

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT OF

Product Name: HTC Media Link
Brand Name: HTC
Model Name: DG H100
Model Different: N/A
FCC ID: NM8DGH100
Report No.: ER/2010/90124~125
Issue Date: Oct. 11, 2010
FCC Rule Part: §15.407
Prepared for: HTC Corporation.

No.23, Xinghua Rd., Taoyuan City, Taoyuan
 County 330, Taiwan

Prepared by: SGS Taiwan Ltd.
 Electronics & Communication Laboratory
 No. 134, Wu Kung Rd., Wuku Industrial
 Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: HTC Corporation.
 No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan

Product Name: HTC Media Link

Brand Name: HTC

FCC ID: NM8DGH100

Model No.: DG H100

Model Difference: N/A

File Number: ER/2010/90124~125

Date of test: Sep. 23, 2010 ~ Oct. 11, 2010

Date of EUT Received: Sep. 23, 2010

We hereby certify that:

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

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

Test By:	 <hr style="border: 0.5px solid black;"/> Sky Wang / Asst. Supervisor	Date:	Oct. 11, 2010 <hr style="border: 0.5px solid black;"/>
Prepared By:	 <hr style="border: 0.5px solid black;"/> Tiffany Kao / Clerk	Date:	Oct. 11, 2010 <hr style="border: 0.5px solid black;"/>
Approved By:	 <hr style="border: 0.5px solid black;"/> Arno Hsieh / Asst. Supervisor	Date:	Oct. 11, 2010 <hr style="border: 0.5px solid black;"/>

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Version

Version No.	Date	Description
00	Oct. 11, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	HTC Media Link	
Brand Name:	HTC	
Model Name:	DG H100	
Model Difference:	N/A	
Data Cable:	Model: DC M410, Supplier: Coxoc/ Foxlink/ MEC	
HDMI Cable:	Model: CF1613B02G75C, Supplier: COXOC	
Hardware Version:	XB02	
Software Version:	0.13.0.0	
Power Supply	100~240VAC form AC/DC Adapter	
	Adaptor:	1. Model: TC P300, Supplier: Foxlink 2. Model: TC U250, Supplier: Emerson

WLAN: 802.11 a/b/g/n

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 15.25dBm g : 16.38dBm	DSSS, OFDM	b : 11M2G1D g : 16M3G1D
11n	HT20 2412-2462	11	n : 15.20dBm	OFDM	17M5G1D

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Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11a	5150~5250	4	13.18dBm	OFDM	16M3G1D
	5250~5350	4	13.22 dBm		16M3G1D
	5470~5725	8	12.76dBm		16M3G1D
11n	HT20 5150~5250	4	HT20:13.45dBm	OFDM	17M6G1D
	HT20 5250~5350	4	HT20:13.82dBm		17M6G1D
	HT20 5470~5725	8	HT20:12.63dBm		17M6G1D
11a	5725-5850	5	a : 13.18 dBm	OFDM	16M3G1D
11n (5GHz)	HT20 5725-5850	5	HT20: 13.33 dBm		17M5G1D
Antenna Designation			PIFA Antenna 2.4G: 1.0dBi 5G: 2.0dBi		
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		

The 2.4G max antenna gain is 1.90dBi which was choosing for Radiated Spurious Emission test.

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

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

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

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

This submittal(s) (test report) is intended for **FCC ID: NM8DGH100** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3. Test Methodology

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

1.4. Test Facility

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

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

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

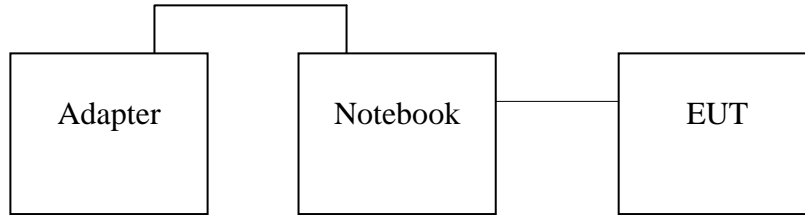


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	Notebook	HP	ProBook4411s	CNU9316C47

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3. SUMMARY OF TEST RESULT

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

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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

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

n HT 20 mode: : 5150MHz-5250MHz: Channel lowest(5180MHz) 、Mid(5220MHz) and Highest(5240MHz).

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

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

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5. AC POWER LINE CONDUCTED EMISSION TEST

5.1. Standard Applicable

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

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

Note

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

5.2. EUT Setup

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

5.3. Measurement Procedure

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

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5.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2010	09/14/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2009	11/27/2010

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.

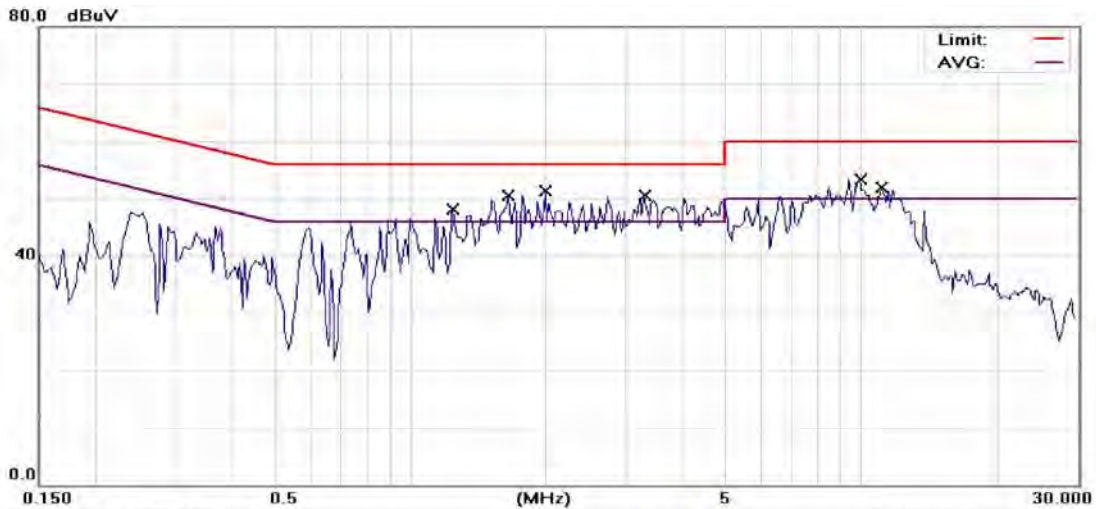
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WLAN Link			Test Date:	Oct. 11, 2010
Temperature:	23 °C	Humidity:	58 %	Test By:	Sky



Site: SGS CONDUCTED #1
 Limit: CISPR22/11/EN55022 Class B
 EUT: Wireless Product
 M/N: Router
 Note: Operation mode : Play movies (Adapter :EMERSON)
 Adapter model : TC U250 P/N 79H00095-01M HDMI Cable 183CM

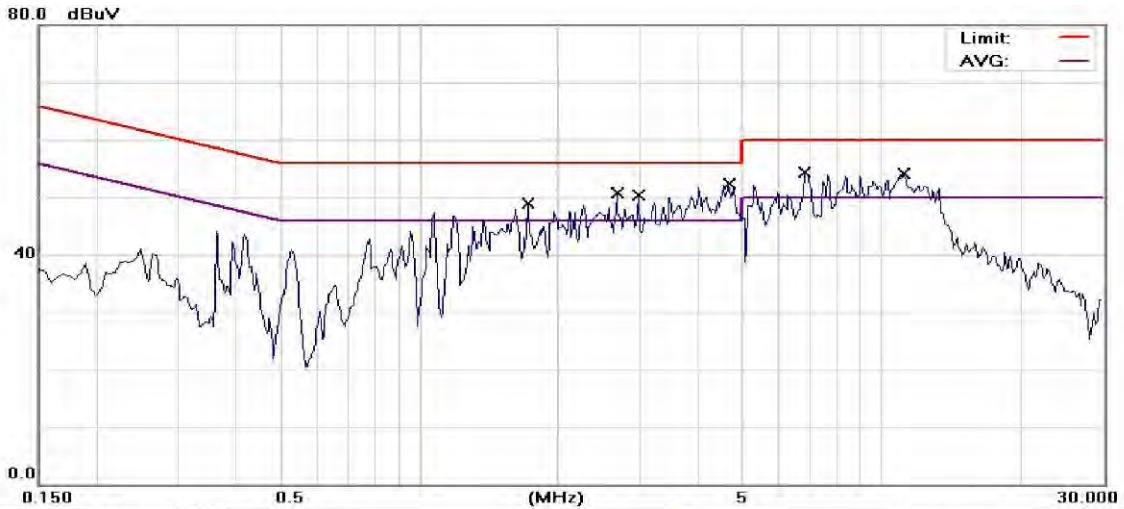
Phase: L1
 Power: AC 120V/60Hz
 Temperature: 24 °C
 Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		1.2499	40.40	0.13	40.53	56.00	-15.47	QP	
2		1.2499	25.60	0.13	25.73	46.00	-20.27	AVG	
3	*	1.6457	45.00	0.15	45.15	56.00	-10.85	QP	
4		1.6457	31.30	0.15	31.45	46.00	-14.55	AVG	
5		1.9990	42.80	0.16	42.96	56.00	-13.04	QP	
6		1.9990	29.80	0.16	29.96	46.00	-16.04	AVG	
7		3.3092	42.40	0.19	42.59	56.00	-13.41	QP	
8		3.3092	30.90	0.19	31.09	46.00	-14.91	AVG	
9		9.9203	45.60	0.52	46.12	60.00	-13.88	QP	
10		9.9203	35.80	0.52	36.32	50.00	-13.68	AVG	
11		11.1158	44.20	0.54	44.74	60.00	-15.26	QP	
12		11.1158	36.00	0.54	36.54	50.00	-13.46	AVG	

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Site SGS CONDUCTED #1 Phase: **N** Temperature: 24 °C
 Limit: CISPR22/11/EN55022 Class B Power: AC 120V/60Hz Humidity: 55 %
 EUT: Wireless Product
 M/N: Router
 Note: Operation mode : Play movies (Adapter :EMERSON)
 Adapter mode :TC U250 P/N 79H00095-01 HDMI Cable 75CM

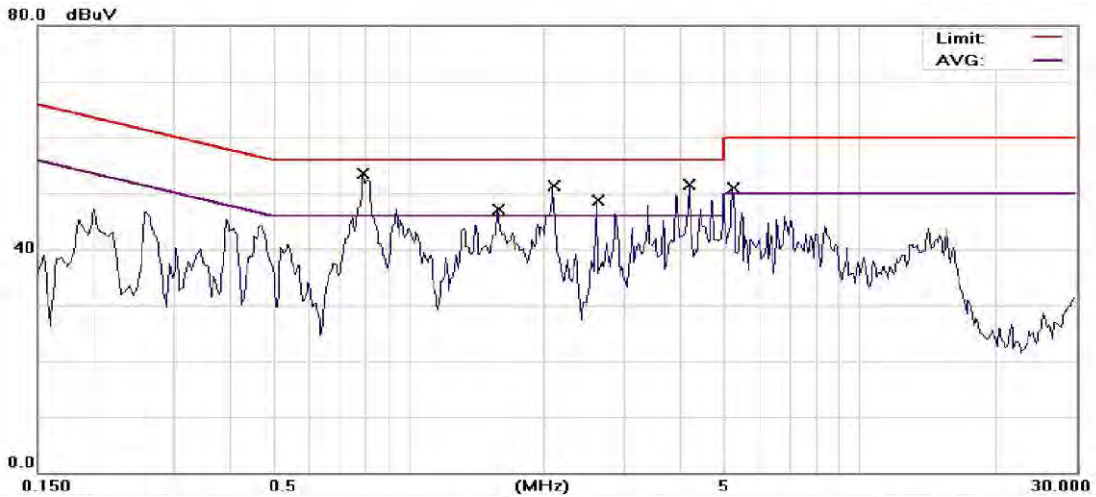
No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1.7223	44.30	0.15	44.45	56.00	-11.55	QP	
2		1.7223	34.20	0.15	34.35	46.00	-11.65	AVG	
3		2.6938	46.90	0.17	47.07	56.00	-8.93	QP	
4		2.6938	36.30	0.17	36.47	46.00	-9.53	AVG	
5		2.9957	44.00	0.18	44.18	56.00	-11.82	QP	
6		2.9957	33.90	0.18	34.08	46.00	-11.92	AVG	
7	*	4.6867	47.80	0.21	48.01	56.00	-7.99	QP	
8		4.6867	35.60	0.21	35.81	46.00	-10.19	AVG	
9		6.8385	47.30	0.31	47.61	60.00	-12.39	QP	
10		6.8385	36.60	0.31	36.91	50.00	-13.09	AVG	
11		11.1746	47.30	0.51	47.81	60.00	-12.19	QP	
12		11.1746	38.60	0.51	39.11	50.00	-10.89	AVG	

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Operation Mode:	WLAN Link			Test Date:	Oct. 11, 2010
Temperature:	23 °C	Humidity:	58 %	Test By:	Sky



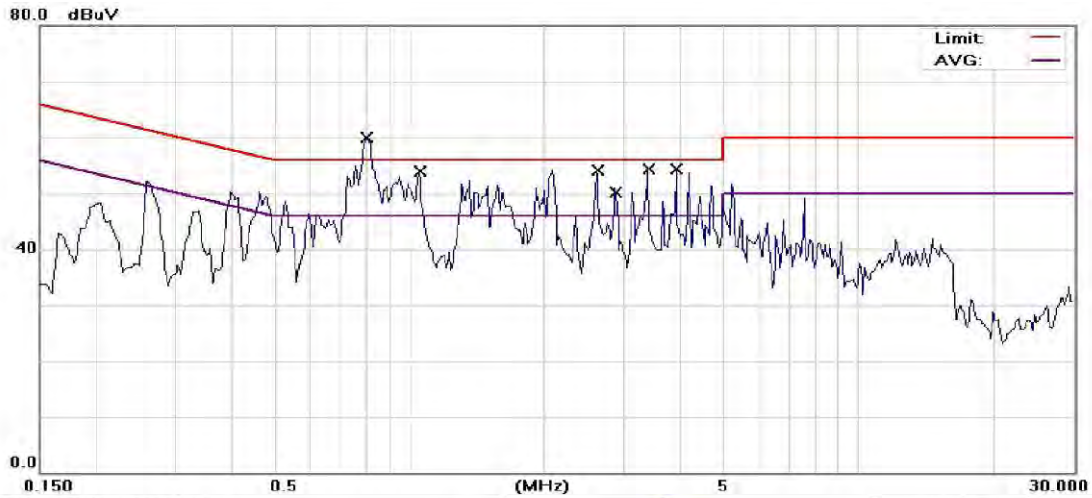
Site SGS CONDUCTED #1 Phase: **L1** Temperature: 24 °C
 Limit: CISPR22/11/EN55022 Class B Power: AC 120V/60Hz Humidity: 57 %
 EUT: Wireless Product Distance: Air Pressure: hpa
 M/N: Router
 Note: Operation mode : Play movies (New Adapter) S/N:13TA2017107739
 Adapter model :TC P300 P/N 79H00082-00M HDMI Cable 183CM

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.7836	52.30	0.12	52.42	56.00	-3.58	QP	
2		0.7836	42.20	0.12	42.32	46.00	-3.68	AVG	
3		1.5747	41.20	0.14	41.34	56.00	-14.66	QP	
4		1.5747	30.30	0.14	30.44	46.00	-15.56	AVG	
5		2.0988	49.60	0.16	49.76	56.00	-6.24	QP	
6		2.0988	38.20	0.16	38.36	46.00	-7.64	AVG	
7		2.6224	45.60	0.17	45.77	56.00	-10.23	QP	
8		2.6224	40.60	0.17	40.77	46.00	-5.23	AVG	
9		4.1922	45.60	0.20	45.80	56.00	-10.20	QP	
10		4.1922	32.50	0.20	32.70	46.00	-13.30	AVG	
11		5.2394	49.20	0.23	49.43	60.00	-10.57	QP	
12		5.2394	34.50	0.23	34.73	50.00	-15.27	AVG	

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Site: SGS CONDUCTED #1	Phase: N	Temperature: 24 °C
Limit: CISPR22/11/EN55022 Class B	Power: AC 120V/60Hz	Humidity: 57 %
EUT: Wireless Product	Distance:	Air Pressure: hpa
M/N: Router		
Note: Operation mode : Play movies (New Adapter) S/N:13TA2017107739		
Adapter model :TC P300 P/N 79H00082-00M HDMI Cable 183CM		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.8015	53.20	0.13	53.33	56.00	-2.67	QP	
2	*	0.8015	43.80	0.13	43.93	46.00	-2.07	AVG	
3		1.0450	45.30	0.13	45.43	56.00	-10.57	QP	
4		1.0450	32.60	0.13	32.73	46.00	-13.27	AVG	
5		2.6223	51.40	0.17	51.57	56.00	-4.43	QP	
6		2.6223	39.60	0.17	39.77	46.00	-6.23	AVG	
7		2.9010	52.50	0.18	52.68	56.00	-3.32	QP	
8		2.9010	42.50	0.18	42.68	46.00	-3.32	AVG	
9		3.4059	51.50	0.19	51.69	56.00	-4.31	QP	
10		3.4059	40.30	0.19	40.49	46.00	-5.51	AVG	
11		3.9205	32.70	0.20	32.90	56.00	-23.10	QP	
12		3.9205	25.60	0.20	25.80	46.00	-20.20	AVG	

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6. 26dB EMISSION BANDWIDTH MEASUREMENT

6.1 Standard Applicable

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

6.2 Measurement Procedure

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

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6.3 Measurement Equipment Used:

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

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6.4 Measurement Result

UNII, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	18.60	12.70
5220	18.63	12.70
5240	18.42	12.65

UNII, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	18.79	12.74
5300	18.86	12.75
5320	18.44	12.66

UNII, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	18.61	12.70
5580	18.83	12.75
5700	18.90	12.76

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UNII HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	19.49	12.90
5220	19.83	12.97
5240	19.80	12.97

UNII HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	19.56	12.91
5300	19.57	12.92
5320	19.58	12.92

UNII HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.55	12.91
5580	19.67	12.94
5700	19.67	12.94

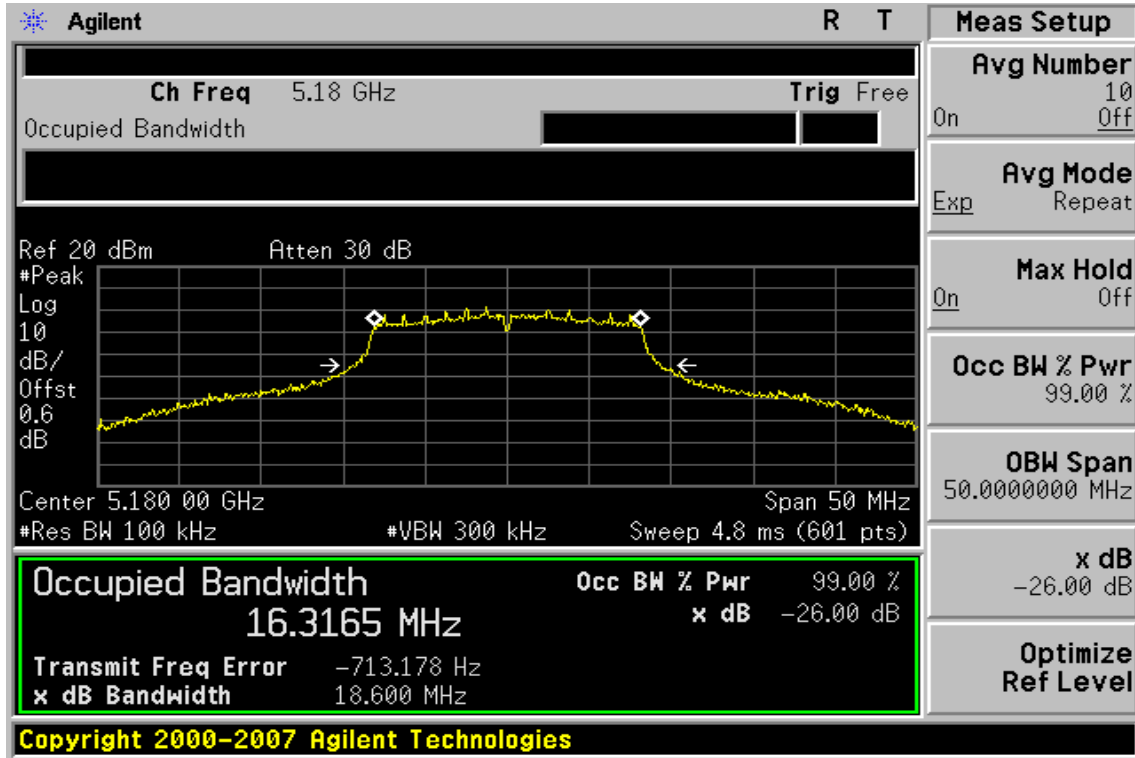
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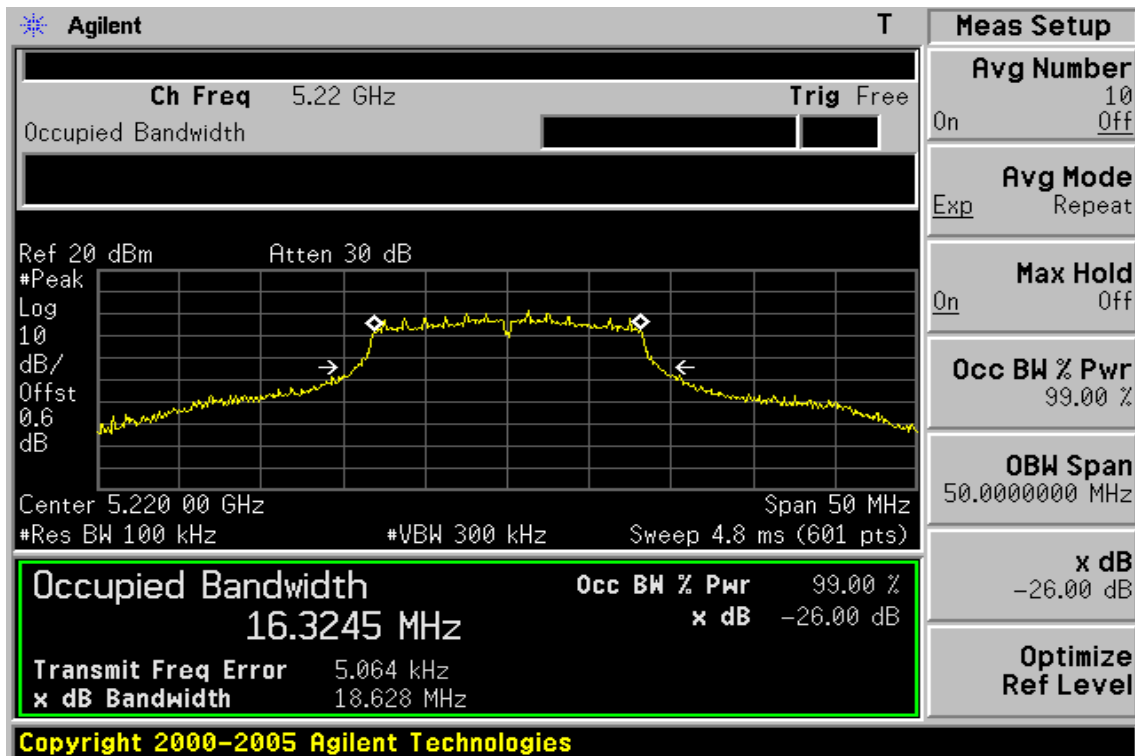
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UNII, 5150~5250 MHz

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



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

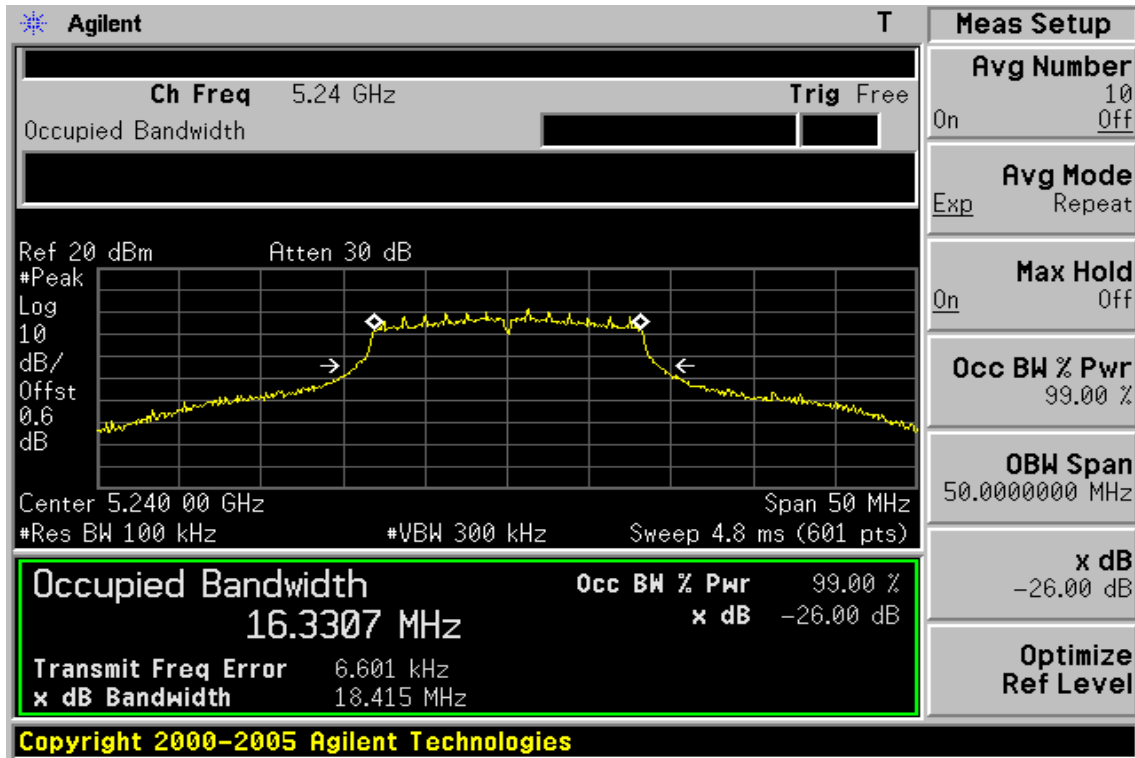


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26dB Band Width Test Data CH-Low (5240MHz)



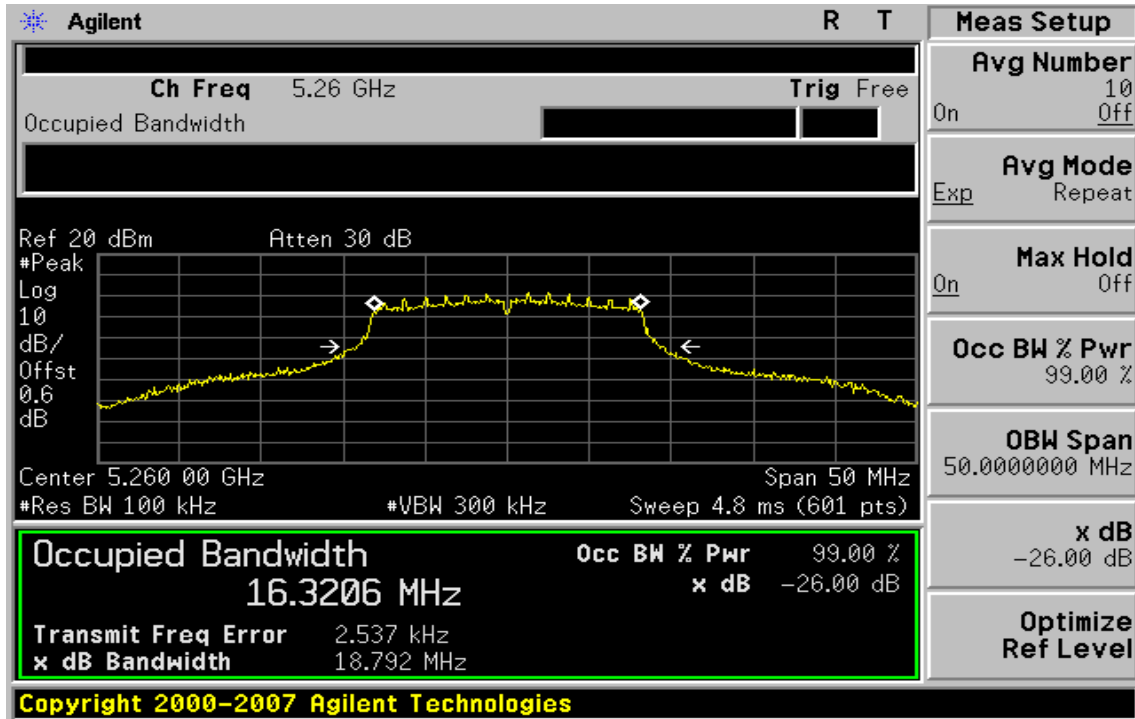
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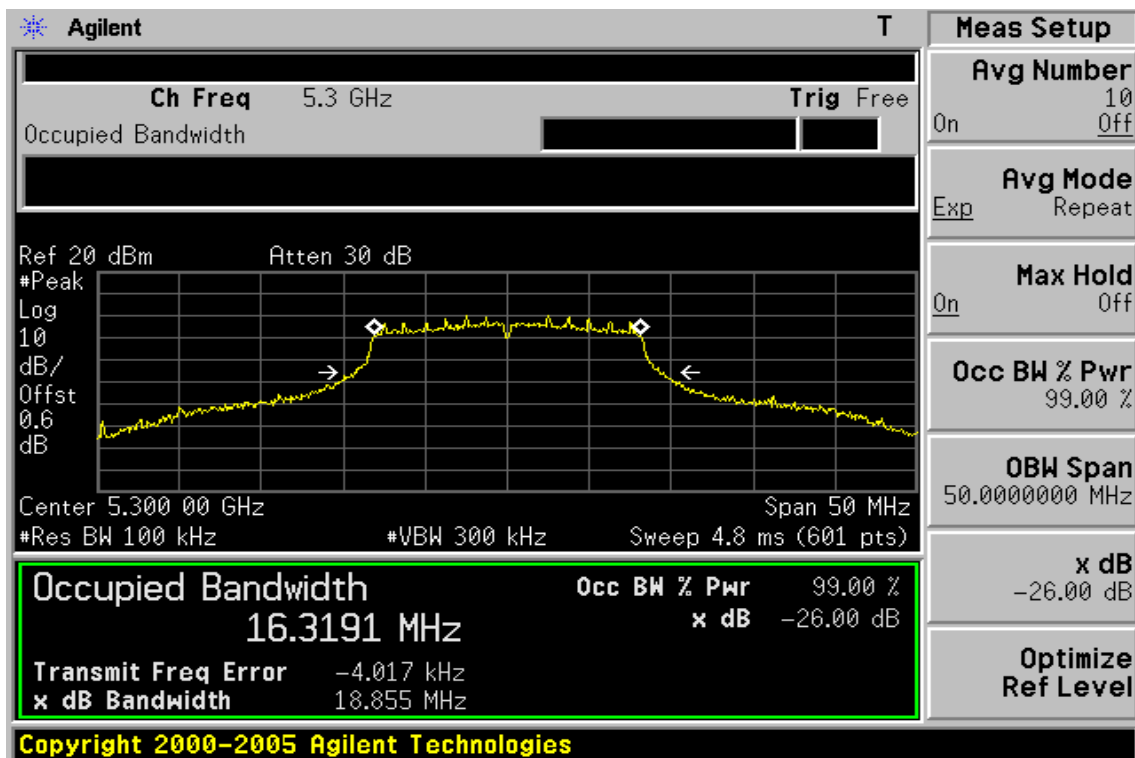
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UNII, 5250~5350 MHz

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



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

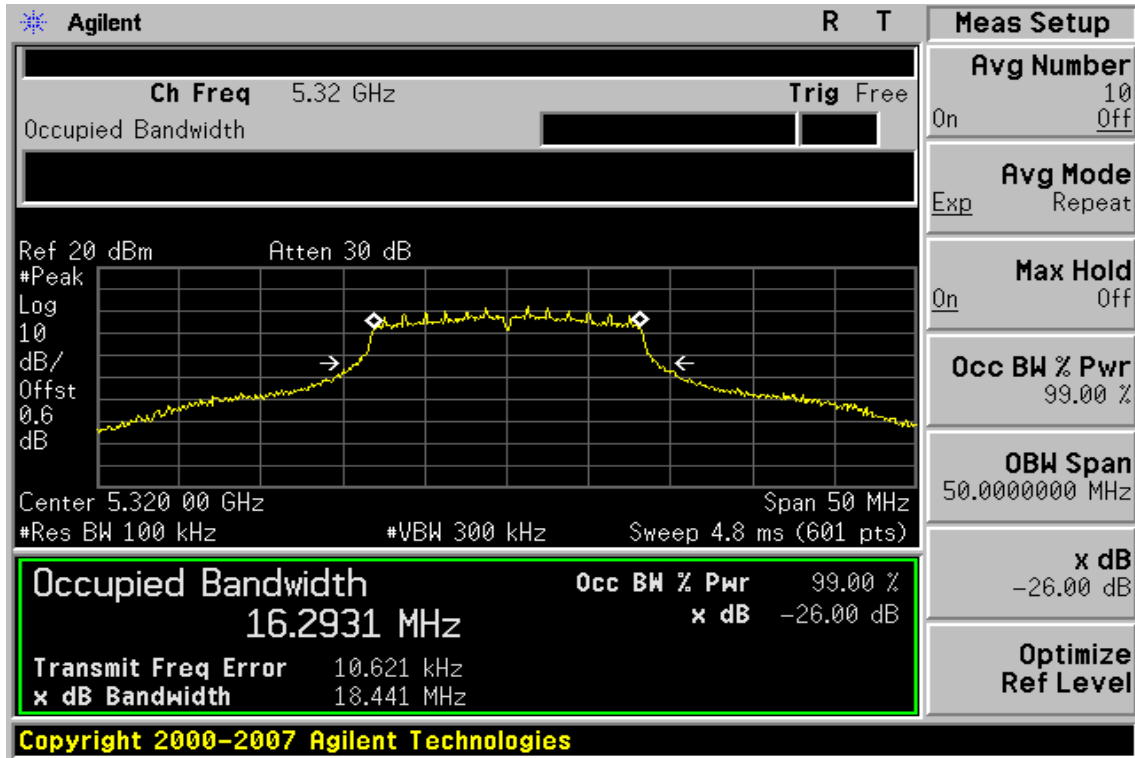


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26dB Band Width Test Data CH-High (5320MHz)



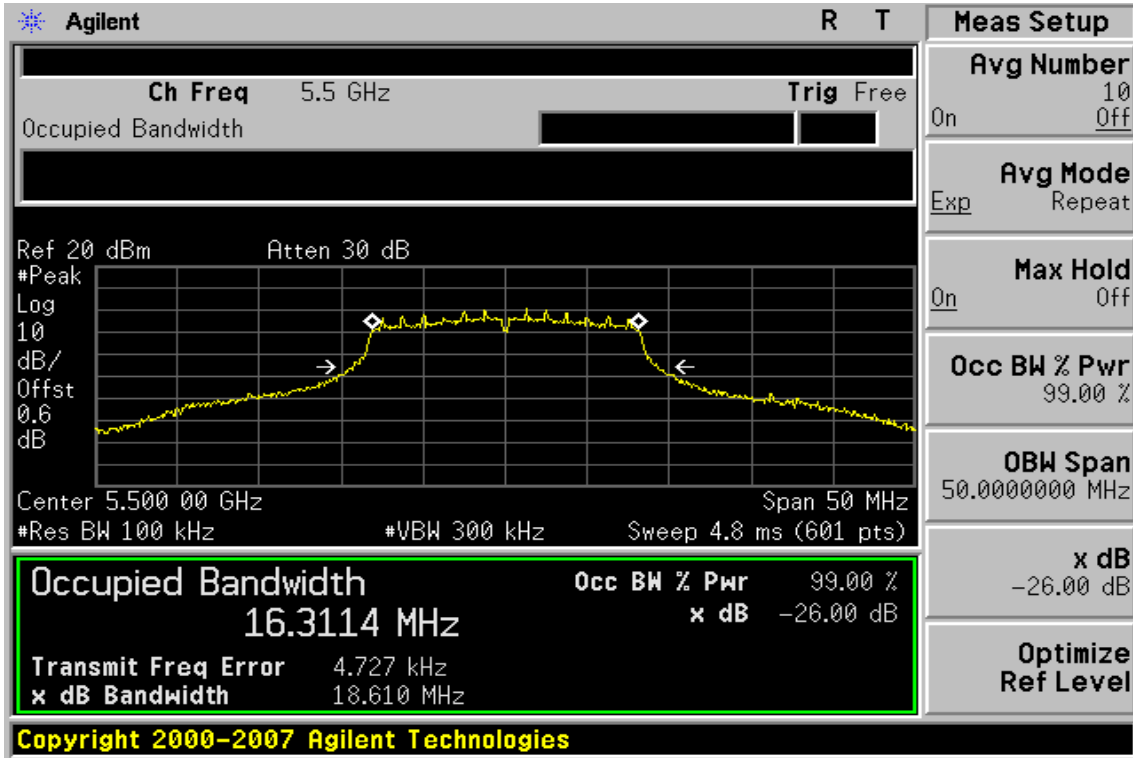
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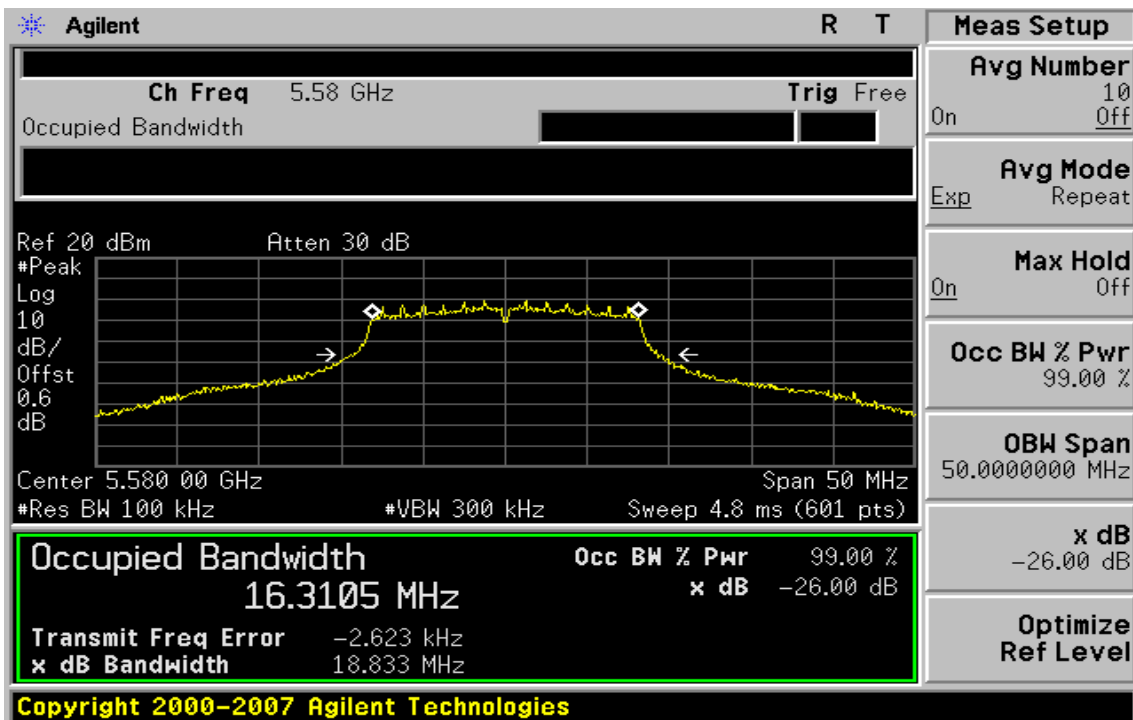
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UNII, 5470~5725 MHz

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



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

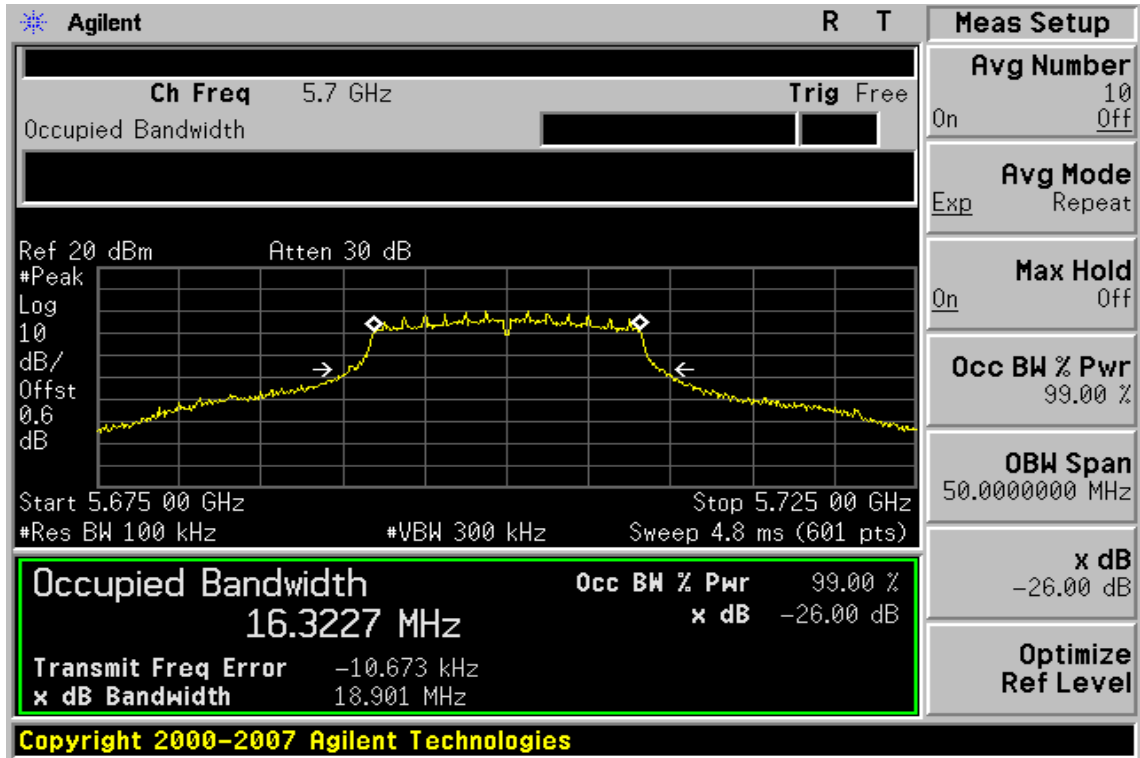


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26dB Band Width Test Data CH-High (5700MHz)



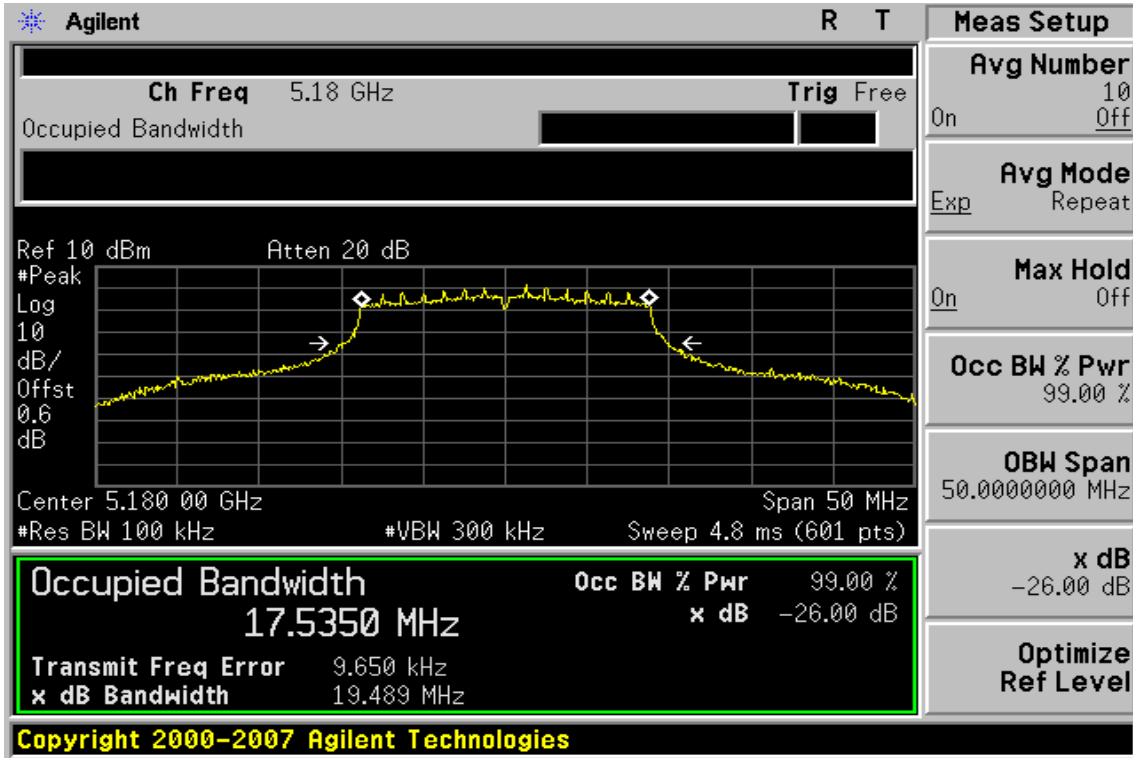
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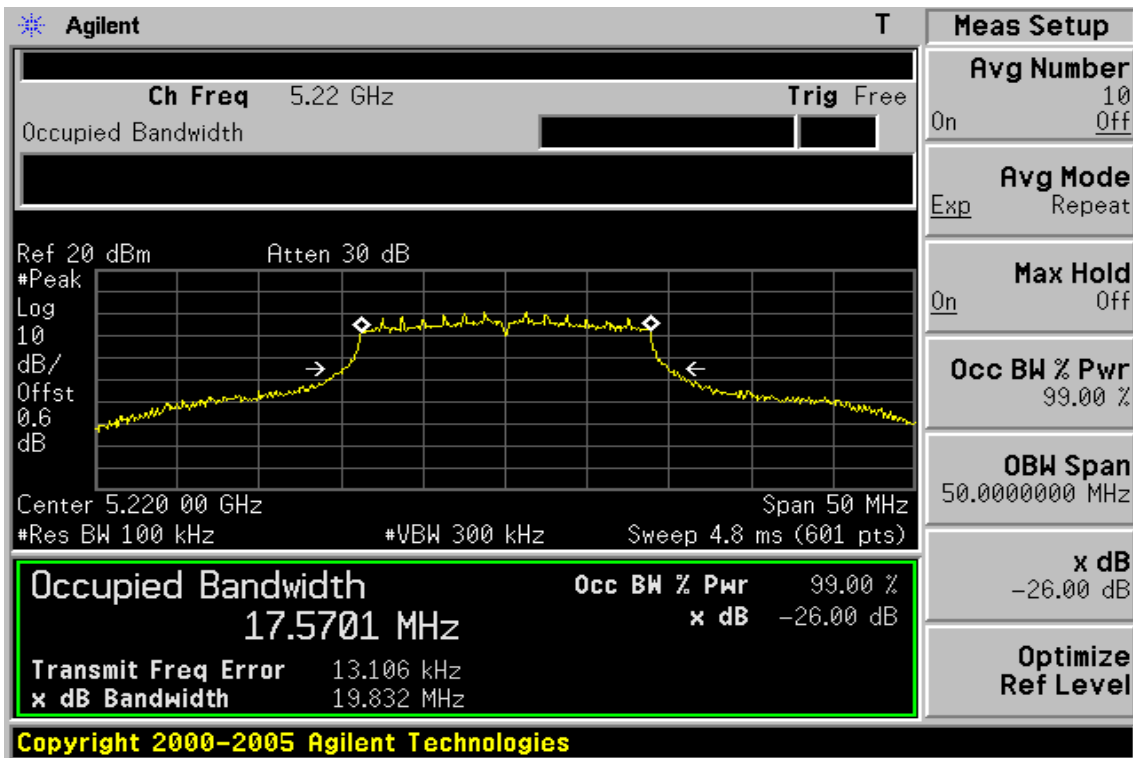
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UNII, HT 20, 5150~5250 MHz

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



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

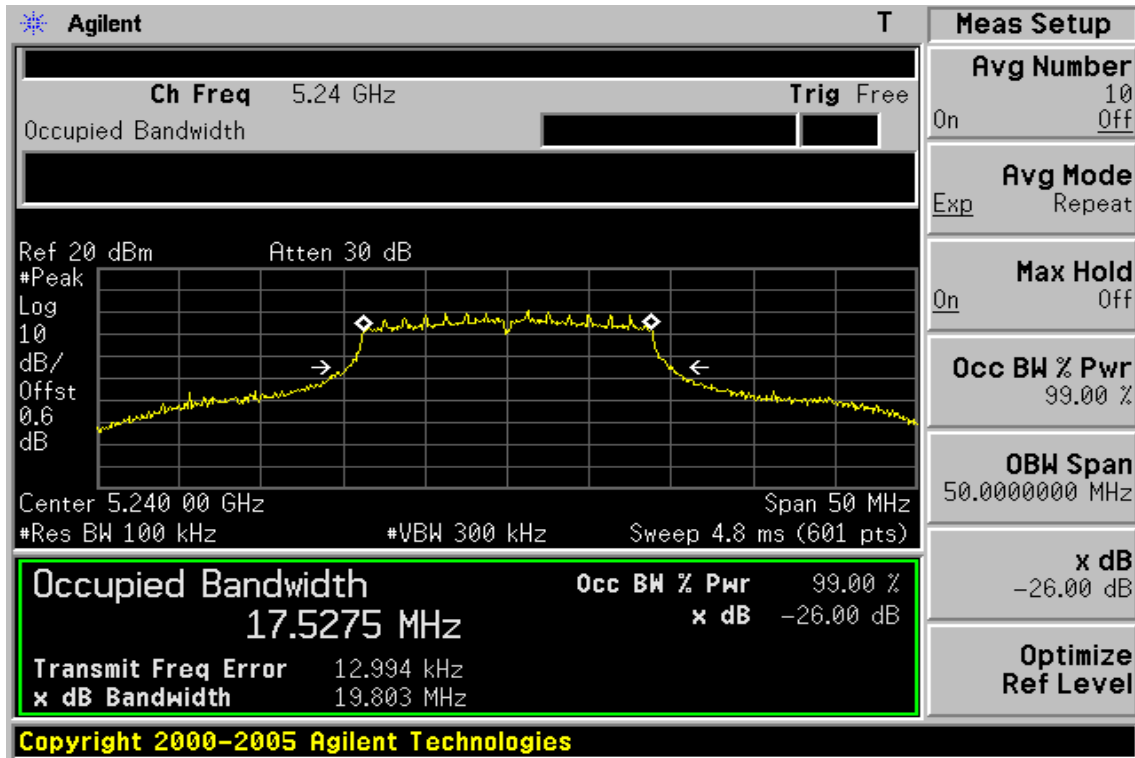


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26dB Band Width Test Data CH-Low (5240 MHz)



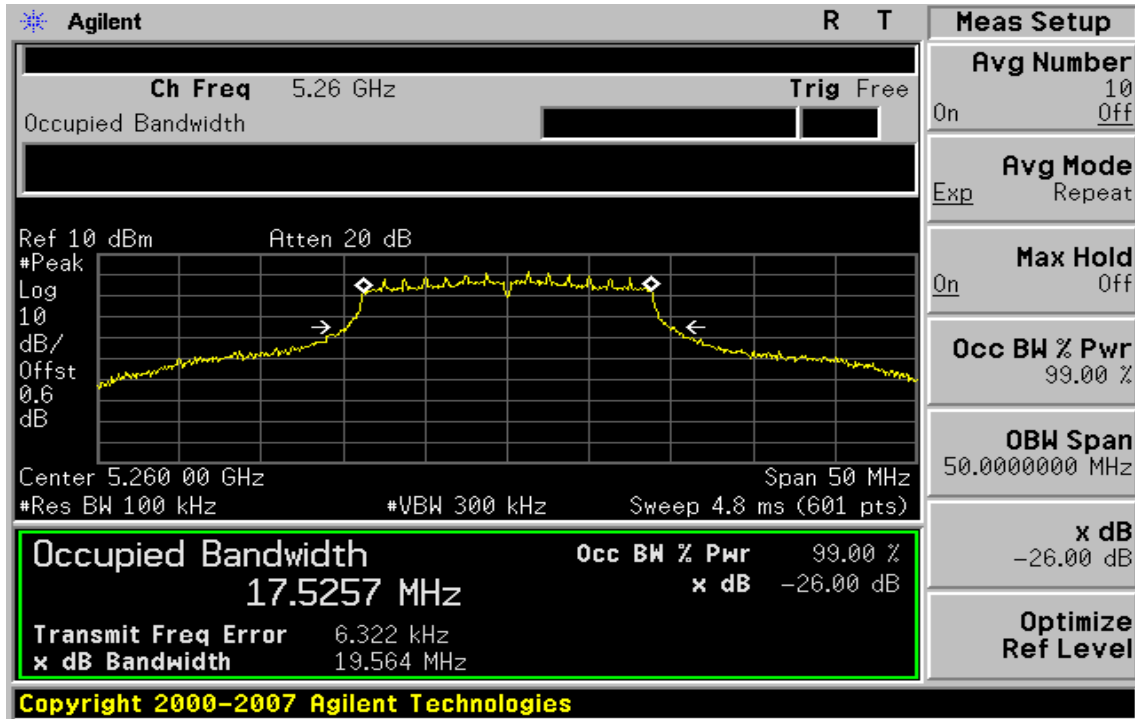
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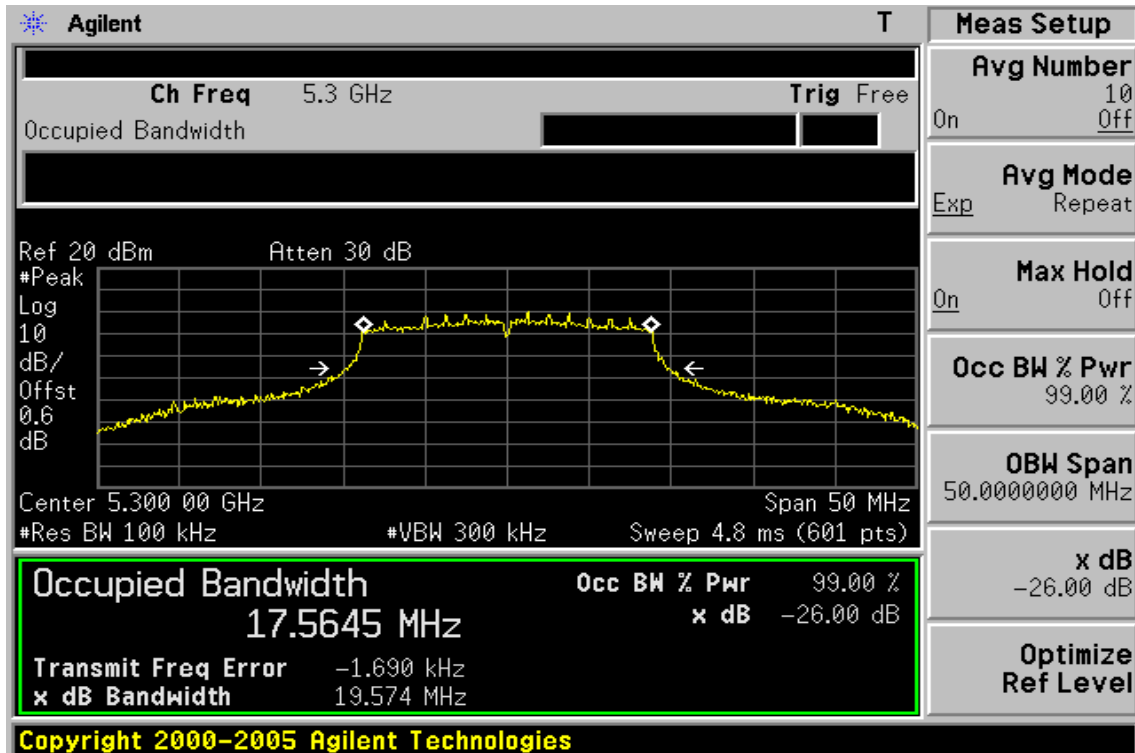
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UNII, HT 20, 5250~5350 MHz

