

TEST REPORT

ACCORDING TO: FCC part 15 subpart C §15.247

FOR:

Mobile Access Networks Ltd.

RF distribution amplifier

Model:MA850 with new Cisco AP

This report is in conformity with ISO/ IEC 17025. The A2LA logo endorsement applies only to the test methods and the standards that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested.
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1 Applicant information

Client name: Mobile Access Networks
Address: Ofek One Center, Building 2, Northern Industrial zone, Lod, Israel, 71293
Telephone: +972 8918 3888
Fax: +972 8918 3844
E-mail: kochavy@mobileaccess.com
Contact name: Mr. Kochav Yadid, QA and Integration director

2 Equipment under test attributes

Product name: RF distribution amplifier
Model(s): MA850 with new Cisco AP
Receipt date 5/24/2006

3 Manufacturer information

Manufacturer name: Mobile Access Networks
Address: Ofek One Center, Building 2, Northern Industrial zone, Lod, Israel, 71293
Telephone: +972 8918 3888
Fax: +972 8918 3844
E-Mail: kochavy@mobileaccess.com
Contact name: Mr. Kochav Yadid, QA and Integration director

4 Test details

Project ID: 17138
Location: Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel
Test started: 5/24/2006
Test completed: 7/17/2006
Test specification(s): FCC part 15 subpart C, §15.247

5 Tests summary

Test	Status
Transmitter characteristics	
Section 15.247(a)2, 6 dB bandwidth	Pass
Section 15.247(b)3, Peak output power	Pass
Section 15.247(c), Conducted spurious emissions	Pass
Section 15.247(c), Radiated spurious emissions	Pass
Section 15.247(d), Peak power density	Pass
Section 15.203, Antenna requirement	Professional installation is required
Section 15.207(a), Conducted emission	Pass
Unintentional emissions	
Section 15.107, Conducted emission at AC power port	Pass

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested.

The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

This test report replaces the previously issued test report identified by Doc ID:MOBRAD_FCC.17138.

	Name and Title	Date	Signature
Tested by:	Mr. A. Adelberg, test engineer	July 16, 2006	
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	July 17, 2006	
Approved by:	Mr. M. Nikishin, EMC and radio group leader	July 17, 2006	

6 EUT description

6.1 General information

The EUT, MobileAccess 850 provides secure and centralized connection for a number of 802.11a/b/g Access Points, significantly expands 802.11 coverage and enables distributing the data services over the same coax and antenna infrastructure used for distributing voice services through other MobileAccess products.

6.2 Ports and lines

Port type	Port description	Connected		Connector type	Qty.	Cable type	Cable length
		From	To				
Power	48 V DC	adapter	EUT	Power plug	1	unshielded	1.5 m
Power	AC power	mains	adapter	IEC 60320	1	unshielded	1.5 m
Signal	RS232	Open circuit	D-type	1	NA	NA	NA
Signal	Ethernet	Open circuit	RJ-45	1	NA	NA	NA
Conducted measurements							
Signal	802.11b/g	EUT	Access point	TNC modified	1	coax	0.7 m
Signal	802.11b/g	EUT	50 Ω termination	TNC modified	3	NA	NA
Signal	802.11a	EUT	Access point	TNC modified	1	coax	0.7 m
Signal	802.11a	EUT	50 Ω termination	TNC modified	3	NA	NA
RF	Antenna	EUT	50 Ω termination	n-type female	4	NA	NA
RF	CELL mobile services	EUT	Signal generators via divider/splitter	SMA female	1	coax	0.7 m
RF	CELL mobile services	EUT	50 Ω termination	SMA female	1	NA	NA
RF	PCS mobile services	EUT	50 Ω termination	SMA female	2	NA	NA
Radiated measurements							
Signal	802.11b/g	EUT	Access point	TNC modified	4	coax	0.7 m
Signal	802.11a	EUT	Access point	TNC modified	4	coax	0.7 m
RF	Antenna	EUT	antenna	n-type female	4	coax	0.7 m
RF	CELL mobile services	EUT	Signal generators via divider/splitter	SMA female	2	coax	0.7 m
RF	PCS mobile services	EUT	Signal generators via divider/splitter	SMA female	2	coax	0.7 m

6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
Aironet 1240AG series 802.11a/b/g Access Point	Cisco Systems	AIR-AP1240AG-A-K9	FTX1014B26R
			FTX1013B13Q
			FTX1015B152
			FTX1013B13L
Adapter (Access Point)	Cisco Systems	NA	PHI09050DEC
			PHI08280RGY
			PHI090803G3
			PHI0828126A
4 Sencity@Art Ultra-broadband antennas	Huber+Suhner	SWA 0859/360/4/10/V	Art. No. 23040329
Adapter (EUT)	NA	SB-480A7F-11	006291
Signal generator	HP	E4431B	U538220140
Signal generator	HP	8656A	2228A03615
Laptop	IBM	2645-4A0	5515FL6
Adapter (laptop)	IBM	N79	02K6543
Splitter	HL	NA	NA
Divider	HL	NA	NA

6.4 Operating frequencies

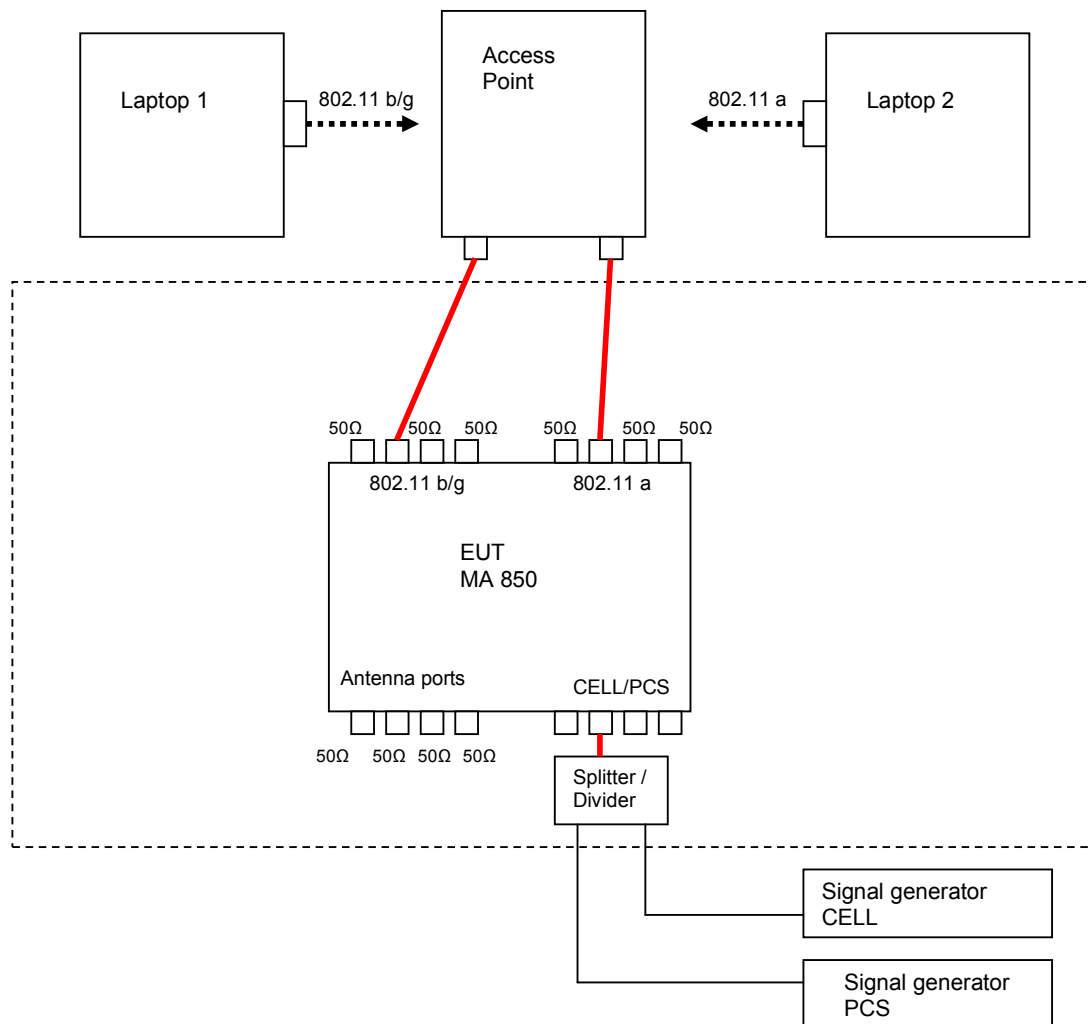
Frequency, MHz
800-1000
1800-2000
2400-2483.5
5150-5825

6.5 Changes made in the EUT

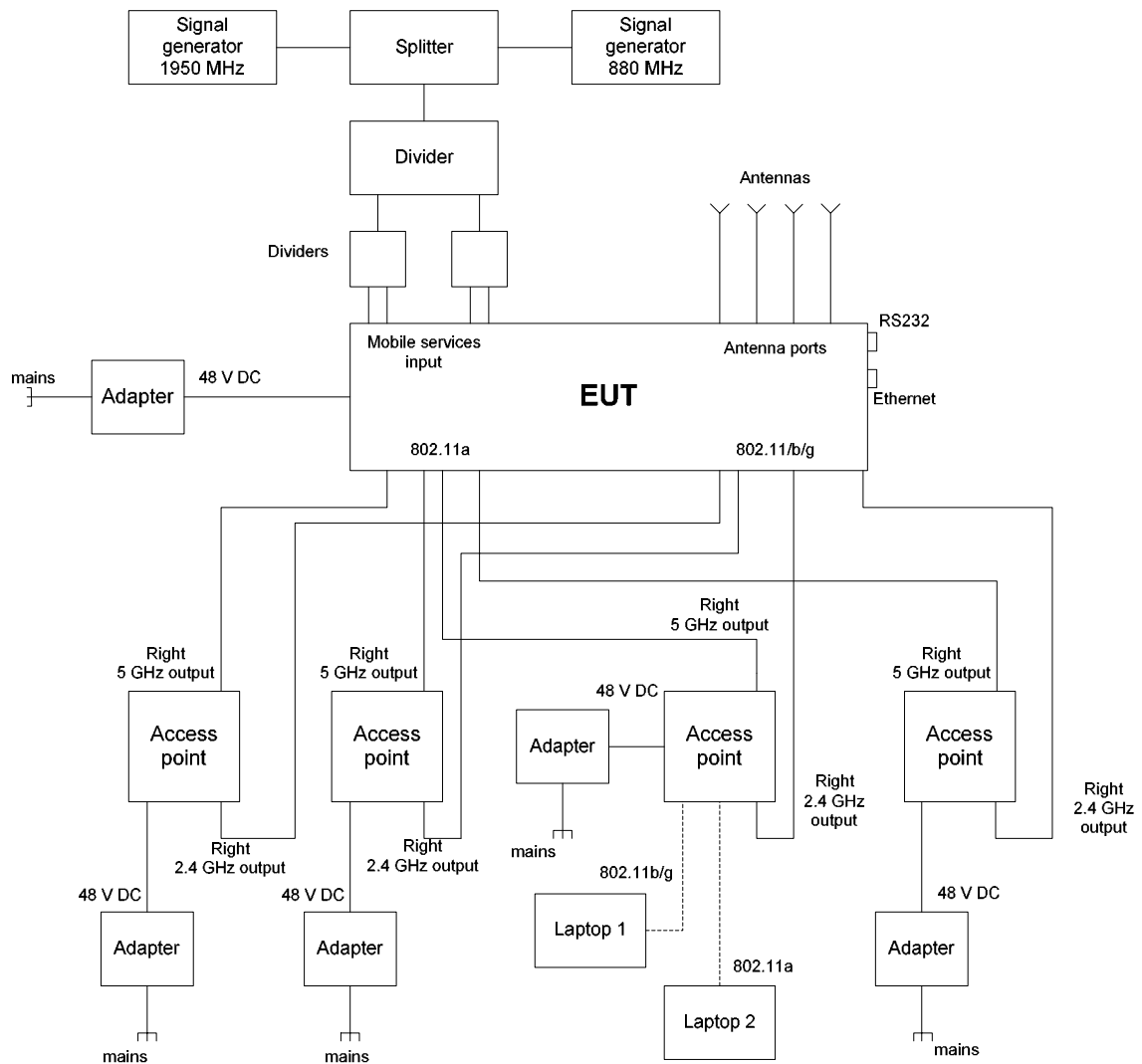
No changes were implemented.

6.6 Test configuration

6.6.1 EUT setup for conducted measurements



6.6.2 EUT setup for radiated measurements



6.7 Transmitter characteristics

Type of equipment				
	Stand-alone (Equipment with or without its own control provisions)			
X	Combined equipment (Equipment where the radio part is fully integrated within another type of equipment)			
	Plug-in card (Equipment intended for a variety of host systems)			
Intended use		Condition of use		
X	fixed	Always at a distance more than 2 m from all people		
	mobile	Always at a distance more than 20 cm from all people		
	portable	May operate at a distance closer than 20 cm to human body		
Assigned frequency range		1) 5150 – 5825 MHz; 2) 2400 – 2483.5 MHz		
Operating frequency range		1) 5015 – 5250 MHz, 5250 – 5350 MHz, 5725 - 5825 MHz; 2) 2412 -2462 MHz		
Maximum rated output power		At transmitter 50 Ω RF output connector	29.7 dBm (802.11 b/g)	
		Effective radiated power (for equipment with no RF connector)		
Is transmitter output power variable?		No		
		X	Yes	continuous variable
				stepped variable with stepsize
Antenna connection				
unique coupling	X	standard connector	integral	
			with temporary RF connector	
			X without temporary RF connector	
Antenna/s technical characteristics				
Type	Manufacturer	Model number	Gain	
ultra-broadband antenna	HUBER+SUHNER	SWA 0859/360/4/10/V SENCITY-ART	7 dBi	
Type of modulation		16-QAM, QPSK, BPSK		
Type of multiplexing		TDMA		
Transmitter power source				
	Battery	Nominal rated voltage	Battery type	
X	DC	Nominal rated voltage	48 V	
	AC mains	Nominal rated voltage	Frequency	

Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

7 Transmitter tests according to 47CFR part 15 subpart C requirements

7.1 Minimum 6 dB bandwidth

7.1.1 General

This test was performed to measure 6 dB bandwidth of the EUT carrier frequency. Specification test limits are given in Table 7.1.1.

Table 7.1.1 The 6 dB bandwidth limits

Assigned frequency, MHz	Modulation envelope reference points*, dBc	Minimum bandwidth, kHz
902.0 – 928.0	6.0	500.0
2400.0 – 2483.5		
5725.0 – 5850.0		

* - Modulation envelope reference points provided in terms of attenuation below the peak of modulated carrier.

7.1.2 Test procedure

7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.

7.1.2.2 The EUT was set to transmit modulated carrier.

7.1.2.3 The transmitter minimum 6 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in Table 7.1.2, Table 7.1.3 and associated plots.

Figure 7.1.1 The 6 dB bandwidth test setup



Test specification:	Section 15.247(a)2, 6 dB bandwidth			
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2			
Test mode:	Compliance	Verdict:		PASS
Date & Time:	5/25/2006 11:31:06 AM			
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC	
Remarks:				

Table 7.1.2 The 6 dB bandwidth test results

ASSIGNED FREQUENCY BAND: 2400 – 2483.5 MHz
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 100 kHz
 VIDEO BANDWIDTH: 300 kHz
 MODULATION ENVELOPE REFERENCE POINTS: -6.0 dBc
 MODULATION: DSSS: (DBPSK) @ 1 Mbps, (CCK) @ 11 Mbps
 OFDM: BPSK @ 6 Mbps, 64-QAM @ 54 Mbps
 MODULATING SIGNAL: PRBS
 INPUTS: 802.11 b/g + 802.11 a

Carrier frequency, MHz	6 dB bandwidth, kHz	Limit, kHz	Margin, kHz	Verdict
DSSS, 1 Mbps				
2412	10012.5	500	9512.5	Pass
2437	10087.5	500	9587.5	Pass
2462	10087.5	500	9587.5	Pass
DSSS, 11 Mbps				
2412	10500.0	500	10000.0	Pass
2437	10500.0	500	10000.0	Pass
2462	10537.5	500	10037.5	Pass
OFDM, 6 Mbps				
2412	15062.5	500	14562.5	Pass
2437	15125.0	500	14625.0	Pass
2462	10687.5	500	10187.5	Pass
OFDM, 54 Mbps				
2412	16250.0	500	15750.0	Pass
2437	16312.5	500	15812.5	Pass
2462	16125.0	500	15625.0	Pass

INPUTS: 802.11 b/g + 802.11 a + licensed

Carrier frequency, MHz	6 dB bandwidth, kHz	Limit, kHz	Margin, kHz	Verdict
DSSS, 1 Mbps				
2412	10050.0	500	9550.0	Pass
2437	10050.0	500	9550.0	Pass
2462	9562.5	500	9062.5	Pass
DSSS, 11 Mbps				
2412	10050.0	500	9550.0	Pass
2437	10425.0	500	9925.0	Pass
2462	9300.0	500	8800.0	Pass
OFDM, 6 Mbps				
2412	15000.0	500	14500.0	Pass
2437	15062.5	500	14562.5	Pass
2462	11500.0	500	11000.0	Pass
OFDM, 54 Mbps				
2412	16375.0	500	15875.0	Pass
2437	16375.0	500	15875.0	Pass
2462	15750.0	500	15250.0	Pass

Reference numbers of test equipment used

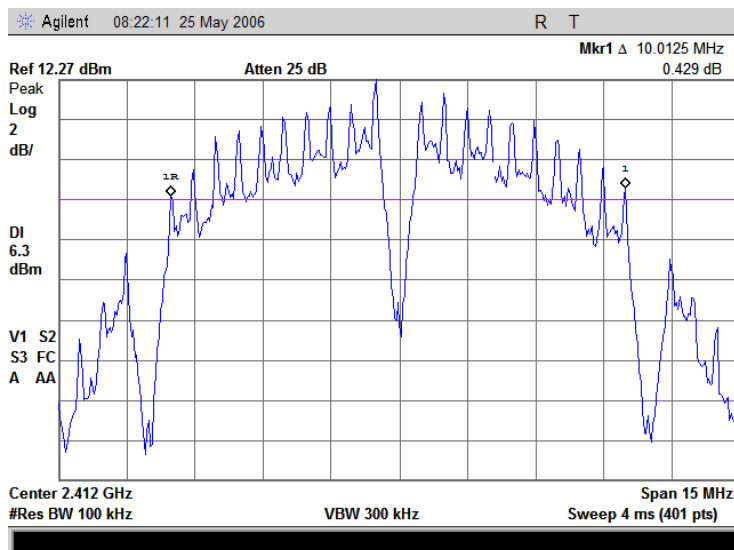
HL 1650	HL 2780	HL 2867						
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Full description is given in Appendix A.

Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

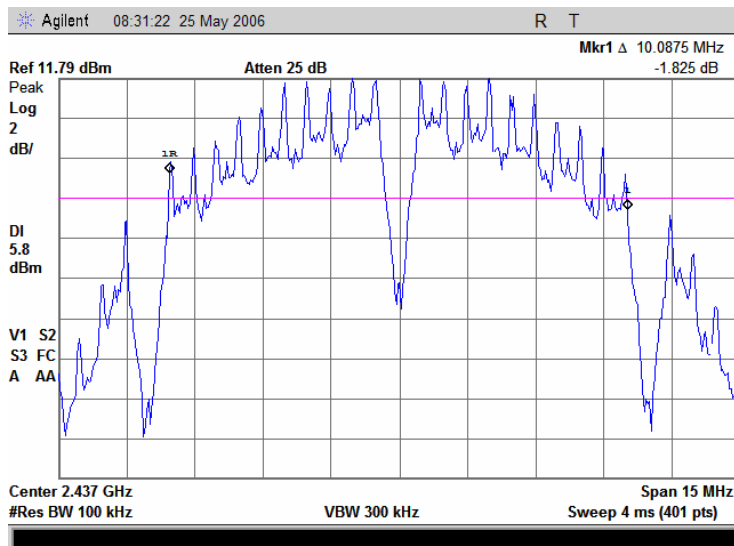
Plot 7.1.1 The 6 dB bandwidth test result at low frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.2 The 6 dB bandwidth test result at mid frequency, DSSS, 1 Mbps

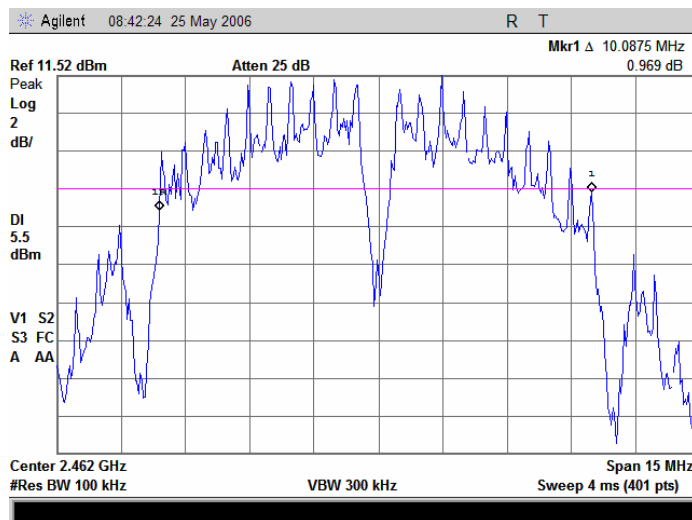
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

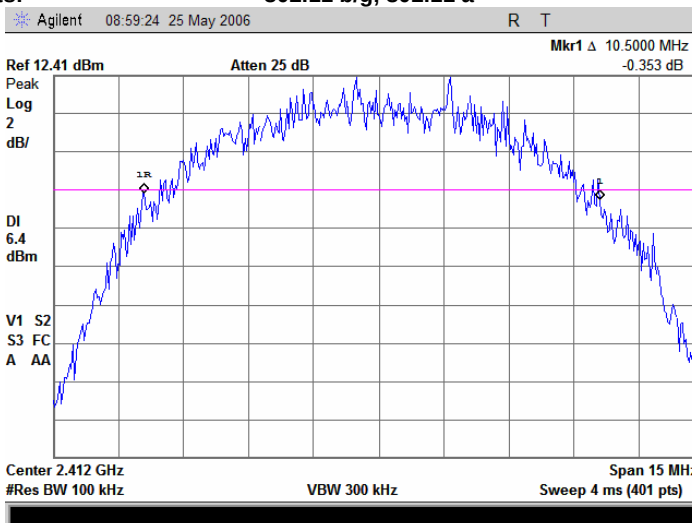
Plot 7.1.3 The 6 dB bandwidth test result at high frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.4 The 6 dB bandwidth test result at low frequency, DSSS, 11 Mbps

