

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	Tablet PC
Brand Name:	Sahara, Tabletkiosk, PaceBlade
Model Name of Host:	i500, TS500, SlimBook 240 Series
Model No. of WLAN	622ANHMW
Modular:	
Model Difference:	Different model for different market
FCC ID:	XHFTK500ABGNTS500
IC:	8434A-500TS500
Report No.:	EF/2011/10006
Issue Date:	Mar. 24, 2011
FCC Rule Part:	\$15.247
IC Rule Part:	RSS-210 issue 8:2010, Annex 8
Prepared for:	Tabletkiosk 2832 Columbia Street, Torrance, California 90503
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: Tabletkiosk
2832 Columbia Street, Torrance, California 90503

Product Name: Tablet PC

Brand Name: Sahara, Tabletkiosk, PaceBlade

FCC ID: XHFTK500ABGNTS500

IC: 8434A-500TS500

Model Name of Host: i500, TS500, SlimBook 240 Series

Model No. of WLAN

Modular: 622ANHMW

Model Difference: N/A

File Number: EF/2011/10006

Date of test: Jan. 28, 2011 ~ Mar. 23, 2011

Date of EUT Received: Jan. 28, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and RSS-Gen. issue 3 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 15.247 and IC RSS 210 issue 8: 2010 Annex 8.

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

Test By:



Date:

Mar. 24, 2011

Bondi Liu / Engineer

Prepared By:



Date:

Mar. 24, 2011

Gigi Yeh / Clerk

Approved By:



Date:

Mar. 24, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Mar. 24, 2011	Initial creation of document

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product name:	Tablet PC		
Brand Name:	Sahara, Tabletkiosk, PaceBlade		
Model Name:	i500, TS500, SlimBook 240 Series		
Model Difference:	Different model for different market		
WLAN module FCC ID:	PD9622ANXH		
WLAN module IC ID:	1000M-622ANH		
Power Supply:	11.1Vdc Li-Ion battery or 20Vdc from AC/DC power adapte		
	Battery:	Model: TSE57-3CLI, Supplier: T-Gee Electronics Co., LTD.	
	Adapter:	Model: PA-1650-68 Supplier: LITE-ON TECHNOLOGY CORPORATION	

WLAN: 802.11 a/b/g/n

Wi-Fi	Frequency Range (MHz)	Channels	Rated Power	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b : 16.52dBm g : 16.48dBm	b: 14M0G1D g: 16M6G1D	DSSS, OFDM
11n (2.4G Band)	HT20 2412-2462	11	n(20M) : 16.55 dBm	17M9G1D	OFDM
	HT40 2422-2452	9	n(40M): 16.55 dBm	36M0G1D	

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Wi-Fi	Frequency Range	Channels	Rated Power	Type of Emission	Modulation Technology
11a	5150~5250	4	16.50dBm	16M4G1D	OFDM
	5250~5350	4	16.42 dBm	16M4G1D	
	5470~5725	11	16.52dBm	16M4G1D	
11n	HT20 5150~5250	4	HT20:17.03dBm	17M6G1D	OFDM
	HT20 5250~5350	4	HT20:16.83dBm	17M6G1D	
	HT20 5470~5725	11	HT20:16.78dBm	17M6G1D	
11n	HT40 5150~5250	2	HT40:16.71dBm	36M0G1D	OFDM
	HT40 5250~5350	2	HT40:16.87dBm	36M0G1D	
	HT40 5470~5725	5	HT40:16.68dBm	36M0G1D	
11a	5725-5850	5	a : 16.68 dBm	16M4G1D	OFDM
11n (5GHz)	HT20 5725-5850	5	HT20: 16.67 dBm	17M6G1D	
	HT40 5725-5850	2	HT40: 16.58 dBm	36M9G1D	

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WLAN FCC Modular Report:	Supplier: AEGIS LABS Report Owner: Intel Model: 622ANHMW Report Number: INTEL-090601F
WLAN IC Modular Report:	Supplier: AEGIS LABS Report Owner: Intel Model: 622ANHMW Report Number: INTEL-090601IC
Antenna Designation	Antenna Type : PIFA Antenna A: (Aux) Antenna gain : (2.4G)-2.05 dBi, (5G) 2.69dBi Model No.: T12C-L Antenna B: (Main) Antenna gain : (2.4G)-1.03 dBi, (5G) 3.26dBi Model No.: T12C-R
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

This test report applies for 802.11a/b/g/n WLAN

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: XHF-TK500ABGNTS5XX** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules and **IC: 8434A-500TS5XX** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2010. 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 and RX frequency that was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as 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 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

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

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

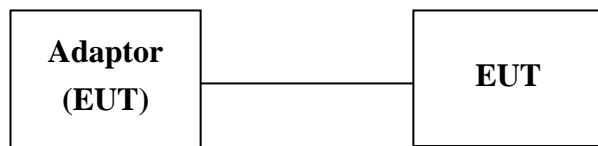


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	AC Adaptor	LITE-ON	PA-1650-68	N/A
2.	WLAN Software	Intel	OET-DRTU_1_3_11_0254_20110215	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)/ RSS-Gen §7.2.2	AC Power Line Conducted Emission	Compliant
§15.247(b)/ §A8.4(2)	Peak Output Power	Compliant
§15.247(b)/ §A8.2	6dB Bandwidth	Reference to modular report
§15.247(c)/ §A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c)/ §A8.5	Spurious Emission	Compliant
§15.247/,§A8.3(2)	Peak Power Density	Reference to modular report
§15.203/ RSS-GEN 7.1.4, RSS-210 issue 7,§A8.4	Antenna Requirement	Compliant
RSS-Gen §4.4.1	99% Power Bandwidth	Reference to modular report

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4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

802.11 b mode: Channel low (2412MHz)、 mid (2437MHz) and high (2462MHz) with 1Mbps data rate are chosen for above testing.

802.11 g mode: Channel low (2412MHz)、 mid (2437MHz) and high (2462MHz) with 6Mbps data rate are chosen for above testing.

802.11 n mode(20M): Channel low (2412MHz)、 mid (2437MHz) and high (2462MHz) with 6.5 Mbps data rate are chosen for conducted power testing.

802.11 n mode(40M): Channel low (2422MHz)、 mid (2437MHz) and high (2452MHz) with 13.5 Mbps data rate are chosen for conducted power testing.

802.11 a mode: Channel low (5745MHz)、 mid (5785MHz) and high (5825MHz) with 6Mbps highest data rate are chosen for full testing.

802.11 n (5GHz) _20MHz: Lowest (5745MHz), Mid (5785MHz) and high (5825MHz) with 6.5 Mbps highest data rate are chosen for above testing.

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5 OUTPUT POWER MEASUREMENT

5.1 Standard Applicable:

According to §15.247(a)(2), (b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

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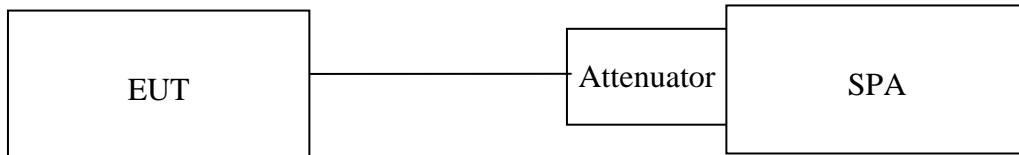
According to RSS-210 issue 8,§A8.4(4), for systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

5.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2011	02/21/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011

5.3 Test Set-up:



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5.4 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 =1, VBW = 3MHz, Bandwidth=26dB Emission Bandwidth)
3. Peak power is then measured using internal channel power integration function of SPA.
4. Power is integrated over a bandwidth greater than or equal to 26dBc bandwidth
5. Record the max.reading.
6. Repeat above procedures until all frequency measured was completed.

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5.5 Measurement Result:

Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBm)
802.11a	149	5745	A	6	16.50
802.11a	157	5785	A	6	16.68
802.11a	165	5825	A	6	16.22
802.11a	149	5745	B	6	16.40
802.11a	157	5785	B	6	16.53
802.11a	165	5825	B	6	16.44
802.11b	1	2412	A	1	16.42
802.11b	6	2437	A	1	16.31
802.11b	11	2462	A	1	16.46
802.11b	1	2412	B	1	16.52
802.11b	6	2437	B	1	16.37
802.11b	11	2462	B	1	16.52
802.11g	1	2412	A	6	15.21
802.11g	6	2437	A	6	16.48
802.11g	11	2462	A	6	15.35
802.11g	1	2412	B	6	15.51
802.11g	6	2437	B	6	16.31
802.11g	11	2462	B	6	15.63
802.11n(20MHz)	1	2412	A	HT0	14.62
802.11n(20MHz)	6	2437	A	HT0	16.41
802.11n(20MHz)	11	2463	A	HT0	14.30
802.11n(20MHz)	1	2412	B	HT0	14.51
802.11n(20MHz)	6	2437	B	HT0	16.31
802.11n(20MHz)	11	2463	B	HT0	14.20
802.11n(20MHz)	149	5745	A	HT0	16.33
802.11n(20MHz)	157	5785	A	HT0	16.28
802.11n(20MHz)	165	5825	A	HT0	16.42
802.11n(20MHz)	149	5745	B	HT0	16.56
802.11n(20MHz)	157	5785	B	HT0	15.32
802.11n(20MHz)	165	5825	B	HT0	16.41

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Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBm)
802.11n(40MHz)	3(F)	2422	A	HT0	12.10
802.11n(40MHz)	4(F)	2427	A	HT0	13.65
802.11n(40MHz)	6(F)	2437	A	HT0	16.31
802.11n(40MHz)	8(F)	2447	A	HT0	13.55
802.11n(40MHz)	9(F)	2452	A	HT0	12.06
802.11n(40MHz)	3(F)	2422	B	HT0	12.03
802.11n(40MHz)	4(F)	2427	B	HT0	13.55
802.11n(40MHz)	6(F)	2437	B	HT0	16.08
802.11n(40MHz)	8(F)	2447	B	HT0	13.55
802.11n(40MHz)	9(F)	2452	B	HT0	12.20
802.11n(40MHz)	151(F)	5755	A	HT0	16.33
802.11n(40MHz)	159(F)	5795	A	HT0	16.35
802.11n(40MHz)	151(F)	5755	B	HT0	16.48
802.11n(40MHz)	159(F)	5795	B	HT0	16.56

Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBm)
802.11n(20MHz)	1	2412	A+B	HT8	14.21
802.11n(20MHz)	6	2437	A+B	HT8	16.55
802.11n(20MHz)	11	2462	A+B	HT8	14.23
802.11n(40MHz)	3(F)	2422	A+B	HT8	12.11
802.11n(40MHz)	6(F)	2437	A+B	HT8	16.55
802.11n(40MHz)	9(F)	2452	A+B	HT8	12.23
802.11n(20MHz)	149	5745	A+B	HT8	16.67
802.11n(20MHz)	157	5785	A+B	HT8	16.55
802.11n(20MHz)	165	5825	A+B	HT8	16.63
802.11n(40MHz)	151(F)	5755	A+B	HT8	16.58
802.11n(40MHz)	159(F)	5795	A+B	HT8	16.48

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6 CONDUCTED EMISSION TEST

6.2. Standard Applicable:

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

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

Note

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

6.3. Measurement Equipment Used:

AC Power Line 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	02/02/2011	02/01/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2011	02/01/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

6.4. 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 EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.5. Measurement Procedure:

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

6.6. Measurement Result:

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

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

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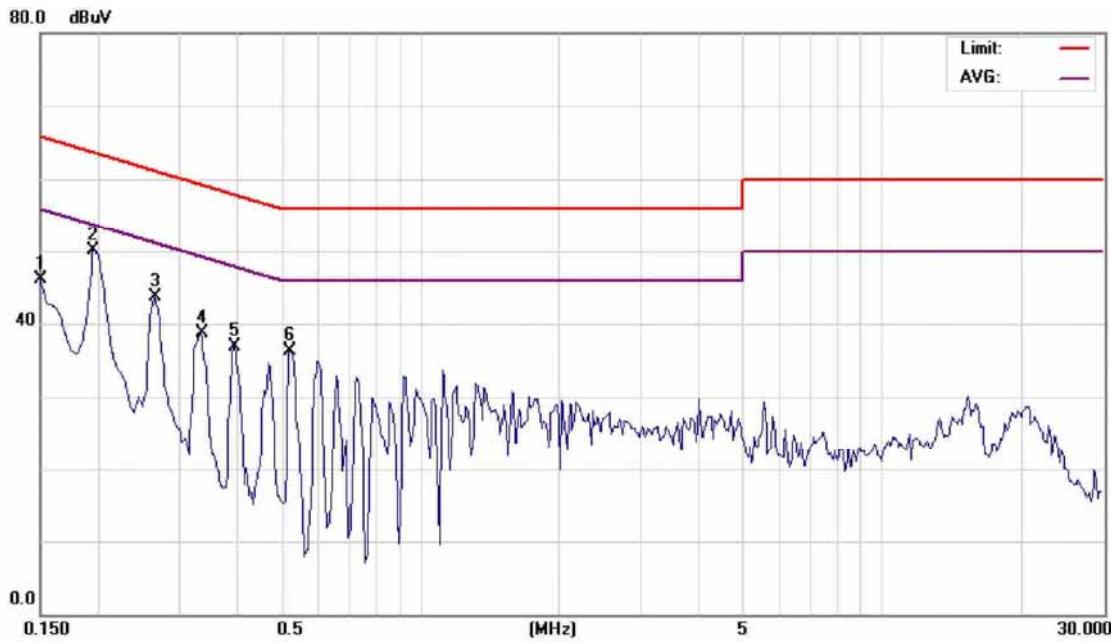
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	BT + WLAN Data Link – Adapter 1		Test Date:	Mar. 24, 2011
Temperature:	24	Humidity:	60%	Test By: Bondi



Site: SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: TabletPC
 M/N: TK500
 Note: BT + WLANmode
 Adaptor : LI SHIN / 0335A2065

Phase: **L1**
 Temperature: 23 °C
 Power: AC 120V/60Hz
 Humidity: 59%
 Distance: Air Pressure: hpa

No.	Mk.	Freq.	Reading	Factor	Measure- ment	Limit	Over	Detector	Comment
			Level						
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	45.99	0.14	46.13	66.00	-19.87	peak	
2	*	0.1950	49.99	0.12	50.11	63.82	-13.71	peak	
3		0.2650	43.65	0.12	43.77	61.27	-17.50	peak	
4		0.3350	38.57	0.12	38.69	59.33	-20.64	peak	
5		0.3950	36.88	0.12	37.00	57.96	-20.96	peak	
6		0.5200	36.12	0.12	36.24	56.00	-19.76	peak	

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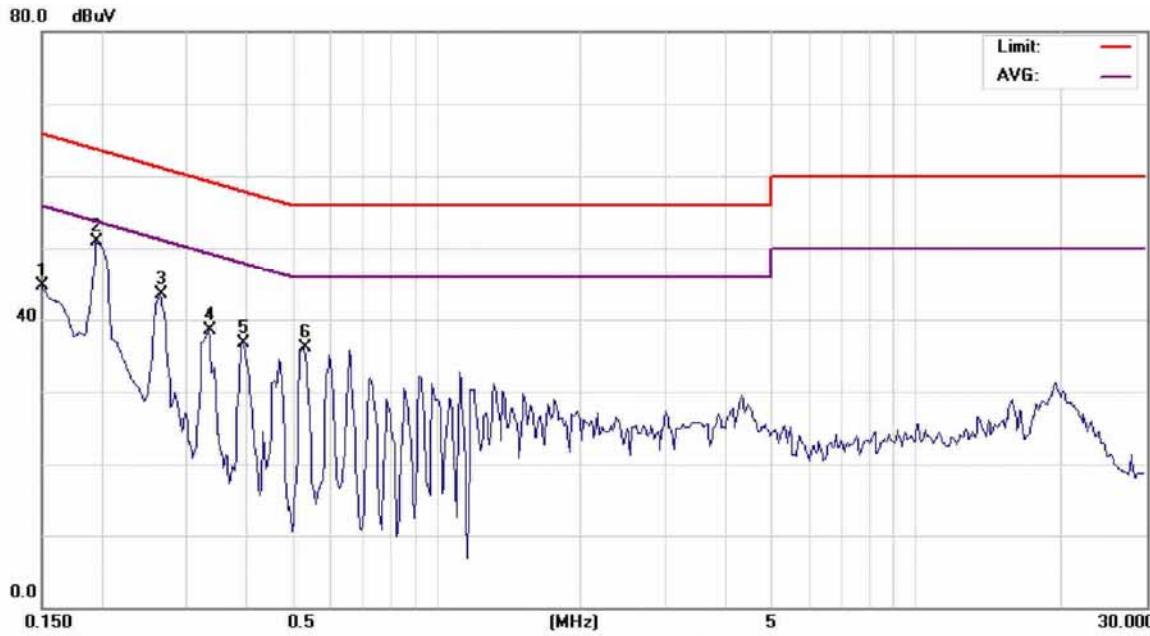
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 59%

EUT: TabletPC

Distance:

Air Pressure: hpa

M/N: TK500

Note: BT + WLANmode

Adaptor : LI SHIN / 0335A2065

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		Comment
							MHz	dBuV	dB
1		0.1500	44.52	0.19	44.71	66.00	-21.29		peak
2 *		0.1950	50.65	0.16	50.81	63.82	-13.01		peak
3		0.2650	43.31	0.16	43.47	61.27	-17.80		peak
4		0.3350	38.31	0.16	38.47	59.33	-20.86		peak
5		0.3950	36.47	0.16	36.63	57.96	-21.33		peak
6		0.5300	35.92	0.16	36.08	56.00	-19.92		peak

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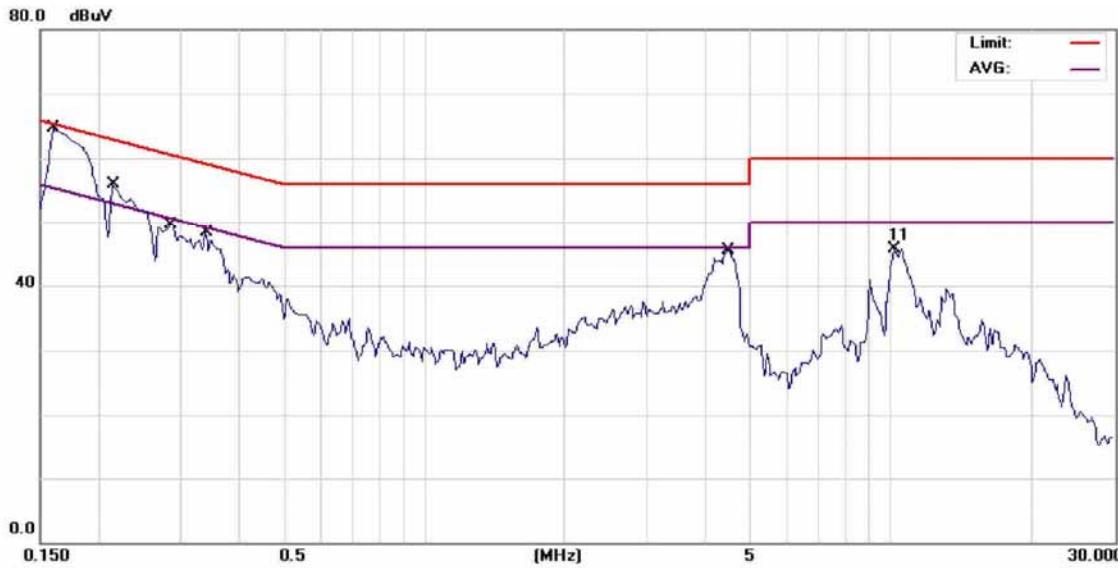
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Operation Mode:	BT + WLAN Data Link – Adapter 2			Test Date:	Mar. 24, 2011
Temperature:	24	Humidity:	60%	Test By:	Arno



Site: SGS CONDUCTED #1 Phase: **L1** Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59%
 EUT: TabletPC Distance: Air Pressure: hpa
 M/N: TK500
 Note: BT + WLANmode
 Adaptor: LITE-ON / PA-1650-68

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1	*	0.1617	61.18	0.13	61.31	65.38	-4.07	QP	
2		0.1617	41.30	0.13	41.43	55.38	-13.95	AVG	
3		0.2160	51.50	0.12	51.62	62.97	-11.35	QP	
4		0.2160	29.37	0.12	29.49	52.97	-23.48	AVG	
5		0.2845	44.05	0.12	44.17	60.68	-16.51	QP	
6		0.2845	28.65	0.12	28.77	50.68	-21.91	AVG	
7		0.3387	42.28	0.12	42.40	59.24	-16.84	QP	
8		0.3387	25.74	0.12	25.86	49.24	-23.38	AVG	
9		4.4768	38.53	0.18	38.71	56.00	-17.29	QP	
10		4.4768	27.54	0.18	27.72	46.00	-18.28	AVG	
11		10.2000	45.22	0.45	45.67	60.00	-14.33	peak	

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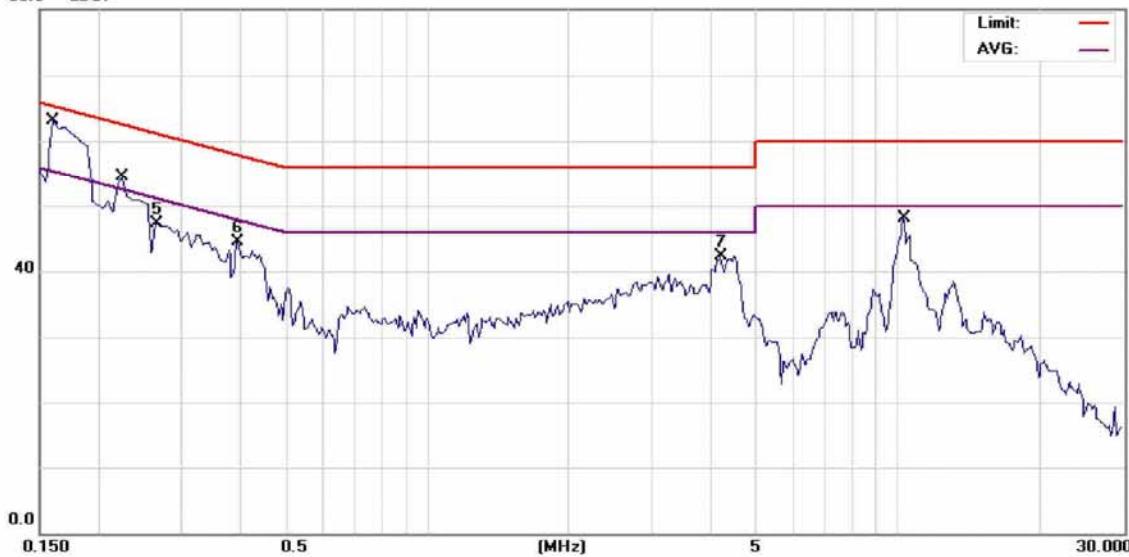
File : (EF-2011-10005-11)Tablet

Data #4

Date: 2011/6/8

Time: 下午 06:01:24

80.0 dBuV



Site: SGS CONDUCTED #1

 Phase: **N**

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 59%

EUT: TabletPC

Distance:

Air Pressure: hpa

M/N: TK500

Note: BT + WLAN mode

Adaptor: LITE-ON / PA-1650-68

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1	*	0.1617	57.68	0.18	57.86	65.38	-7.52	QP	
2		0.1617	39.50	0.18	39.68	55.38	-15.70	AVG	
3		0.2243	48.43	0.16	48.59	62.66	-14.07	QP	
4		0.2243	31.86	0.16	32.02	52.66	-20.64	AVG	
5		0.2650	47.18	0.16	47.34	61.27	-13.93	peak	
6		0.3950	44.44	0.16	44.60	57.96	-13.36	peak	
7		4.2100	42.07	0.21	42.28	56.00	-13.72	peak	
8		10.3291	41.50	0.48	41.98	60.00	-18.02	QP	
9		10.3291	34.27	0.48	34.75	50.00	-15.25	AVG	

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7 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

7.1 Standard Applicable:

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

According to RSS-210 issue 8, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

7.2 Measurement Equipment Used:

7.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

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7.2.2. Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/29/2009	11/28/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2010	11/29/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

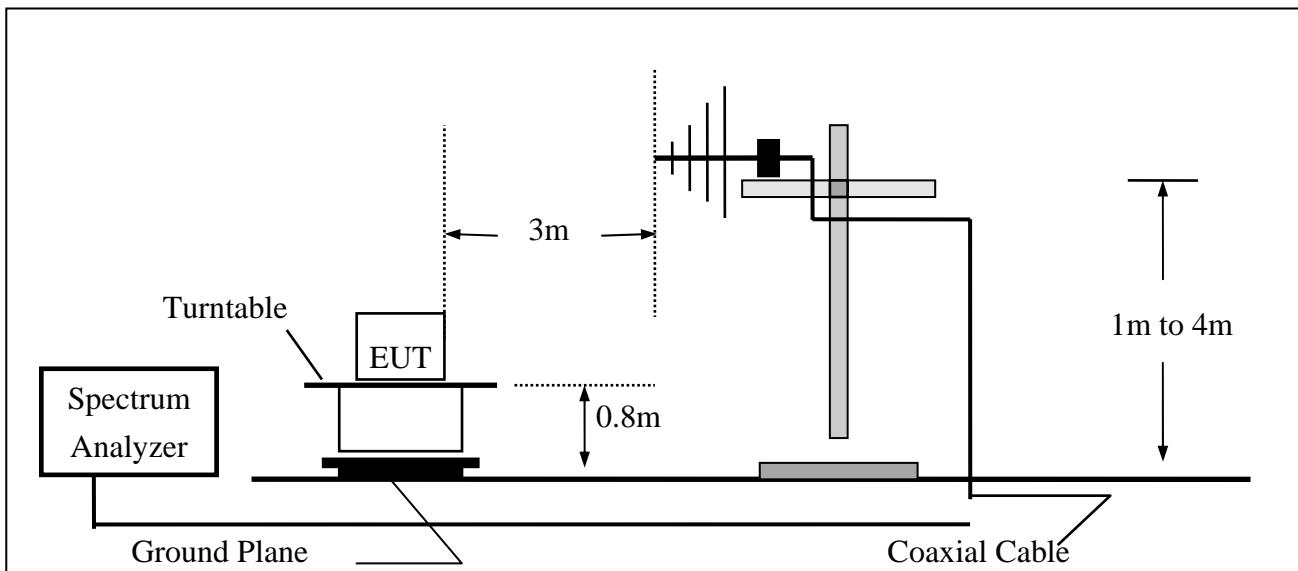
7.3 Test SET-UP:

7.3.1 Conducted Emission at antenna port:

Refer to section 6.3 for details.