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



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

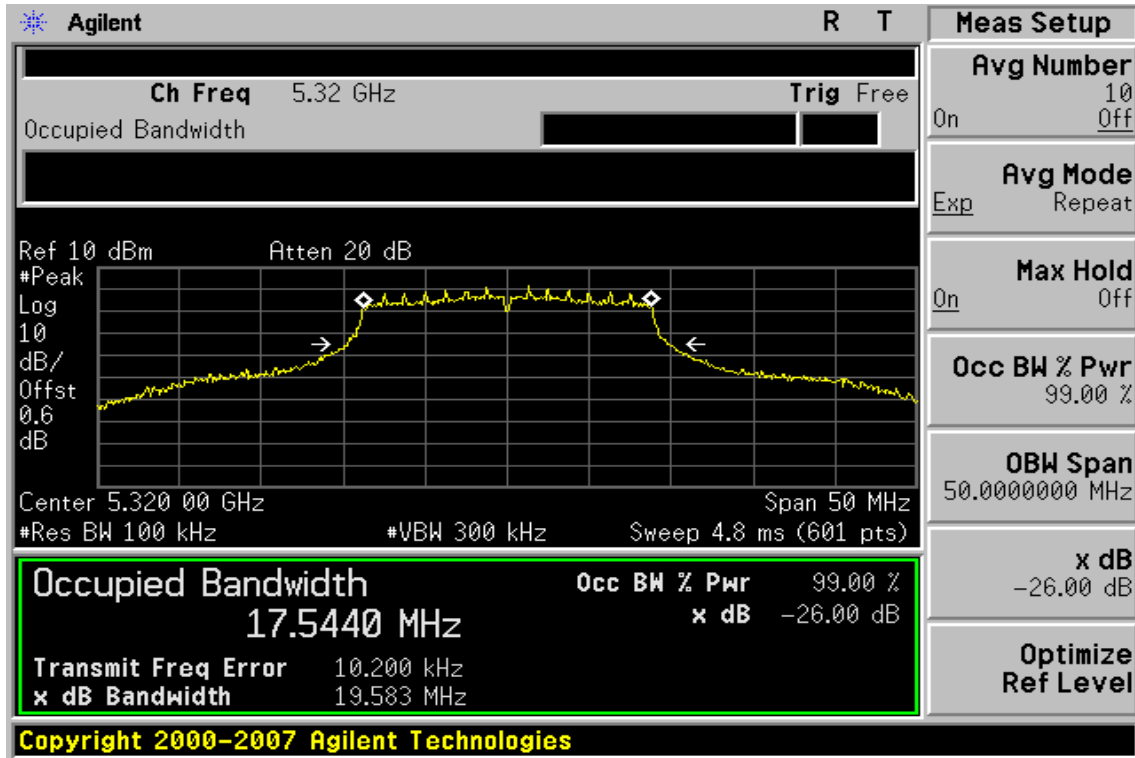


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26dB Band Width Test Data CH-High (5320 MHz)



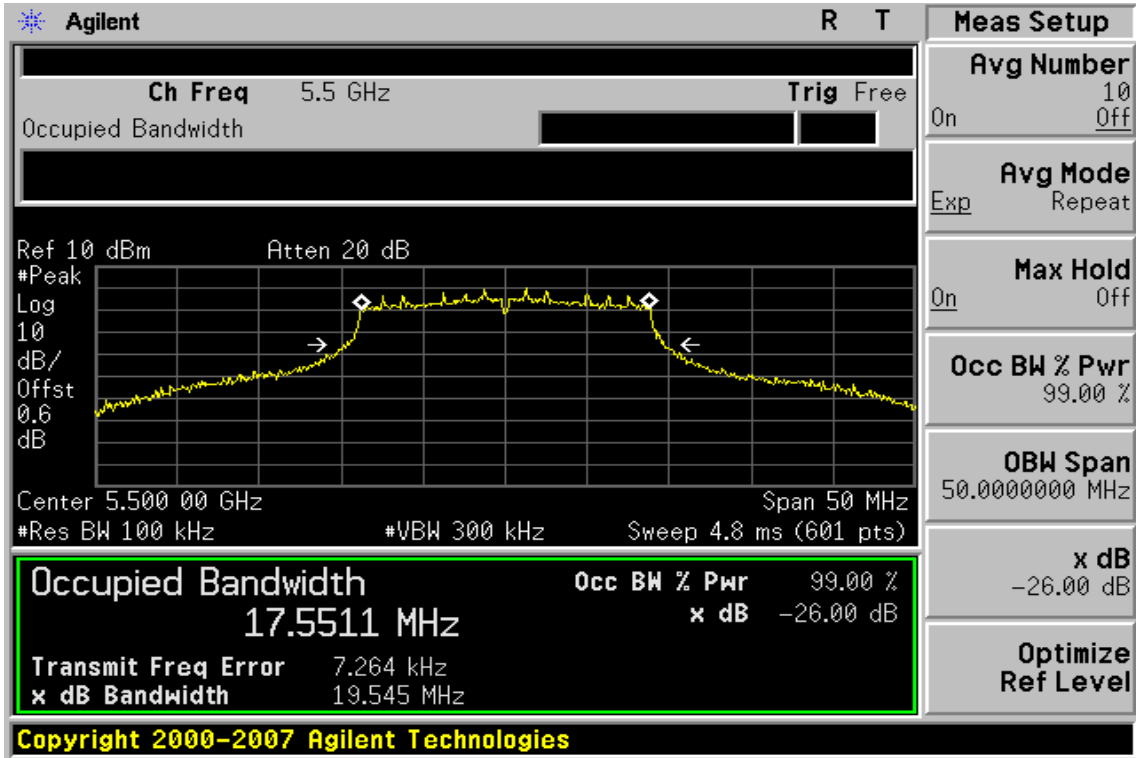
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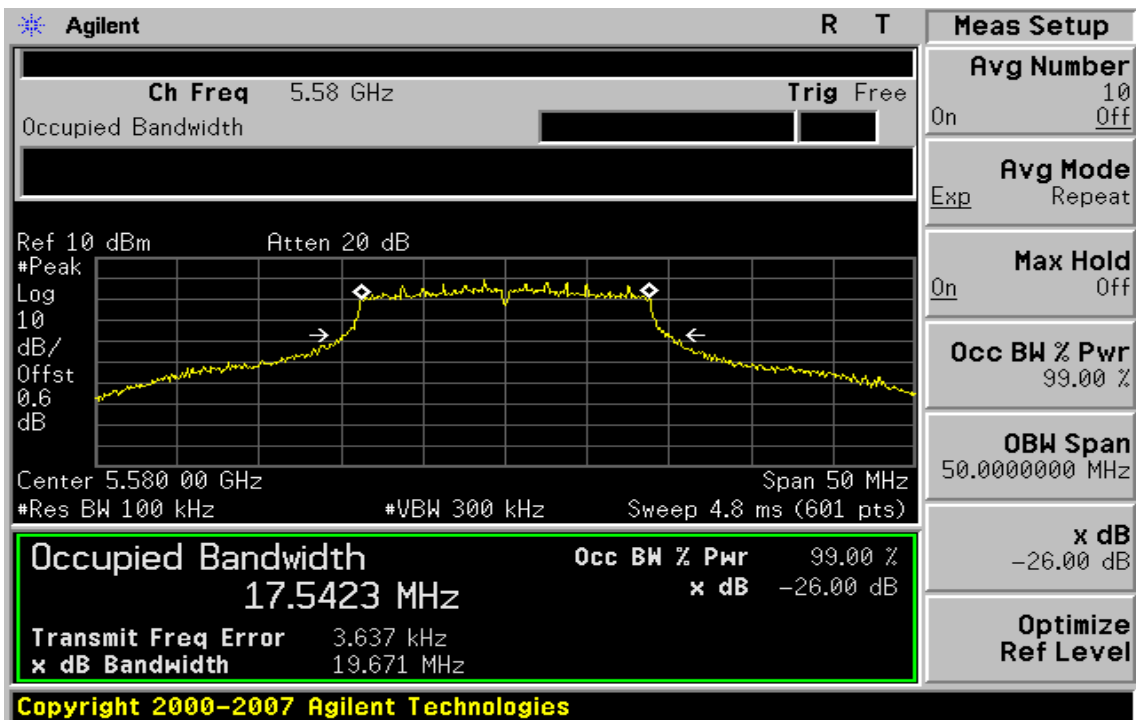
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UNII, HT 20, 5470~5725 MHz

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



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

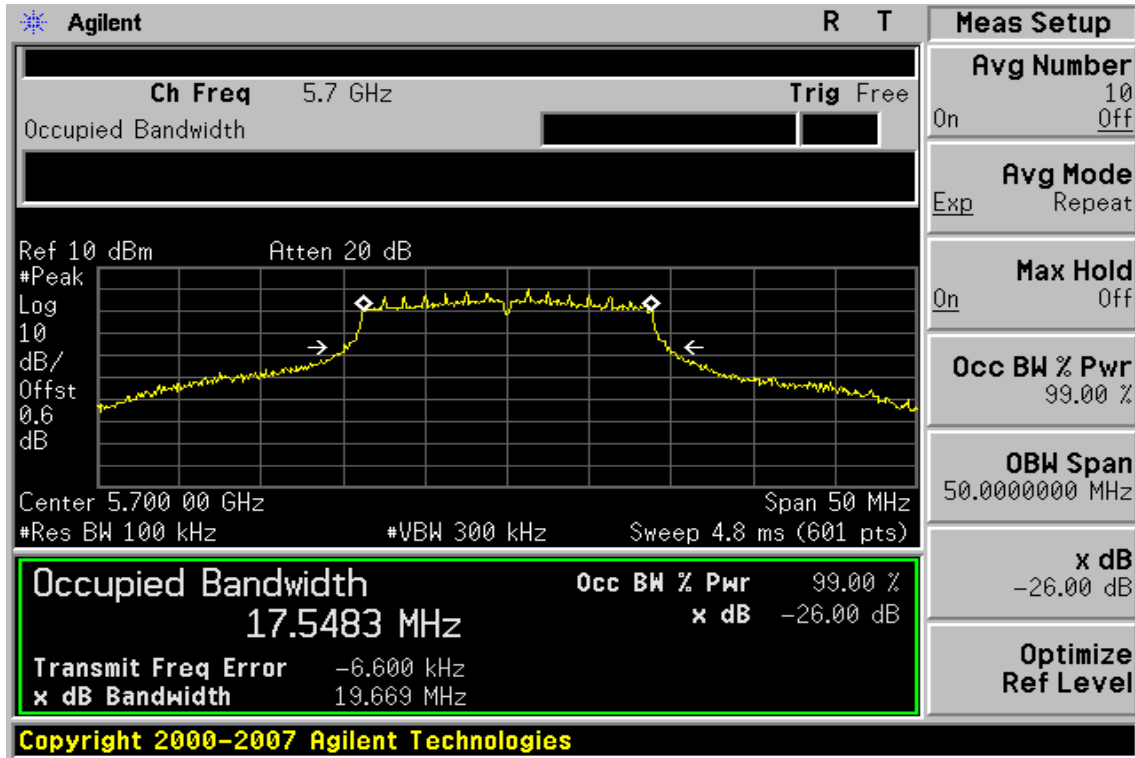


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26dB Band Width Test Data CH-High (5700 MHz)



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

7.2 Measurement Procedure

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

7.3 Measurement Equipment Used:

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

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7.4 Measurement Result

UNII

Cable loss = 0		Peak Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	12.86	12.79	12.76	12.65	12.50	12.34	12.26	12.15	50mWatt = 17 dBm
44	5220	13.18	13.11	13.09	13.00	12.94	12.81	12.78	12.64	50mWatt = 17 dBm
48	5240	13.15	13.08	13.04	12.95	12.89	12.74	12.62	12.51	50mWatt = 17 dBm
52	5260	13.22	12.14	12.11	12.00	11.86	11.74	11.66	11.54	250mWatt = 24 dBm
60	5300	12.83	12.74	12.70	12.69	12.63	12.50	12.44	12.33	250mWatt = 24 dBm
64	5320	12.99	12.93	12.89	12.70	12.55	12.39	12.31	12.20	250mWatt = 24 dBm
100	5500	12.76	12.70	12.66	12.57	12.41	12.25	12.16	12.04	1 Watt = 30 dBm
116	5580	12.44	12.37	12.33	12.22	12.08	11.94	11.85	11.73	1 Watt = 30 dBm
140	5700	12.55	12.48	12.45	12.36	12.20	12.06	11.97	11.87	1 Watt = 30 dBm

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UNII HT20

Cable loss = 0		Peak Power Output									
CH	Frequency (MHz)	Data Rate									Required Limit
		6.5	13	19.5	26	39	52	58.5	65	72	
36	5180	13.45	13.26	13.11	12.92	12.73	12.52	12.47	12.39	12.30	50mWatt= 17 dBm
44	5220	13.13	12.94	12.81	12.63	12.46	12.25	12.19	12.11	12.10	50mWatt= 17 dBm
48	5240	12.77	12.59	12.44	12.27	12.09	11.90	11.84	11.75	11.70	50mWatt= 17 dBm
52	5260	13.82	13.65	13.51	13.33	13.13	12.93	12.88	12.80	12.57	250mWatt = 24 dBm
60	5300	13.56	13.38	13.25	13.07	12.88	12.69	12.64	12.56	12.50	250mWatt = 24 dBm
64	5320	13.50	13.31	13.15	12.96	12.77	12.58	12.52	12.43	12.40	250mWatt = 24 dBm
100	5500	12.56	12.39	12.24	12.05	11.86	11.65	11.60	11.51	11.78	1 Watt = 30 dBm
116	5580	12.44	12.25	12.11	11.94	11.75	11.54	11.49	11.42	11.37	1 Watt = 30 dBm
140	5700	12.63	12.46	12.30	12.12	11.93	11.72	11.68	11.60	11.50	1 Watt = 30 dBm

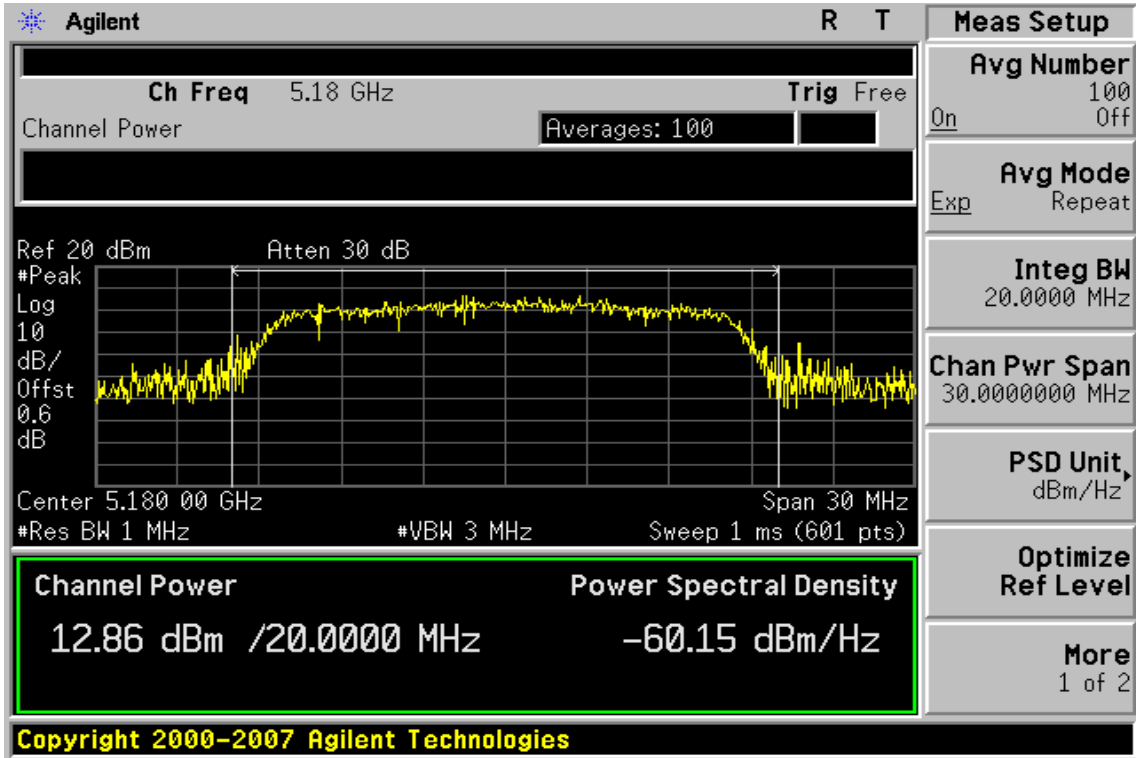
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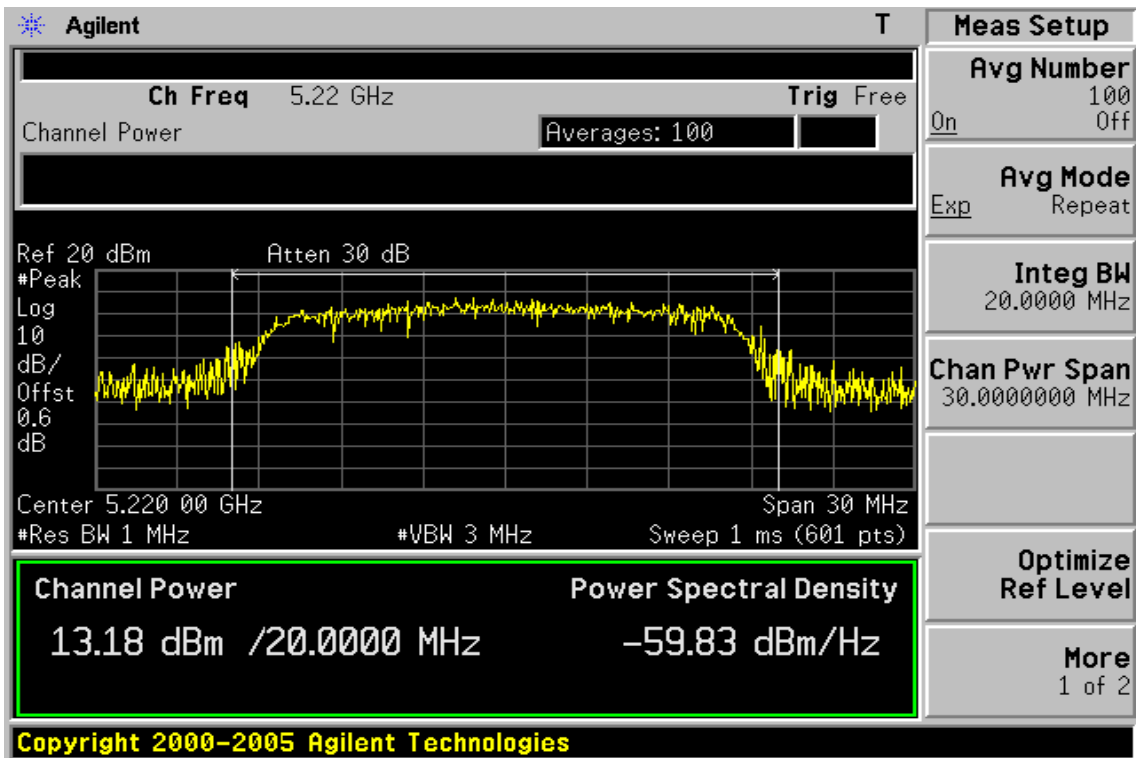
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UNII, 5150~5250 MHz

Peak Power Output Data Plot (CH Low 5180 MHz)



Peak Power Output Data Plot (CH Low 5220 MHz)

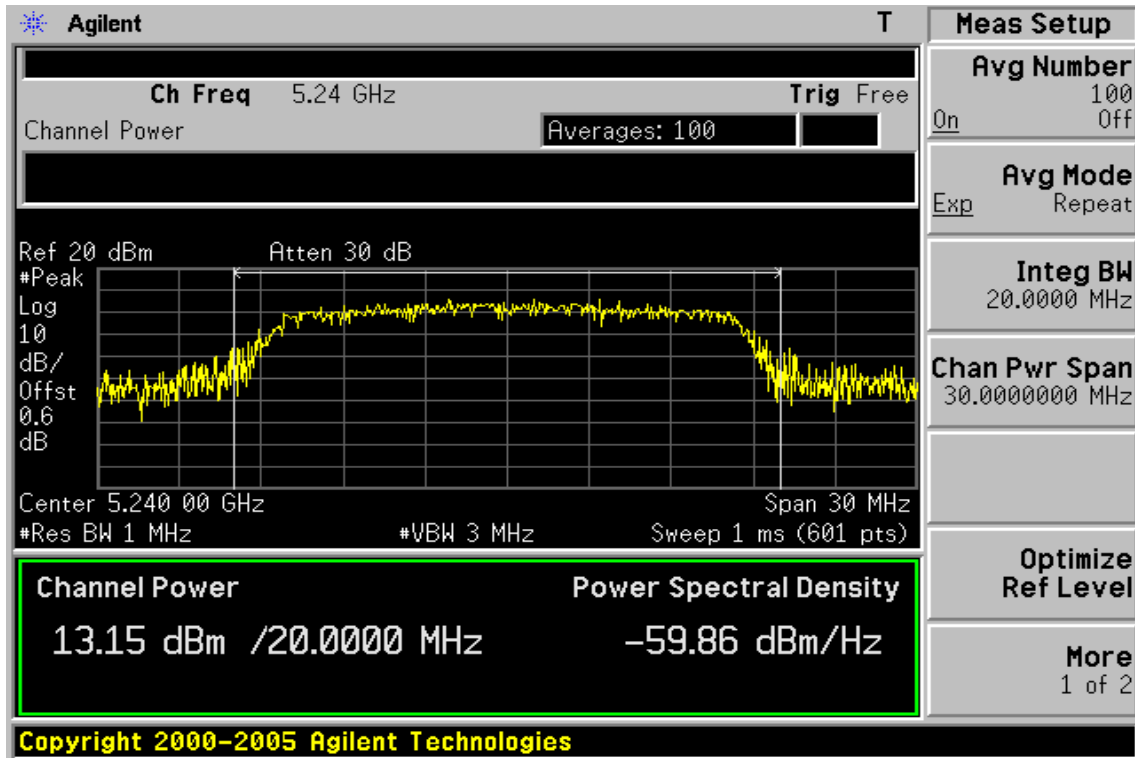


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Peak Power Output Data Plot (CH Low 5240 MHz)



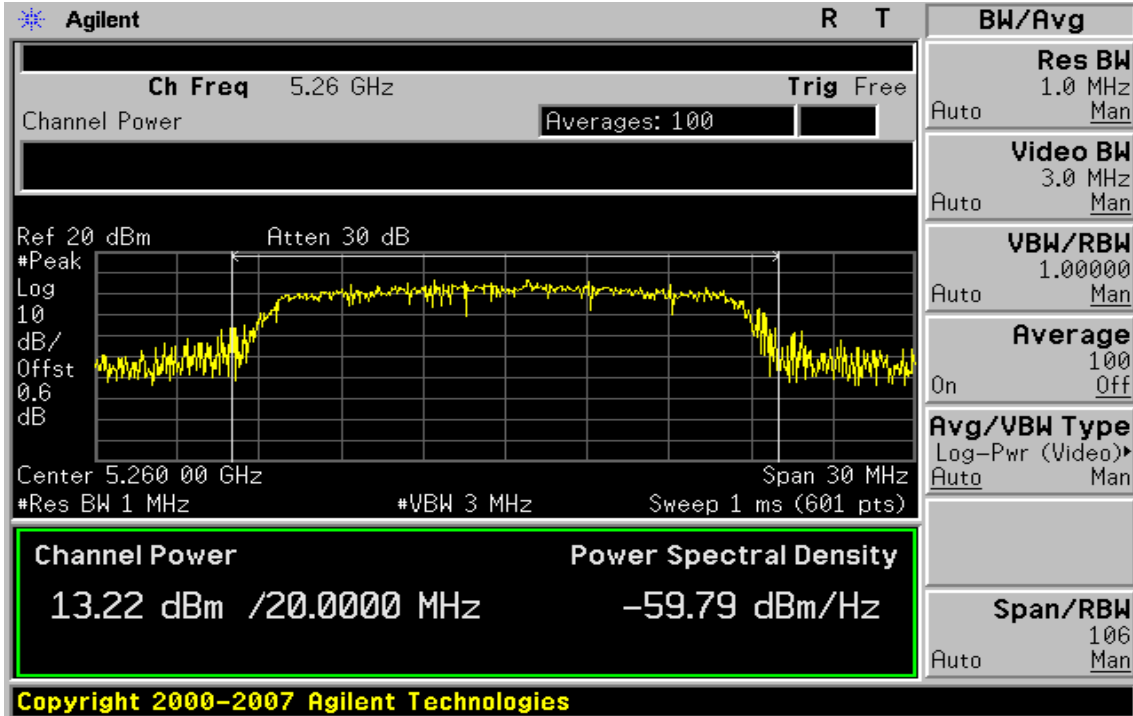
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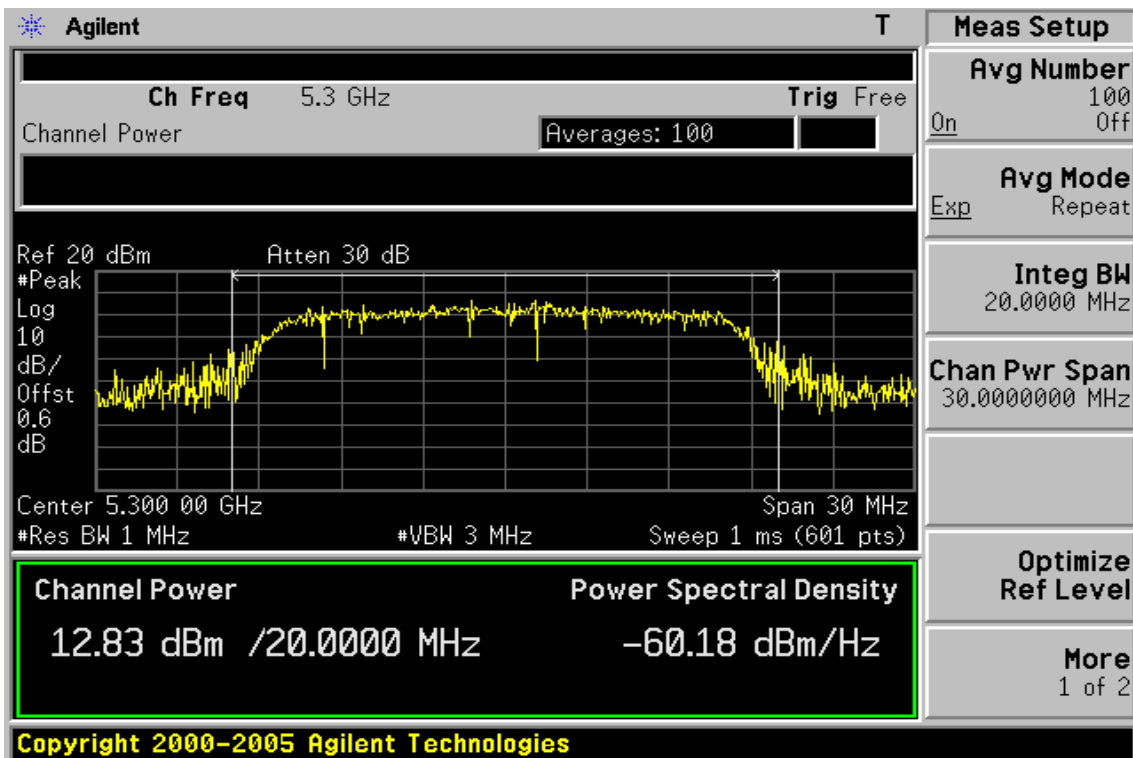
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UNII, 5250~5350 MHz

Peak Power Output Data Plot (CH Mid 5260 MHz)



Peak Power Output Data Plot (CH Low 5300 MHz)

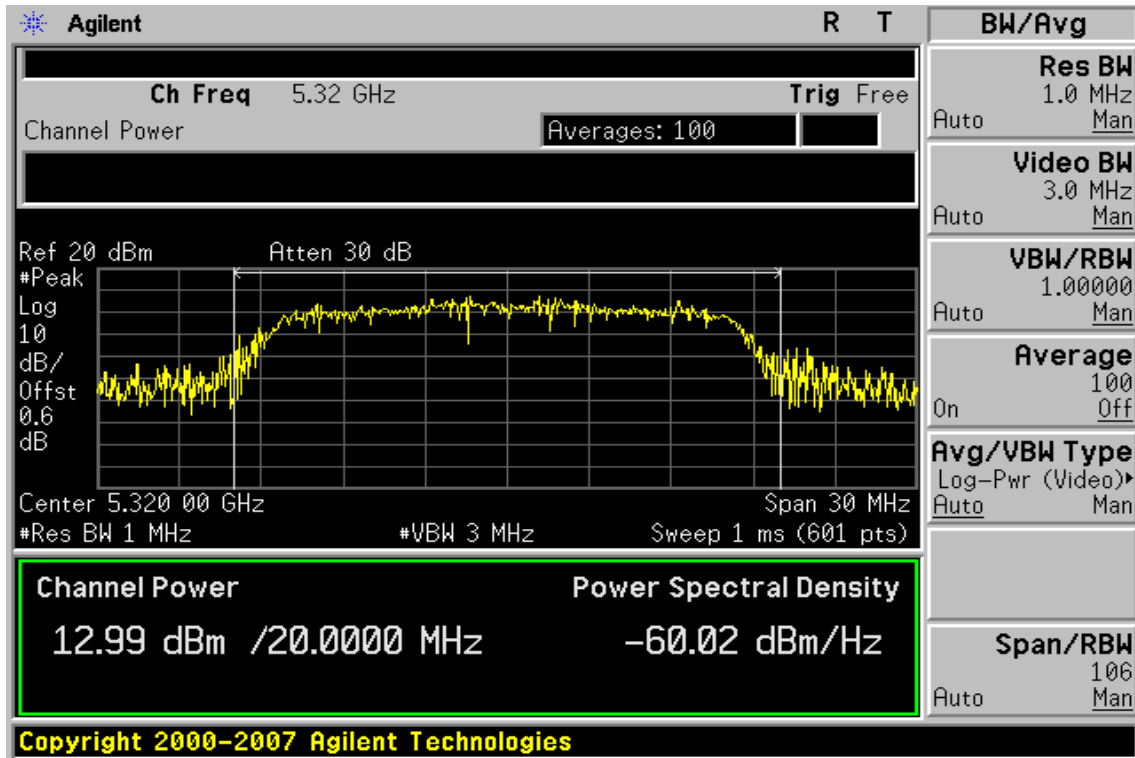


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Peak Power Output Data Plot (CH High 5320 MHz)



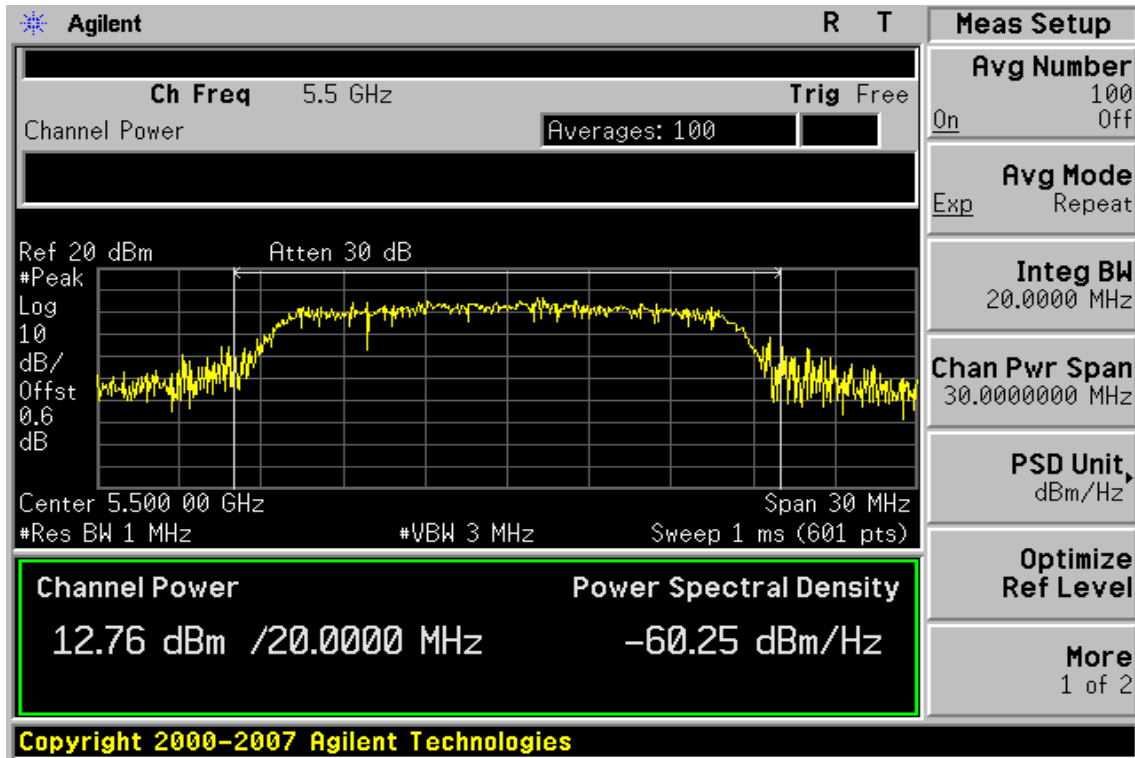
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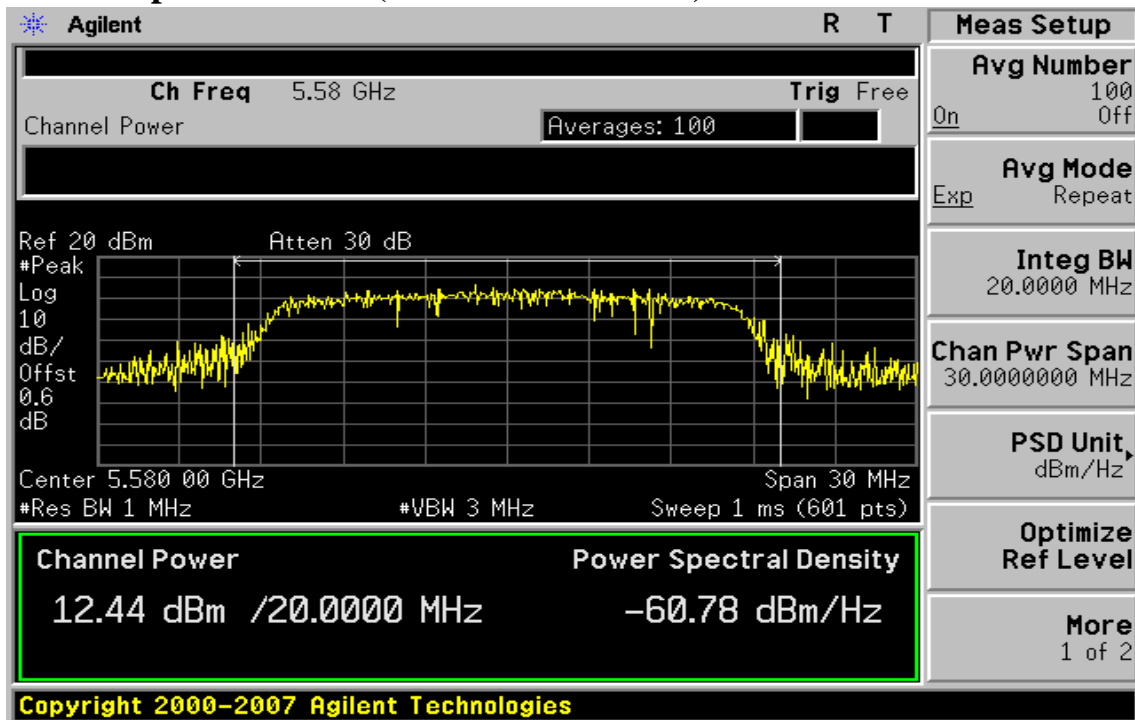
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UNII, 5470~5725 MHz

Peak Power Output Data Plot (CH Low 5500 MHz)



Peak Power Output Data Plot (CH Mid 5580 MHz)

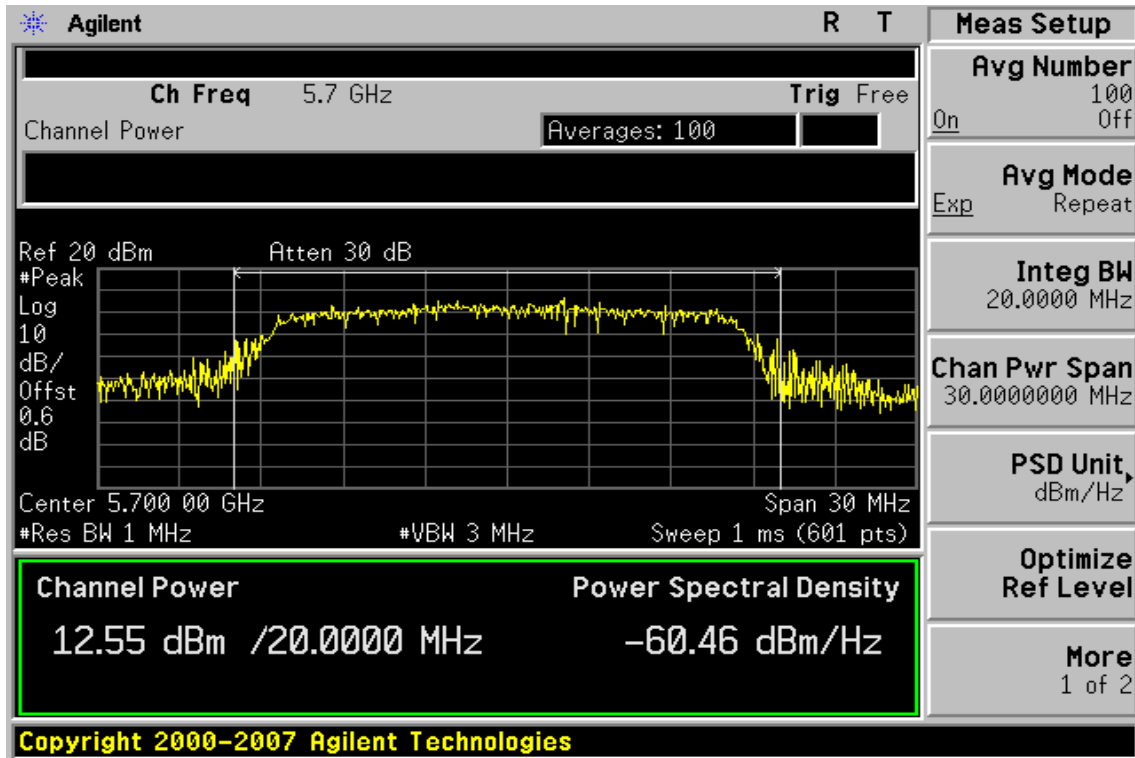


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Peak Power Output Data Plot (CH High 5700 MHz)



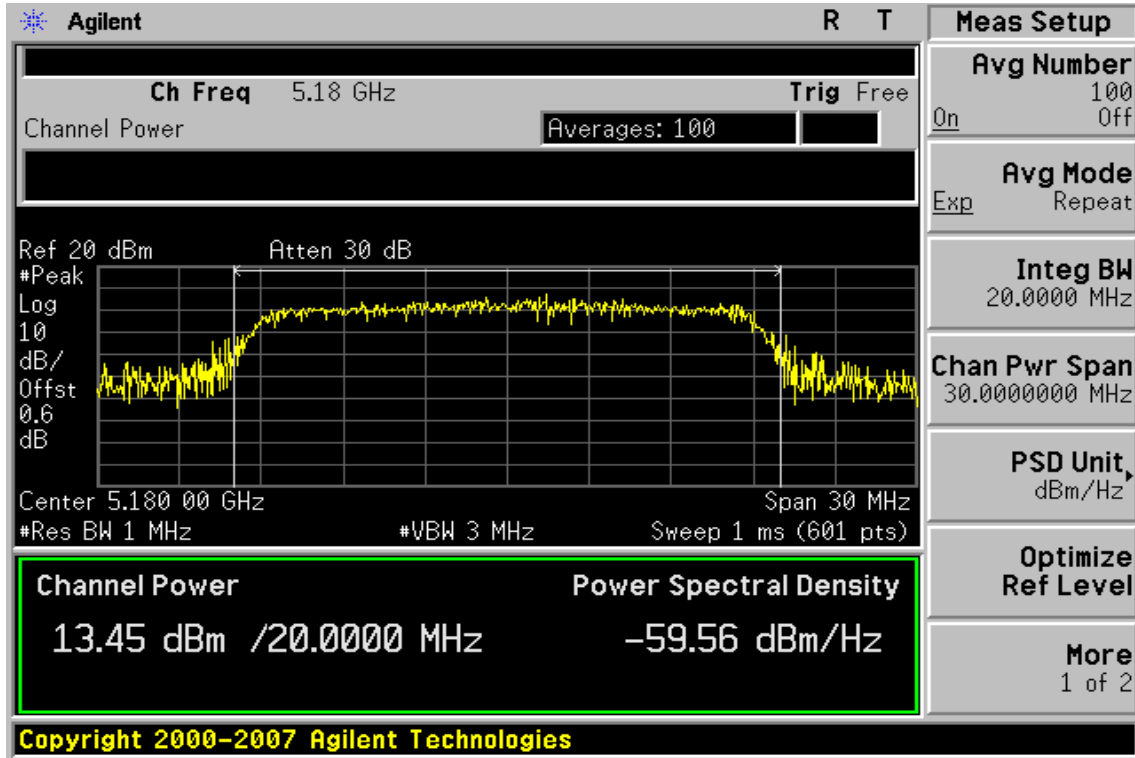
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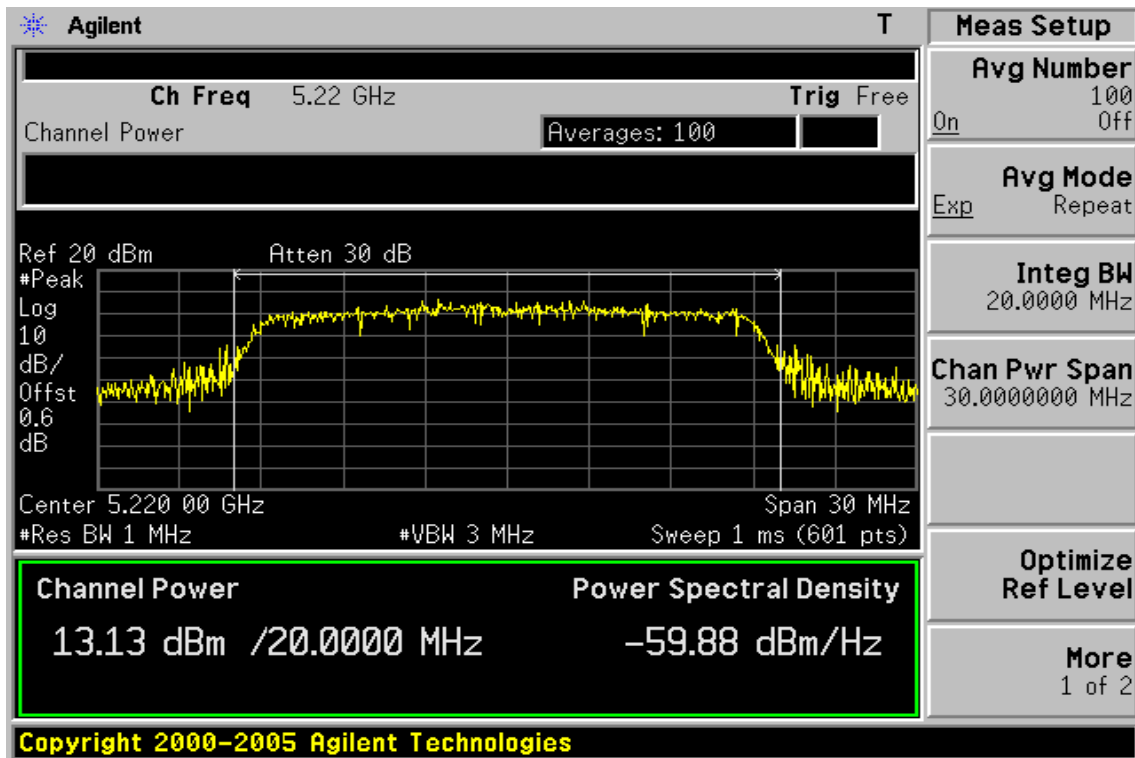
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UNII HT20, 5150~5250 MHz

Peak Power Output Data Plot (CH Low 5180 MHz)



Peak Power Output Data Plot (CH Low 5220 MHz)

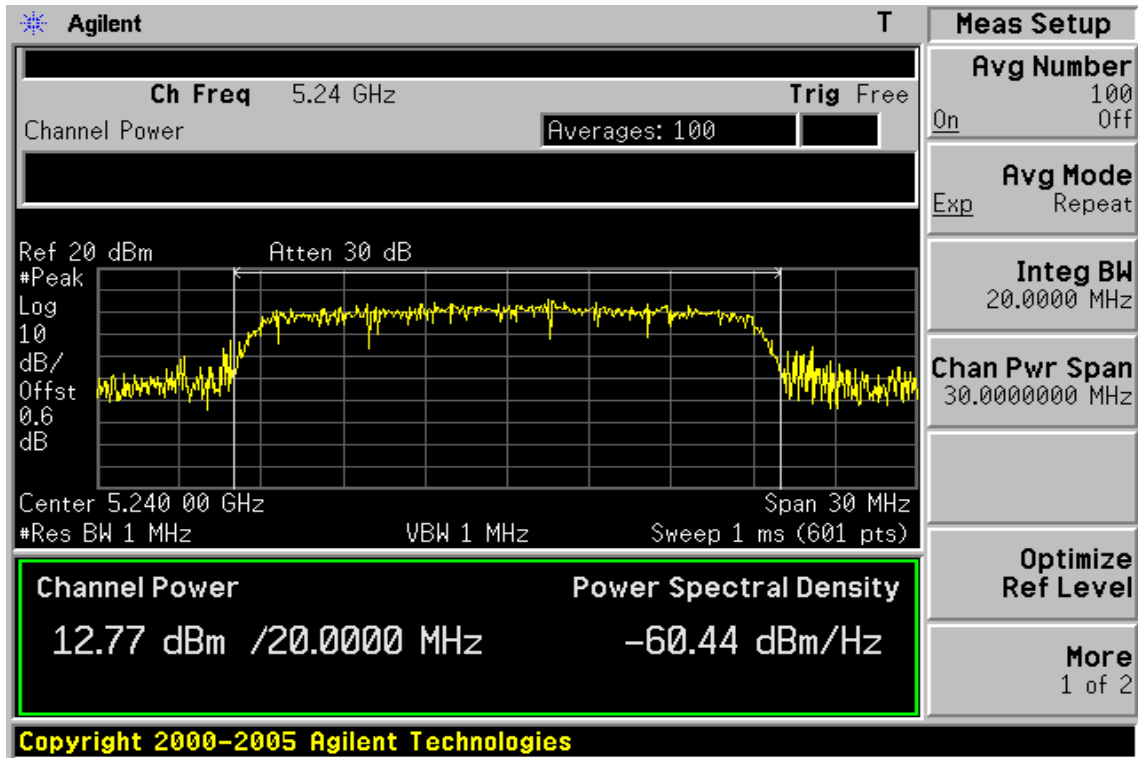


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Peak Power Output Data Plot (CH Low 5240 MHz)



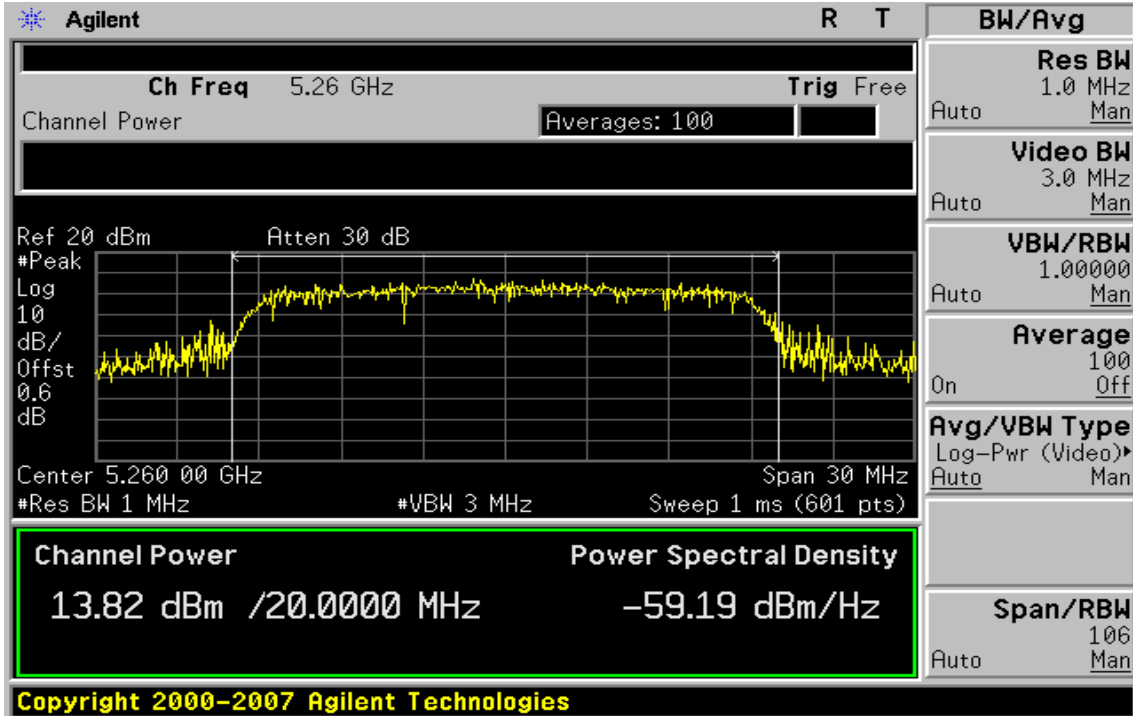
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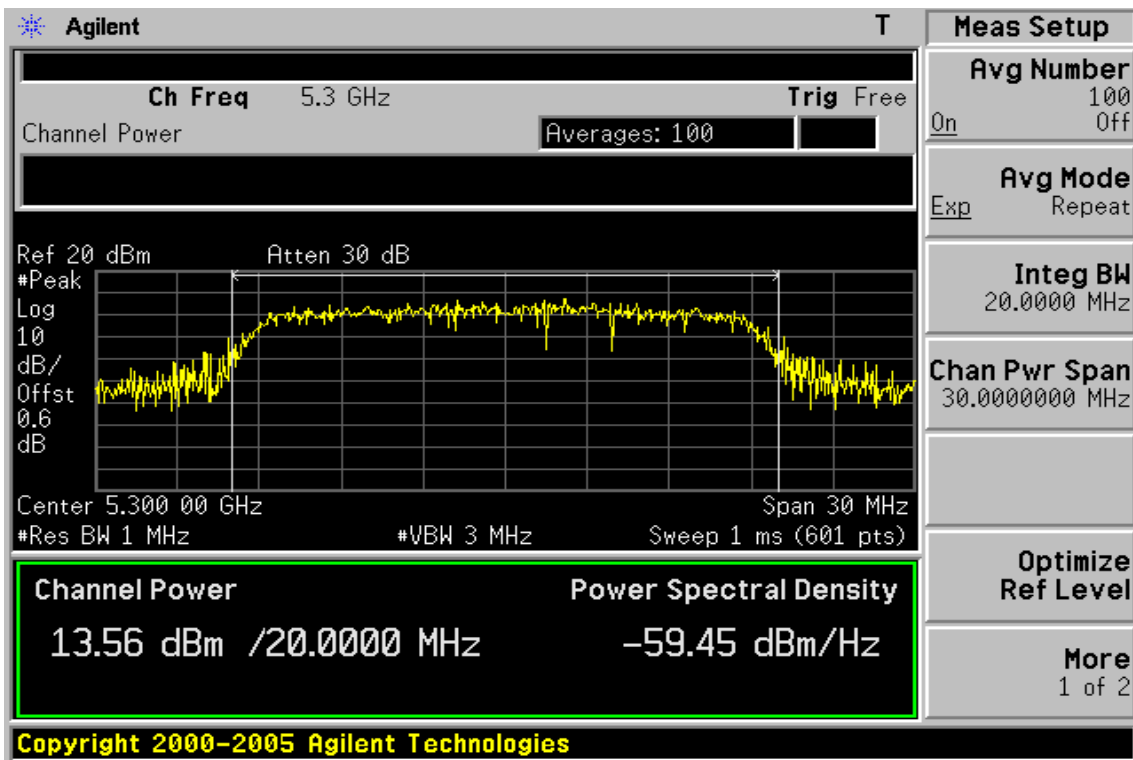
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UNII HT20, 5250~5350 MHz

Peak Power Output Data Plot (CH Low 5260 MHz)



Peak Power Output Data Plot (CH Mid 5300 MHz)

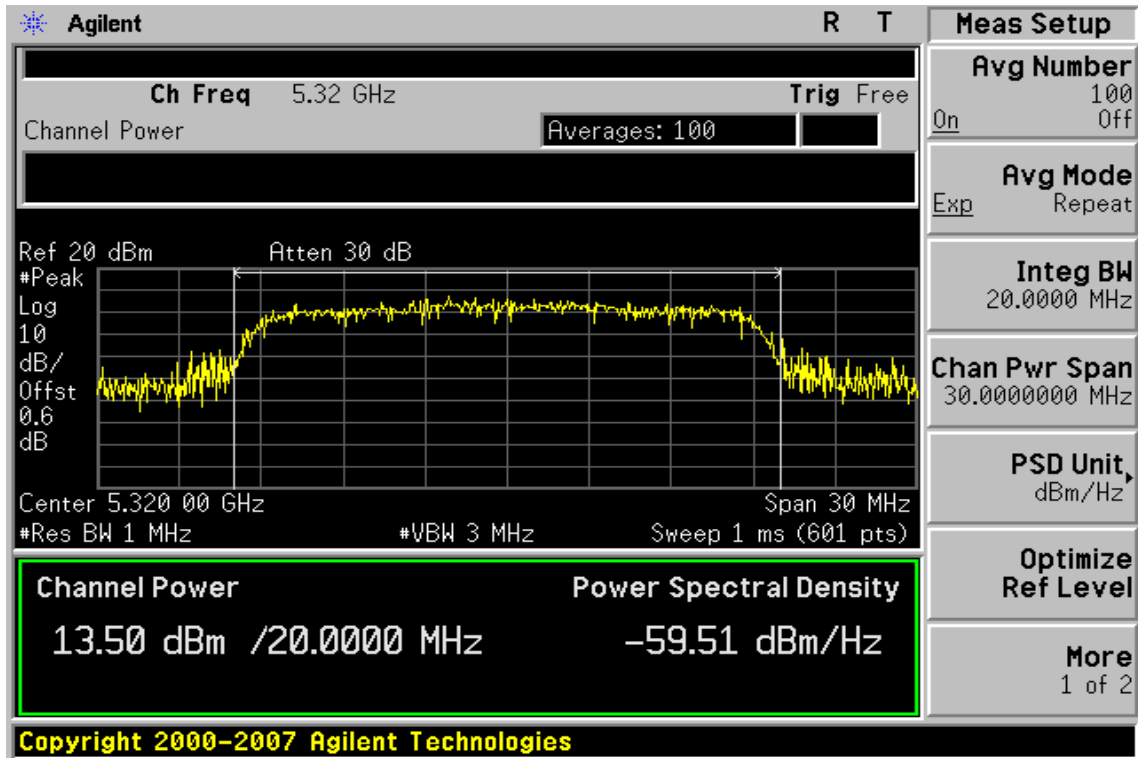


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Peak Power Output Data Plot (CH High 5320 MHz)