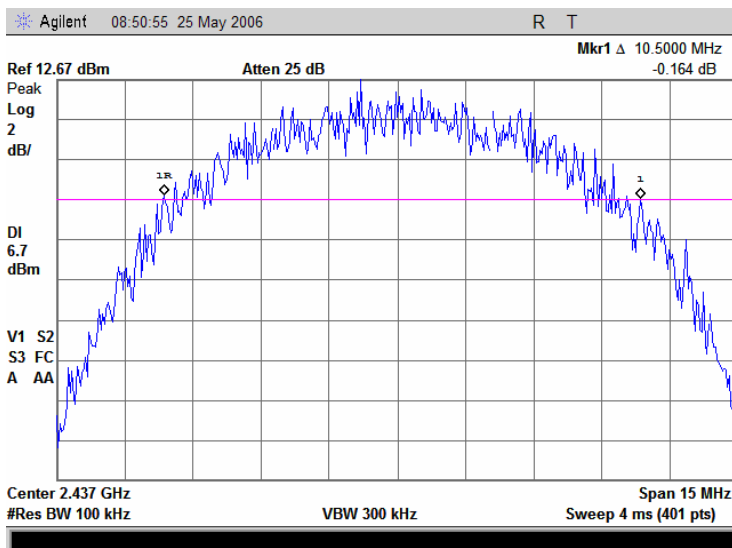
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

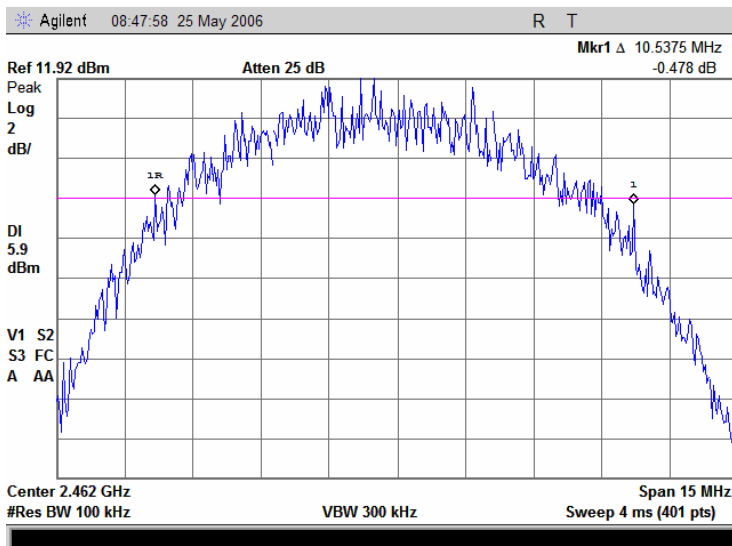
Plot 7.1.5 The 6 dB bandwidth test result at mid frequency, DSSS, 11 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.6 The 6 dB bandwidth test result at high frequency, DSSS, 11 Mbps

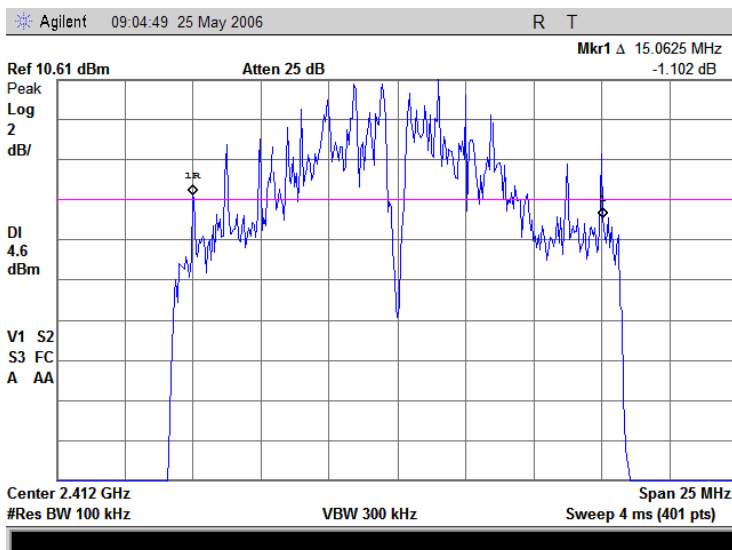
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

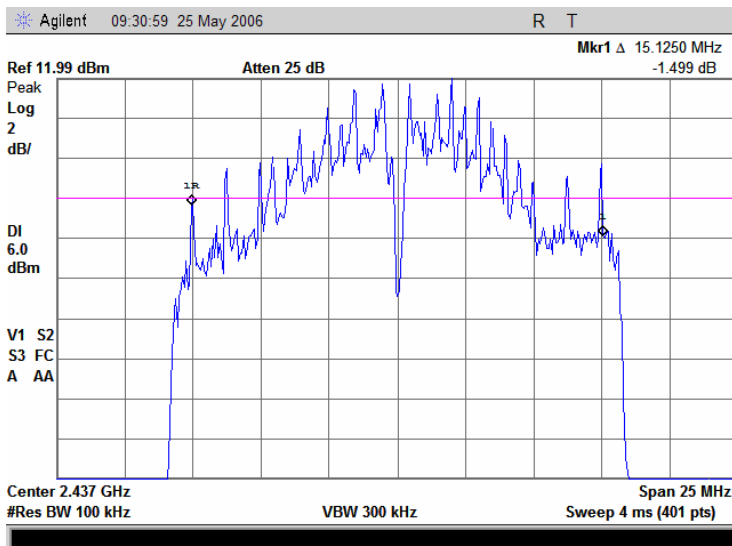
Plot 7.1.7 The 6 dB bandwidth test result at low frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.8 The 6 dB bandwidth test result at mid frequency, OFDM, 6 Mbps

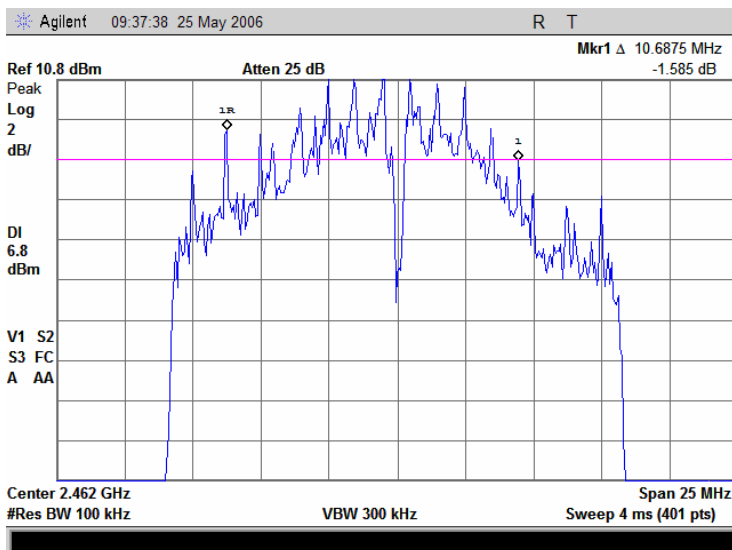
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

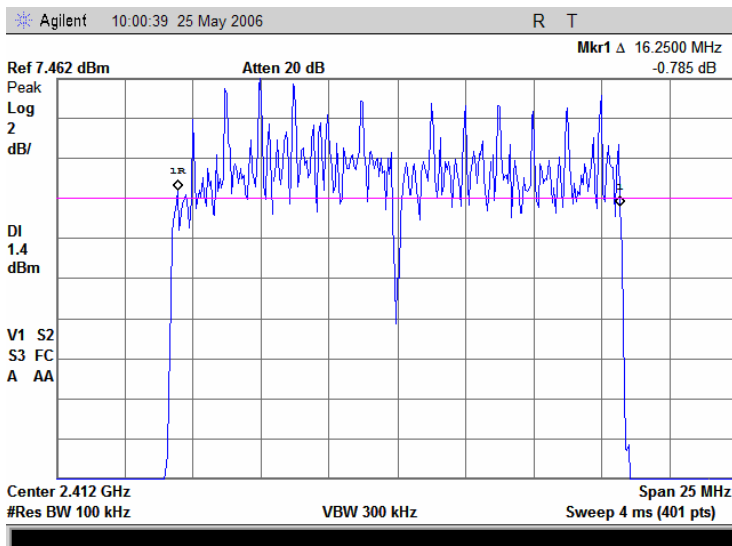
Plot 7.1.9 The 6 dB bandwidth test result at high frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.10 The 6 dB bandwidth test result at low frequency, OFDM, 54 Mbps

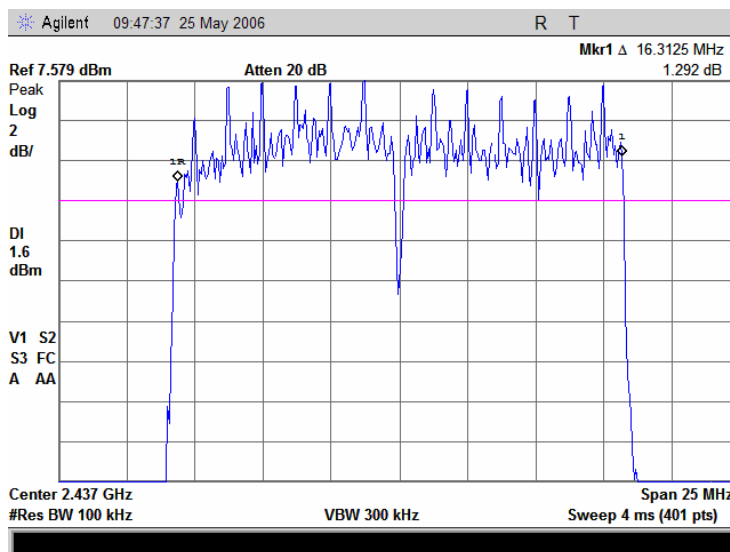
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

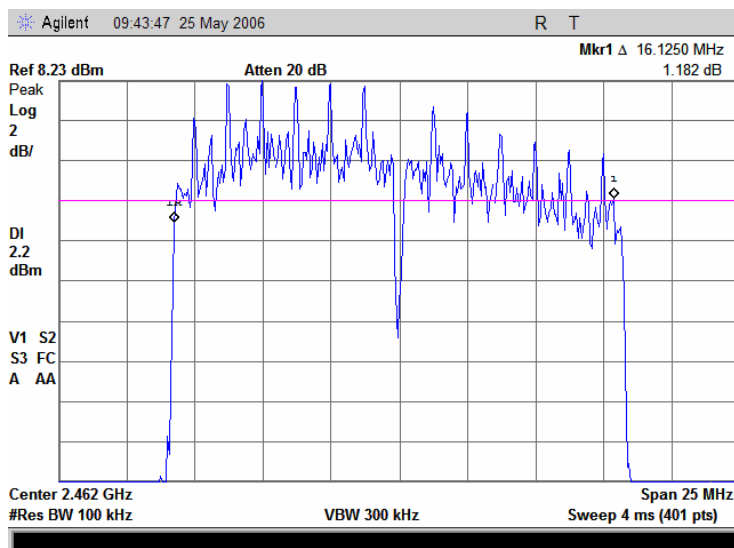
Plot 7.1.11 The 6 dB bandwidth test result at mid frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g, 802.11 a



Plot 7.1.12 The 6 dB bandwidth test result at high frequency, OFDM, 54 Mbps

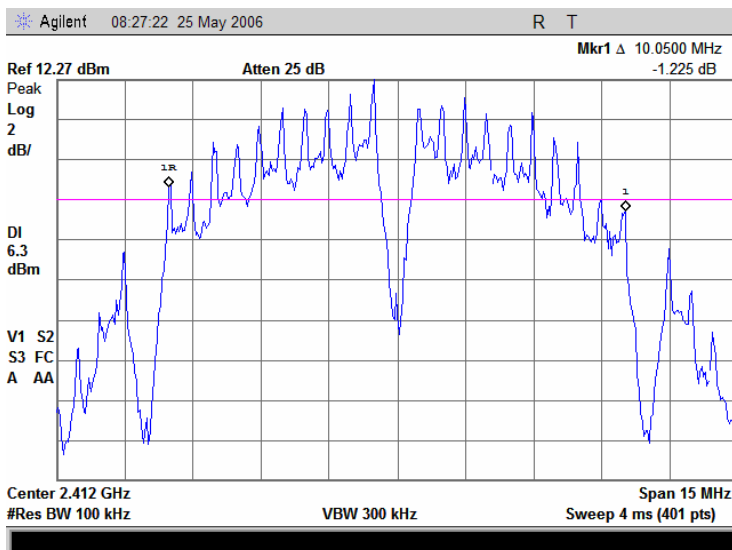
Inputs: 802.11 b/g, 802.11 a



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

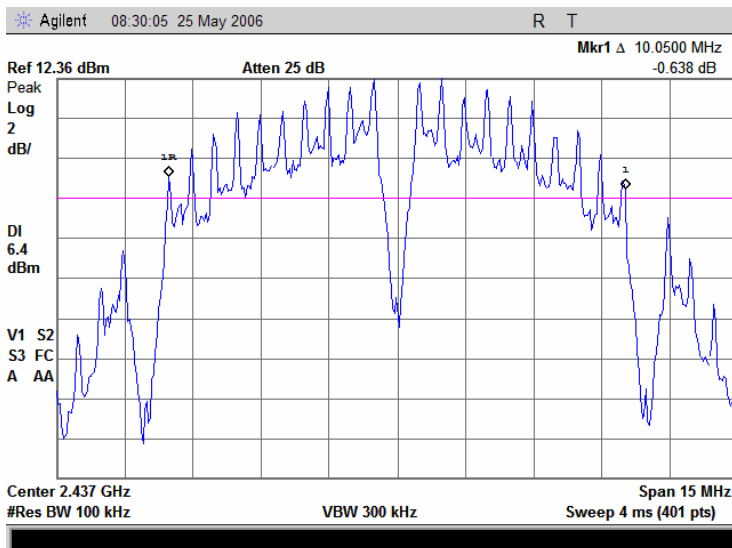
Plot 7.1.13 The 6 dB bandwidth test result at low frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed



Plot 7.1.14 The 6 dB bandwidth test result at mid frequency, DSSS, 1 Mbps

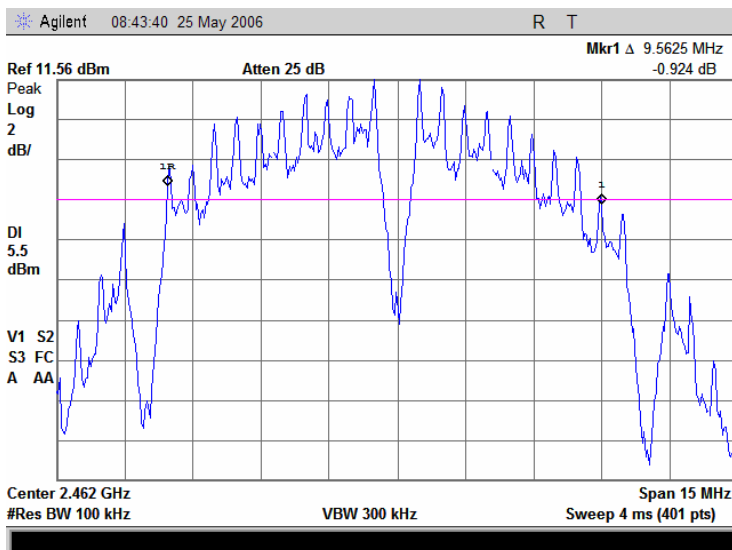
Inputs: 802.11 b/g, 802.11 a, licensed



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

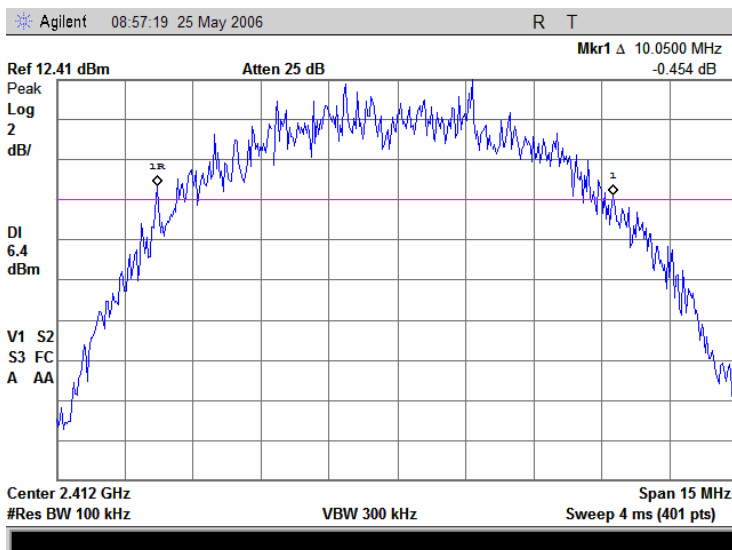
Plot 7.1.15 The 6 dB bandwidth test result at high frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed



Plot 7.1.16 The 6 dB bandwidth test result at low frequency, DSSS, 11 Mbps

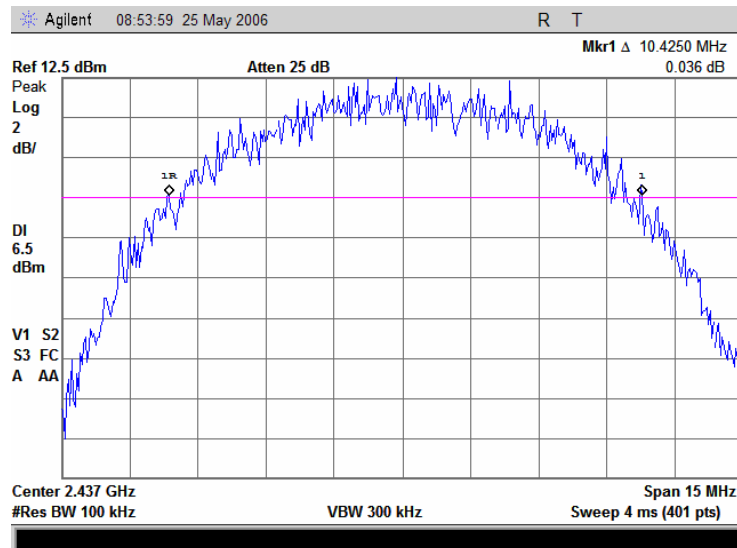
Inputs: 802.11 b/g, 802.11 a, licensed



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

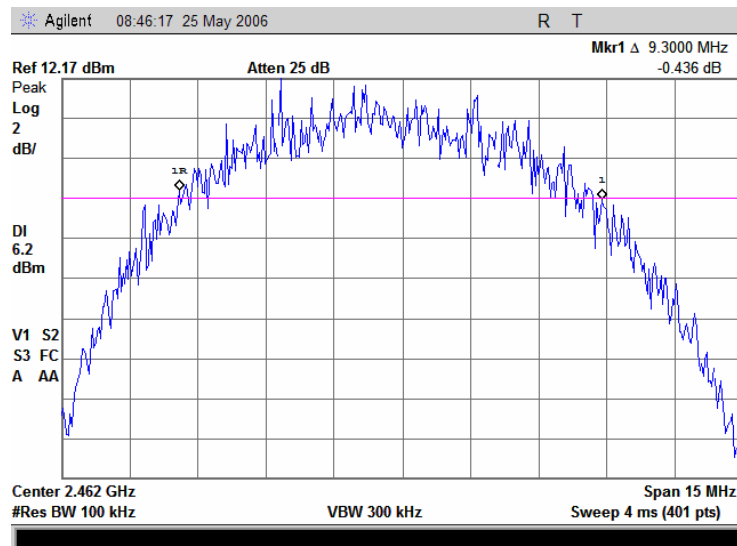
Plot 7.1.17 The 6 dB bandwidth test result at mid frequency, DSSS, 11 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed



Plot 7.1.18 The 6 dB bandwidth test result at high frequency, DSSS, 11 Mbps

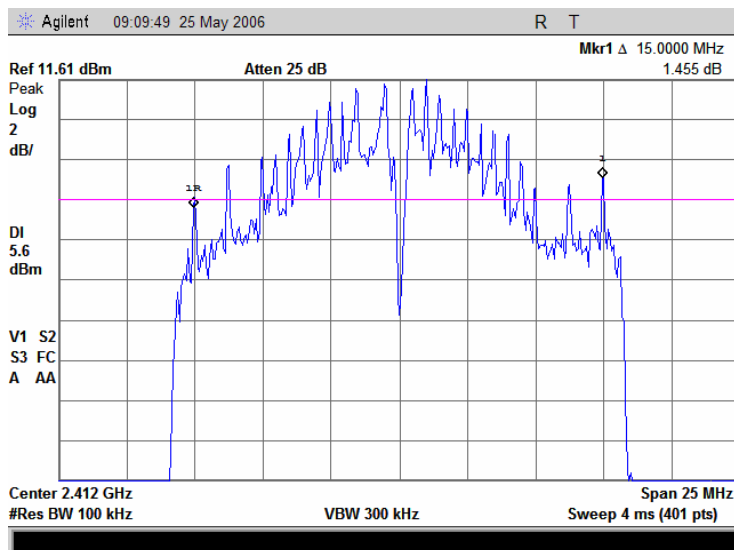
Inputs: 802.11 b/g, 802.11 a, licensed



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

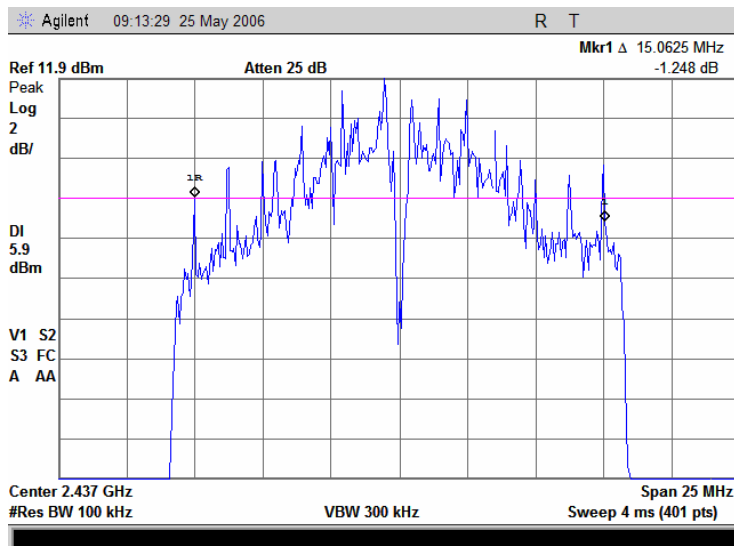
Plot 7.1.19 The 6 dB bandwidth test result at low frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed



Plot 7.1.20 The 6 dB bandwidth test result at mid frequency, OFDM, 6 Mbps

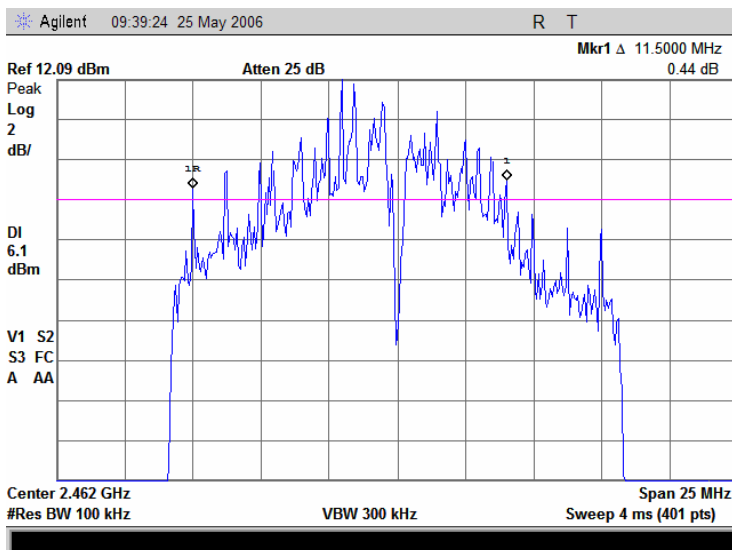
Inputs: 802.11 b/g, 802.11 a, licensed



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

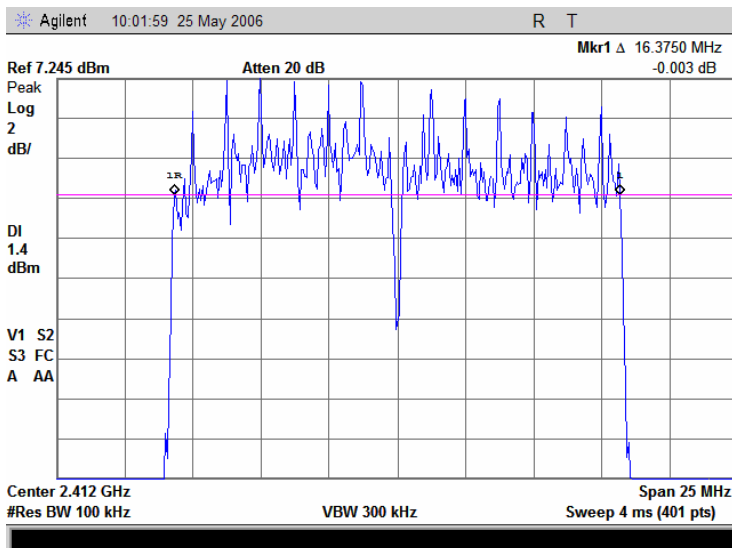
Plot 7.1.21 The 6 dB bandwidth test result at high frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed



Plot 7.1.22 The 6 dB bandwidth test result at low frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g, 802.11 a, licensed

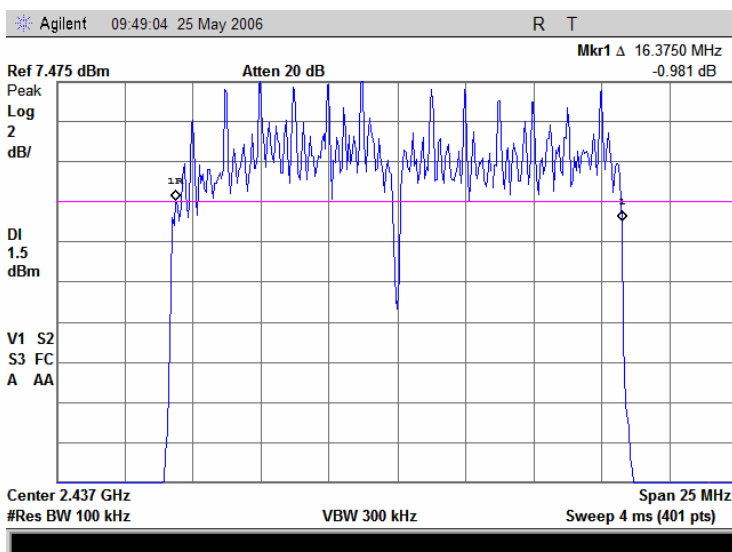


Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 11:31:06 AM		
Temperature: 22 °C	Air Pressure: 1010 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks:			

Plot 7.1.23 The 6 dB bandwidth test result at mid frequency, OFDM, 54 Mbps

Inputs:

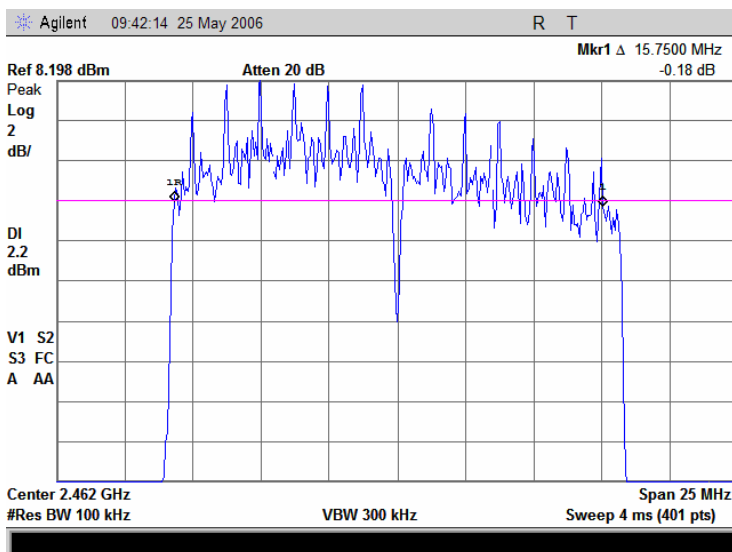
802.11 b/g, 802.11 a, licensed



Plot 7.1.24 The 6 dB bandwidth test result at high frequency, OFDM, 54 Mbps

Inputs:

802.11 b/g, 802.11 a, licensed



Test specification:		Section 15.247(a)2, 6 dB bandwidth	
Test procedure:		FR Vol.62, page 26243, Section 15.247(a)2	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:42:19 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Table 7.1.3 The 6 dB bandwidth test results

ASSIGNED FREQUENCY BAND: 2400 – 2483.5 MHz
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 100 kHz
 VIDEO BANDWIDTH: 300 kHz
 MODULATION ENVELOPE REFERENCE POINTS: -6.0 dBc
 MODULATION: DSSS: (DBPSK) @ 1 Mbps, (CCK) @ 11 Mbps
 OFDM: BPSK @ 6 Mbps, 64-QAM @ 54 Mbps
 MODULATING SIGNAL: PRBS
 INPUTS: 802.11 b/g

Carrier frequency, MHz	6 dB bandwidth, kHz	Limit, kHz	Margin, kHz	Verdict
DSSS, 1 Mbps				
2412	9600.0	500	9100.0	Pass
2437	10087.5	500	9587.5	Pass
2462	9637.5	500	9137.5	Pass
DSSS, 11 Mbps				
2412	10050.0	500	9550.0	Pass
2437	9412.5	500	8912.5	Pass
2462	9450.0	500	8950.0	Pass
OFDM, 6 Mbps				
2412	16437.5	500	15937.5	Pass
2437	16500.0	500	16000.0	Pass
2462	16375.0	500	15875.0	Pass
OFDM, 54 Mbps				
2412	15812.5	500	15312.5	Pass
2437	16500.0	500	16000.0	Pass
2462	16000.0	500	15500.0	Pass

Reference numbers of test equipment used

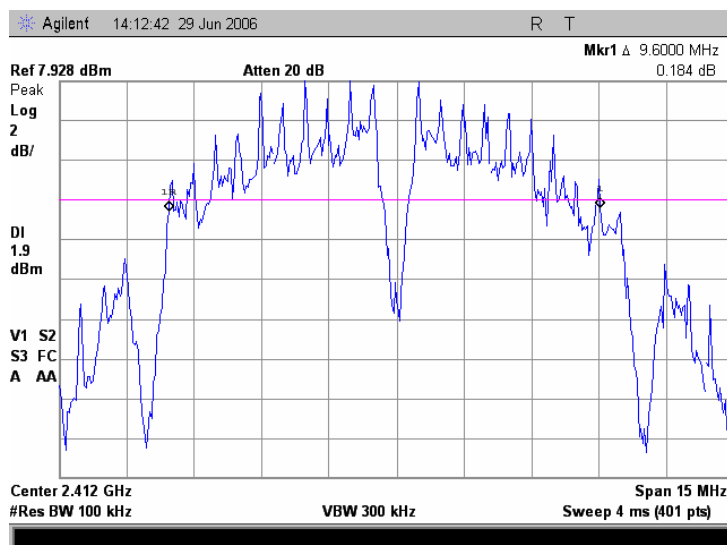
HL 1650	HL 2524	HL 2867	HL 2909					
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Full description is given in Appendix A.

Test specification:		Section 15.247(a)2, 6 dB bandwidth	
Test procedure:		FR Vol.62, page 26243, Section 15.247(a)2	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 6:42:19 PM	
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

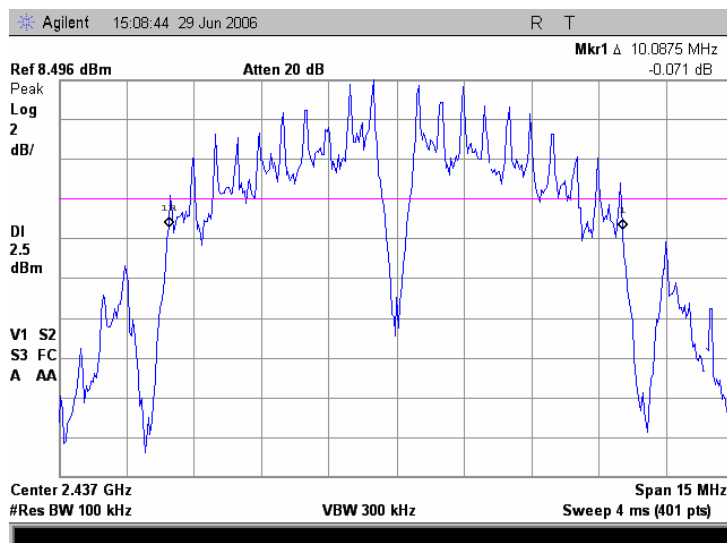
Plot 7.1.25 The 6 dB bandwidth test result at low frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g



Plot 7.1.26 The 6 dB bandwidth test result at mid frequency, DSSS, 1 Mbps

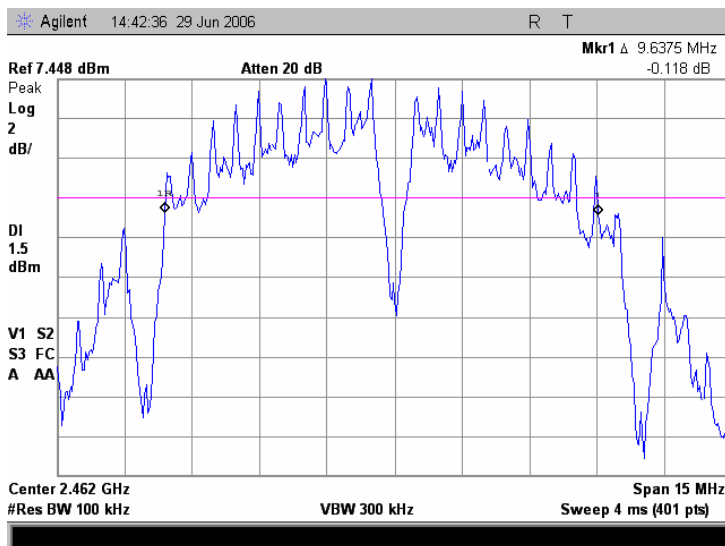
Inputs: 802.11 b/g



Test specification:		Section 15.247(a)2, 6 dB bandwidth	
Test procedure:		FR Vol.62, page 26243, Section 15.247(a)2	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 6:42:19 PM	
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

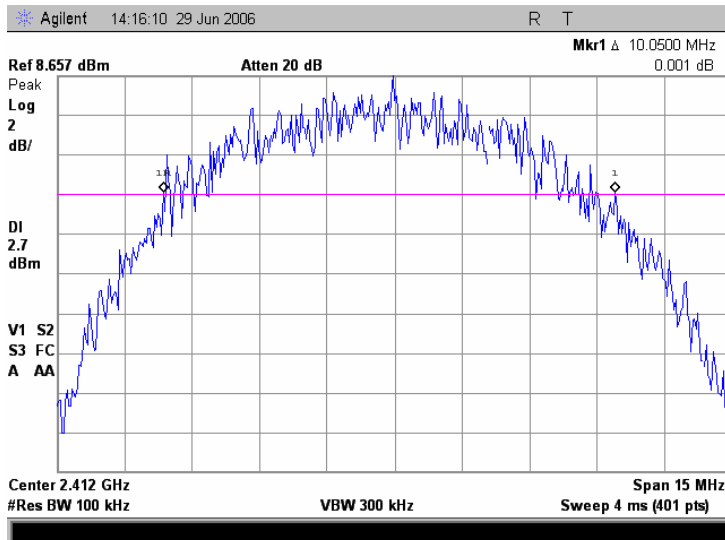
Plot 7.1.27 The 6 dB bandwidth test result at high frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g



Plot 7.1.28 The 6 dB bandwidth test result at low frequency, DSSS, 11 Mbps

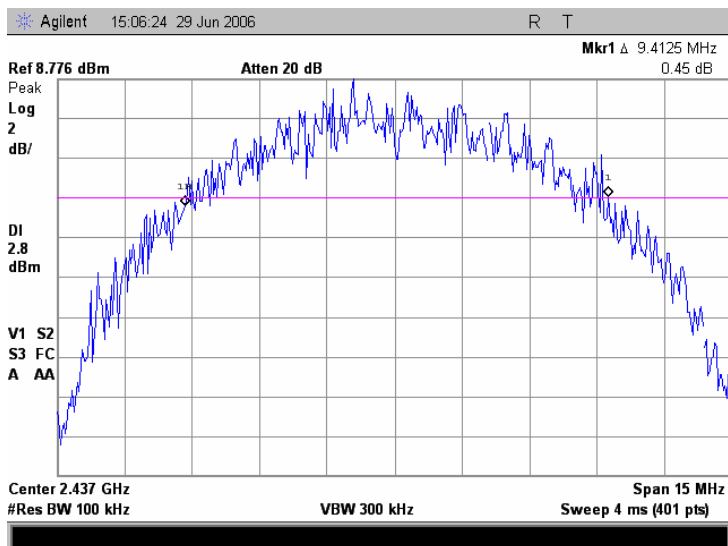
Inputs: 802.11 b/g



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:42:19 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

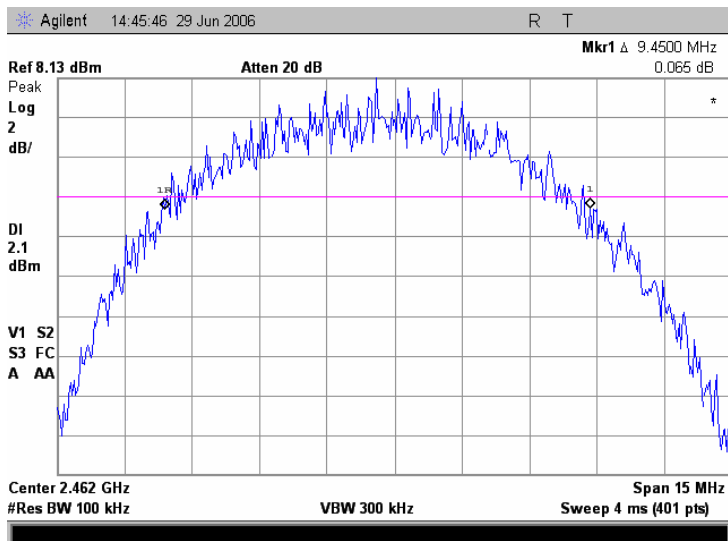
Plot 7.1.29 The 6 dB bandwidth test result at mid frequency, DSSS, 11 Mbps

Inputs: 802.11 b/g



Plot 7.1.30 The 6 dB bandwidth test result at high frequency, DSSS, 11 Mbps

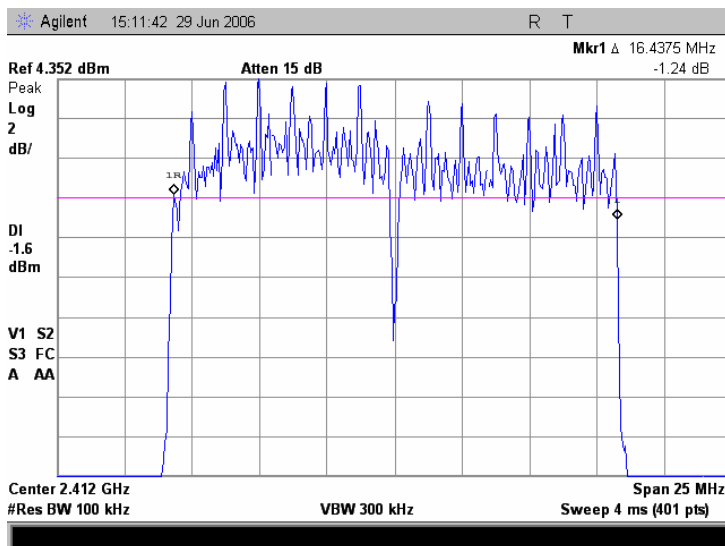
Inputs: 802.11 b/g



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:42:19 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

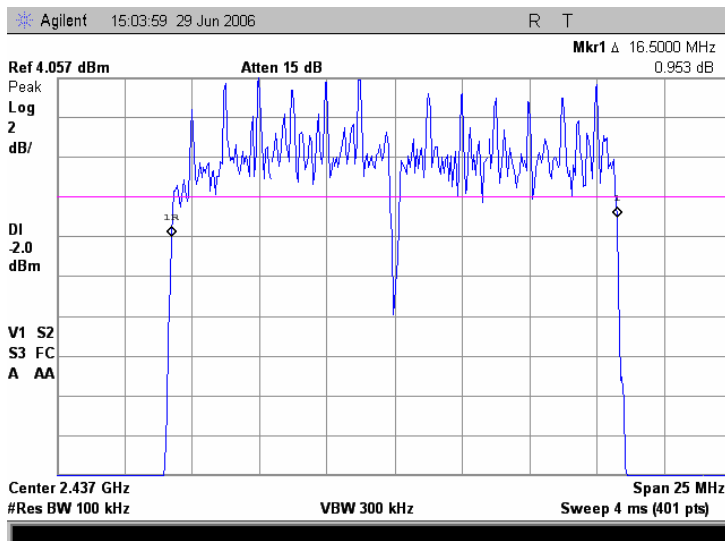
Plot 7.1.31 The 6 dB bandwidth test result at low frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g



Plot 7.1.32 The 6 dB bandwidth test result at mid frequency, OFDM, 6 Mbps

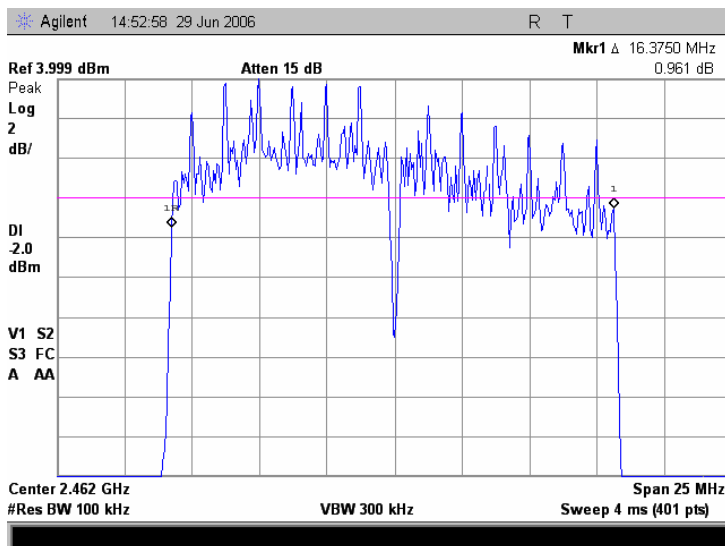
Inputs: 802.11 b/g



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:42:19 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

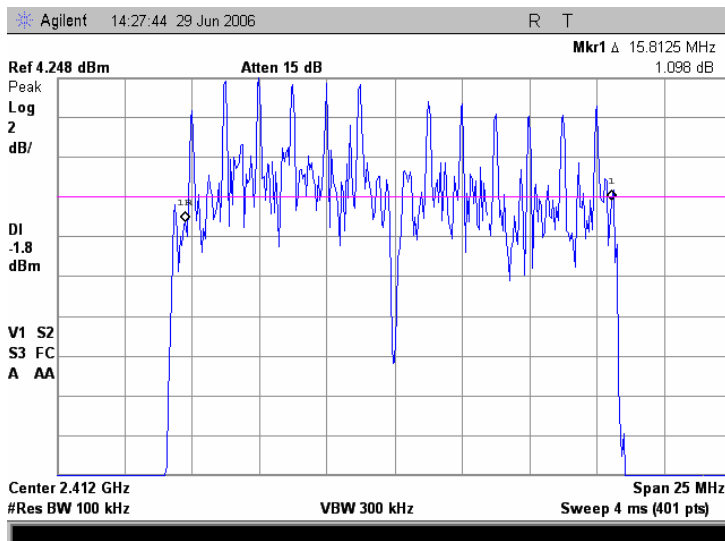
Plot 7.1.33 The 6 dB bandwidth test result at high frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g