7.3.2 Radiated emission:

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



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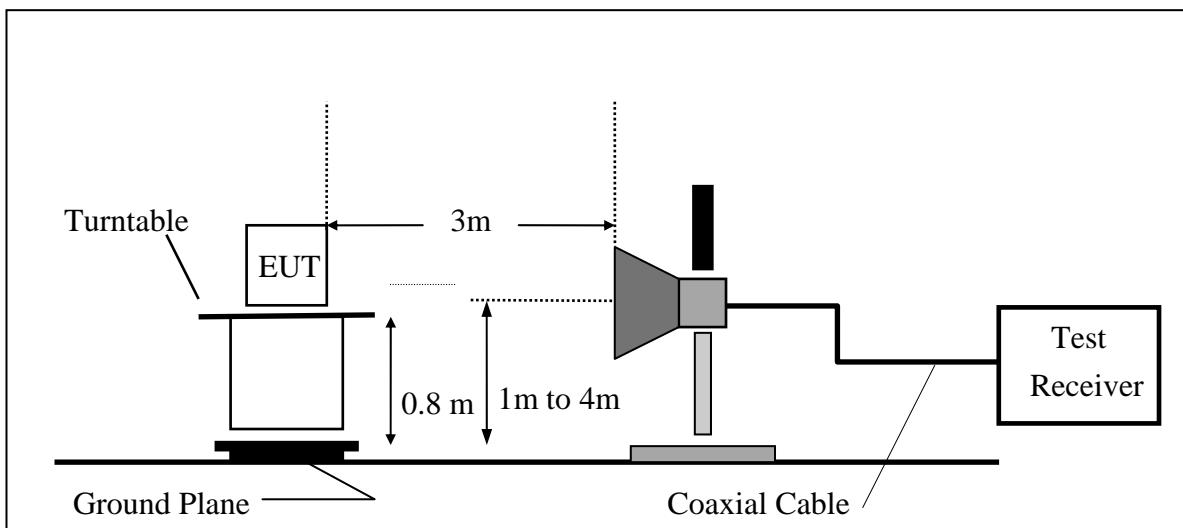
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



7.4 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 center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz, 5,725 and 5,850GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

7.5 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	

7.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

For the measurement of conducted band edge, refer to them from the original modular report: *FCC: INTEL-090601F / IC: INTEL-090601IC*

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Radiated Emission: 802.11 b (2.4GHz) mode (Antenna B)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	41.35	---	-1.06	40.29	---	74.00	54.00	-13.71 Peak

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	42.76	---	-1.06	41.70	---	74.00	54.00	-12.30 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: 802.11 b (2.4GHz) mode (Antenna B)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	47.70	---	-0.59	47.11	---	74.00	54.00	-6.89 Peak

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	51.88	---	-0.59	51.29	---	74.00	54.00	-2.71 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: 802.11 g (2.4GHz) mode (Antenna A)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	71.59	54.02	-1.06	70.53	52.96	74.00	54.00	-1.04 Avg

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	73.96	54.13	-1.06	72.90	53.07	74.00	54.00	-0.93 Avg

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: 802.11 g (2.4GHz) mode (Antenna A)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	65.34	47.55	-0.59	64.75	46.96	74.00	54.00	-7.04 Avg

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	69.10	51.86	-0.59	68.51	51.27	74.00	54.00	-2.73 Avg

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: 802.11 g/n (2.4GHz)_20M mode (Antenna A+B)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	63.17	49.00	-1.06	62.11	47.94	74.00	54.00	-6.06 Avg

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	68.17	52.24	-1.06	67.11	51.18	74.00	54.00	-2.82 Avg

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: 802.11 g/n (2.4GHz)_20M mode (Antenna A+B)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	60.20	46.21	-0.59	59.61	45.62	74.00	54.00	-8.38 Avg

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2483.50	64.32	50.18	-0.59	63.73	49.59	74.00	54.00	-4.41 Avg

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: 802.11 g/n (2.4GHz) 40M mode (Antenna A+B)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2422 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	67.72	49.96	-1.06	66.66	48.90	74.00	54.00	-5.10 Avg

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2422 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
2390.00	72.21	54.06	-1.06	71.15	53.00	74.00	54.00	-1.00 Avg

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: 802.11 g/n(2.4GHz)_40M mode (Antenna A+B)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2452 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
2483.50	66.35	49.11	-0.59	65.76	48.52	74.00	54.00	-5.48 Avg

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2452 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
2483.50	71.39	53.90	-0.59	70.80	53.31	74.00	54.00	-0.69 Avg

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: 802.11 a (5G) mode (Antenna A)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5725.00	63.68	45.32	7.32	71.00	52.64	74.00	54.00	-1.36 AV

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
5725.00	64.51	46.21	7.32	71.83	53.53	74.00	54.00	-0.47 AV

Remark:

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

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Radiated Emission: 802.11 (5G) mode (Antenna A)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5850.00	57.01	43.55	7.58	64.59	51.13	74.00	54.00	-2.87 AV

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5850.00	56.85	43.44	7.58	64.43	51.02	74.00	54.00	-2.98 AV

Remark:

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

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Radiated Emission: 802.11n(5Ghz)_20M mode (Antenna A+B)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5725.00	62.33	46.13	7.32	69.65	53.45	74.00	54.00	-0.55 AV

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5725.00	60.90	47.29	5.95	66.85	53.24	74.00	54.00	-0.76 AV

Remark:

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

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Radiated Emission: 802.11n(5Ghz)_20M mode (Antenna A+B)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5850.00	54.81	43.21	7.58	62.39	50.79	74.00	54.00	-3.21 AV

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
5850.00	58.21	45.08	7.58	65.79	52.66	74.00	54.00	-1.34 AV

Remark:

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

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Radiated Emission: 802.11n(5Ghz)_40M mode (Antenna A+B)

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak			AV		Actual FS			Peak			AV	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak	AV	(dBuV/m)	Limit	Limit	Margin	Remark	(dBuV/m)	(dBuV/m)	(dB)
5725.00	60.95	46.11	7.33	68.28	53.44	74.00	74.00	54.00	-0.56	AV			

Operation Mode	TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak			AV		Actual FS			Peak			AV	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak	AV	(dBuV/m)	Limit	Limit	Margin	Remark	(dBuV/m)	(dBuV/m)	(dB)
5725.00	62.25	46.23	7.33	69.58	53.56	74.00	74.00	54.00	-0.44	AV			

Remark:

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

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Radiated Emission: 802.11n(5Ghz)_40M mode (Antenna A+B)

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak			AV		Actual FS			Peak			AV	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak	AV	(dBuV/m)	Limit	Limit	Margin	Remark	(dBuV/m)	(dBuV/m)	(dB)
5850.00	49.33	38.74	7.58	56.91	46.32	74.00	54.00	-	-7.68	AV			

Operation Mode	TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825 MHz	Test By	Bondi
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak			AV		Actual FS			Peak			AV	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak	AV	(dBuV/m)	Limit	Limit	Margin	Remark	(dBuV/m)	(dBuV/m)	(dB)
5850.00	51.43	39.64	7.58	59.01	47.22	74.00	54.00	-	-6.78	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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8 SPURIOUS RADIATED EMISSION TEST

8.1 Standard Applicable

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-210 issue 8,§A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3

8.2 Measurement Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

Refer to section 7.2.2 for details.

8.3 Test SET-UP:

8.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

8.3.2. Radiated emission:

Refer to section 7.3 for details.

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8.4 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. When 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.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

8.5 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	

8.6 Measurement Result:

For the measurement of conducted spurious emission, refer to them from the original modular report:

FCC: INTEL-090601F / IC: INTEL-090601IC

Note: Refer to next page spectrum analyzer data chart and tabular data sheets for radiated emission.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

Operation Mode 802.11b TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2412MHz Test By Bondi
Temperature 25 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)
127.00	V	Peak	48.55	-14.09	34.46	43.50	-9.04
228.85	V	Peak	41.64	-14.56	27.08	46.00	-18.92
299.66	V	Peak	44.81	-12.45	32.36	46.00	-13.64
398.60	V	Peak	49.96	-10.93	39.03	46.00	-6.97
422.85	V	Peak	52.37	-10.42	41.95	46.00	-4.05
532.46	V	Peak	48.10	-8.48	39.62	46.00	-6.38
151.25	H	Peak	39.78	-12.20	27.58	43.50	-15.92
248.25	H	Peak	45.74	-13.91	31.83	46.00	-14.17
272.50	H	Peak	50.24	-13.12	37.12	46.00	-8.88
393.75	H	Peak	47.70	-11.00	36.70	46.00	-9.30
427.70	H	Peak	43.73	-10.29	33.44	46.00	-12.56
534.40	H	Peak	39.87	-8.44	31.43	46.00	-14.57

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) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	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)
128.94	V	Peak	48.58	-13.97	34.61	43.50	-8.89
228.85	V	Peak	41.20	-14.56	26.64	46.00	-19.36
299.66	V	Peak	44.43	-12.45	31.98	46.00	-14.02
396.66	V	Peak	49.43	-10.94	38.49	46.00	-7.51
422.85	V	Peak	52.34	-10.42	41.92	46.00	-4.08
532.46	V	Peak	47.63	-8.48	39.15	46.00	-6.85
136.70	H	Peak	41.49	-13.26	28.23	43.50	-15.27
248.25	H	Peak	45.86	-13.91	31.95	46.00	-14.05
277.35	H	Peak	49.47	-13.01	36.46	46.00	-9.54
396.66	H	Peak	47.36	-10.94	36.42	46.00	-9.58
422.85	H	Peak	42.67	-10.42	32.25	46.00	-13.75
532.46	H	Peak	40.21	-8.48	31.73	46.00	-14.27

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) (802.11b)

Operation Mode 802.11b TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	48.77	-13.97	34.80	43.50	-8.70
248.25	V	Peak	40.97	-13.91	27.06	46.00	-18.94
299.66	V	Peak	43.46	-12.45	31.01	46.00	-14.99
390.84	V	Peak	48.97	-11.03	37.94	46.00	-8.06
425.76	V	Peak	52.54	-10.33	42.21	46.00	-3.79
532.46	V	Peak	49.31	-8.48	40.83	46.00	-5.17
151.25	H	Peak	39.61	-12.20	27.41	43.50	-16.09
248.25	H	Peak	46.54	-13.91	32.63	46.00	-13.37
280.26	H	Peak	49.14	-12.95	36.19	46.00	-9.81
398.60	H	Peak	46.69	-10.93	35.76	46.00	-10.24
427.70	H	Peak	42.65	-10.29	32.36	46.00	-13.64
532.46	H	Peak	39.03	-8.48	30.55	46.00	-15.45

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) (802.11g)

Operation Mode 802.11g TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2412MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	47.73	-13.97	33.76	43.50	-9.74
228.85	V	Peak	41.16	-28.82	-14.56	46.00	-60.56
301.60	V	Peak	44.72	-30.89	-12.41	46.00	-58.41
393.75	V	Peak	50.38	-28.73	-11.00	46.00	-57.00
425.76	V	Peak	52.40	-22.52	-10.33	46.00	-56.33
534.40	V	Peak	46.21	-20.08	-8.44	46.00	-54.44
146.40	H	Peak	39.68	-12.51	27.17	43.50	-16.33
243.40	H	Peak	45.39	-13.99	31.40	46.00	-14.60
277.35	H	Peak	49.25	-13.01	36.24	46.00	-9.76
400.54	H	Peak	46.15	-10.91	35.24	46.00	-10.76
415.09	H	Peak	43.16	-10.58	32.58	46.00	-13.42
532.46	H	Peak	37.63	-8.48	29.15	46.00	-16.85

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) (802.11g)

Operation Mode	802.11g TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	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)
131.85	V	Peak	47.65	-13.72	33.93	43.50	-9.57
243.40	V	Peak	40.68	-13.99	26.69	46.00	-19.31
301.60	V	Peak	44.97	-12.41	32.56	46.00	-13.44
393.75	V	Peak	50.11	-11.00	39.11	46.00	-6.89
425.76	V	Peak	52.13	-10.33	41.80	46.00	-4.20
532.46	V	Peak	47.64	-8.48	39.16	46.00	-6.84
119.24	H	Peak	41.68	-14.63	27.05	43.50	-16.45
250.19	H	Peak	45.55	-13.88	31.67	46.00	-14.33
267.65	H	Peak	49.86	-13.30	36.56	46.00	-9.44
393.75	H	Peak	46.91	-11.00	35.91	46.00	-10.09
427.70	H	Peak	42.45	-10.29	32.16	46.00	-13.84
652.74	H	Peak	35.22	-5.97	29.25	46.00	-16.75

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) (802.11g)

Operation Mode 802.11g TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	47.86	-13.97	33.89	43.50	-9.61
250.19	V	Peak	40.75	-13.88	26.87	46.00	-19.13
299.66	V	Peak	44.82	-12.45	32.37	46.00	-13.63
390.84	V	Peak	50.49	-11.03	39.46	46.00	-6.54
425.76	V	Peak	52.25	-10.33	41.92	46.00	-4.08
532.46	V	Peak	46.48	-8.48	38.00	46.00	-8.00
134.76	H	Peak	42.79	-13.41	29.38	43.50	-14.12
248.25	H	Peak	45.69	-13.91	31.78	46.00	-14.22
282.20	H	Peak	49.49	-12.90	36.59	46.00	-9.41
396.66	H	Peak	47.50	-10.94	36.56	46.00	-9.44
427.70	H	Peak	42.47	-10.29	32.18	46.00	-13.82
665.35	H	Peak	35.15	-5.72	29.43	46.00	-16.57

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) (802.11n_20M)

Operation Mode 802.11n_20M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2412MHz Test By Bondi
Temperature 25 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)
125.06	V	Peak	50.71	-14.21	36.50	43.50	-7.00
228.85	V	Peak	41.60	-14.56	27.04	46.00	-18.96
301.60	V	Peak	43.72	-12.41	31.31	46.00	-14.69
388.90	V	Peak	49.52	-11.05	38.47	46.00	-7.53
425.76	V	Peak	52.08	-10.33	41.75	46.00	-4.25
534.40	V	Peak	48.10	-8.44	39.66	46.00	-6.34
175.50	H	Peak	41.55	-13.79	27.76	43.50	-15.74
250.19	H	Peak	45.86	-13.88	31.98	46.00	-14.02
270.56	H	Peak	49.03	-13.17	35.86	46.00	-10.14
396.66	H	Peak	47.89	-10.94	36.95	46.00	-9.05
422.85	H	Peak	42.84	-10.42	32.42	46.00	-13.58
534.40	H	Peak	38.24	-8.44	29.80	46.00	-16.20

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) (802.11n_20M)

Operation Mode	802.11g/n_20M TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	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)
127.00	V	Peak	49.20	-14.09	35.11	43.50	-8.39
228.85	V	Peak	41.49	-14.56	26.93	46.00	-19.07
299.66	V	Peak	44.58	-12.45	32.13	46.00	-13.87
396.66	V	Peak	52.12	-10.94	41.18	46.00	-4.82
427.70	V	Peak	52.17	-10.29	41.88	46.00	-4.12
534.40	V	Peak	49.02	-8.44	40.58	46.00	-5.42
151.25	H	Peak	39.29	-12.20	27.09	43.50	-16.41
243.40	H	Peak	45.73	-13.99	31.74	46.00	-14.26
267.65	H	Peak	49.45	-13.30	36.15	46.00	-9.85
393.75	H	Peak	46.94	-11.00	35.94	46.00	-10.06
427.70	H	Peak	43.04	-10.29	32.75	46.00	-13.25
534.40	H	Peak	41.53	-8.44	33.09	46.00	-12.91

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) (802.11n_20M)

Operation Mode 802.11g/n_20M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	47.51	-13.97	33.54	43.50	-9.96
231.76	V	Peak	41.44	-14.38	27.06	46.00	-18.94
299.66	V	Peak	43.44	-12.45	30.99	46.00	-15.01
390.84	V	Peak	52.33	-11.03	41.30	46.00	-4.70
425.76	V	Peak	52.55	-10.33	42.22	46.00	-3.78
532.46	V	Peak	46.17	-8.48	37.69	46.00	-8.31
151.25	H	Peak	39.82	-12.20	27.62	43.50	-15.88
248.25	H	Peak	45.92	-13.91	32.01	46.00	-13.99
270.56	H	Peak	49.19	-13.17	36.02	46.00	-9.98
400.54	H	Peak	46.54	-10.91	35.63	46.00	-10.37
427.70	H	Peak	42.58	-10.29	32.29	46.00	-13.71
532.46	H	Peak	37.66	-8.48	29.18	46.00	-16.82

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) (802.11n_40M)

Operation Mode	802.11g/n_40M TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2422MHz	Test By	Bondi
Temperature	25	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)
128.94	V	Peak	48.10	-13.97	34.13	43.50	-9.37
248.25	V	Peak	40.58	-13.91	26.67	46.00	-19.33
299.66	V	Peak	44.48	-12.45	32.03	46.00	-13.97
398.60	V	Peak	49.11	-10.93	38.18	46.00	-7.82
425.76	V	Peak	53.15	-10.33	42.82	46.00	-3.18
532.46	V	Peak	49.67	-8.48	41.19	46.00	-4.81
151.25	H	Peak	39.46	-12.20	27.26	43.50	-16.24
248.25	H	Peak	45.95	-13.91	32.04	46.00	-13.96
272.50	H	Peak	49.39	-13.12	36.27	46.00	-9.73
388.90	H	Peak	48.56	-11.05	37.51	46.00	-8.49
416.06	H	Peak	43.11	-10.58	32.53	46.00	-13.47
532.46	H	Peak	38.89	-8.48	30.41	46.00	-15.59

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) (802.11n_40M)

Operation Mode 802.11g/n_40M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 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)
131.-85	V	Peak	47.30	-13.72	33.58	54.00	-20.42
228.85	V	Peak	41.76	-14.56	27.20	46.00	-18.80
301.60	V	Peak	45.24	-12.41	32.83	46.00	-13.17
396.66	V	Peak	49.24	-10.94	38.30	46.00	-7.70
422.85	V	Peak	52.46	-10.42	42.04	46.00	-3.96
534.40	V	Peak	46.26	-8.44	-1.49	46.00	-47.49
151.25	H	Peak	39.77	-12.20	27.57	43.50	-15.93
248.25	H	Peak	45.57	-13.91	31.66	46.00	-14.34
267.65	H	Peak	49.36	-13.30	36.06	46.00	-9.94
393.75	H	Peak	46.52	-11.00	35.52	46.00	-10.48
427.70	H	Peak	43.12	-10.29	32.83	46.00	-13.17
532.46	H	Peak	39.66	-8.48	31.18	46.00	-14.82

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) (802.11n_40M)

Operation Mode 802.11g/n_40M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2452MHz Test By Bondi
Temperature 25 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)
131.85	V	Peak	49.33	-13.72	35.61	43.50	-7.89
228.85	V	Peak	40.95	-14.56	26.39	46.00	-19.61
301.60	V	Peak	44.27	-12.41	31.86	46.00	-14.14
398.60	V	Peak	51.19	-10.93	40.26	46.00	-5.74
425.76	V	Peak	52.40	-10.33	42.07	46.00	-3.93
534.40	V	Peak	46.44	-8.44	38.00	46.00	-8.00
158.04	H	Peak	39.20	-12.00	27.20	43.50	-16.30
248.25	H	Peak	45.65	-13.91	31.74	46.00	-14.26
284.14	H	Peak	49.08	-12.86	36.22	46.00	-9.78
396.66	H	Peak	48.18	-10.94	37.24	46.00	-8.76
427.70	H	Peak	43.01	-10.29	32.72	46.00	-13.28
672.14	H	Peak	34.96	-5.65	29.31	46.00	-16.69

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) (802.11a)

Operation Mode	802.11a TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745MHz	Test By	Bondi
Temperature	25	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)
128.94	V	Peak	48.01	-13.97	34.04	43.50	-9.46
228.85	V	Peak	41.48	-14.56	26.92	46.00	-19.08
299.66	V	Peak	45.11	-12.45	32.66	46.00	-13.34
400.54	V	Peak	48.95	-10.91	38.04	46.00	-7.96
425.76	V	Peak	52.49	-10.33	42.16	46.00	-3.84
532.46	V	Peak	48.66	-8.48	40.18	46.00	-5.82
151.25	H	Peak	39.35	-12.20	27.15	43.50	-16.35
241.46	H	Peak	46.02	-14.03	31.99	46.00	-14.01
267.65	H	Peak	51.10	-13.30	37.80	46.00	-8.20
398.60	H	Peak	48.43	-10.93	37.50	46.00	-8.50
427.70	H	Peak	42.95	-10.29	32.66	46.00	-13.34
534.40	H	Peak	38.08	-8.44	29.64	46.00	-16.36

Remark :

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

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) (802.11a)

Operation Mode	802.11a TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	5785MHz	Test By	Bondi
Temperature	25	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)
131.85	V	Peak	48.78	-13.72	35.06	43.50	-8.44
243.4	V	Peak	40.93	-13.99	26.94	46.00	-19.06
299.66	V	Peak	44.72	-12.45	32.27	46.00	-13.73
393.75	V	Peak	49.97	-11	38.97	46.00	-7.03
425.76	V	Peak	52.51	-10.33	42.18	46.00	-3.82
534.4	V	Peak	45.79	-8.44	37.35	46.00	-8.65
141.55	H	Peak	40.13	-12.95	27.18	43.50	-16.32
248.25	H	Peak	45.95	-13.91	32.04	46.00	-13.96
287.05	H	Peak	49.12	-12.77	36.35	46.00	-9.65
396.66	H	Peak	47.1	-10.94	36.16	46.00	-9.84
427.7	H	Peak	43.35	-10.29	33.06	46.00	-12.94
532.46	H	Peak	38.71	-8.48	30.23	46.00	-15.77

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) (802.11a)

Operation Mode	802.11a TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825MHz	Test By	Bondi
Temperature	25	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)
131.85	V	Peak	46.7	-13.72	32.98	43.50	-10.52
228.85	V	Peak	41.54	-14.56	26.98	46.00	-19.02
301.6	V	Peak	43.63	-12.41	31.22	46.00	-14.78
393.75	V	Peak	51.79	-11	40.79	46.00	-5.21
425.76	V	Peak	52.77	-10.33	42.44	46.00	-3.56
534.4	V	Peak	46.9	-8.44	38.46	46.00	-7.54
154.16	H	Peak	39.11	-12.18	26.93	43.50	-16.57
248.25	H	Peak	46.23	-13.91	32.32	46.00	-13.68
282.2	H	Peak	49.21	-12.9	36.31	46.00	-9.69
390.84	H	Peak	46.95	-11.03	35.92	46.00	-10.08
427.7	H	Peak	42.67	-10.29	32.38	46.00	-13.62
532.46	H	Peak	38.13	-8.48	29.65	46.00	-16.35

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) (802.11n(5GHz)_20M)