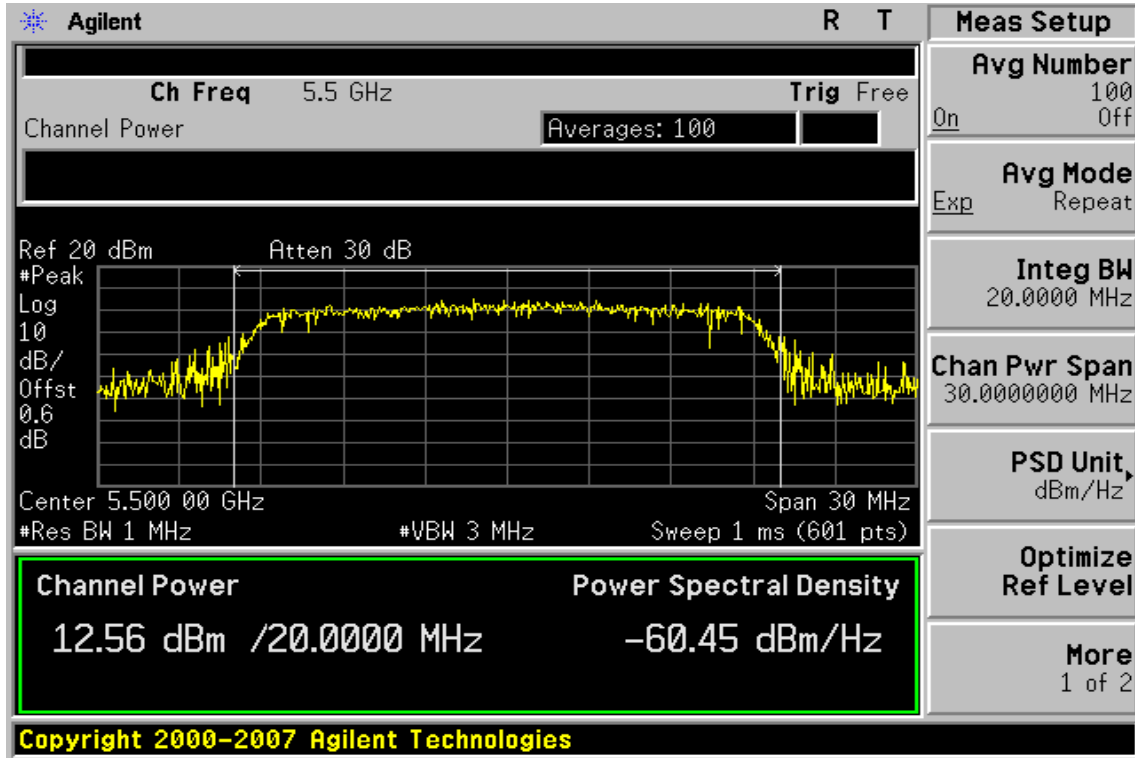
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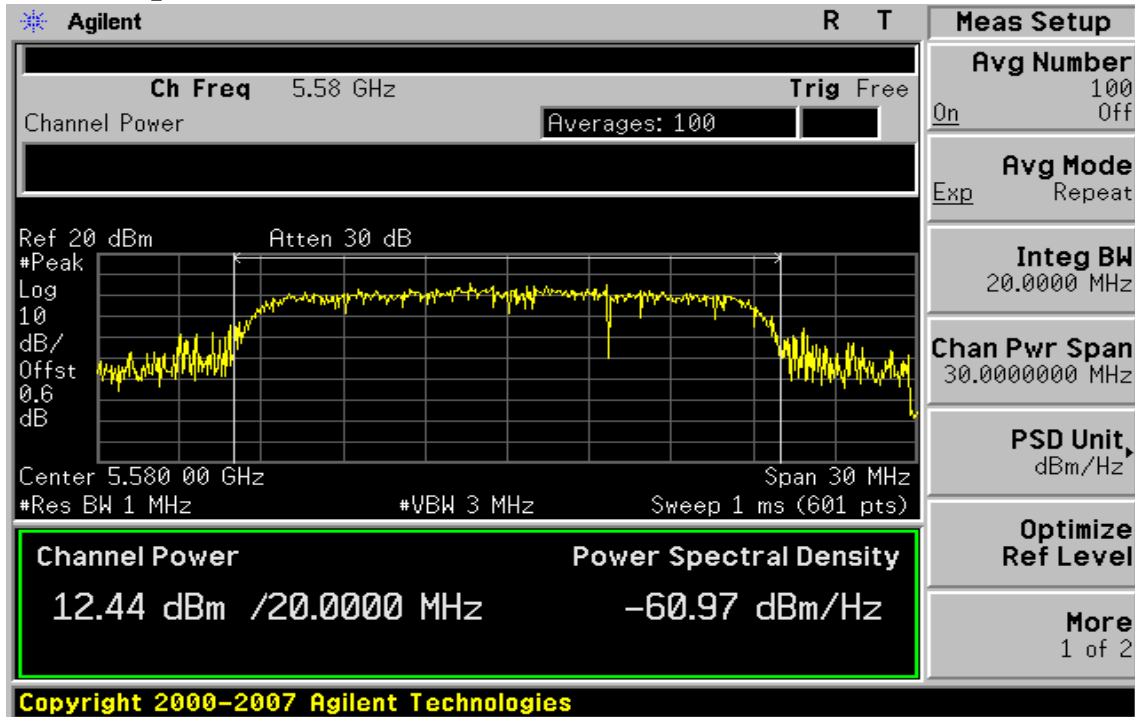
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UNII HT20, 5470~5725 MHz

Peak Power Output Data Plot (CH Low 5500 MHz)



Peak Power Output Data Plot (CH Mid 5580 MHz)

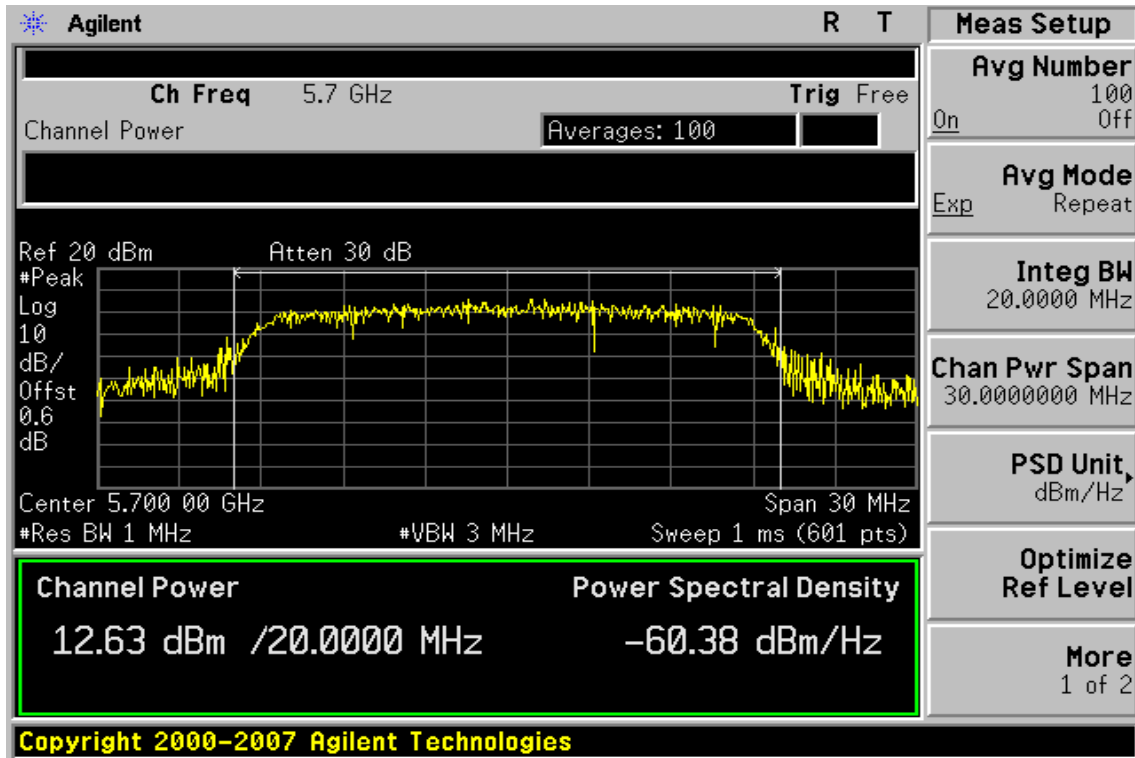


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Peak Power Output Data Plot (CH High 5700 MHz)



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8. PEAK POWER SPECTRAL DENSITY

8.1 Standard Applicable

According to §15.407(a)

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

8.2 Measurement Procedure

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

8.3 Measurement Equipment Used:

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

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8.4 Measurement Result

UNII, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-4.31	4.00	-8.31
5220	-5.37	4.00	-9.37
5240	-4.81	4.00	-8.81

UNII, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-5.05	11.00	-16.05
5300	-5.12	11.00	-16.12
5320	-4.70	11.00	-15.70

UNII, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-5.71	11.00	-16.71
5580	-6.25	11.00	-17.25
5700	-5.87	11.00	-16.87

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UNII HT20, 5150~5250 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-6.84	4.00	-10.84
5220	-5.04	4.00	-9.04
5240	-4.65	4.00	-8.65

UNII HT20, 5250~5350 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5260	-4.40	11.00	-15.40
5300	-6.60	11.00	-17.60
5320	-5.40	11.00	-16.40

UNII HT20, 5470~5725 MHz

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5500	-6.01	11.00	-17.01
5580	-6.42	11.00	-17.42
5700	-5.62	11.00	-16.62

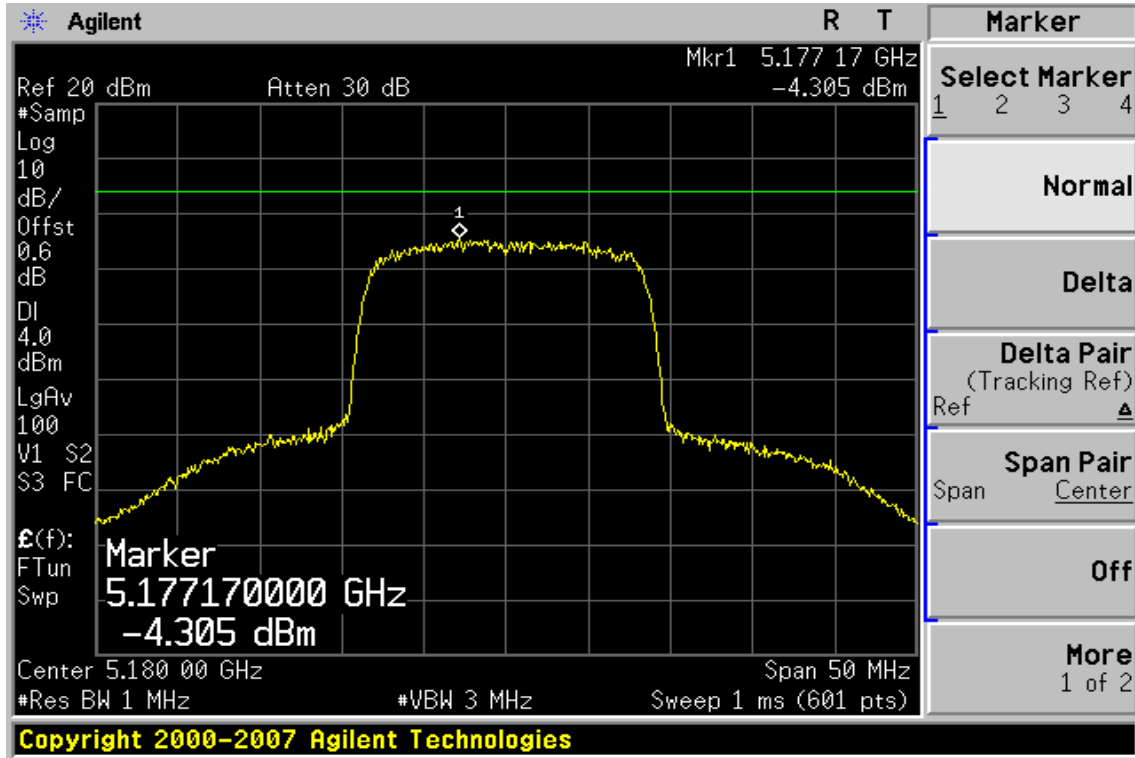
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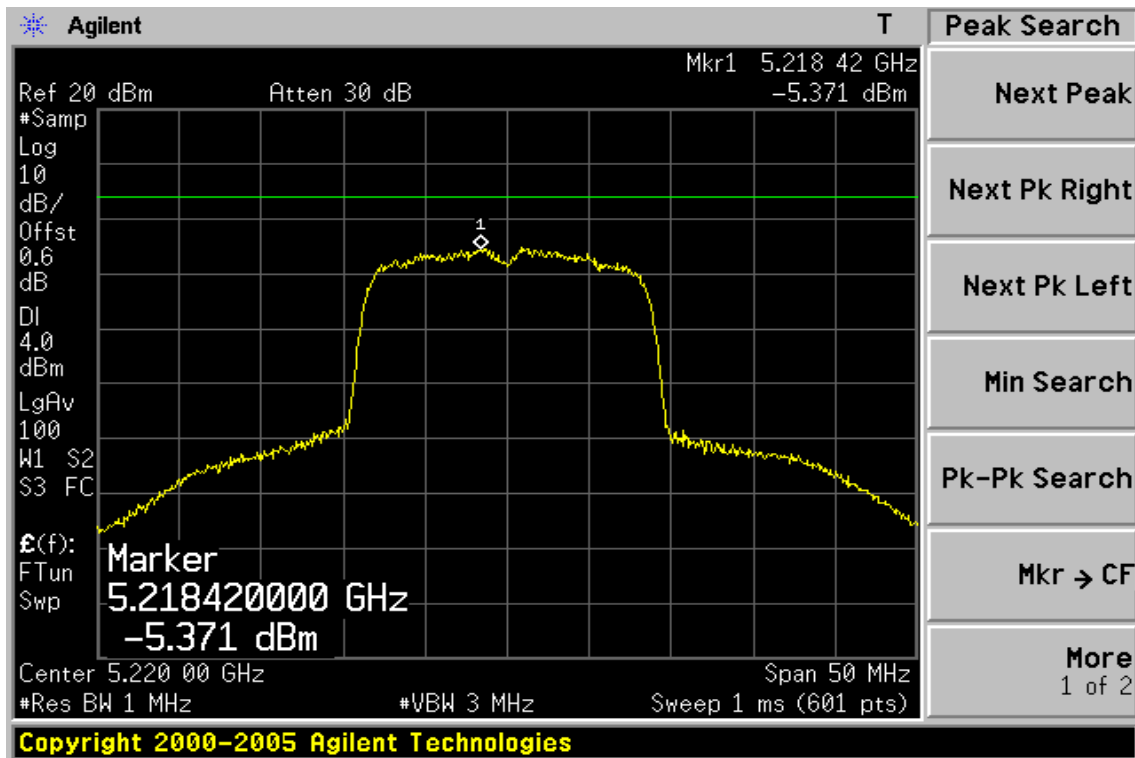
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UNII, 5150~5250 MHz

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



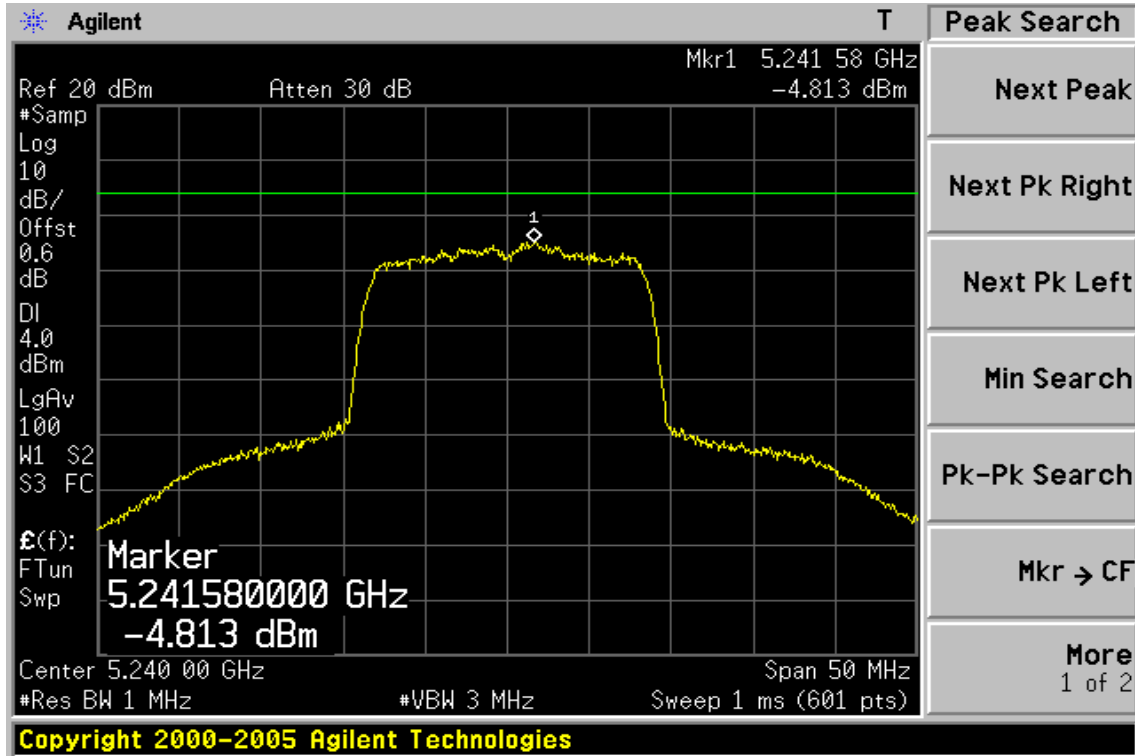
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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



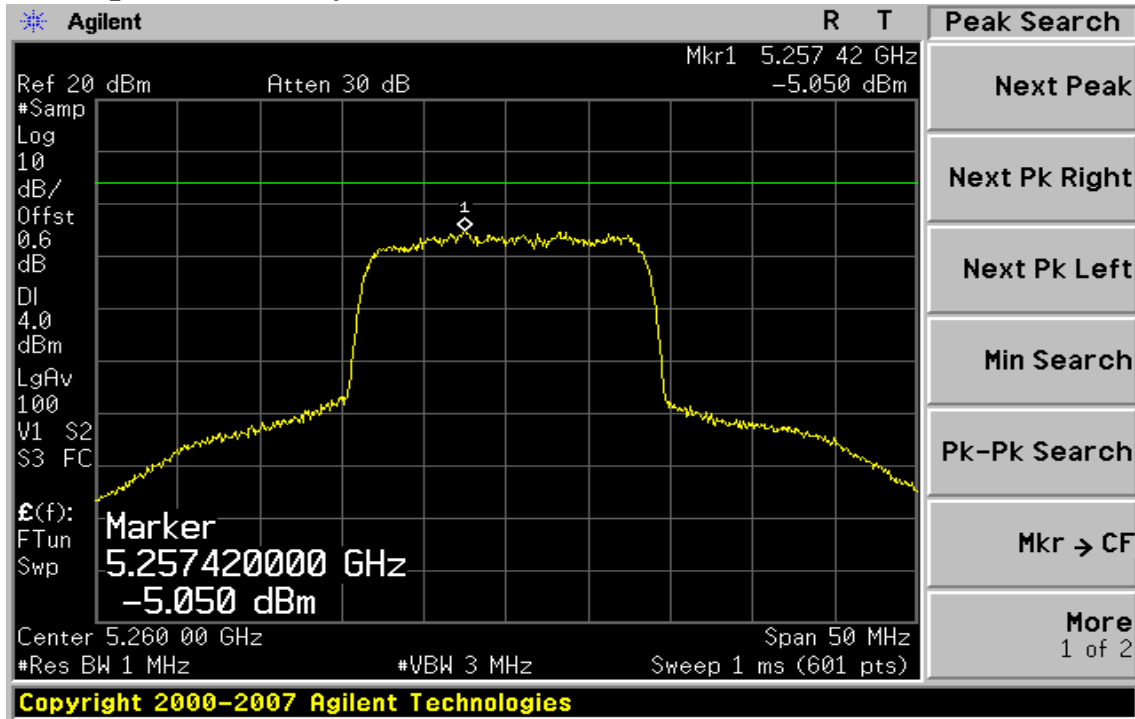
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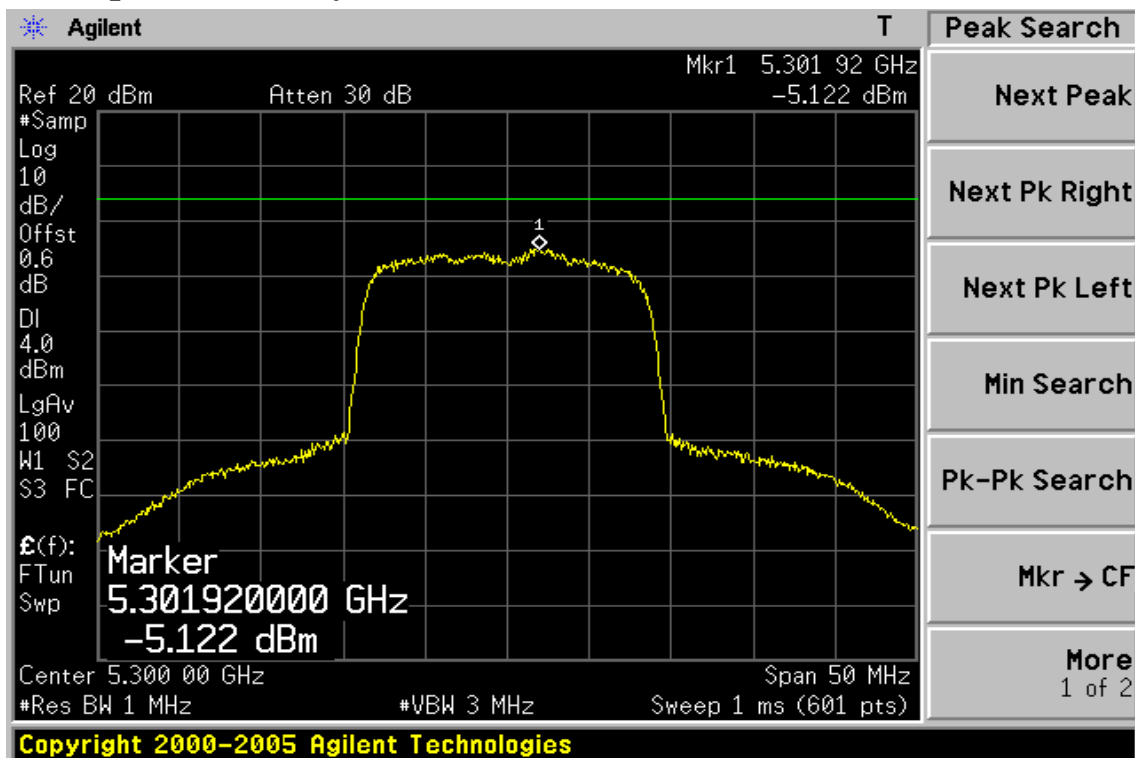
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UNII, 5250~5350 MHz

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



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

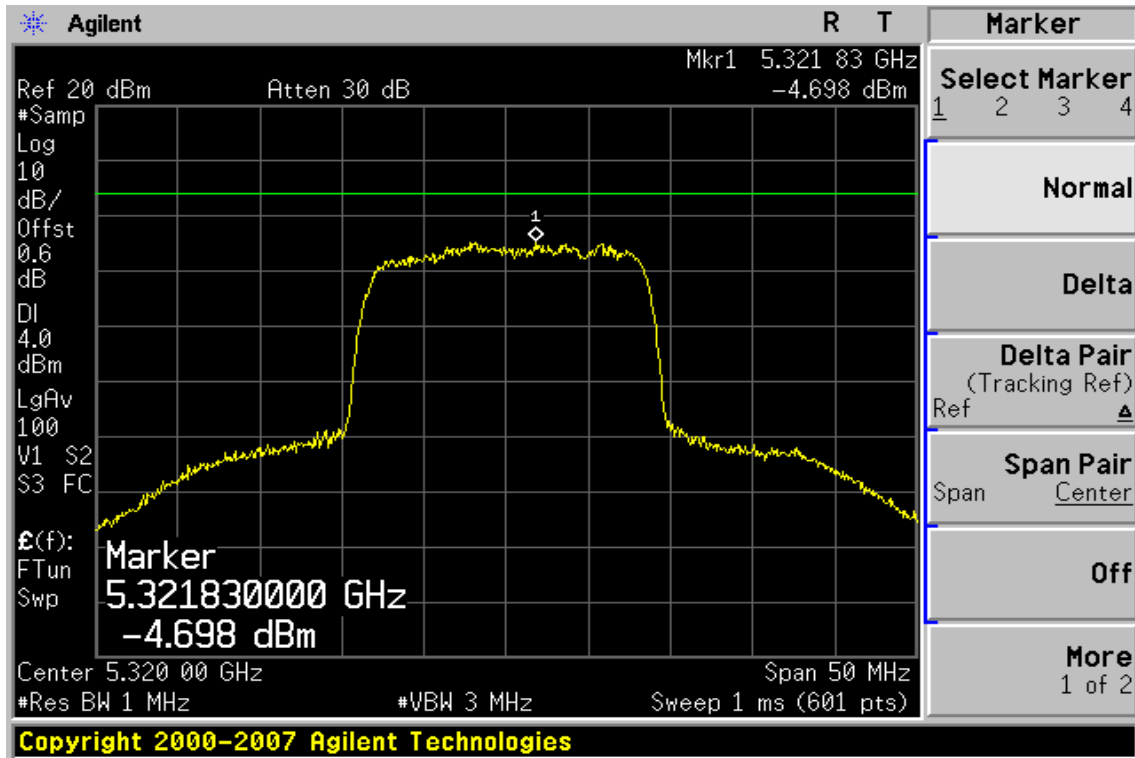


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



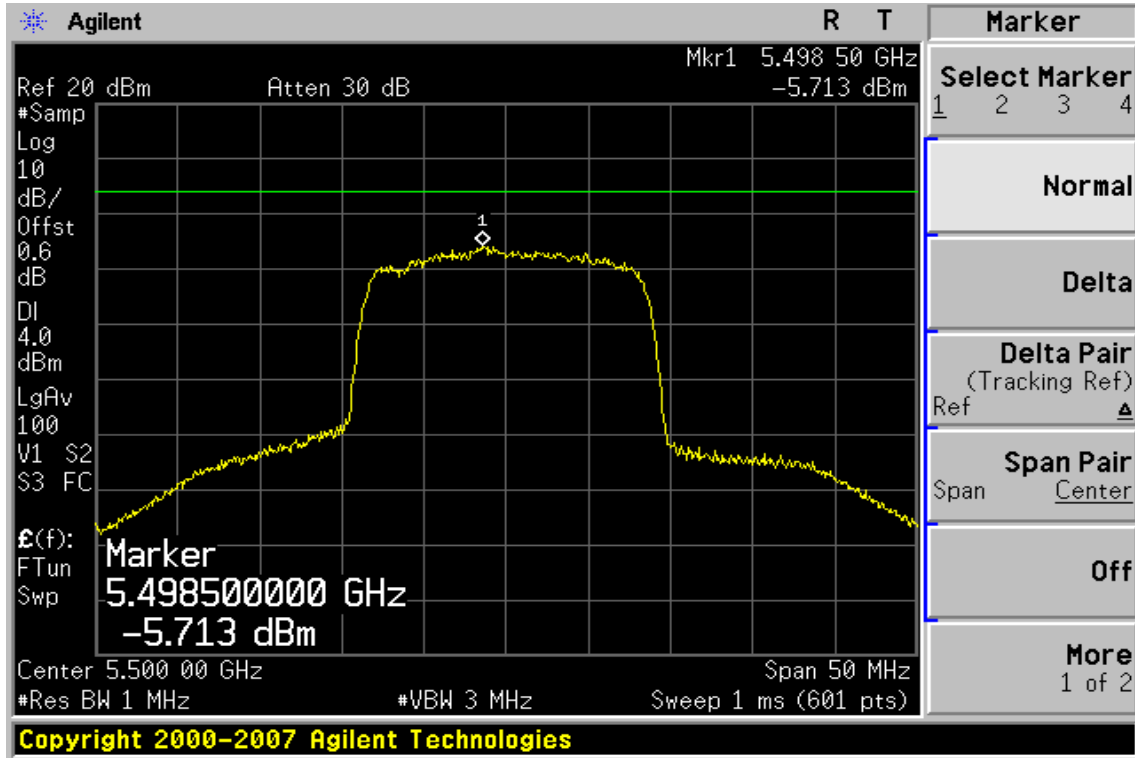
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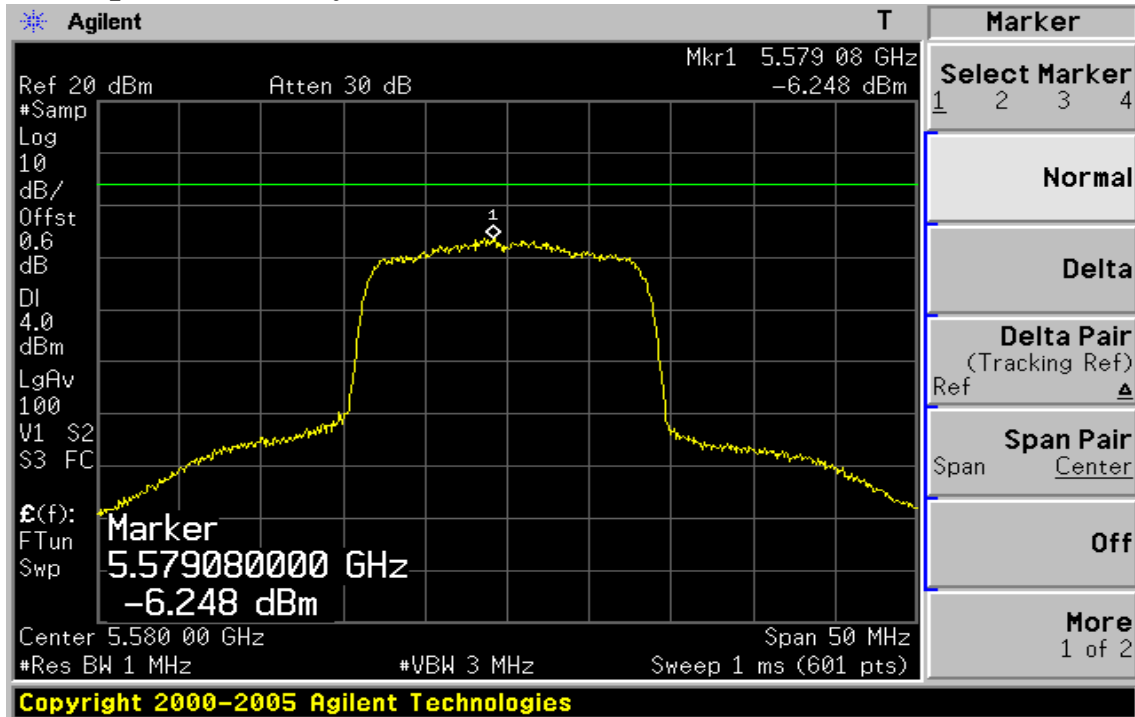
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UNII, 5470~5725 MHz

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



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

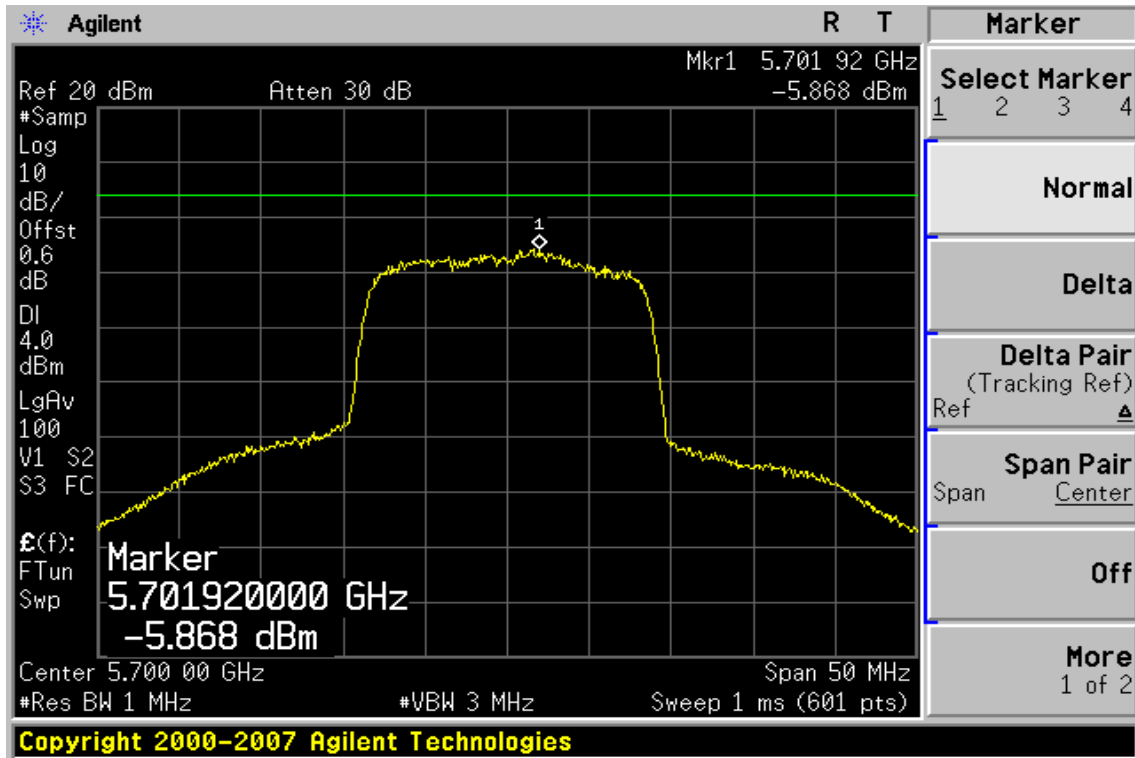


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



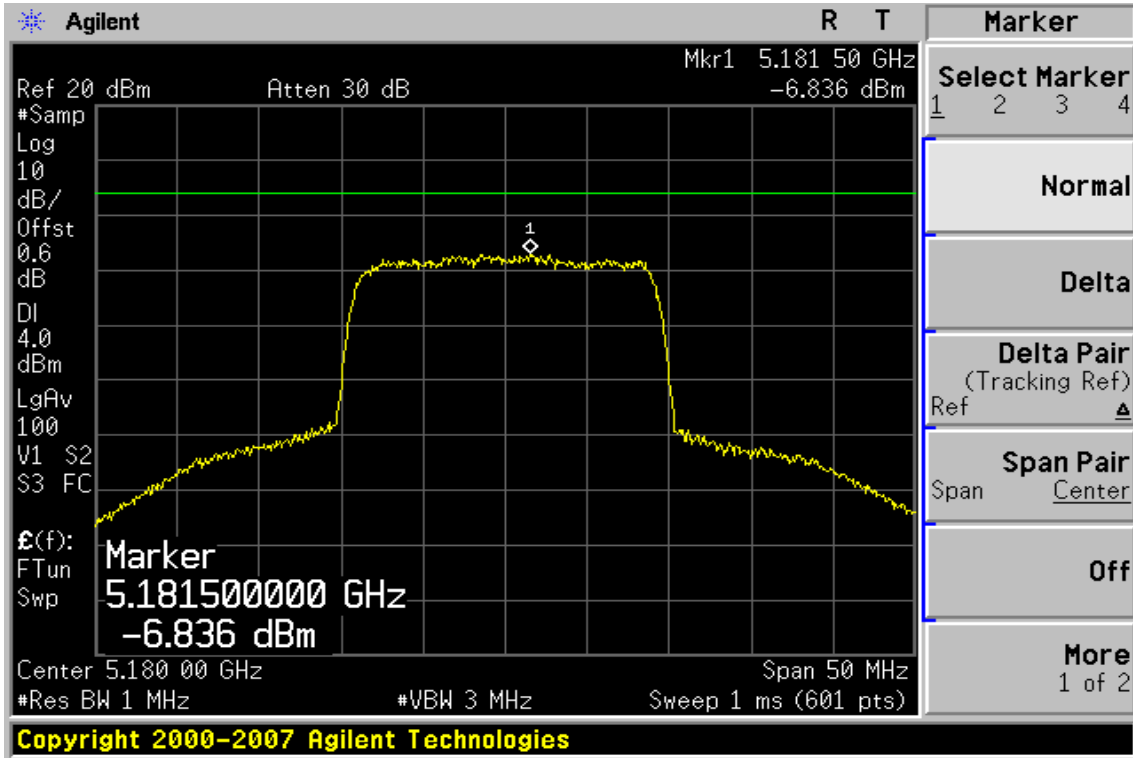
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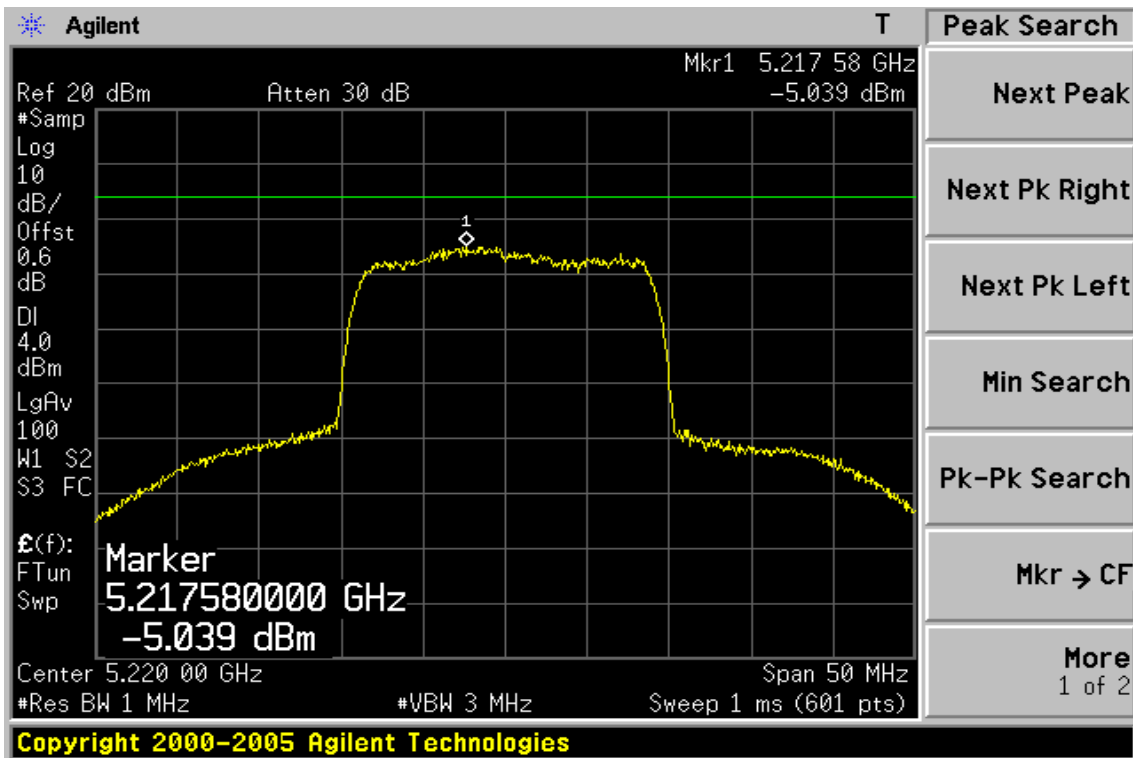
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UNII HT20, 5150~5250 MHz

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



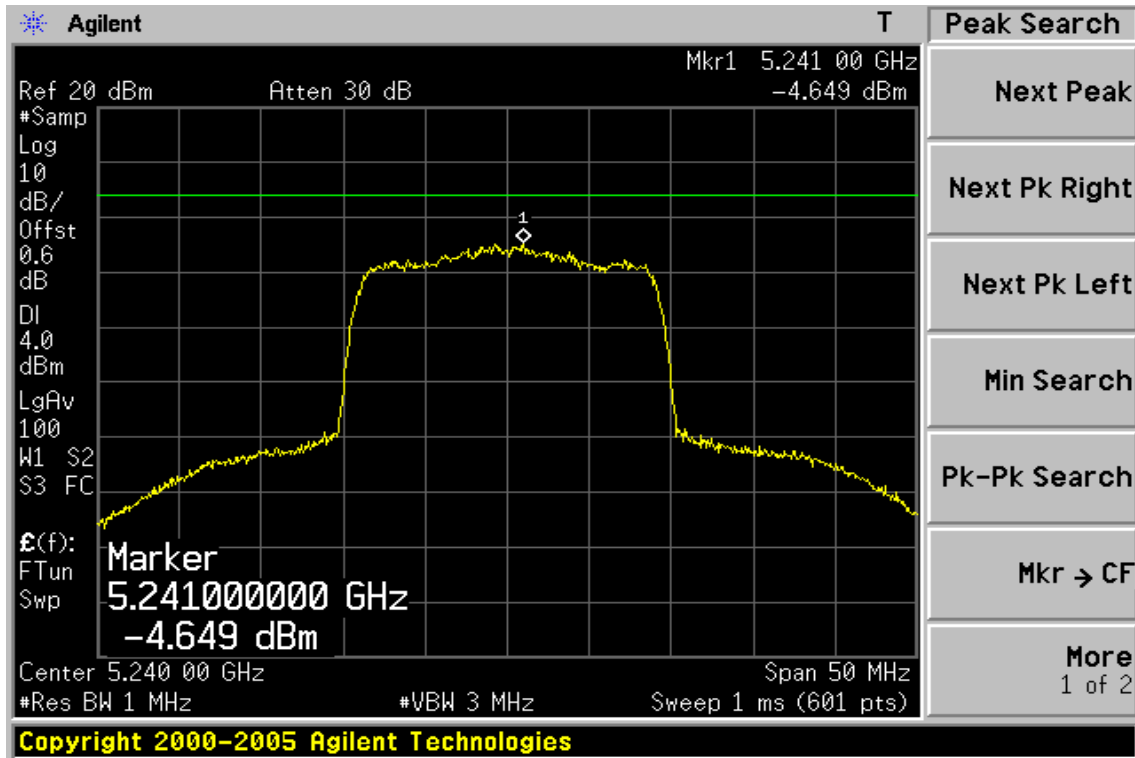
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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



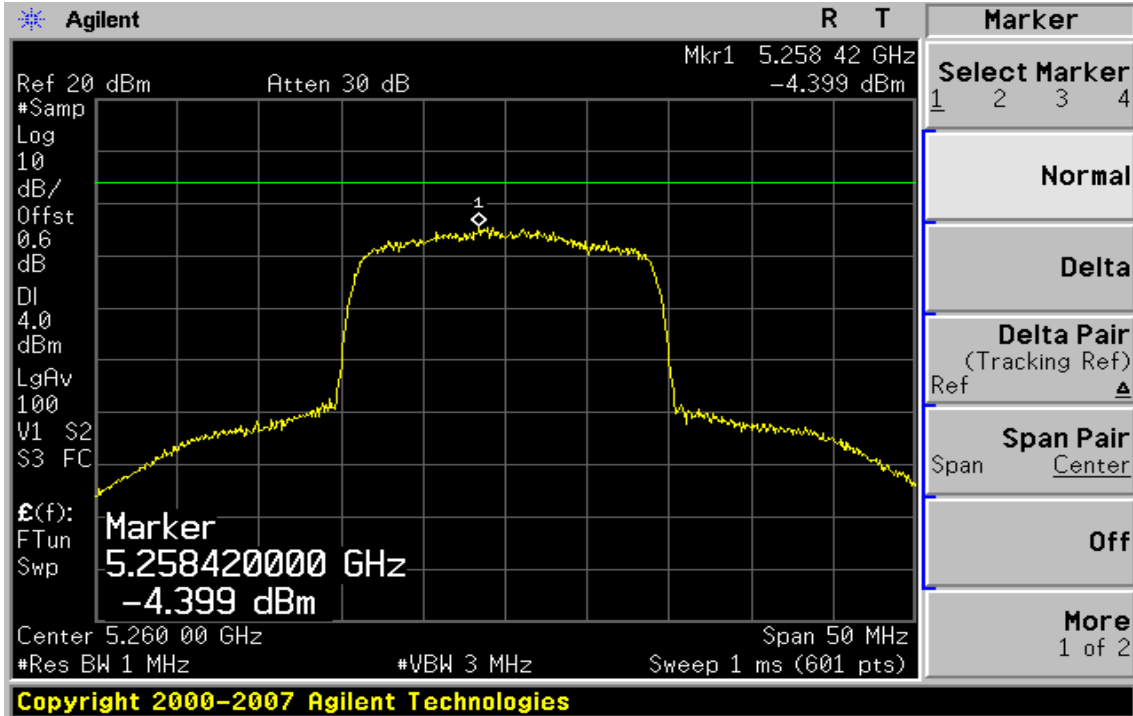
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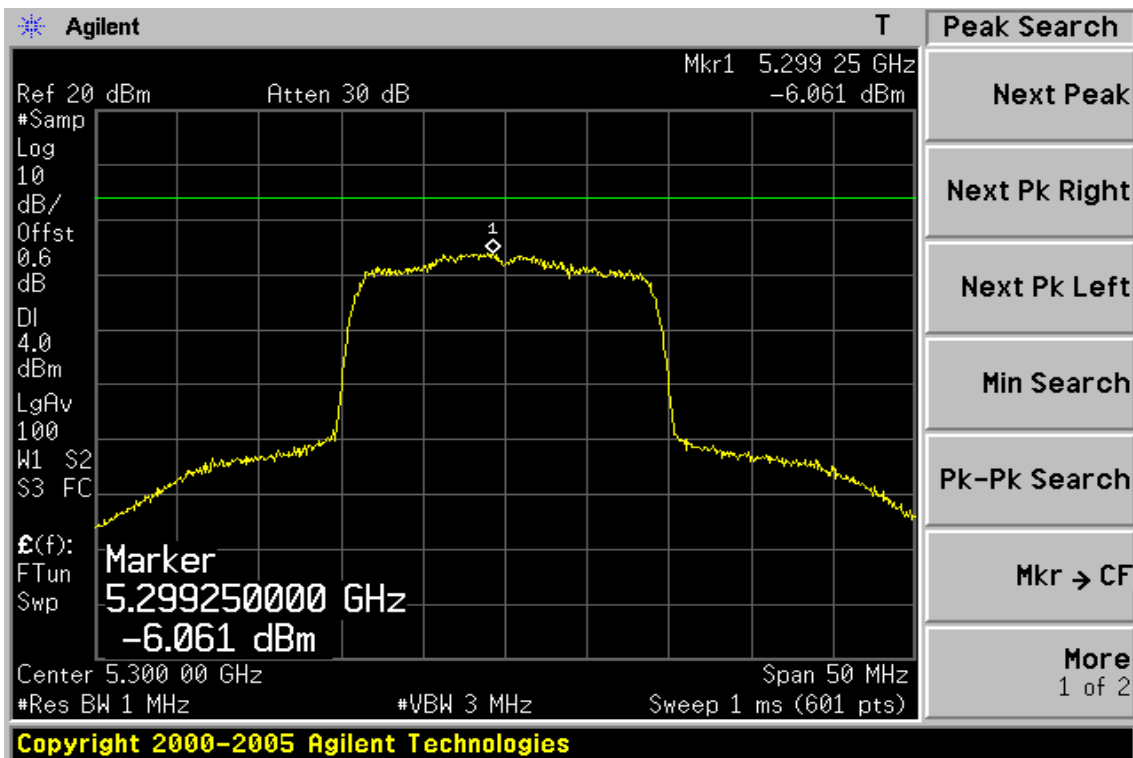
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UNII HT20, 5250~5350 MHz

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



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



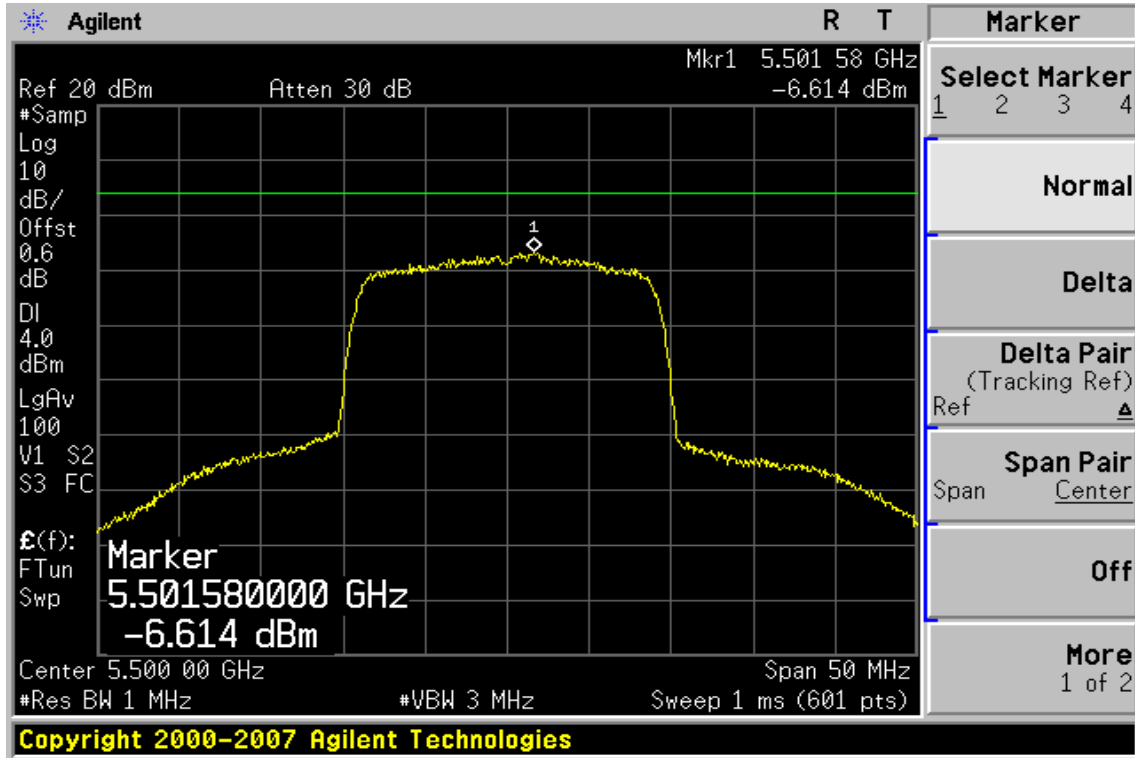
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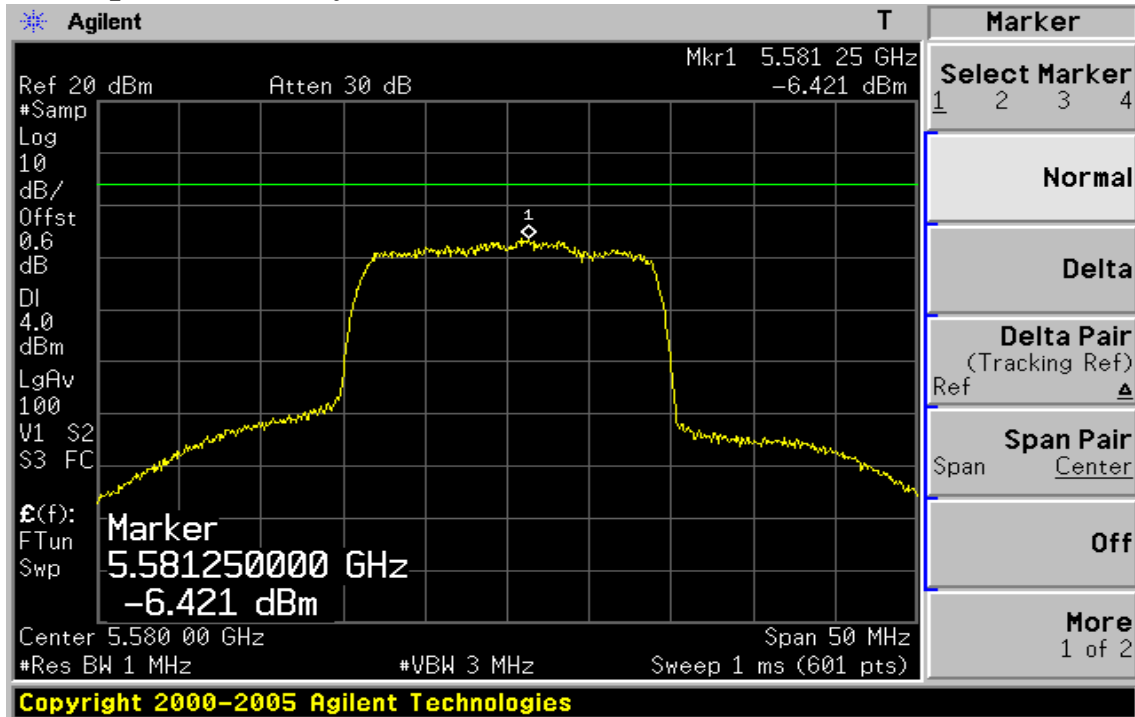
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UNII HT20, 5470~5725 MHz

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



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

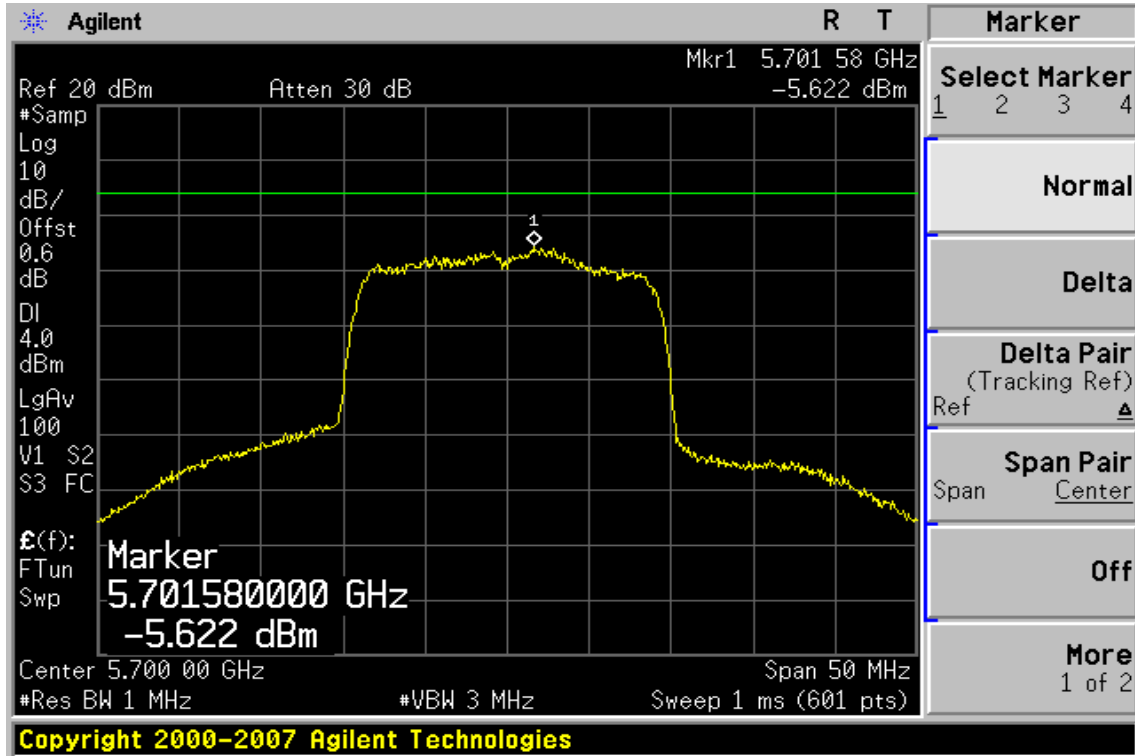


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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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9. PEAK EXCURSION MEASUREMENT

9.1 Standard Applicable

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

9.2 Measurement Procedure

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

9.3 Measurement Equipment Used:

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

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9.4 Test Results:

UNII, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	9.08	13.00	-3.92
Mid	5220	6.00	13.00	-7.00
High	5240	6.96	13.00	-6.04

UNII, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	6.70	13.00	-6.30
Mid	5300	6.72	13.00	-6.28
High	5320	7.89	13.00	-5.11

UNII, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5500	7.37	13.00	-5.63
Mid	5580	7.09	13.00	-5.91
High	5700	7.21	13.00	-5.79

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UNII HT20, 5150~5250 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5180	6.66	13.00	-6.34
Mid	5220	7.59	13.00	-5.41
High	5240	7.71	13.00	-5.29

UNII HT20, 5250~5350 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5260	7.61	13.00	-5.39
Mid	5300	7.58	13.00	-5.42
High	5320	6.47	13.00	-6.53

UNII HT20, 5470~5725 MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Low	5500	7.19	13.00	-5.81
Mid	5580	6.86	13.00	-6.14
High	5700	7.95	13.00	-5.05

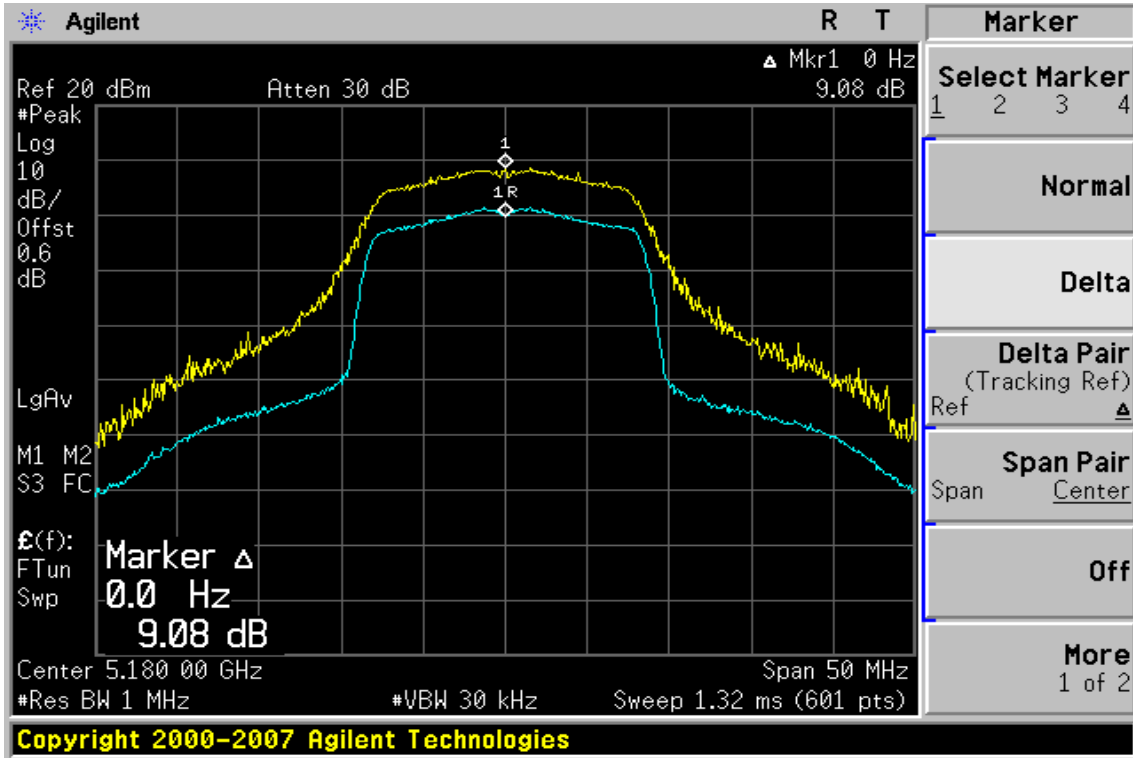
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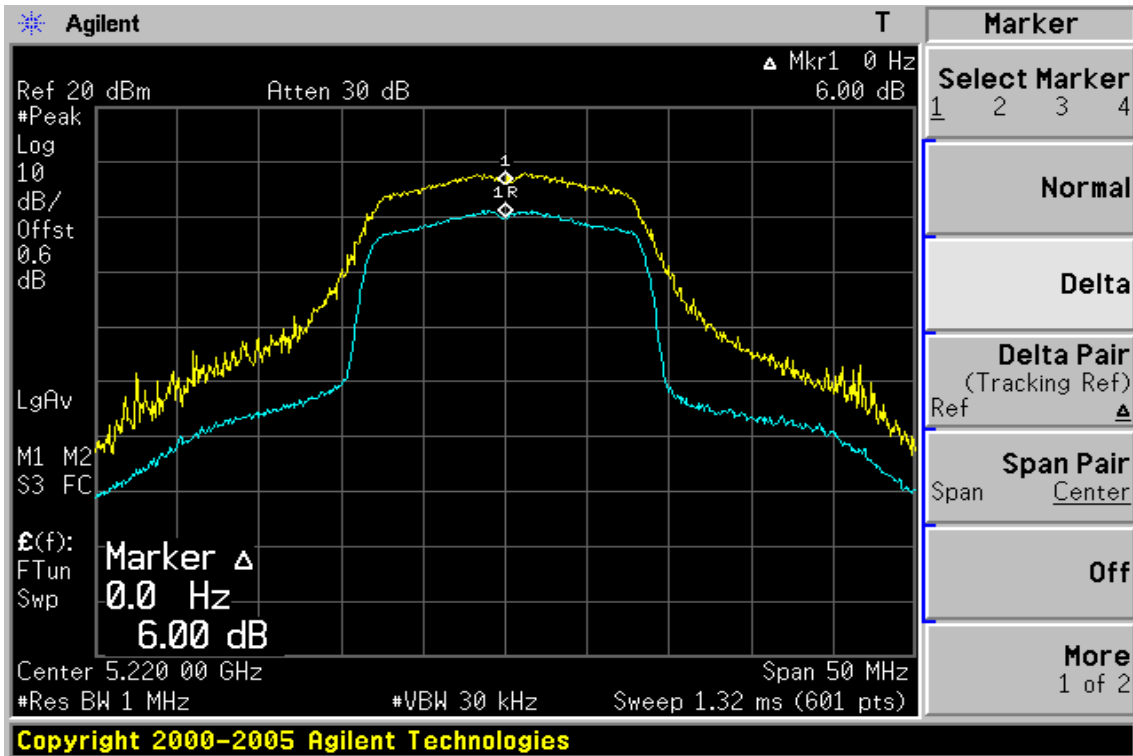
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UNII, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)