Plot 7.1.34 The 6 dB bandwidth test result at low frequency, OFDM, 54 Mbps

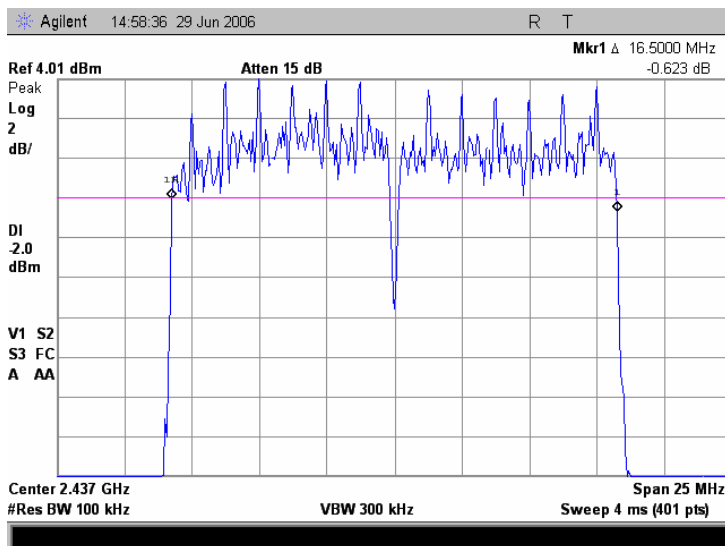
Inputs: 802.11 b/g



Test specification:	Section 15.247(a)2, 6 dB bandwidth		
Test procedure:	FR Vol.62, page 26243, Section 15.247(a)2		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:42:19 PM		
Temperature: 24 °C	Air Pressure: 1015 hPa	Relative Humidity: 59 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

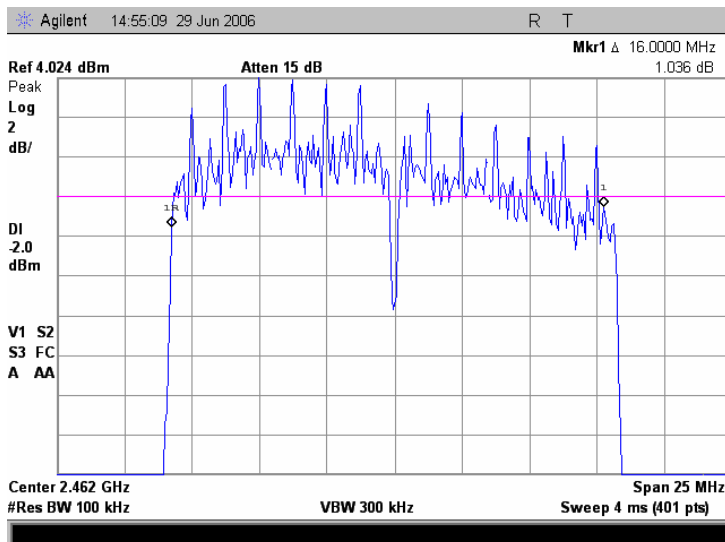
Plot 7.1.35 The 6 dB bandwidth test result at mid frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g



Plot 7.1.36 The 6 dB bandwidth test result at high frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g



Test specification:		Section 15.247(b)3, Peak output power	
Test procedure:		FR Vol.62, page 26243, Section 15.247(b)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

7.2 Peak output power

7.2.1 General

This test was performed to measure the maximum peak output power at the transmitter RF antenna connector. Specification test limits are given in Table 7.2.1.

Table 7.2.1 Peak output power limits

Assigned frequency range, MHz	Maximum antenna gain, dBi	Peak output power*	
		W	dBm
902.0 – 928.0	6.0	1.0	30.0
2400.0 – 2483.5			
5725.0 – 5850.0			

*- If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power limit shall be reduced below the stated value as follows:

- by 1 dB for every 3 dB that the directional gain of antenna exceeds 6 dBi for fixed point-to-point transmitters operate in 2400-2483.5 MHz band;
- without any corresponding reduction for fixed point-to-point transmitters operate in 5725-5850 MHz band;
- by the amount in dB that the directional gain of antenna exceeds 6 dBi for the rest of transmitters.

7.2.2 Test procedure

- 7.2.2.1** The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.
- 7.2.2.2** The EUT was adjusted to produce maximum available for end user RF output power.
- 7.2.2.3** The resolution bandwidth of spectrum analyzer was set wider than 6 dB bandwidth of the EUT and the maximum peak output power was measured as provided in Table 7.2.2, Table 7.2.3 and associated plots.

Figure 7.2.1 Peak output power test setup



Photograph 7.2.1 Peak output power test setup



Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Table 7.2.2 Peak output power test results

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz
MODULATION: DBPSK, CCK, BPSK, 64QAM
MODULATING SIGNAL: PRBS
BIT RATE: 1, 11, 6, 54 Mbps
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
DETECTOR USED: Peak
EUT 6 dB BANDWIDTH: 12.5 MHz (DSSS) / 16.3 MHz (OFDM)
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: 300 kHz
INPUTS: 802.11 b/g + 802.11 a

Carrier frequency, MHz	Spectrum analyzer reading, dBm	External attenuation, dB	Cable loss, dB	Peak output power, dBm	Limit*, dBm	Margin**, dB	Verdict
DSSS, 1 Mbps							
2412	25.18	Included	Included	25.18	29.0	-3.82	Pass
2437	24.66	Included	Included	24.66	29.0	-4.34	Pass
2462	23.94	Included	Included	23.94	29.0	-5.06	Pass
DSSS, 11 Mbps							
2412	26.16	Included	Included	26.16	29.0	-2.84	Pass
2437	26.35	Included	Included	26.35	29.0	-2.65	Pass
2462	25.22	Included	Included	25.22	29.0	-3.78	Pass
OFDM, 6 Mbps							
2412	24.34	Included	Included	24.34	29.0	-4.66	Pass
2437	24.26	Included	Included	24.26	29.0	-4.74	Pass
2462	23.82	Included	Included	23.82	29.0	-5.18	Pass
OFDM, 54 Mbps							
2412	22.24	Included	Included	22.24	29.0	-6.76	Pass
2437	22.62	Included	Included	22.62	29.0	-6.38	Pass
2462	21.86	Included	Included	21.86	29.0	-7.14	Pass

INPUTS: 802.11 b/g + 802.11 a + licensed

Carrier frequency, MHz	Spectrum analyzer reading, dBm	External attenuation, dB	Cable loss, dB	Peak output power, dBm	Limit*, dBm	Margin**, dB	Verdict
DSSS, 1 Mbps							
2412	24.74	Included	Included	24.74	29.0	-4.26	Pass
2437	24.56	Included	Included	24.56	29.0	-4.44	Pass
2462	23.98	Included	Included	23.98	29.0	-5.02	Pass
DSSS, 11 Mbps							
2412	26.45	Included	Included	26.45	29.0	-2.55	Pass
2437	26.19	Included	Included	26.19	29.0	-2.81	Pass
2462	25.03	Included	Included	25.03	29.0	-3.97	Pass
OFDM, 6 Mbps							
2412	24.51	Included	Included	24.51	29.0	-4.49	Pass
2437	24.02	Included	Included	24.02	29.0	-4.98	Pass
2462	23.77	Included	Included	23.77	29.0	-5.23	Pass
OFDM, 54 Mbps							
2412	22.16	Included	Included	22.16	29.0	-6.84	Pass
2437	22.45	Included	Included	22.45	29.0	-6.55	Pass
2462	21.58	Included	Included	21.58	29.0	-7.42	Pass

* - At 7 dBi antenna gain the limits of peak output power shall be reduced by 1 dB.

** - Margin = Peak output power – specification limit.

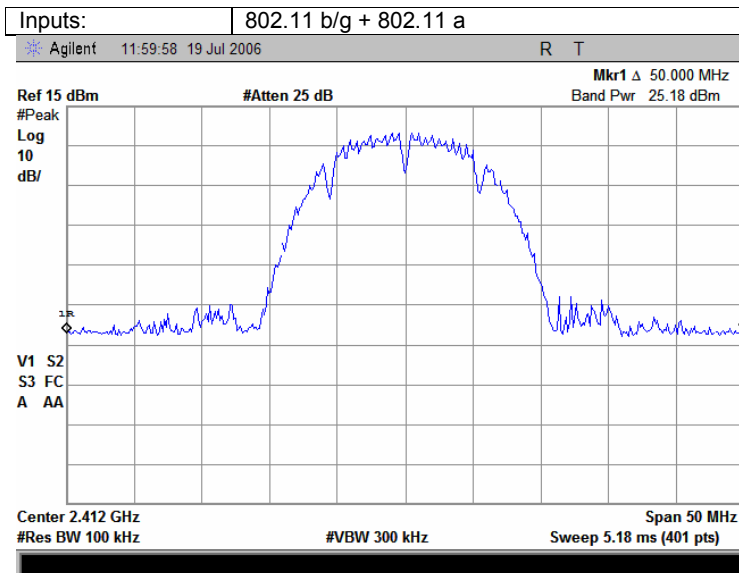
Reference numbers of test equipment used

HL 1650	HL 2254	HL 1200	HL 2869	HL 2909			
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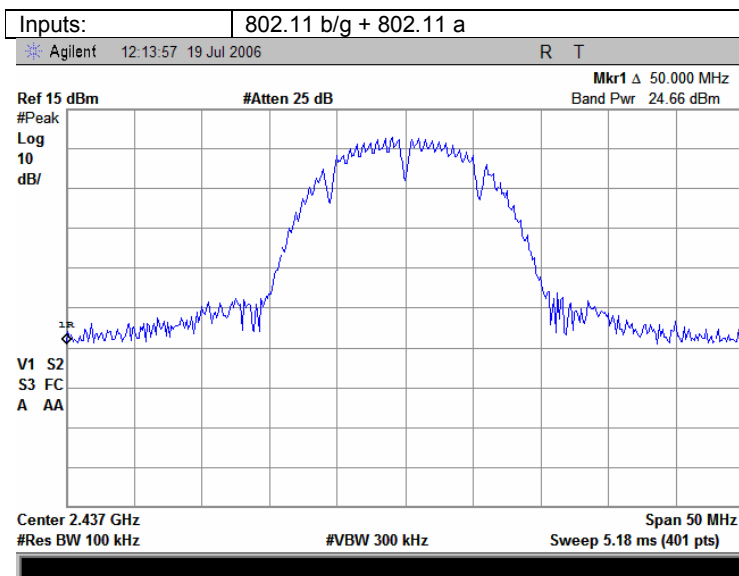
Full description is given in Appendix A.

Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.1 Peak output power at low frequency, DSSS, 1 Mbps

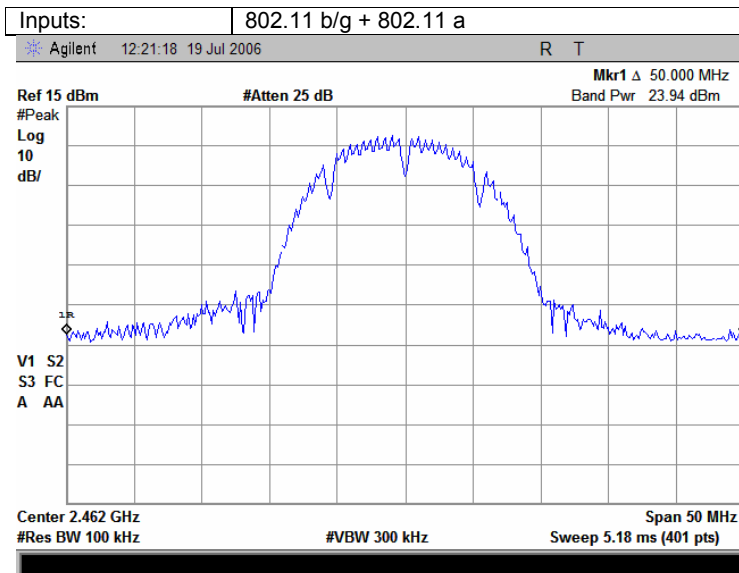


Plot 7.2.2 Peak output power at mid frequency, DSSS, 1 Mbps

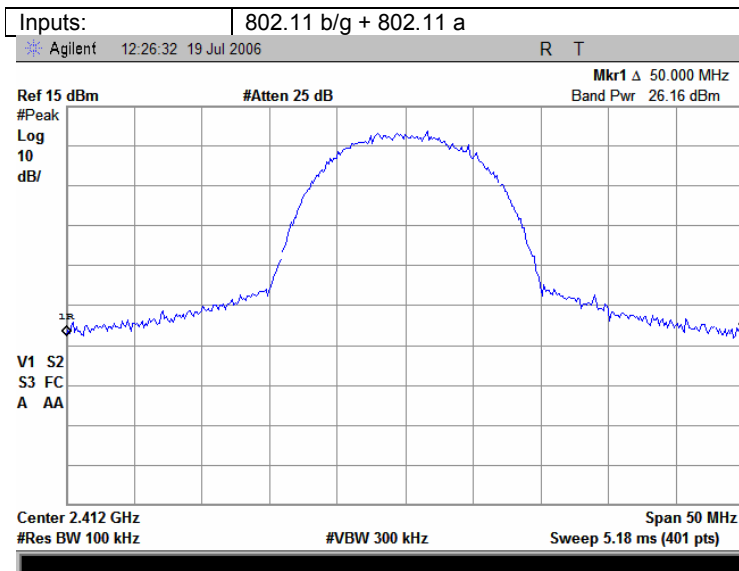


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.3 Peak output power at high frequency, DSSS, 1 Mbps

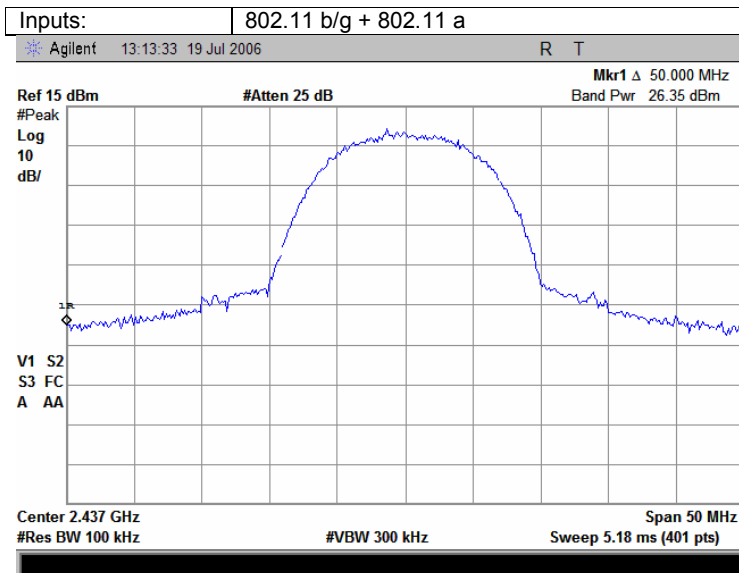


Plot 7.2.4 Peak output power at low frequency, DSSS, 11 Mbps

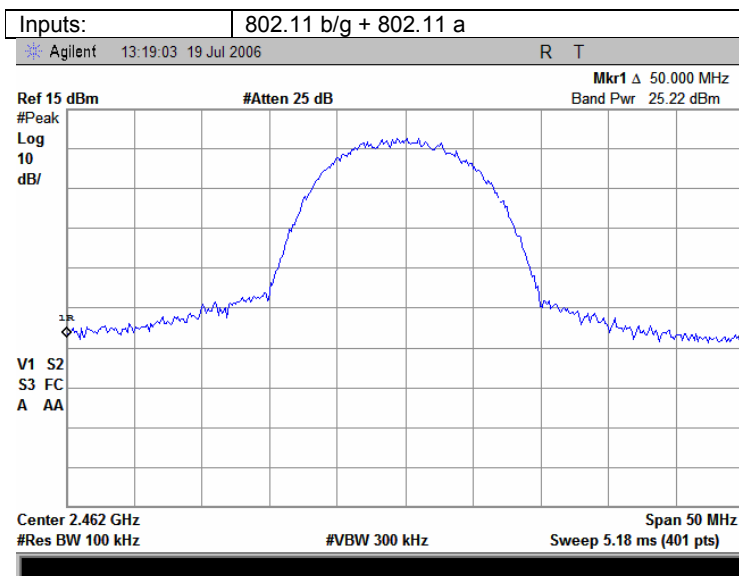


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.5 Peak output power at mid frequency, DSSS, 11 Mbps

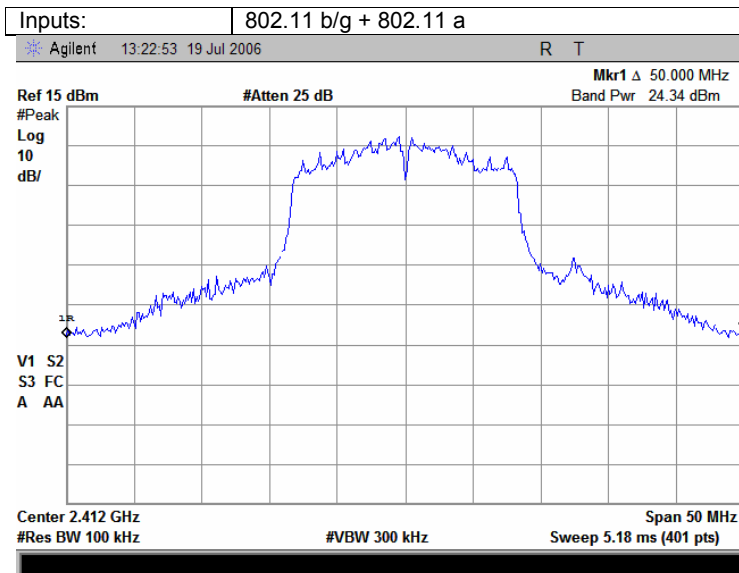


Plot 7.2.6 Peak output power at high frequency, DSSS, 11 Mbps

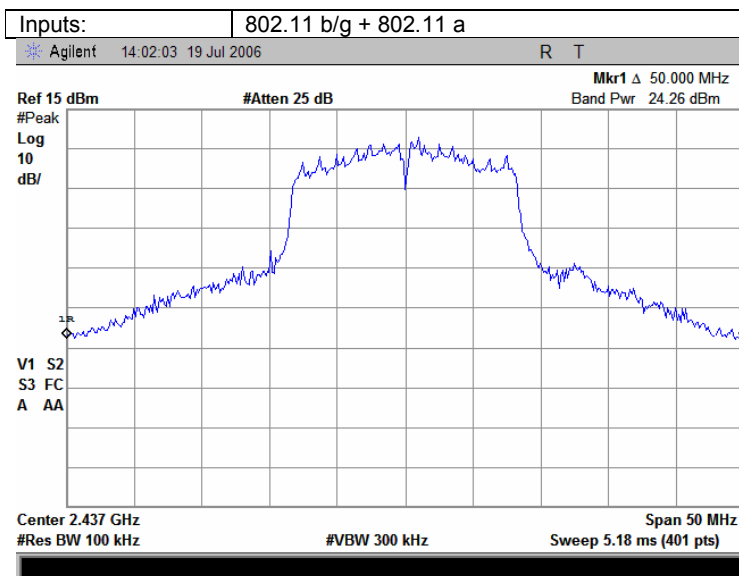


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.7 Peak output power at low frequency, OFDM, 6 Mbps

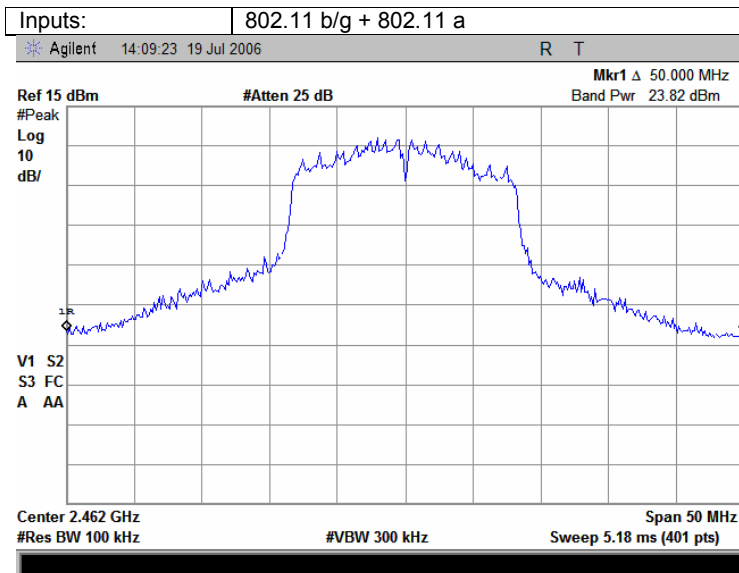


Plot 7.2.8 Peak output power at mid frequency, OFDM, 6 Mbps

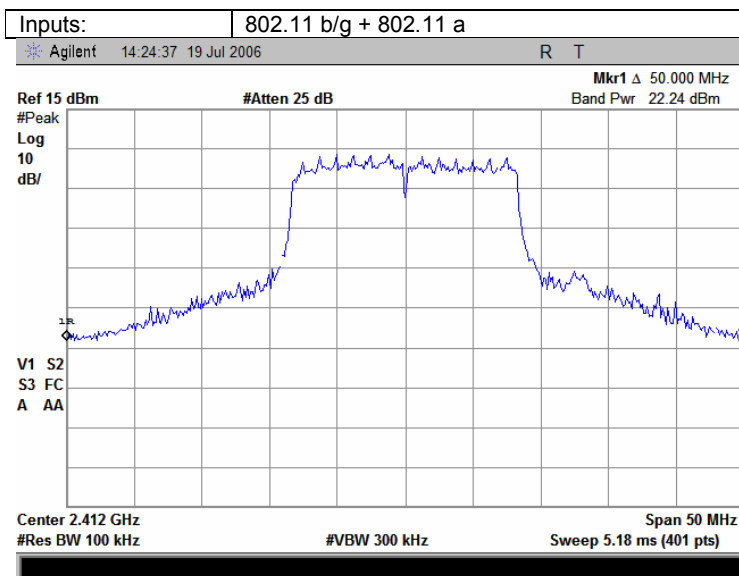


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.9 Peak output power at high frequency, OFDM, 6 Mbps