Operation Mode 802.11a/n_20M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 5745MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	47.59	-13.97	33.62	43.50	-9.88
231.76	V	Peak	41.33	-14.38	26.95	46.00	-19.05
299.66	V	Peak	44.52	-12.45	32.07	46.00	-13.93
393.75	V	Peak	48.40	-11.00	37.40	46.00	-8.60
425.76	V	Peak	52.66	-10.33	42.33	46.00	-3.67
534.40	V	Peak	47.84	-8.44	39.40	46.00	-6.60
154.16	H	Peak	39.27	-12.18	27.09	43.50	-16.41
243.40	H	Peak	46.19	-13.99	32.20	46.00	-13.80
280.26	H	Peak	49.63	-12.95	36.68	46.00	-9.32
393.75	H	Peak	45.86	-11.00	34.86	46.00	-11.14
427.70	H	Peak	43.17	-10.29	32.88	46.00	-13.12
532.46	H	Peak	39.14	-8.48	30.66	46.00	-15.34

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) (802.11n(5GHz)_20M)

Operation Mode	802.11a/n_20M TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	5785MHz	Test By	Bondi
Temperature	25	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)
131.85	V	Peak	47.10	-13.72	33.38	43.50	-10.12
228.85	V	Peak	41.44	-14.56	26.88	46.00	-19.12
301.60	V	Peak	41.42	-12.41	29.01	46.00	-16.99
393.75	V	Peak	53.46	-11.00	42.46	46.00	-3.54
425.76	V	Peak	53.40	-10.33	43.07	46.00	-2.93
534.40	V	Peak	43.54	-8.44	35.10	46.00	-10.90
154.16	H	Peak	39.41	-12.18	27.23	43.50	-16.27
212.36	H	Peak	46.70	-15.58	31.12	43.50	-12.38
282.20	H	Peak	49.47	-12.90	36.57	46.00	-9.43
400.54	H	Peak	45.13	-10.91	34.22	46.00	-11.78
425.76	H	Peak	42.83	-10.33	32.50	46.00	-13.50
691.54	H	Peak	35.42	-5.39	30.03	46.00	-15.97

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) (802.11n(5GHz)_20M)

Operation Mode 802.11a/n_20M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 5825MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	47.46	-13.97	33.49	43.50	-10.01
228.85	V	Peak	41.98	-14.56	27.42	46.00	-18.58
301.60	V	Peak	41.38	-12.41	28.97	46.00	-17.03
400.54	V	Peak	49.64	-10.91	38.73	46.00	-7.27
425.76	V	Peak	53.06	-10.33	42.73	46.00	-3.27
534.40	V	Peak	48.91	-8.44	40.47	46.00	-5.53
177.44	H	Peak	41.46	-14.09	27.37	43.50	-16.13
212.36	H	Peak	46.93	-15.58	31.35	43.50	-12.15
267.65	H	Peak	50.09	-13.30	36.79	46.00	-9.21
396.66	H	Peak	49.01	-10.94	38.07	46.00	-7.93
425.76	H	Peak	42.74	-10.33	32.41	46.00	-13.59
691.54	H	Peak	35.43	-5.39	30.04	46.00	-15.96

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) (802.11n(5GHz)_40M)

Operation Mode	802.11a/n_40M TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5755MHz	Test By	Bondi
Temperature	25	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)
128.94	V	Peak	43.39	-13.97	29.42	43.50	-14.08
224.00	V	Peak	42.16	-14.82	27.34	46.00	-18.66
299.66	V	Peak	41.87	-12.45	29.42	46.00	-16.58
425.76	V	Peak	49.00	-10.33	38.67	46.00	-7.33
505.30	V	Peak	39.93	-9.02	30.91	46.00	-15.09
864.20	V	Peak	35.72	-3.01	32.71	46.00	-13.29
151.25	H	Peak	39.68	-12.20	27.48	43.50	-16.02
212.36	H	Peak	45.71	-15.58	30.13	43.50	-13.37
274.44	H	Peak	48.66	-13.06	35.60	46.00	-10.40
427.70	H	Peak	42.89	-10.29	32.60	46.00	-13.40
500.45	H	Peak	35.31	-9.09	26.22	46.00	-19.78
864.20	H	Peak	34.45	-3.01	31.44	46.00	-14.56

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) (802.11n(5GHz)_40M)

Operation Mode 802.11a/n_40M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 5795MHz Test By Bondi
Temperature 25 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)
128.94	V	Peak	44.01	-13.97	30.04	43.50	-13.46
228.85	V	Peak	41.63	-14.56	27.07	46.00	-18.93
299.66	V	Peak	42.41	-12.45	29.96	46.00	-16.04
427.70	V	Peak	49.16	-10.29	38.87	46.00	-7.13
516.94	V	Peak	43.97	-8.81	35.16	46.00	-10.84
864.20	V	Peak	34.97	-3.01	31.96	46.00	-14.04
151.25	H	Peak	39.85	-12.20	27.65	43.50	-15.85
212.36	H	Peak	45.76	-15.58	30.18	43.50	-13.32
282.20	H	Peak	47.07	-12.90	34.17	46.00	-11.83
384.05	H	Peak	40.15	-11.08	29.07	46.00	-16.93
427.70	H	Peak	44.56	-10.29	34.27	46.00	-11.73
641.10	H	Peak	35.33	-6.15	29.18	46.00	-16.82

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) (802.11b)

Operation Mode	802.11b TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)			
4770.0	30.66	---	5.18	35.84	---	74.00	54.00	-18.16 Peak
4824.0	----					74.00	54.00	
7236.0	----					74.00	54.00	
9648.0	----					74.00	54.00	
12060.0	----					74.00	54.00	
14472.0	----					74.00	54.00	
16884.0	----					74.00	54.00	
19296.0	----					74.00	54.00	
21708.0	----					74.00	54.00	
24120.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4824.0	30.48	---	5.33	35.81	---	74.00	54.00	-18.19 Peak
7236.0	----					74.00	54.00	
9648.0	----					74.00	54.00	
12060.0	----					74.00	54.00	
14472.0	----					74.00	54.00	
16884.0	----					74.00	54.00	
19296.0	----					74.00	54.00	
21708.0	----					74.00	54.00	
24120.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4874.0	29.87	---	5.42	35.29	---	74.00	54.00	-18.71 Peak
7311.0	----					74.00	54.00	
9748.0	----					74.00	54.00	
12185.0	----					74.00	54.00	
14622.0	----					74.00	54.00	
17059.0	----					74.00	54.00	
19496.0	----					74.00	54.00	
21933.0	----					74.00	54.00	
24370.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4874.0	31.15	---	5.42	36.57	---	74.00	54.00	-17.43 Peak
7311.0	----					74.00	54.00	
9748.0	----					74.00	54.00	
12185.0	----					74.00	54.00	
14622.0	----					74.00	54.00	
17059.0	----					74.00	54.00	
19496.0	----					74.00	54.00	
21933.0	----					74.00	54.00	
24370.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462MHz	Test By	Bondi
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4802.5	29.85	---	5.25	35.10	---	74.00	54.00	-18.90 Peak
4924.0	----					74.00	54.00	
7386.0	----					74.00	54.00	
9848.0	----					74.00	54.00	
12310.0	----					74.00	54.00	
14772.0	----					74.00	54.00	
17234.0	----					74.00	54.00	
19696.0	----					74.00	54.00	
22158.0	----					74.00	54.00	
24620.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4924.0	30.76	---	5.51	36.27	---	74.00	54.00	-17.73 Peak
7386.0	----					74.00	54.00	
9848.0	----					74.00	54.00	
12310.0	----					74.00	54.00	
14772.0	----					74.00	54.00	
17234.0	----					74.00	54.00	
19696.0	----					74.00	54.00	
22158.0	----					74.00	54.00	
24620.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2412MHz Test By Bondi
Temperature 25 Pol Ver.
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4757.0	29.99	---	5.13	35.12	---	74.00	54.00	-18.88	Peak	
4824.0	----					74.00	54.00			
7236.0	----					74.00	54.00			
9648.0	----					74.00	54.00			
12060.0	----					74.00	54.00			
14472.0	----					74.00	54.00			
16884.0	----					74.00	54.00			
19296.0	----					74.00	54.00			
21708.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4692.0	30.41	---	4.95	35.36	---	74.00	54.00	-18.64 Peak
4824.0	----					74.00	54.00	
7236.0	----					74.00	54.00	
9648.0	----					74.00	54.00	
12060.0	----					74.00	54.00	
14472.0	----					74.00	54.00	
16884.0	----					74.00	54.00	
19296.0	----					74.00	54.00	
21708.0	----					74.00	54.00	
24120.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4874.0	29.48	---	5.36	34.84	---	74.00	54.00	-19.16 Peak
7311.0	----					74.00	54.00	
9748.0	----					74.00	54.00	
12185.0	----					74.00	54.00	
14622.0	----					74.00	54.00	
17059.0	----					74.00	54.00	
19496.0	----					74.00	54.00	
21933.0	----					74.00	54.00	
24370.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4874.0	30.06	---	5.25	35.31	---	74.00	54.00	-18.69 Peak
7311.0	----					74.00	54.00	
9748.0	----					74.00	54.00	
12185.0	----					74.00	54.00	
14622.0	----					74.00	54.00	
17059.0	----					74.00	54.00	
19496.0	----					74.00	54.00	
21933.0	----					74.00	54.00	
24370.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2462MHz	Test By	Bondi
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4705.0	30.27	---	5.00	35.27	---	74.00	54.00	-18.73 Peak
4924.0	----					74.00	54.00	
7386.0	----					74.00	54.00	
9848.0	----					74.00	54.00	
12310.0	----					74.00	54.00	
14772.0	----					74.00	54.00	
17234.0	----					74.00	54.00	
19696.0	----					74.00	54.00	
22158.0	----					74.00	54.00	
24620.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4867.5	29.57	---	5.42	34.99	---	74.00	54.00	-19.01	Peak
4924.0	----					74.00	54.00		
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n_20M)

Operation Mode 802.11n_20M TX CH Low
 Fundamental Frequency 2412MHz
 Temperature 25
 Humidity 65 %

Test Date Mar. 18, 2011
 Test By Bondi
 Pol Ver.

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4824.0	29.64	---	5.20	34.84	---	74.00	54.00	-19.16	Peak	
7236.0	----					74.00	54.00			
9648.0	----					74.00	54.00			
12060.0	----					74.00	54.00			
14472.0	----					74.00	54.00			
16884.0	----					74.00	54.00			
19296.0	----					74.00	54.00			
21708.0	----					74.00	54.00			
24120.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n_20M)

Operation Mode 802.11n_20M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2412MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4824.0	30.10	---	5.30	35.40	---	74.00	54.00	-18.60	Peak	
7236.0	----					74.00	54.00			
9648.0	----					74.00	54.00			
12060.0	----					74.00	54.00			
14472.0	----					74.00	54.00			
16884.0	----					74.00	54.00			
19296.0	----					74.00	54.00			
21708.0	----					74.00	54.00			
24120.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M)

Operation Mode 802.11n_20M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4705.0	30.21	---	5.00	35.21	---	74.00	54.00	-18.79 Peak
4874.0	----					74.00	54.00	
7311.0	----					74.00	54.00	
9748.0	----					74.00	54.00	
12185.0	----					74.00	54.00	
14622.0	----					74.00	54.00	
17059.0	----					74.00	54.00	
19496.0	----					74.00	54.00	
21933.0	----					74.00	54.00	
24370.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M)

Operation Mode 802.11n_20M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4692.0	30.65	---	4.95	35.60	---	74.00	54.00	-18.40	Peak	
4874.0	----					74.00	54.00			
7311.0	----					74.00	54.00			
9748.0	----					74.00	54.00			
12185.0	----					74.00	54.00			
14622.0	----					74.00	54.00			
17059.0	----					74.00	54.00			
19496.0	----					74.00	54.00			
21933.0	----					74.00	54.00			
24370.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M)

Operation Mode 802.11n_20M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4672.5	30.53	---	4.88	35.41	---	74.00	54.00	-18.59	Peak	
4924.0	----					74.00	54.00			
7386.0	----					74.00	54.00			
9848.0	----					74.00	54.00			
12310.0	----					74.00	54.00			
14772.0	----					74.00	54.00			
17234.0	----					74.00	54.00			
19696.0	----					74.00	54.00			
22158.0	----					74.00	54.00			
24620.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M)

Operation Mode 802.11n_20M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2462MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4737.5	29.76	---	5.08	34.84	---	74.00	54.00	-19.16	Peak
4924.0	----					74.00	54.00		
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2422MHz Test By Bondi
Temperature 25 Pol Ver.
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4844.0	30.18	---	5.30	35.48	---	74.00	54.00	-18.52 Peak
7266.0	----					74.00	54.00	
9688.0	----					74.00	54.00	
12110.0	----					74.00	54.00	
14532.0	----					74.00	54.00	
16954.0	----					74.00	54.00	
19376.0	----					74.00	54.00	
21798.0	----					74.00	54.00	
24220.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 2422MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4844.0	29.48	---	5.51	34.99	---	74.00	54.00	-19.01	Peak	
7266.0	----					74.00	54.00			
9688.0	----					74.00	54.00			
12110.0	----					74.00	54.00			
14532.0	----					74.00	54.00			
16954.0	----					74.00	54.00			
19376.0	----					74.00	54.00			
21798.0	----					74.00	54.00			
24220.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	----					74.00	54.00		
4965.0	30.20	---	5.62	35.82	---	74.00	54.00	-18.18	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4874.0	----					74.00	54.00			
5043.0	29.41	---	5.87	35.28	---	74.00	54.00	-18.72	Peak	
7311.0	----					74.00	54.00			
9748.0	----					74.00	54.00			
12185.0	----					74.00	54.00			
14622.0	----					74.00	54.00			
17059.0	----					74.00	54.00			
19496.0	----					74.00	54.00			
21933.0	----					74.00	54.00			
24370.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH High
 Fundamental Frequency 2452MHz
 Temperature 25
 Humidity 65 %

Test Date Mar. 18, 2011
 Test By Bondi
 Pol Ver

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4904.0	29.88	---	5.46	35.34	---	74.00	54.00	-18.66	Peak	
7356.0	----					74.00	54.00			
9808.0	----					74.00	54.00			
12260.0	----					74.00	54.00			
14712.0	----					74.00	54.00			
17164.0	----					74.00	54.00			
19616.0	----					74.00	54.00			
22068.0	----					74.00	54.00			
24520.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M)

Operation Mode 802.11n_40M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2452MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS			Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4904.0	----					74.00	54.00		
5095.0	29.46	---	6.02	35.48	---	74.00	54.00	-18.52	Peak
7356.0	----					74.00	54.00		
9808.0	----					74.00	54.00		
12260.0	----					74.00	54.00		
14712.0	----					74.00	54.00		
17164.0	----					74.00	54.00		
19616.0	----					74.00	54.00		
22068.0	----					74.00	54.00		
24520.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a)

Operation Mode	802.11a TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745MHz	Test By	Bondi
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4770.0	30.18	---	5.18	35.36	---	74.00	54.00	-18.64 Peak
11490.0	22.93	---	18.80	41.73	---	74.00	54.00	-12.27 Peak
17235.0	----					74.00	54.00	
22980.0	----					74.00	54.00	
28725.0	----					74.00	54.00	
34470.0	----					74.00	54.00	
40215.0	----					74.00	54.00	
45960.0	----					74.00	54.00	
51705.0	----					74.00	54.00	
57450.0	----					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) (802.11a)

Operation Mode	802.11a TX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	5745MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4588.00	30.59	---	4.60	35.19	---	74.00	54.00	-18.81 Peak
11490.0	22.76	---	18.76	41.52	---	74.00	54.00	-12.48 Peak
17235.0	----					74.00	54.00	
22980.0	----					74.00	54.00	
28725.0	----					74.00	54.00	
34470.0	----					74.00	54.00	
40215.0	----					74.00	54.00	
45960.0	----					74.00	54.00	
51705.0	----					74.00	54.00	
57450.0	----					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) (802.11a)

Operation Mode 802.11a TX CH Mid Test Date Mar. 18, 2011
 Fundamental Frequency 5785MHz Test By Bondi
 Temperature 25 Pol Ver
 Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4653.00	30.64	---	4.82	35.46	---	74.00	54.00	-18.54	Peak
11570.0	22.77	---	18.72	41.49	---	74.00	54.00	-12.51	Peak
17355.0	----					74.00	54.00		
23140.0	----					74.00	54.00		
28925.0	----					74.00	54.00		
34710.0	----					74.00	54.00		
40495.0	----					74.00	54.00		
46280.0	----					74.00	54.00		
52065.0	----					74.00	54.00		
57850.0	----					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) (802.11a)

Operation Mode	802.11a TX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	5785MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4770.00	30.84	---	5.18	36.02	---	74.00	54.00	-17.98 Peak
11570.0	22.88	---	18.75	41.63	---	74.00	54.00	-12.37 Peak
17355.0	----					74.00	54.00	
23140.0	----					74.00	54.00	
28925.0	----					74.00	54.00	
34710.0	----					74.00	54.00	
40495.0	----					74.00	54.00	
46280.0	----					74.00	54.00	
52065.0	----					74.00	54.00	
57850.0	----					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) (802.11a)

Operation Mode 802.11a TX CH High Test Date Mar. 18, 2011
 Fundamental Frequency 5825MHz Test By Bondi
 Temperature 25 Pol Ver
 Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4757.00	30.35	---	5.13	35.48	---	74.00	54.00	-18.52	Peak
11469.00	23.25	---	18.76	42.01	---	74.00	54.00	-11.99	Peak
17475.0	----					74.00	54.00		
23300.0	----					74.00	54.00		
29125.0	----					74.00	54.00		
34950.0	----					74.00	54.00		
40775.0	----					74.00	54.00		
46600.0	----					74.00	54.00		
52425.0	----					74.00	54.00		
58250.0	----					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) (802.11a)

Operation Mode	802.11a TX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825MHz	Test By	Bondi
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
3873.00	34.21	---	2.25	36.46	---	74.00	54.00	-17.54 Peak
11650.0	22.97	---	18.64	41.61	---	74.00	54.00	-12.39 Peak
17475.0	----					74.00	54.00	
23300.0	----					74.00	54.00	
29125.0	----					74.00	54.00	
34950.0	----					74.00	54.00	
40775.0	----					74.00	54.00	
46600.0	----					74.00	54.00	
52425.0	----					74.00	54.00	
58250.0	----					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) (802.11n(5GHz)_20M)

Operation Mode 802.11a/n_20M TX CH Low Test Date Mar. 18, 2011
 Fundamental Frequency 5745MHz Test By Bondi
 Temperature 25 Pol Ver.
 Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4822.0	30.21	---	5.30	35.51	---	74.00	54.00	-18.49	Peak	
11490.0	23.11	---	18.8	41.91	---	74.00	54.00	-12.09	Peak	
17235.0	----					74.00	54.00			
22980.0	----					74.00	54.00			
28725.0	----					74.00	54.00			
34470.0	----					74.00	54.00			
40215.0	----					74.00	54.00			
45960.0	----					74.00	54.00			
51705.0	----					74.00	54.00			
57450.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5Ghz)_20M)

Operation Mode 802.11a/n_20M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 5745MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4802.5	31.20	---	5.25	36.45	---	74.00	54.00	-17.55 Peak
11490.0	23.28	---	18.52	41.80	---	74.00	54.00	-12.20 Peak
17235.0	----					74.00	54.00	
22980.0	----					74.00	54.00	
28725.0	----					74.00	54.00	
34470.0	----					74.00	54.00	
40215.0	----					74.00	54.00	
45960.0	----					74.00	54.00	
51705.0	----					74.00	54.00	
57450.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5Ghz)_20M)

Operation Mode 802.11a/n_20M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 5785MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)		
4802.5	30.42	---	5.25	35.67	---	74.00	54.00	-18.33 Peak
11570.0	23.1	---	18.75	41.85	---	74.00	54.00	-12.15 Peak
17355.0	----					74.00	54.00	
23140.0	----					74.00	54.00	
28925.0	----					74.00	54.00	
34710.0	----					74.00	54.00	
40495.0	----					74.00	54.00	
46280.0	----					74.00	54.00	
52065.0	----					74.00	54.00	
57850.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5GHz)_20M)

Operation Mode 802.11a/n_20M TX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 5785MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4757.0	30.99	---	5.13	36.12	---	74.00	54.00	-17.88	Peak	
11570.0	23.92	---	18.76	42.68	---	74.00	54.00	-11.32	Peak	
17355.0	----					74.00	54.00			
23140.0	----					74.00	54.00			
28925.0	----					74.00	54.00			
34710.0	----					74.00	54.00			
40495.0	----					74.00	54.00			
46280.0	----					74.00	54.00			
52065.0	----					74.00	54.00			
57850.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5Ghz)_20M)

Operation Mode 802.11a/n_20M TX CH High Test Date Mar. 18, 2011
 Fundamental Frequency 5825MHz Test By Bondi
 Temperature 25 Pol Ver
 Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
7155.5	34.31	---	2.25	36.56	---	74.00	54.00	-17.44	Peak	
11650.0	23.65	---	18.59	42.24	---	74.00	54.00	-11.76	Peak	
17475.0	----					74.00	54.00			
23300.0	----					74.00	54.00			
29125.0	----					74.00	54.00			
34950.0	----					74.00	54.00			
40775.0	----					74.00	54.00			
46600.0	----					74.00	54.00			
52425.0	----					74.00	54.00			
58250.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5GHz)_20M)

Operation Mode 802.11a/n_20M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 5825MHz Test By Bondi
Temperature 25 Pol
Humidity 65 % Hor

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4822.0	30.49	---	5.30	35.79	---	74.00	54.00	-18.21	Peak	
11650.0	23.06	---	18.76	41.82	---	74.00	54.00	-12.18	Peak	
17475.0	----					74.00	54.00			
23300.0	----					74.00	54.00			
29125.0	----					74.00	54.00			
34950.0	----					74.00	54.00			
40775.0	----					74.00	54.00			
46600.0	----					74.00	54.00			
52425.0	----					74.00	54.00			
58250.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5GHz)_40M)

Operation Mode 802.11a/n_40M TX CH Low Test Date Mar. 18, 2011
 Fundamental Frequency 5755MHz Test By Bondi
 Temperature 25 Pol Ver.
 Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4757.0	30.93	---	5.13	36.06	---	74.00	54.00	-17.94	Peak	
11510.0	23.32	---	18.75	42.07	---	74.00	54.00	-11.93	Peak	
17265.0	----					74.00	54.00			
23020.0	----					74.00	54.00			
28775.0	----					74.00	54.00			
34530.0	----					74.00	54.00			
40285.0	----					74.00	54.00			
46040.0	----					74.00	54.00			
51795.0	----					74.00	54.00			
57550.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5Ghz)_40M)

Operation Mode 802.11a/n_40M TX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 5755MHz Test By Bondi
Temperature 25 Pol Hor
Humidity 65 %

Freq. (MHz)	Peak	AV	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
4822.0	30.48	---	5.30	35.78	---	74.00	54.00	-18.22 Peak
11510.0	23.20	---	18.68	41.88	---	74.00	54.00	-12.12 Peak
17265.0	----					74.00	54.00	
23020.0	----					74.00	54.00	
28775.0	----					74.00	54.00	
34530.0	----					74.00	54.00	
40285.0	----					74.00	54.00	
46040.0	----					74.00	54.00	
51795.0	----					74.00	54.00	
57550.0	----					74.00	54.00	

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5Ghz)_40M)

Operation Mode 802.11a/n_40M TX CH High Test Date Mar. 18, 2011
Fundamental Frequency 5795MHz Test By Bondi
Temperature 25 Pol Ver
Humidity 65 %

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4867.5	30.34	---	5.42	35.76	---	74.00	54.00	-18.24	Peak	
11590.0	23.13	---	18.69	41.82	---	74.00	54.00	-12.18	Peak	
17385.0	----					74.00	54.00			
23180.0	----					74.00	54.00			
28975.0	----					74.00	54.00			
34770.0	----					74.00	54.00			
40565.0	----					74.00	54.00			
46360.0	----					74.00	54.00			
52155.0	----					74.00	54.00			
57950.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n(5GHz)_40M)

Operation Mode 802.11a/n_40M TX CH High Test Date Mar. 18, 2011
 Fundamental Frequency 5795MHz Test By Bondi
 Temperature 25 Pol
 Humidity 65 % Hor

Freq. (MHz)	Peak	AV		Actual FS		Peak	AV		Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)			
4770.0	30.51	---	5.18	35.69	---	74.00	54.00	-18.31	Peak	
11590.0	23.26	---	18.80	42.06	---	74.00	54.00	-11.94	Peak	
17385.0	----					74.00	54.00			
23180.0	----					74.00	54.00			
28975.0	----					74.00	54.00			
34770.0	----					74.00	54.00			
40565.0	----					74.00	54.00			
46360.0	----					74.00	54.00			
52155.0	----					74.00	54.00			
57950.0	----					74.00	54.00			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b) (worst case)