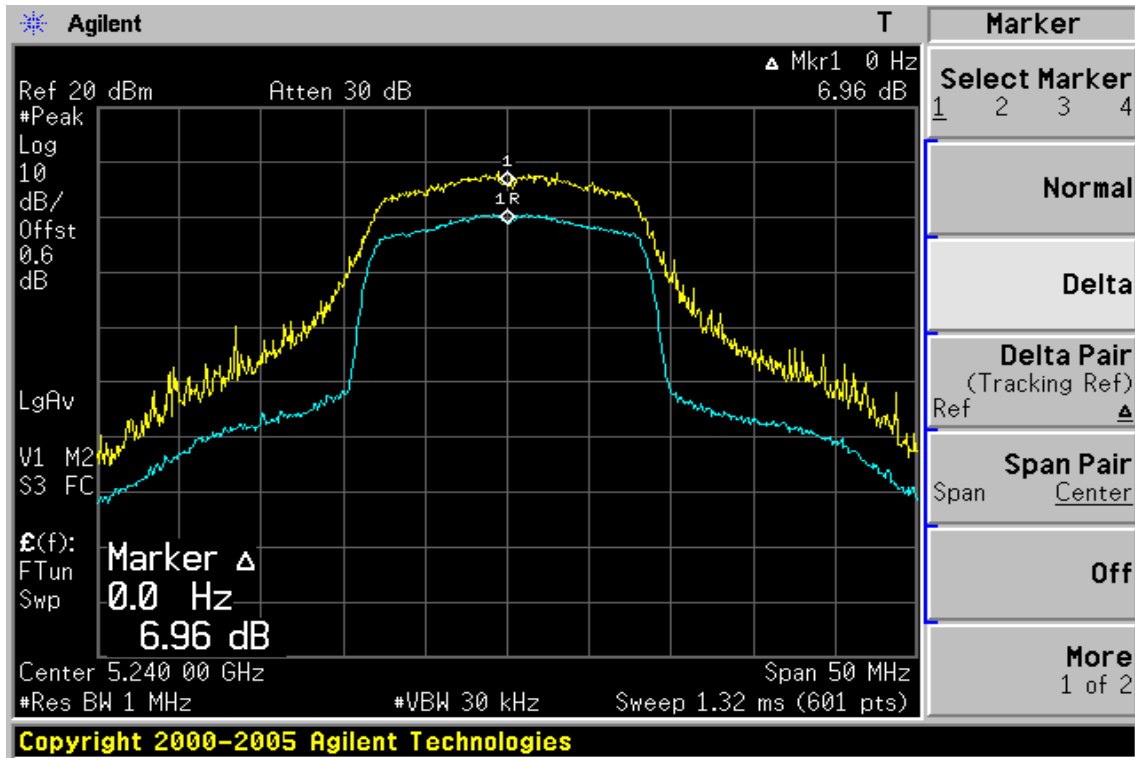


Peak Excursion Data Plot (CH Mid 5220 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)



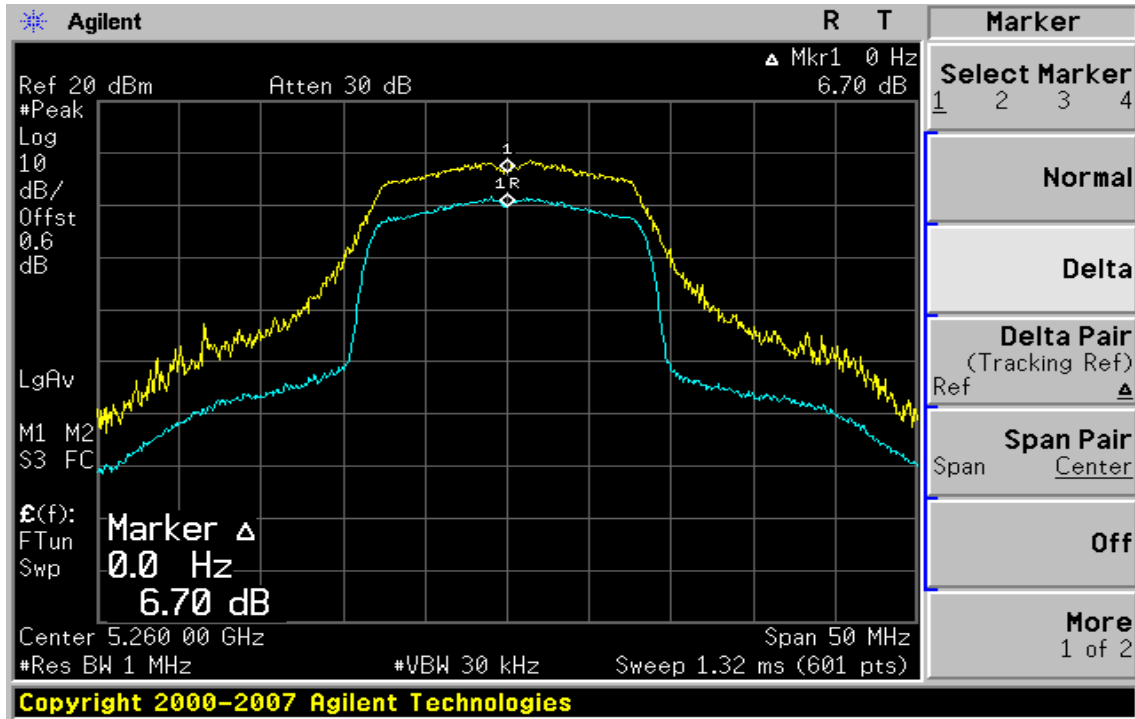
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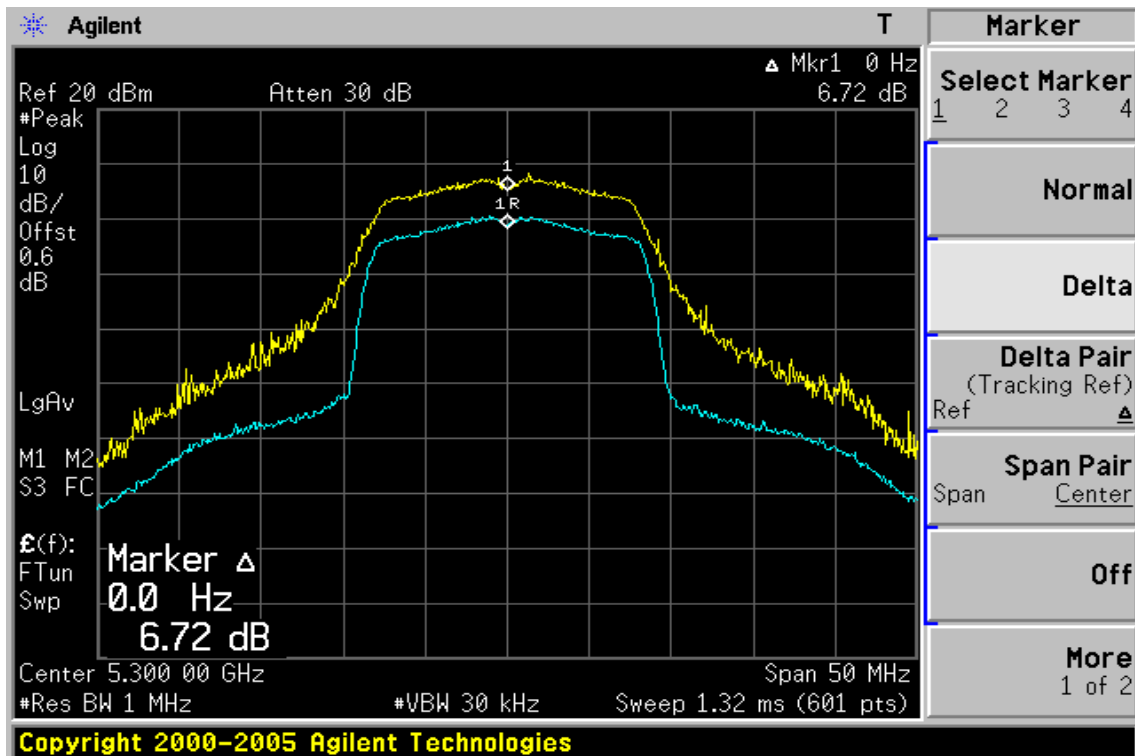
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UNII, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5260 MHz)



Peak Excursion Data Plot (CH Mid 5300 MHz)

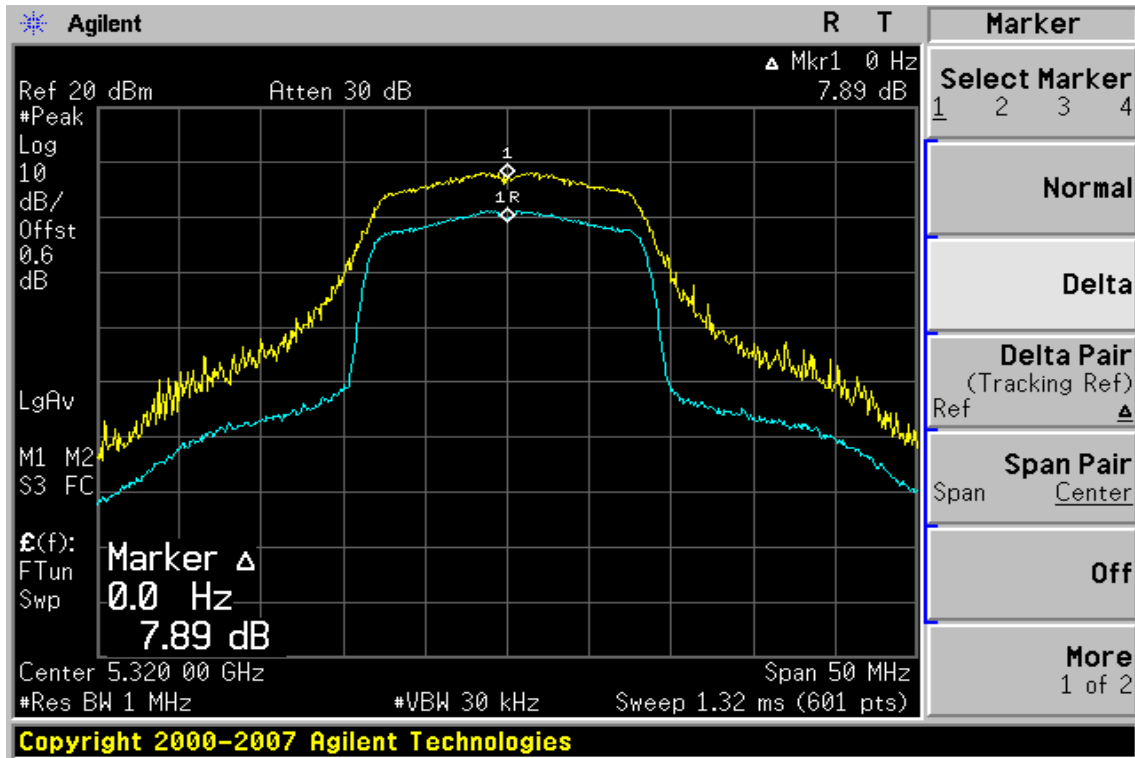


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Peak Excursion Data Plot (CH High 5320 MHz)



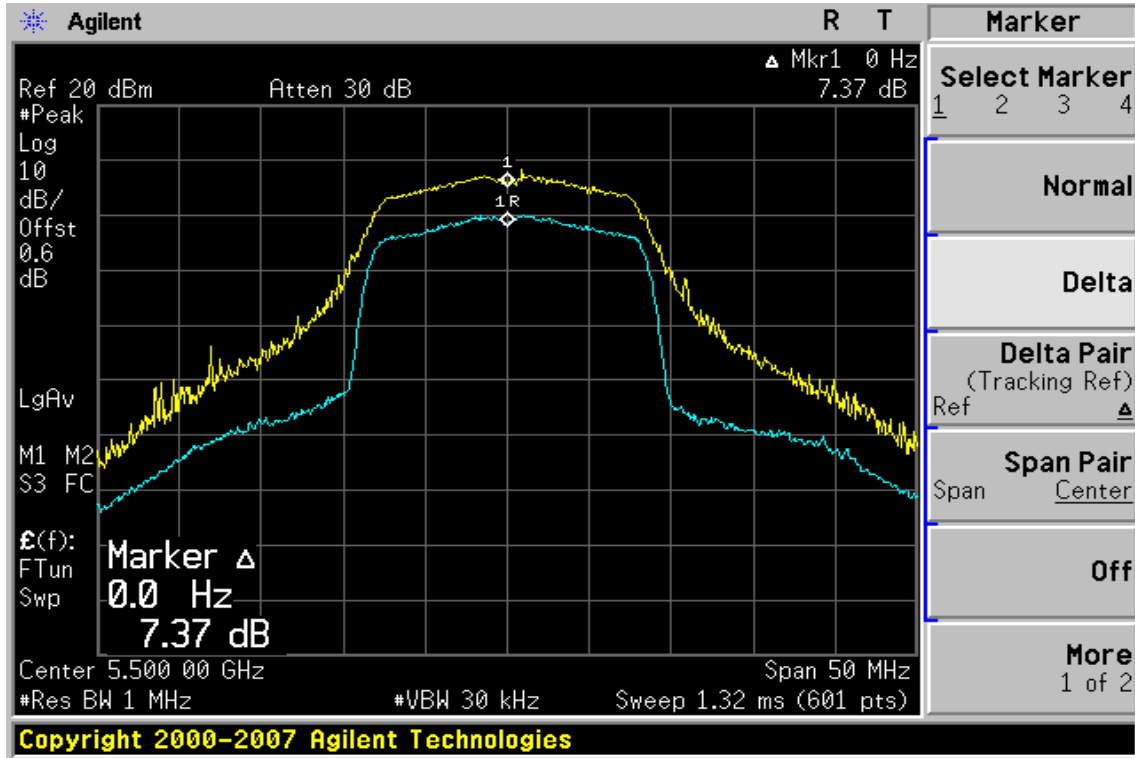
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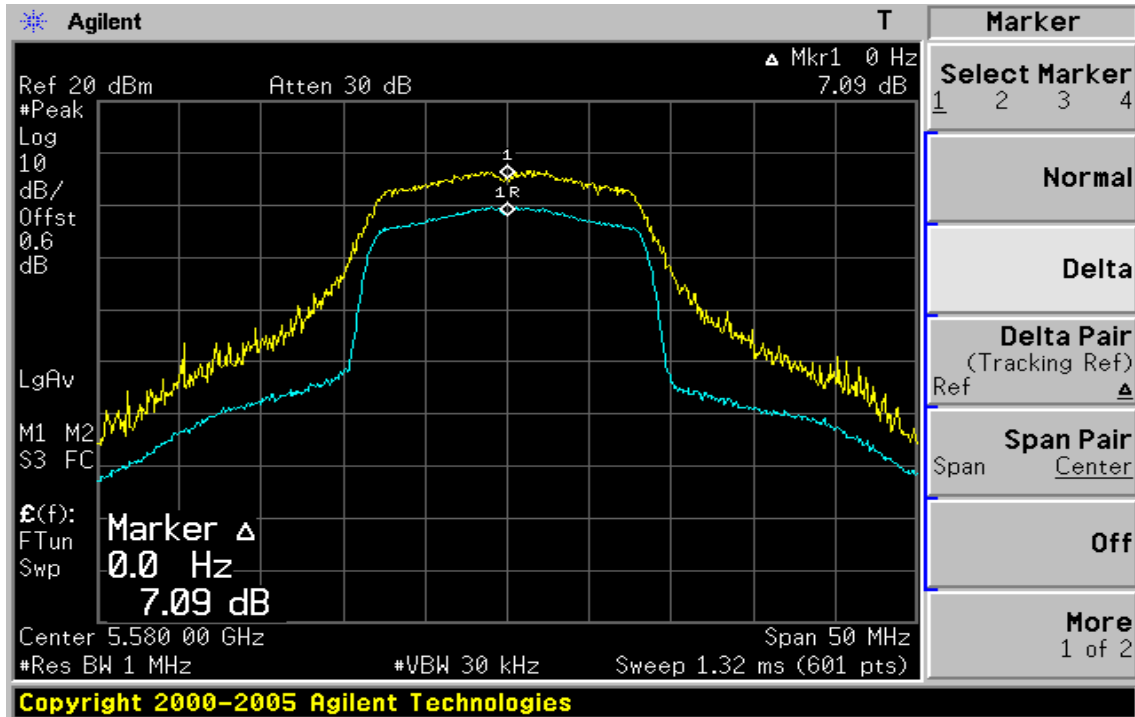
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UNII, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5500 MHz)



Peak Excursion Data Plot (CH Mid 5580 MHz)

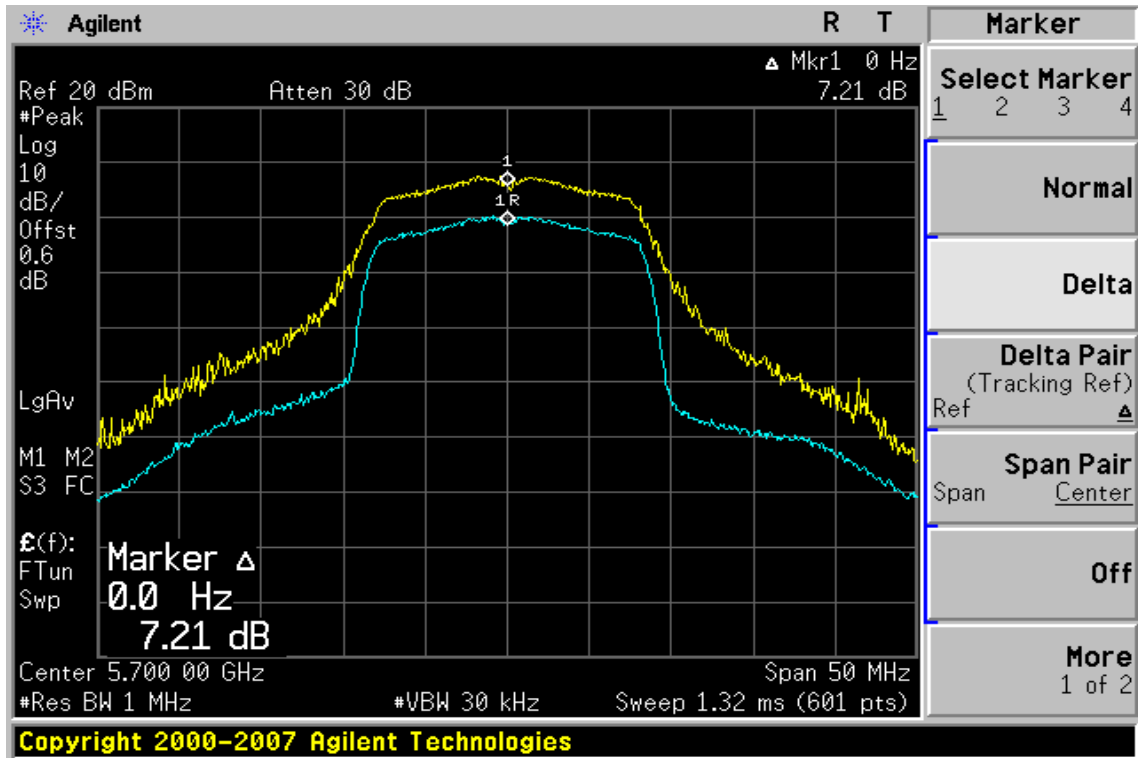


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Peak Excursion Data Plot (CH High 5700 MHz)



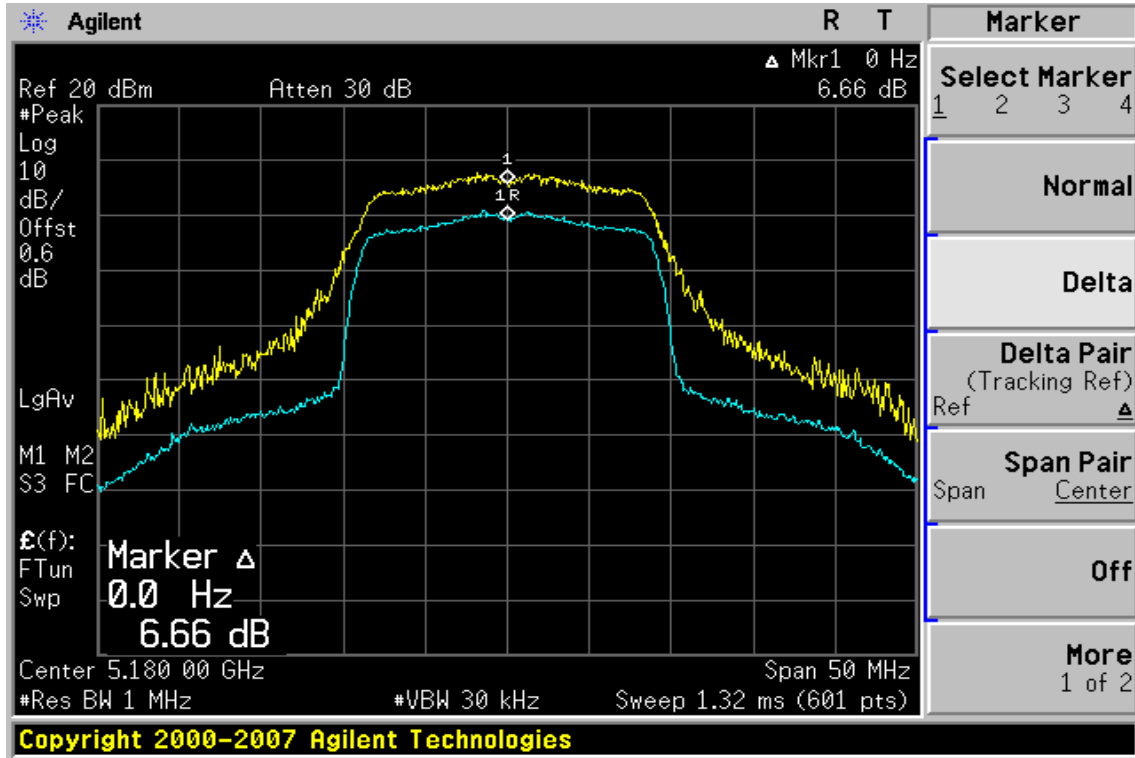
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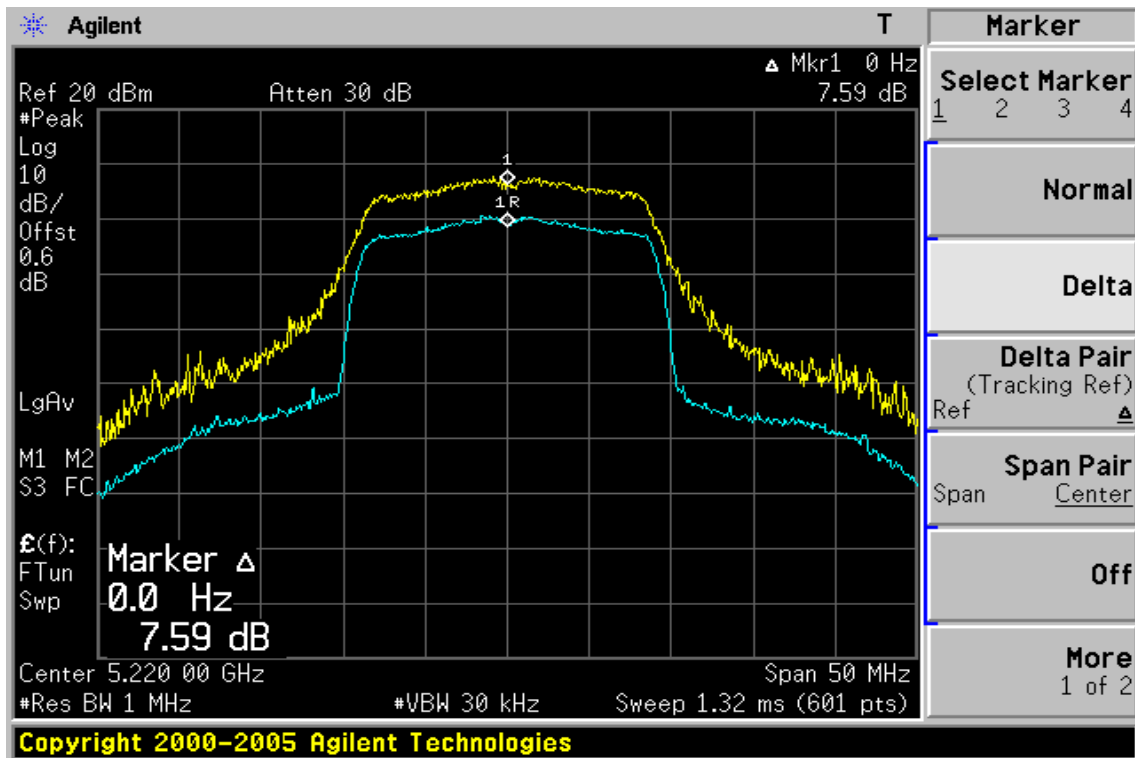
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UNII, HT20, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)

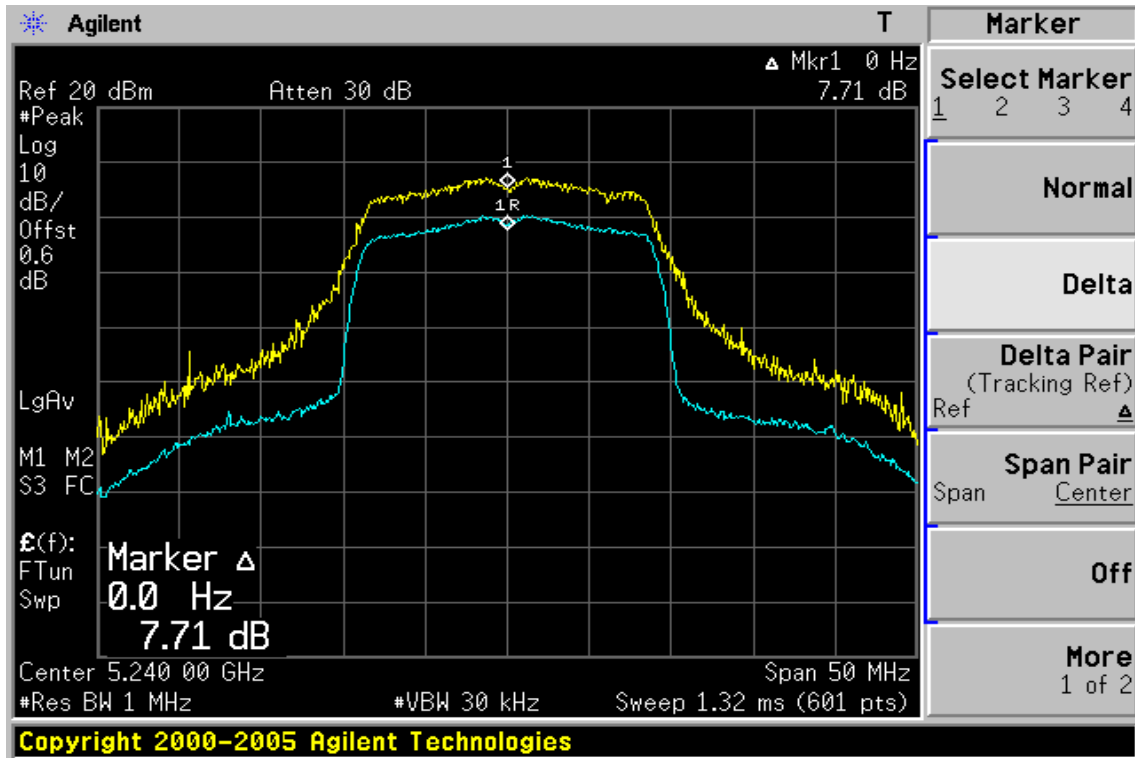


Peak Excursion Data Plot (CH Mid 5220 MHz)



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Peak Excursion Data Plot (CH High 5240 MHz)



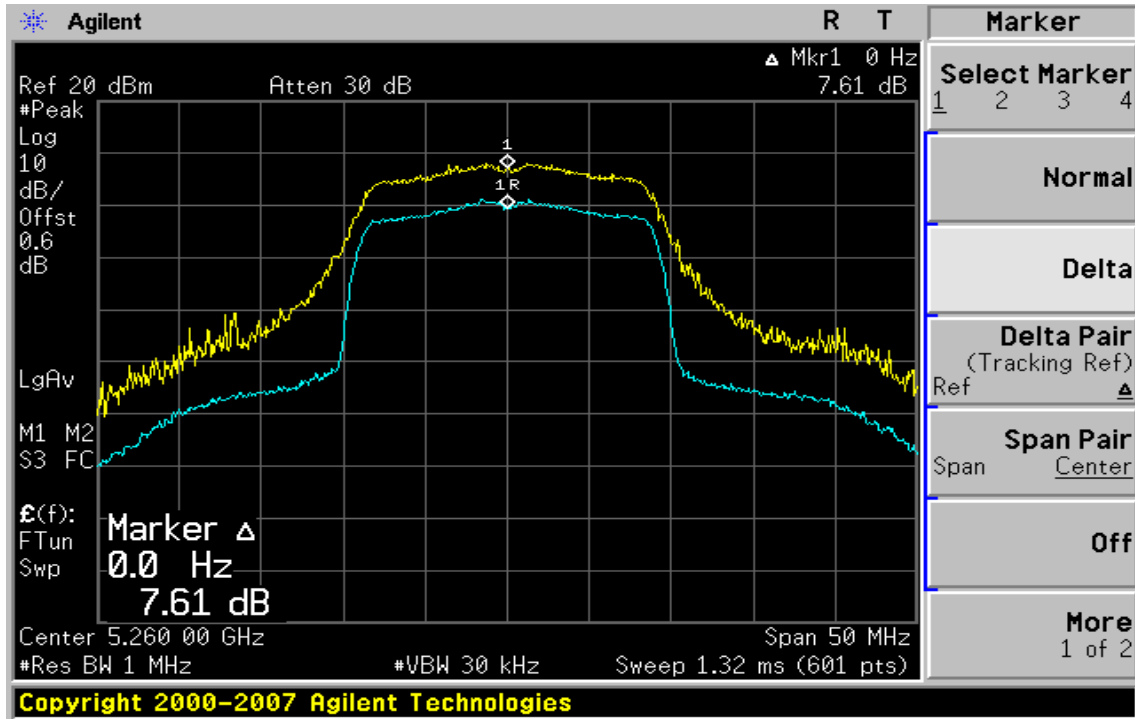
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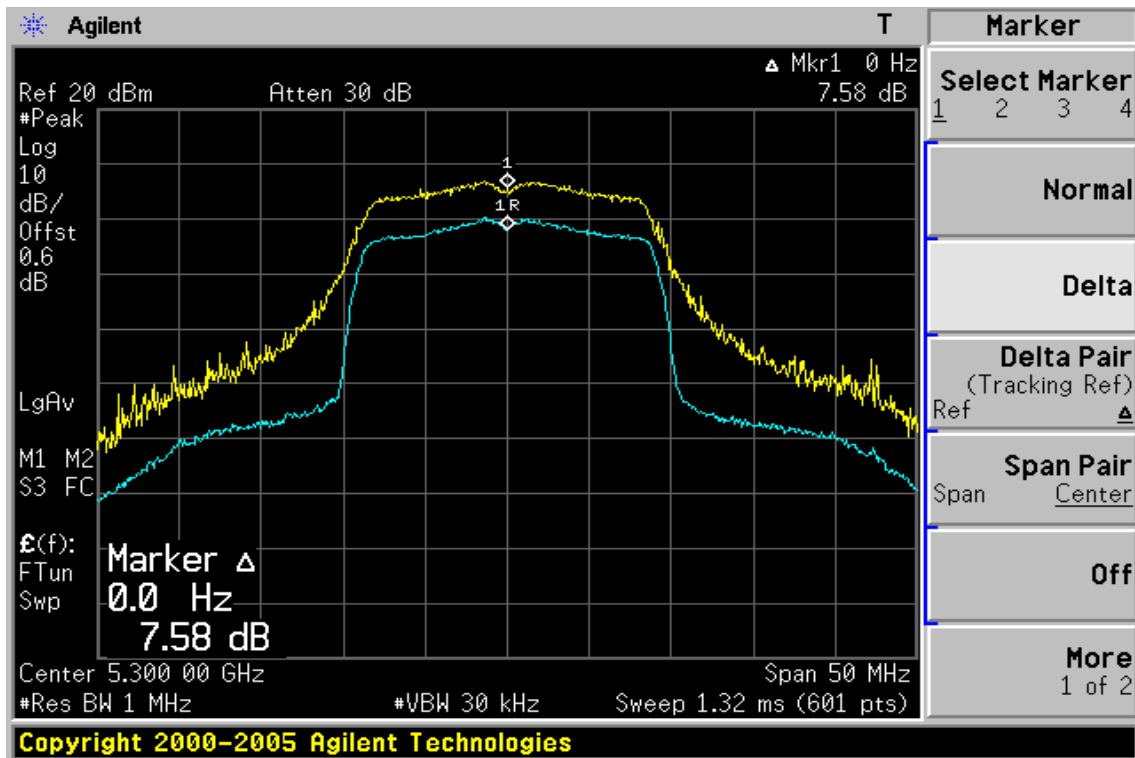
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UNII, HT20, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5260MHz)

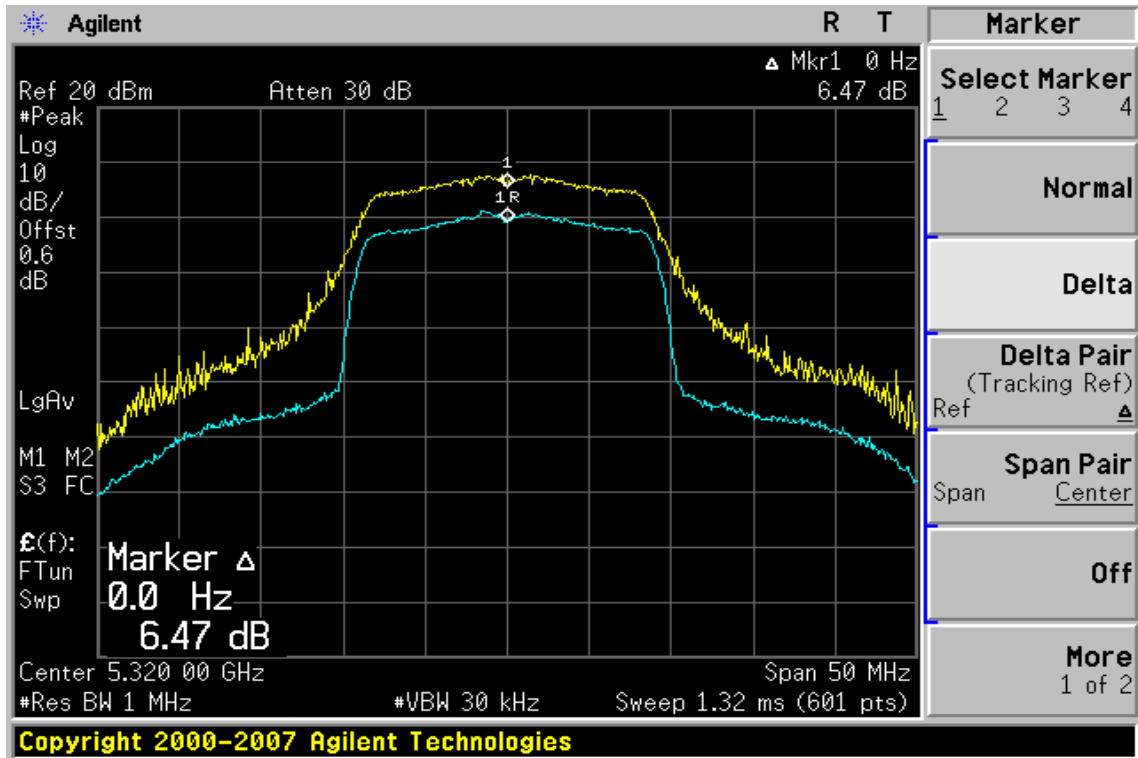


Peak Excursion Data Plot (CH Mid 5300MHz)



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Peak Excursion Data Plot (CH High 5320MHz)



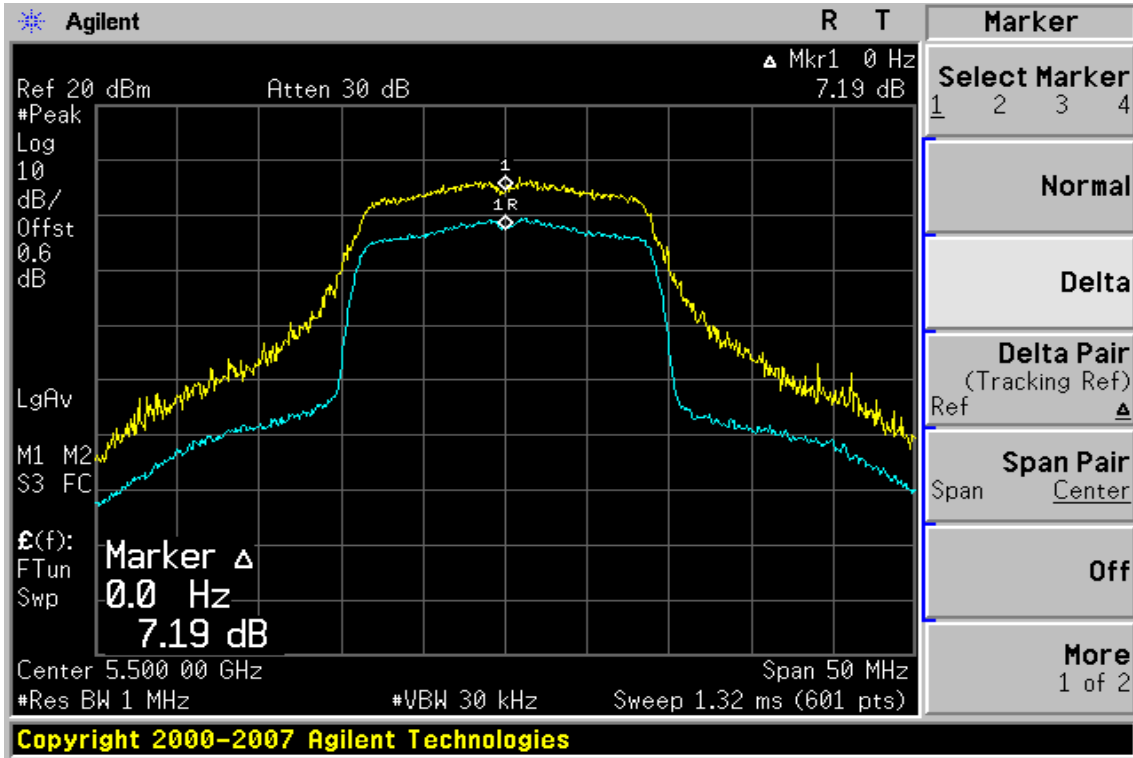
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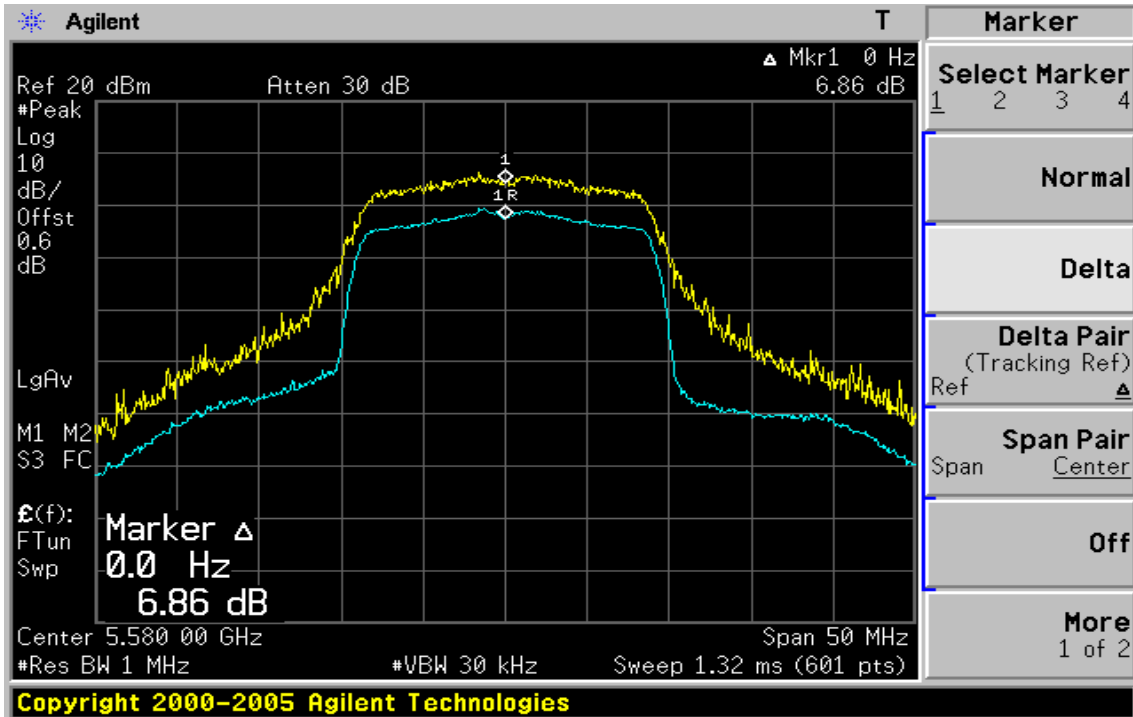
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UNII HT20, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5500 MHz)



Peak Excursion Data Plot (CH Mid 5580 MHz)

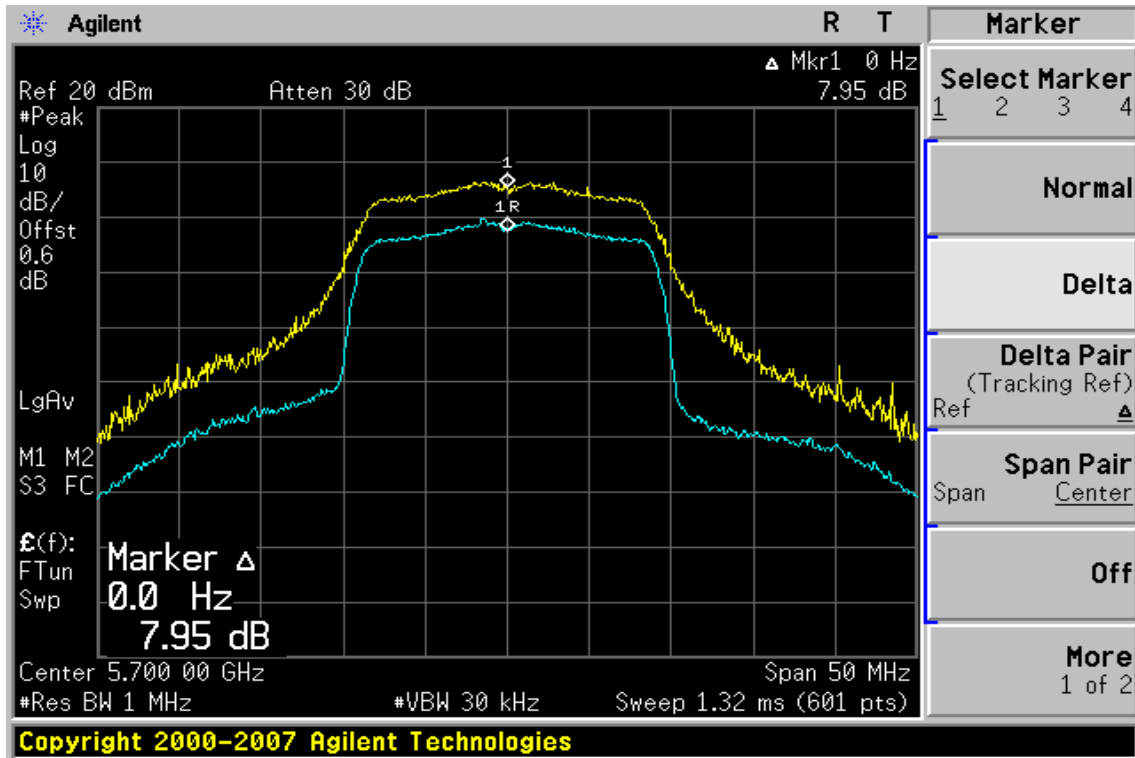


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Peak Excursion Data Plot (CH High 5700 MHz)



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10. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

10.1 Standard Applicable

According to §15.407(b),

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

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

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10.2 Measurement Procedure

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

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

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

10.3 Measurement Equipment Used:

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

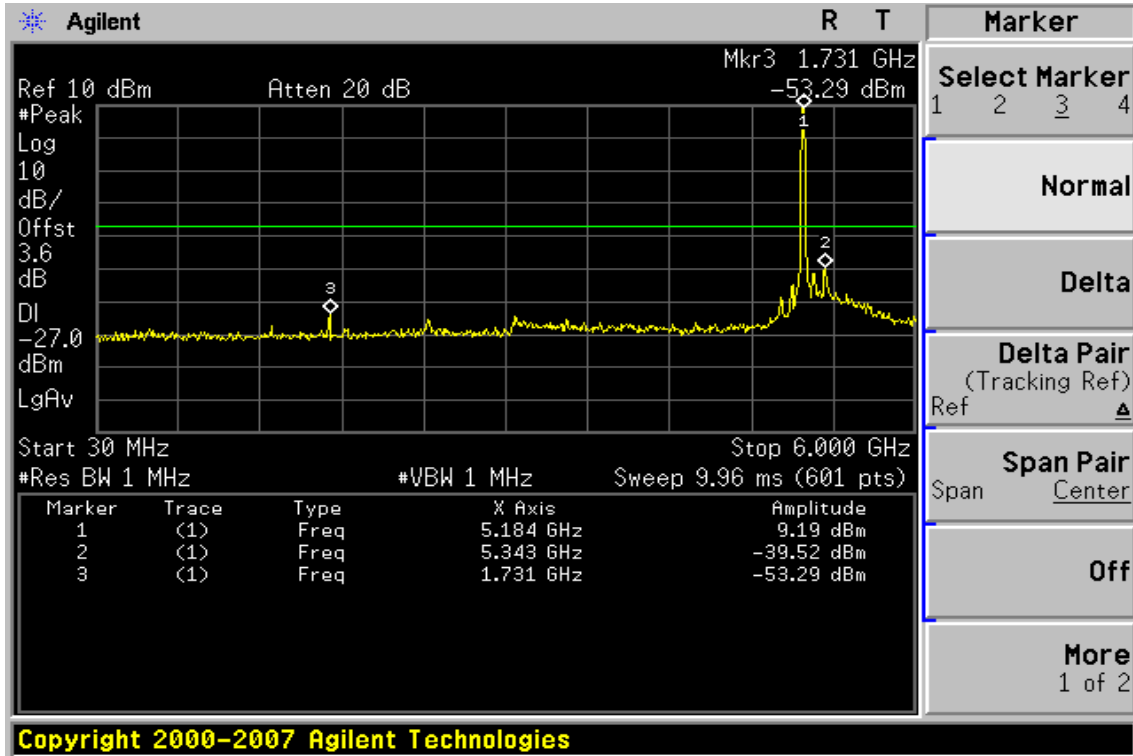
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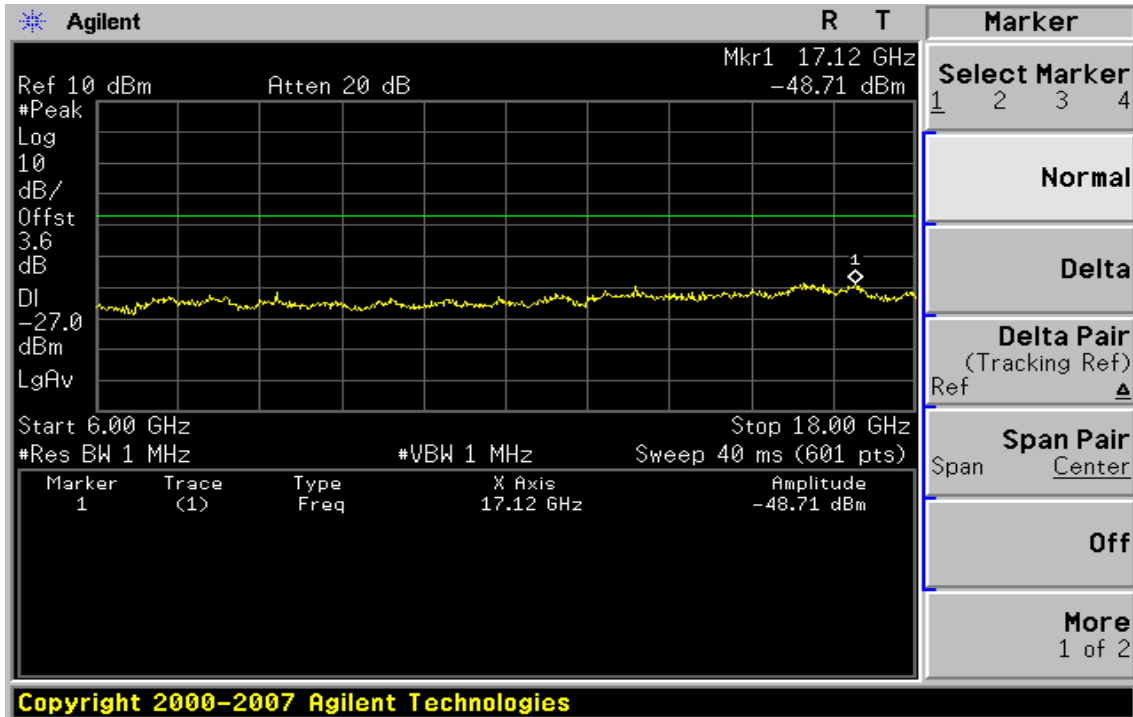
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UNII, 5150~5250 MHz

Ch Low 30MHz – 6GHz (5180 MHz)



Ch Low 6GHz – 18GHz

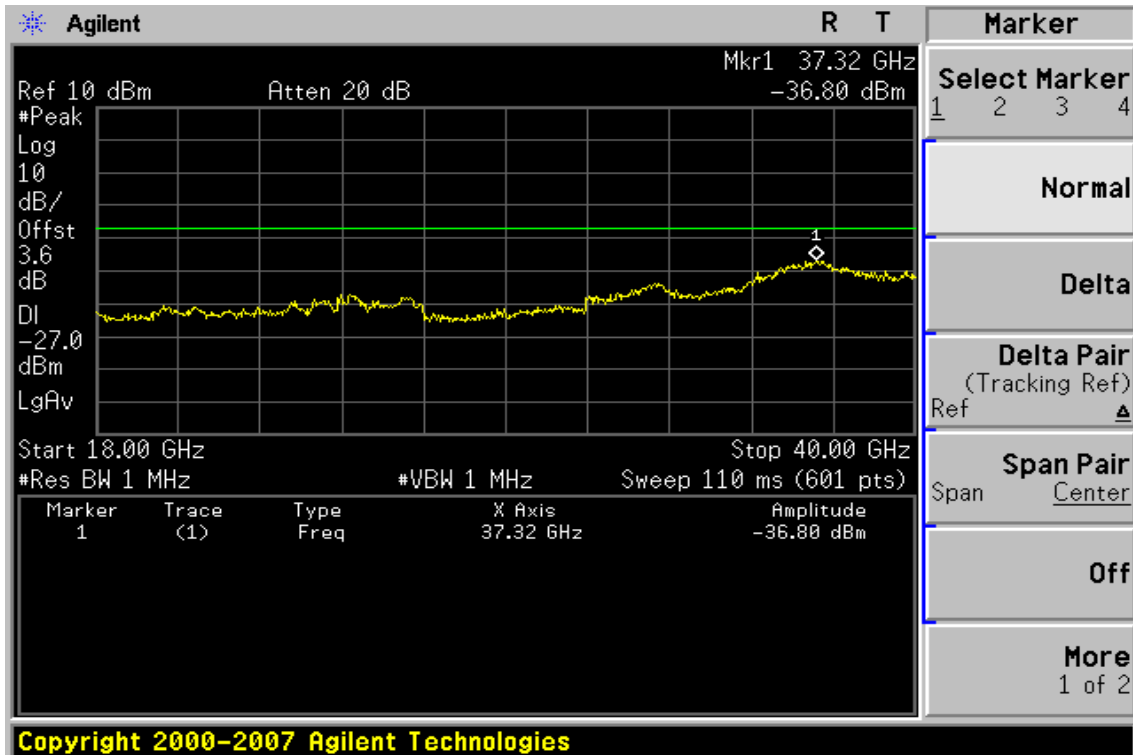


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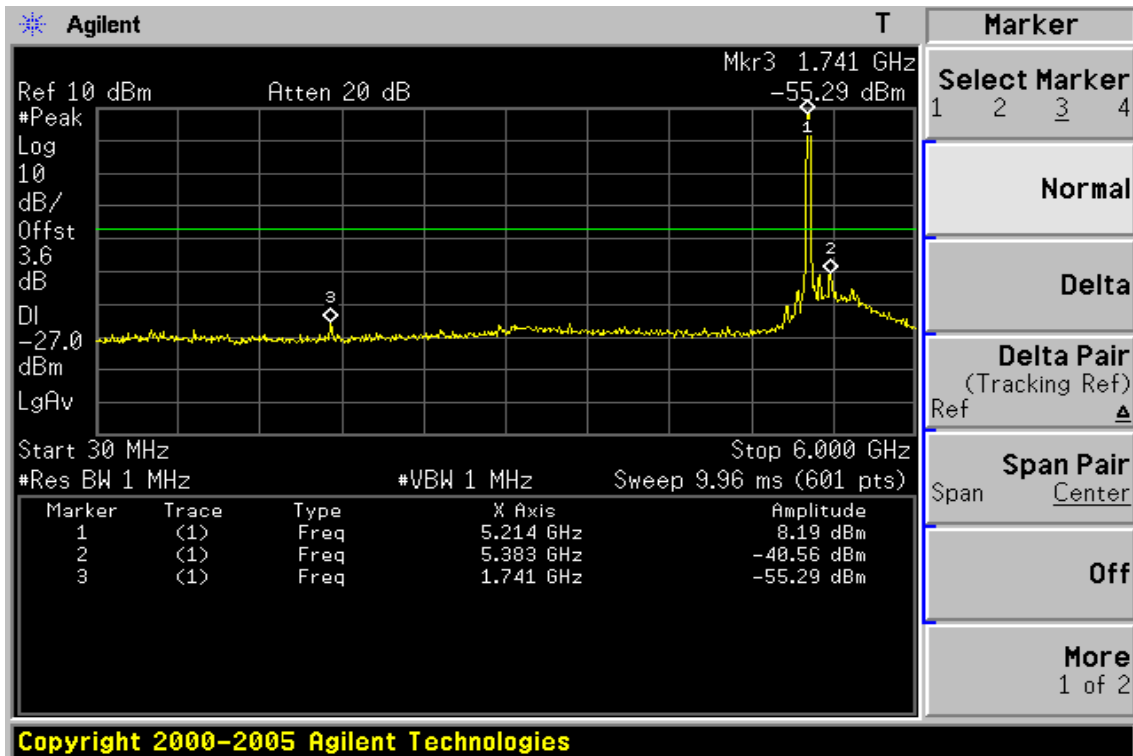
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5220 MHz)