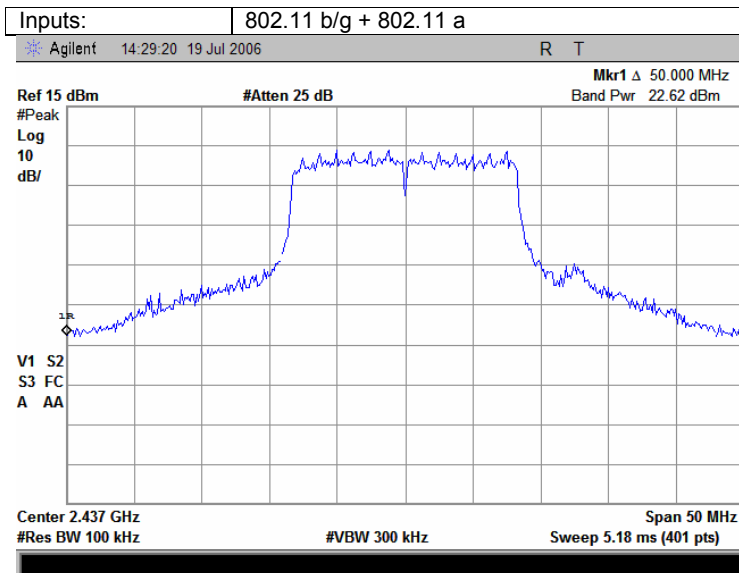


Plot 7.2.10 Peak output power at low frequency, OFDM, 54 Mbps

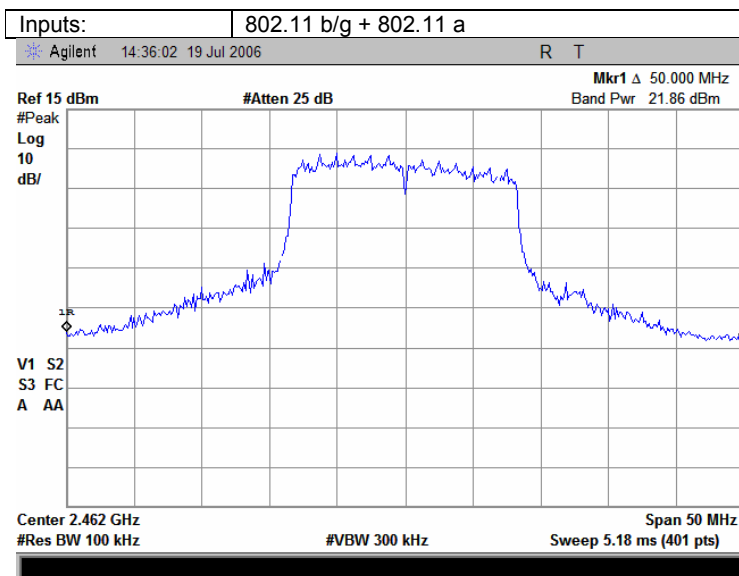


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.11 Peak output power at mid frequency, OFDM, 54 Mbps

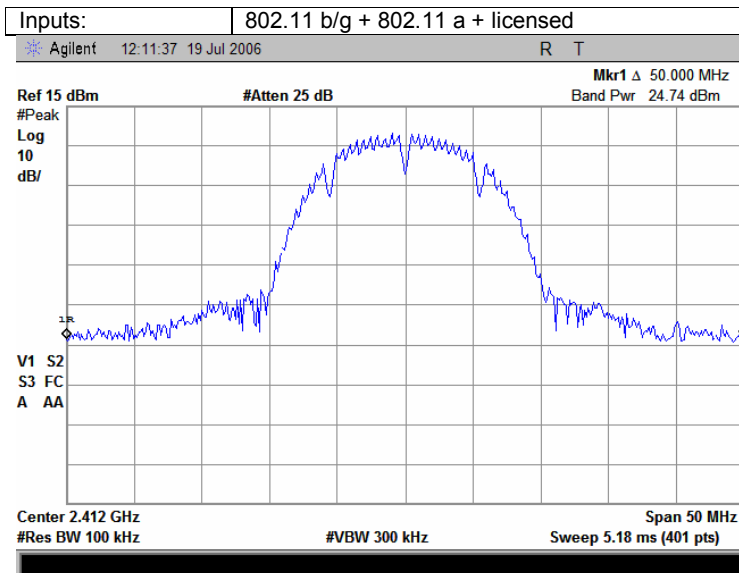


Plot 7.2.12 Peak output power at high frequency, OFDM, 54 Mbps

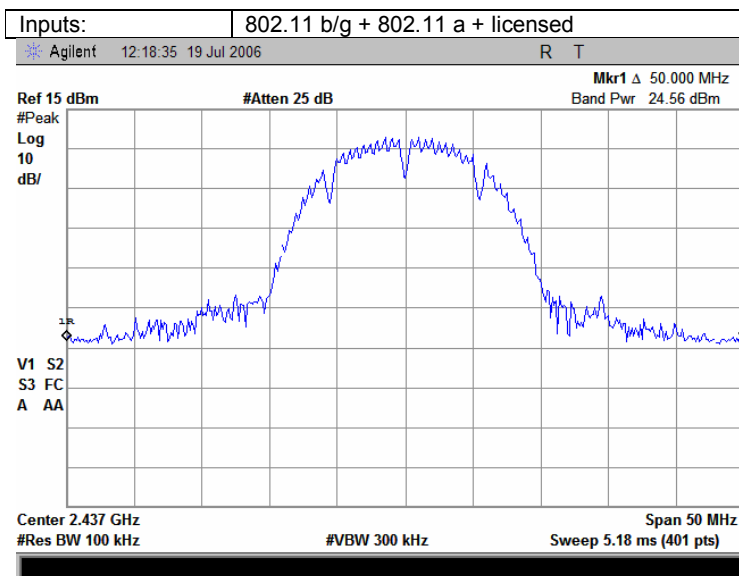


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.13 Peak output power at low frequency, DSSS, 1 Mbps

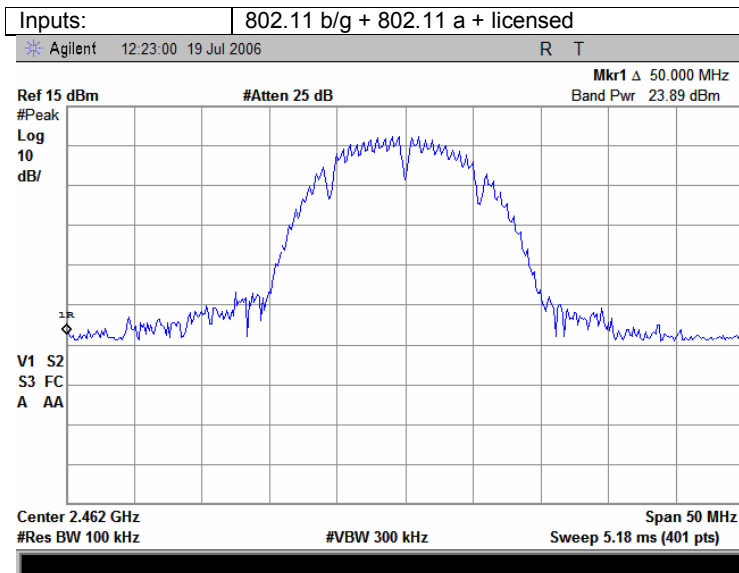


Plot 7.2.14 Peak output power at mid frequency, DSSS, 1 Mbps

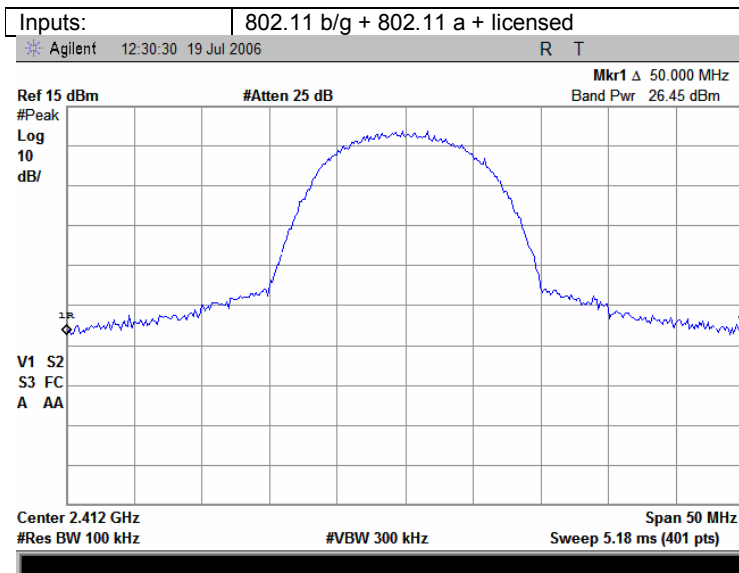


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.15 Peak output power at high frequency, DSSS, 1 Mbps

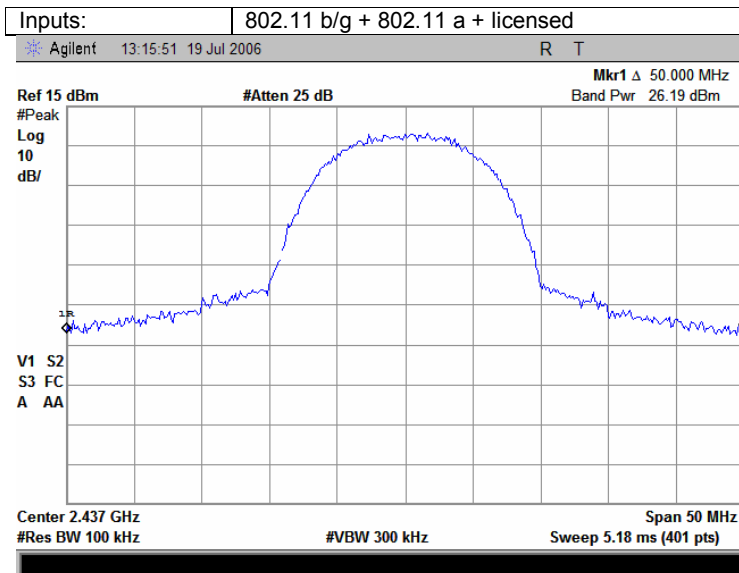


Plot 7.2.16 Peak output power at low frequency, DSSS, 11 Mbps

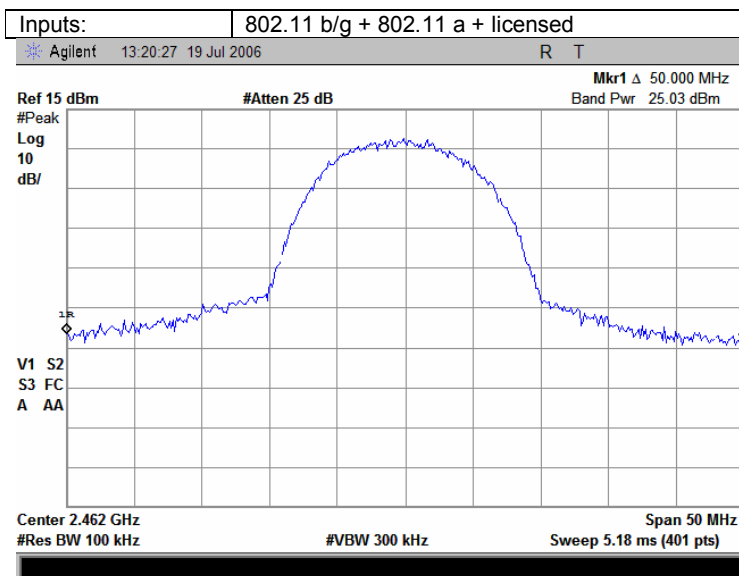


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.17 Peak output power at mid frequency, DSSS, 11 Mbps

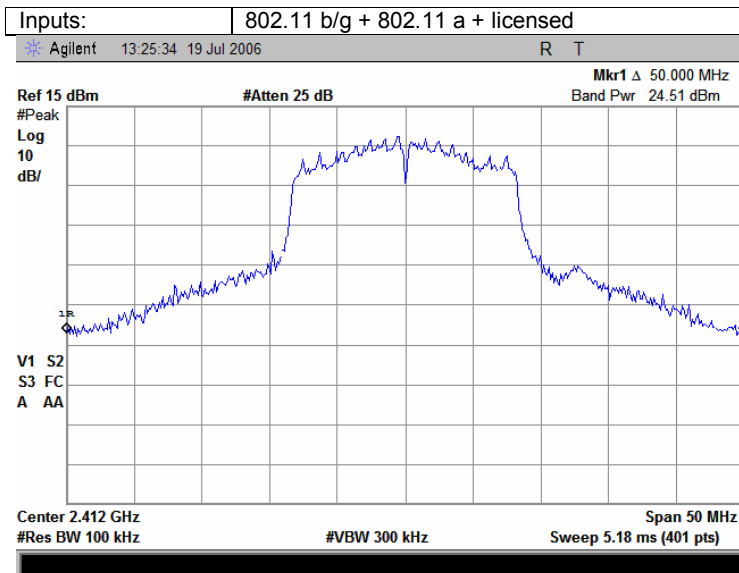


Plot 7.2.18 Peak output power at high frequency, DSSS, 11 Mbps

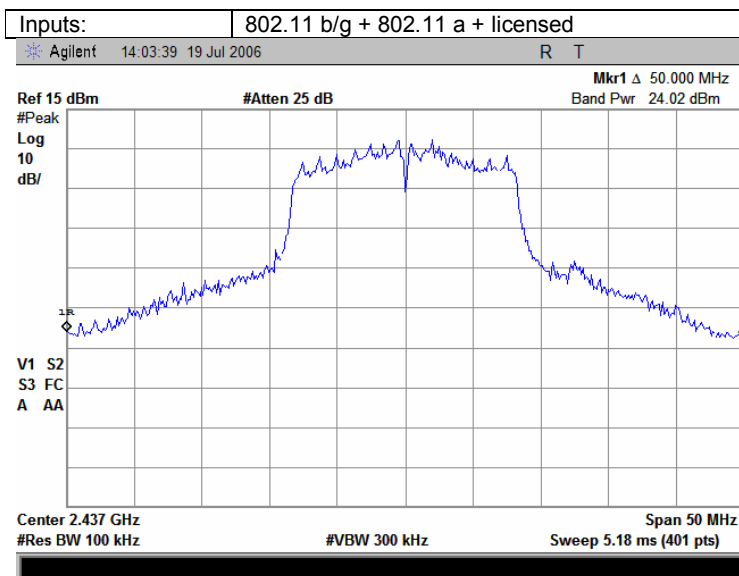


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.19 Peak output power at low frequency, OFDM, 6 Mbps

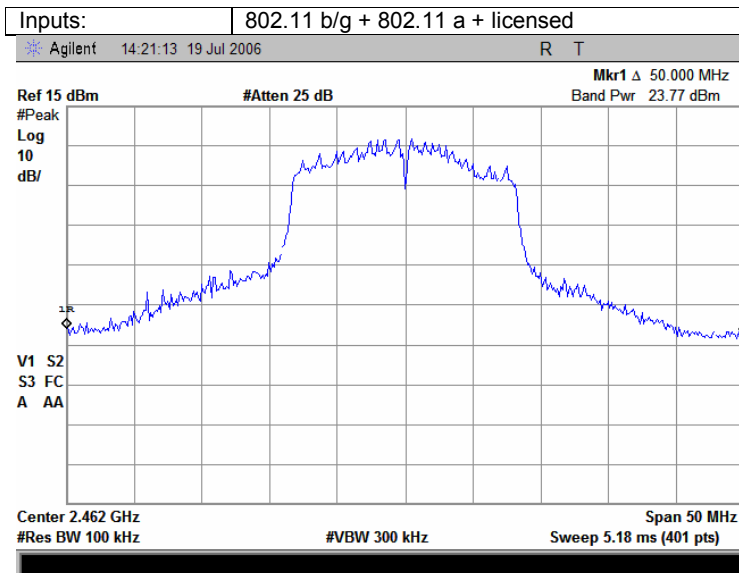


Plot 7.2.20 Peak output power at mid frequency, OFDM, 6 Mbps

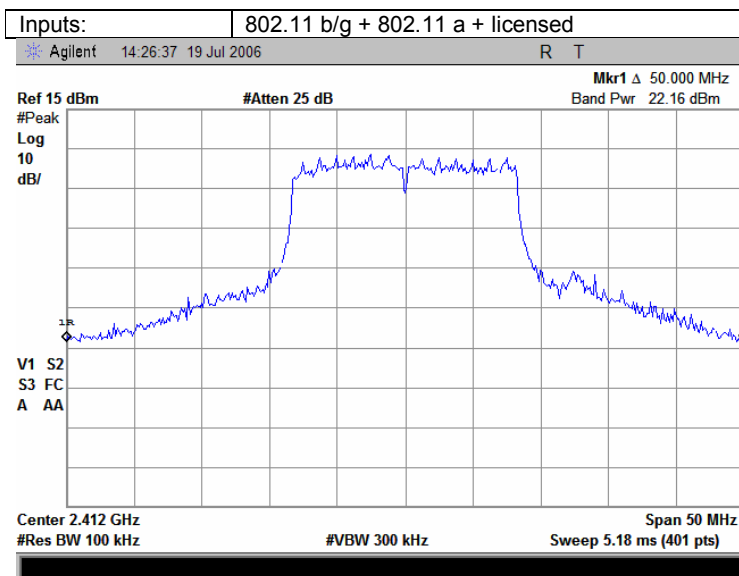


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.21 Peak output power at high frequency, OFDM, 6 Mbps

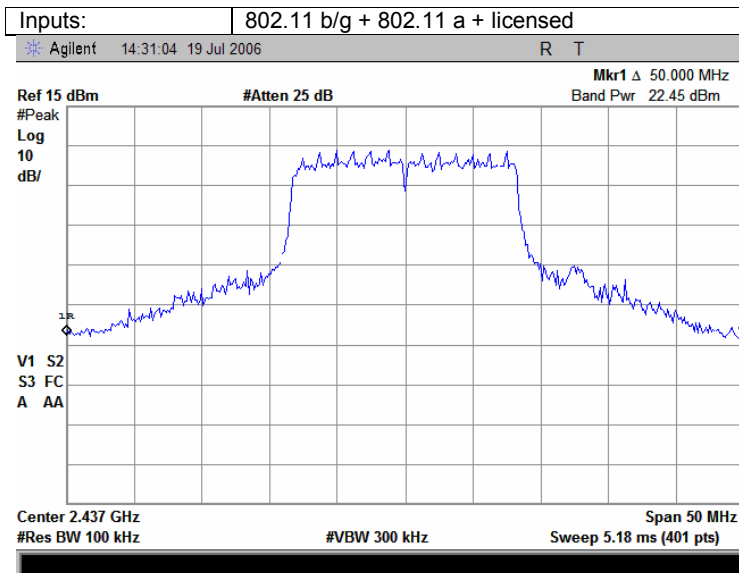


Plot 7.2.22 Peak output power at low frequency, OFDM, 54 Mbps

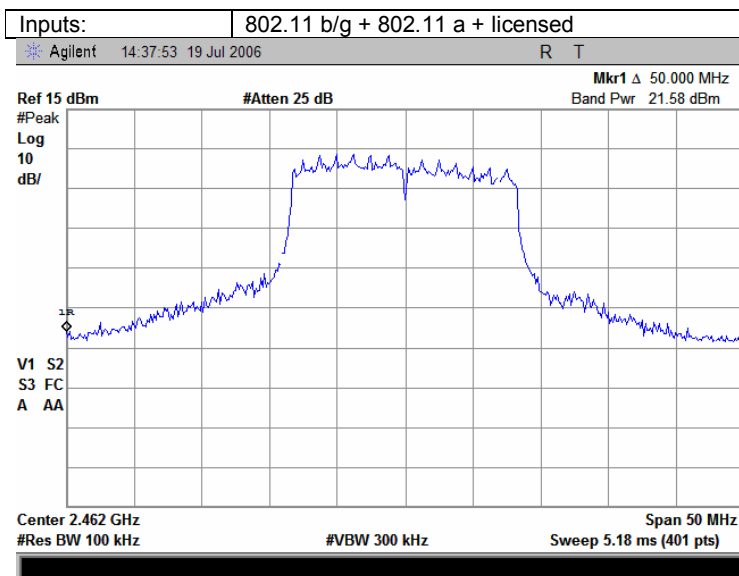


Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/25/2006 1:35:26 PM		
Temperature: 22 °C	Air Pressure: 1013 hPa	Relative Humidity: 54 %	Power Supply: 120 VAC
Remarks:			

Plot 7.2.23 Peak output power at mid frequency, OFDM, 54 Mbps



Plot 7.2.24 Peak output power at high frequency, OFDM, 54 Mbps



Test specification:		Section 15.247(b)3, Peak output power			
Test procedure:		FR Vol.62, page 26243, Section 15.247(b)			
Test mode:		Compliance		Verdict: PASS	
Date & Time:		6/29/2006 6:37:06 PM			
Temperature: 24.4 °C		Air Pressure: 1013 hPa		Relative Humidity: 60 %	
Remarks: 802.11b/g		Power Supply: 120 VAC			

Table 7.2.3 Peak output power test results

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz
MODULATION: DBPSK, CCK, BPSK, 64-QAM
MODULATING SIGNAL: PRBS
BIT RATE: 1, 11, 6, 54 Mbps
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
DETECTOR USED: Peak
EUT 6 dB BANDWIDTH: 12.5 MHz (DSSS) / 16.3 MHz (OFDM)
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: 300 kHz
INPUTS: 802.11 b/g

Carrier frequency, MHz	Spectrum analyzer reading, dBm	External attenuation, dB	Cable loss, dB	Peak output power, dBm	Limit, dBm	Margin*, dB	Verdict
DSSS, 1 Mbps							
2412	25.07	Included	Included	25.07	30.0	-4.93	Pass
2437	24.94	Included	Included	24.94	30.0	-5.06	Pass
2462	24.09	Included	Included	24.09	30.0	-5.91	Pass
DSSS, 11 Mbps							
2412	26.16	Included	Included	26.16	30.0	-3.84	Pass
2437	26.16	Included	Included	26.16	30.0	-3.84	Pass
2462	24.86	Included	Included	24.86	30.0	-5.14	Pass
OFDM, 6 Mbps							
2412	24.88	Included	Included	24.88	30.0	-5.12	Pass
2437	22.78	Included	Included	22.78	30.0	-7.22	Pass
2462	22.39	Included	Included	22.39	30.0	-7.61	Pass
OFDM, 54 Mbps							
2412	25.13	Included	Included	25.13	30.0	-4.87	Pass
2437	22.83	Included	Included	22.83	30.0	-7.17	Pass
2462	24.46	Included	Included	24.46	30.0	-5.54	Pass

* - Margin = Peak output power – specification limit.