Operation Mode	802.11b RX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2437MHz	Test By	Bondi
Temperature	25	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)
134.76	V	Peak	42.96	-13.41	29.55	43.50	-13.95
224.00	V	Peak	41.97	-14.82	27.15	46.00	-18.85
299.66	V	Peak	41.64	-12.45	29.19	46.00	-16.81
427.70	V	Peak	50.19	-10.29	39.90	46.00	-6.10
536.34	V	Peak	40.50	-8.41	32.09	46.00	-13.91
641.10	V	Peak	38.34	-6.15	32.19	46.00	-13.81
154.16	H	Peak	39.80	-12.18	27.62	43.50	-15.88
212.36	H	Peak	46.00	-15.58	30.42	43.50	-13.08
282.20	H	Peak	46.64	-12.90	33.74	46.00	-12.26
425.76	H	Peak	42.58	-10.33	32.25	46.00	-13.75
493.66	H	Peak	39.73	-9.24	30.49	46.00	-15.51
689.60	H	Peak	35.01	-5.41	29.60	46.00	-16.40

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) (802.11g) (worst case)

Operation Mode	802.11g RX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	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)
134.76	V	Peak	42.60	-13.40	29.20	43.50	-14.30
224.00	V	Peak	41.77	-14.82	26.95	46.00	-19.05
299.66	V	Peak	42.06	-12.45	29.61	46.00	-16.39
422.85	V	Peak	49.80	-10.42	39.38	46.00	-6.62
500.45	V	Peak	40.42	-9.09	31.33	46.00	-14.67
641.10	V	Peak	38.49	-6.15	32.34	46.00	-13.66
151.25	H	Peak	39.58	-12.20	27.38	43.50	-16.12
212.36	H	Peak	46.30	-15.58	30.72	43.50	-12.78
267.65	H	Peak	47.67	-13.30	34.37	46.00	-11.63
398.60	H	Peak	41.22	-10.93	30.29	46.00	-15.71
422.85	H	Peak	42.41	-10.42	31.99	46.00	-14.01
643.04	H	Peak	36.24	-6.12	30.12	46.00	-15.88

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) (802.11n_20M) (worst case)

Operation Mode 802.11g/n RX CH Mid Test Date Mar. 18, 2011
Fundamental Frequency 2437MHz Test By Bondi
Temperature 25 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)
136.70	V	Peak	42.23	-13.26	28.97	43.50	-14.53
224.00	V	Peak	42.00	-14.82	27.18	46.00	-18.82
299.66	V	Peak	42.49	-12.45	30.04	46.00	-15.96
425.76	V	Peak	49.53	-10.33	39.20	46.00	-6.80
493.66	V	Peak	42.82	-9.24	33.58	46.00	-12.42
643.04	V	Peak	37.83	-6.12	31.71	46.00	-14.29
158.04	H	Peak	39.33	-12.00	27.33	43.50	-16.17
212.36	H	Peak	45.75	-15.58	30.17	43.50	-13.33
267.65	H	Peak	47.51	13.30	60.81	46.00	14.81
427.70	H	Peak	43.27	-10.29	32.98	46.00	-13.02
500.45	H	Peak	35.13	-9.09	26.04	46.00	-19.96
668.26	H	Peak	35.26	-5.70	29.56	46.00	-16.44

Remark :

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

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_40M) (worst case)

Operation Mode 802.11g/n_40M RX CH High Test Date Mar. 18, 2011
Fundamental Frequency 2452MHz Test By Bondi
Temperature 25 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)
134.76	V	Peak	43.01	-13.41	29.60	43.50	-13.90
224.00	V	Peak	41.69	-14.82	26.87	46.00	-19.13
301.60	V	Peak	42.63	-12.41	30.22	46.00	-15.78
427.70	V	Peak	49.57	-10.29	39.28	46.00	-6.72
505.30	V	Peak	39.92	-9.02	30.90	46.00	-15.10
864.20	V	Peak	35.89	-3.01	32.88	46.00	-13.12
158.04	H	Peak	39.59	-12.00	27.59	43.50	-15.91
206.54	H	Peak	46.00	-15.86	30.14	43.50	-13.36
277.35	H	Peak	48.70	-13.01	35.69	46.00	-10.31
427.70	H	Peak	42.63	-10.29	32.34	46.00	-13.66
500.45	H	Peak	37.84	-9.09	28.75	46.00	-17.25
864.20	H	Peak	35.74	-3.01	32.73	46.00	-13.27

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) (802.11a) (worst case)

Operation Mode	802.11a RX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	5825MHz	Test By	Bondi
Temperature	25	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)
134.76	V	Peak	42.43	-13.41	29.02	43.50	-14.48
228.85	V	Peak	41.83	-14.56	27.27	46.00	-18.73
301.60	V	Peak	43.89	-12.41	31.48	46.00	-14.52
427.70	V	Peak	49.66	-10.29	39.37	46.00	-6.63
516.94	V	Peak	39.46	-8.81	30.65	46.00	-15.35
864.20	V	Peak	36.03	-3.01	33.02	46.00	-12.98
151.25	H	Peak	39.94	-12.20	27.74	43.50	-15.76
206.54	H	Peak	46.35	-15.86	30.49	43.50	-13.01
267.65	H	Peak	48.21	-13.30	34.91	46.00	-11.09
357.86	H	Peak	41.70	-11.45	30.25	46.00	-15.75
427.70	H	Peak	42.39	-10.29	32.10	46.00	-13.90
668.26	H	Peak	35.20	-5.70	29.50	46.00	-16.50

Remark :

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

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a/n_20M) (worst case)

Operation Mode 802.11a/n_20M RX CH High Test Date Mar. 18, 2011
Fundamental Frequency 5825MHz Test By Bondi
Temperature 25 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)
134.76	V	Peak	43.12	-13.41	29.71	43.50	-13.79
228.85	V	Peak	41.80	-14.56	27.24	46.00	-18.76
301.60	V	Peak	42.74	-12.41	30.33	46.00	-15.67
427.70	V	Peak	49.81	-10.29	39.52	46.00	-6.48
534.40	V	Peak	40.90	-8.44	32.46	46.00	-13.54
864.20	V	Peak	36.26	-3.01	33.25	46.00	-12.75
151.25	H	Peak	39.59	-12.20	27.39	43.50	-16.11
212.36	H	Peak	46.05	-15.58	30.47	43.50	-13.03
280.26	H	Peak	47.05	-12.95	34.10	46.00	-11.90
427.70	H	Peak	42.80	-10.29	32.51	46.00	-13.49
571.26	H	Peak	35.92	-7.70	28.22	46.00	-17.78
864.20	H	Peak	35.89	-3.01	32.88	46.00	-13.12

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) (802.11a/n_40M) (worst case)

Operation Mode 802.11a/n_40M RX CH Low Test Date Mar. 18, 2011
Fundamental Frequency 5755MHz Test By Bondi
Temperature 25 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)
134.76	V	Peak	42.23	-13.41	28.82	43.50	-14.68
228.85	V	Peak	41.77	-14.56	27.21	46.00	-18.79
299.66	V	Peak	42.86	-12.45	30.41	46.00	-15.59
427.70	V	Peak	49.85	-10.29	39.56	46.00	-6.44
505.30	V	Peak	40.48	-9.02	31.46	46.00	-14.54
641.10	V	Peak	38.79	-6.15	32.64	46.00	-13.36
154.16	H	Peak	39.42	-12.18	27.24	43.50	-16.26
212.36	H	Peak	46.36	-15.58	30.78	43.50	-12.72
267.65	H	Peak	47.59	-13.30	34.29	46.00	-11.71
427.70	H	Peak	42.65	-10.29	32.36	46.00	-13.64
561.56	H	Peak	34.82	-7.86	26.96	46.00	-19.04
864.20	H	Peak	36.84	-3.01	33.83	46.00	-12.17

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 (above 1GHz) (802.11_b) (worst case)

Operation Mode	802.11b RX CH High	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	Pol	Ver. / Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.0	V	30.20	---	5.61	35.81	---	74.00	54.00	54.00	-18.19	Peak
7386.0	V	----					74.0	54.0	54.0		
9848.0	V	----					74.0	54.0	54.0		
12310.0	V	----					74.0	54.0	54.0		
4705.0	H	31.89	---	4.90	36.79	---	74.00	54.00	54.00	-17.21	Peak
4924.0	H	----					74.0	54.0	54.0		
7386.0	H	----					74.0	54.0	54.0		
9848.0	H	----					74.0	54.0	54.0		
12310.0	H	----					74.0	54.0	54.0		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g) (worst case)

Operation Mode	802.11g RX CH Low	Test Date	Mar. 18, 2011
Fundamental Frequency	2412MHz	Test By	Bondi
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.0	V	----						74.0	54.0		
4952.0	V	30.80	---	5.57	36.37	---		74.00	54.00	-17.63	Peak
7236.0	V	----						74.0	54.0		
9648.0	V	----						74.0	54.0		
12060.0	V	----						74.0	54.0		
4824.0	H	----						74.0	54.0		
4932.5	H	30.84	---	5.52	36.36	---		74.00	54.00	-17.64	Peak
7236.0	H	----						74.0	54.0		
9648.0	H	----						74.0	54.0		
12060.0	H	----						74.0	54.0		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) (worst case)

Operation Mode 802.11n_20M RX CH Mid
 Fundamental Frequency 2437MHz
 Temperature 25
 Humidity 65 %

Test Date Mar. 18, 2011
 Test By Bondi
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.0	V	----						74.0	54.0		
4913.0	V	31.12	---	5.47	36.59	---		74.00	54.00	-17.41	Peak
7311.0	V	----						74.0	54.0		
9748.0	V	----						74.0	54.0		
12185.0	V	----						74.0	54.0		
4653.0	H	31.14	---	4.78	35.92	---		74.00	54.00	-18.08	Peak
4874.0	H	----						74.0	54.0		
7311.0	H	----						74.0	54.0		
9748.0	H	----						74.0	54.0		
12185.0	H	----						74.0	54.0		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11n_40M) (worst case)

Operation Mode	802.11g/n_40M RX CH Mid	Test Date	Mar. 18, 2011
Fundamental Frequency	2452MHz	Test By	Bondi
Temperature	25	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.0	V	----						74.0	54.0		
4978.0	V	30.95	---	5.66	36.61	---		74.00	54.00	-17.39	Peak
7311.0	V	----						74.0	54.0		
9748.0	V	----						74.0	54.0		
12185.0	V	----						74.0	54.0		
4874.0	H	----						74.0	54.0		
4952.0	H	30.31	---	5.57	35.88	---		74.00	54.00	-18.12	Peak
7311.0	H	----						74.0	54.0		
9748.0	H	----						74.0	54.0		
12185.0	H	----						74.0	54.0		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a) (worst case)

Operation Mode 802.11a RX CH Low
 Fundamental Frequency 5745MHz
 Temperature 25
 Humidity 65 %

Test Date Mar. 18, 2011
 Test By Bondi
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4900.0	V	----						74.0	54.0		
11490.0	V	30.95	---	5.66	36.61	---		74.00	54.00	-17.39	Peak
17235.0	V	----						74.0	54.0		
22980.0	V	----						74.0	54.0		
28725.0	V	----						74.0	54.0		
4932.5	H	28.76	---	5.52	34.28	---		74.00	54.00	-19.72	Peak
11490.0	H	22.80	---	18.75	41.55	---		74.00	54.00	-12.45	Peak
17235.0	H	----						74.0	54.0		
22980.0	H	----						74.0	54.0		
28725.0	H	----						74.0	54.0		

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20M) (worst case)

Operation Mode 802.11a/n_20M RX CH Mid
 Fundamental Frequency 5785MHz
 Temperature 25
 Humidity 65 %

Test Date Mar. 18, 2011
 Test By Bondi
 Pol Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4802.5	V	31.04	---	5.19	36.23	---	74.00	54.00	-17.77	Peak	
11570.0	V	24.38	---	18.59	42.97	---	74.00	54.00	-11.03	Peak	
17355.0	V	----					74.0	54.0			
23140.0	V	----					74.0	54.0			
28925.0	V	----					74.0	54.0			
4887.0	H	30.69	---	5.41	36.10	---	74.00	54.00	-17.90	Peak	
11570.0	H	24.67	---	18.76	43.43	---	74.00	54.00	-10.57	Peak	
17355.0	H	----					74.0	54.0			
23140.0	H	----					74.0	54.0			
28925.0	H	----					74.0	54.0			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_40M) (worst case)

Operation Mode 802.11a/n_40M RX CH High Test Date Mar. 18, 2011
 Fundamental Frequency 5795MHz Test By Bondi
 Temperature 25 Pol Ver. / Hor.
 Humidity 65 %

Freq. (MHz)	Ant.Pol. H/V	Peak		AV		Actual FS		Peak		AV	
		Reading (dBuV)	Reading (dBuV)	Ant./CL CF(dB)	(dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4757.0	V	31.46	---	5.05	36.51	---	74.00	54.00	-17.49	Peak	
11590.0	V	25.39	---	18.76	44.15	---	74.00	54.00	-9.85	Peak	
17385.0	V	----					74.0	54.0			
23180.0	V	----					74.0	54.0			
28975.0	V	----					74.0	54.0			
4867.5	H	30.83	---	5.37	36.20	---	74.00	54.00	-17.80	Peak	
11590.0	H	24.62	---	18.68	43.30	---	74.00	54.00	-10.70	Peak	
17385.0	H	----					74.0	54.0			
23180.0	H	----					74.0	54.0			
28975.0	H	----					74.0	54.0			

Remark:

- 1 Measuring frequencies 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- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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9 Peak Power Spectral Density

9.1 Standard Applicable:

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-210 issue 8, §A8.2(b) The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

9.2 Measurement Equipment Used:

Refer to section 6.2 for details.

9.3 Test Set-up:

Refer to section 6.3 for details.

9.4 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 = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

9.5 Measurement Result:

For the measurement of result, refer to them from the original modular report: *FCC: INTEL-090601F / IC: INTEL-090601IC*

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10. ANTENNA REQUIREMENT

10.1 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.

According to RSS-GEN 7.1.4, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

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When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

10.2 Antenna Connected Construction:

The directional gins of antenna used for transmitting is (Main): 3.26 dBi 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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11 99% Bandwidth Measurement

11.1. Standard Applicable:

RSS-Gen §4.6.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

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

The span between the two recorded frequencies is the occupied bandwidth.

11.2. Measurement Equipment Used:

Refer to section 6.2 for details.

11.3. Test Set-up:

Refer to section 6.3 for details.

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11.4. 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=1% of the approximate emission bandwidth, VBW = 3 times RBW, Span= 30/60
4. Turn on the 99% bandwidth function, max reading..
5. Repeat above procedures until all frequency measured were complete.

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11.5. Measurement Result:

802.11b

Frequency MHz	99%Bandwidth (MHz)
2412	14.0328
2437	14.0063
2462	14.0359

802.11g

Frequency MHz	99%Bandwidth (MHz)
2412	16.9111
2437	16.6126
2462	16.6313

802.11n_20M

Frequency MHz	99%Bandwidth (MHz)
2412	17.9298
2437	17.7422
2462	17.7737

802.11n_40M

Frequency MHz	99%Bandwidth (MHz)
2422	36.0843
2437	35.9909
2462	36.0464

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802.11a

Frequency MHz	99%Bandwidth (MHz)
5745	16.4216
5785	16.4202
5825	16.4228

802.11n(5GHz)_20M

Frequency MHz	99%Bandwidth (MHz)
5745	17.5919
5785	17.5895
5825	17.5987

802.11n(5GHz)_40M

Frequency MHz	99%Bandwidth (MHz)
5755	35.9457
5795	35.9342

Note: Refer to next page for plots.

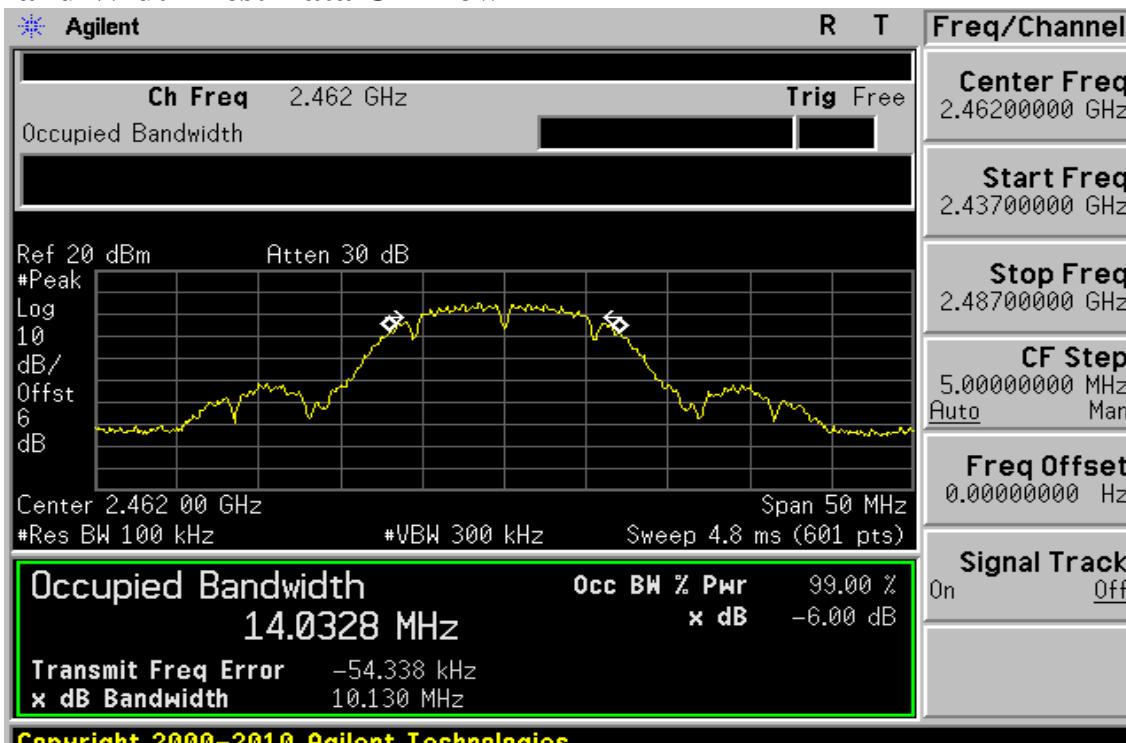
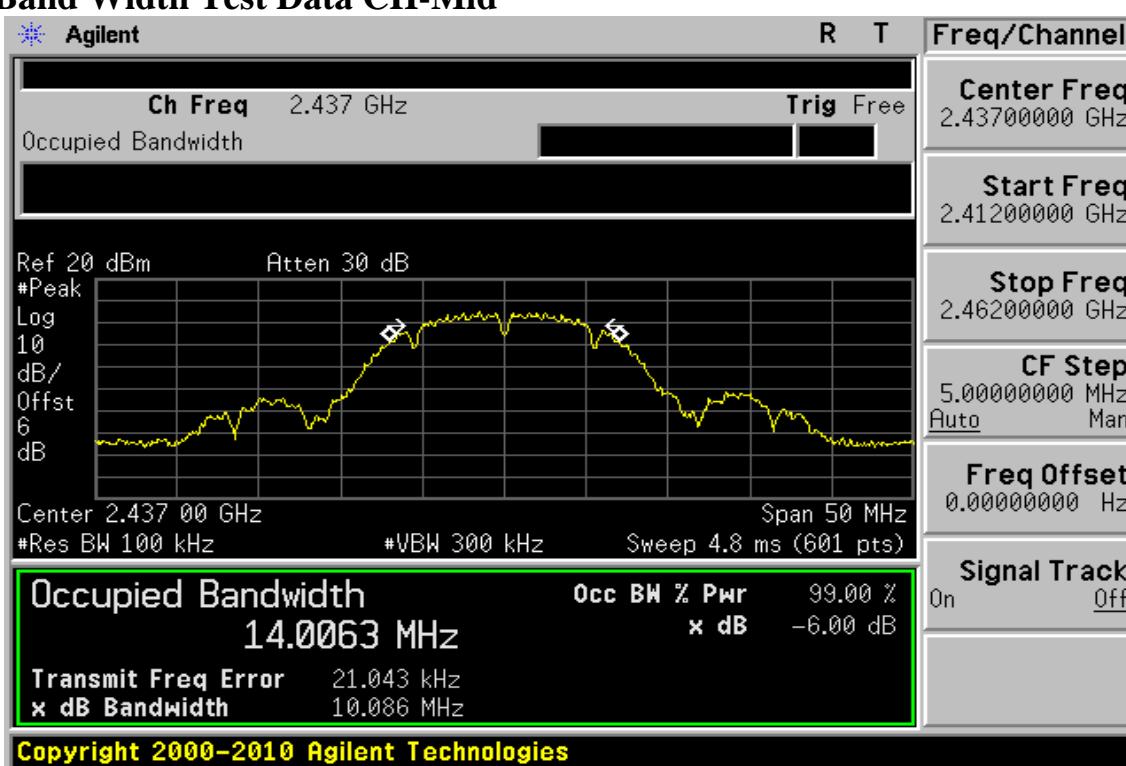
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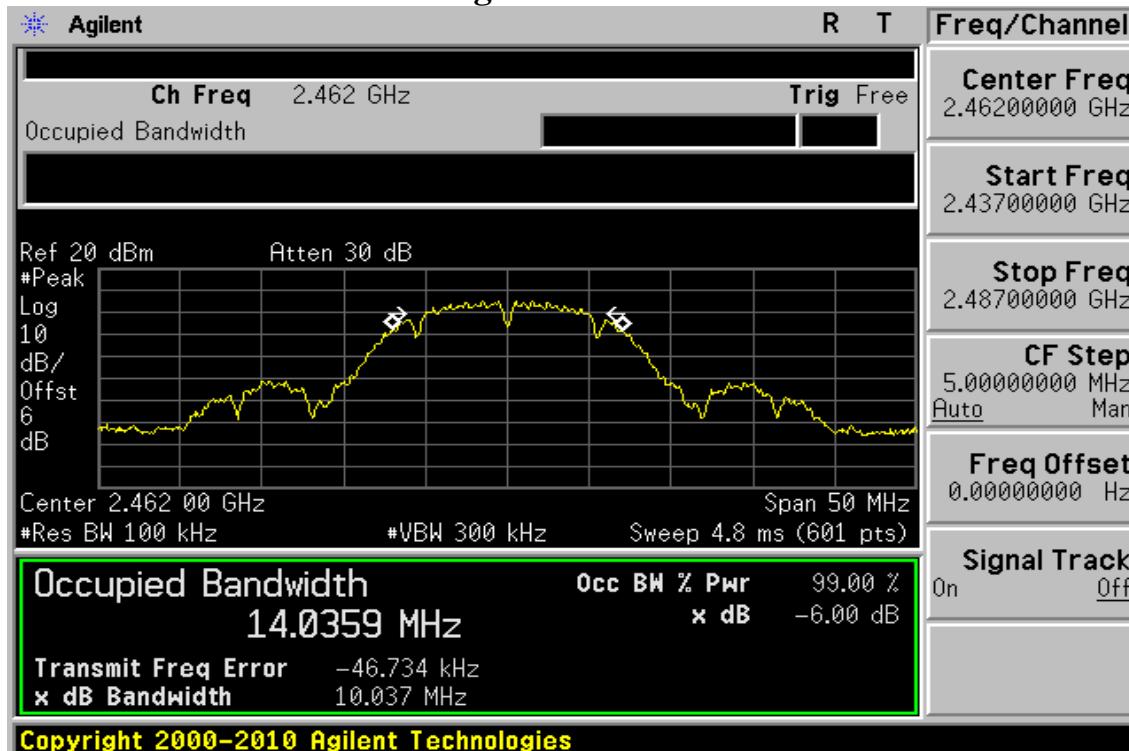
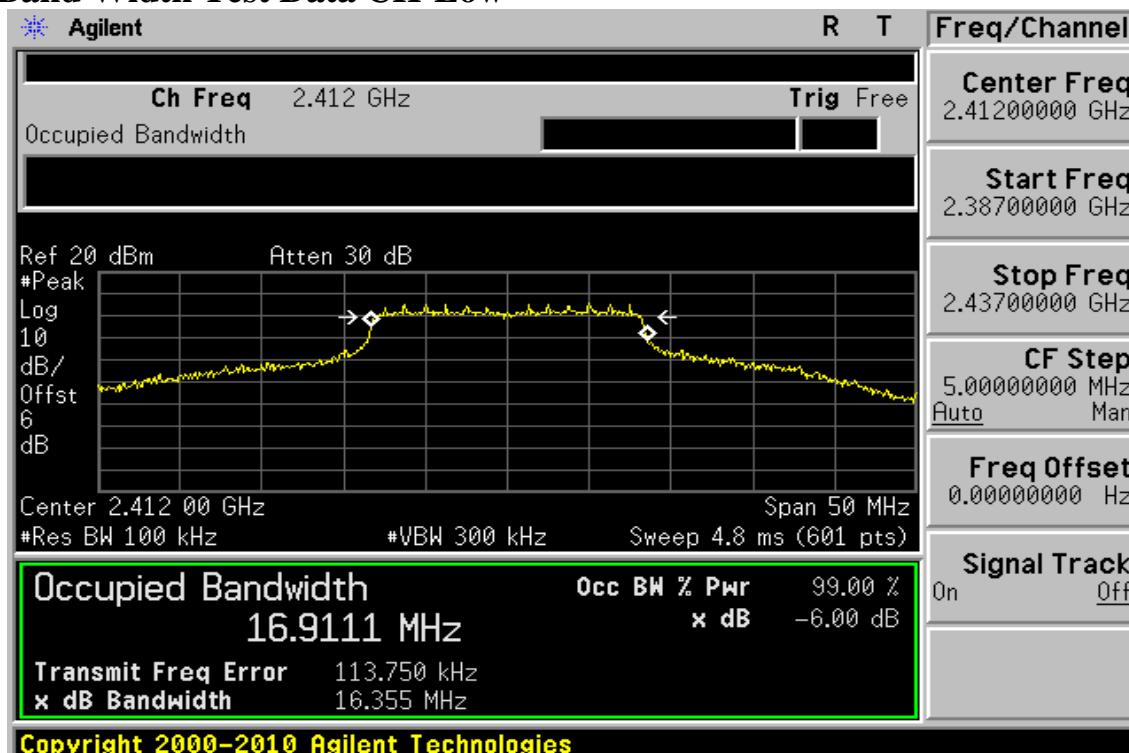
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802.11b
99% Band Width Test Data CH-Low

