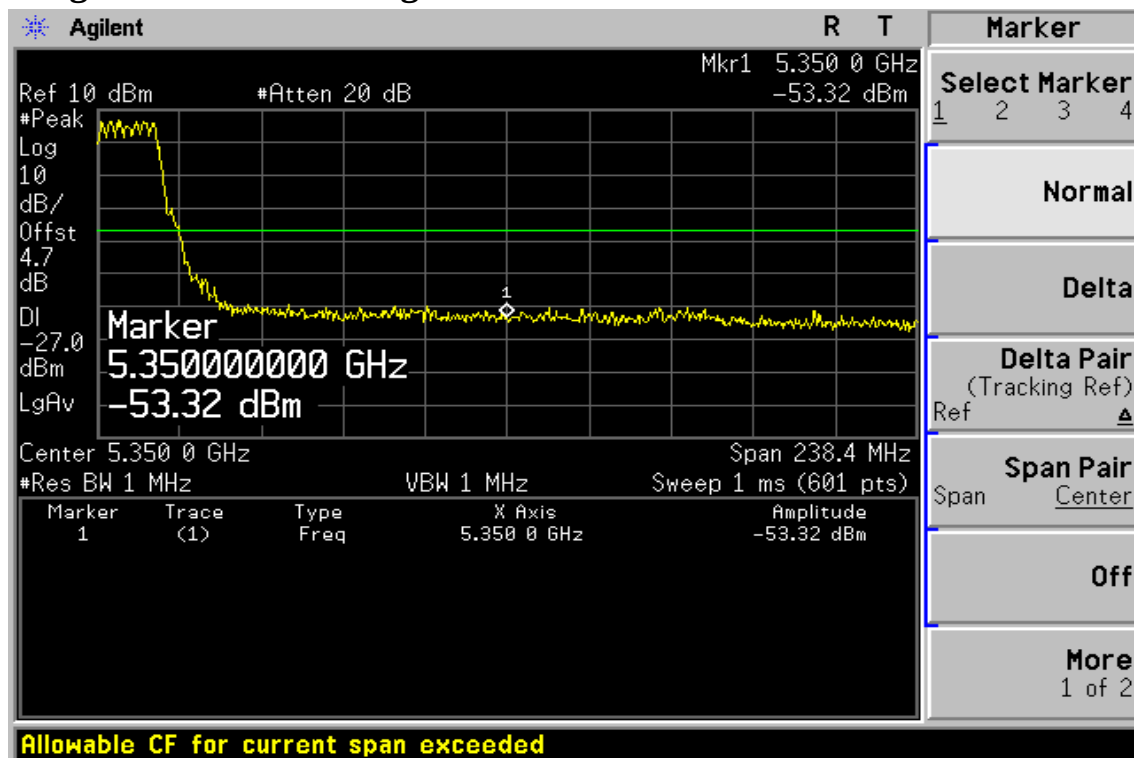
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UNII HT20, Comp Band Edges Test Data CH-Low



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 Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5150.00	50.54	40.89	6.76	57.30	47.65	74.00	54.00	-6.35	A V

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

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5150.00	50.42	41.39	6.76	57.18	48.15	74.00	54.00	-5.85	A V

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 5240 MHz
Temperature 25 °C
Humidity 65 %

Test Date Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	50.49	39.55	7.18	57.67	46.73	74.00	54.00	-7.27	A V

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

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	50.59	41.03	7.18	57.77	48.21	74.00	54.00	-5.79	A V