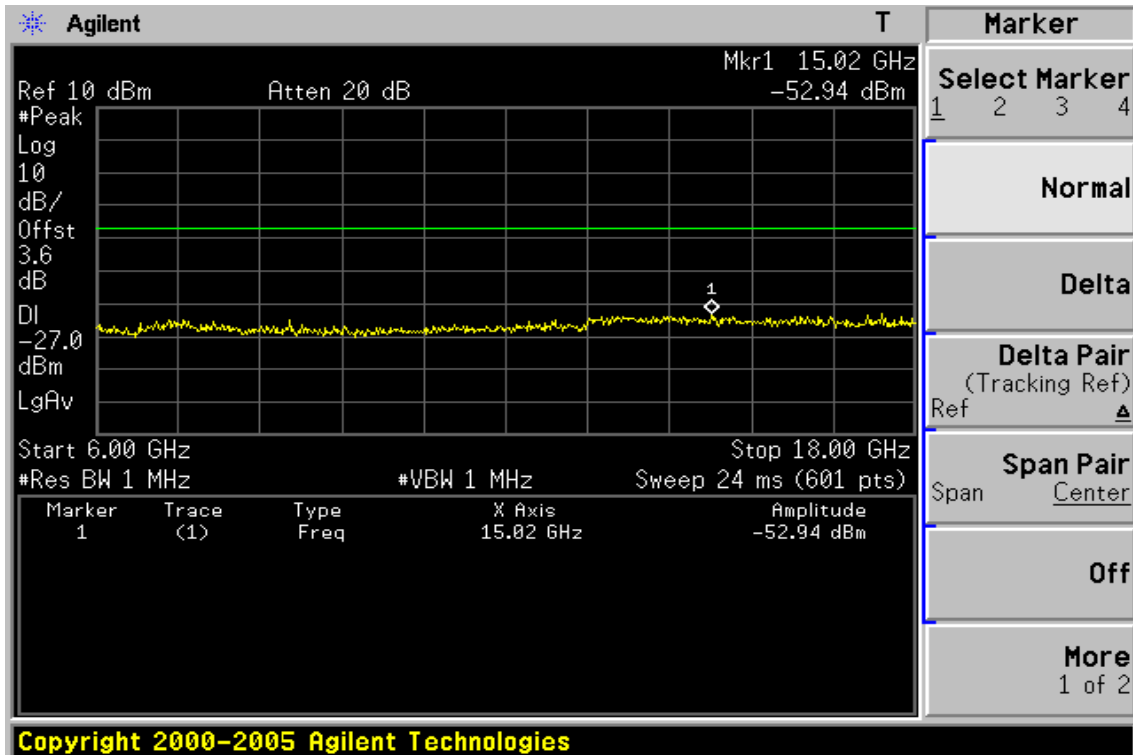


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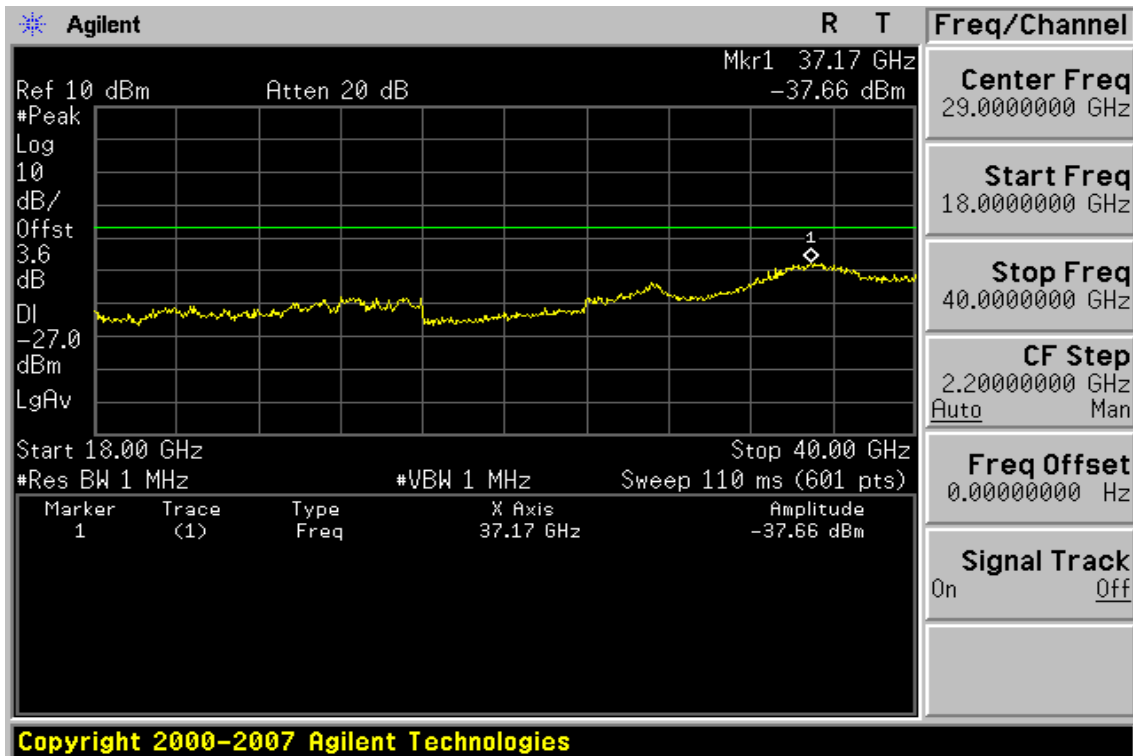
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

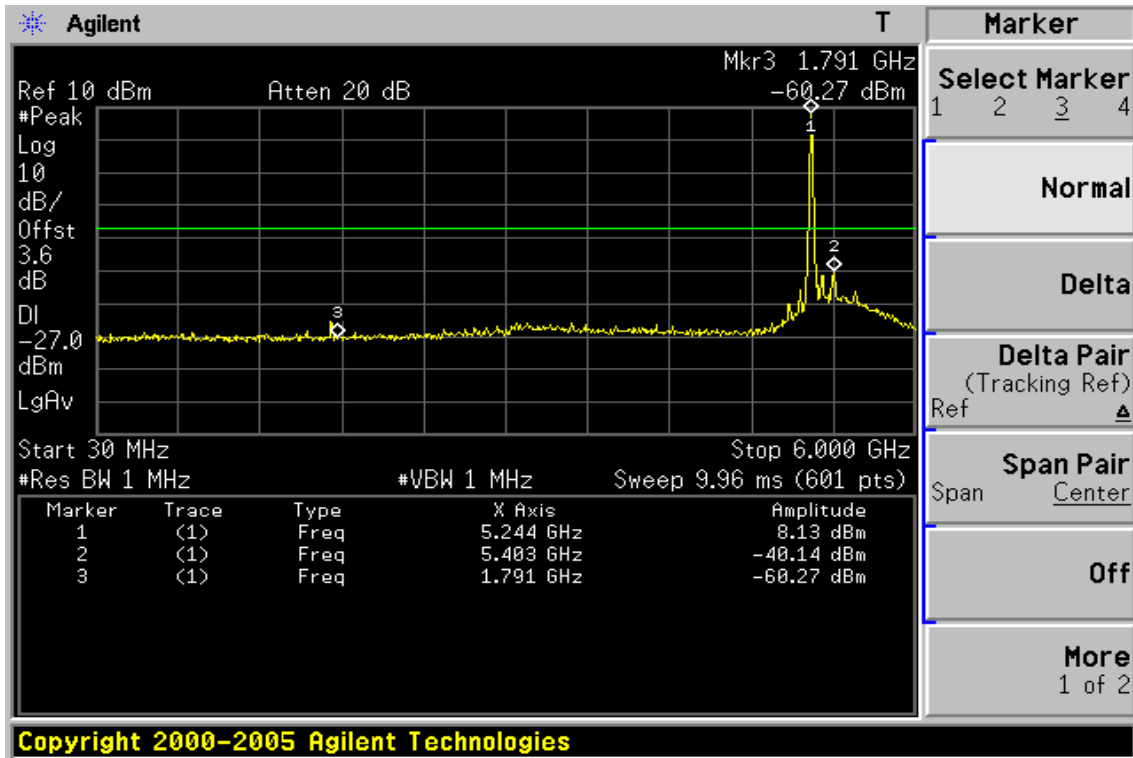


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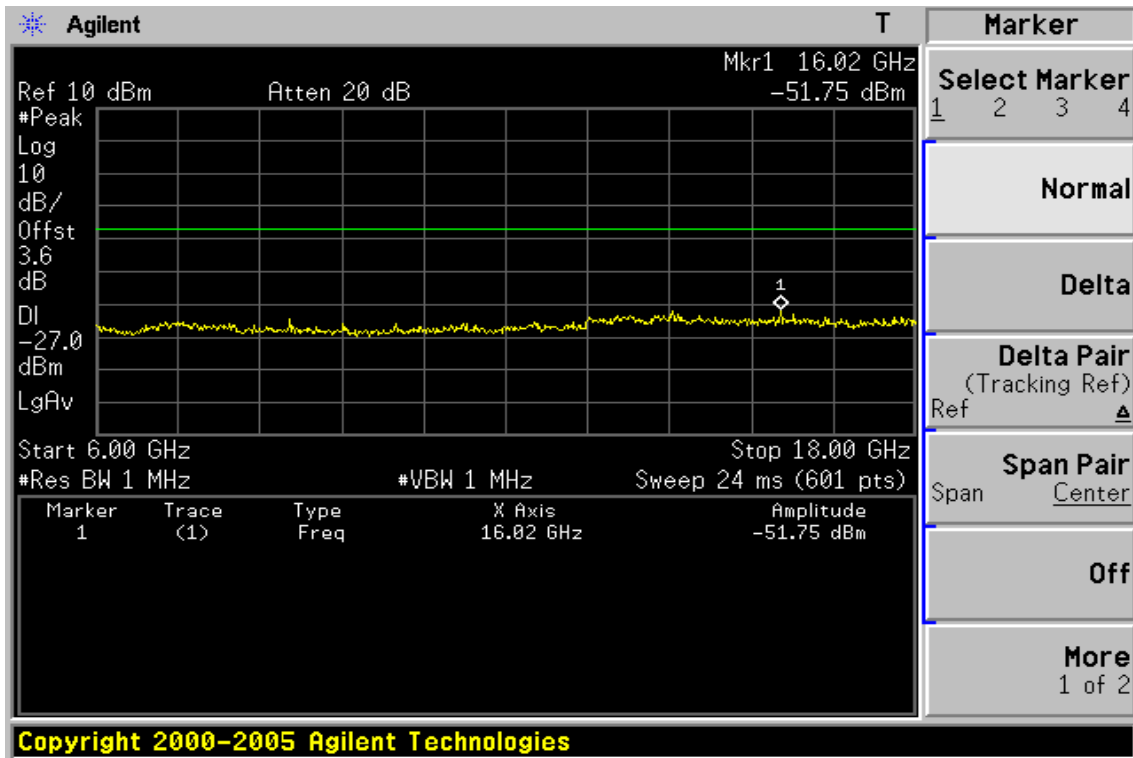
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Ch High 30MHz – 6GHz (5240 MHz)



Ch High 6GHz – 18GHz

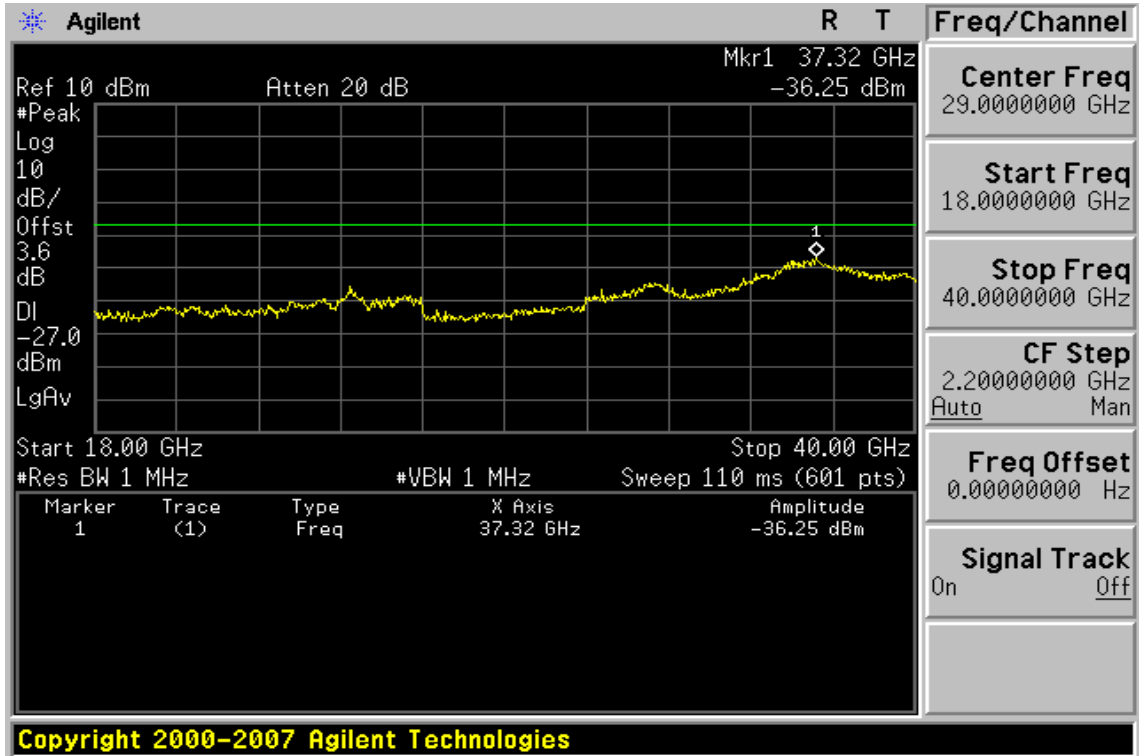


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Ch High 18GHz – 40GHz

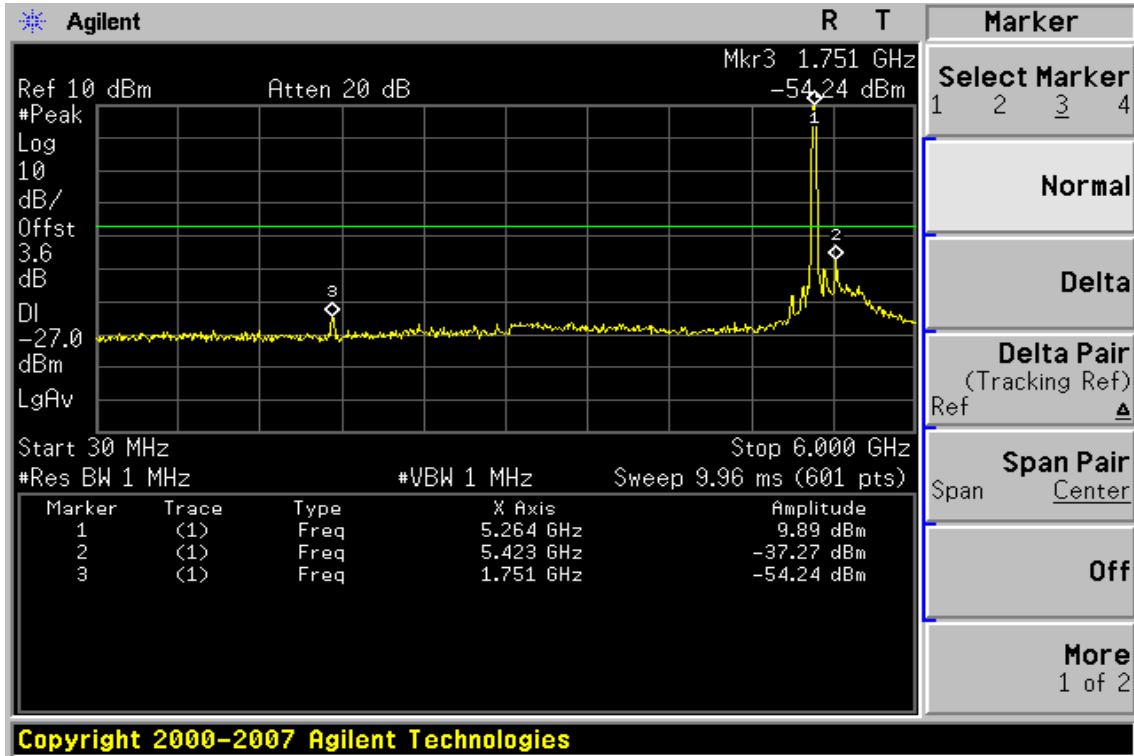


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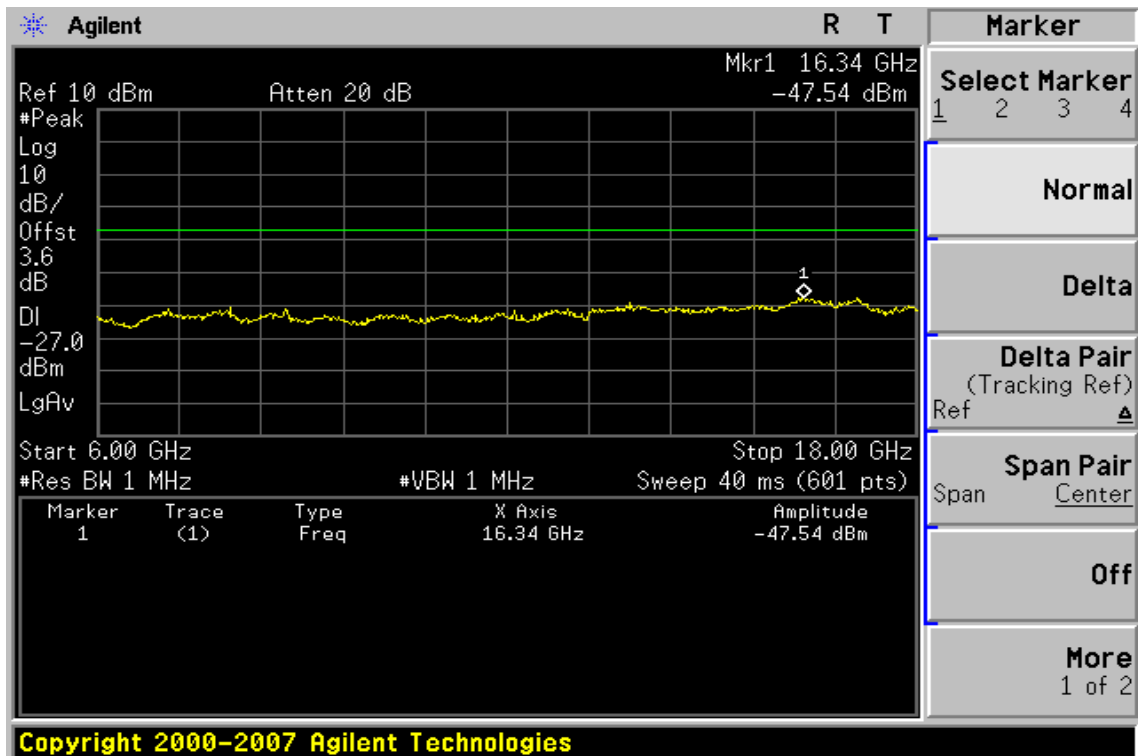
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UNII, 5250~5350 MHz
Ch Low 30MHz – 6GHz (5260 MHz)



Ch Low 6GHz – 18GHz

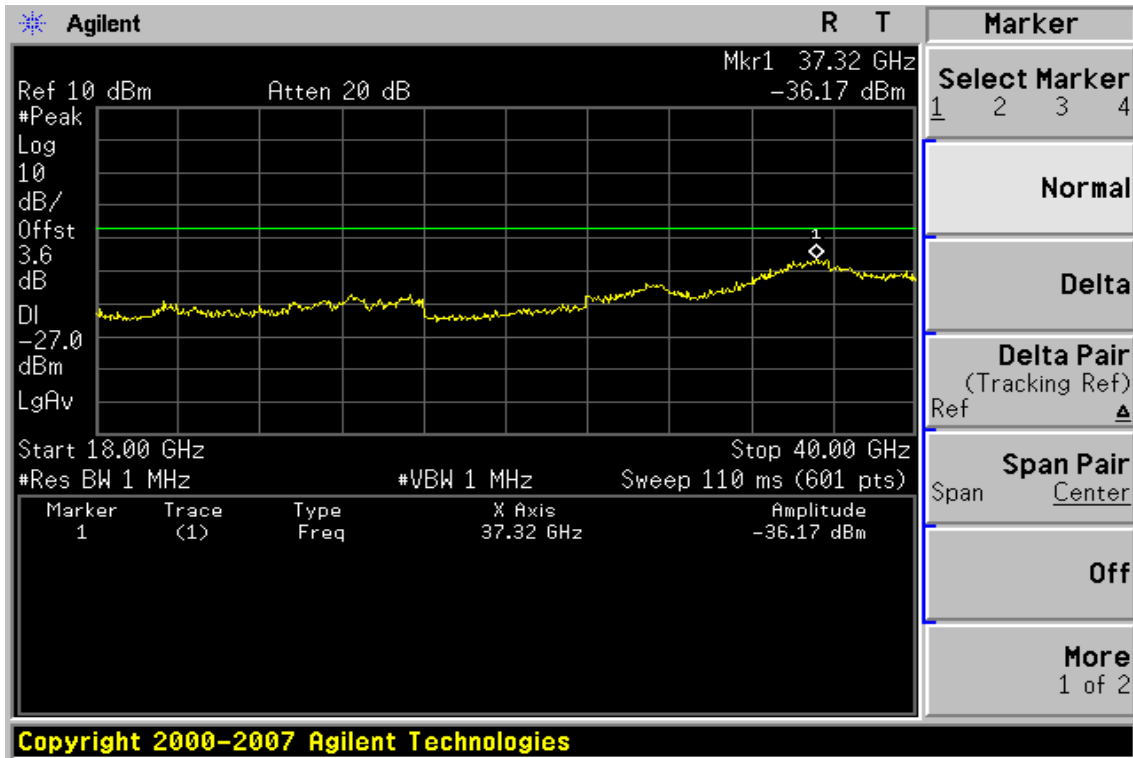


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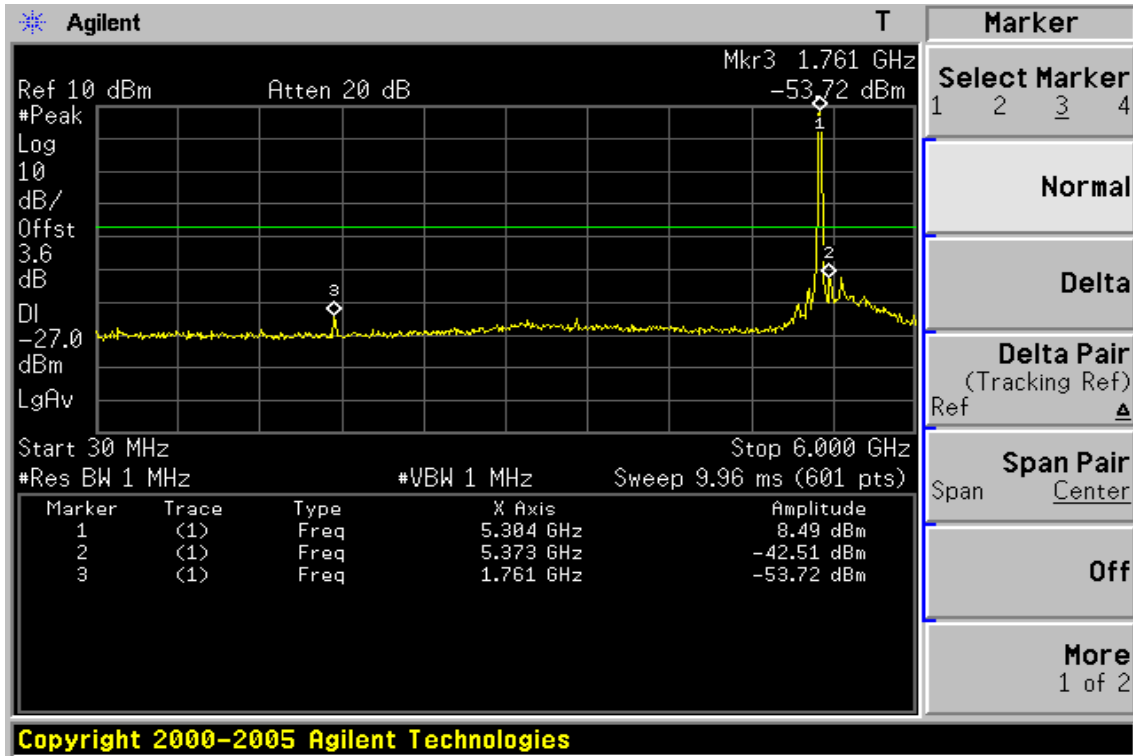
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5300 MHz)

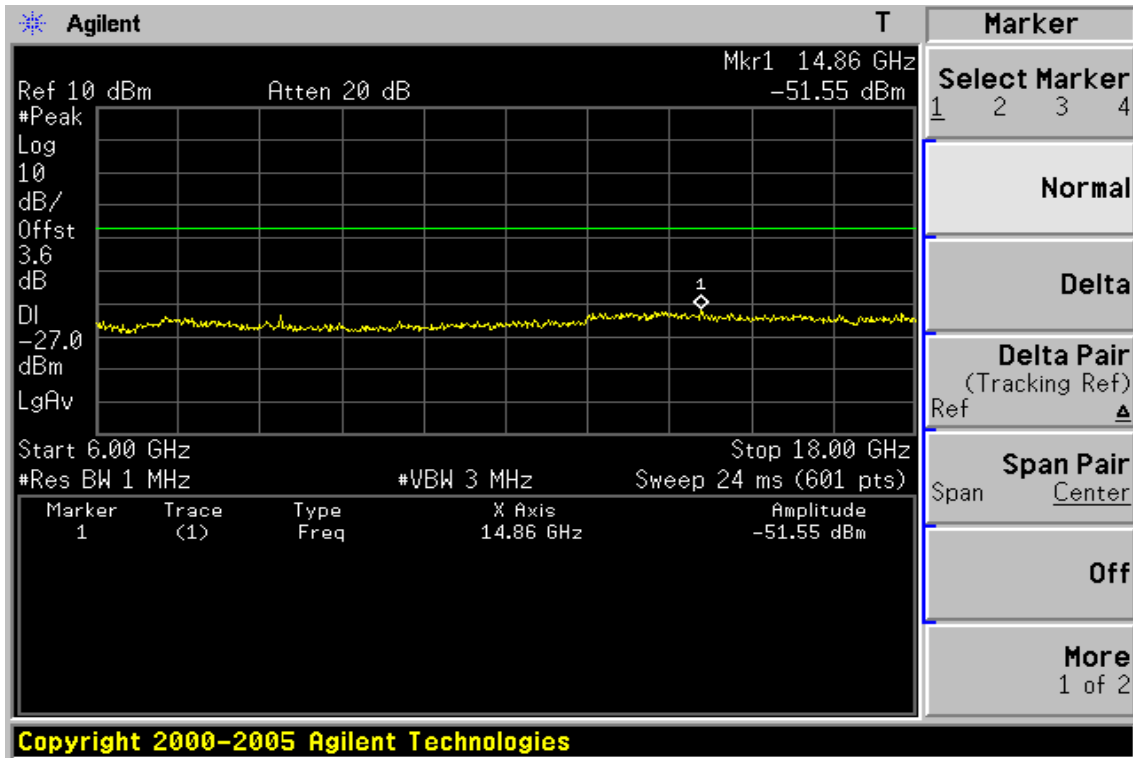


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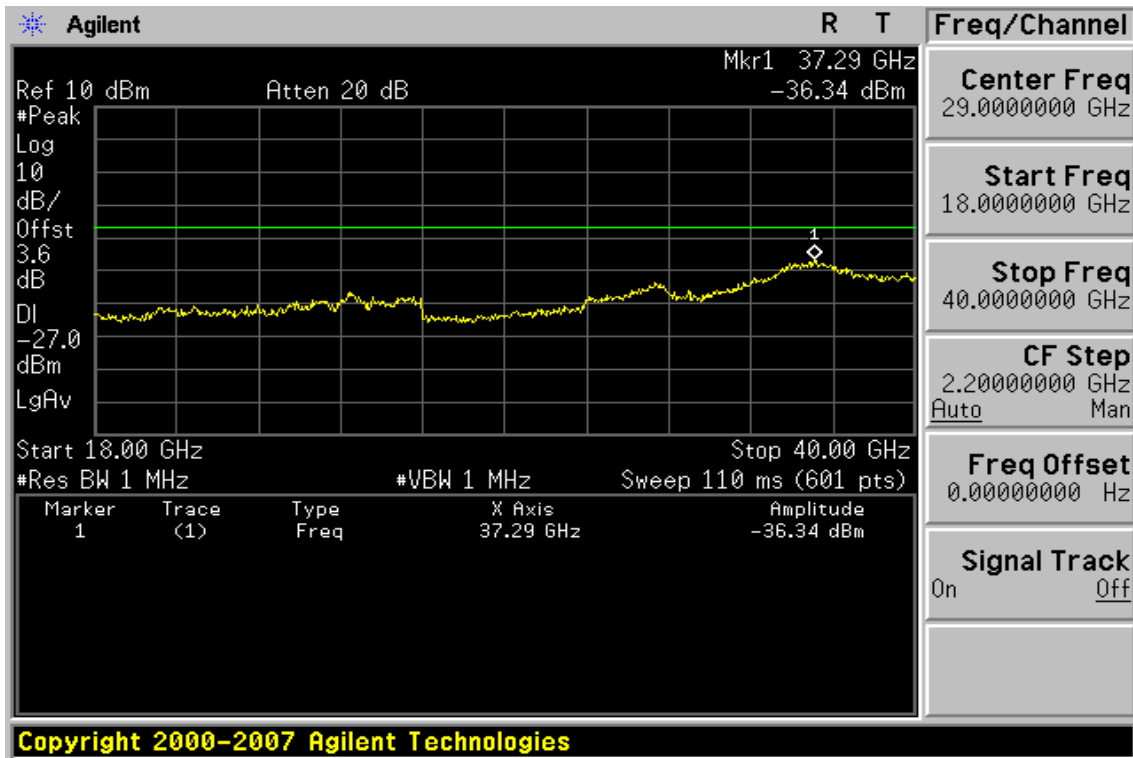
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

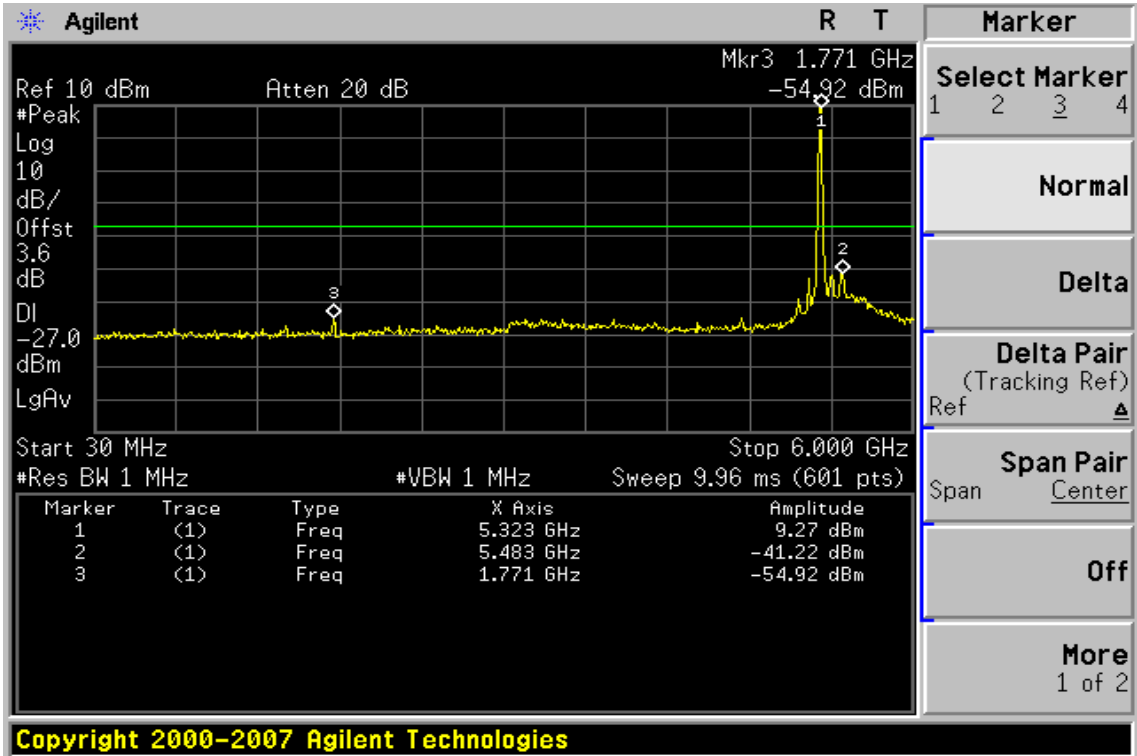


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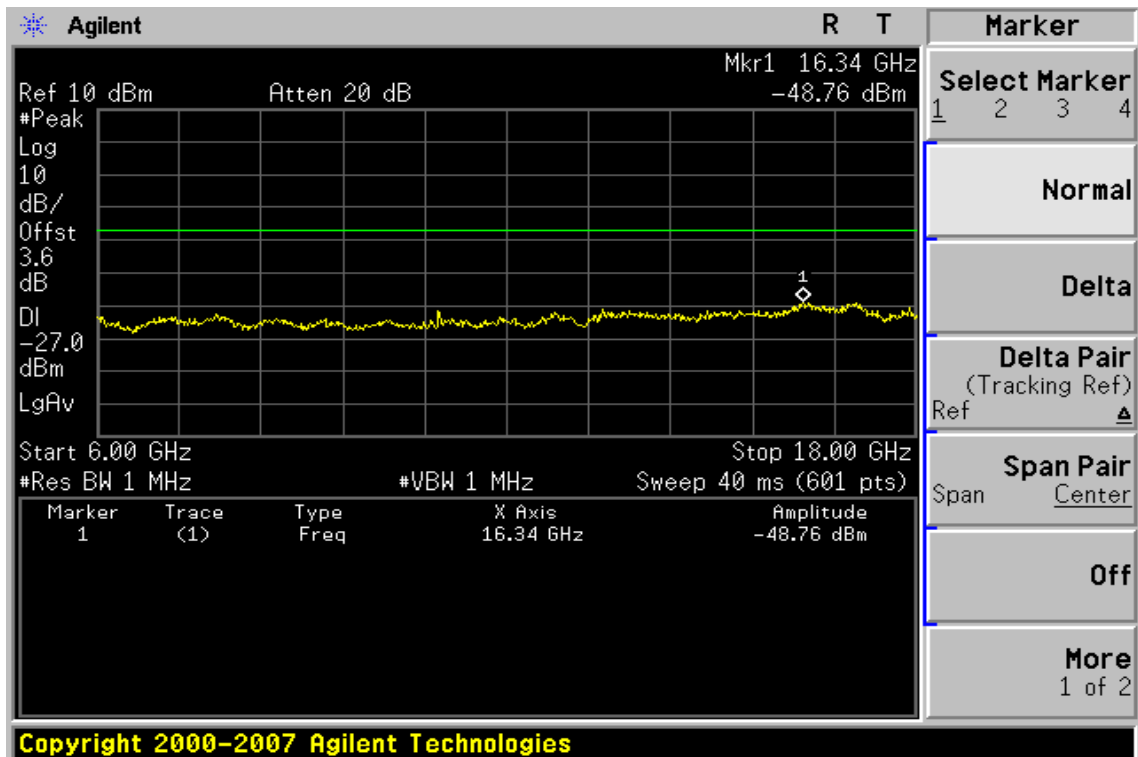
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Ch High 30MHz – 6GHz (5320 MHz)



Ch High 6GHz – 18GHz

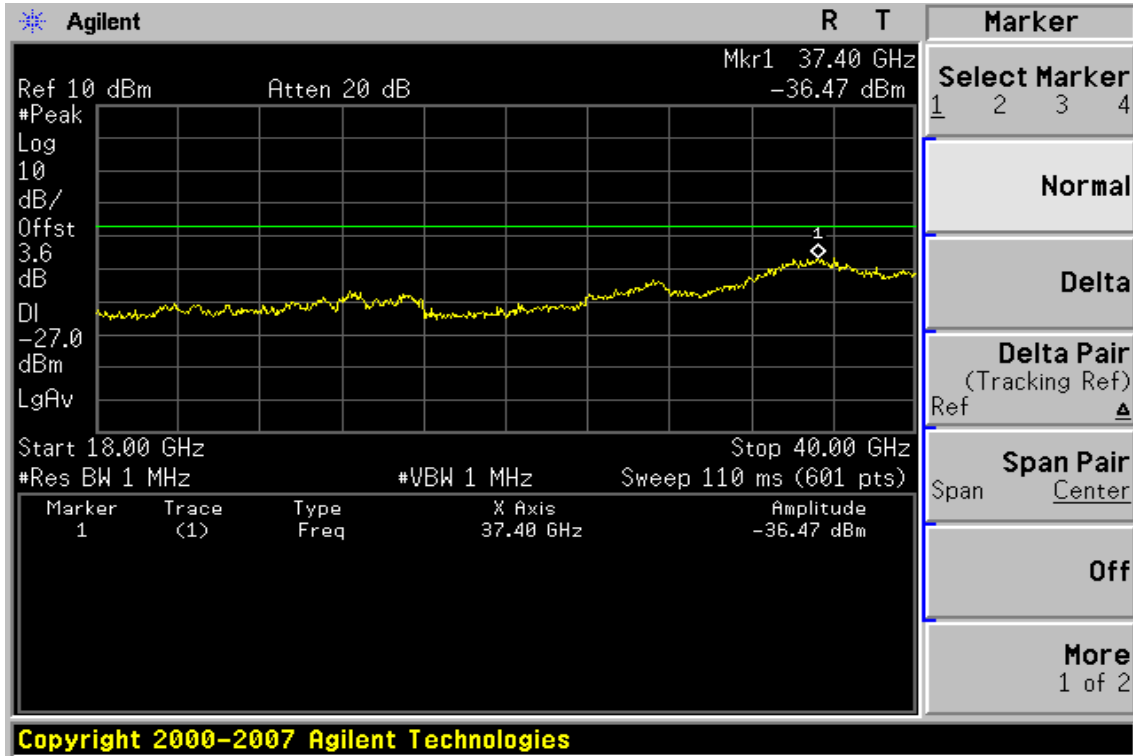


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Ch High 18GHz – 40GHz



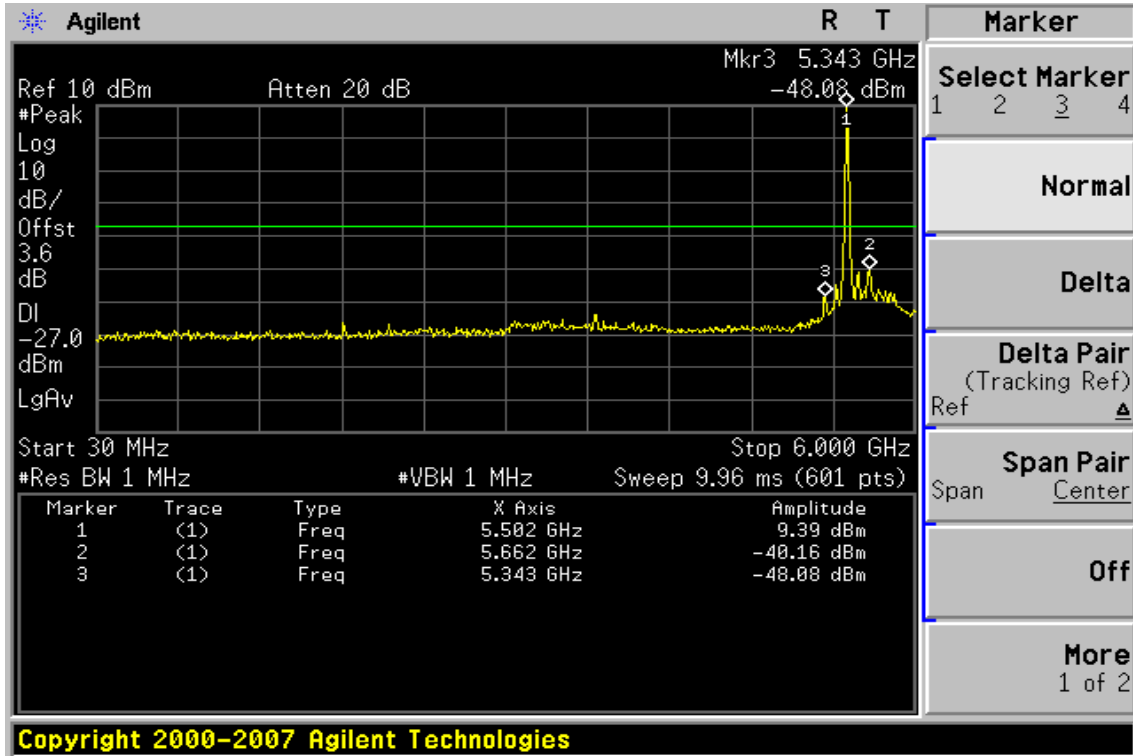
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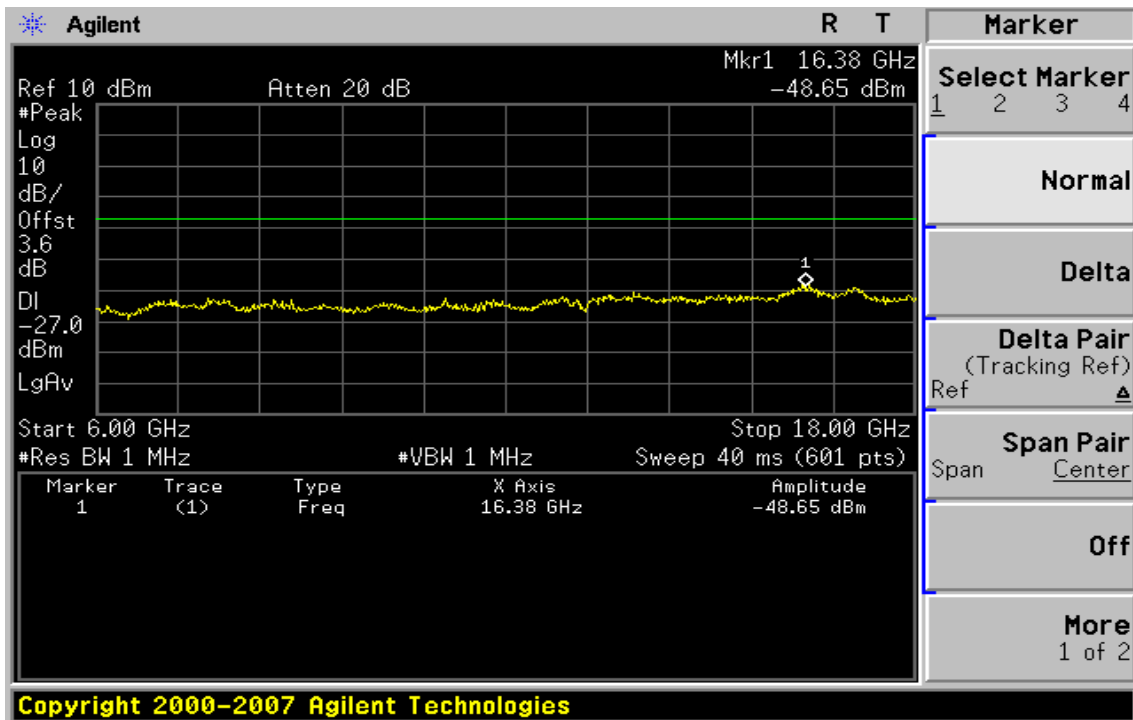
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UNII, 5470~5725 MHz

Ch Low 30MHz – 6GHz (5500 MHz)



Ch Low 6GHz – 18GHz

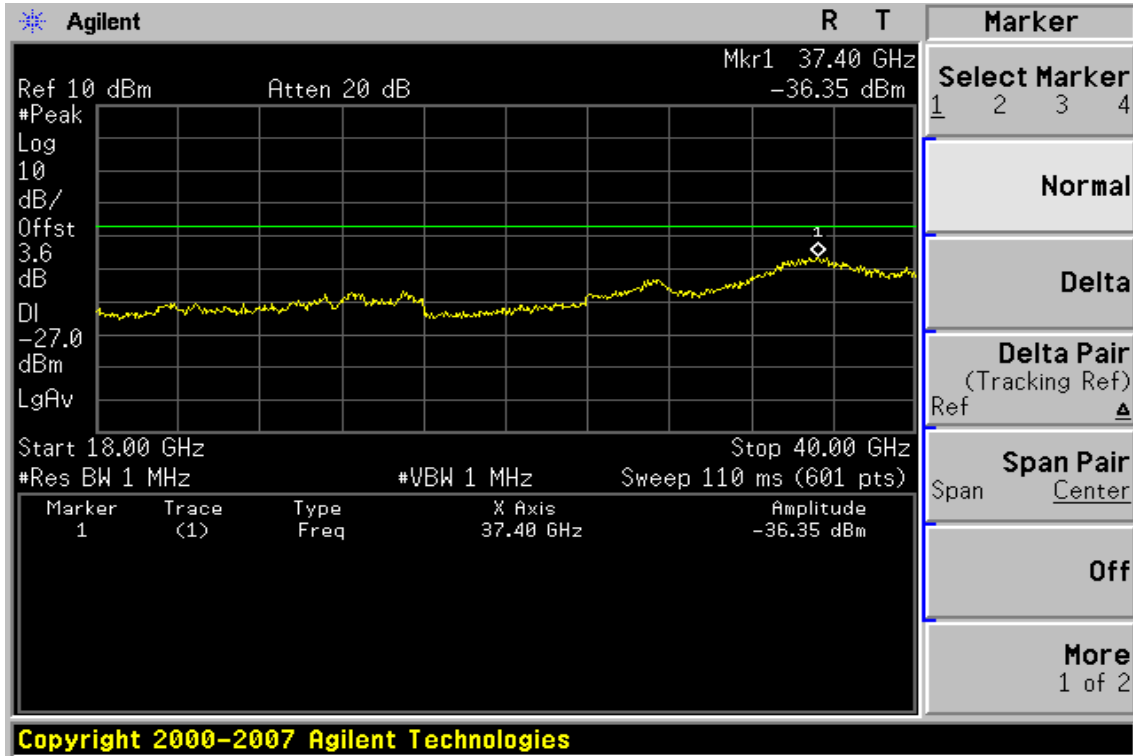


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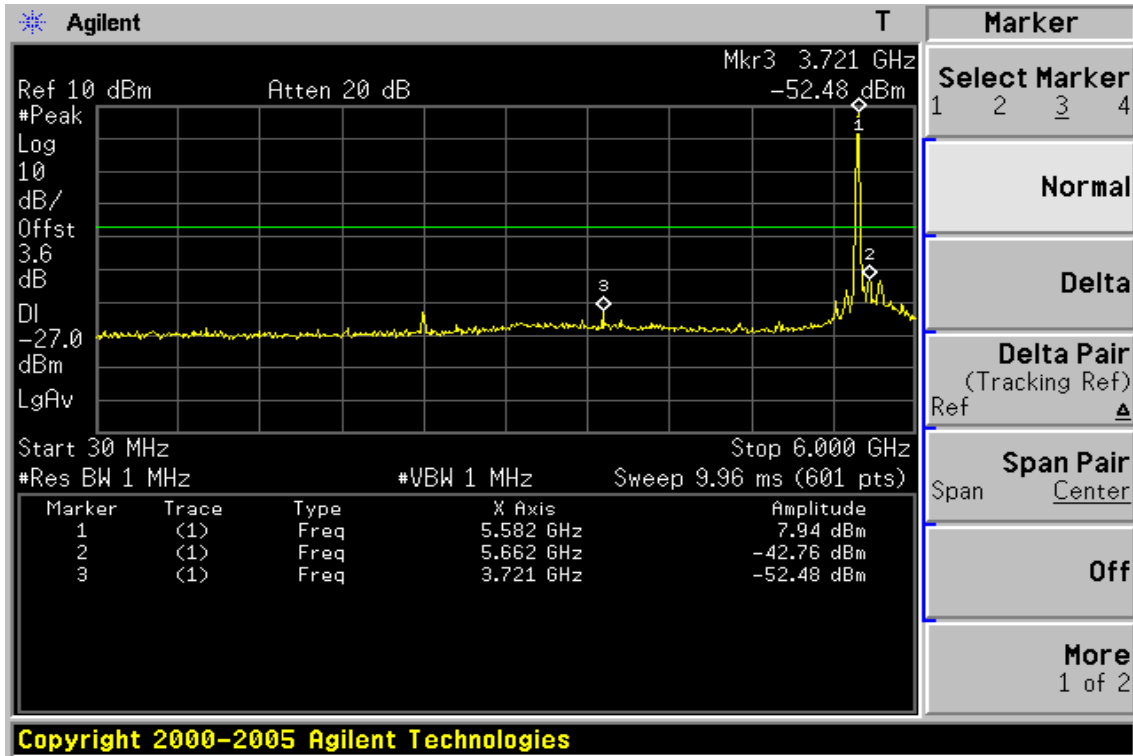
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5580 MHz)

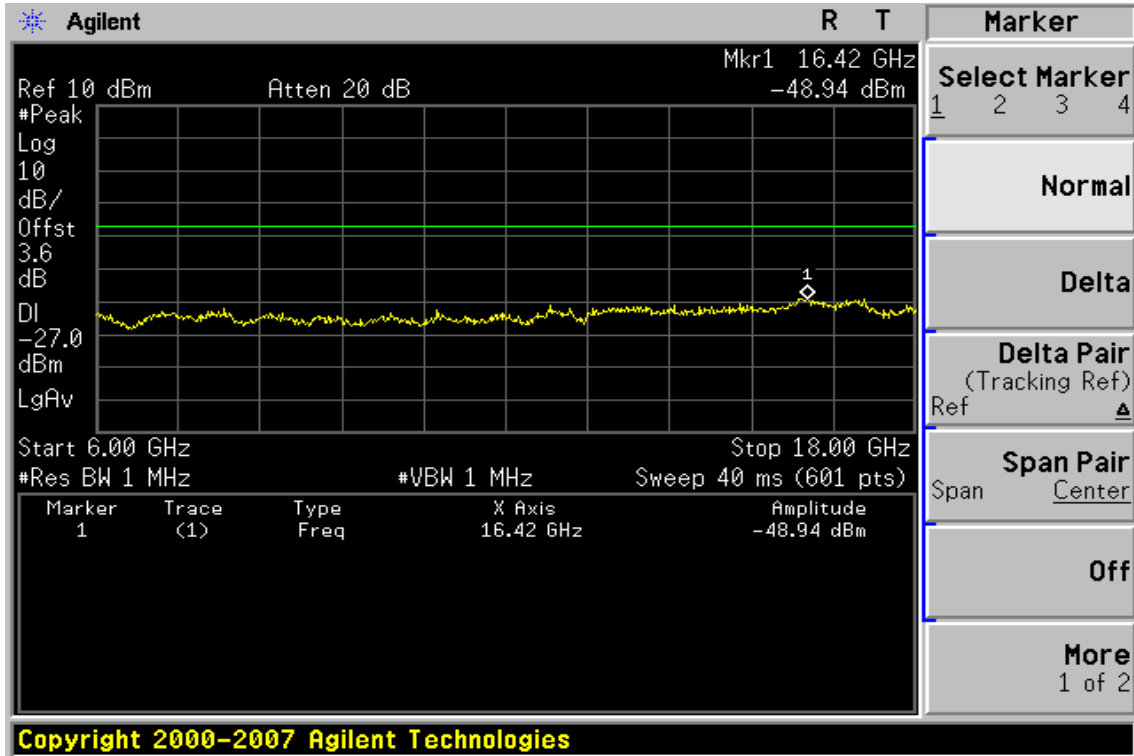


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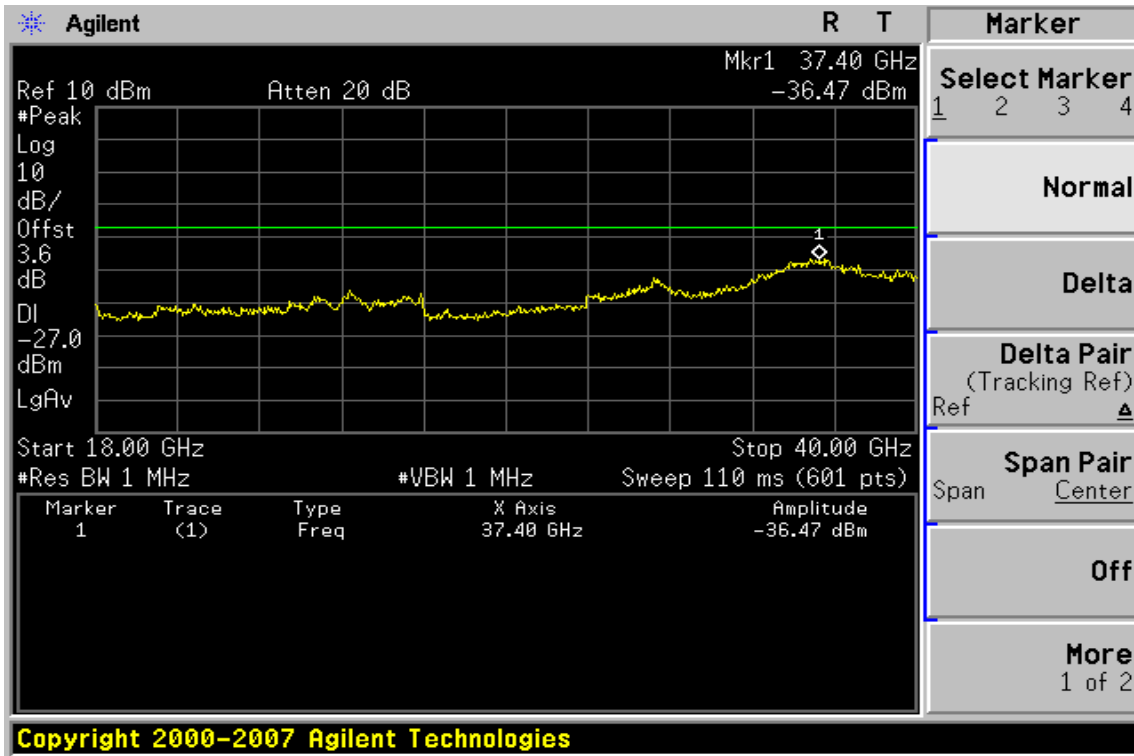
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