99% Band Width Test Data CH-Mid


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99% Band Width Test Data CH-High

802.11g
99% Band Width Test Data CH-Low


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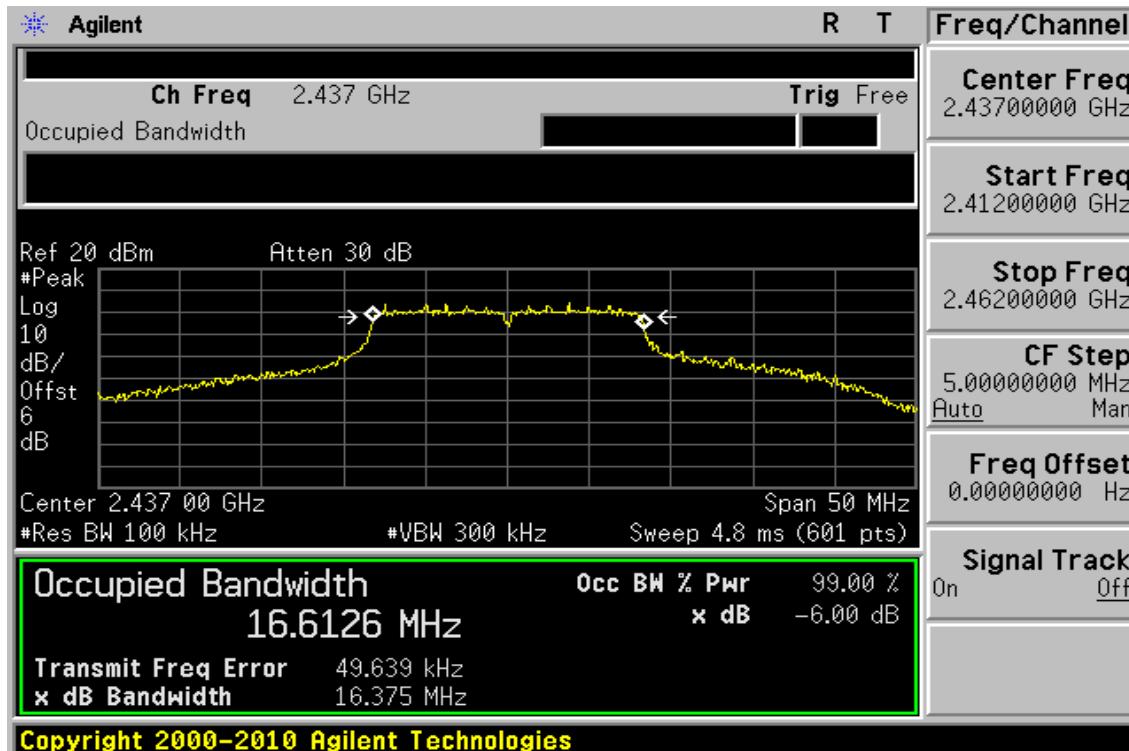
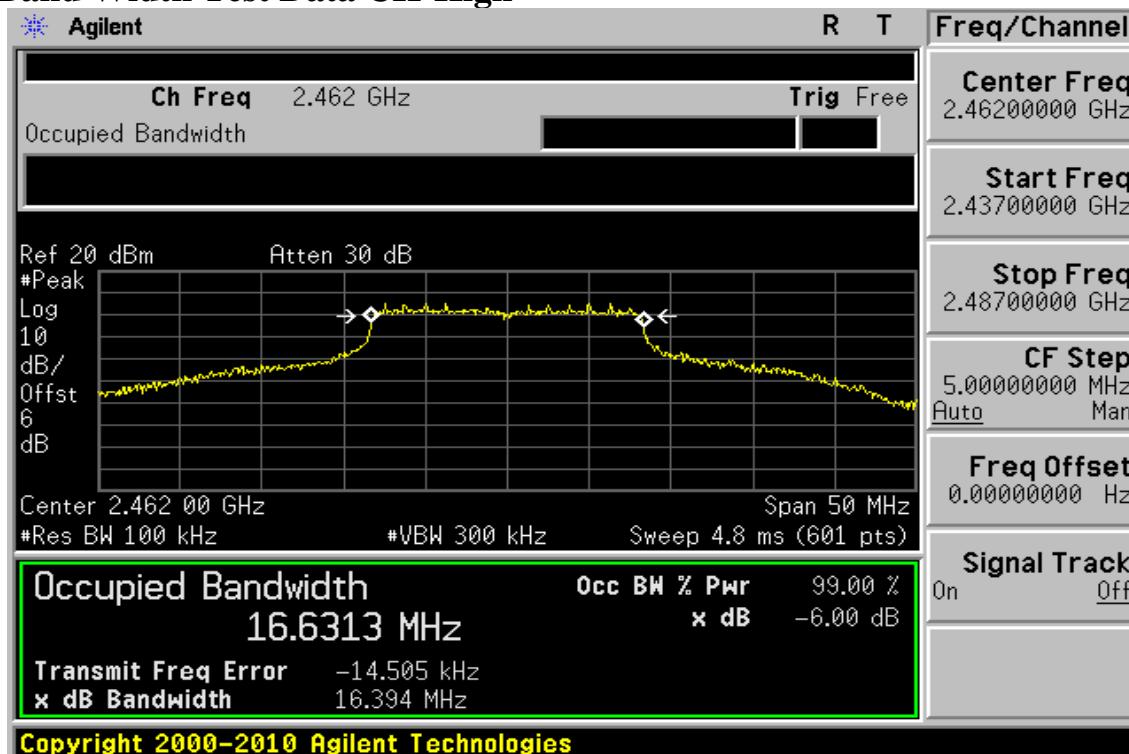
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99% Band Width Test Data CH-Mid**99% Band Width Test Data CH-High**

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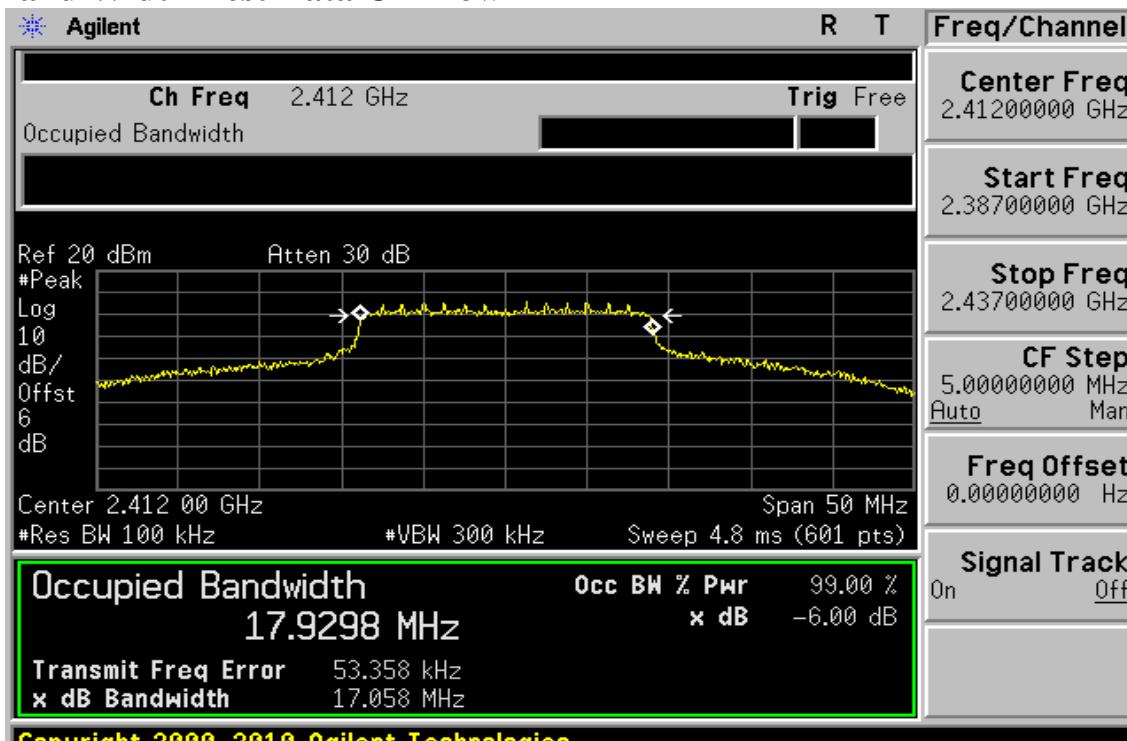
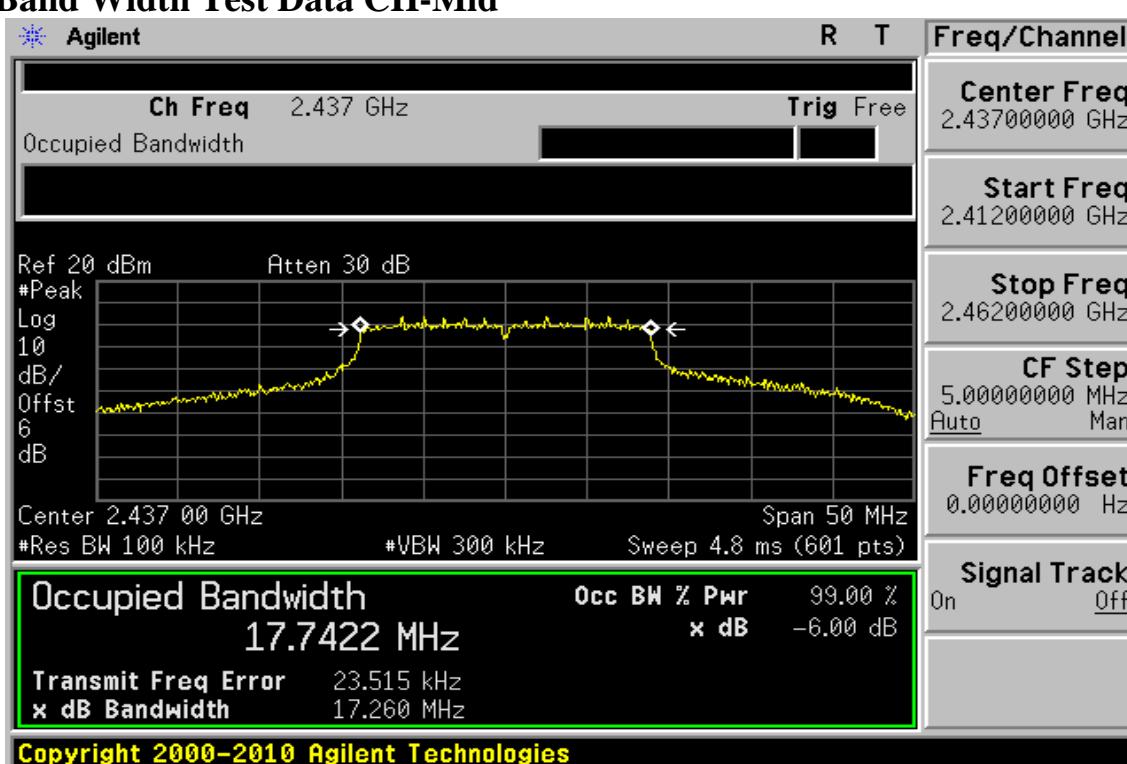
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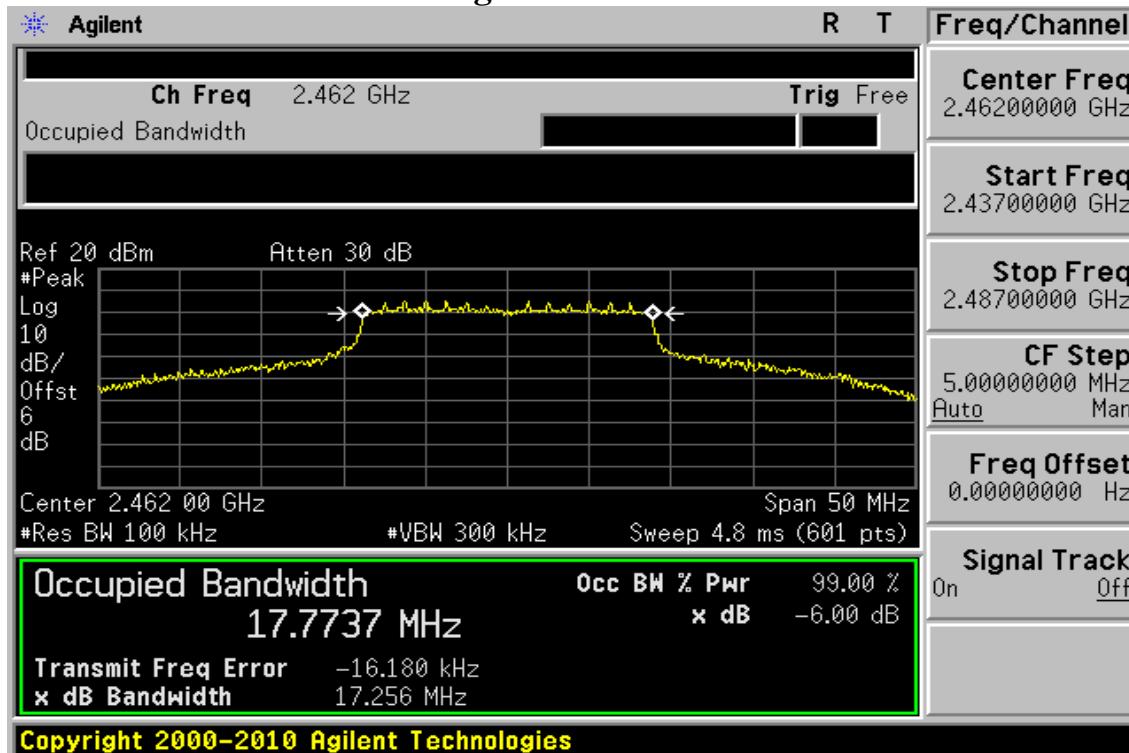
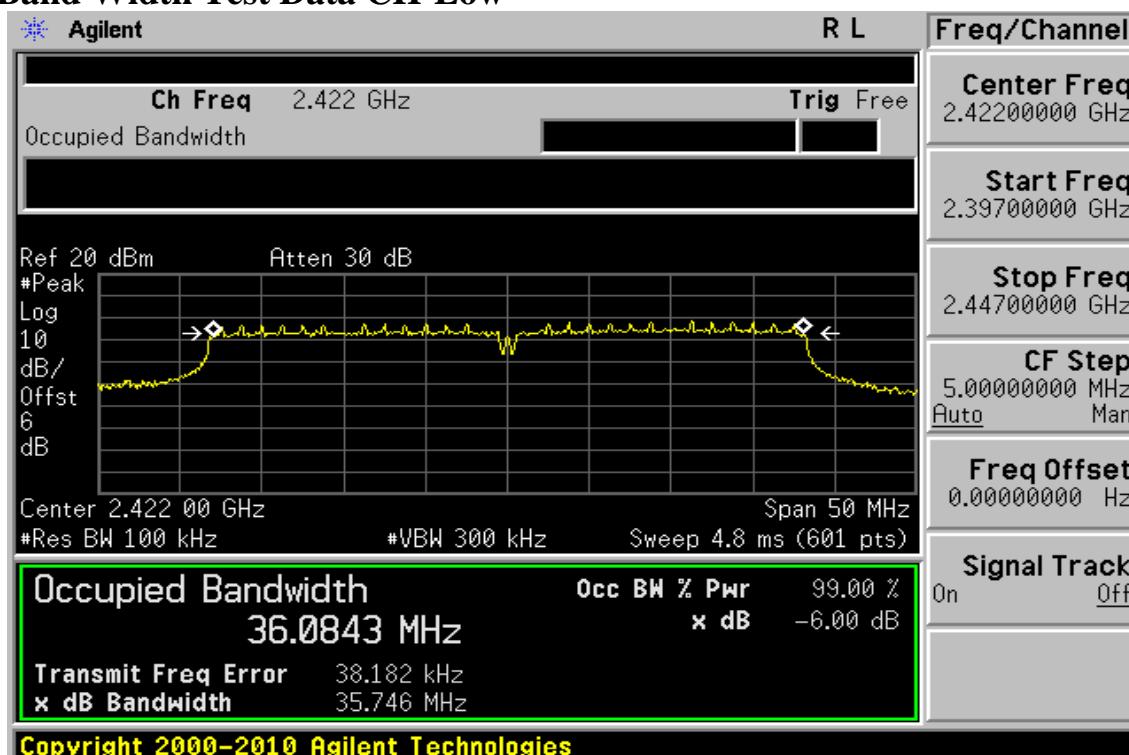
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802.11n_20M
99% Band Width Test Data CH-Low

99% Band Width Test Data CH-Mid


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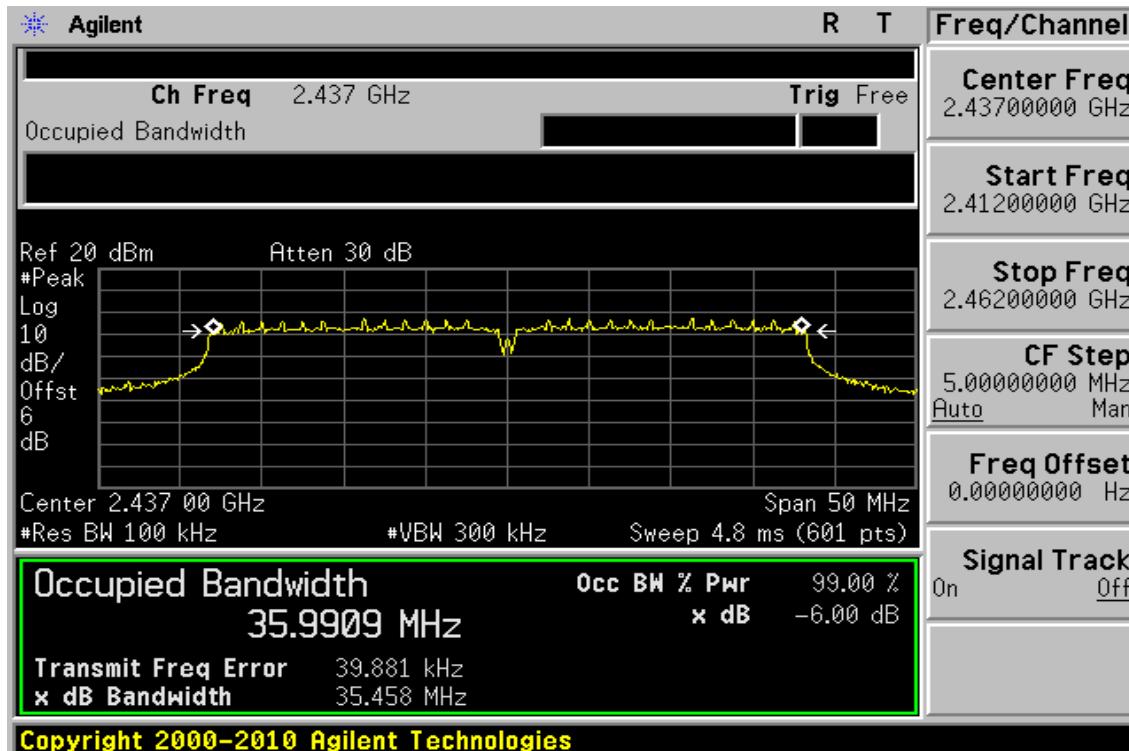
99% Band Width Test Data CH-High

802.11n_40M
99% Band Width Test Data CH-Low


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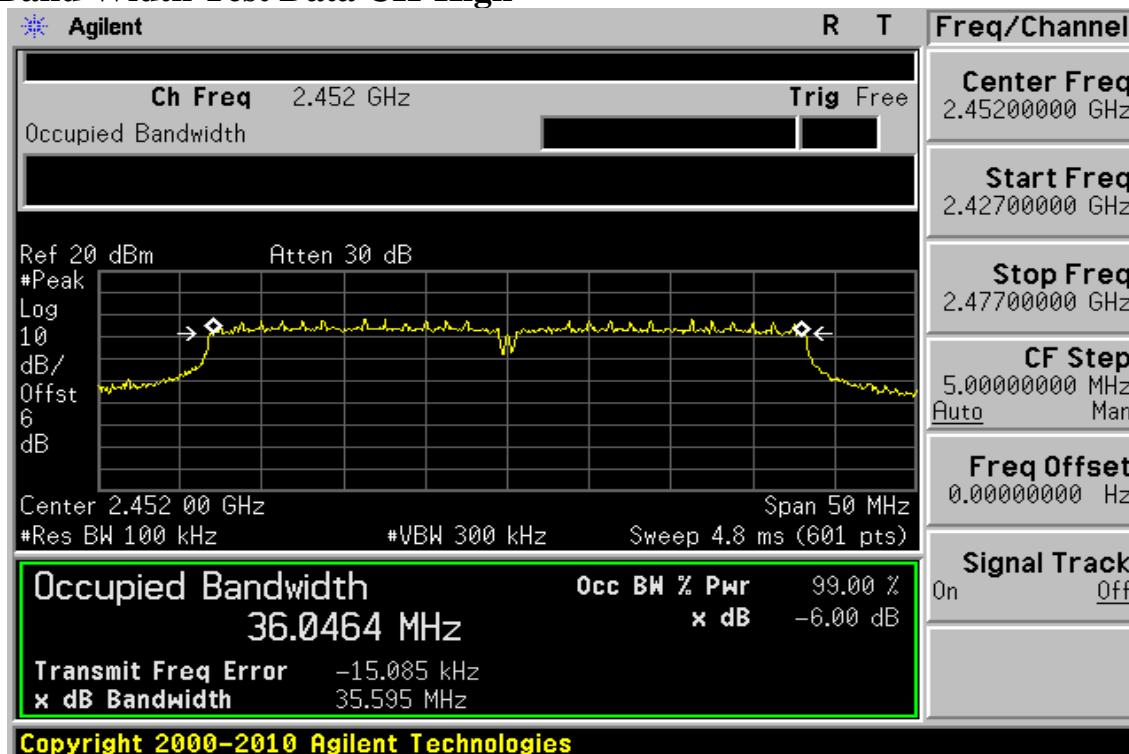
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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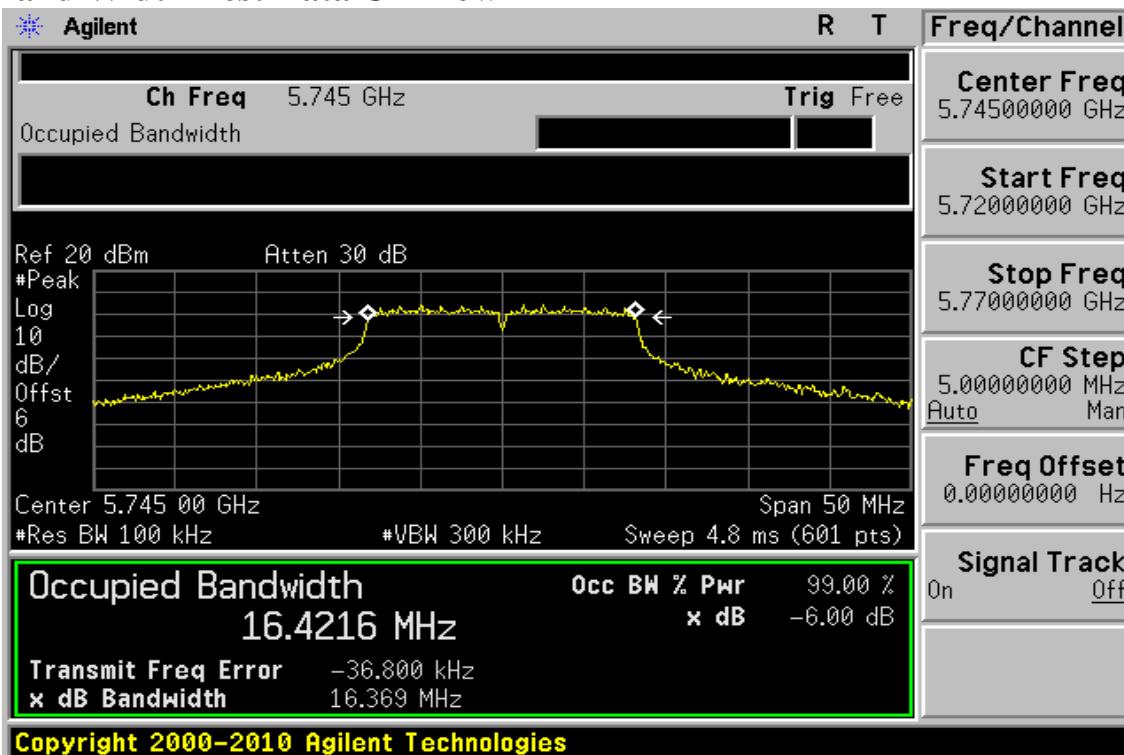
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802.11a**99% Band Width Test Data CH-Low**