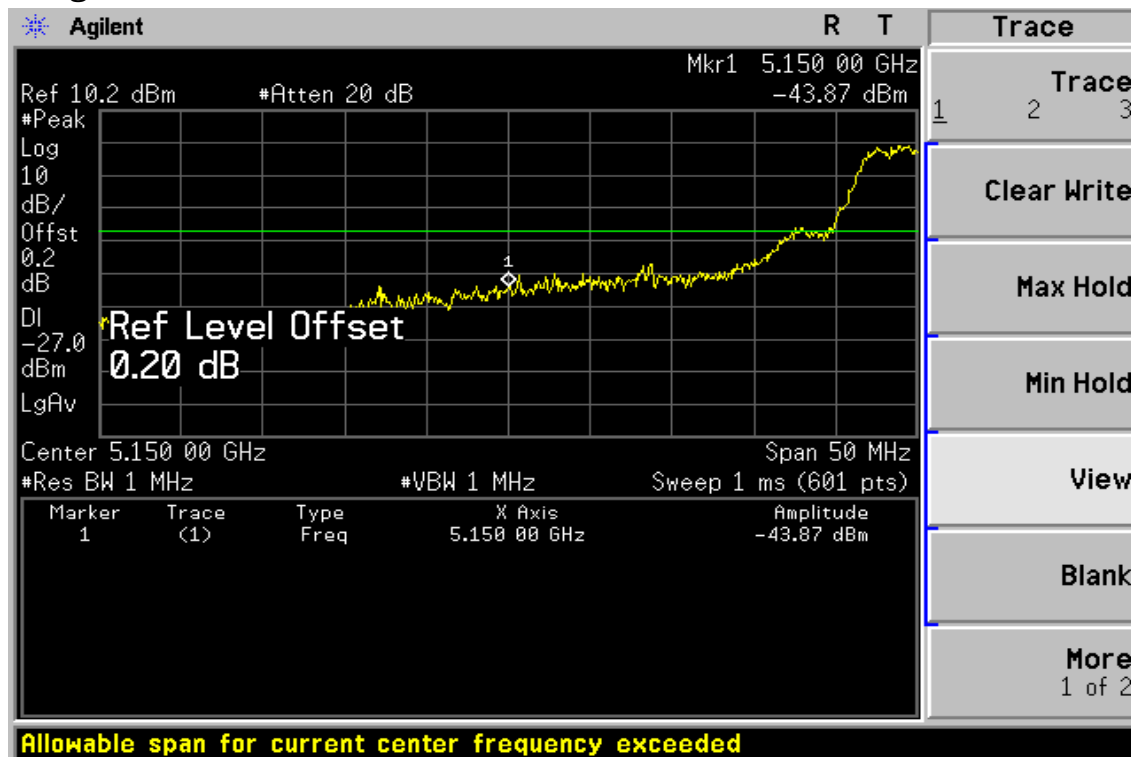
Remark:

- (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.

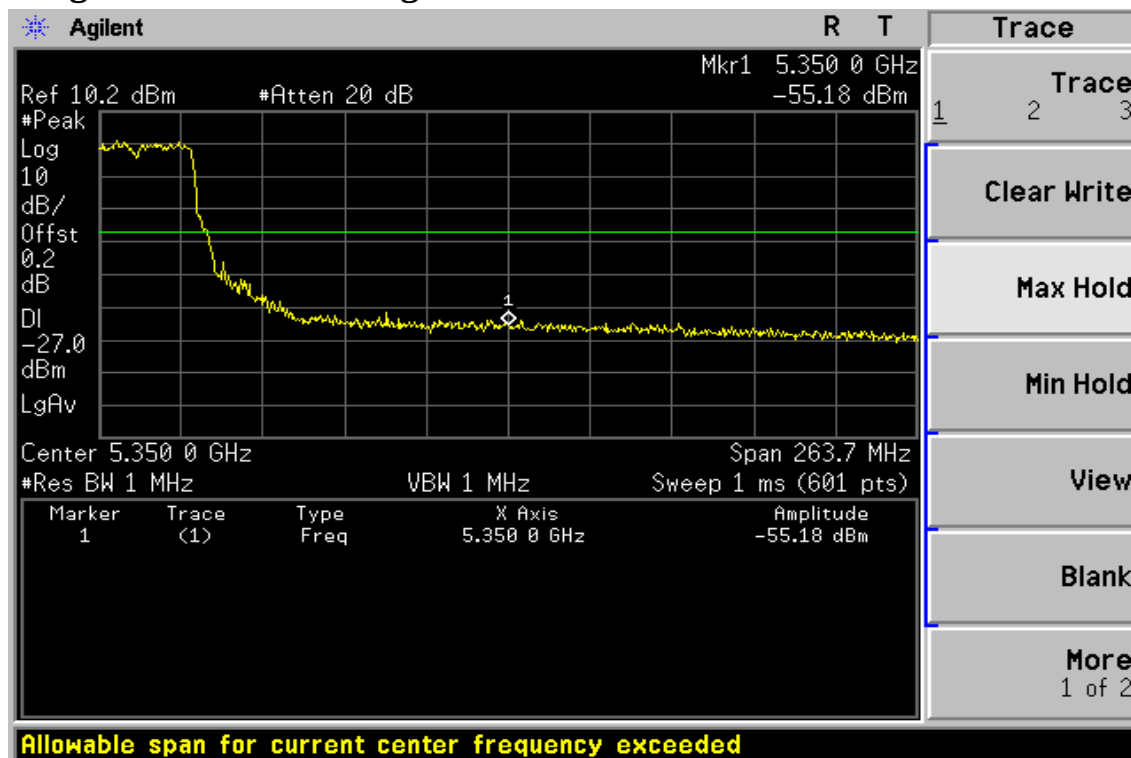
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UNII HT40 Chain 0 Band Edges Test Data CH-Low