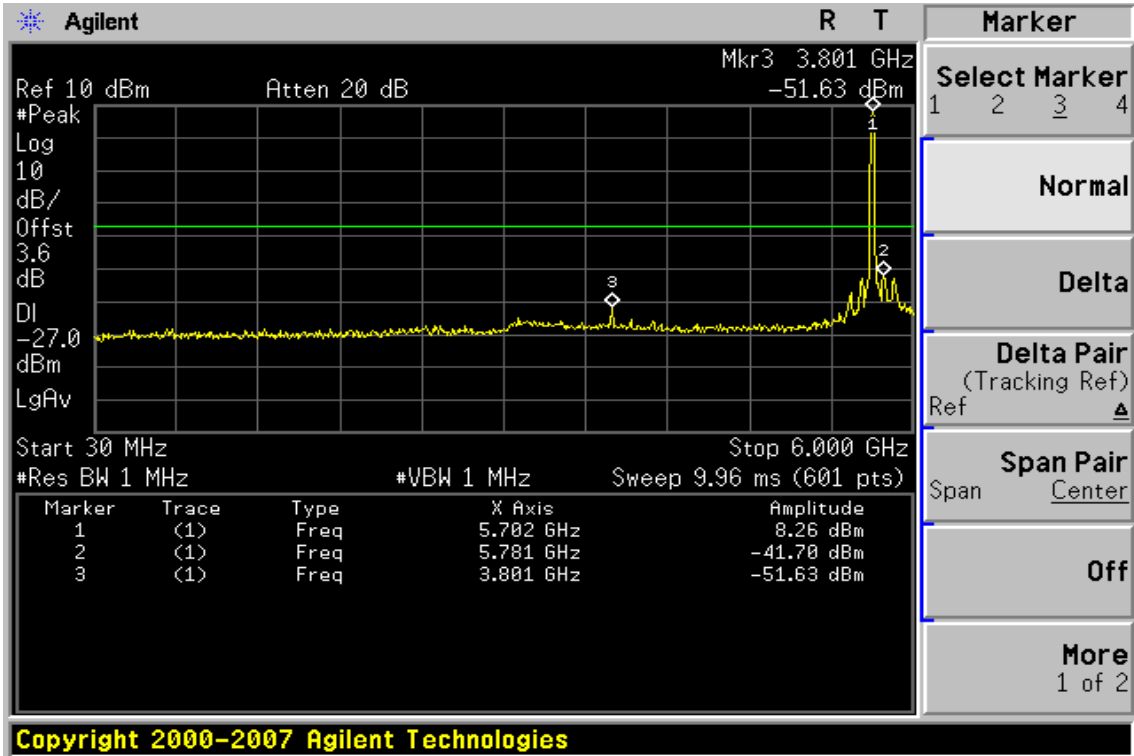


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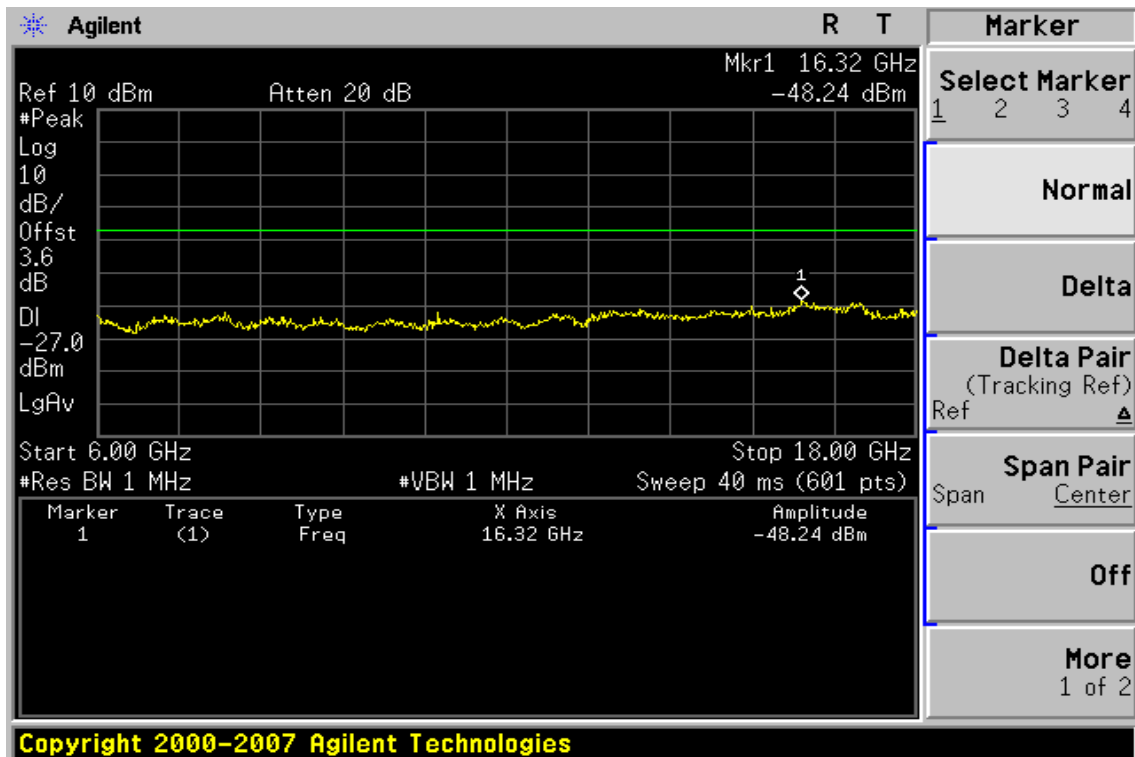
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz

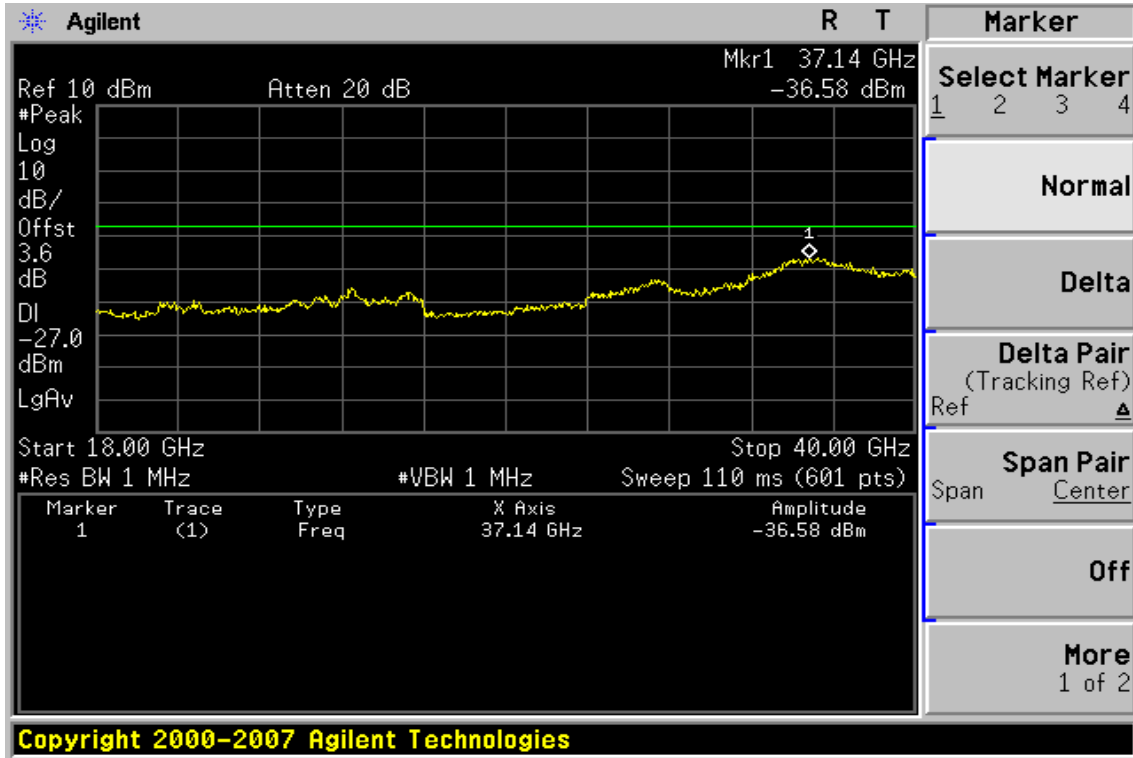


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Ch High 18GHz – 40GHz

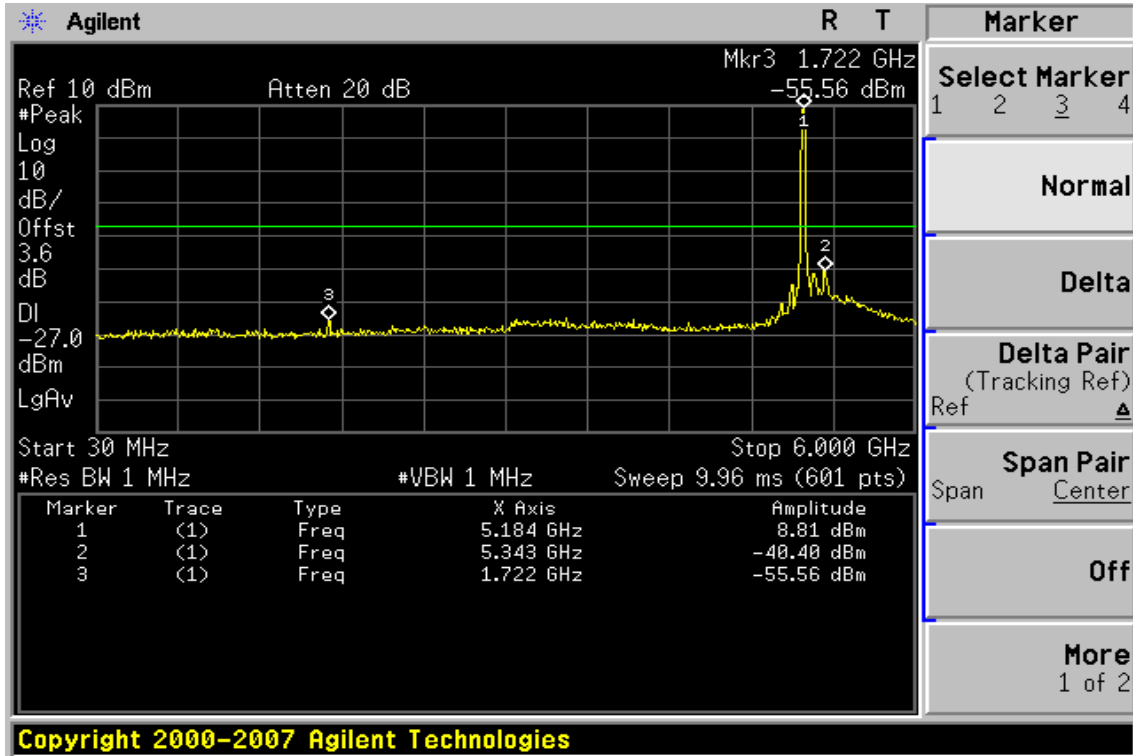


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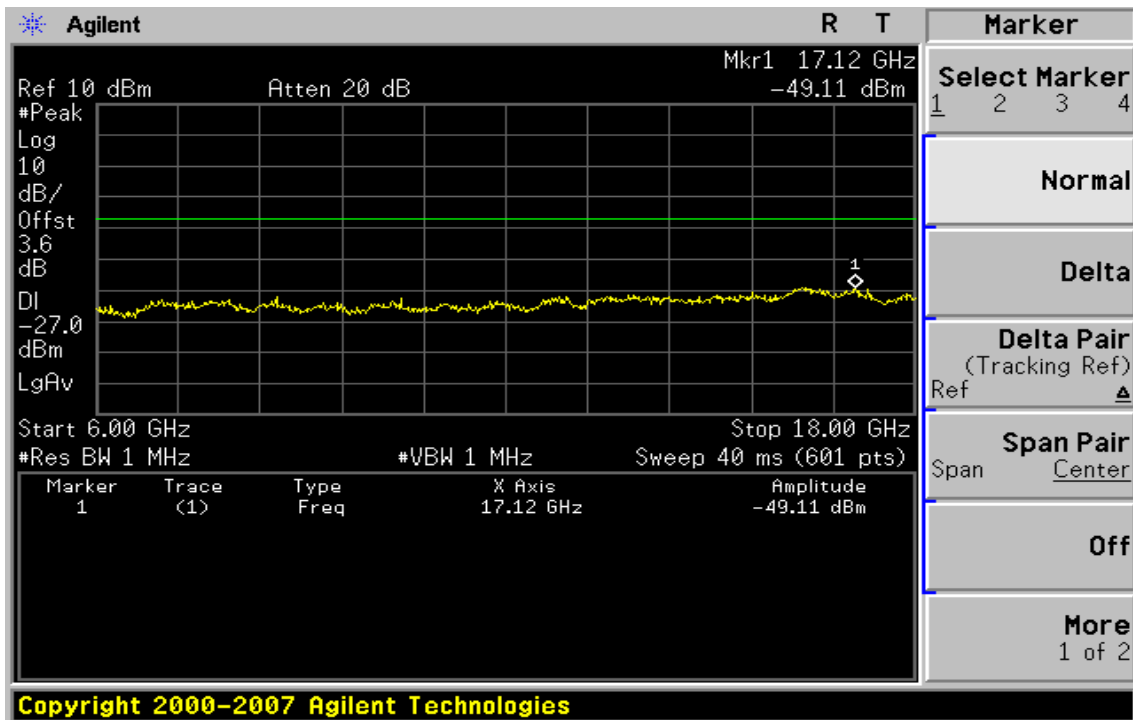
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UNII HT20, 5150~5250 MHz
Ch Low 30MHz – 6GHz (5180 MHz)



Ch Low 6GHz – 18GHz

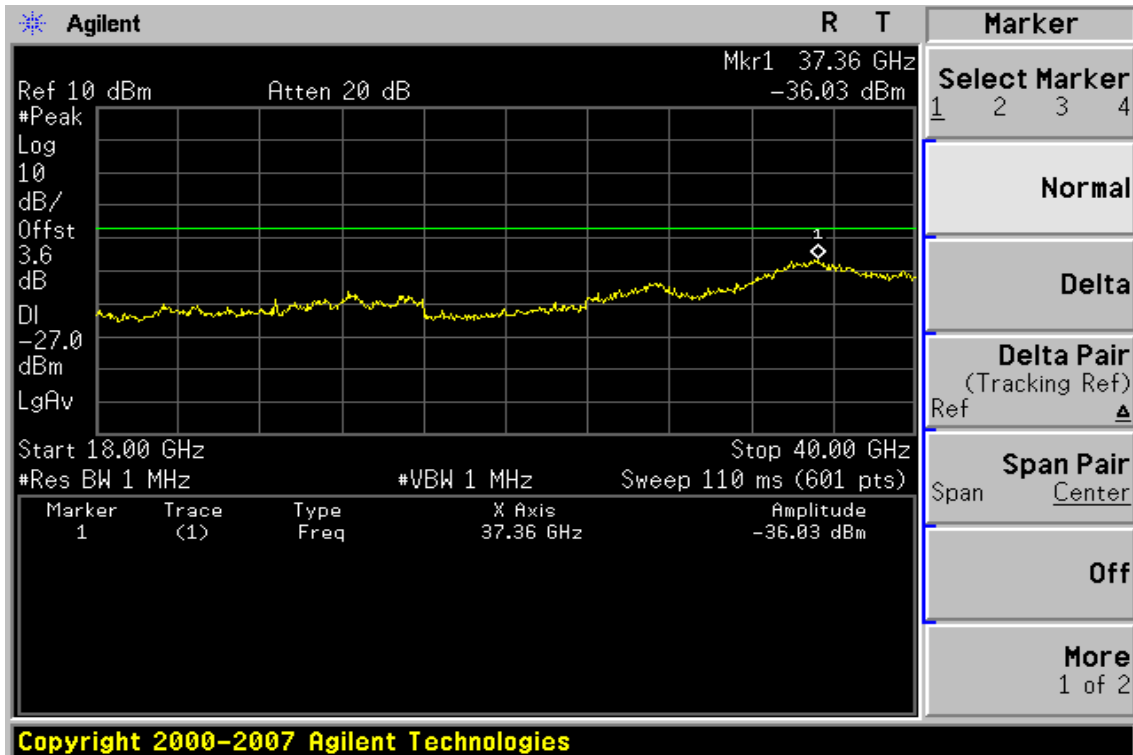


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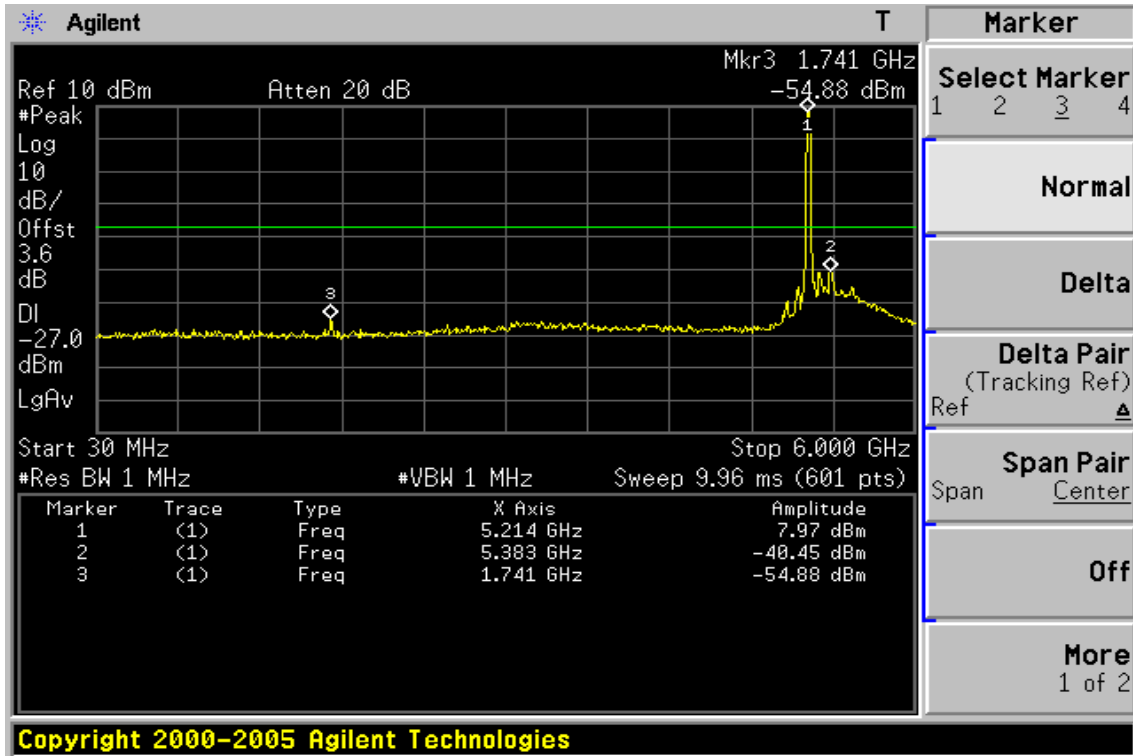
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5220 MHz)

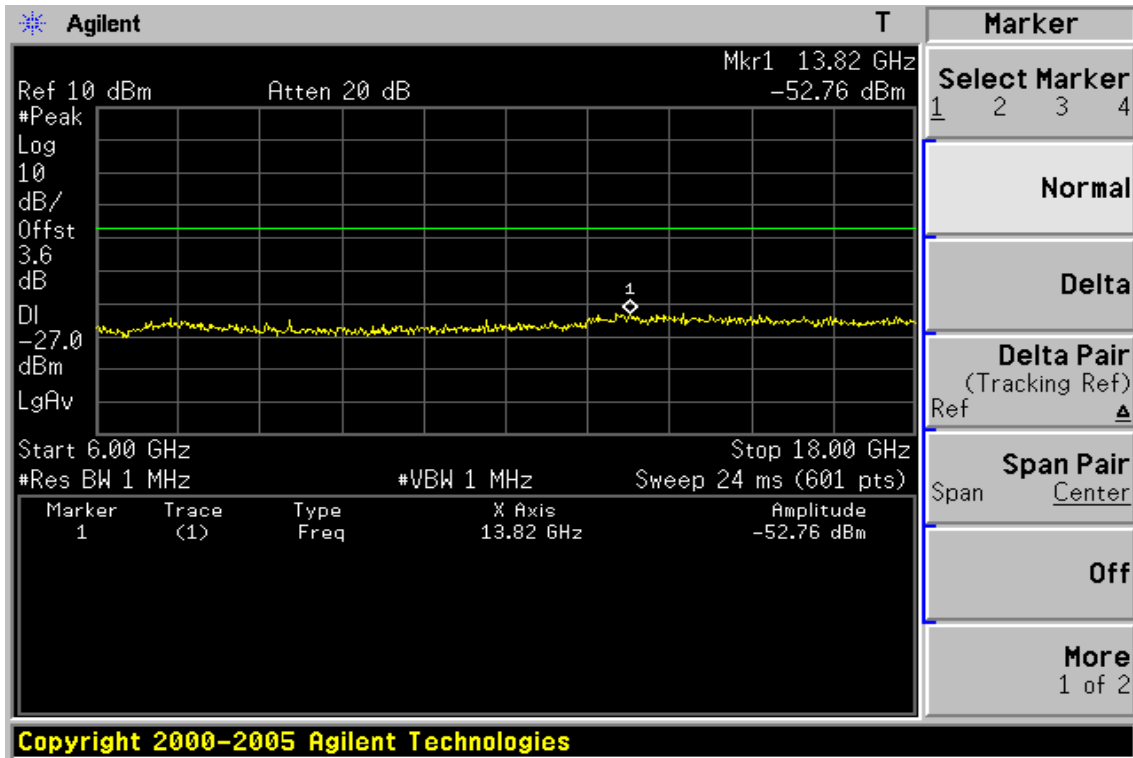


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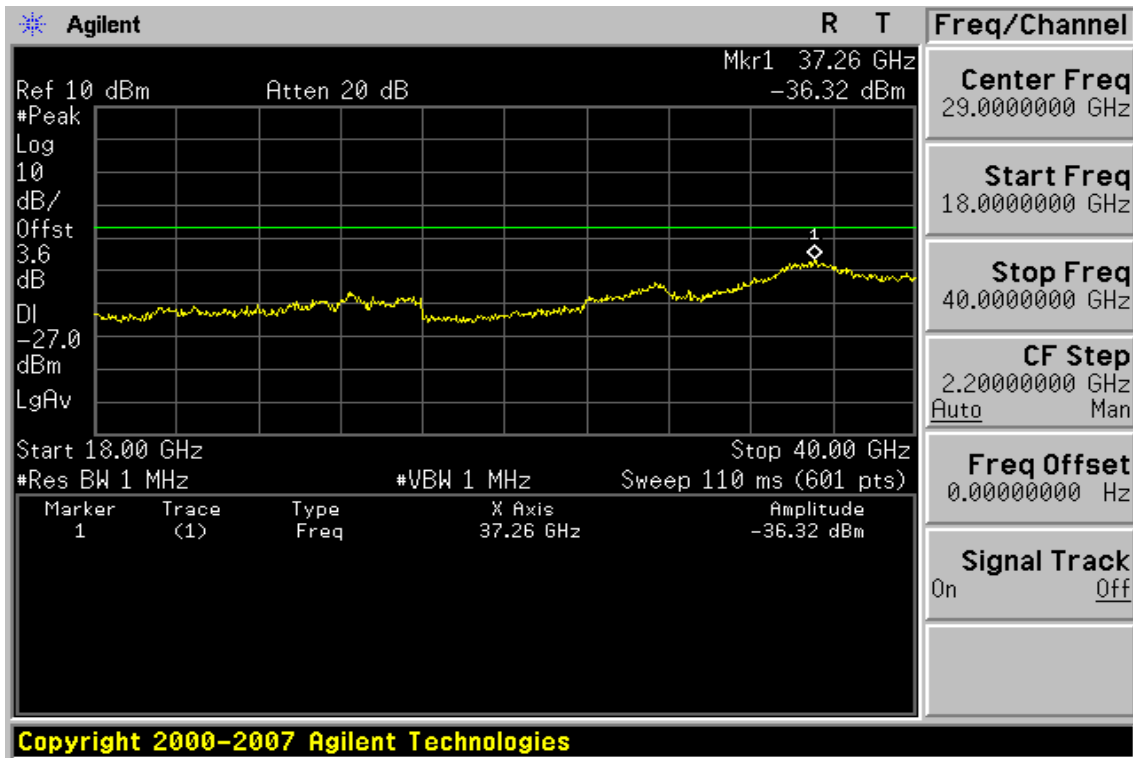
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

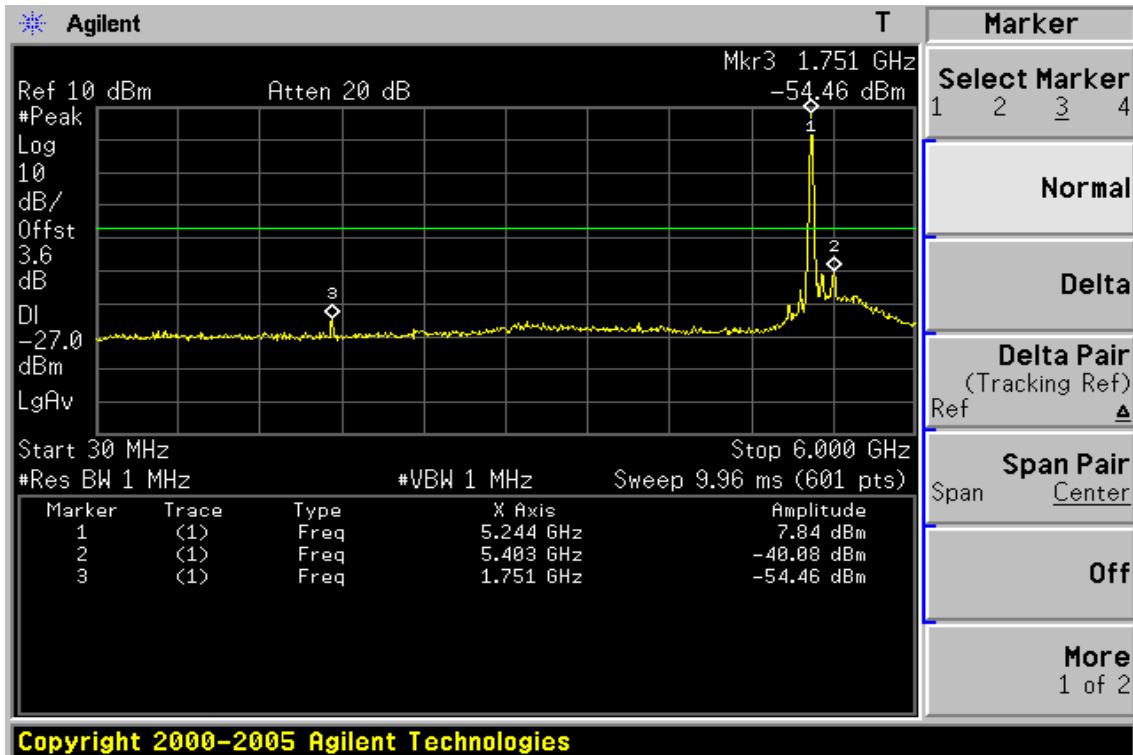


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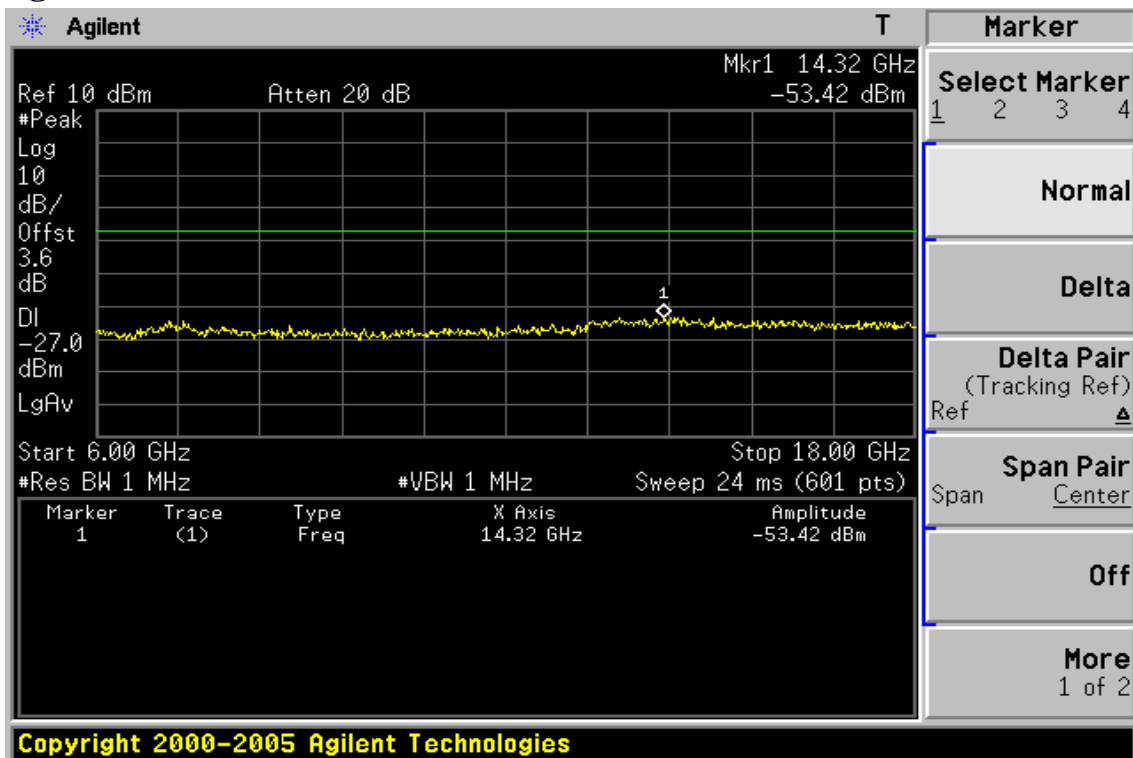
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Ch High 30MHz – 6GHz (5240 MHz)



Ch High 6GHz – 18GHz

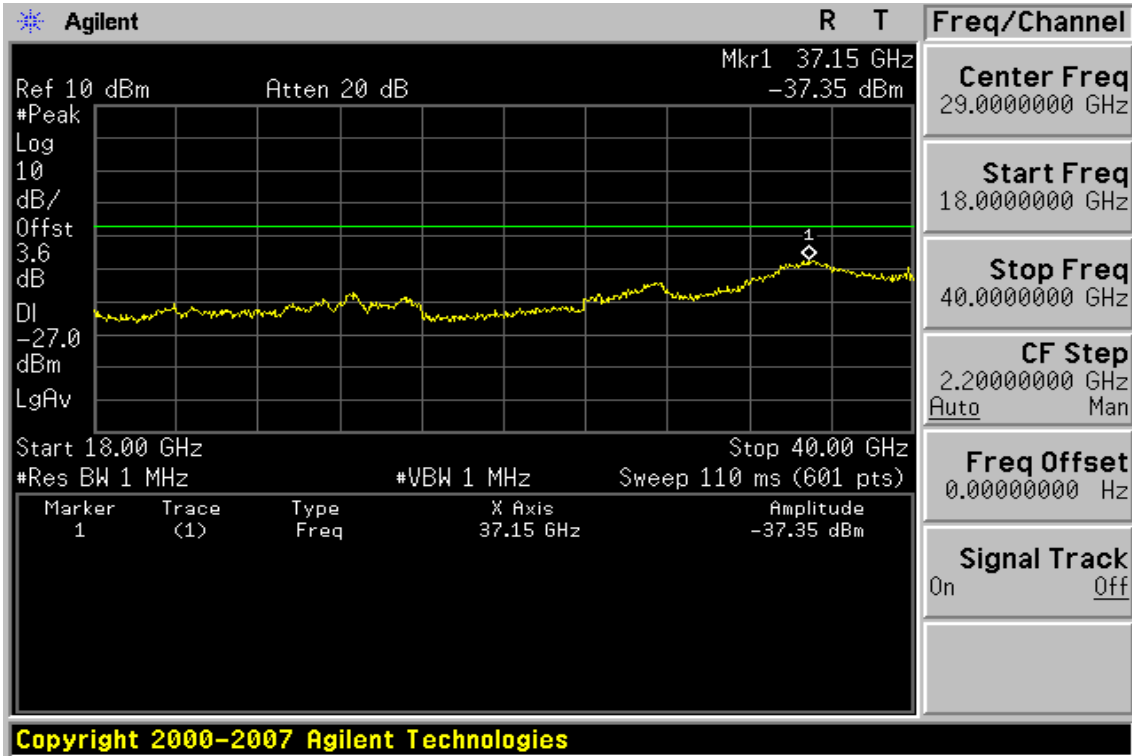


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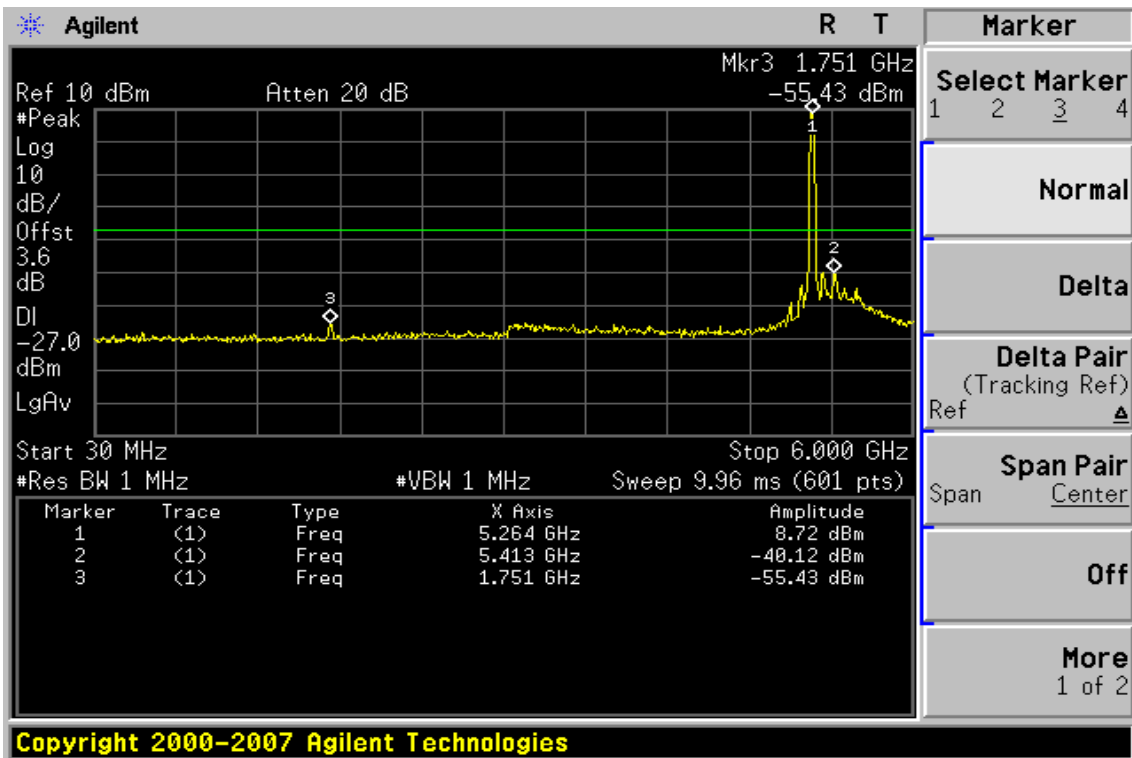
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Ch High 18GHz – 40GHz



UNII HT20, 5250~5350 MHz

Ch Low 30MHz – 6GHz (5260 MHz)

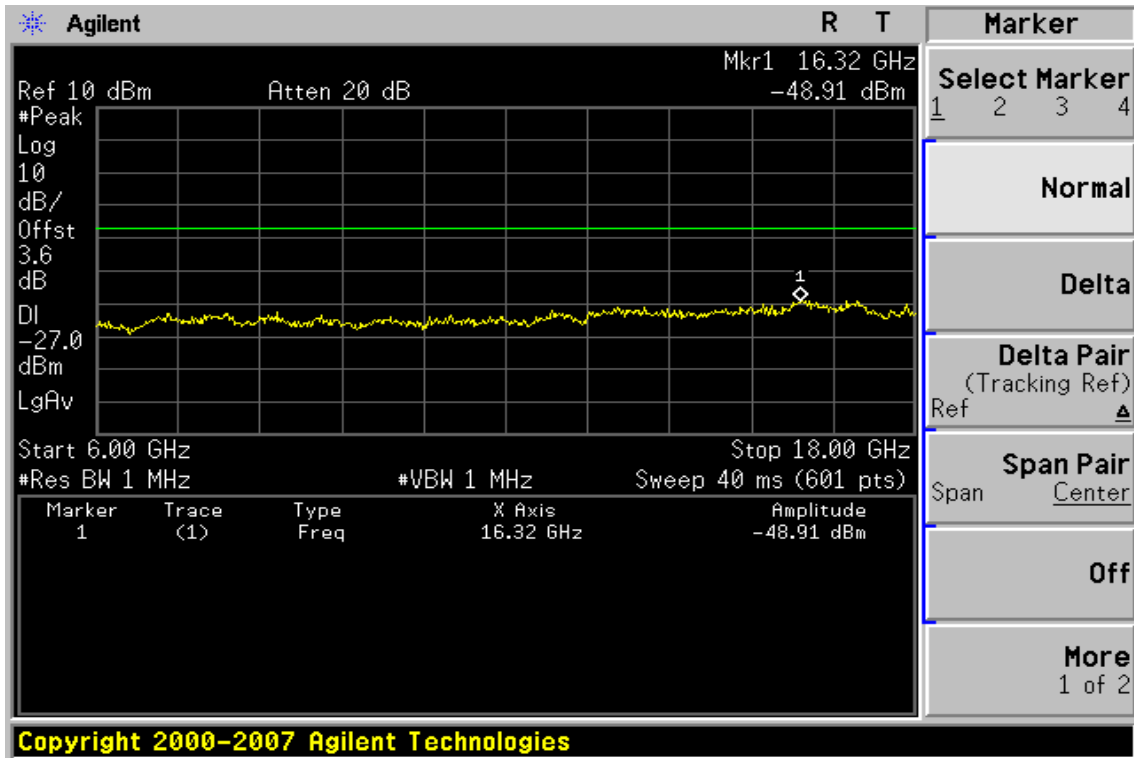


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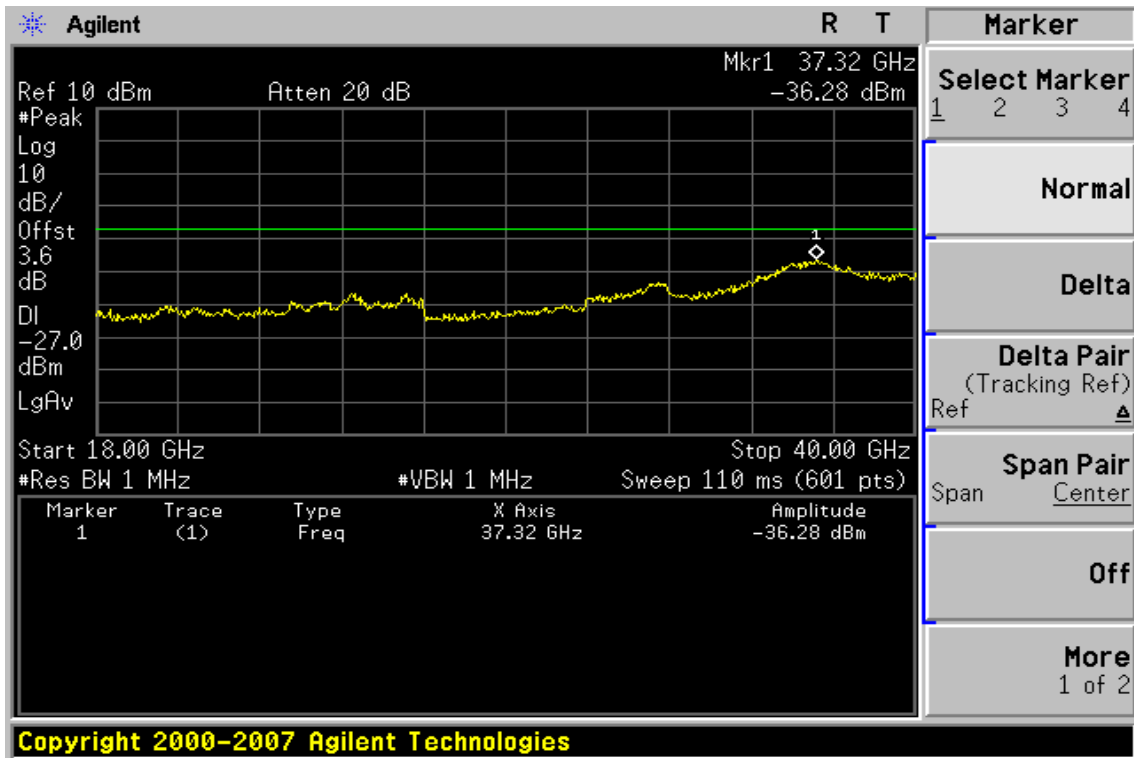
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz

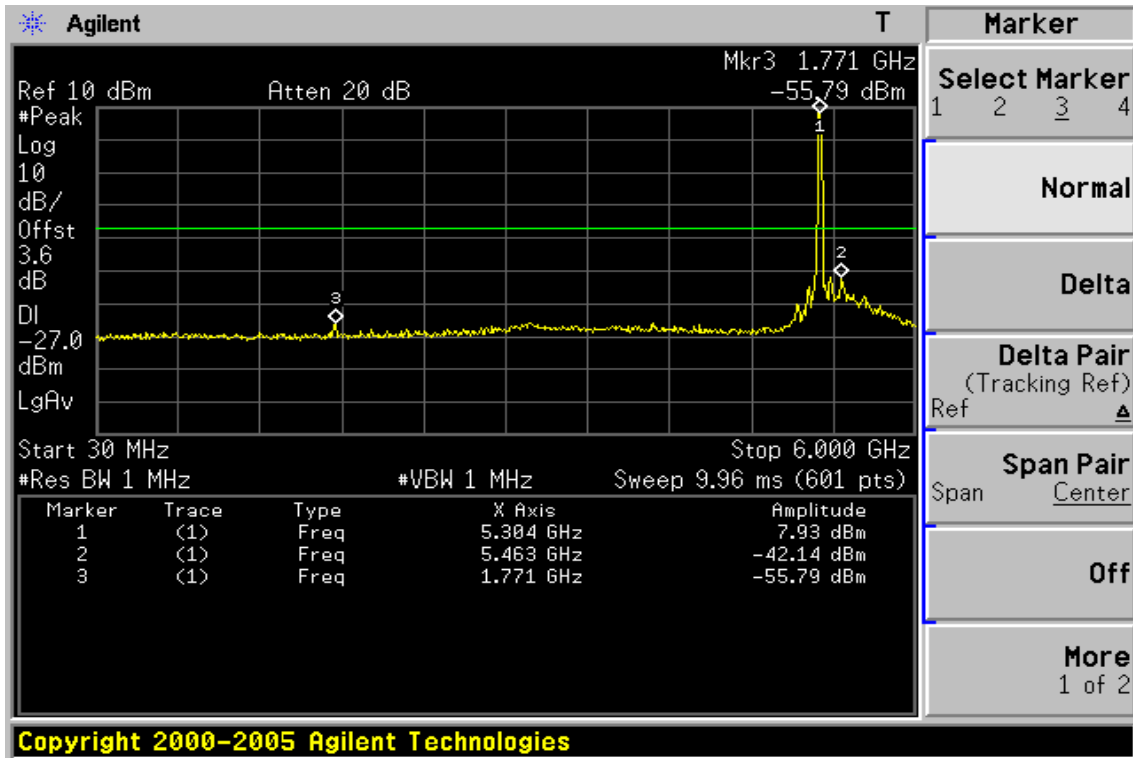


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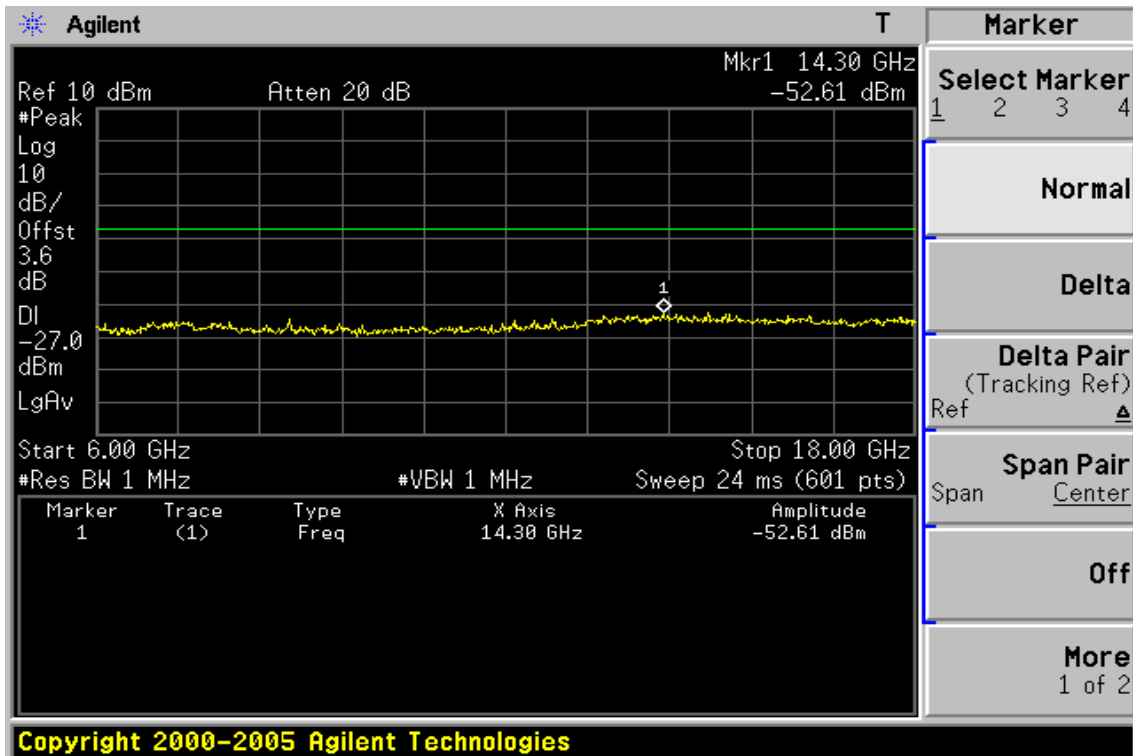
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Ch Mid 30MHz – 6GHz (5300 MHz)



Ch Mid 6GHz – 18GHz

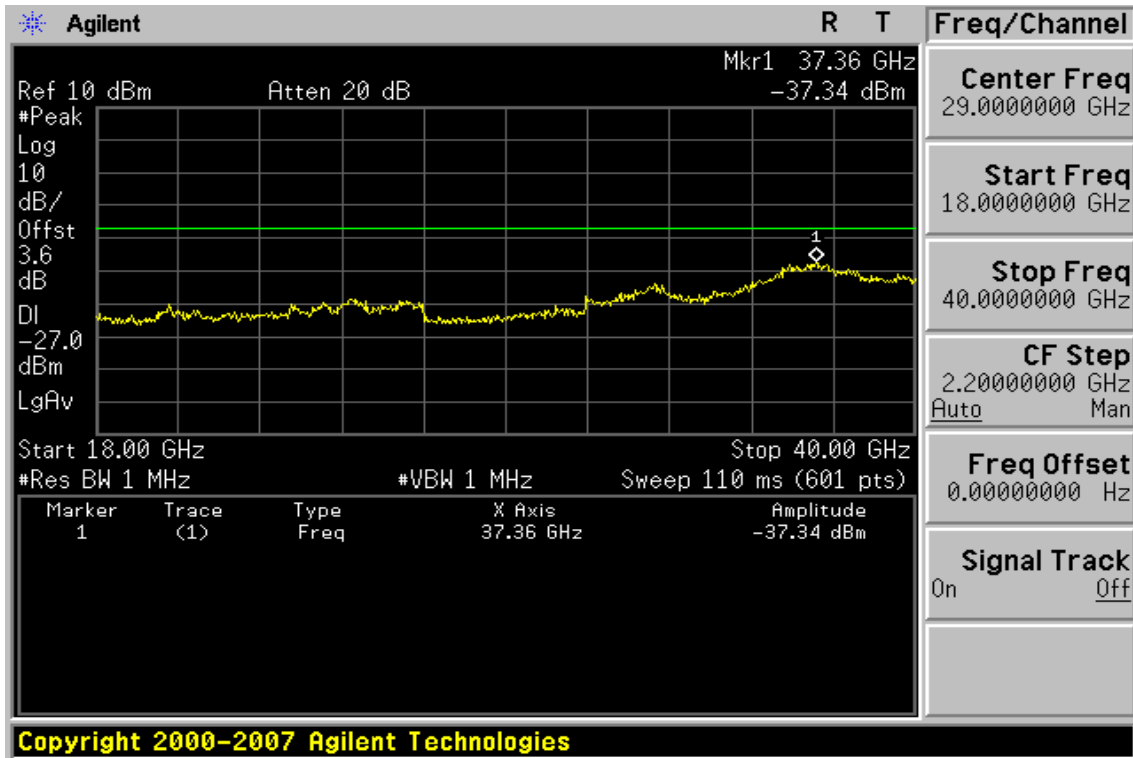


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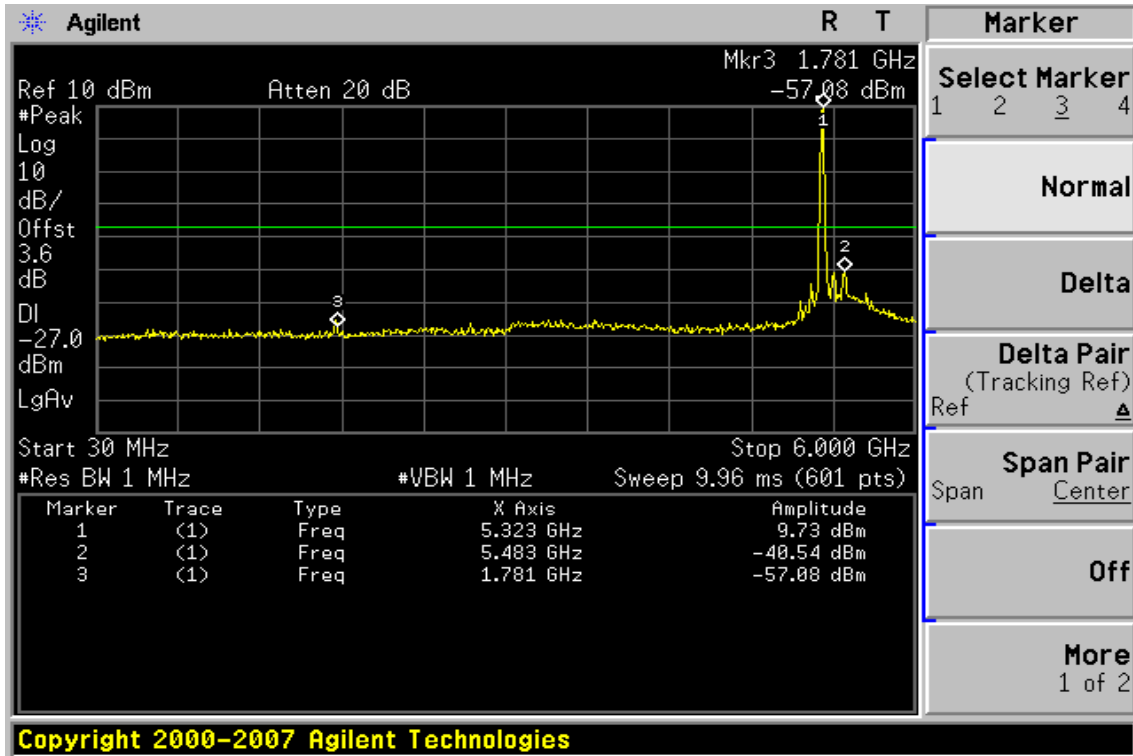
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Ch Mid 18GHz – 40GHz



Ch High 30MHz – 6GHz (5320 MHz)

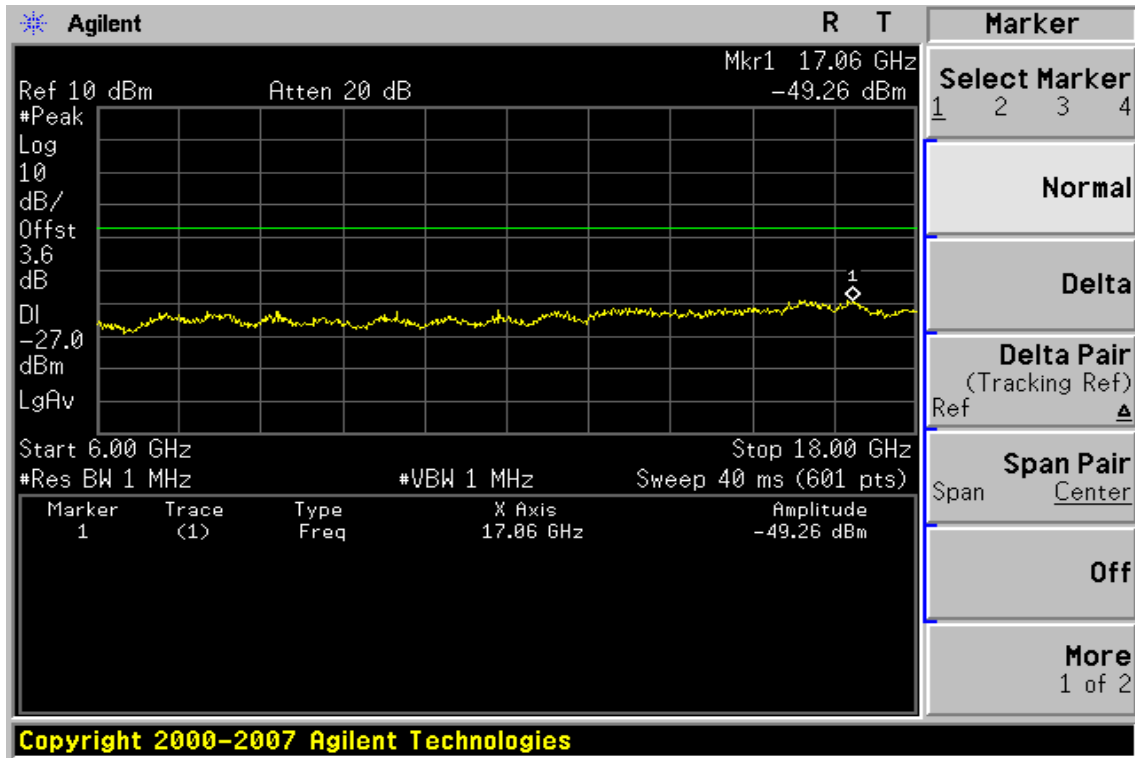


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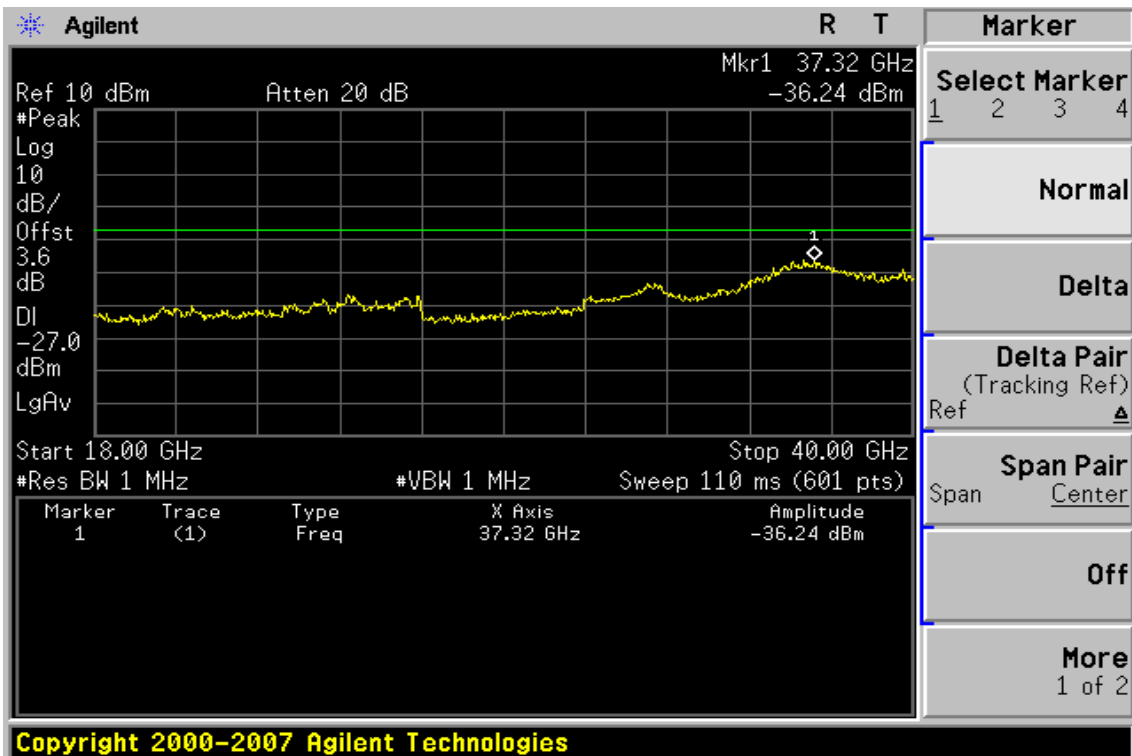
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz