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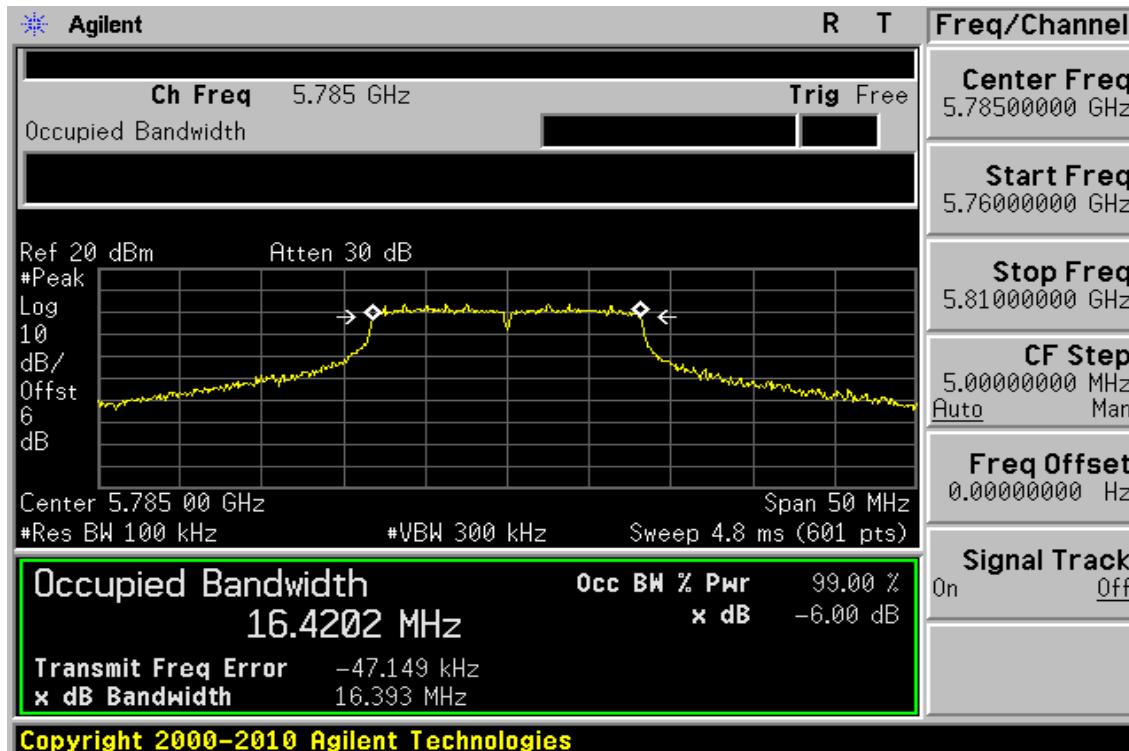
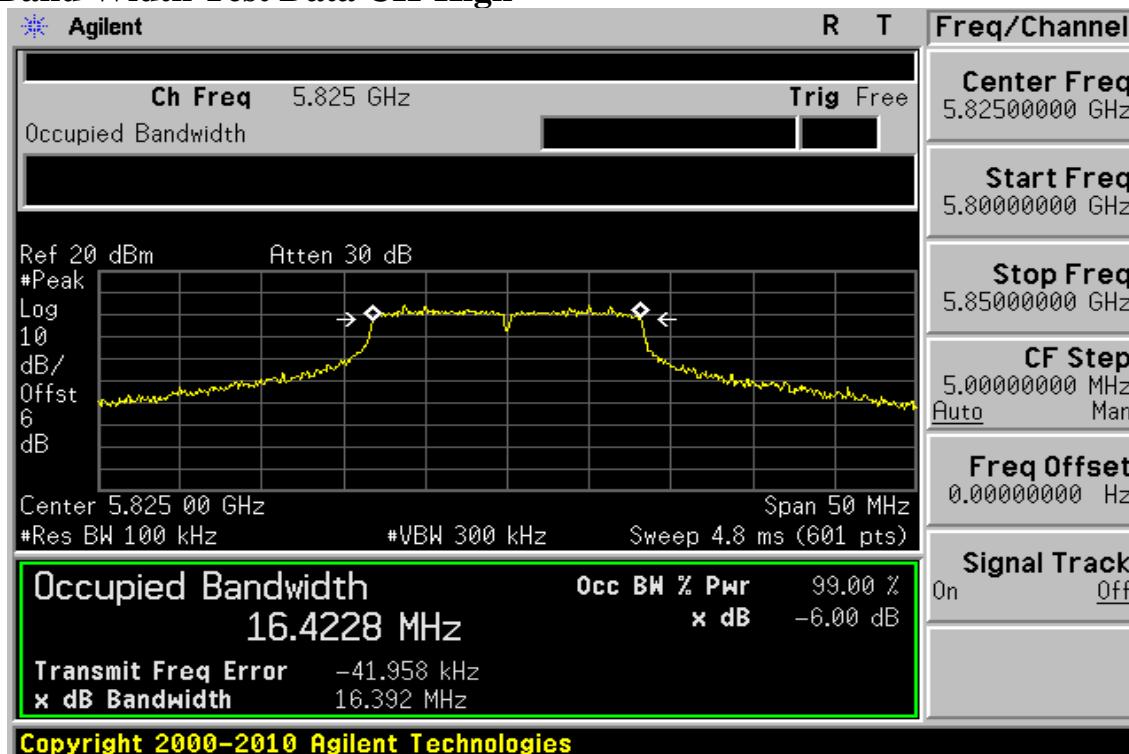
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99% Band Width Test Data CH-Mid**99% Band Width Test Data CH-High**

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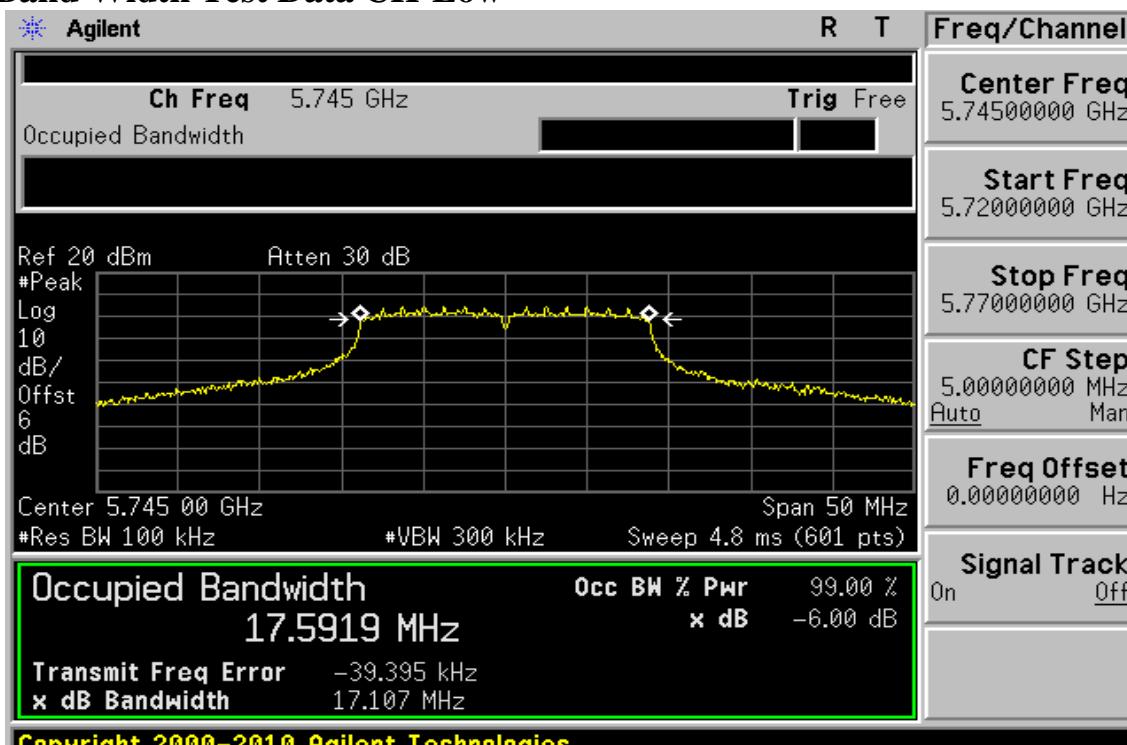
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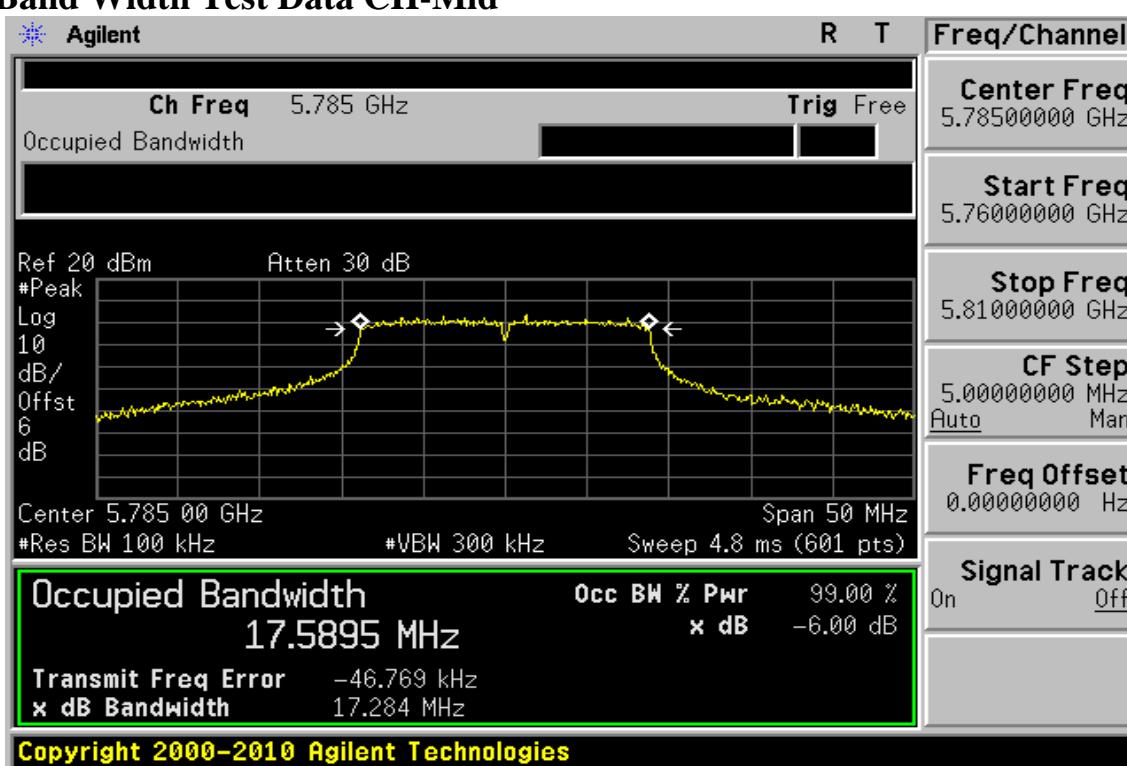
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802.11n_ (5GHz) 20M
 99% Band Width Test Data CH-Low


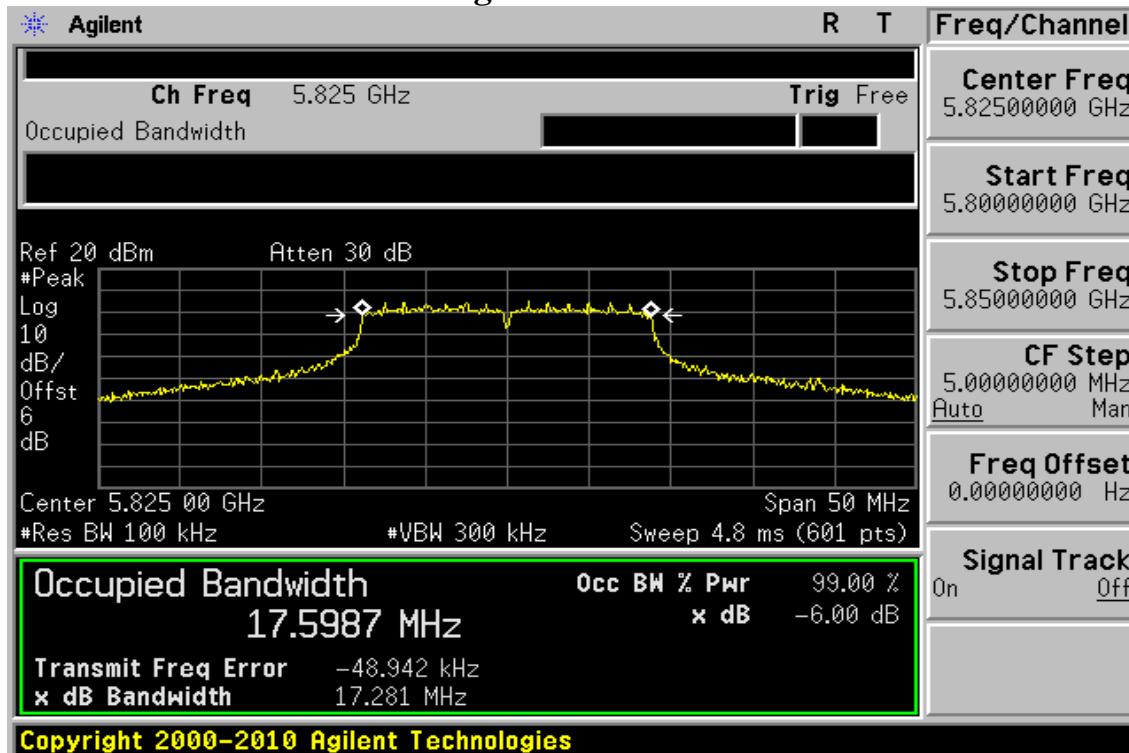
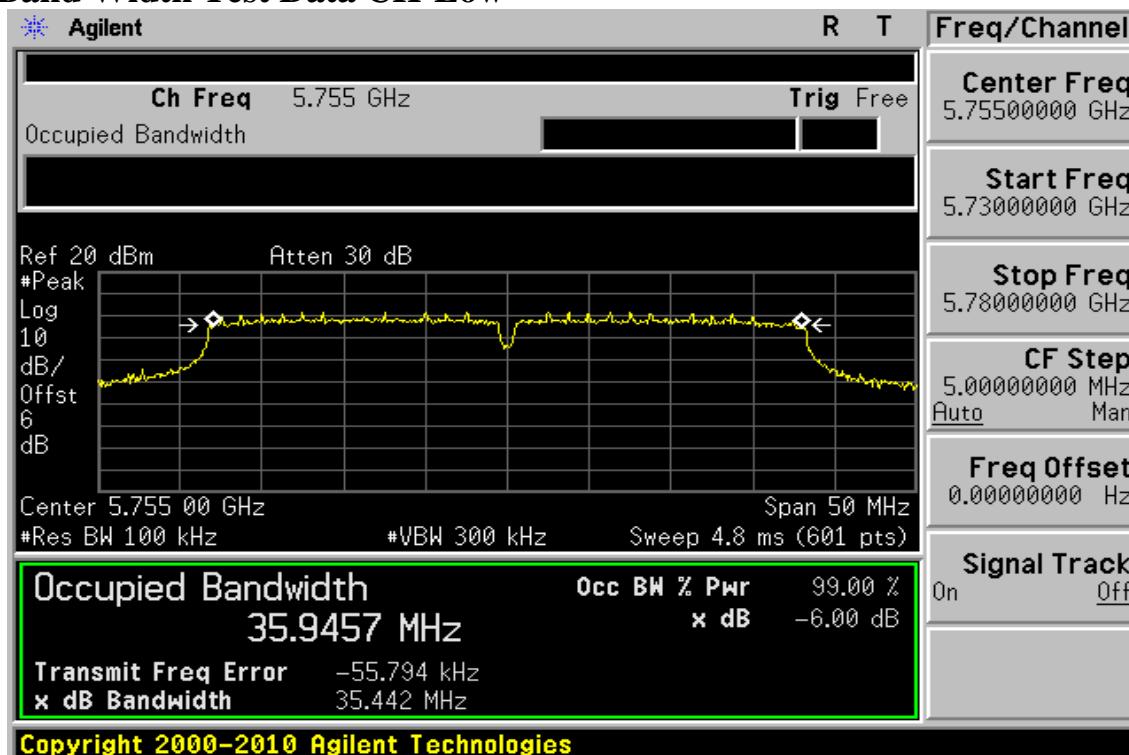
99% Band Width Test Data CH-Mid



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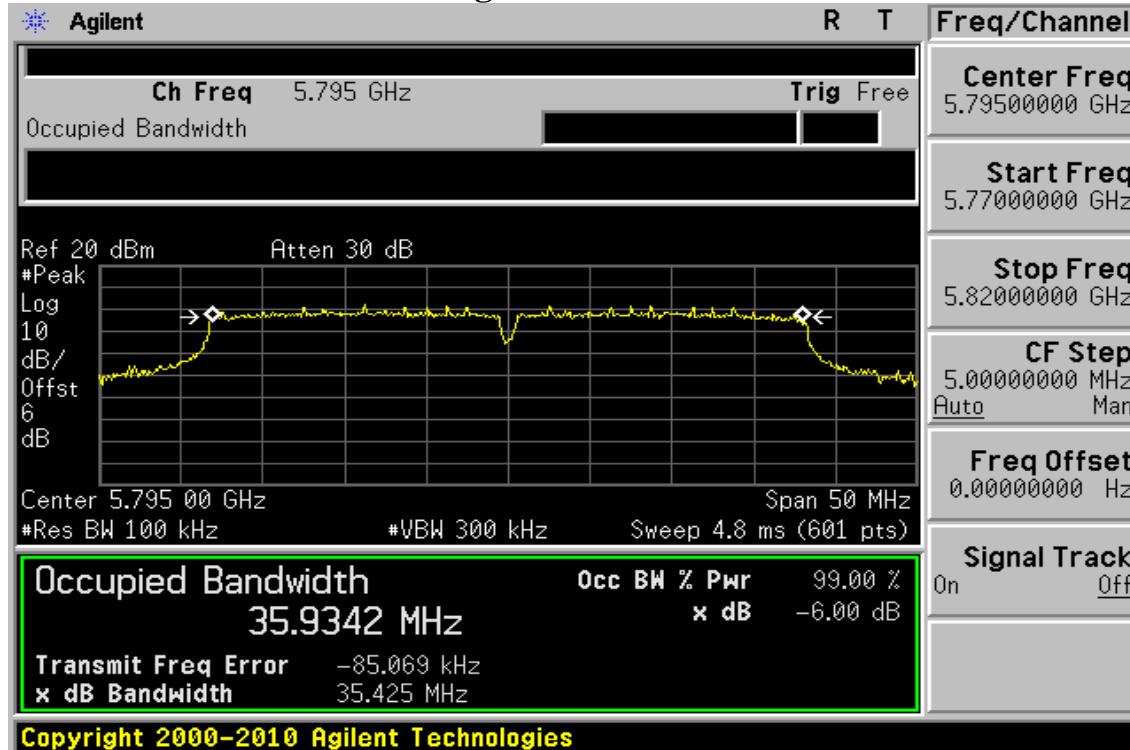
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99% Band Width Test Data CH-High

802.11n_ (5GHz) 40M
99% Band Width Test Data CH-Low


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99% Band Width Test Data CH-High

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12 6dB Bandwidth

12.1 Standard Applicable:

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

According to RSS 210 issue 8: 2010 Annex 8.2. Systems employing digital modulation techniques (which includes direct sequence) can now be certified under RSS-210 provided they comply with the following requirements: The minimum 6 dB bandwidth shall be at least 500 kHz.

12.2 Measurement Equipment Used:

Refer to section 6.2 for details.

12.3 Test Set-up:

Refer to section 6.3 for details.

12.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the 3.antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW = 3*RBW, Span= 30M/60MHz, Sweep=auto
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

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12.5 Measurement Result:

802.11b

Frequency MHz	6dB Bandwidth (MHz)
2412	10.130
2437	10.086
2462	10.037

802.11g

Frequency MHz	6dB Bandwidth (MHz)
2412	16.355
2437	16.375
2462	16.394

802.11n_20M

Frequency MHz	6dB Bandwidth (MHz)
2412	17.058
2437	17.260
2462	17.256

802.11n_40M

Frequency MHz	6dB Bandwidth (MHz)
2422	35.746
2437	35.458
2462	35.595

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802.11a

Frequency MHz	6dB Bandwidth (MHz)
5745	16.369
5785	16.393
5825	16.392

802.11n(5GHz)_20M

Frequency MHz	6dB Bandwidth (MHz)
5745	17.107
5785	17.284
5825	17.281

802.11n(5GHz)_40M

Frequency MHz	6dB Bandwidth (MHz)
5755	35.442
5795	35.425

Note: Refer to next page for plots.