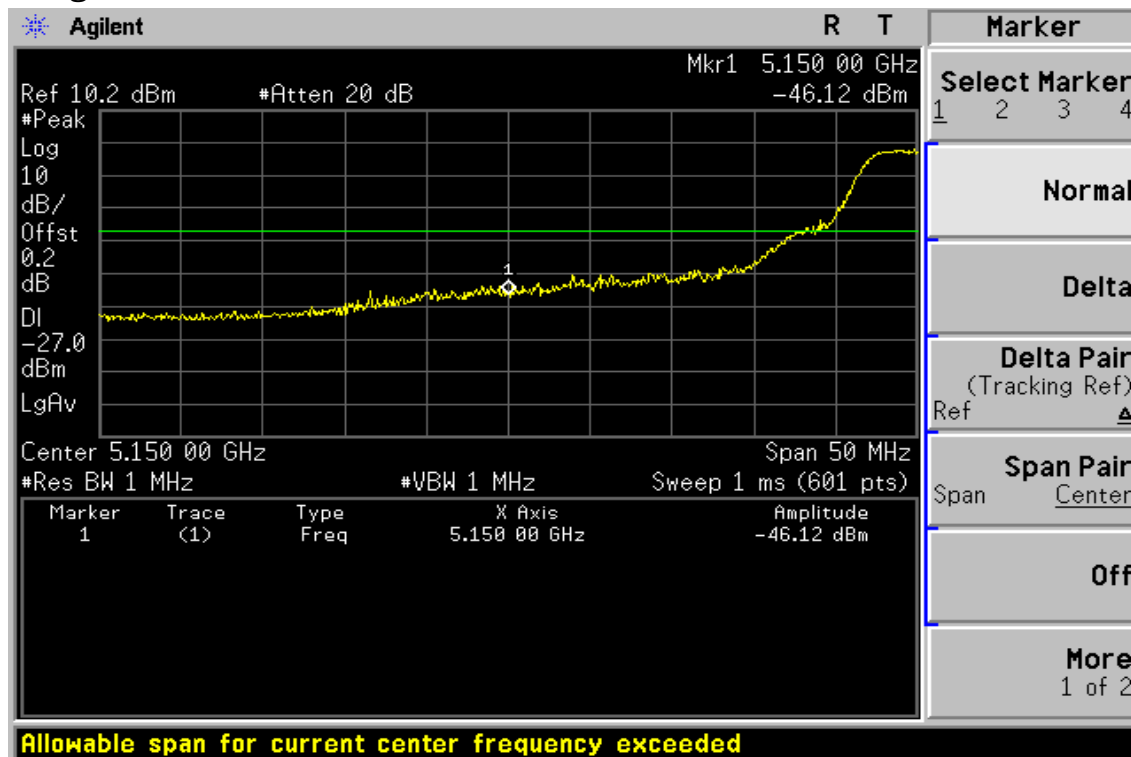
Band Edges Test Data CH-High



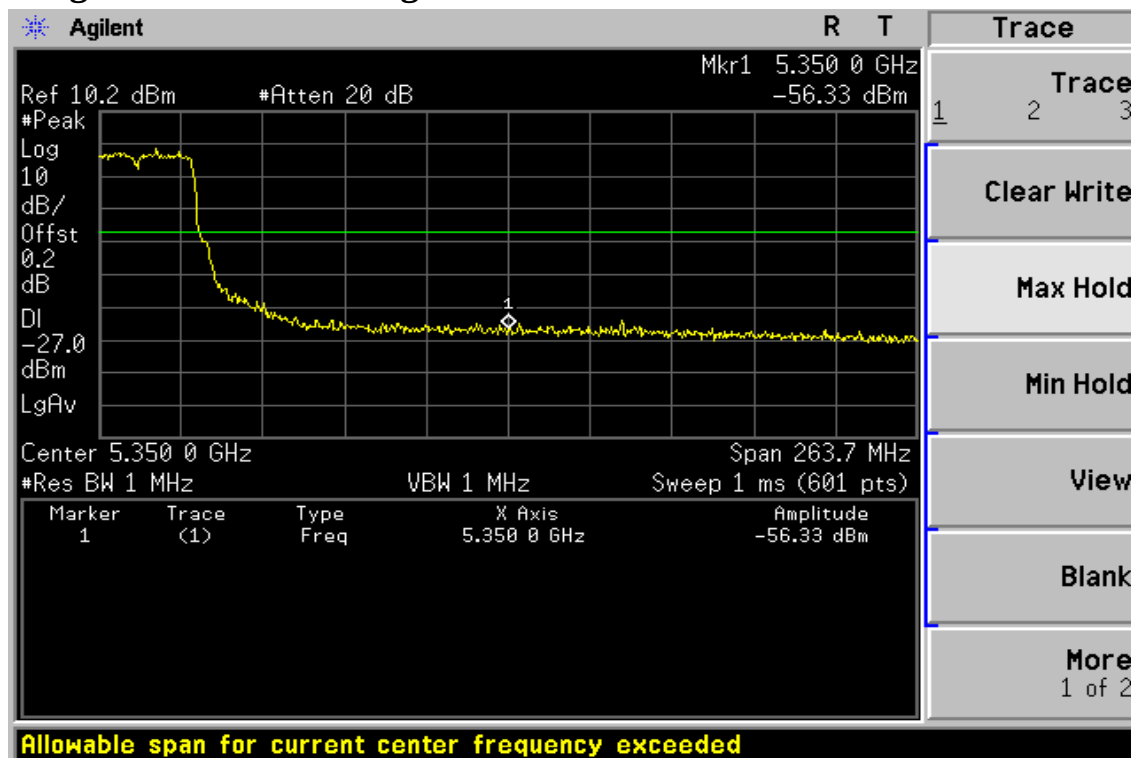
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UNII HT40 Chain 1 Band Edges Test Data CH-Low