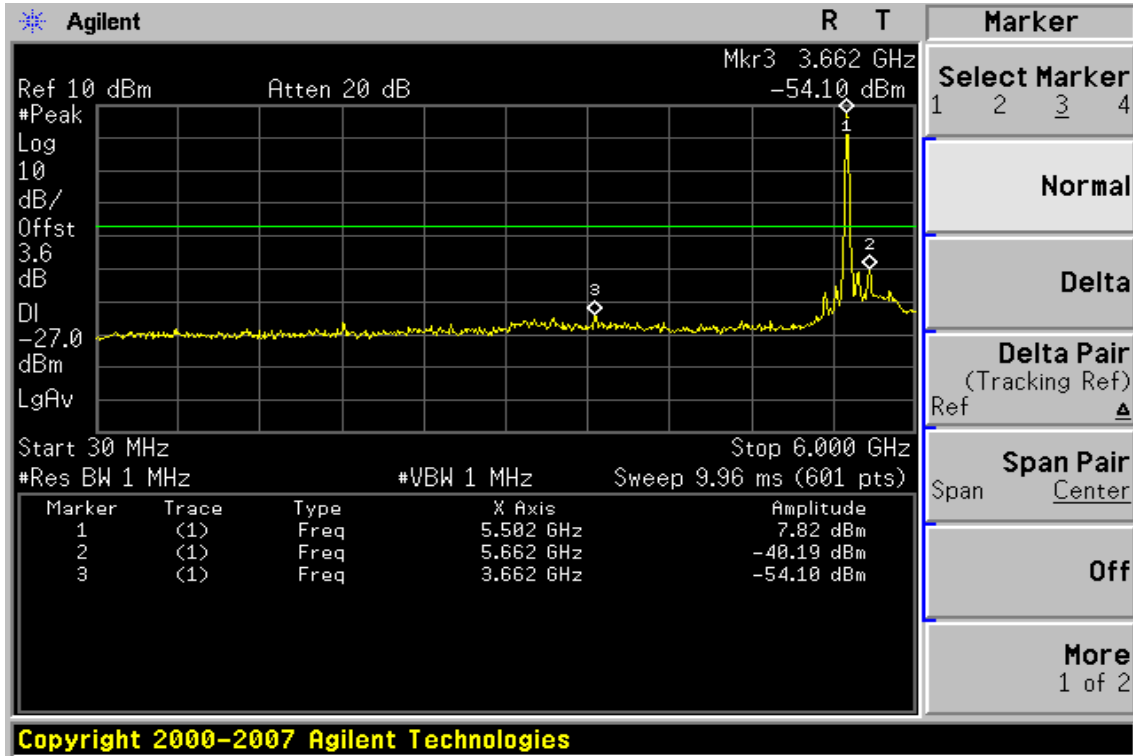


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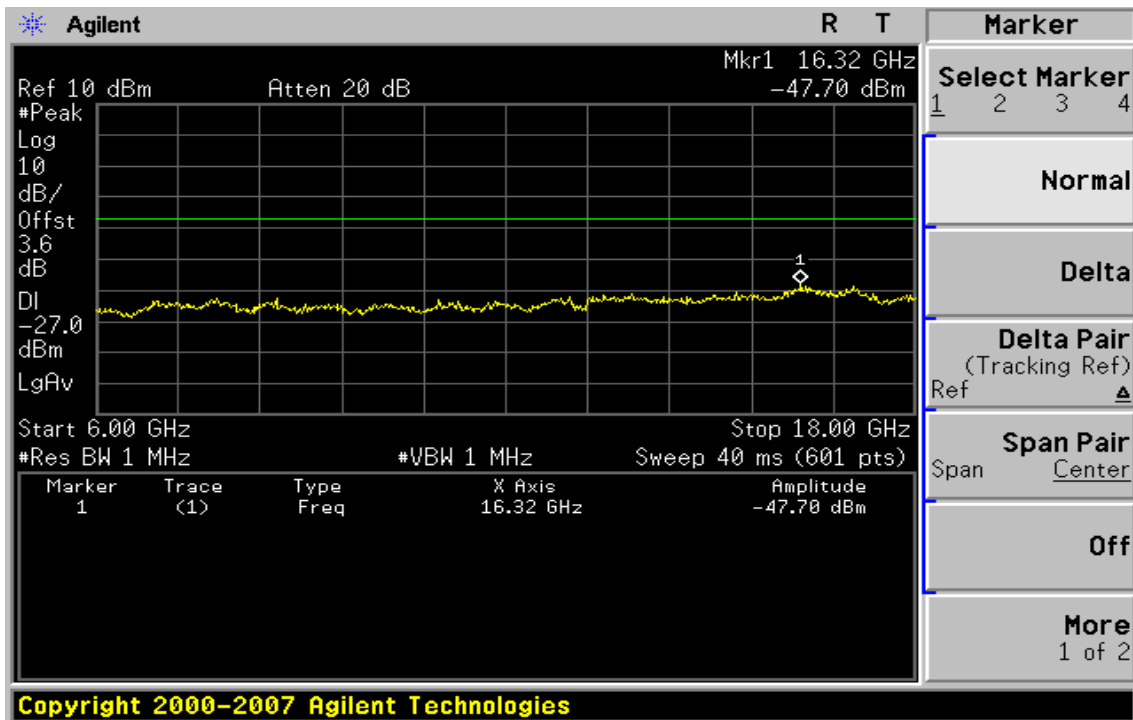
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UNII HT20, 5470~5725 MHz
Ch Low 30MHz – 6GHz (5500 MHz)



Ch Low 6GHz – 18GHz

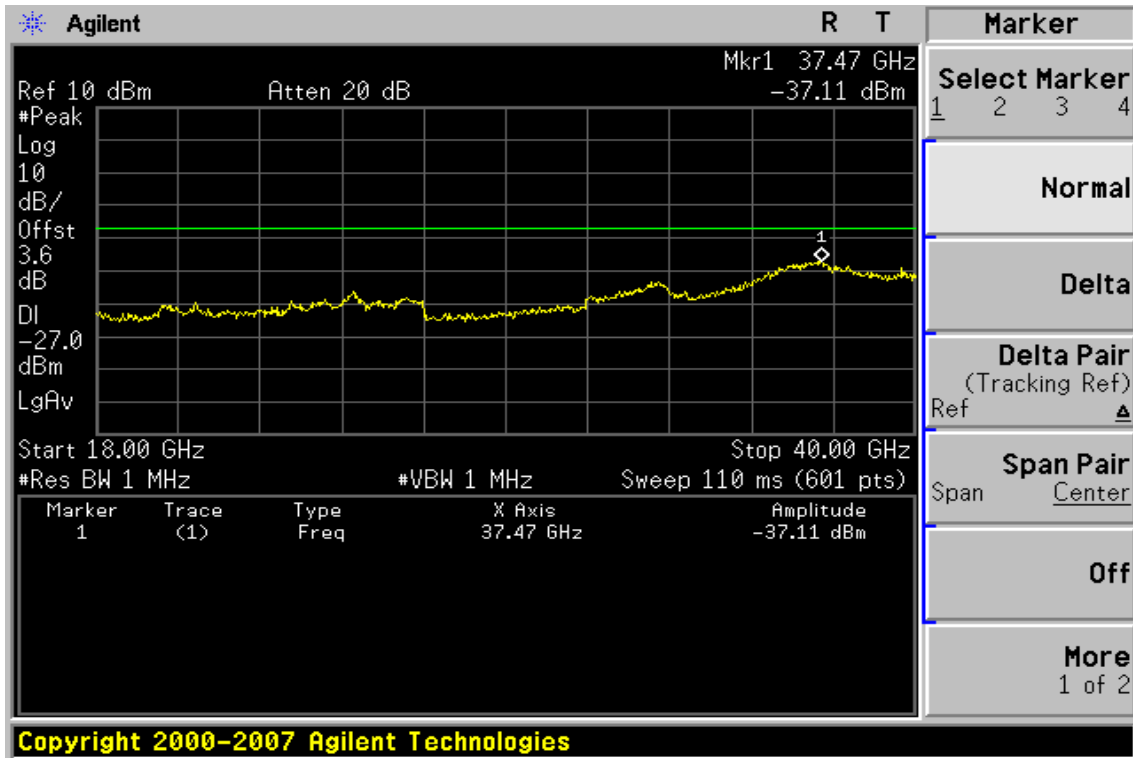


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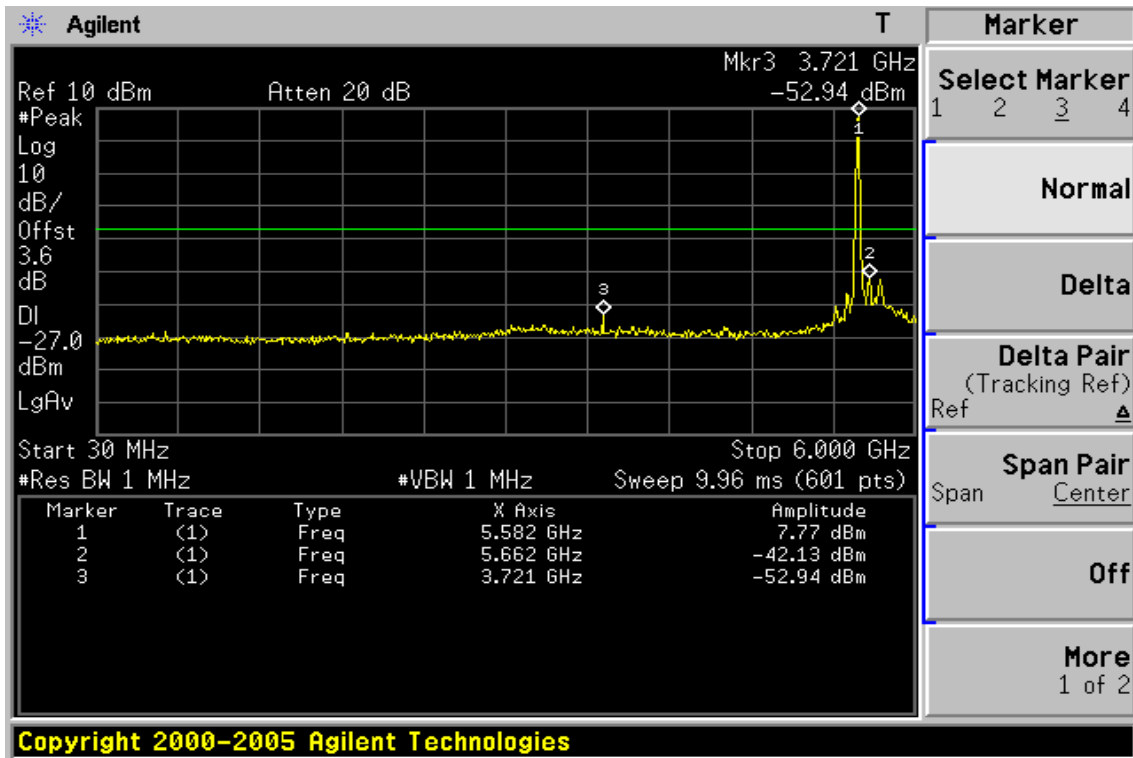
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5580 MHz)

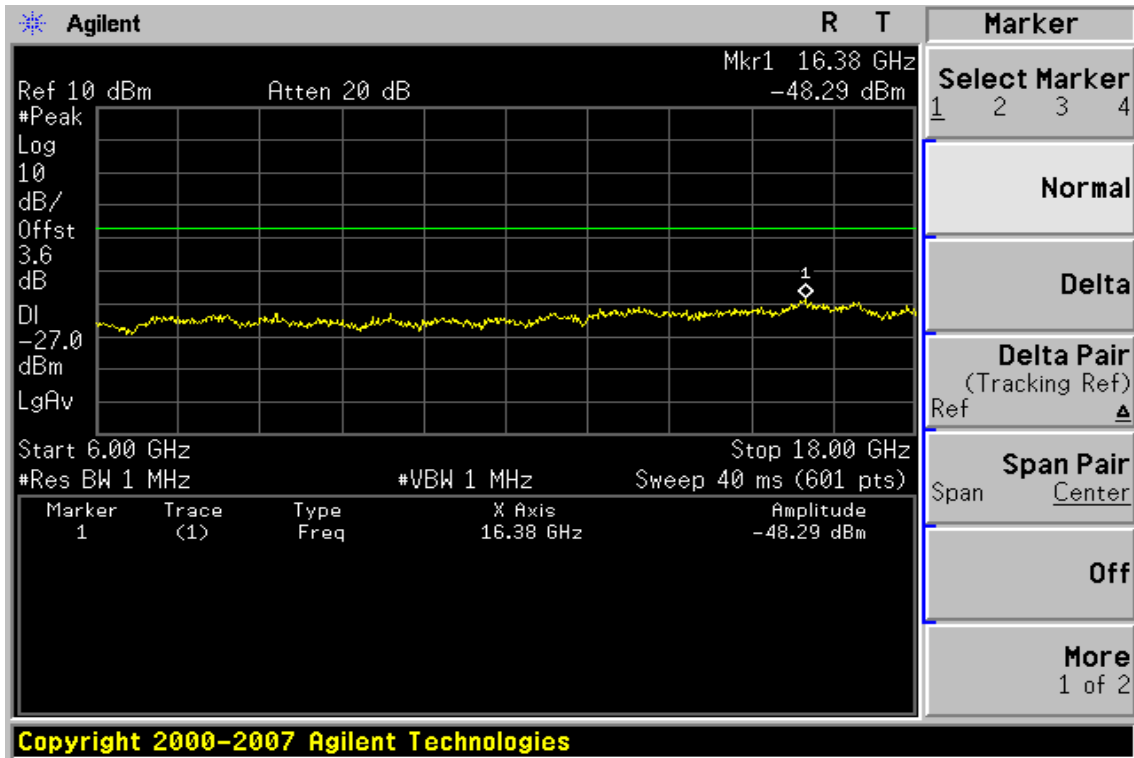


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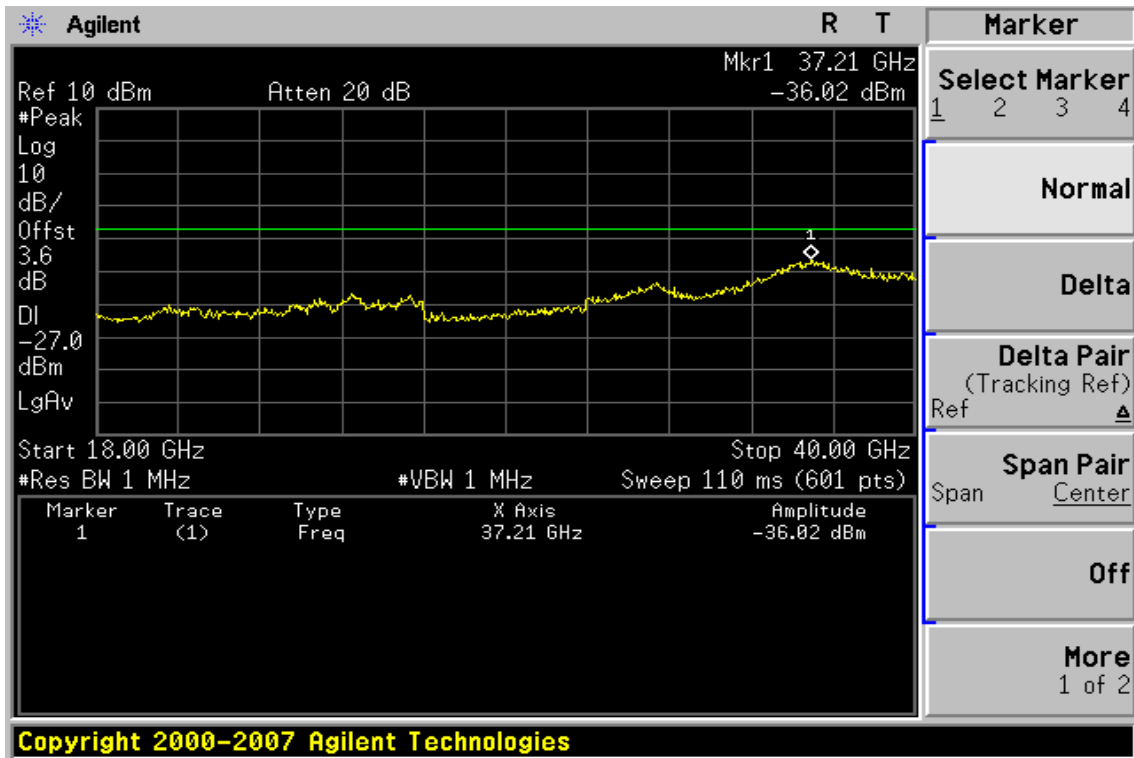
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

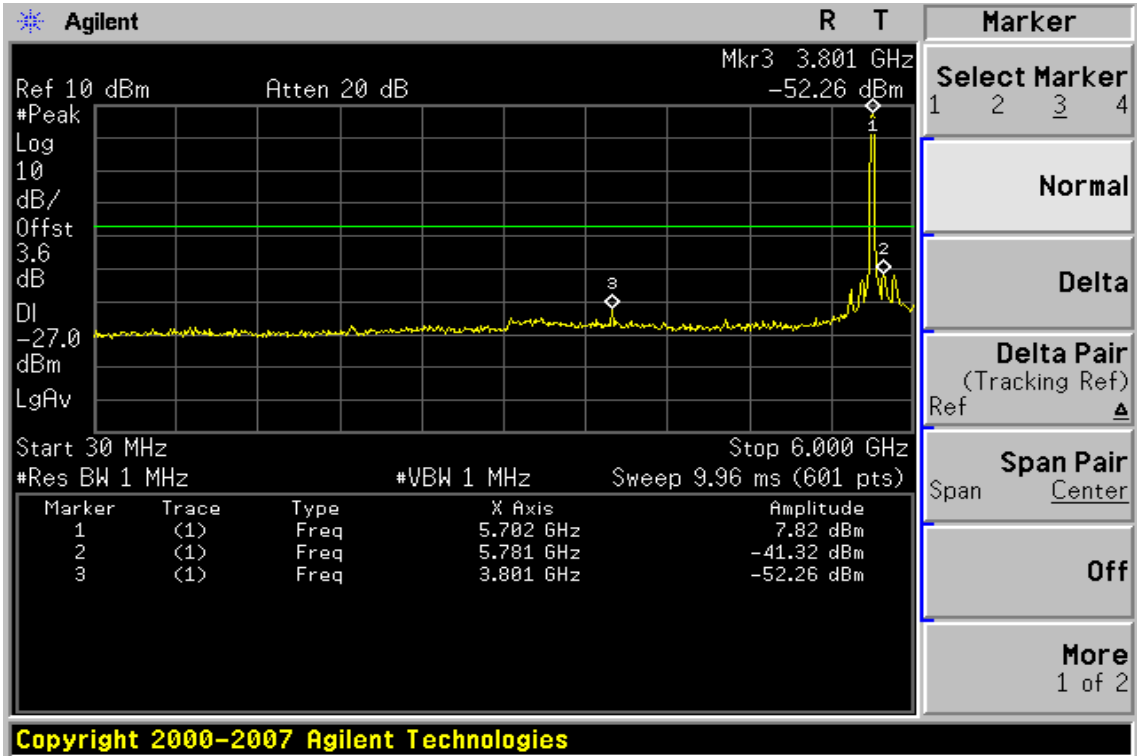


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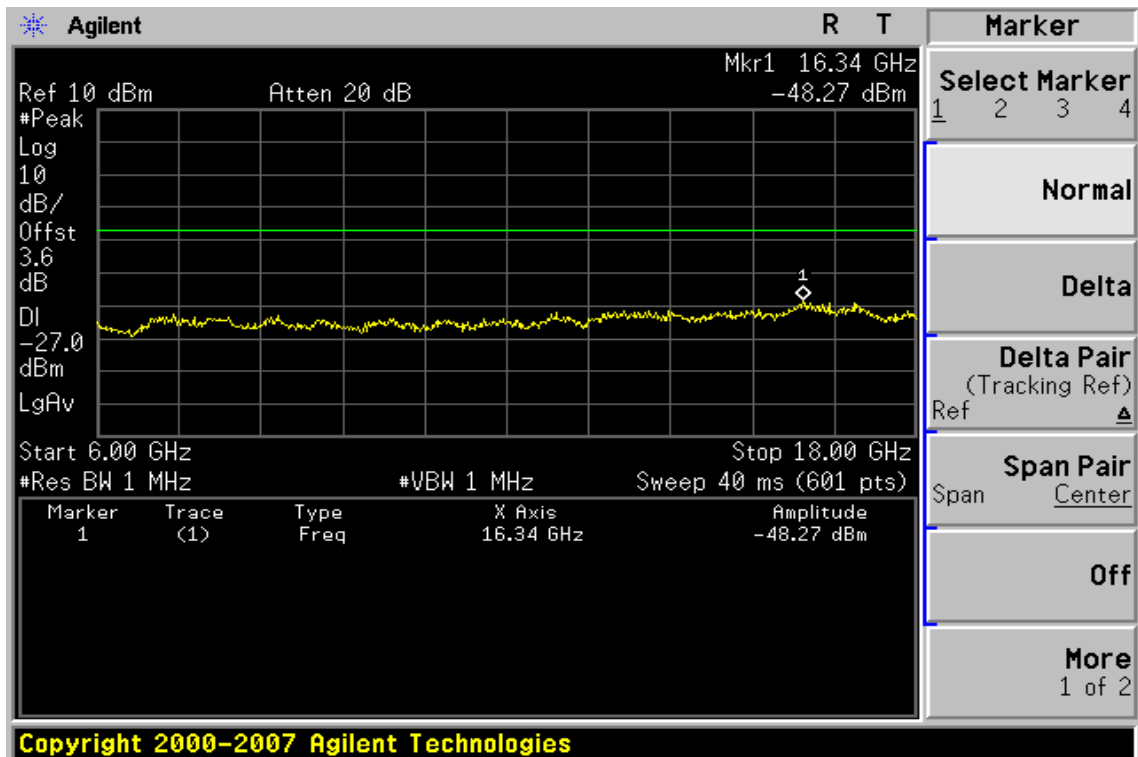
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz

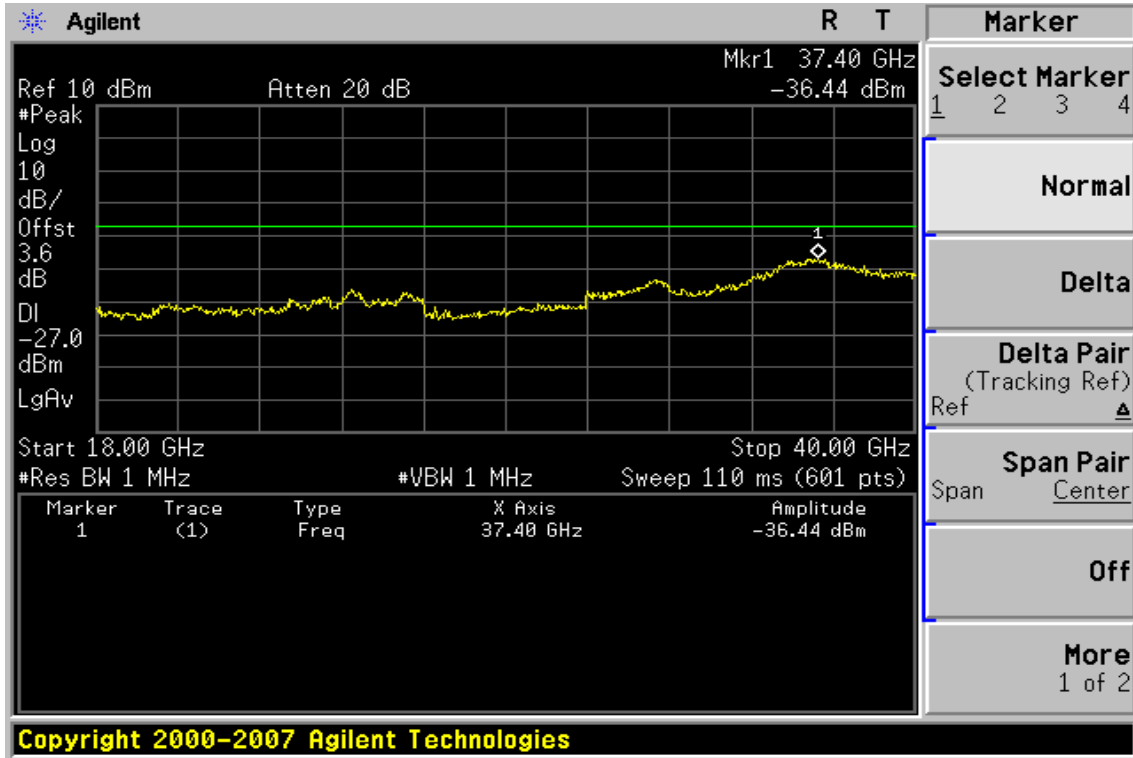


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Ch High 18GHz – 40GHz



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11. UNDESIRABLE EMISSION - RADICTED MEASUREMENT

11.1 Standard Applicable

According to §15.407(b),

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

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

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§15.205- RESTRICTED BANDS OF OPERATIONS

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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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 120Vac/60Hz power source.

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11.3 Measurement Procedure

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

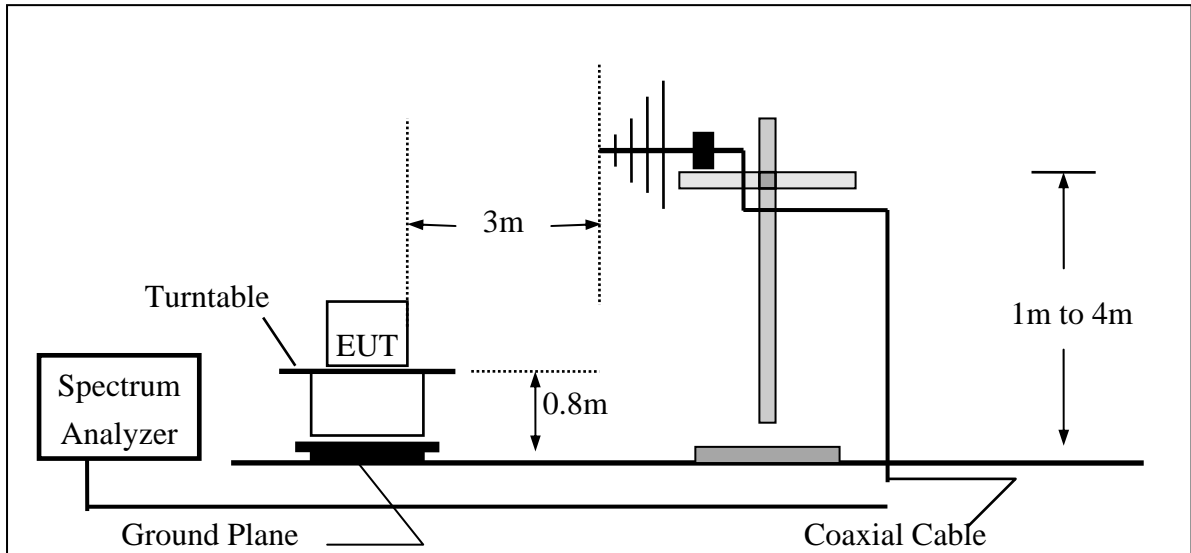
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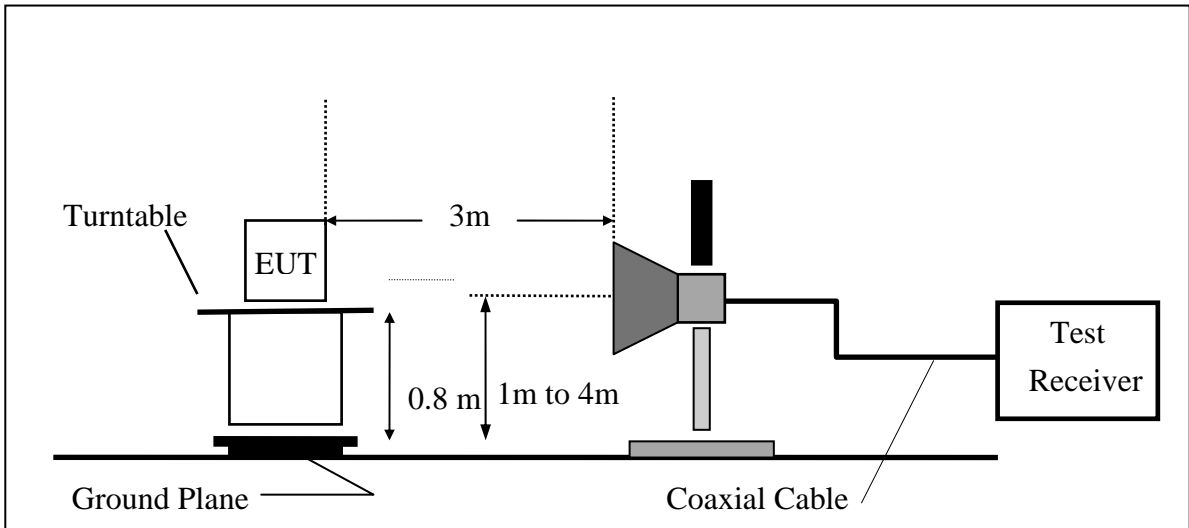
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11.4 Test SET-UP (Block Diagram of Configuration)

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



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



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11.5 Measurement Equipment Used:

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

11.6 Field Strength Calculation

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

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

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

11.7 Measurement Result

Refer to attach tabular data sheets.

NOTE:

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
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)
58.13	V	Peak	55.37	-26.35	29.02	40.00	-10.98
121.18	V	Peak	51.82	-28.59	23.23	43.50	-20.27
191.99	V	Peak	50.99	-30.89	20.10	43.50	-23.40
235.64	V	Peak	46.73	-30.01	16.72	46.00	-29.28
570.29	V	Peak	43.12	-23.30	19.82	46.00	-26.18
827.34	V	Peak	43.28	-19.68	23.60	46.00	-22.40
61.04	H	Peak	55.04	-26.90	28.14	40.00	-11.86
128.94	H	Peak	52.63	-28.15	24.48	43.50	-19.02
245.34	H	Peak	54.14	-29.84	24.30	46.00	-21.70
400.54	H	Peak	45.80	-26.02	19.78	46.00	-26.22
715.79	H	Peak	44.73	-20.95	23.78	46.00	-22.22
950.53	H	Peak	44.39	-18.09	26.30	46.00	-19.70

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
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)
58.13	V	Peak	55.42	-26.35	29.07	40.00	-10.93
135.73	V	Peak	51.00	-27.75	23.25	43.50	-20.25
232.73	V	Peak	49.55	-30.10	19.45	46.00	-26.55
315.18	V	Peak	47.36	-28.01	19.35	46.00	-26.65
400.54	V	Peak	45.30	-26.02	19.28	46.00	-26.72
780.78	V	Peak	45.14	-20.08	25.06	46.00	-20.94
126.03	H	Peak	51.12	-28.26	22.86	43.50	-20.64
155.13	H	Peak	49.78	-27.00	22.78	43.50	-20.72
250.19	H	Peak	51.43	-29.83	21.60	46.00	-24.40
470.38	H	Peak	44.27	-24.91	19.36	46.00	-26.64
609.09	H	Peak	44.29	-22.52	21.77	46.00	-24.23
807.94	H	Peak	44.10	-19.81	24.29	46.00	-21.71

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
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)
43.58	V	Peak	54.74	-25.44	29.30	40.00	-10.70
133.79	V	Peak	51.19	-27.90	23.29	43.50	-20.21
227.88	V	Peak	50.21	-30.26	19.95	46.00	-26.05
315.18	V	Peak	47.14	-28.01	19.13	46.00	-26.87
400.54	V	Peak	44.81	-26.02	18.79	46.00	-27.21
572.23	V	Peak	43.73	-23.27	20.46	46.00	-25.54
36.79	H	Peak	56.27	-25.66	30.61	40.00	-9.39
153.19	H	Peak	49.21	-26.99	22.22	43.50	-21.28
208.48	H	Peak	53.44	-31.33	22.11	43.50	-21.39
261.83	H	Peak	50.72	-29.57	21.15	46.00	-24.85
397.63	H	Peak	44.76	-26.05	18.71	46.00	-27.29
807.94	H	Peak	44.07	-19.81	24.26	46.00	-21.74

Remark :

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
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)
58.13	V	Peak	56.01	-26.35	29.66	40.00	-10.34
114.39	V	Peak	53.12	-28.82	24.30	43.50	-19.20
191.99	V	Peak	52.02	-30.89	21.13	43.50	-22.37
286.08	V	Peak	49.03	-28.81	20.22	46.00	-25.78
400.54	V	Peak	46.56	-26.02	20.54	46.00	-25.46
916.58	V	Peak	44.17	-18.49	25.68	46.00	-20.32
62.98	H	Peak	56.13	-27.28	28.85	40.00	-11.15
143.49	H	Peak	52.71	-27.19	25.52	43.50	-17.98
247.28	H	Peak	55.05	-29.81	25.24	46.00	-20.76
400.54	H	Peak	45.50	-26.02	19.48	46.00	-26.52
722.58	H	Peak	45.40	-20.85	24.55	46.00	-21.45
919.49	H	Peak	43.73	-18.47	25.26	46.00	-20.74

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	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
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)
62.98	V	Peak	56.87	-27.28	29.59	40.00	-10.41
119.24	V	Peak	52.93	-28.77	24.16	43.50	-19.34
276.38	V	Peak	49.49	-29.14	20.35	46.00	-25.65
518.88	V	Peak	44.29	-24.30	19.99	46.00	-26.01
727.43	V	Peak	43.53	-20.80	22.73	46.00	-23.27
945.68	V	Peak	42.93	-18.12	24.81	46.00	-21.19
61.04	H	Peak	55.16	-26.90	28.26	40.00	-11.74
143.49	H	Peak	52.52	-27.19	25.33	43.50	-18.17
240.49	H	Peak	54.62	-29.91	24.71	46.00	-21.29
397.63	H	Peak	45.86	-26.05	19.81	46.00	-26.19
722.58	H	Peak	45.18	-20.85	24.33	46.00	-21.67
950.53	H	Peak	43.80	-18.09	25.71	46.00	-20.29

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	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
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)
58.13	V	Peak	56.87	-26.35	30.52	40.00	-9.48
128.94	V	Peak	52.40	-28.15	24.25	43.50	-19.25
191.99	V	Peak	51.63	-30.89	20.74	43.50	-22.76
247.28	V	Peak	49.08	-29.81	19.27	46.00	-26.73
397.63	V	Peak	45.53	-26.05	19.48	46.00	-26.52
780.78	V	Peak	44.74	-20.08	24.66	46.00	-21.34
61.04	H	Peak	54.34	-26.90	27.44	40.00	-12.56
143.49	H	Peak	51.61	-27.19	24.42	43.50	-19.08
245.34	H	Peak	55.03	-29.84	25.19	46.00	-20.81
400.54	H	Peak	45.37	-26.02	19.35	46.00	-26.65
722.58	H	Peak	44.26	-20.85	23.41	46.00	-22.59
950.53	H	Peak	43.81	-18.09	25.72	46.00	-20.28

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, 5470~5725 MHz

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
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)
58.13	V	Peak	56.69	-26.35	30.34	40.00	-9.66
114.39	V	Peak	52.58	-28.82	23.76	43.50	-19.74
191.99	V	Peak	51.72	-30.89	20.83	43.50	-22.67
284.14	V	Peak	48.53	-28.86	19.67	46.00	-26.33
410.24	V	Peak	45.25	-25.78	19.47	46.00	-26.53
773.99	V	Peak	43.84	-20.21	23.63	46.00	-22.37
61.04	H	Peak	54.93	-26.90	28.03	40.00	-11.97
128.94	H	Peak	53.37	-28.15	25.22	43.50	-18.28
245.34	H	Peak	54.91	-29.84	25.07	46.00	-20.93
400.54	H	Peak	45.58	-26.02	19.56	46.00	-26.44
722.58	H	Peak	44.40	-20.85	23.55	46.00	-22.45
926.28	H	Peak	43.84	-18.38	25.46	46.00	-20.54

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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	56.16	-26.90	29.26	40.00	-10.74
121.18	V	Peak	52.18	-28.59	23.59	43.50	-19.91
191.99	V	Peak	51.67	-30.89	20.78	43.50	-22.72
269.59	V	Peak	48.43	-29.31	19.12	46.00	-26.88
400.54	V	Peak	46.87	-26.02	20.85	46.00	-25.15
681.84	V	Peak	44.03	-21.36	22.67	46.00	-23.33
61.04	H	Peak	54.18	-26.90	27.28	40.00	-12.72
143.49	H	Peak	51.93	-27.19	24.74	43.50	-18.76
245.34	H	Peak	54.73	-29.84	24.89	46.00	-21.11
397.63	H	Peak	46.34	-26.05	20.29	46.00	-25.71
715.79	H	Peak	44.23	-20.95	23.28	46.00	-22.72
906.88	H	Peak	43.46	-18.60	24.86	46.00	-21.14

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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
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)
58.13	V	Peak	55.89	-26.35	29.54	40.00	-10.46
128.94	V	Peak	52.78	-28.15	24.63	43.50	-18.87
191.99	V	Peak	52.64	-30.89	21.75	43.50	-21.75
276.38	V	Peak	48.44	-29.14	19.30	46.00	-26.70
649.83	V	Peak	43.78	-21.81	21.97	46.00	-24.03
909.79	V	Peak	43.38	-18.57	24.81	46.00	-21.19
61.04	H	Peak	54.05	-26.90	27.15	40.00	-12.85
143.49	H	Peak	51.51	-27.19	24.32	43.50	-19.18
245.34	H	Peak	54.89	-29.84	25.05	46.00	-20.95
400.54	H	Peak	45.02	-26.02	19.00	46.00	-27.00
783.69	H	Peak	43.95	-20.06	23.89	46.00	-22.11
906.88	H	Peak	44.25	-18.60	25.65	46.00	-20.35

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	56.19	-26.51	29.68	40.00	-10.32
121.18	V	Peak	53.77	-28.59	25.18	43.50	-18.32
191.99	V	Peak	52.37	-30.89	21.48	43.50	-22.02
284.14	V	Peak	49.28	-28.86	20.42	46.00	-25.58
400.54	V	Peak	45.74	-26.02	19.72	46.00	-26.28
863.23	V	Peak	45.22	-19.25	25.97	46.00	-20.03
61.04	H	Peak	55.14	-26.90	28.24	40.00	-11.76
143.49	H	Peak	53.02	-27.19	25.83	43.50	-17.67
245.34	H	Peak	55.59	-29.84	25.75	46.00	-20.25
397.63	H	Peak	45.98	-26.05	19.93	46.00	-26.07
725.49	H	Peak	44.41	-20.82	23.59	46.00	-22.41
916.58	H	Peak	43.49	-18.49	25.00	46.00	-21.00

Remark :

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
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	55.59	-25.66	29.93	40.00	-10.07
58.13	V	Peak	55.63	-26.35	29.28	40.00	-10.72
119.24	V	Peak	53.56	-28.77	24.79	43.50	-18.71
227.88	V	Peak	50.12	-30.26	19.86	46.00	-26.14
315.18	V	Peak	47.21	-28.01	19.20	46.00	-26.80
780.78	V	Peak	44.77	-20.08	24.69	46.00	-21.31
38.73	H	Peak	54.96	-25.53	29.43	40.00	-10.57
150.28	H	Peak	49.80	-26.99	22.81	43.50	-20.69
208.48	H	Peak	52.67	-31.33	21.34	43.50	-22.16
259.89	H	Peak	50.34	-29.63	20.71	46.00	-25.29
421.88	H	Peak	44.39	-25.49	18.90	46.00	-27.10
744.89	H	Peak	44.42	-20.59	23.83	46.00	-22.17

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	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
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)
46.49	V	Peak	55.61	-25.57	30.04	40.00	-9.96
135.73	V	Peak	51.20	-27.75	23.45	43.50	-20.05
232.73	V	Peak	50.69	-30.10	20.59	46.00	-25.41
315.18	V	Peak	47.65	-28.01	19.64	46.00	-26.36
604.24	V	Peak	43.97	-22.63	21.34	46.00	-24.66
780.78	V	Peak	43.92	-20.08	23.84	46.00	-22.16
36.79	H	Peak	54.65	-25.66	28.99	40.00	-11.01
208.48	H	Peak	53.10	-31.33	21.77	43.50	-21.73
264.74	H	Peak	50.75	-29.44	21.31	46.00	-24.69
528.58	H	Peak	44.24	-24.13	20.11	46.00	-25.89
649.83	H	Peak	44.61	-21.81	22.80	46.00	-23.20
834.13	H	Peak	44.19	-19.60	24.59	46.00	-21.41

Remark :

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
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)
58.13	V	Peak	56.43	-26.35	30.08	40.00	-9.92
121.18	V	Peak	52.76	-28.59	24.17	43.50	-19.33
191.99	V	Peak	51.85	-30.89	20.96	43.50	-22.54
274.44	V	Peak	48.46	-29.14	19.32	46.00	-26.68
400.54	V	Peak	45.36	-26.02	19.34	46.00	-26.66
712.88	V	Peak	45.06	-20.97	24.09	46.00	-21.91
61.04	H	Peak	54.53	-26.90	27.63	40.00	-12.37
143.49	H	Peak	51.92	-27.19	24.73	43.50	-18.77
247.28	H	Peak	54.90	-29.81	25.09	46.00	-20.91
400.54	H	Peak	45.95	-26.02	19.93	46.00	-26.07
717.73	H	Peak	44.46	-20.92	23.54	46.00	-22.46
967.99	H	Peak	44.33	-18.01	26.32	54.00	-27.68

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	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	56.63	-26.90	29.73	40.00	-10.27
114.39	V	Peak	53.25	-28.82	24.43	43.50	-19.07
191.99	V	Peak	51.71	-30.89	20.82	43.50	-22.68
303.54	V	Peak	48.55	-28.30	20.25	46.00	-25.75
415.09	V	Peak	44.87	-25.64	19.23	46.00	-26.77
780.78	V	Peak	44.93	-20.08	24.85	46.00	-21.15
61.04	H	Peak	53.00	-26.90	26.10	40.00	-13.90
128.94	H	Peak	51.36	-28.15	23.21	43.50	-20.29
240.49	H	Peak	54.26	-29.91	24.35	46.00	-21.65
417.03	H	Peak	44.26	-25.59	18.67	46.00	-27.33
696.39	H	Peak	43.37	-21.20	22.17	46.00	-23.83
948.59	H	Peak	41.84	-18.10	23.74	46.00	-22.26

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	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	55.51	-26.51	29.00	40.00	-11.00
114.39	V	Peak	52.93	-28.82	24.11	43.50	-19.39
191.99	V	Peak	52.12	-30.89	21.23	43.50	-22.27
274.44	V	Peak	48.43	-29.14	19.29	46.00	-26.71
397.63	V	Peak	46.09	-26.05	20.04	46.00	-25.96
780.78	V	Peak	44.69	-20.08	24.61	46.00	-21.39
61.04	H	Peak	54.16	-26.90	27.26	40.00	-12.74
143.49	H	Peak	52.86	-27.19	25.67	43.50	-17.83
240.49	H	Peak	55.32	-29.91	25.41	46.00	-20.59
400.54	H	Peak	45.43	-26.02	19.41	46.00	-26.59
717.73	H	Peak	44.18	-20.92	23.26	46.00	-22.74
866.14	H	Peak	43.92	-19.23	24.69	46.00	-21.31

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, 5470~5725 MHz

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
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)
58.13	V	Peak	56.09	-26.35	29.74	40.00	-10.26
143.49	V	Peak	51.72	-27.19	24.53	43.50	-18.97
191.99	V	Peak	51.79	-30.89	20.90	43.50	-22.60
303.54	V	Peak	48.72	-28.30	20.42	46.00	-25.58
397.63	V	Peak	45.61	-26.05	19.56	46.00	-26.44
795.33	V	Peak	43.99	-19.98	24.01	46.00	-21.99
61.04	H	Peak	54.19	-26.90	27.29	40.00	-12.71
143.49	H	Peak	52.74	-27.19	25.55	43.50	-17.95
247.28	H	Peak	54.52	-29.81	24.71	46.00	-21.29
400.54	H	Peak	45.70	-26.02	19.68	46.00	-26.32
715.79	H	Peak	44.97	-20.95	24.02	46.00	-21.98
919.49	H	Peak	43.73	-18.47	25.26	46.00	-20.74

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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
59.10	V	Peak	55.89	-26.51	29.38	40.00	-10.62
143.49	V	Peak	51.84	-27.19	24.65	43.50	-18.85
191.99	V	Peak	52.81	-30.89	21.92	43.50	-21.58
286.08	V	Peak	48.11	-28.81	19.30	46.00	-26.70
400.54	V	Peak	46.59	-26.02	20.57	46.00	-25.43
780.78	V	Peak	44.04	-20.08	23.96	46.00	-22.04
61.04	H	Peak	55.19	-26.90	28.29	40.00	-11.71
143.49	H	Peak	51.92	-27.19	24.73	43.50	-18.77
247.28	H	Peak	54.89	-29.81	25.08	46.00	-20.92
400.54	H	Peak	45.57	-26.02	19.55	46.00	-26.45
589.69	H	Peak	44.41	-22.92	21.49	46.00	-24.51
722.58	H	Peak	44.99	-20.85	24.14	46.00	-21.86

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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Mar- gin (dB)
61.04	V	Peak	56.33	-26.90	29.43	40.00	-10.57
126.03	V	Peak	52.25	-28.26	23.99	43.50	-19.51
191.99	V	Peak	52.61	-30.89	21.72	43.50	-21.78
303.54	V	Peak	47.92	-28.30	19.62	46.00	-26.38
400.54	V	Peak	46.33	-26.02	20.31	46.00	-25.69
715.79	V	Peak	44.14	-20.95	23.19	46.00	-22.81
62.98	H	Peak	54.67	-27.28	27.39	40.00	-12.61
143.49	H	Peak	51.93	-27.19	24.74	43.50	-18.76
240.49	H	Peak	54.70	-29.91	24.79	46.00	-21.21
400.54	H	Peak	46.24	-26.02	20.22	46.00	-25.78
715.79	H	Peak	44.89	-20.95	23.94	46.00	-22.06
909.79	H	Peak	43.27	-18.57	24.70	46.00	-21.30

Remark :

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6583.5	44.03	---	-0.55	43.48	---	74.00	54.00	-10.52	Peak
10360.0	----					75.00	54.00		
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
36260.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
46620.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6583.5	42.22	---	1.22	43.44	---	74.00	54.00	-10.56	Peak
10360.0	----					75.00	54.00		
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
36260.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
46620.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6830.5	42.80	---	0.90	43.70	---	74.00	54.00	-10.30	Peak
10440.0	---					74.00	54.00		
15660.0	----					74.00	54.00		
20880.0	----					74.00	54.00		
26100.0	----					74.00	54.00		
31320.0	----					74.00	54.00		
36540.0	----					74.00	54.00		
41760.0	----					74.00	54.00		
46980.0	----					74.00	54.00		
52200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6811.0	43.00	---	0.60	43.60	---	74.00	54.00	-10.40	Peak
10440.0	---					75.00	54.00		
15660.0	----					74.00	54.00		
20880.0	----					74.00	54.00		
26100.0	----					74.00	54.00		
31320.0	----					74.00	54.00		
36540.0	----					74.00	54.00		
41760.0	----					74.00	54.00		
46980.0	----					74.00	54.00		
52200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6778.5	43.10	---	0.50	43.60	---	74.00	54.00	-10.40	Peak
10480.0	---					74.00	54.00		
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6960.5	42.20	---	1.40	43.60	---	74.00	54.00	-10.40	Peak
10480.0	---					74.00	54.00		
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

Remark:

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6960.5	42.38	---	1.35	43.73	---	74.00	54.00	-10.27	Peak
10520.0	----					74.00	54.00		
15780.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
26300.0	----					74.00	54.00		
31560.0	----					74.00	54.00		
36540.0	----					74.00	54.00		
42080.0	----					74.00	54.00		
47340.0	----					74.00	54.00		
52600.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7266.0	42.66	---	1.89	44.55	---	74.00	54.00	-9.45	Peak
10520.0	----					75.00	54.00		
15780.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
26300.0	----					74.00	54.00		
31560.0	----					74.00	54.00		
36820.0	----					74.00	54.00		
42080.0	----					74.00	54.00		
47340.0	----					74.00	54.00		
52600.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6908.5	43.10	---	1.20	44.30	---	74.00	54.00	-9.70	Peak
15900.0	----					74.00	54.00		
21200.0	----					74.00	54.00		
26500.0	----					74.00	54.00		
31800.0	----					74.00	54.00		
37100.0	----					74.00	54.00		
42400.0	----					74.00	54.00		
47700.0	----					74.00	54.00		
53000.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6993.0	43.20	---	1.50	44.70	---	74.00	54.00	-9.30	Peak
10480.0	---					74.00	54.00		
15900.0	----					74.00	54.00		
21200.0	----					74.00	54.00		
26500.0	----					74.00	54.00		
31800.0	----					74.00	54.00		
37100.0	----					74.00	54.00		
42400.0	----					74.00	54.00		
47700.0	----					74.00	54.00		
53000.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7136.0	43.80	---	1.70	45.50	---	74.00	54.00	-8.50	Peak
10640.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
21280.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
31920.0	----					74.00	54.00		
37240.0	----					74.00	54.00		
42560.0	----					74.00	54.00		
47880.0	----					74.00	54.00		
53200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7266.0	42.70	---	1.90	44.60	---	74.00	54.00	-9.40	Peak
10640.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
21280.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
31920.0	----					74.00	54.00		
37240.0	----					74.00	54.00		
42560.0	----					74.00	54.00		
47880.0	----					74.00	54.00		
53200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5470~5725 MHz

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6973.5	42.19	---	1.35	43.54	---	74.00	54.00	-10.46	Peak
11000.0	----					75.00	54.00		
16500.0	----					74.00	54.00		
22000.0	----					74.00	54.00		
33000.0	----					74.00	54.00		
38500.0	----					74.00	54.00		
44000.0	----					74.00	54.00		
49500.0	----					74.00	54.00		
55000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6993.0	41.99	---	1.48	43.47	---	74.00	54.00	-10.53	Peak
11000.0	----					74.00	54.00		
16500.0	----					74.00	54.00		
22000.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
38500.0	----					74.00	54.00		
44000.0	----					74.00	54.00		
49500.0	----					74.00	54.00		
55000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7136.0	42.10	---	1.68	43.78	---	74.00	54.00	-10.22	Peak
11160.0	----					74.00	54.00		
16740.0	----					74.00	54.00		
27900.0	----					74.00	54.00		
33480.0	----					74.00	54.00		
39060.0	----					74.00	54.00		
44640.0	----					74.00	54.00		
50220.0	----					74.00	54.00		
55800.0	----					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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3710.0	47.03	---	-9.39	37.64	---	74.00	54.00	-16.36	Peak
11160.0	----					75.00	54.00		
16740.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
33480.0	----					74.00	54.00		
39060.0	----					74.00	54.00		
44640.0	----					74.00	54.00		
50220.0	----					74.00	54.00		
55800.0	----					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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6941.0	42.78	---	1.22	44.00	---	74.00	54.00	-10.00	Peak
11400.0	----					74.00	54.00		
22800.0	----					74.00	54.00		
28500.0	----					74.00	54.00		
34200.0	----					74.00	54.00		
39900.0	----					74.00	54.00		
45600.0	----					74.00	54.00		
51300.0	----					74.00	54.00		
57000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3788.5	48.97	---	-9.19	39.78	---	74.00	54.00	-14.22	Peak
11400.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
22800.0	----					74.00	54.00		
28500.0	----					74.00	54.00		
34200.0	----					74.00	54.00		
39900.0	----					74.00	54.00		
45600.0	----					74.00	54.00		
51300.0	----					74.00	54.00		
57000.0	----					74.00	54.00		

Remark:

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6746.0	43.10	---	0.43	43.53	---	74.00	54.00	-10.47	Peak
10360.0	----					75.00	54.00		
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
46620.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6908.5	41.96	---	1.13	43.09	---	74.00	54.00	-10.91	Peak
10360.0	----					74.00	54.00		
15540.0	----					74.00	54.00		
20720.0	----					74.00	54.00		
25900.0	----					74.00	54.00		
31080.0	----					74.00	54.00		
36260.0	----					74.00	54.00		
41440.0	----					74.00	54.00		
51800.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7350.5	42.50	---	2.00	44.50	---	74.00	54.00	-9.50	Peak
10440.0	---					74.00	54.00		
15660.0	----					74.00	54.00		
20880.0	----					74.00	54.00		
26100.0	----					74.00	54.00		
31320.0	----					74.00	54.00		
36540.0	----					74.00	54.00		
41760.0	----					74.00	54.00		
46980.0	----					74.00	54.00		
52200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5220MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7168.5	42.70	---	1.70	44.40	---	74.00	54.00	-9.60	Peak
10440.0	---					75.00	54.00		
15660.0	----					74.00	54.00		
20880.0	----					74.00	54.00		
26100.0	----					74.00	54.00		
31320.0	----					74.00	54.00		
36540.0	----					74.00	54.00		
41760.0	----					74.00	54.00		
46980.0	----					74.00	54.00		
52200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7168.5	43.80	---	1.70	45.50	---	74.00	54.00	-8.50	Peak
10480.0	---					74.00	54.00		
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6778.5	43.30	---	0.50	43.80	---	74.00	54.00	-10.20	Peak
10480.0	---					74.00	54.00		
15720.0	----					74.00	54.00		
20960.0	----					74.00	54.00		
26200.0	----					74.00	54.00		
31440.0	----					74.00	54.00		
36680.0	----					74.00	54.00		
41920.0	----					74.00	54.00		
47160.0	----					74.00	54.00		
52400.0	----					74.00	54.00		

Remark:

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

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

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
6978.0	42.74	---	0.65	43.39	---	74.00	54.00	-10.61 Peak
10520.0	----					74.00	54.00	
15780.0	----					74.00	54.00	
21040.0	----					74.00	54.00	
26300.0	----					74.00	54.00	
31560.0	----					74.00	54.00	
36540.0	----					74.00	54.00	
42080.0	----					74.00	54.00	
52600.0	----					74.00	54.00	

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5260MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7168.5	42.34	---	1.73	44.07	---	74.00	54.00	-9.93	Peak
10520.0	----					75.00	54.00		
15780.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
26300.0	----					74.00	54.00		
31560.0	----					74.00	54.00		
36820.0	----					74.00	54.00		
42080.0	----					74.00	54.00		
47340.0	----					74.00	54.00		
52600.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6798.0	43.30	---	0.60	43.90	---	74.00	54.00	-10.10	Peak
10480.0	---					74.00	54.00		
15900.0	----					74.00	54.00		
21200.0	----					74.00	54.00		
26500.0	----					74.00	54.00		
31800.0	----					74.00	54.00		
37100.0	----					74.00	54.00		
42400.0	----					74.00	54.00		
47700.0	----					74.00	54.00		
53000.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	Oct. 11, 2010
Fundamental Frequency	5300MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6798.0	44.30	---	0.60	44.90	---	74.00	54.00	-9.10	Peak
10480.0	---					74.00	54.00		
15900.0	----					74.00	54.00		
21200.0	----					74.00	54.00		
26500.0	----					74.00	54.00		
31800.0	----					74.00	54.00		
37100.0	----					74.00	54.00		
42400.0	----					74.00	54.00		
47700.0	----					74.00	54.00		
53000.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6973.5	42.68	---	1.35	44.03	---	74.00	54.00	-9.97	Peak
10640.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
21280.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
31920.0	----					74.00	54.00		
37240.0	----					74.00	54.00		
42560.0	----					74.00	54.00		
47880.0	----					74.00	54.00		
53200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	Oct. 11, 2010
Fundamental Frequency	5320MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6960.5	42.93	---	1.35	44.28	---	74.00	54.00	-9.72	Peak
10640.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
21280.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
31920.0	----					74.00	54.00		
37240.0	----					74.00	54.00		
42560.0	----					74.00	54.00		
47880.0	----					74.00	54.00		
53200.0	----					74.00	54.00		

Remark:

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

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Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5470~5725 MHz

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	60 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
7266.0	42.76	---	1.89	44.65	---	74.00	54.00	-9.35	Peak
11000.0	----					75.00	54.00		
16500.0	----					74.00	54.00		
22000.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
33000.0	----					74.00	54.00		
38500.0	----					74.00	54.00		
44000.0	----					74.00	54.00		
49500.0	----					74.00	54.00		
55000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6960.5	42.65	---	1.35	44.00	---	74.00	54.00	-10.00	Peak
11000.0	----					74.00	54.00		
16500.0	----					74.00	54.00		
22000.0	----					74.00	54.00		
26600.0	----					74.00	54.00		
33000.0	----					74.00	54.00		
38500.0	----					74.00	54.00		
44000.0	----					74.00	54.00		
49500.0	----					74.00	54.00		
55000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6793.5	43.00	---	1.40	44.40	---	74.00	54.00	-9.60	Peak
11160.0	----					74.00	54.00		
16740.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
27900.0	----					74.00	54.00		
33480.0	----					74.00	54.00		
39060.0	----					74.00	54.00		
44640.0	----					74.00	54.00		
50220.0	----					74.00	54.00		
55800.0	----					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	Oct. 11, 2010
Fundamental Frequency	5580MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3710.5	45.90	---	-9.40	36.50	---	74.00	54.00	-17.50	Peak
11160.0	----					75.00	54.00		
16740.0	----					74.00	54.00		
21040.0	----					74.00	54.00		
27900.0	----					74.00	54.00		
33480.0	----					74.00	54.00		
39060.0	----					74.00	54.00		
44640.0	----					74.00	54.00		
50220.0	----					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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
6973.5	42.18	---	1.35	43.53	---	74.00	54.00	-10.47	Peak
11400.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
22800.0	----					74.00	54.00		
28500.0	----					74.00	54.00		
34200.0	----					74.00	54.00		
39900.0	----					74.00	54.00		
45600.0	----					74.00	54.00		
51300.0	----					74.00	54.00		
57000.0	----					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	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3788.5	48.40	---	-9.19	39.21	---	74.00	54.00	-14.79	Peak
11400.0	----					74.00	54.00		
15960.0	----					74.00	54.00		
22800.0	----					74.00	54.00		
28500.0	----					74.00	54.00		
34200.0	----					74.00	54.00		
39900.0	----					74.00	54.00		
45600.0	----					74.00	54.00		
51300.0	----					74.00	54.00		
57000.0	----					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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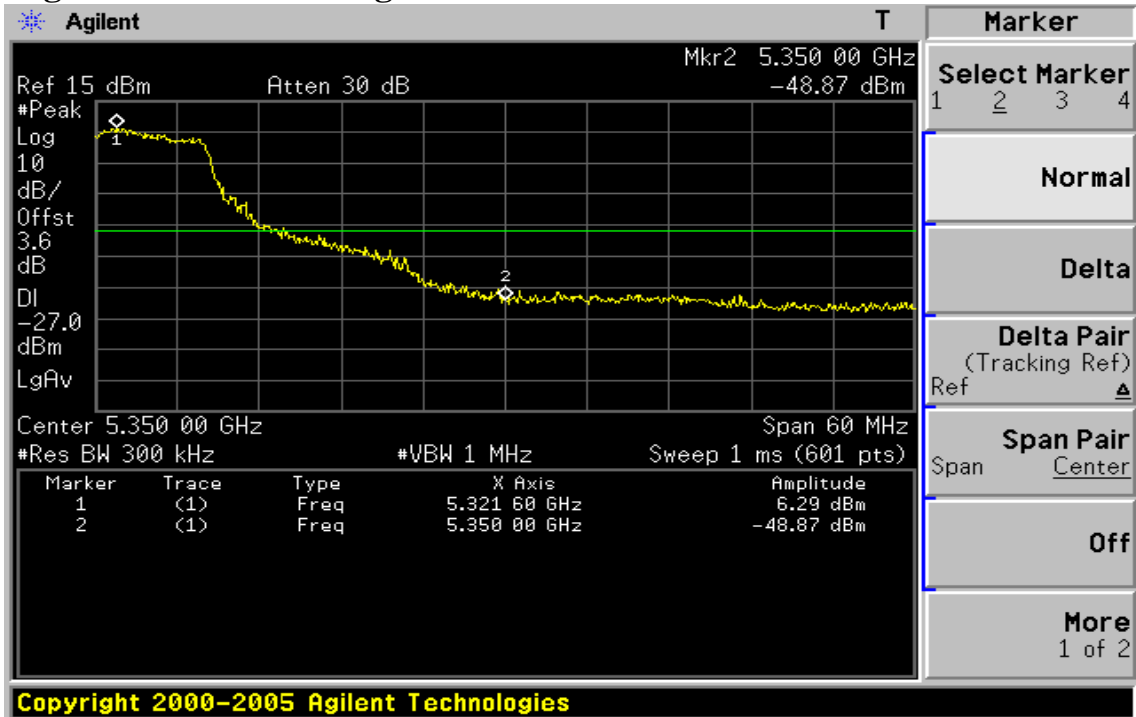
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UNII, 5150~5350 MHz
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		