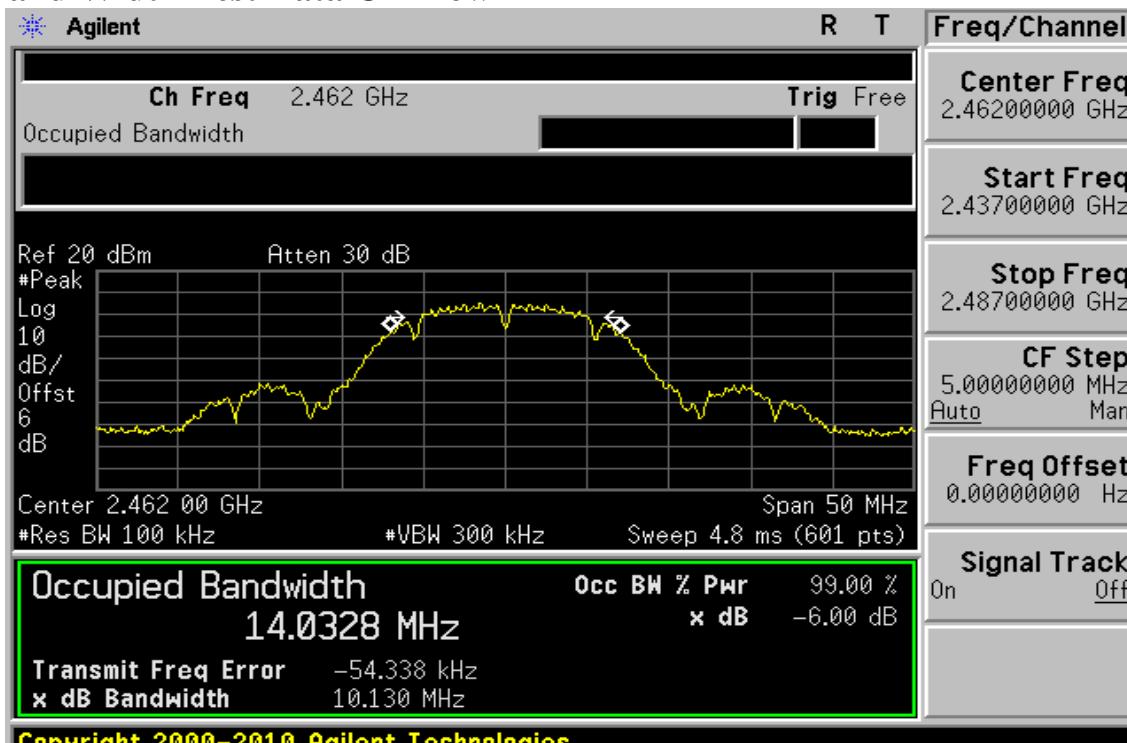
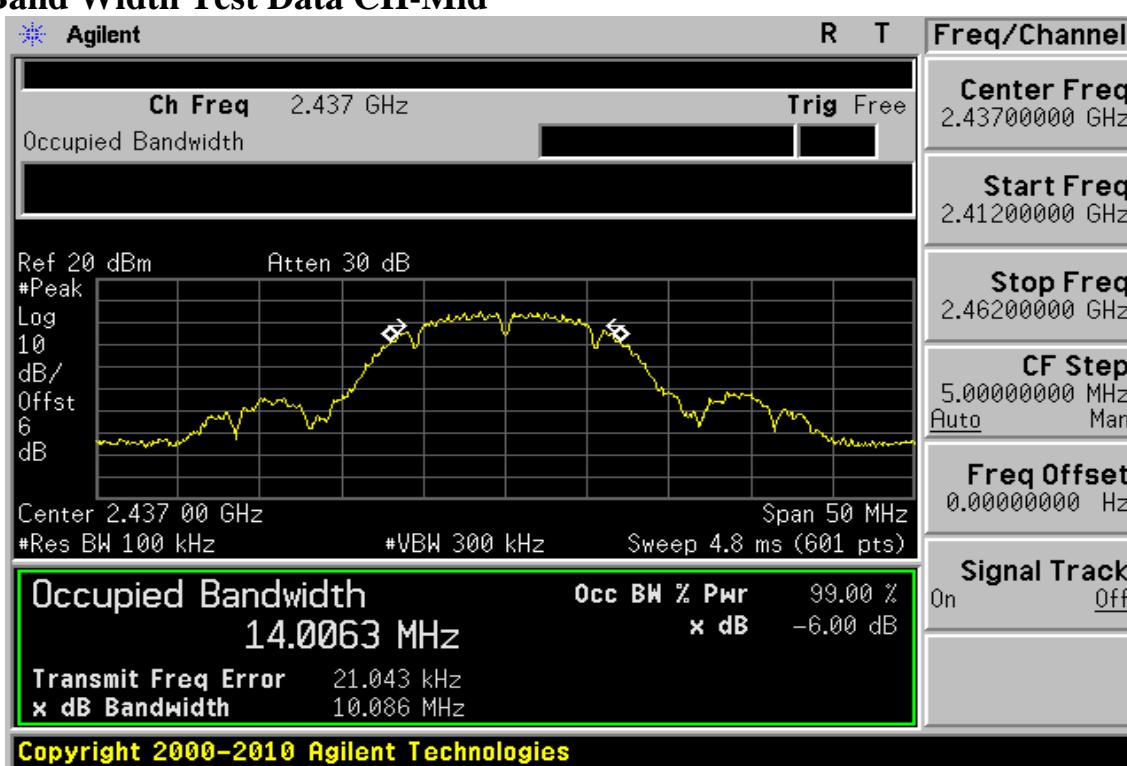
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802.11b
6dB Band Width Test Data CH-Low

6dB Band Width Test Data CH-Mid


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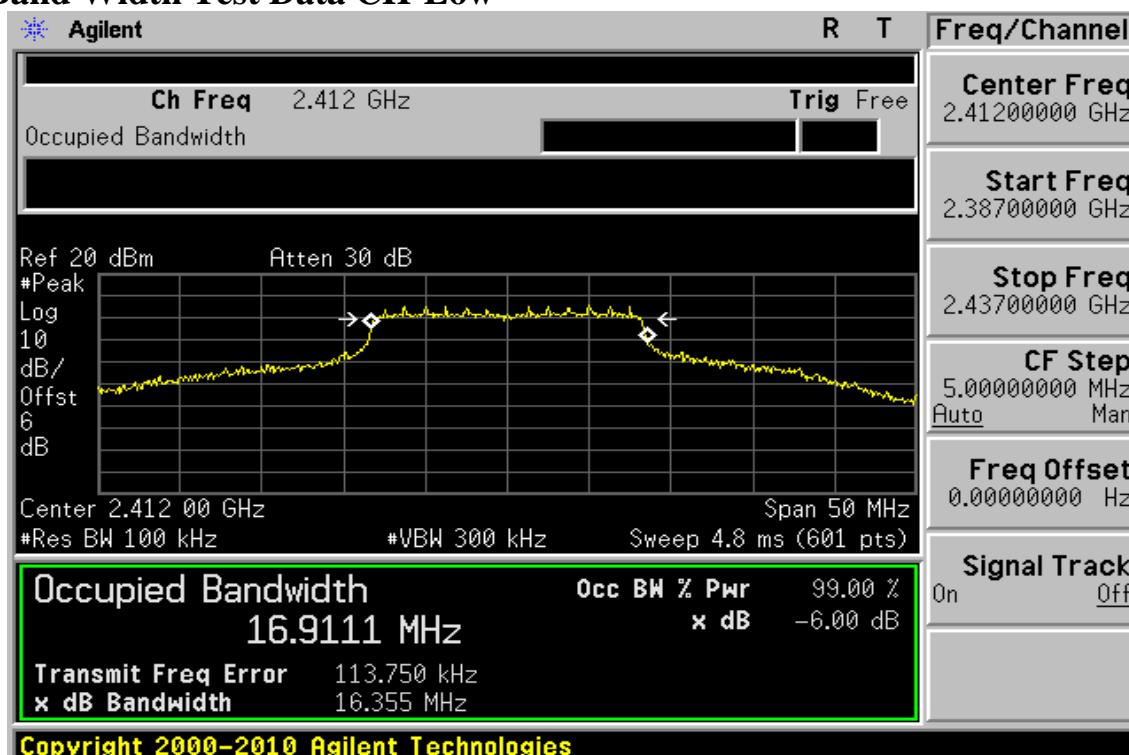
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

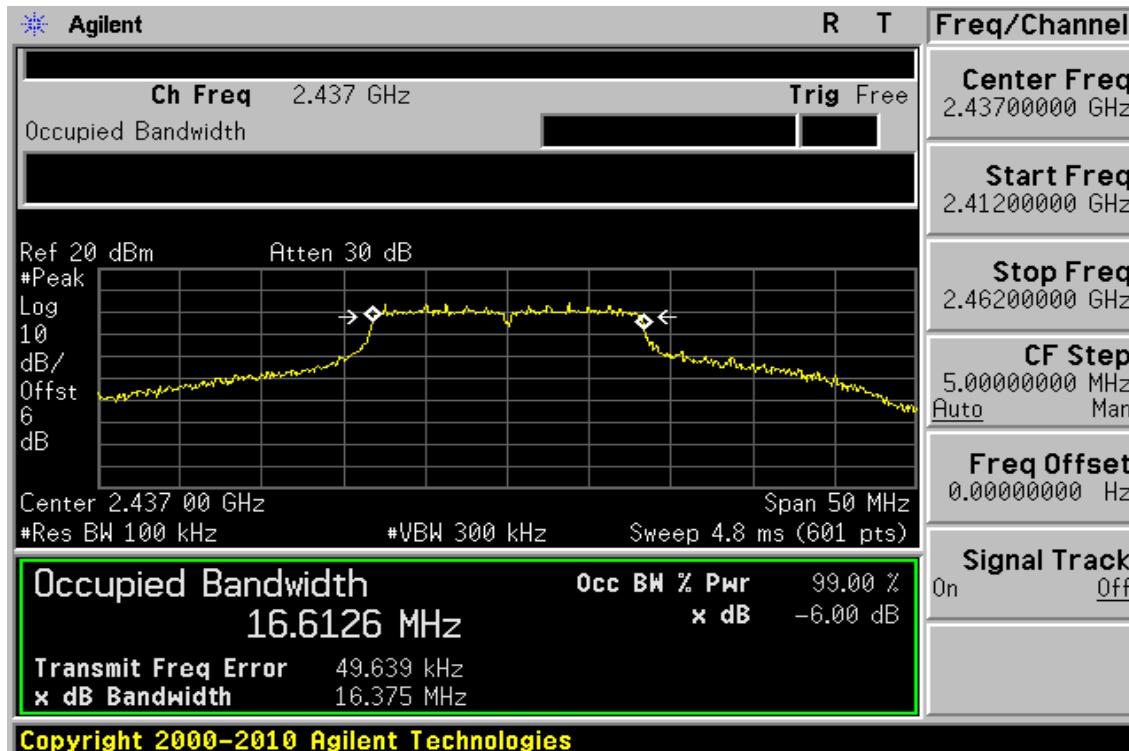


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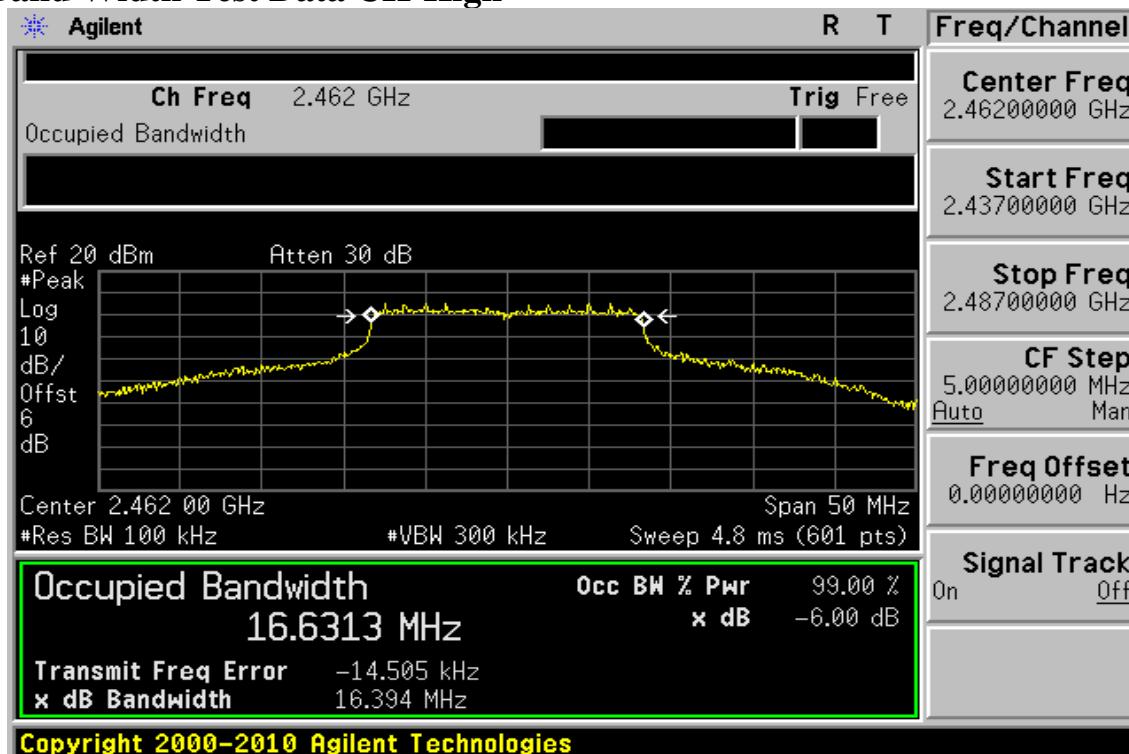
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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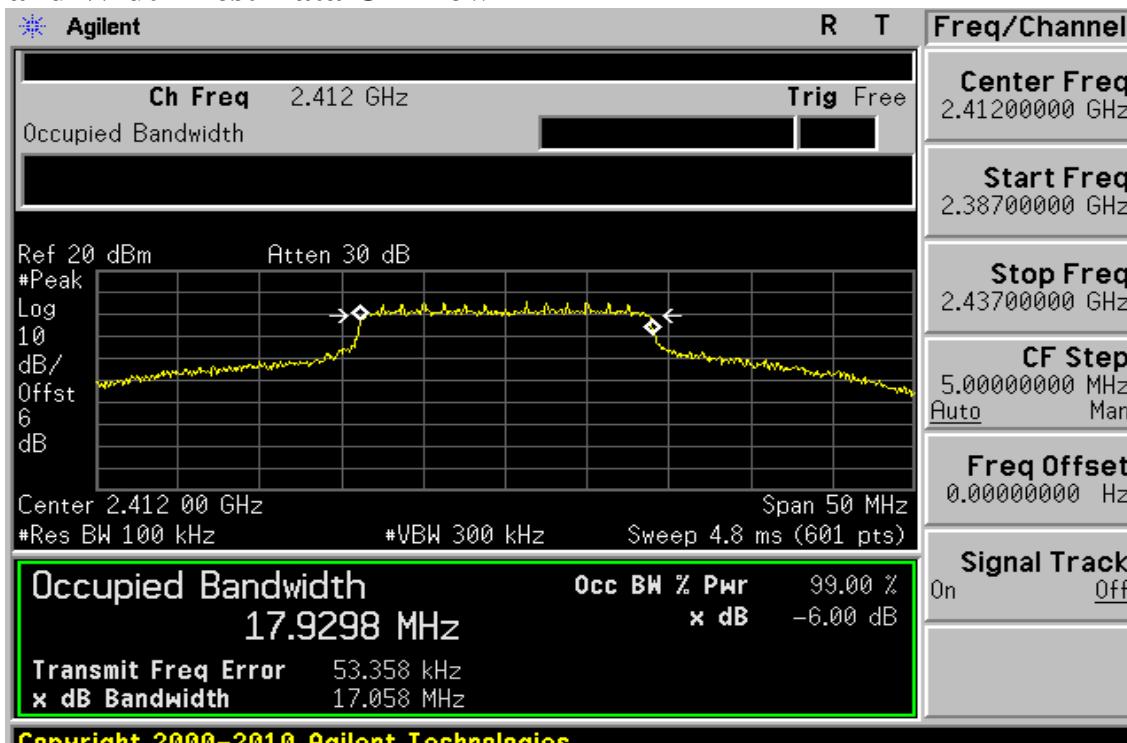
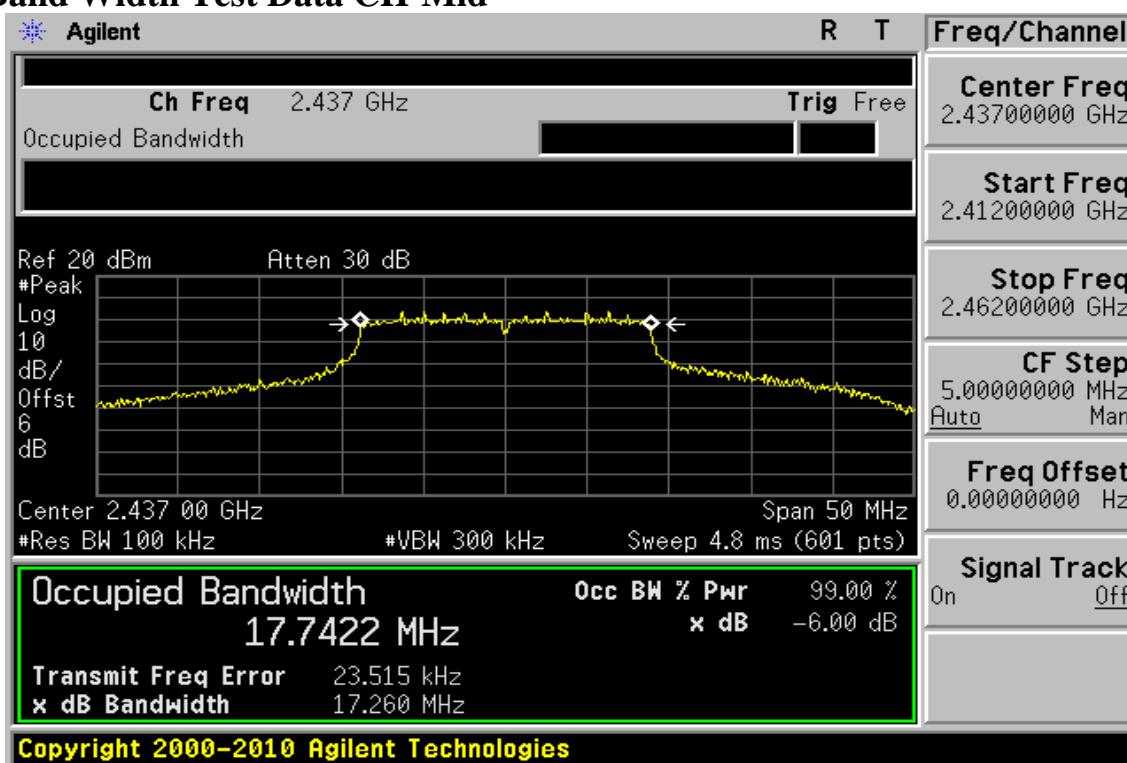
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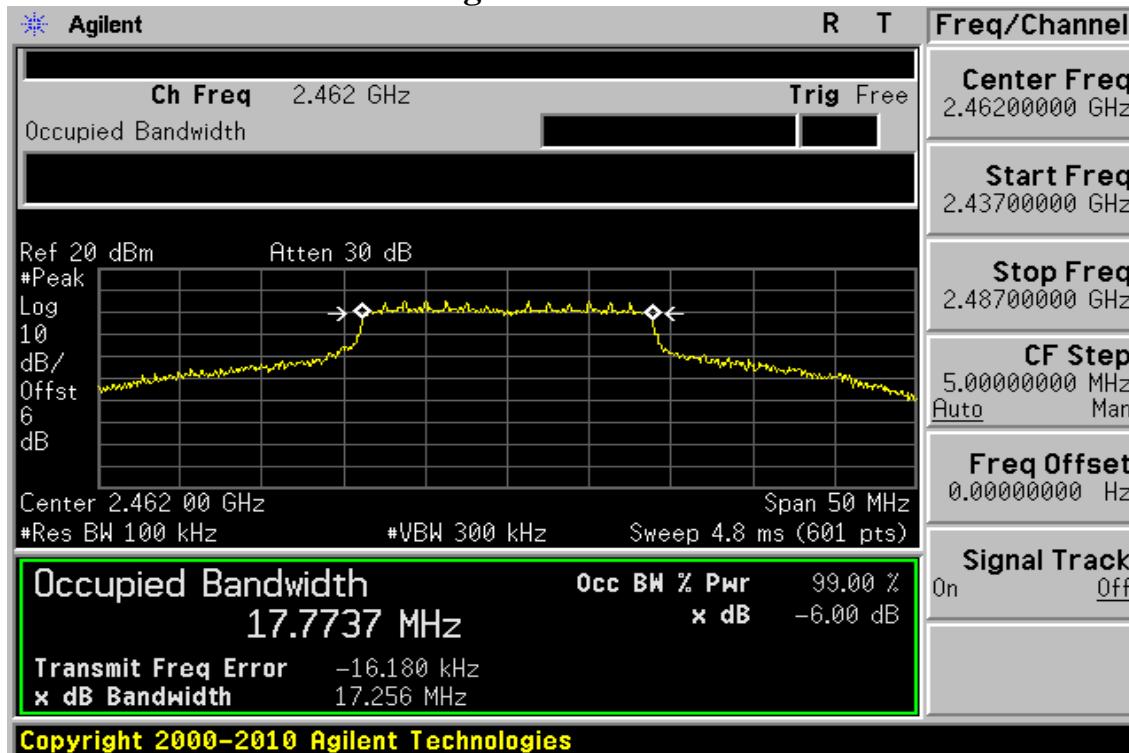
802.11n_20M
6dB Band Width Test Data CH-Low

6dB Band Width Test Data CH-Mid


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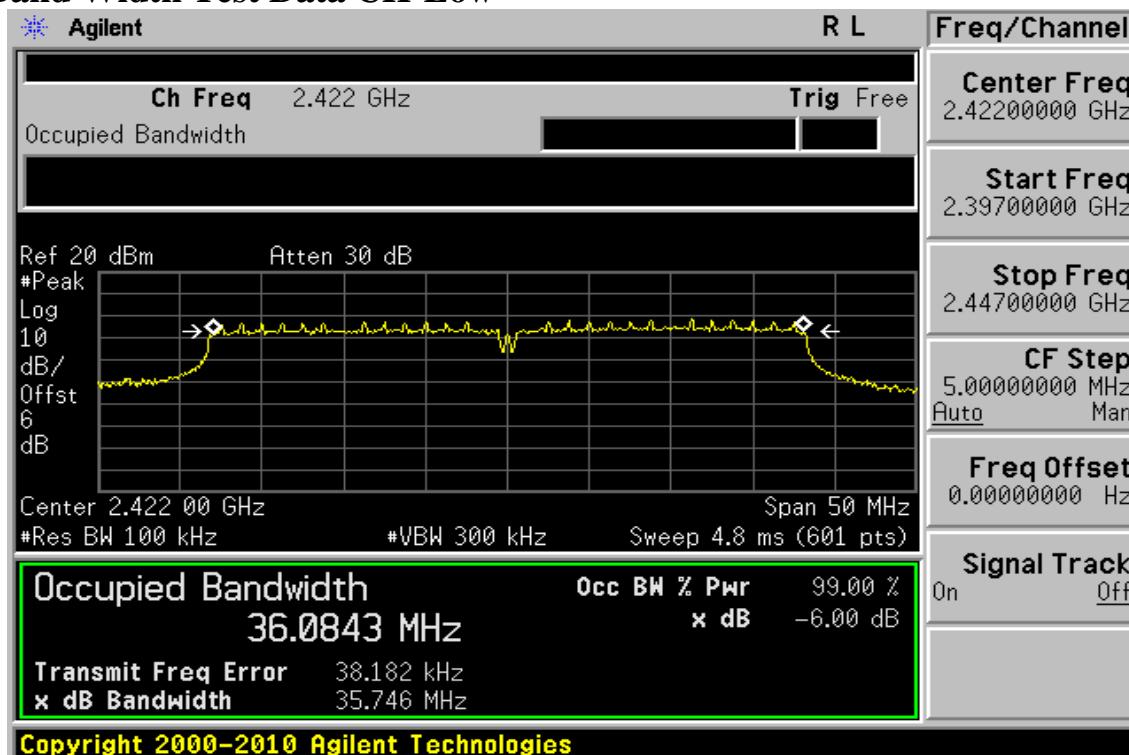
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6dB Band Width Test Data CH-High