Reference numbers of test equipment used

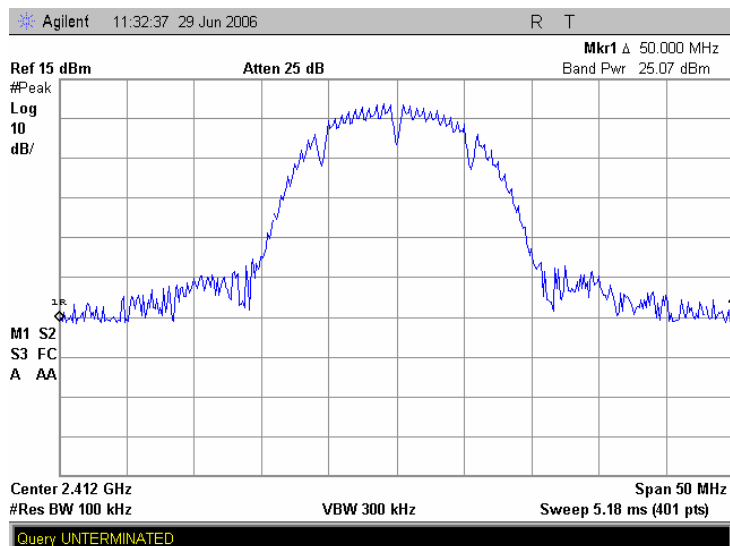
HL 1650	HL 2780	HL 2867					
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Full description is given in Appendix A.

Test specification:		Section 15.247(b)3, Peak output power	
Test procedure:		FR Vol.62, page 26243, Section 15.247(b)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 6:37:06 PM	
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

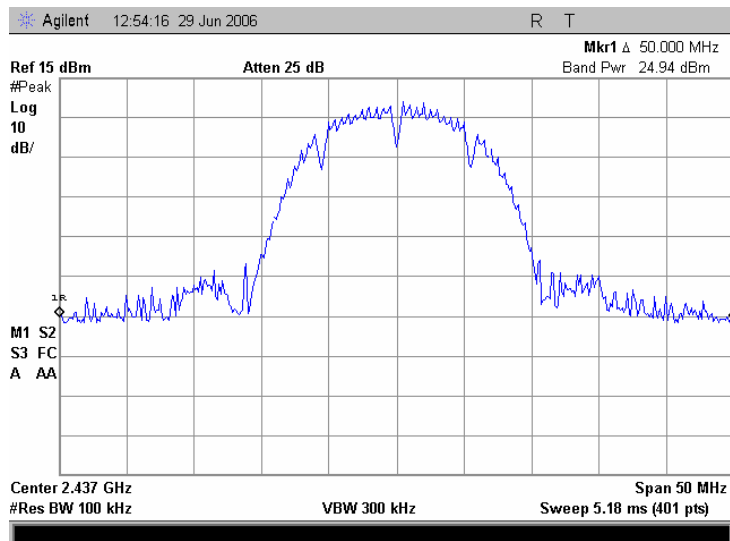
Plot 7.2.25 Peak output power at low frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g



Plot 7.2.26 Peak output power at mid frequency, DSSS, 1 Mbps

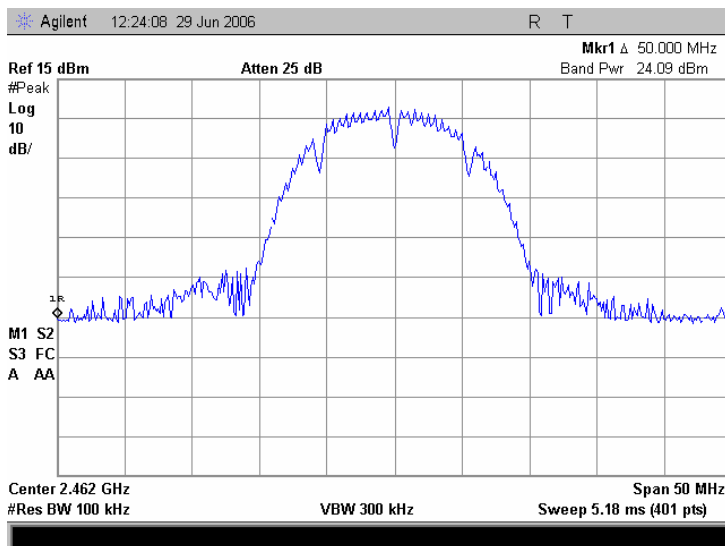
Inputs: 802.11 b/g



Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:37:06 PM		
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

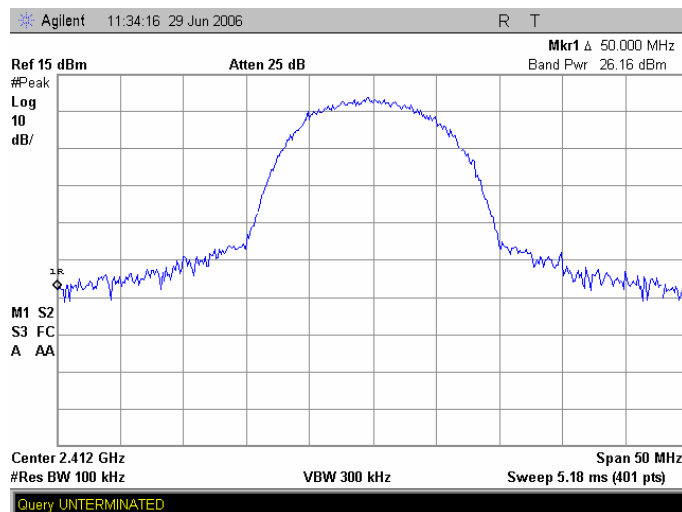
Plot 7.2.27 Peak output power at high frequency, DSSS, 1 Mbps

Inputs: 802.11 b/g



Plot 7.2.28 Peak output power at low frequency, DSSS, 11 Mbps

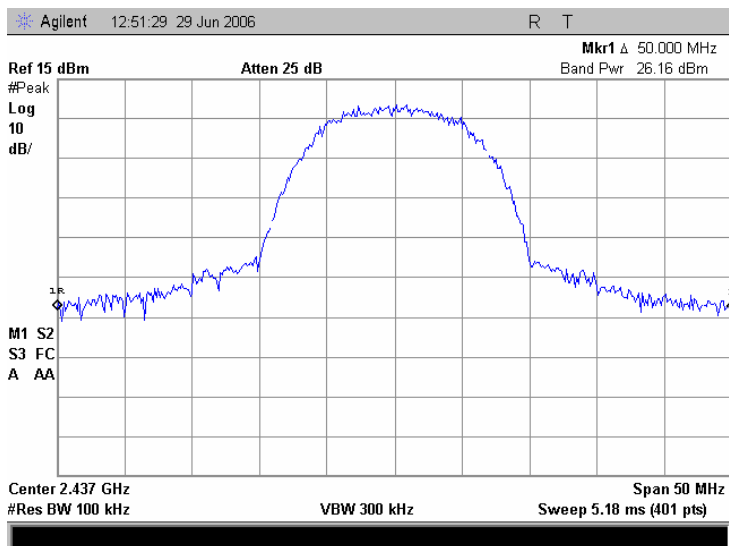
Inputs: 802.11 b/g



Test specification:		Section 15.247(b)3, Peak output power	
Test procedure:		FR Vol.62, page 26243, Section 15.247(b)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 6:37:06 PM	
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

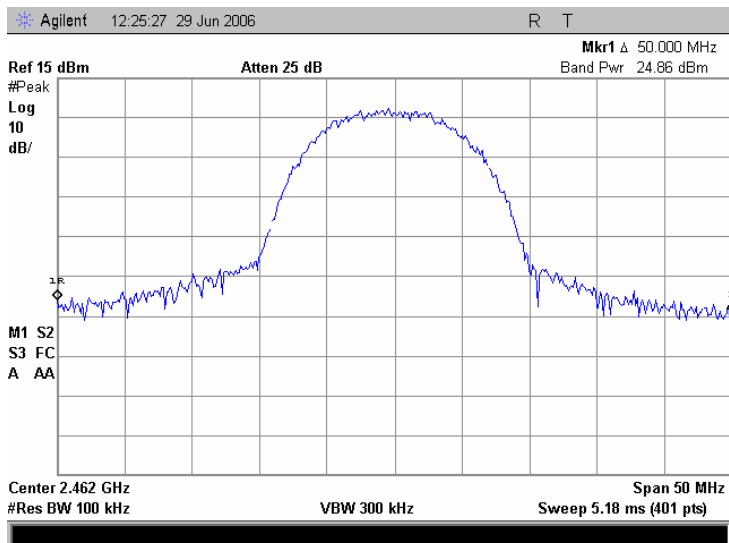
Plot 7.2.29 Peak output power at mid frequency, DSSS, 11 Mbps

Inputs: 802.11 b/g



Plot 7.2.30 Peak output power at high frequency, DSSS, 11 Mbps

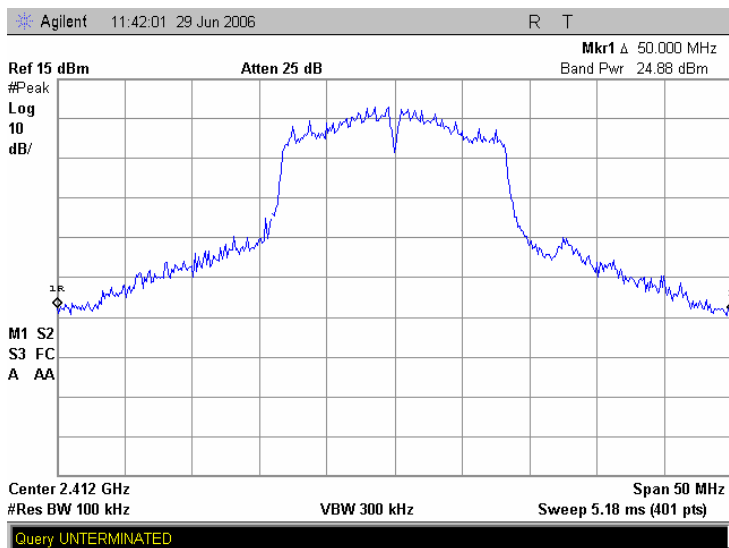
Inputs: 802.11 b/g



Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:37:06 PM		
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

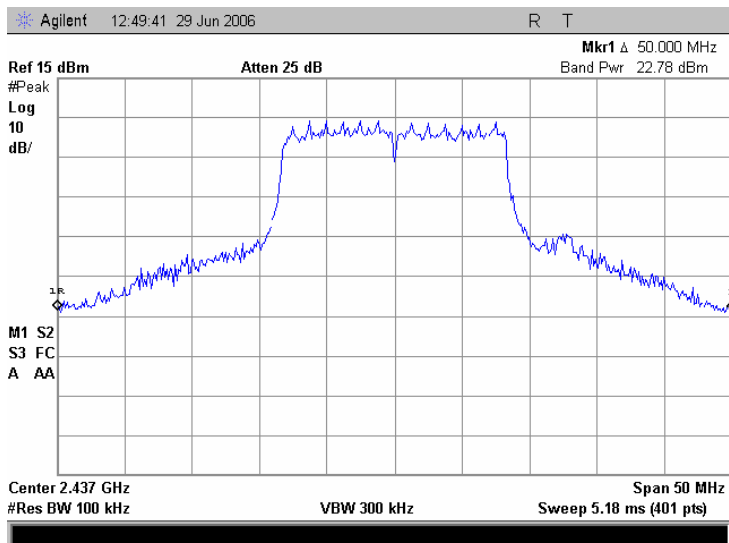
Plot 7.2.31 Peak output power at low frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g



Plot 7.2.32 Peak output power at mid frequency, OFDM, 6 Mbps

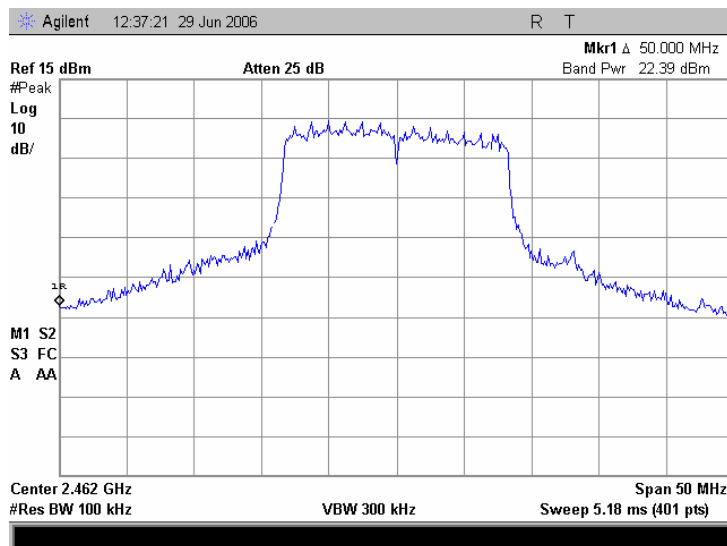
Inputs: 802.11 b/g



Test specification:		Section 15.247(b)3, Peak output power	
Test procedure:		FR Vol.62, page 26243, Section 15.247(b)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 6:37:06 PM	
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

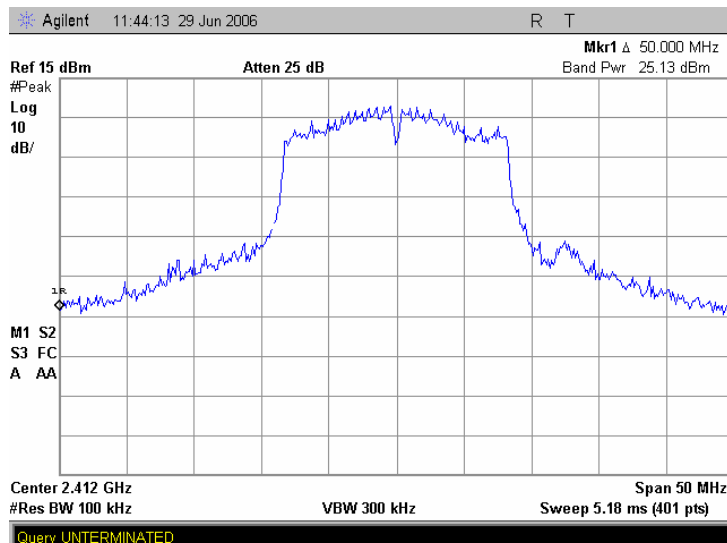
Plot 7.2.33 Peak output power at high frequency, OFDM, 6 Mbps

Inputs: 802.11 b/g



Plot 7.2.34 Peak output power at low frequency, OFDM, 54 Mbps

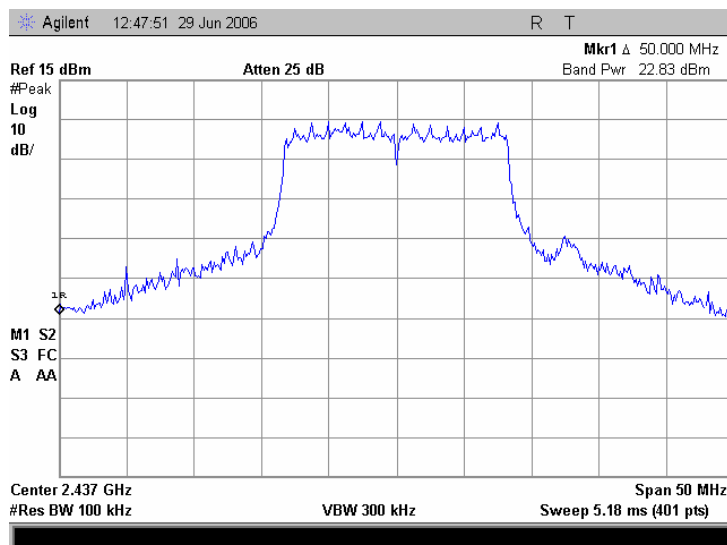
Inputs: 802.11 b/g



Test specification:	Section 15.247(b)3, Peak output power		
Test procedure:	FR Vol.62, page 26243, Section 15.247(b)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 6:37:06 PM		
Temperature: 24.4 °C	Air Pressure: 1013 hPa	Relative Humidity: 60 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

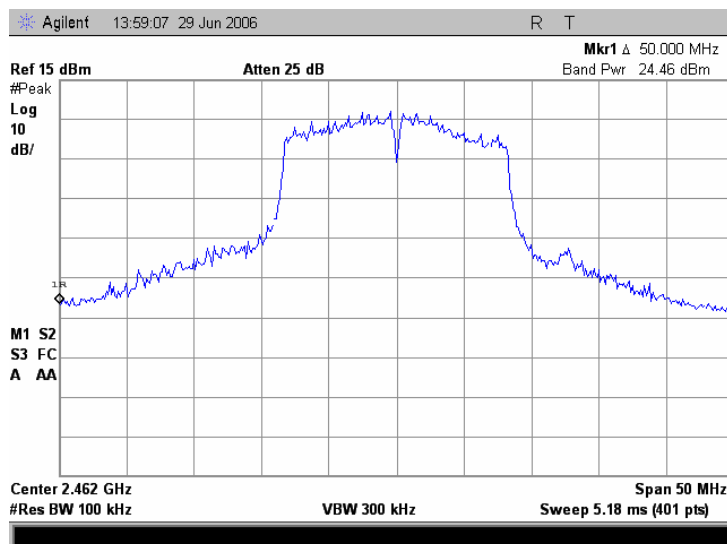
Plot 7.2.35 Peak output power at mid frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g



Plot 7.2.36 Peak output power at high frequency, OFDM, 54 Mbps

Inputs: 802.11 b/g



Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

7.3 Spurious emissions at RF antenna connector

7.3.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.3.1. The test results are provided in Table 7.3.2 and associated plots.

Table 7.3.1 Spurious emission limits

Frequency*, MHz	Attenuation below carrier*, dBc
0.009 – 10 th harmonic	20.0

* - The above limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

** - Spurious emission limit is provided in terms of attenuation below the peak of modulated carrier measured with the same resolution bandwidth.

7.3.2 Test procedure

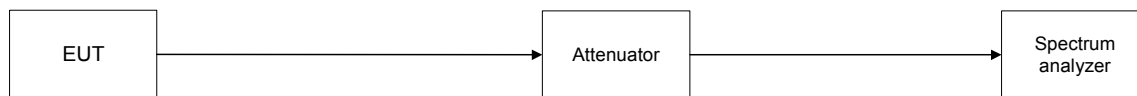
7.3.2.1 The EUT was set up as shown in Figure 7.3.1, energized and its proper operation was checked.

7.3.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

7.3.2.3 The highest emission level within the authorized band was measured.

7.3.2.4 The spurious emission was measured with spectrum analyzer as provided in Table 7.3.2, Table 7.3.3 and associated plots and referenced to the highest emission level measured within the authorized band.

Figure 7.3.1 Spurious emission test setup



Test specification:	Section 15.247(c), Conducted spurious emissions				
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)				
Test mode:	Compliance	Verdict:		PASS	
Date & Time:	5/26/2006 4:40:02 PM				
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC		
Remarks:					

Table 7.3.2 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 2400 – 2483.5 MHz
INVESTIGATED FREQUENCY RANGE: 0.009 – 25000 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: 300 kHz
MODULATION: DSSS / OFDM
MODULATING SIGNAL: PRBS
BIT RATE: 1 / 6 Mbps
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
INPUTS: 802.11 b/g + 802.11 a

Frequency, MHz	Spurious emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
Modulation DSSS						
Low carrier frequency						
2400.00	-29.28	12.86	42.14	20.0	22.14	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
2484.53	-37.90	12.08	49.98	20.0	29.98	Pass
Modulation OFDM						
Low carrier frequency						
2398.75	-22.50	12.06	34.56	20.0	14.56	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
2484.58	-35.64	11.81	47.45	20.0	27.45	Pass

INPUTS: 802.11 b/g + 802.11 a + licensed

Frequency, MHz	Spurious emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
Modulation DSSS						
Low carrier frequency						
2400.00	-29.38	12.24	41.62	20.0	21.62	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
2483.67	-37.48	12.61	40.09	20.0	20.09	Pass
Modulation OFDM						
Low carrier frequency						
2399.25	-22.52	11.95	34.47	20.0	14.47	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
2483.50	-35.84	12.17	48.01	20.0	28.01	Pass

*- Margin = Attenuation below carrier – specification limit.