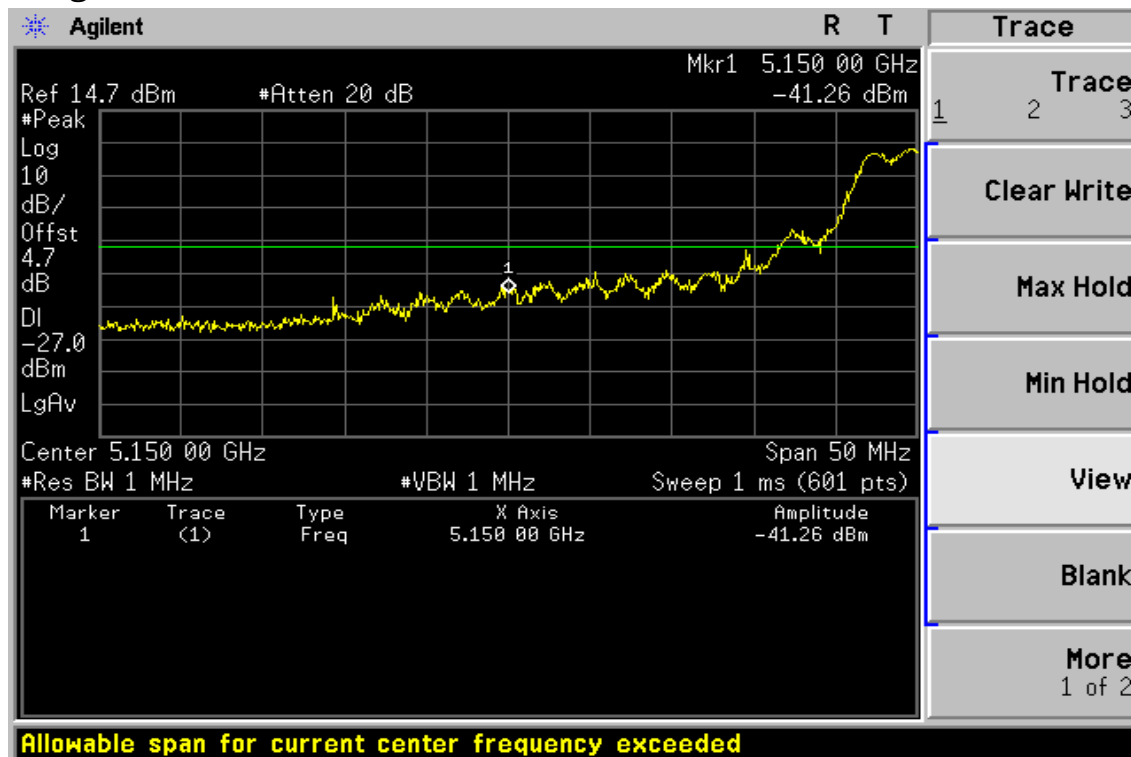
Band Edges Test Data CH-High



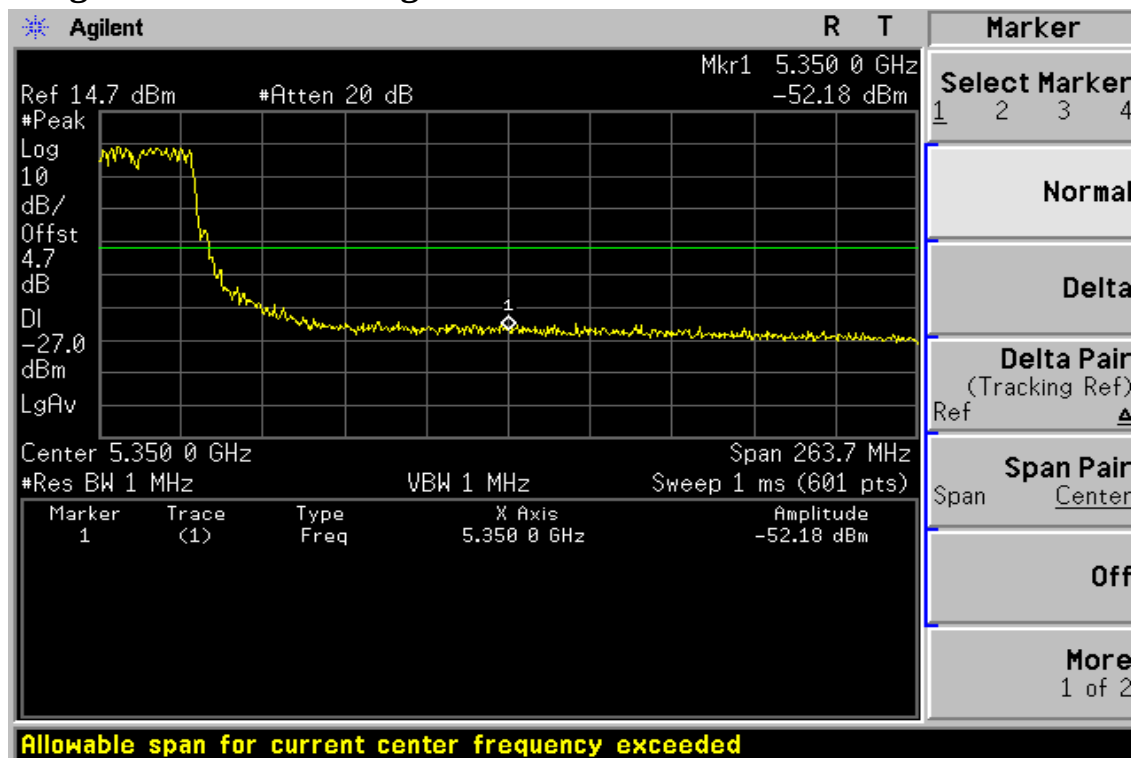
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UNII HT40 Comp Band Edges Test Data CH-Low



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 Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	Remark
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
5150.00	50.32	41.31	6.76	57.08	48.07	74.00	54.00	-5.93	A V

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

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading	AV Reading	Ant./CL CF(dB)	Actual FS		Peak Limit	AV Limit	Margin (dB)	Remark
	(dBuV)	(dBuV)		Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)		
5150.00	51.29	42.43	6.76	58.05	49.19	74.00	54.00	-4.81	A V

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 5230 MHz
Temperature 25 °C
Humidity 65 %

Test Date Nov. 15, 2009
Test By Jim
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	49.62	40.28	7.18	56.80	47.46	74.00	54.00	-6.54	A V

Operation Mode TX CH High
Fundamental Frequency 5230 MHz
Temperature 25 °C
Humidity 65 %

Test Date Nov. 15, 2009
Test By Jim
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
5350.00	49.65	41.37	7.18	56.83	48.55	74.00	54.00	-5.45	A V

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.

According to RSS-210 A9.5

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

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.

According to A9.5

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

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 gains of antenna used for transmitting is -0.22dBi for 2.4GHz, 5.53dBi 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. Maximum Permissible Exposure (MPE)

15.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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15.2 Maximum Permissible Exposure (MPE) Evaluation

The worse case of UNII mode Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5180.00	14.03	0.00	14.03	0.02529	1
5220.00	14.00	0.00	14.00	0.02512	1
5240.00	14.03	0.00	14.03	0.02529	1

MPE Prediction (802.11a)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	14.03	(dBm)
Maximum peak output power at antenna input terminal:	25.29297996	(mW)
Duty cycle:	100	(%)
Maximum Pav :	25.29297996	(mW)
Antenna gain (typical):	5.53	(dBi)
Maximum antenna gain:	3.572728382	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5180	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0179867	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01799 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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