802.11n_40M

6dB Band Width Test Data CH-Low



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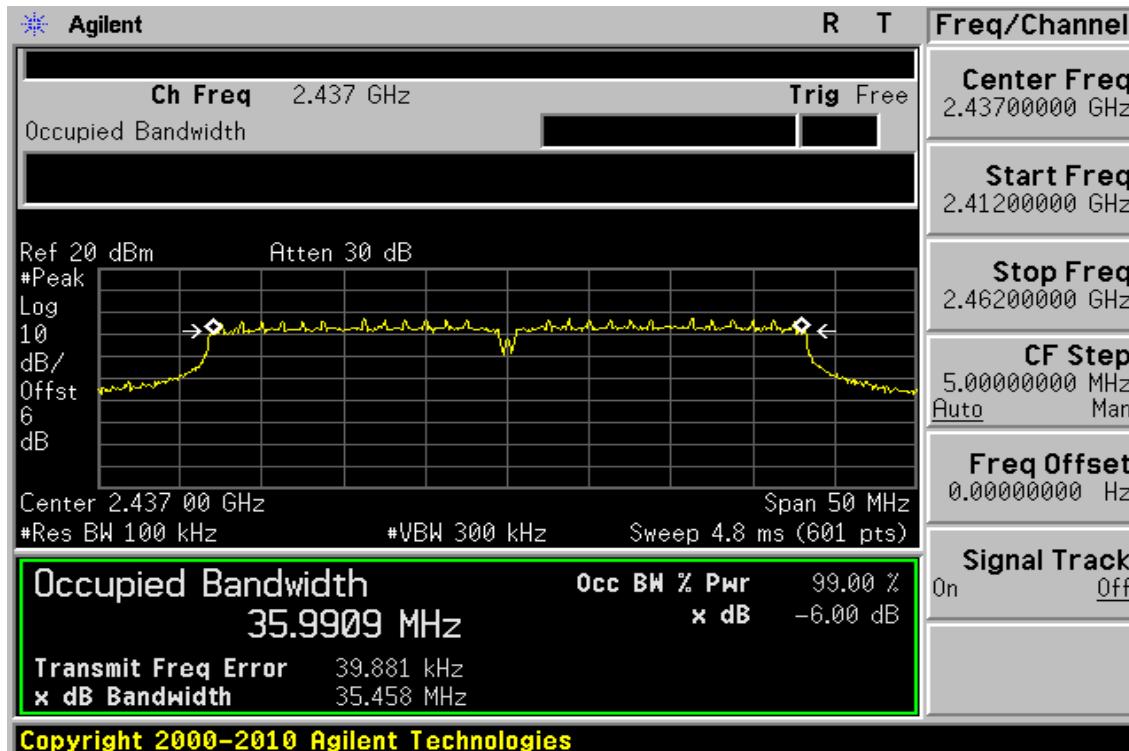
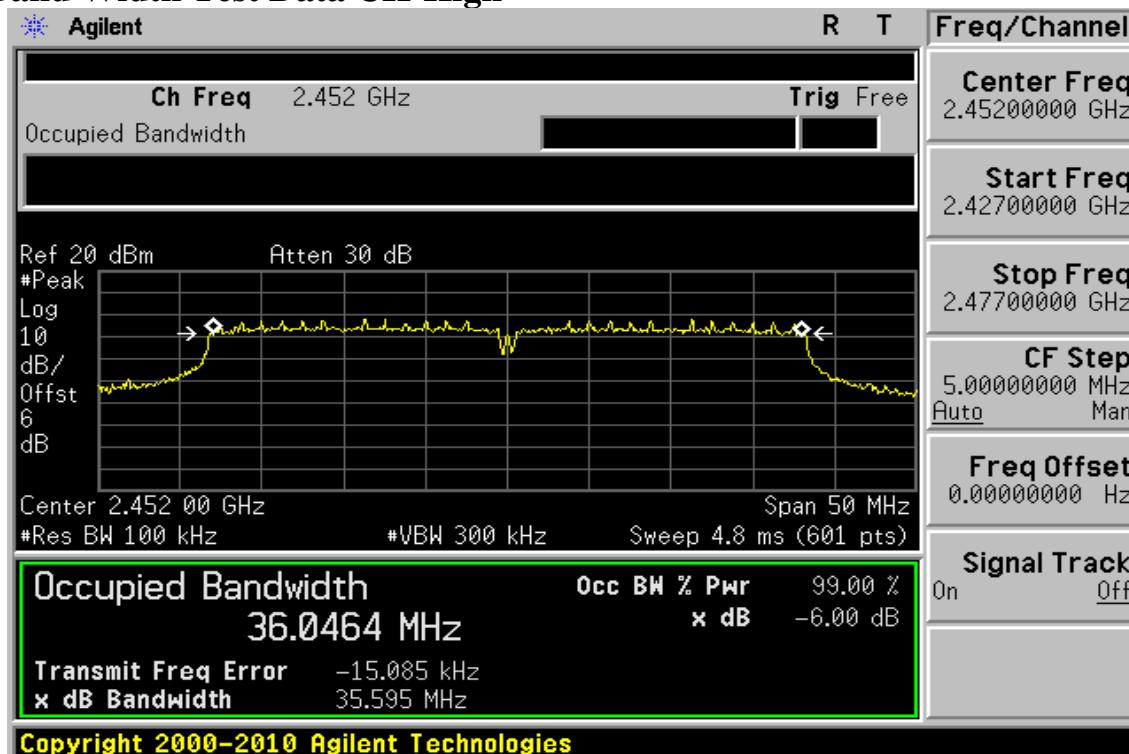
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6dB Band Width Test Data CH-Mid**6dB Band Width Test Data CH-High**

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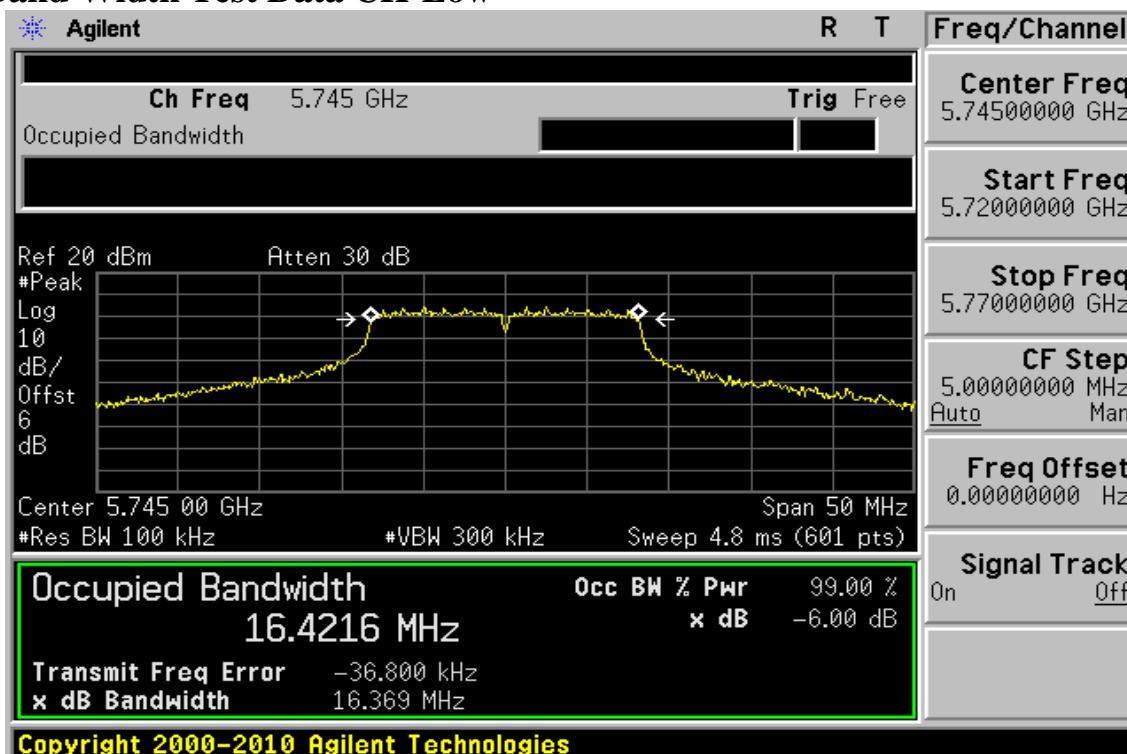
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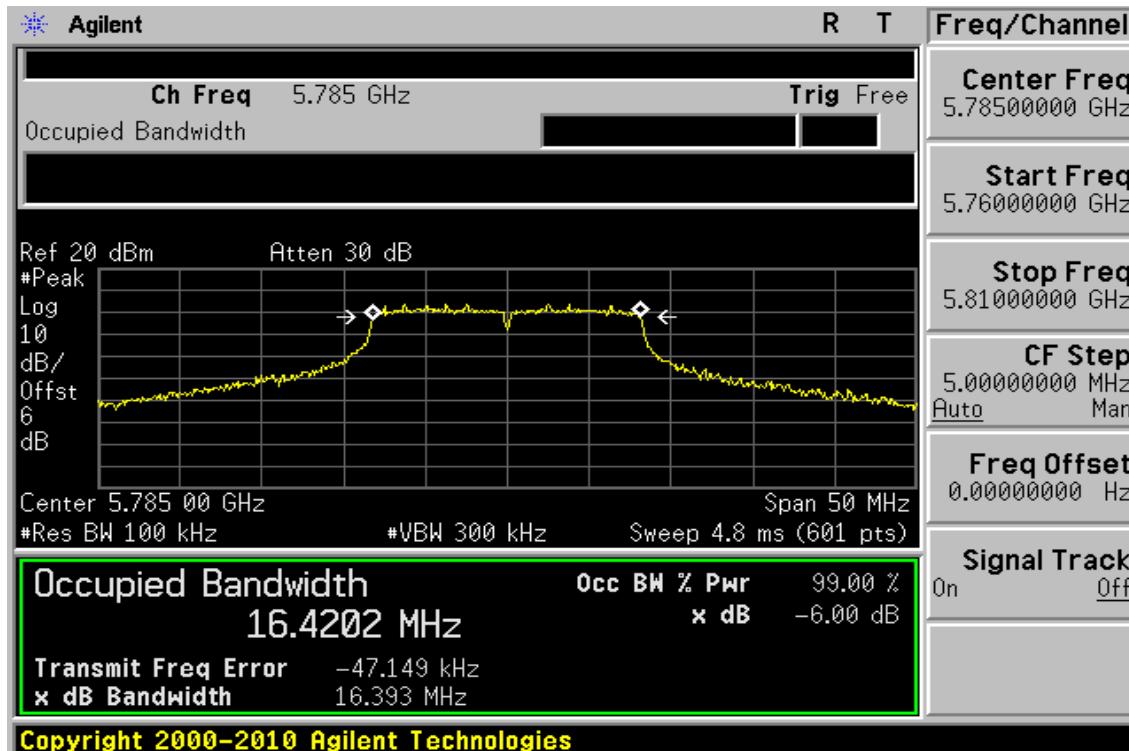
802.11a 6dB Band Width Test Data CH-Low



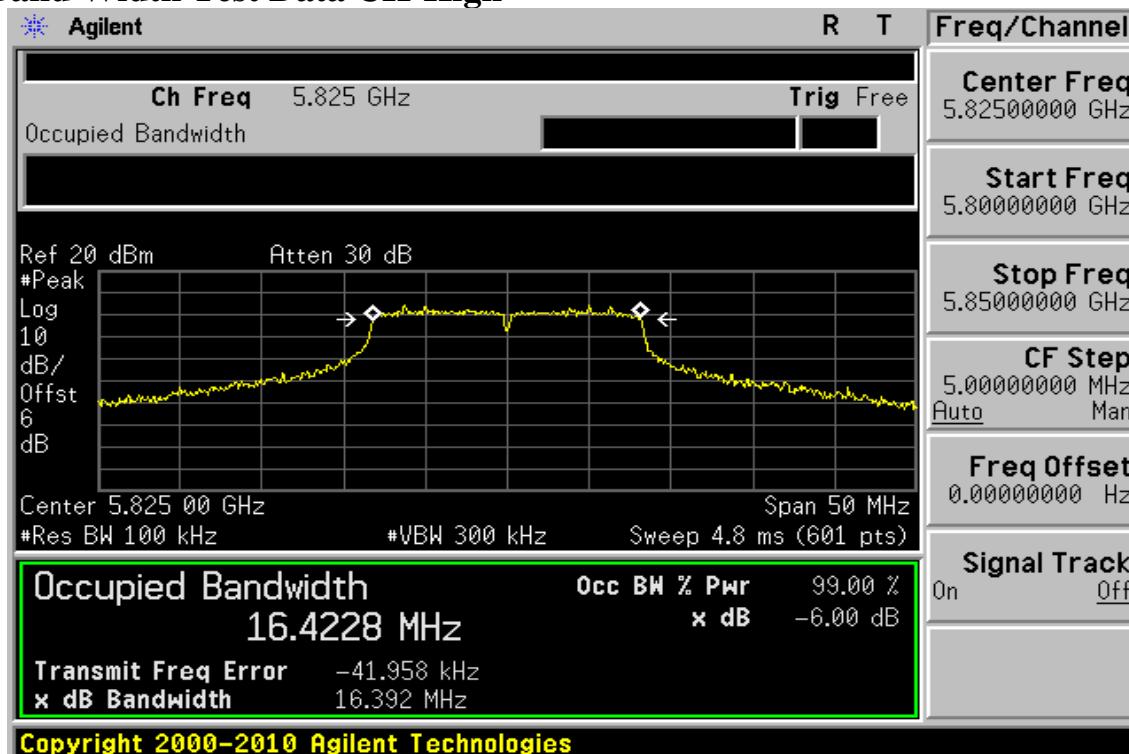
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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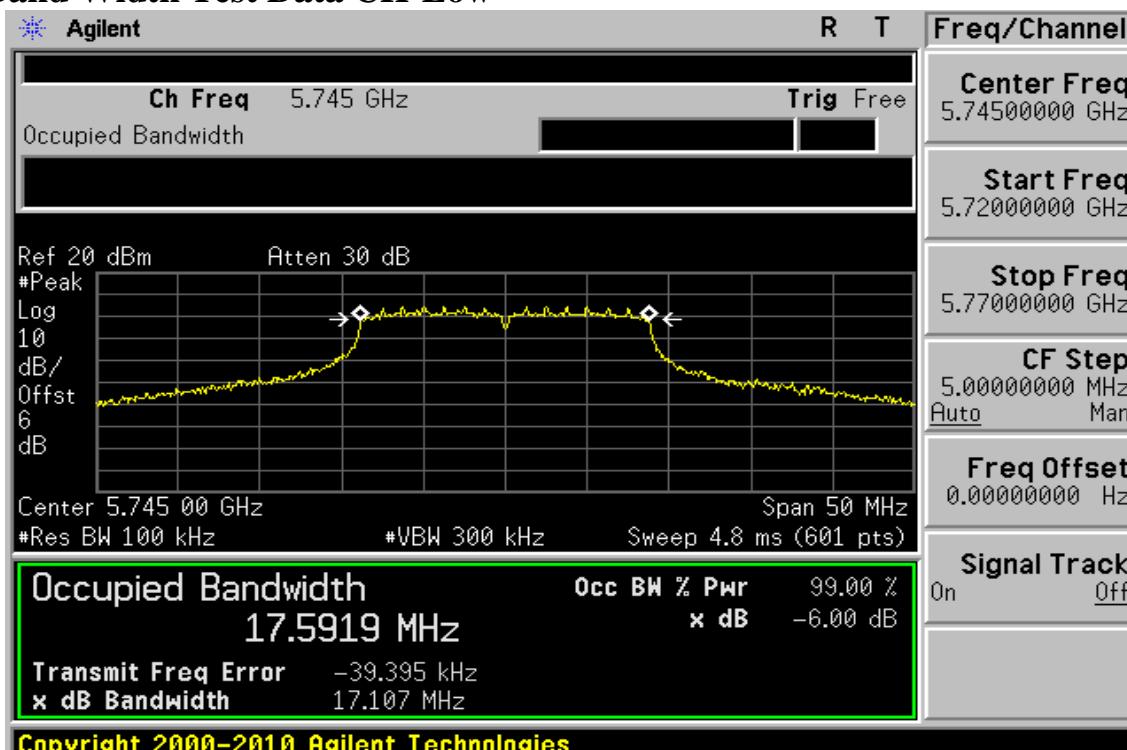
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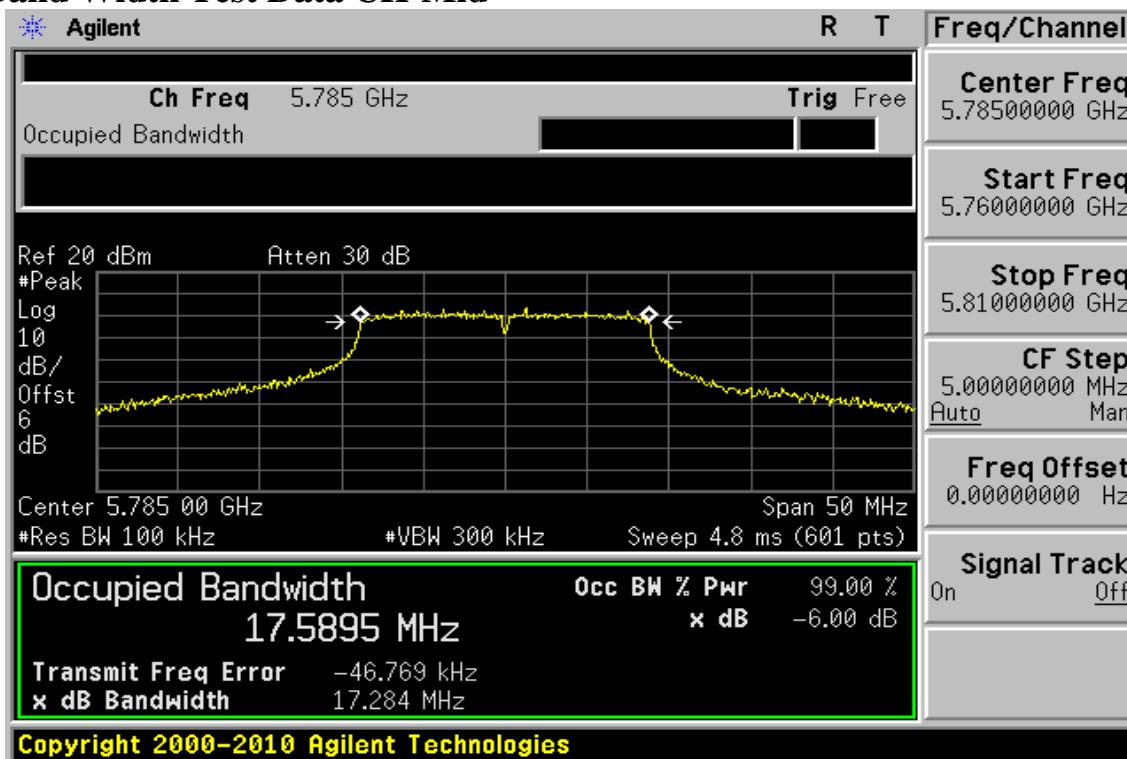
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802.11n_ (5GHz) 20M 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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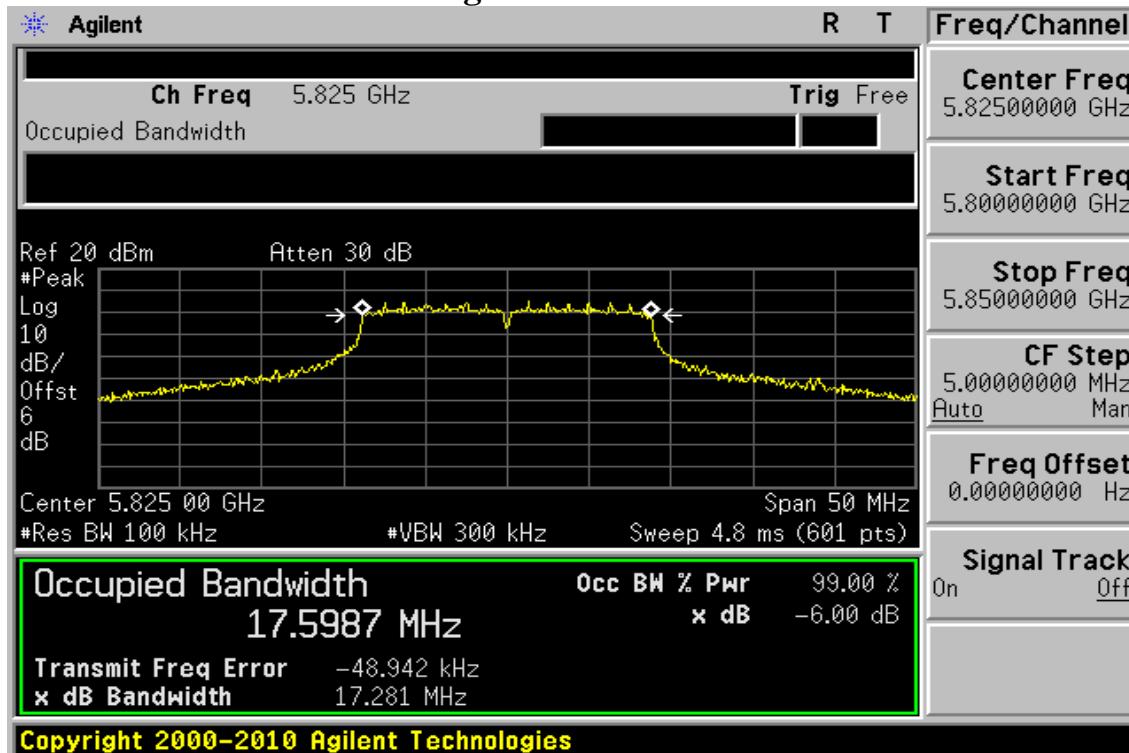
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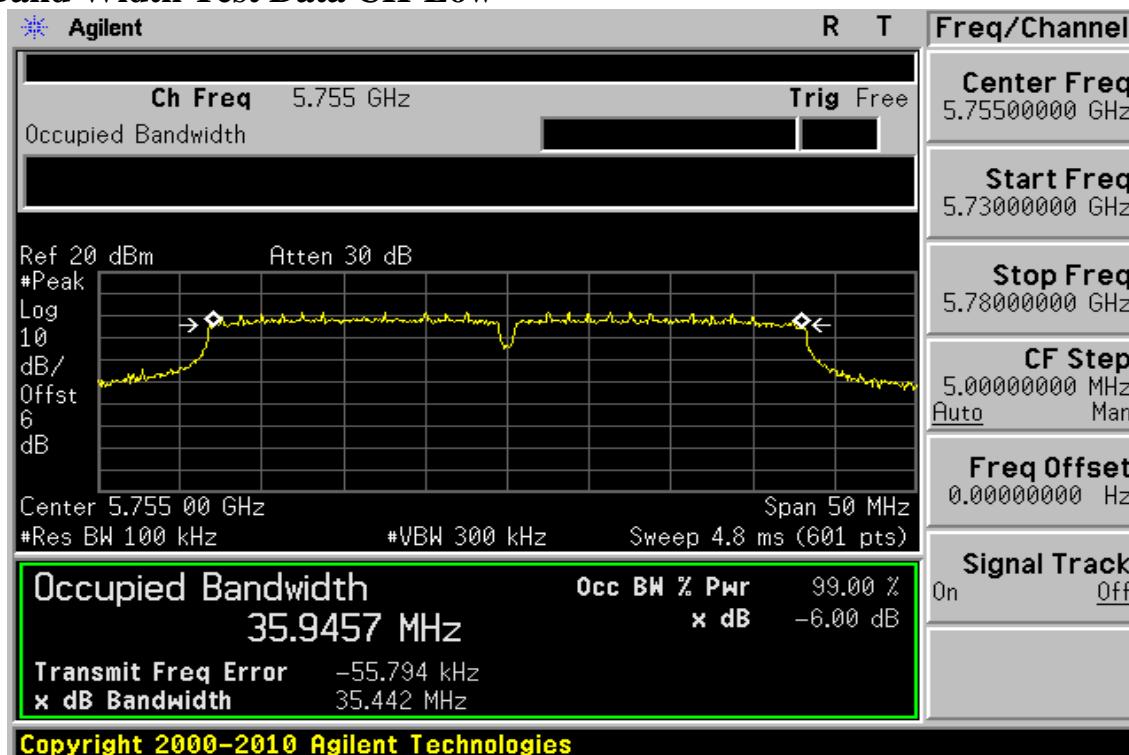
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6dB Band Width Test Data CH-High



802.11n_ (5GHz) 40M

6dB Band Width Test Data CH-Low



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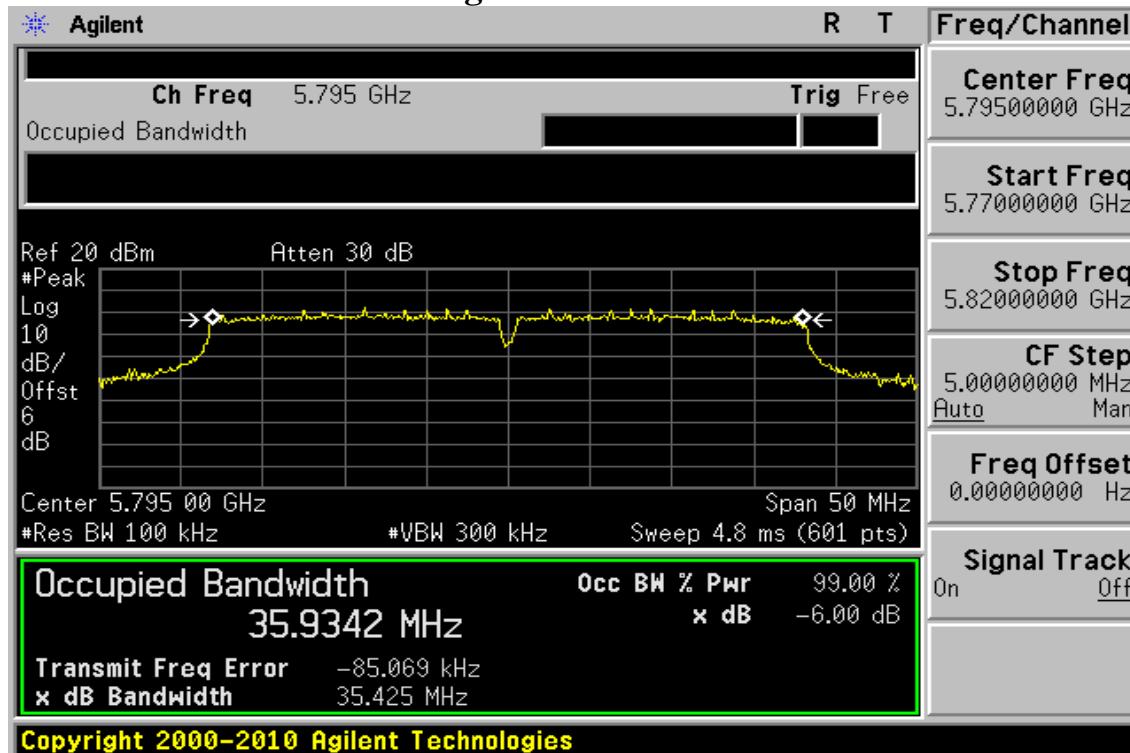
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6dB Band Width Test Data CH-High

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