5150.00	52.38	---	-5.20	47.18	---	74.00	54.00	-6.82	Peak
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Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		

5150.00	52.91	---	-5.20	47.71	---	74.00	54.00	-6.29	Peak
---------	-------	-----	-------	-------	-----	-------	-------	-------	------

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	Test Date	Oct. 11, 2010
Fundamental Frequency	5240MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5350.00	53.84	--	-4.71	49.13	--	74.00	54.00	-4.87	Peak
Operation Mode		TX CH High		Test Date		Oct. 11, 2010			
Fundamental Frequency		5240MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5350.00	54.04	--	-4.71	49.33	--	74.00	54.00	-4.67	Peak

Remark:

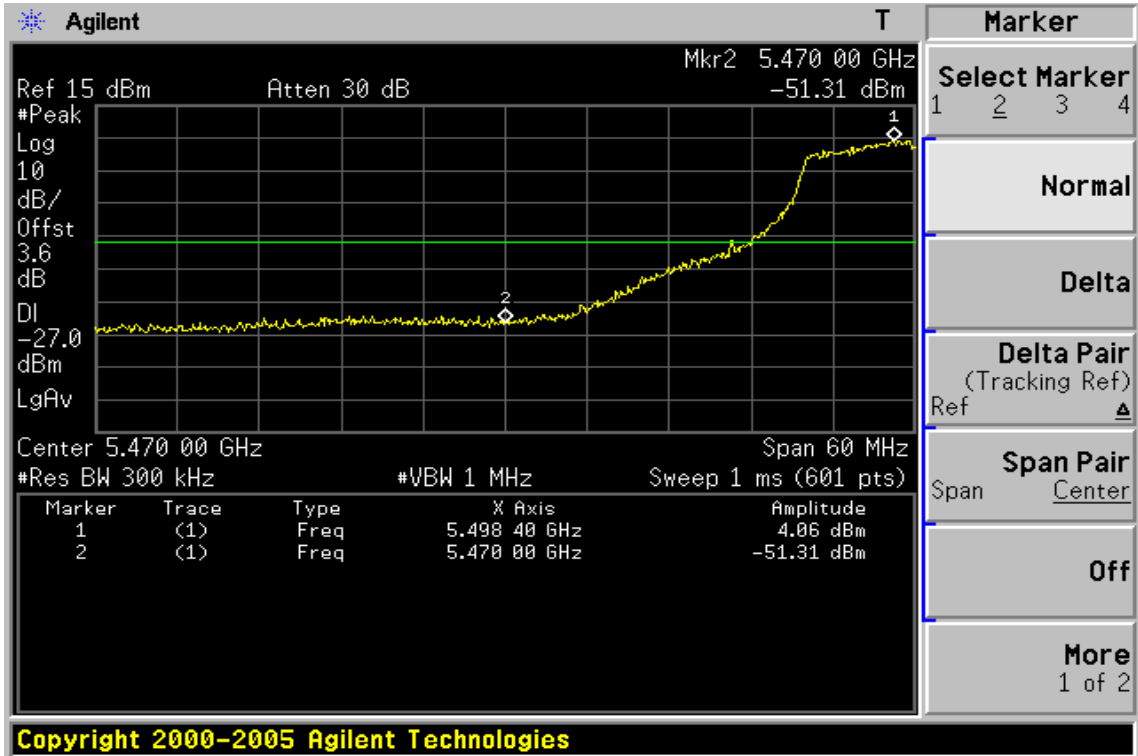
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with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

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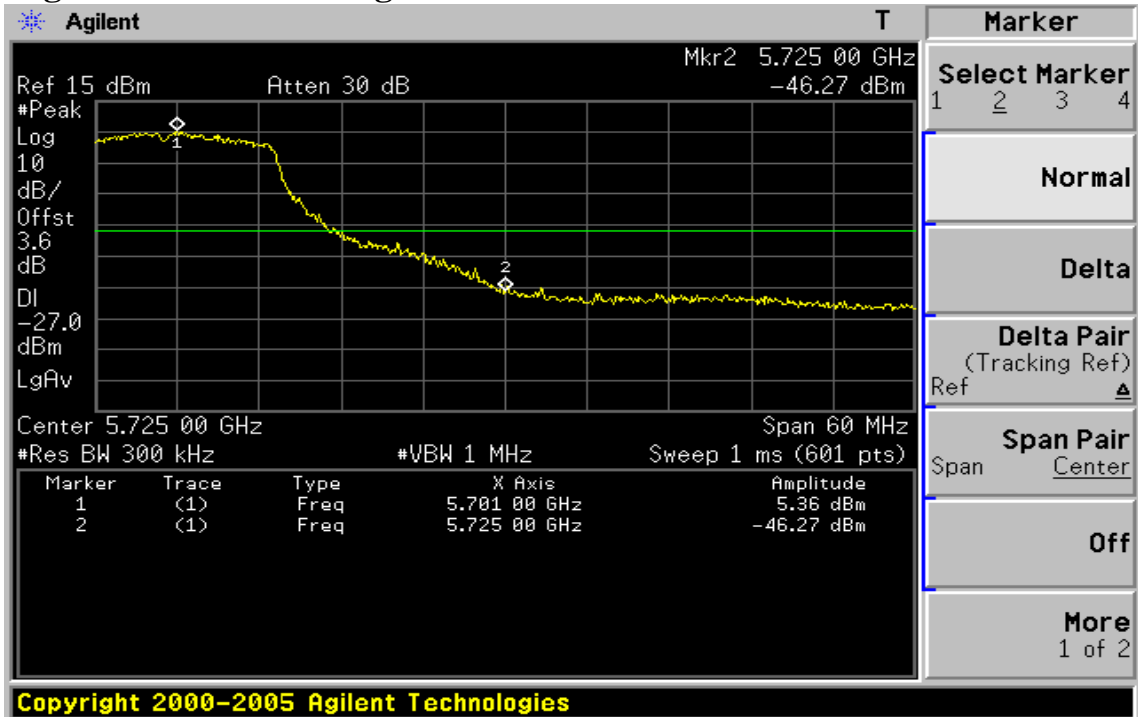
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UNII, 5470~5725 MHz
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5470.00	54.67	---	-4.45	50.22	---	74.00	54.00	-3.78	Peak
Operation Mode		TX CH Low		Test Date		Oct. 11, 2010			
Fundamental Frequency		5500 MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5470.00	55.48	---	-4.45	51.03	---	74.00	54.00	-2.97	Peak

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	Test Date	Oct. 11, 2010
Fundamental Frequency	5700MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	55.03	--	-4.33	50.70	--	74.00	54.00	-3.30	Peak
Operation Mode		TX CH High		Test Date		Oct. 11, 2010			
Fundamental Frequency		5700MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	55.81	--	-4.33	51.48	--	74.00	54.00	-2.52	Peak

Remark:

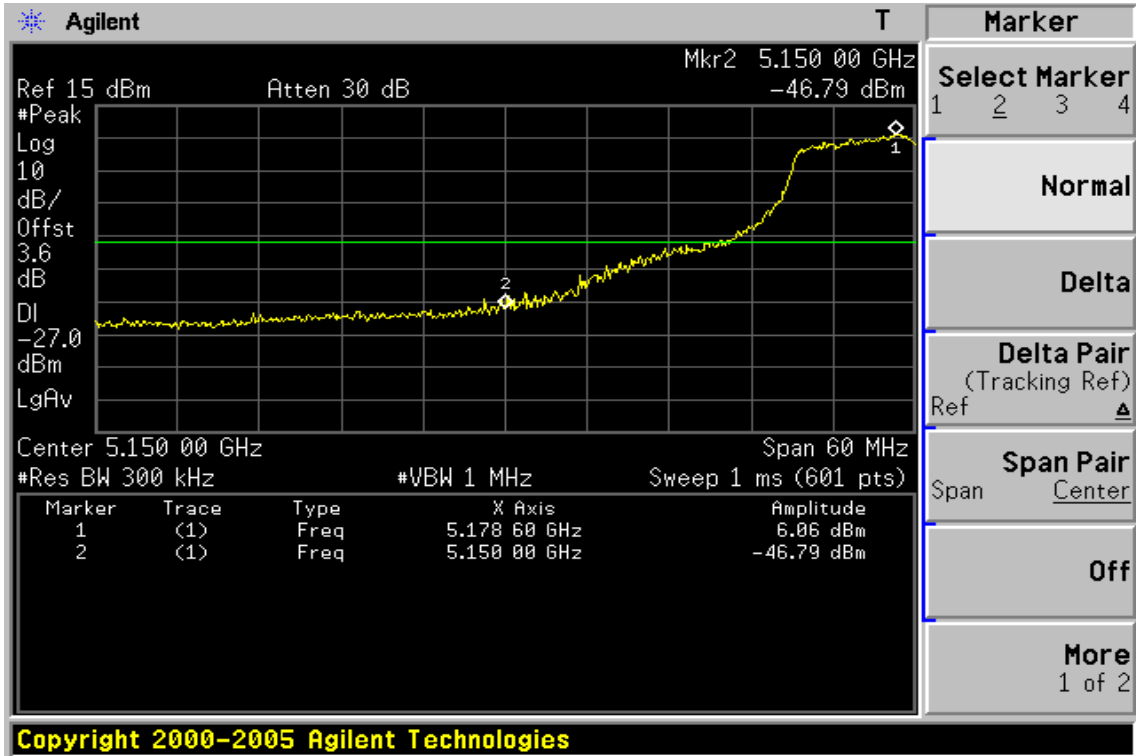
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with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

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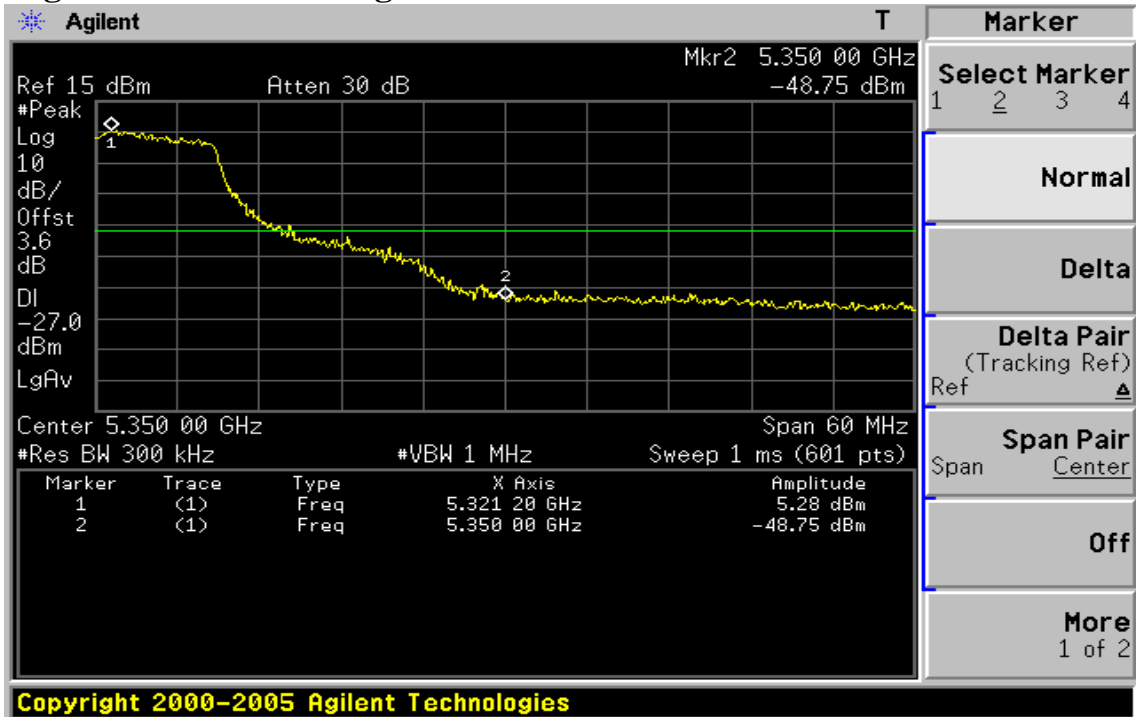
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UNII HT20, 5150~5350 MHz
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: HT20

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5180MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5150.00	52.44	---	-5.20	47.24	---	74.00	54.00	-6.76	Peak
Operation Mode		TX CH Low		Test Date		Oct. 11, 2010			
Fundamental Frequency		5180 MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5150.00	52.65	---	-5.20	47.45	---	74.00	54.00	-6.55	Peak

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	Test Date	Oct. 11, 2010
Fundamental Frequency	5320 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5350.00	53.08	--	-4.71	48.37	--	74.00	54.00	-5.63	Peak
Operation Mode		TX CH High		Test Date		Oct. 11, 2010			
Fundamental Frequency		5320 MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5350.00	55.19	--	-4.71	50.48	--	74.00	54.00	-3.52	Peak

Remark:

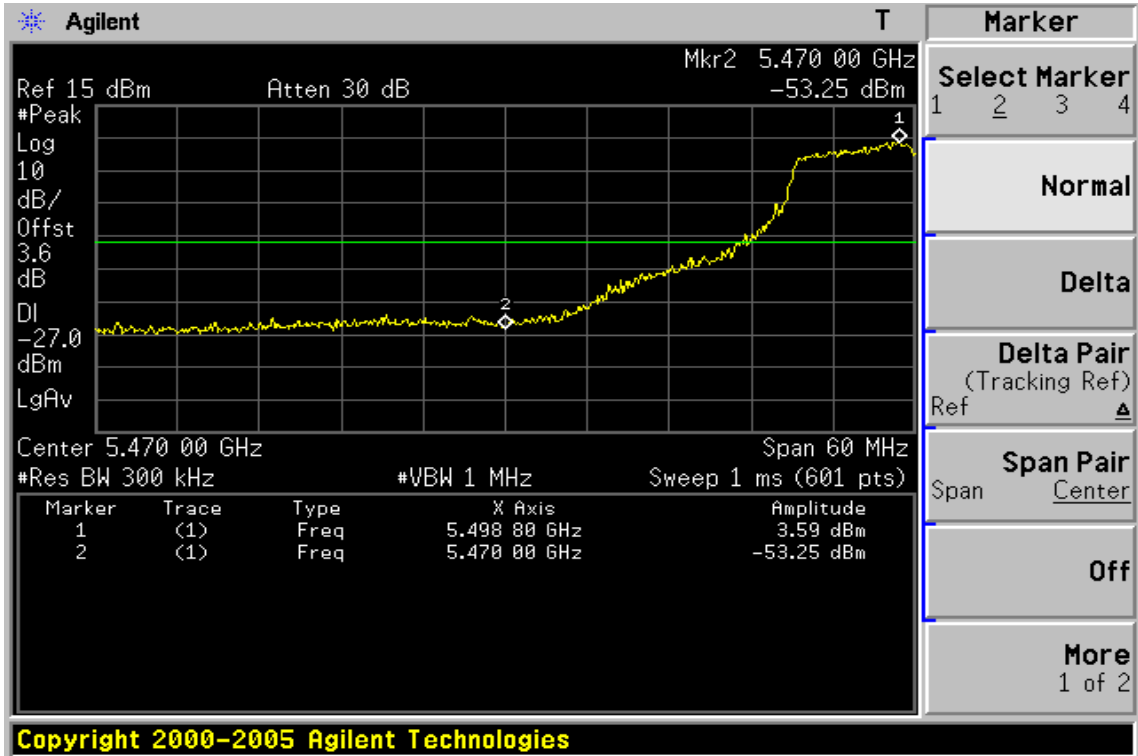
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with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

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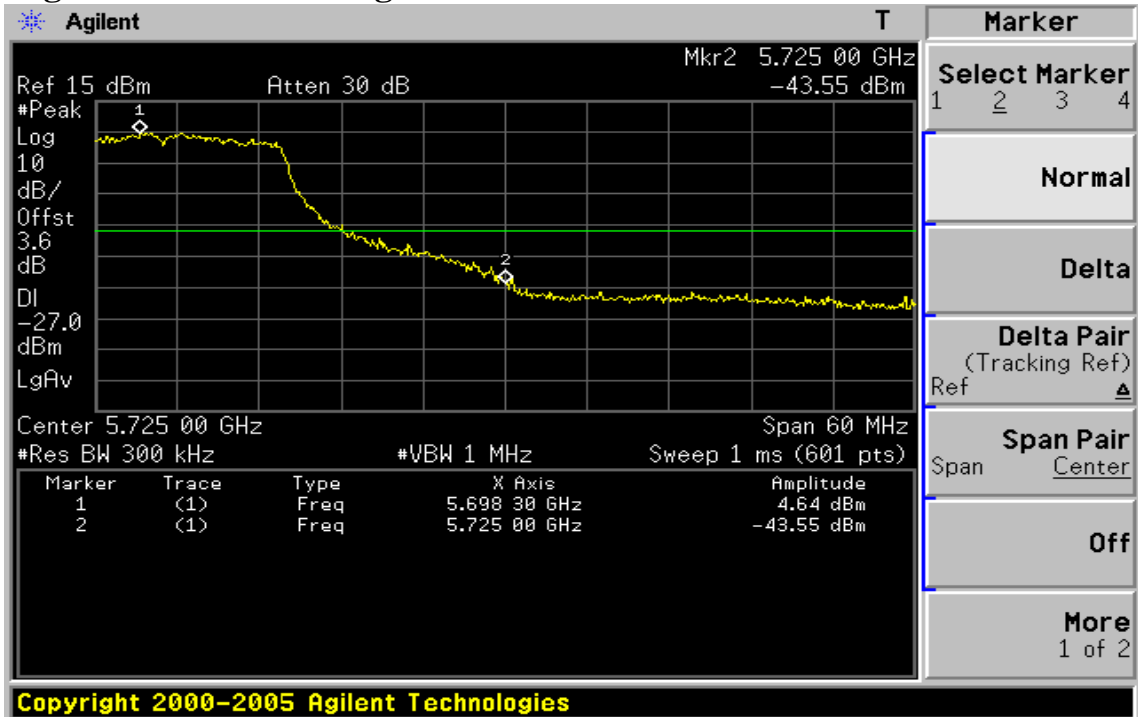
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UNII HT20, 5470~5725 MHz
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: HT20

Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		

5470.00	55.57	--	-4.45	51.12	--	74.00	54.00	-2.88	Peak
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Operation Mode	TX CH Low	Test Date	Oct. 11, 2010
Fundamental Frequency	5500MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		

5470.00	57.44	44.33	-4.45	52.99	39.88	74.00	54.00	-14.12	AV
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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	Test Date	Oct. 11, 2010
Fundamental Frequency	5700 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	60.06	46.95	-4.33	55.73	42.62	74.00	54.00	-11.38	AV
Operation Mode		TX CH High		Test Date		Oct. 11, 2010			
Fundamental Frequency		5700 MHz		Test By		Sky			
Temperature		25 °C		Pol		Hor.			
Humidity		65 %							

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	57.78	44.63	-4.33	53.45	40.30	74.00	54.00	-13.70	AV

Remark:

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

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

13.1 Standard Applicable

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

13.2 Result:

No non-compliance noted:

±20ppm ppm was defined in product specification.

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, Antenna requirement.

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

14.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 1.90dBi for 2.4GHz, 3.0dBi for 5GHz, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec.for details.

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15. TPC and DFS MEASUREMENT

15.1 TPC: Standard Applicable

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

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

15.2 DFS: Standard Applicable

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

15.2.1.Limit

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

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

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Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Cannel Closing Transmis-sion time	Yes	Yes	Yes
Channel Move time	Yes	Yes	Yes

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

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

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

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Table 4: DFS Response requirement values

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

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

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

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

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

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Table 5: Radar Test Waveforms

Short Pulse Radar

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

Long Pulse Radar

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

Frequency Hopping Radar

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

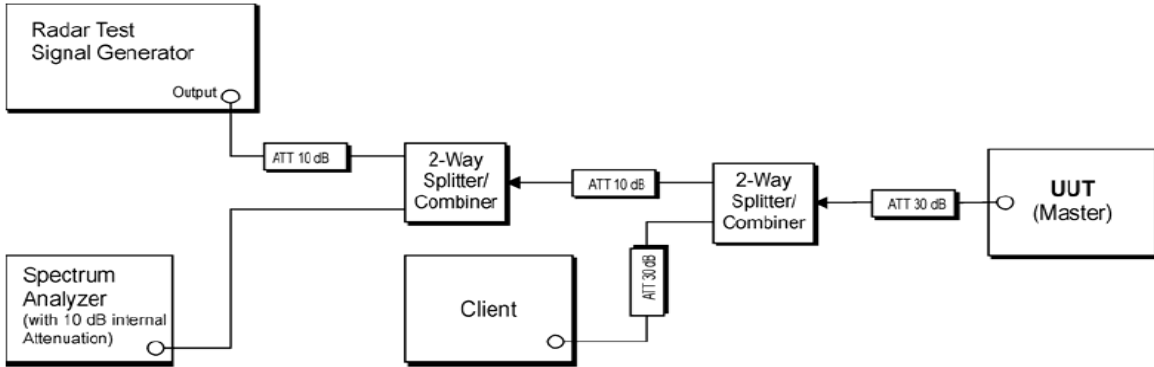
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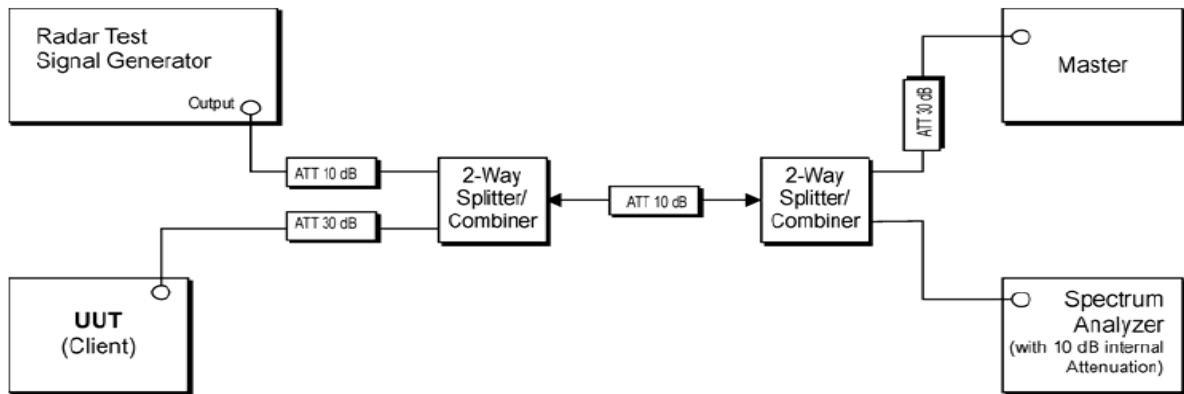
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15.2.2. Test Setup

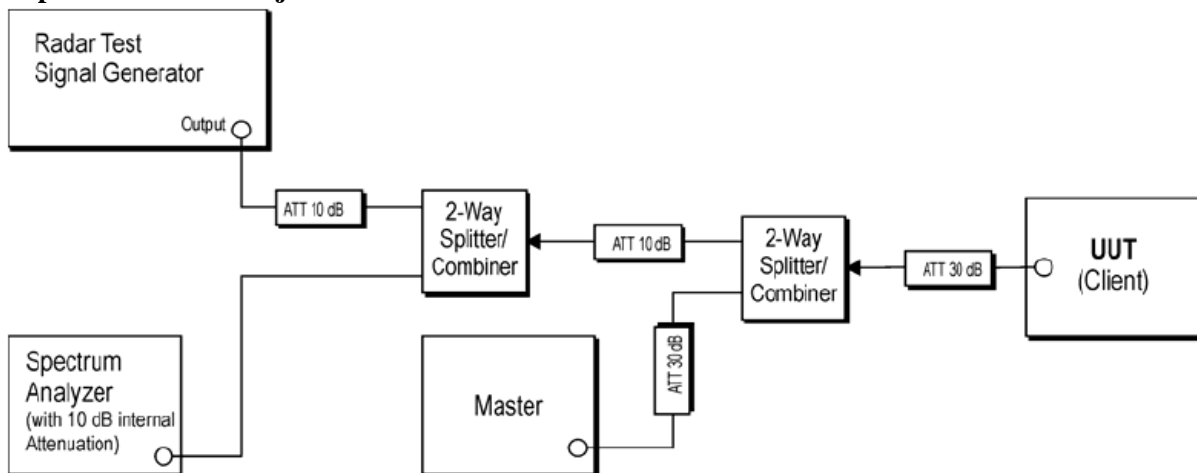
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



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15.2.3. Test Equipment Used:

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

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15.2.4. Descriptioin of EUT :

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

The EUT utilizes the 802.11a architecture,with a nominal channel bandwidth of 20MHz

WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

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

16.2.5. Test results

Refer to next page for plots.

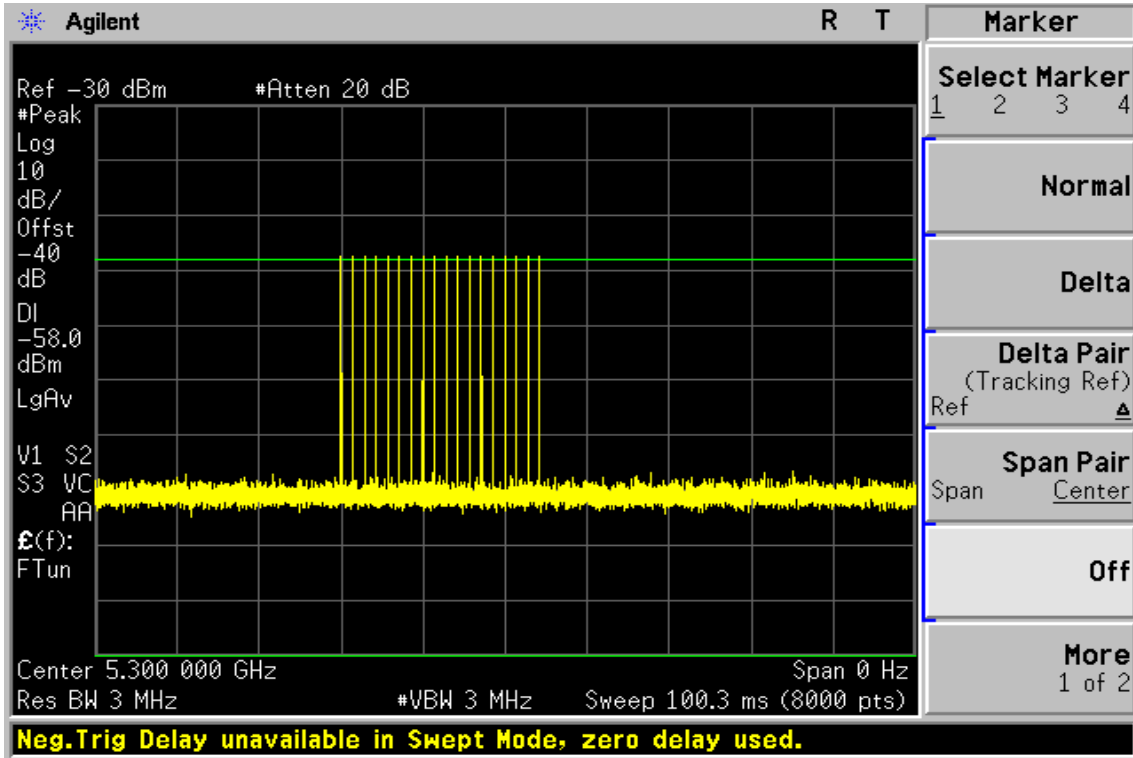
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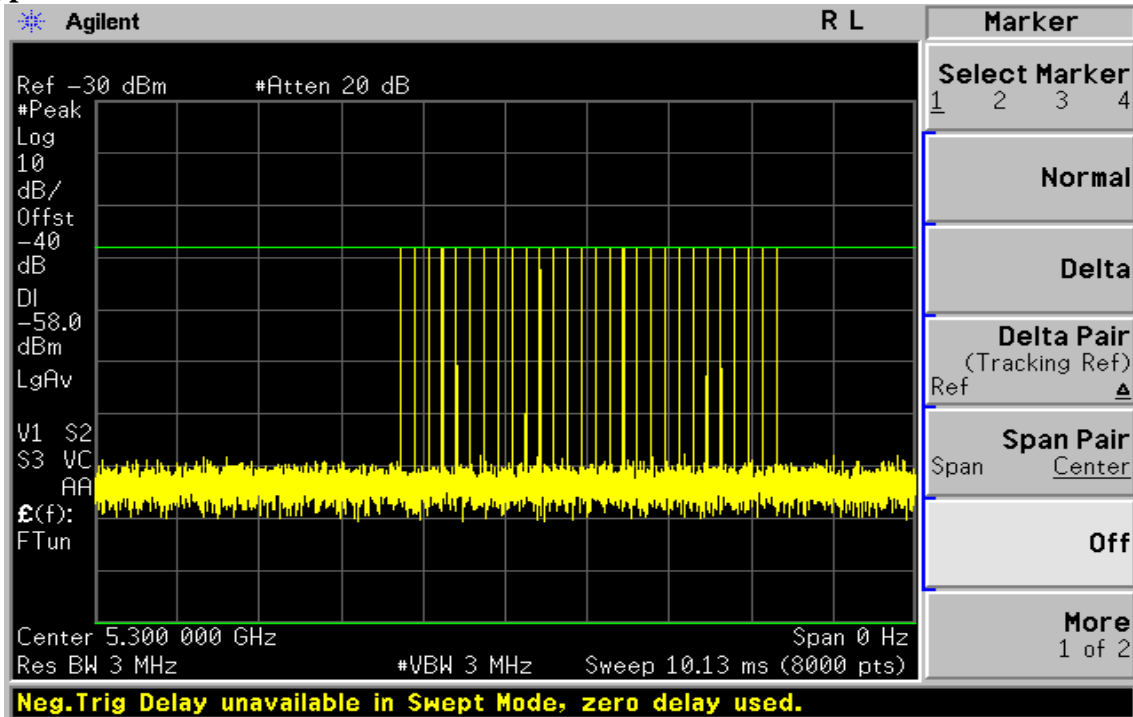
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Calibration plots for each of the required radar waveforms

Radar type 1



Radar type 2

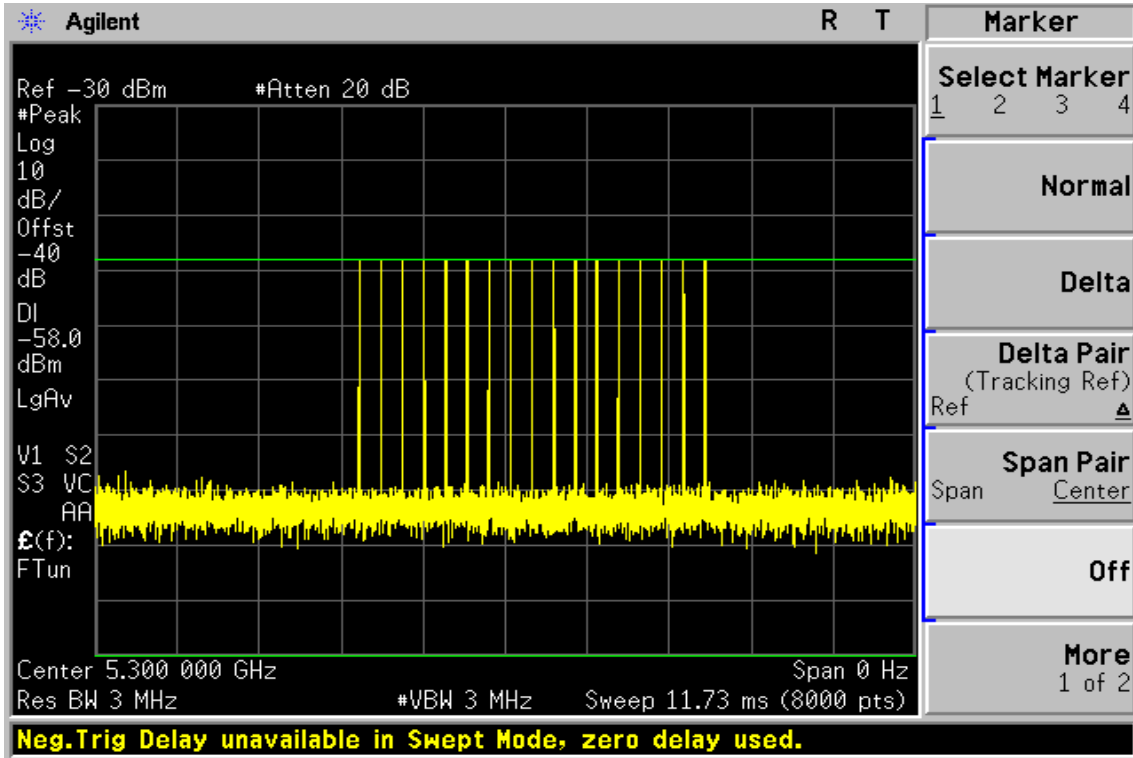


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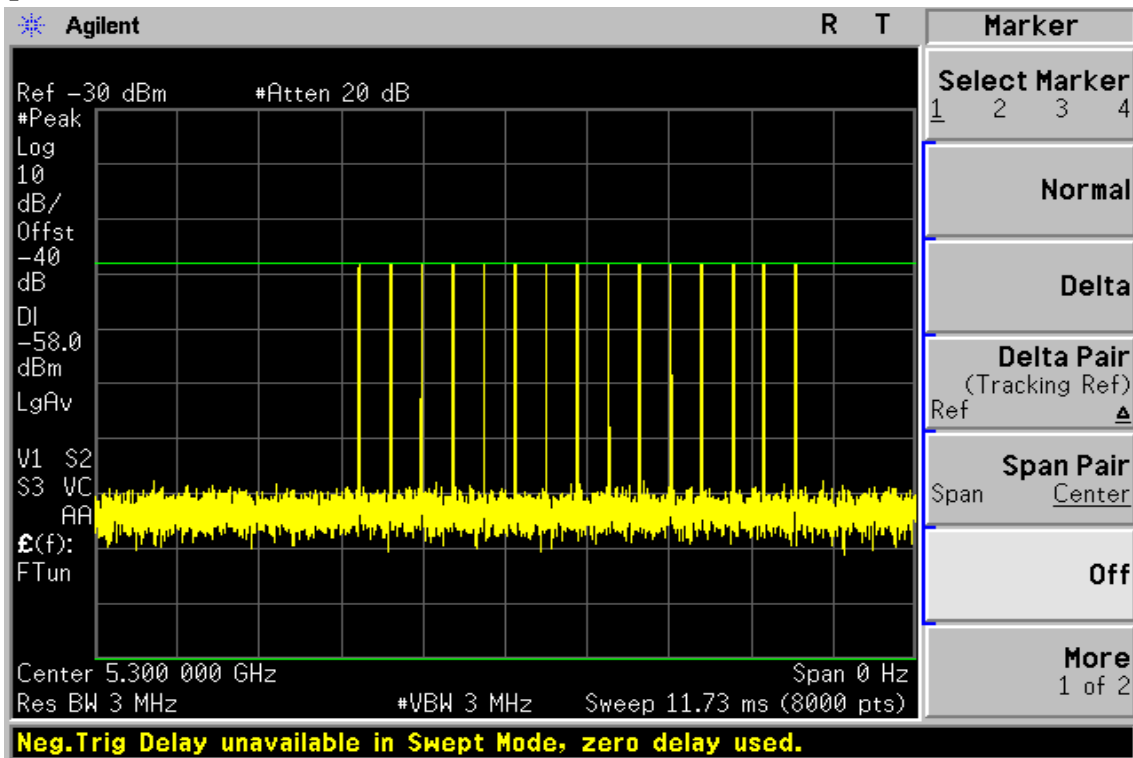
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Radar type 3

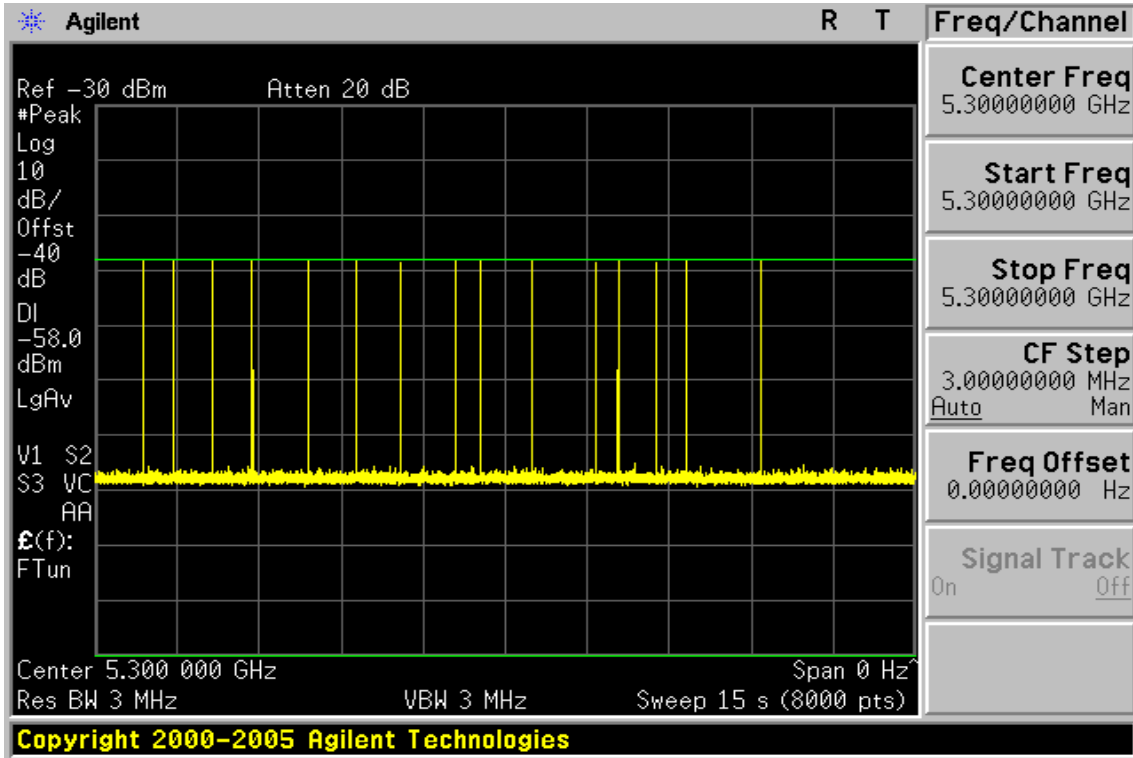


Radar type 4

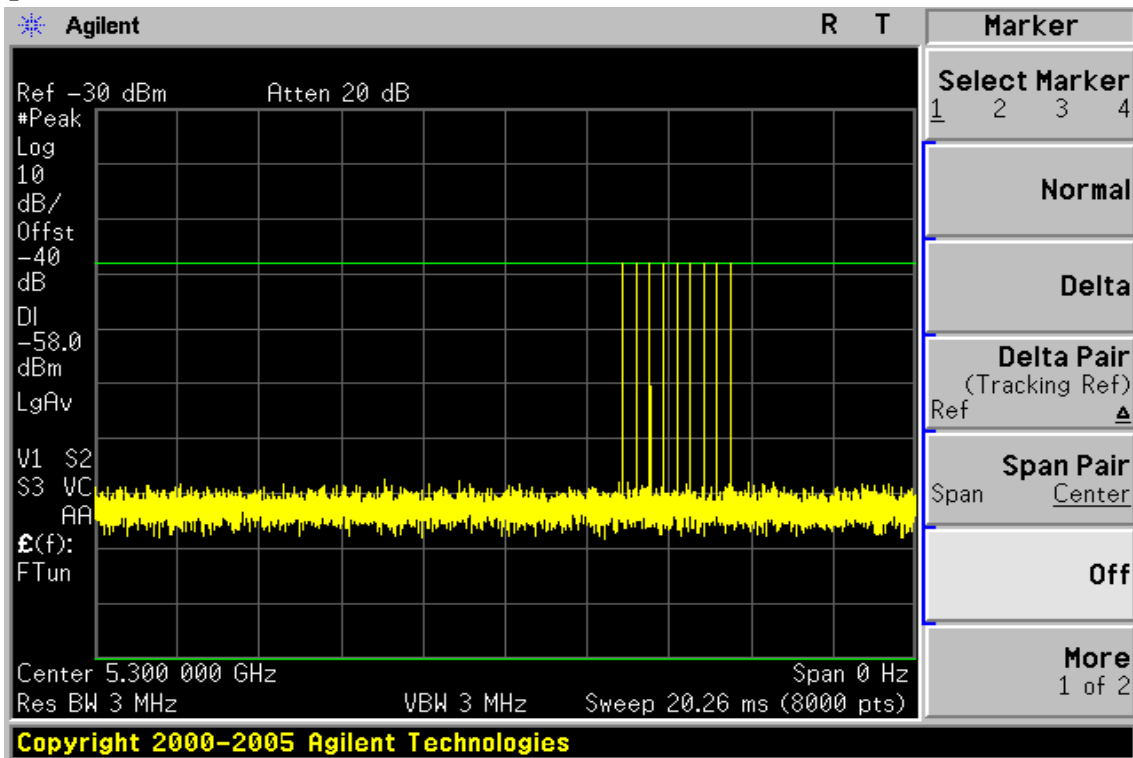


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Radar type 5



Radar type 6

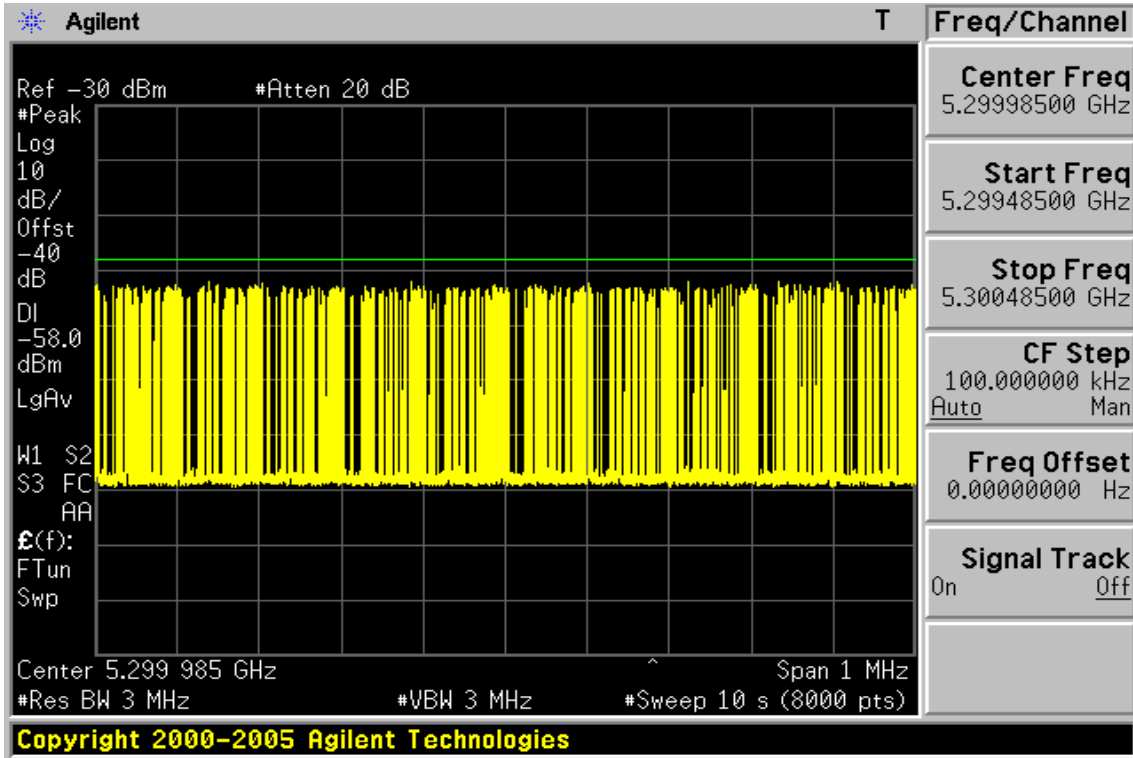


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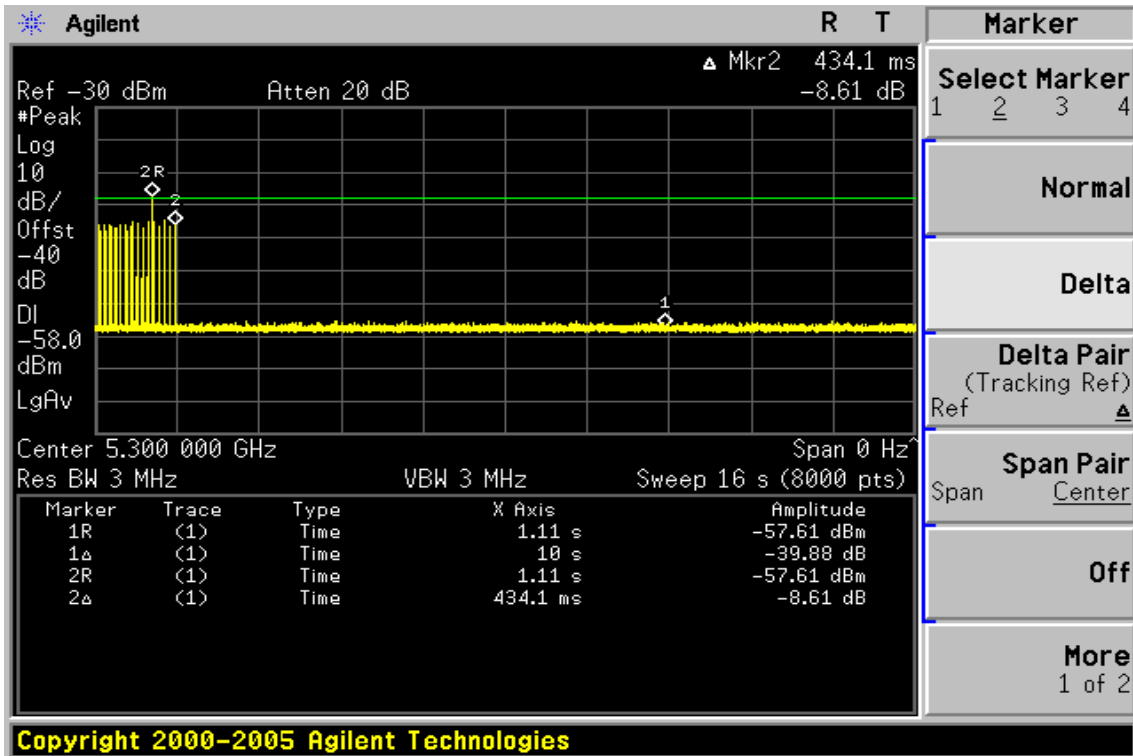
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WLAN traffic



Radar Type 1 Channel Move Time

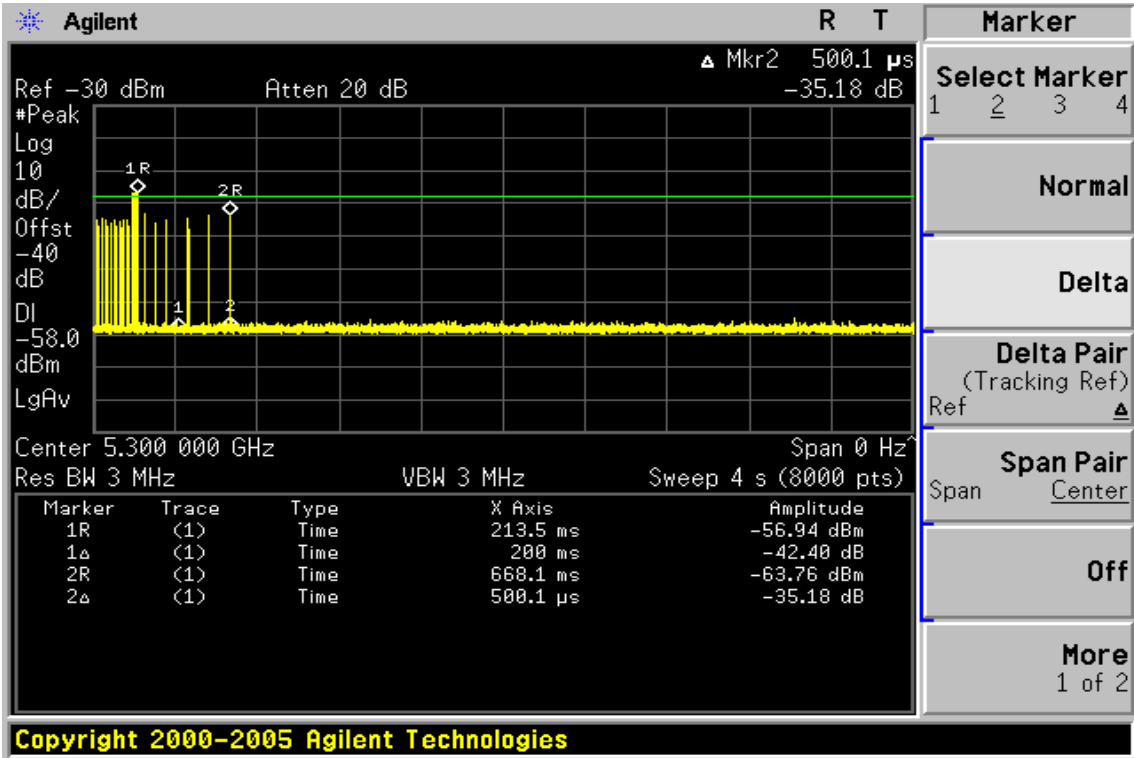


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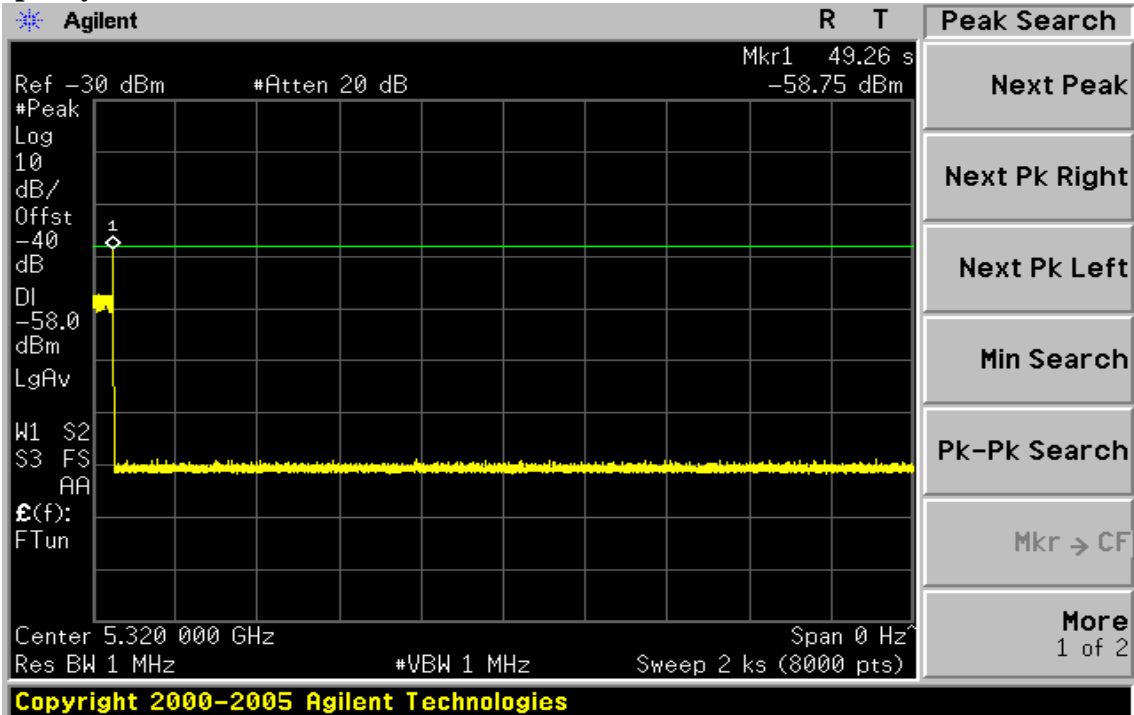
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Radar Type 1 Channel Closing Transmission Time



$500.1\mu s * 3 = 1.5ms$

Non-occupancy Period



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16. Maximum Permissible Exposure (MPE)

16.1 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 Permissive 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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16.2 Maximum Permissible Exposure (MPE) Evaluation

UNII

Cable loss = 0		Peak Power Output								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
36	5180	12.86	12.79	12.76	12.65	12.50	12.34	12.26	12.15	50mWatt = 17 dBm
44	5220	13.18	13.11	13.09	13.00	12.94	12.81	12.78	12.64	50mWatt = 17 dBm
48	5240	13.15	13.08	13.04	12.95	12.89	12.74	12.62	12.51	50mWatt = 17 dBm
52	5260	13.22	12.14	12.11	12.00	11.86	11.74	11.66	11.54	250mWatt = 24 dBm
60	5300	12.83	12.74	12.70	12.69	12.63	12.50	12.44	12.33	250mWatt = 24 dBm
64	5320	12.99	12.93	12.89	12.70	12.55	12.39	12.31	12.20	250mWatt = 24 dBm
100	5500	12.76	12.70	12.66	12.57	12.41	12.25	12.16	12.04	1 Watt = 30 dBm
116	5580	12.44	12.37	12.33	12.22	12.08	11.94	11.85	11.73	1 Watt = 30 dBm
140	5700	12.55	12.48	12.45	12.36	12.20	12.06	11.97	11.87	1 Watt = 30 dBm

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

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Maximum peak output power at antenna input terminal:	13.22	(dBm)
Maximum peak output power at antenna input terminal:	20.9893988	(mW)
Duty cycle:	100	(%)
Maximum Pav :	20.9893988	(mW)
Antenna gain (typical):	1.9	(dBi)
Maximum antenna gain:	1.54881662	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5260	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0064707	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0064707 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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UNII HT20

Cable loss = 0		Peak Power Output									
CH	Frequency (MHz)	Data Rate									Required Limit
		6.5	13	19.5	26	39	52	58.5	65	72	
36	5180	13.45	13.26	13.11	12.92	12.73	12.52	12.47	12.39	12.30	50mWatt= 17 dBm
44	5220	13.13	12.94	12.81	12.63	12.46	12.25	12.19	12.11	12.10	50mWatt= 17 dBm
48	5240	12.77	12.59	12.44	12.27	12.09	11.90	11.84	11.75	11.70	50mWatt= 17 dBm
52	5260	13.82	13.65	13.51	13.33	13.13	12.93	12.88	12.80	12.57	250mWatt = 24 dBm
60	5300	13.56	13.38	13.25	13.07	12.88	12.69	12.64	12.56	12.50	250mWatt = 24 dBm
64	5320	13.50	13.31	13.15	12.96	12.77	12.58	12.52	12.43	12.40	250mWatt = 24 dBm
100	5500	12.56	12.39	12.24	12.05	11.86	11.65	11.60	11.51	11.78	1 Watt = 30 dBm
116	5580	12.44	12.25	12.11	11.94	11.75	11.54	11.49	11.42	11.37	1 Watt = 30 dBm
140	5700	12.63	12.46	12.30	12.12	11.93	11.72	11.68	11.60	11.50	1 Watt = 30 dBm

MPE Prediction (802.11n_20M)

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

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Maximum peak output power at antenna input terminal:	13.82	(dBm)
Maximum peak output power at antenna input terminal:	24.0990543	(mW)
Duty cycle:	100	(%)
Maximum Pav :	24.0990543	(mW)
Antenna gain (typical):	3	(dBi)
Maximum antenna gain:	1.99526231	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5260	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0095708	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0095708 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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