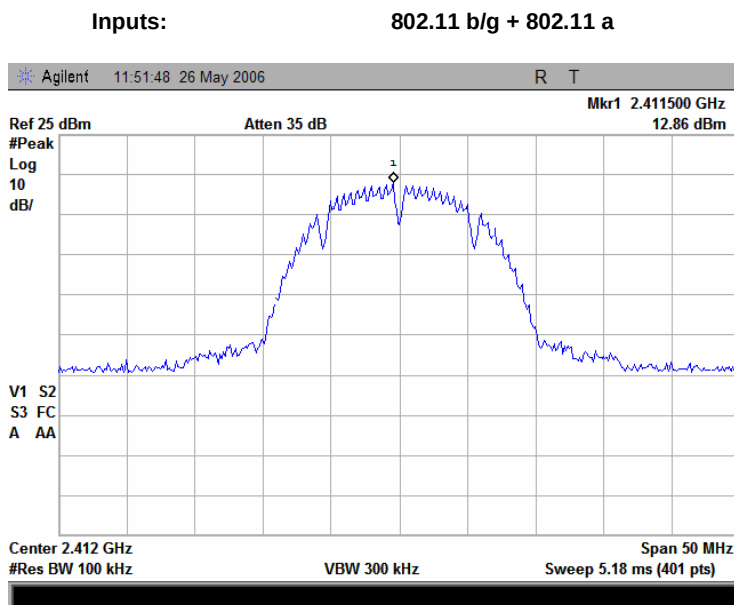
Reference numbers of test equipment used

HL 1650	HL 2254	HL 2780	HL 2867			
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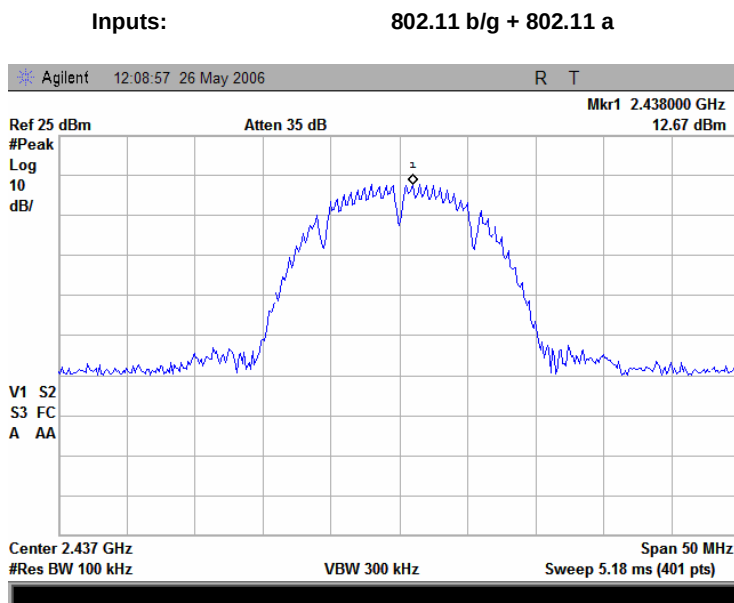
Full description is given in Appendix A.

Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.1 The highest emission level within the assigned band at low carrier frequency, DSSS modulation

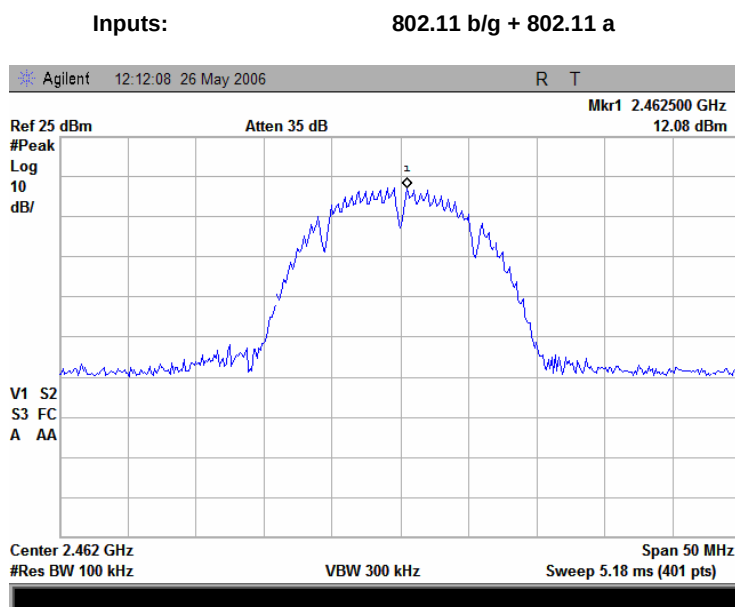


Plot 7.3.2 The highest emission level within the assigned band at mid carrier frequency, DSSS modulation

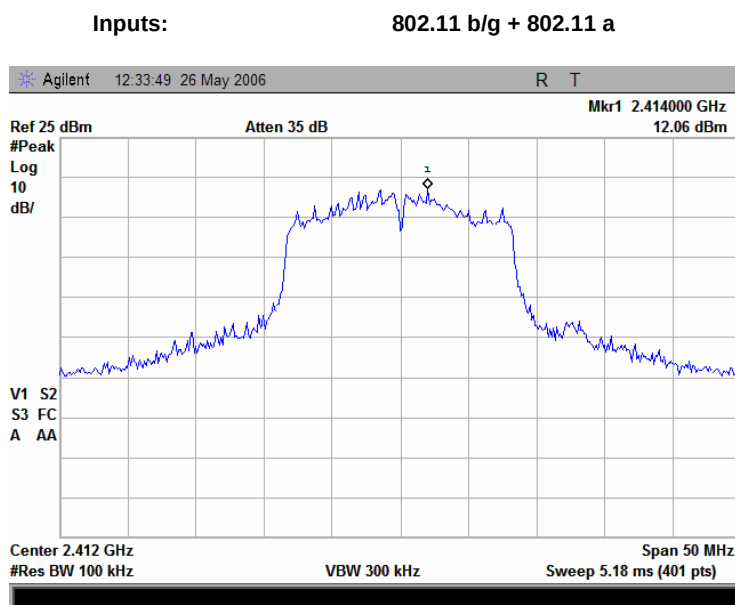


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.3 The highest emission level within the assigned band at high carrier frequency, DSSS modulation

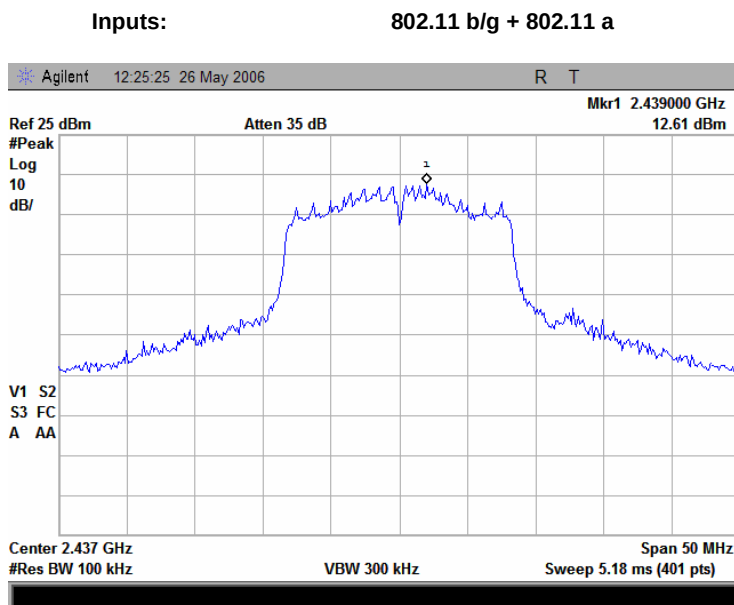


Plot 7.3.4 The highest emission level within the assigned band at low carrier frequency, OFDM modulation

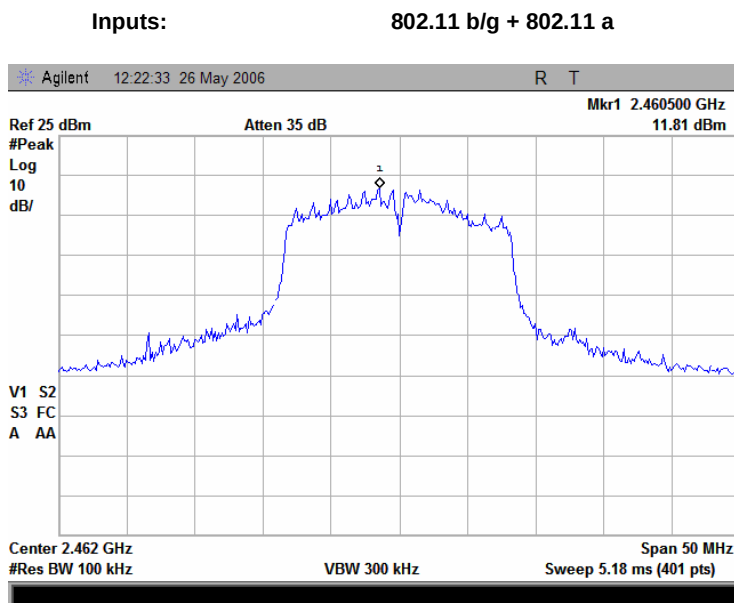


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.5 The highest emission level within the assigned band at mid carrier frequency, OFDM modulation

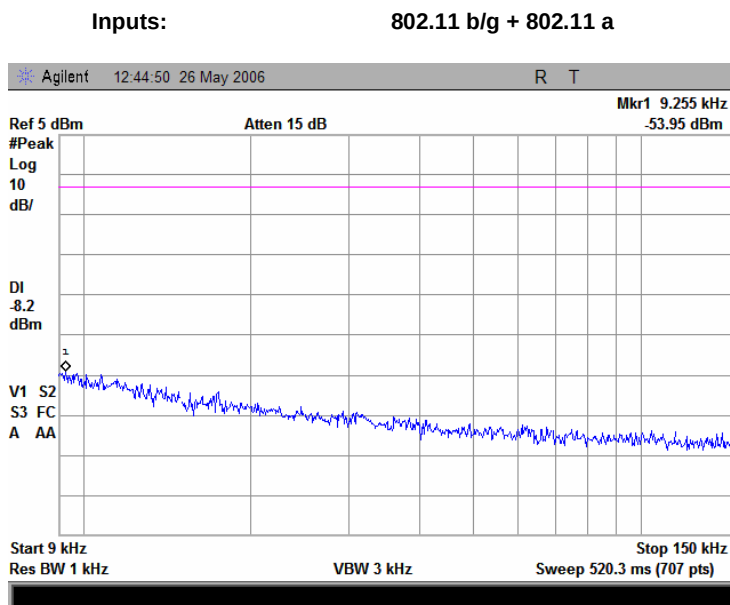


Plot 7.3.6 The highest emission level within the assigned band at high carrier frequency, OFDM modulation

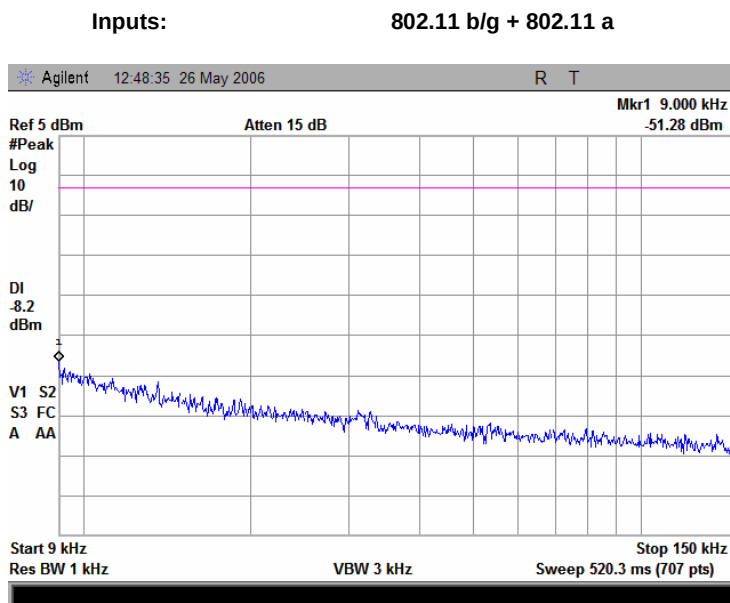


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.7 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, DSSS modulation

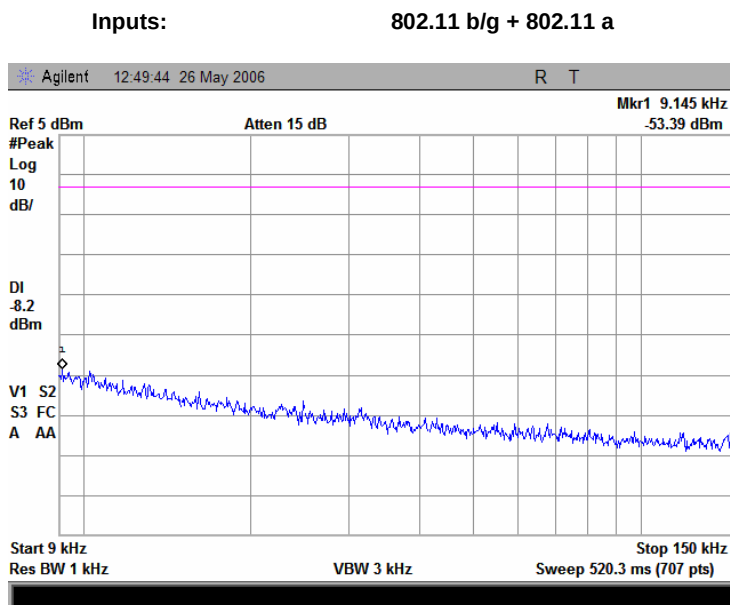


Plot 7.3.8 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, DSSS modulation

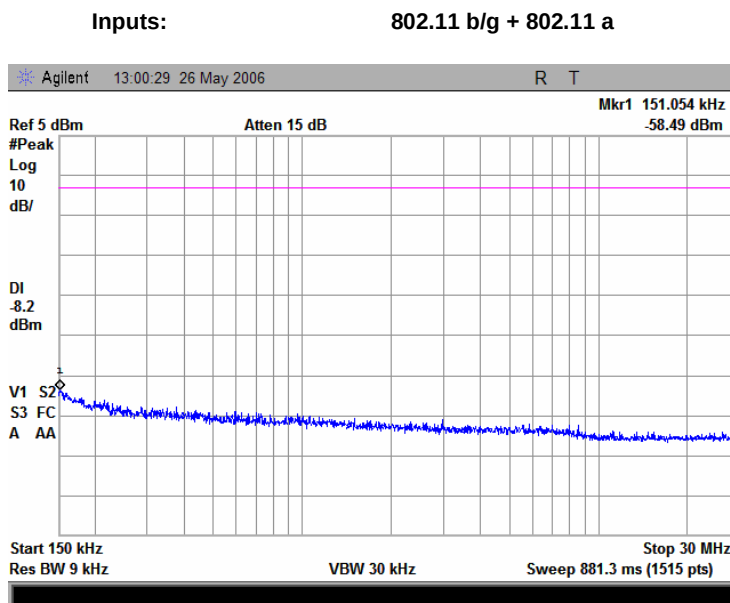


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.9 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, DSSS modulation

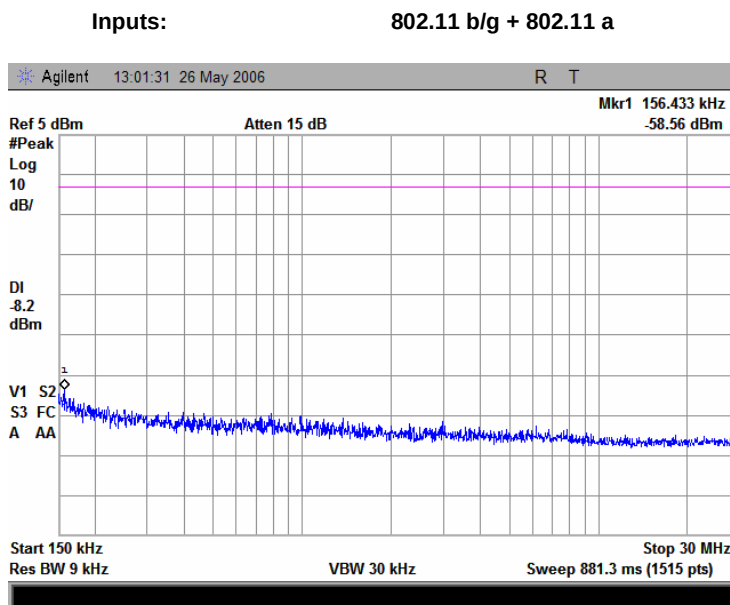


Plot 7.3.10 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, DSSS modulation

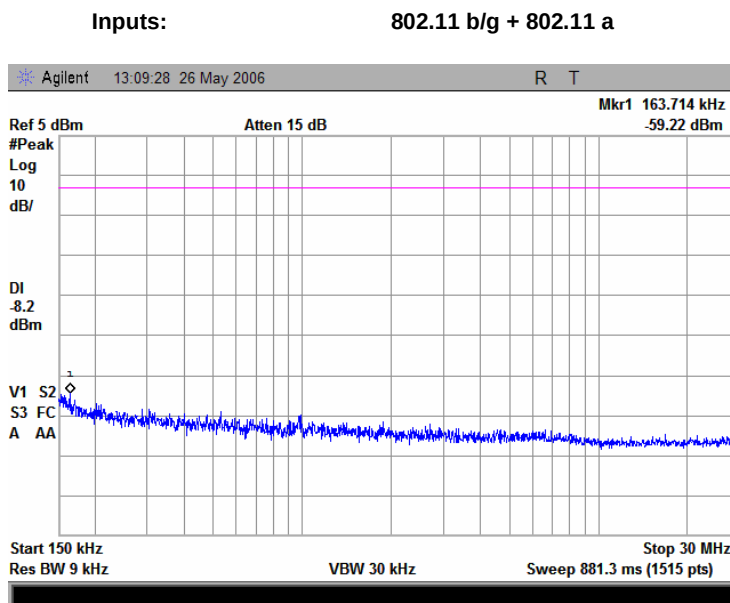


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.11 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, DSSS modulation

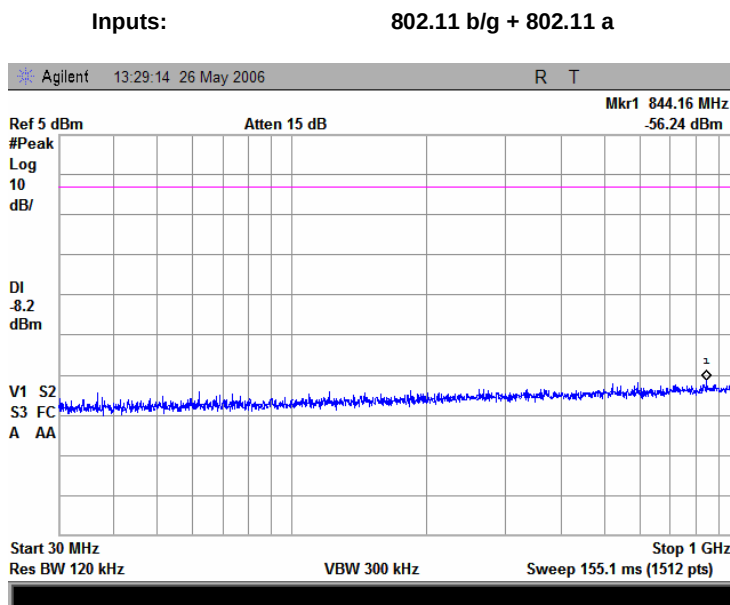


Plot 7.3.12 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, DSSS modulation

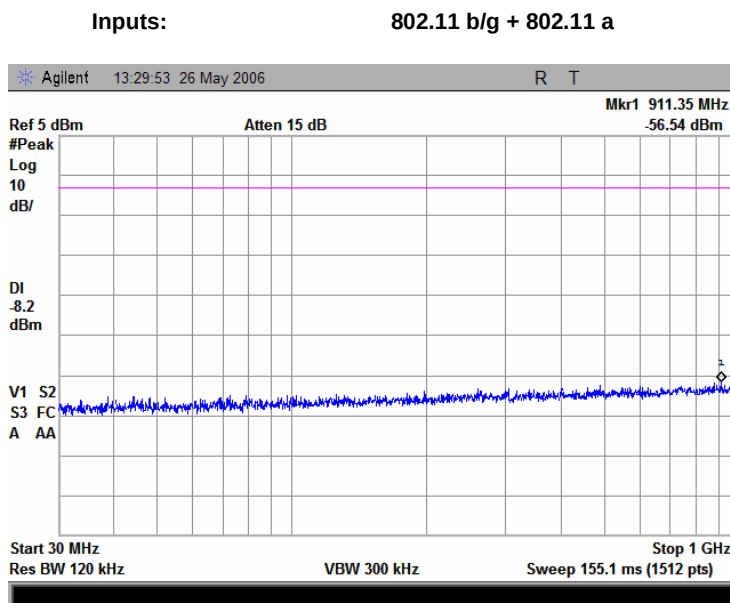


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.13 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, DSSS modulation



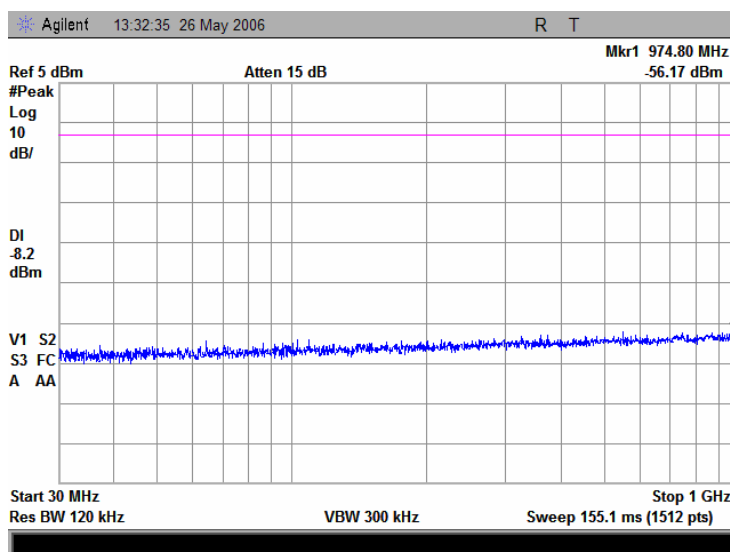
Plot 7.3.14 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, DSSS modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

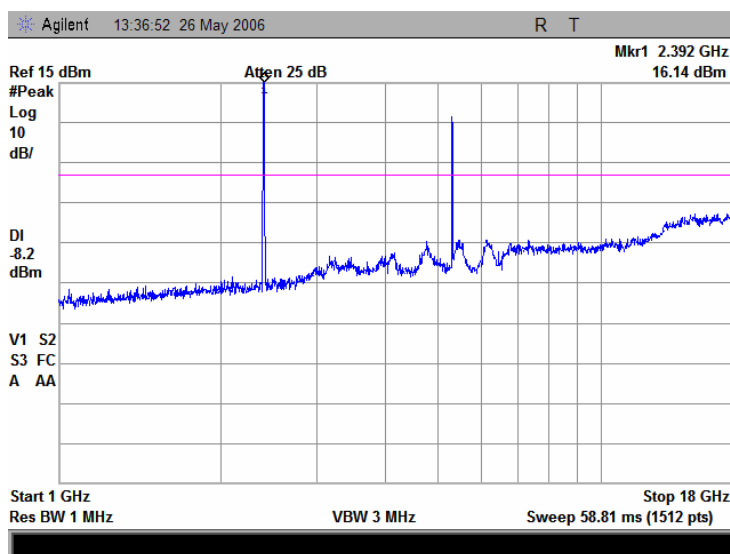
Plot 7.3.15 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.16 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a

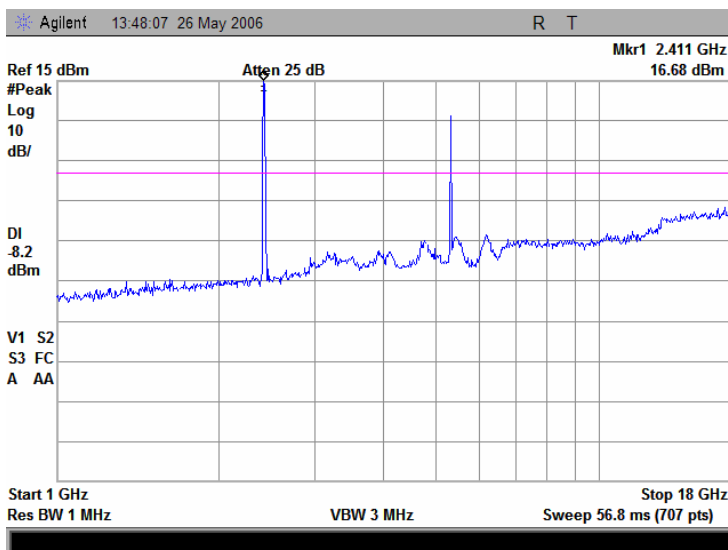


Note: 2.4 GHz intended emission of 802.11b, 5.3 GHz intended emission of 802.11a.

Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

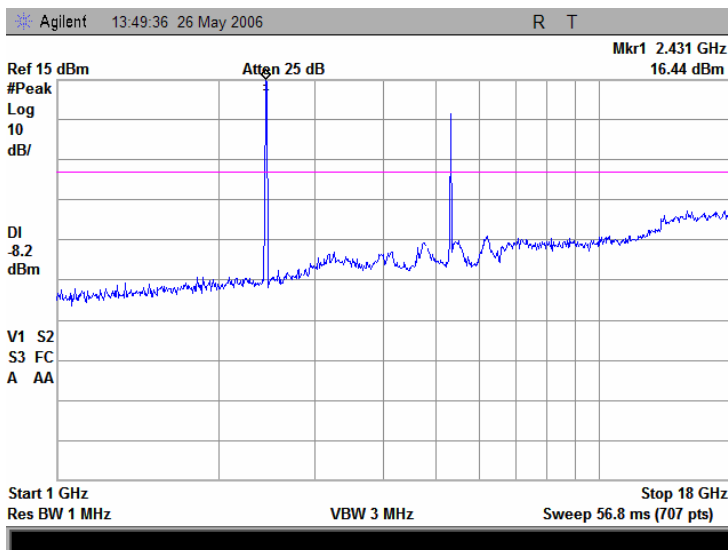
Plot 7.3.17 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.18 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, DSSS modulation

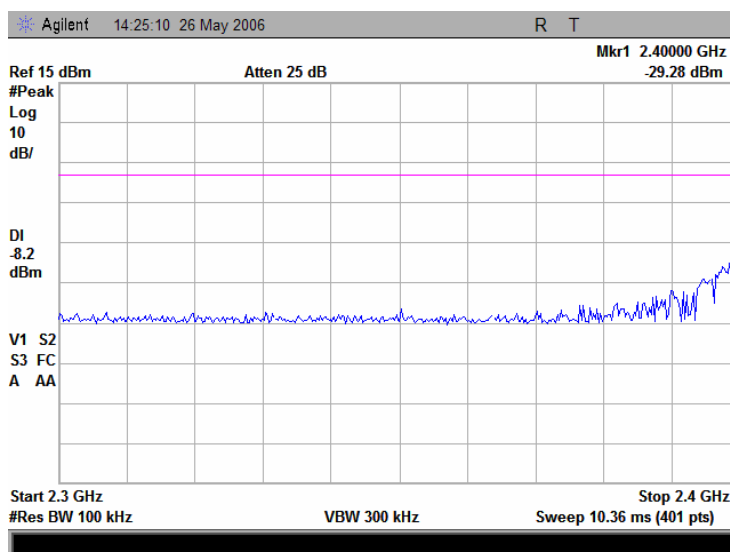
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

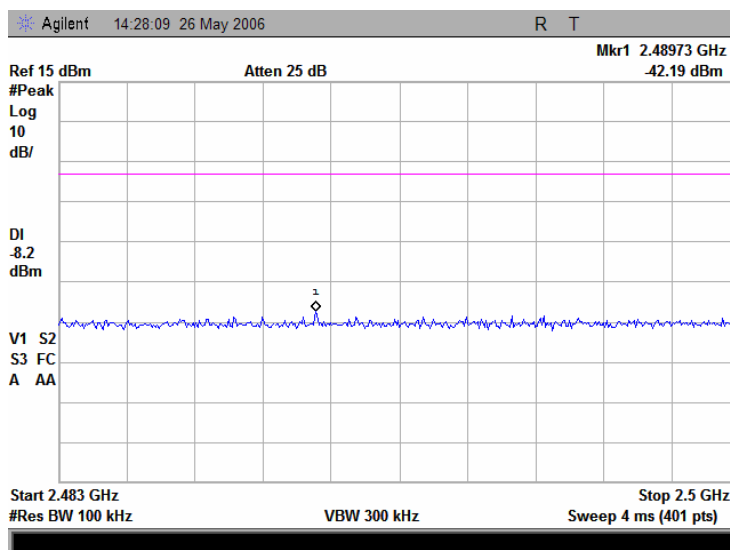
Plot 7.3.19 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.20 Spurious emission measurements in 2483.5 - 2500 MHz range at low carrier frequency, DSSS modulation

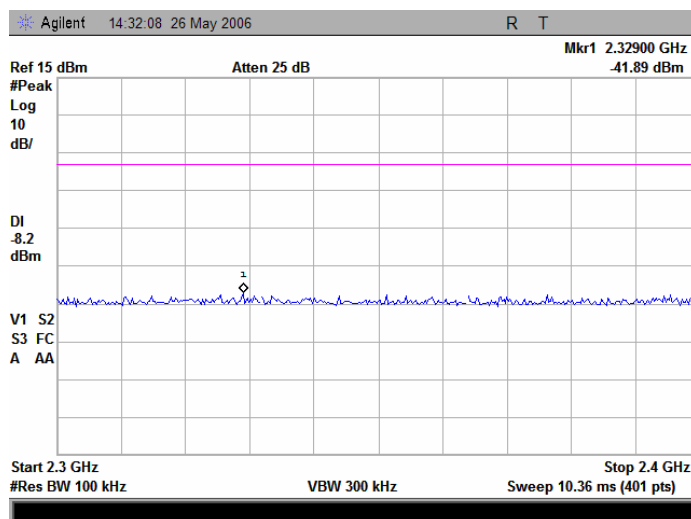
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

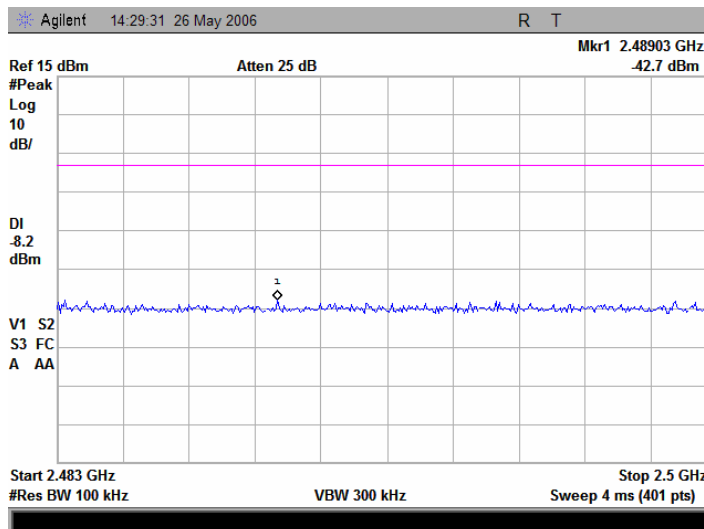
Plot 7.3.21 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.22 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, DSSS modulation

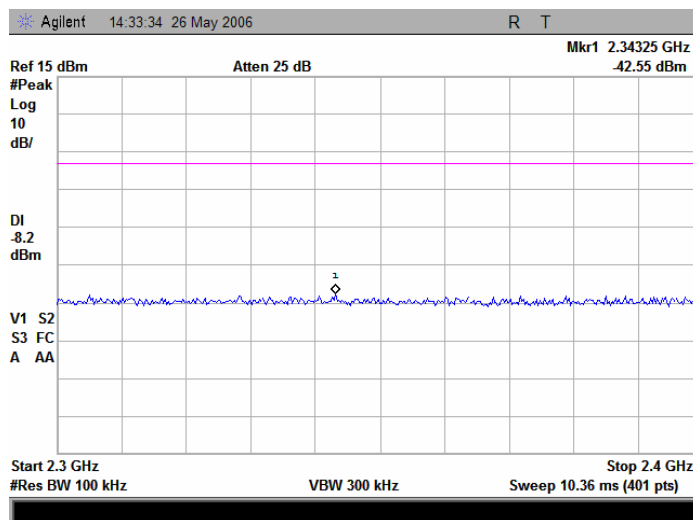
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

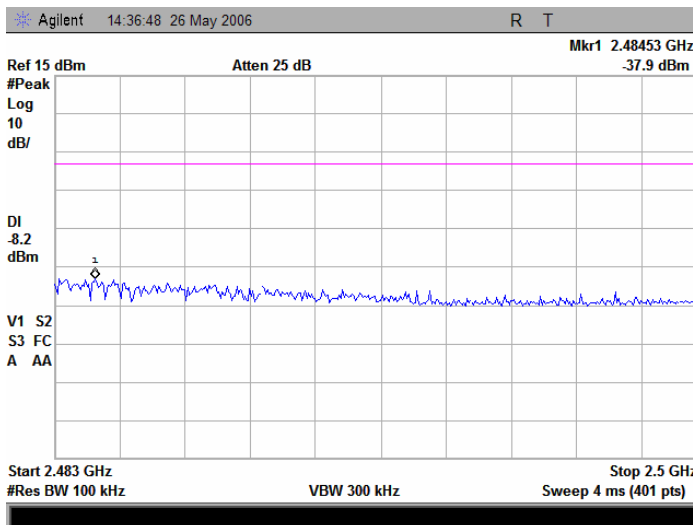
Plot 7.3.23 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



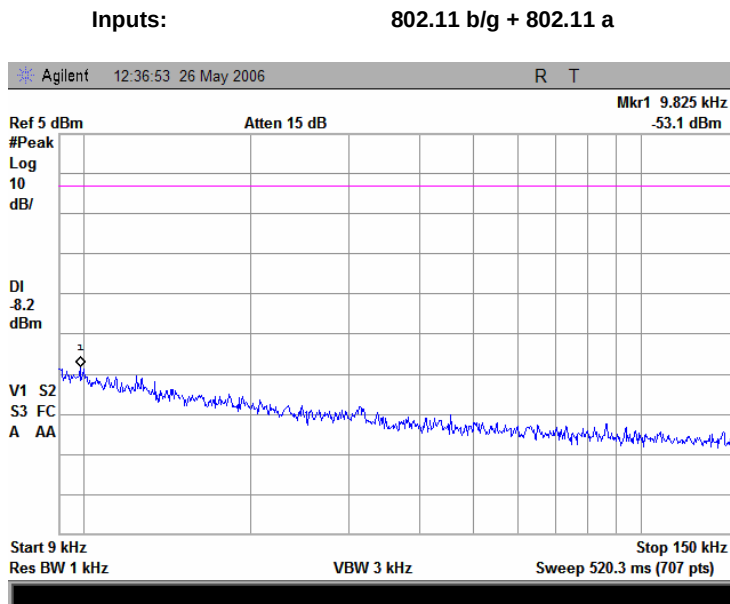
Plot 7.3.24 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a

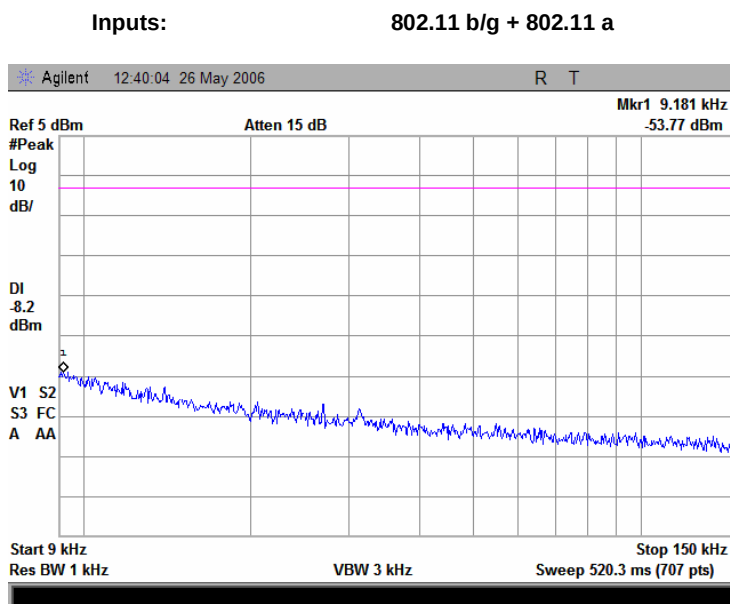


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.25 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, OFDM modulation

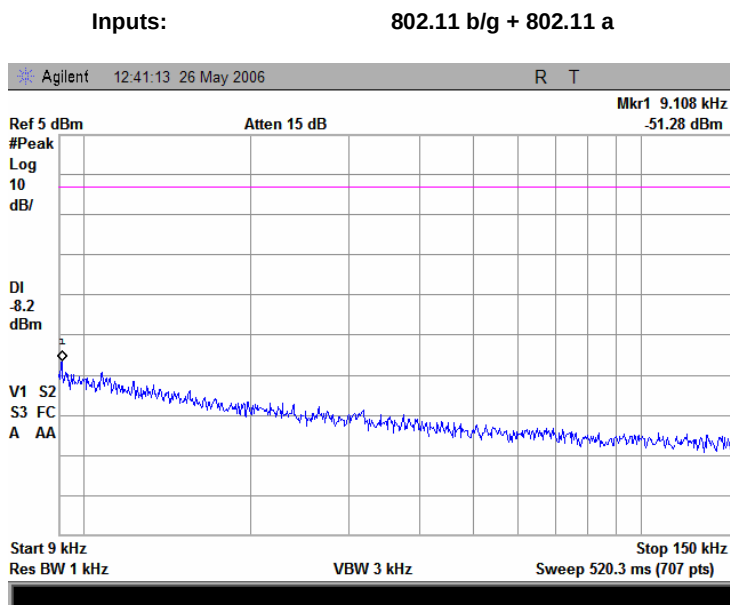


Plot 7.3.26 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, OFDM modulation

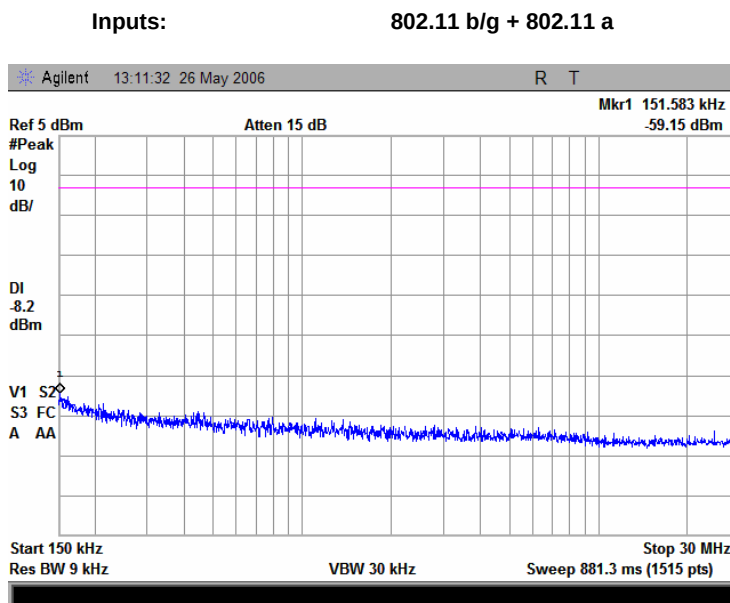


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.27 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, OFDM modulation

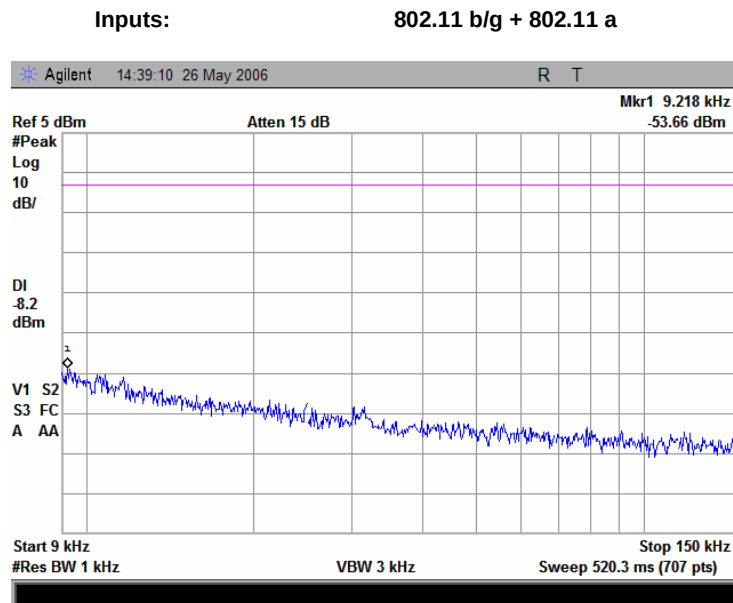


Plot 7.3.28 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, OFDM modulation

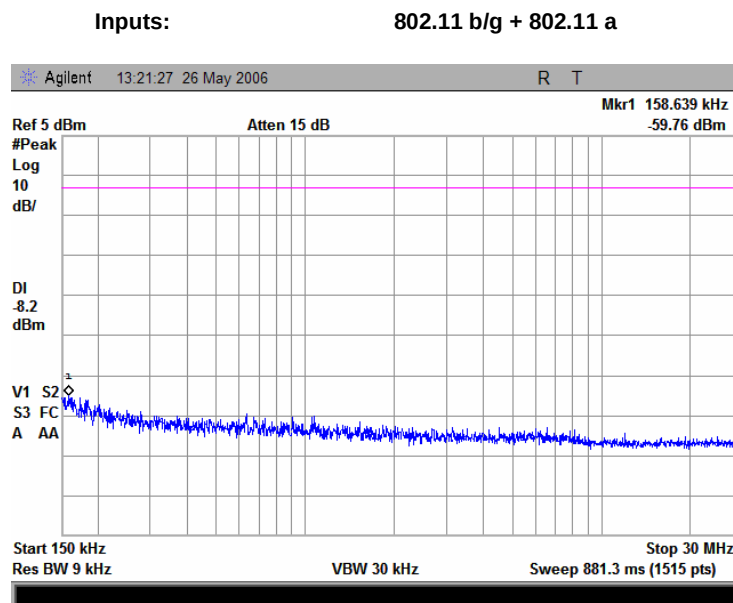


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.29 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, OFDM modulation

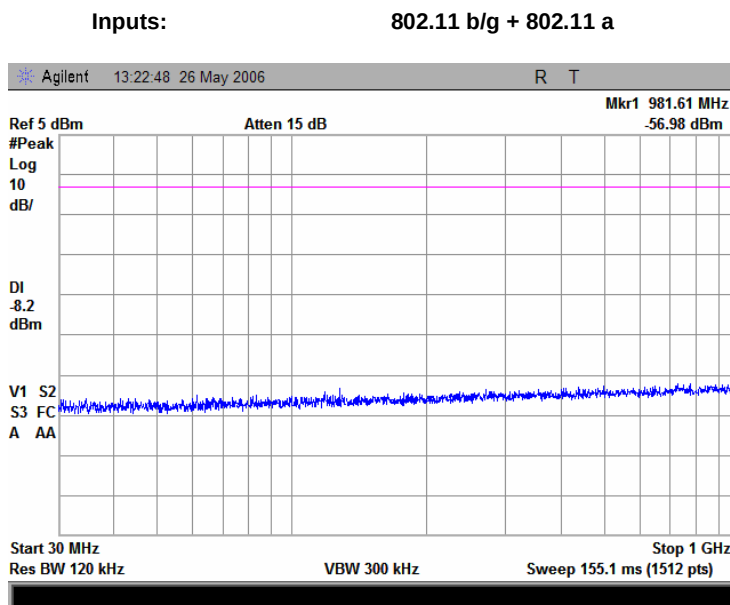


Plot 7.3.30 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, OFDM modulation

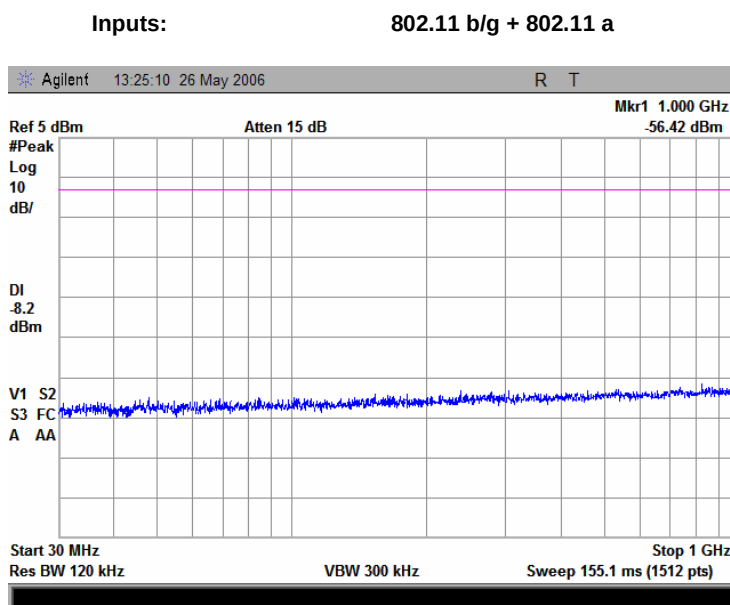


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.31 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, OFDM modulation

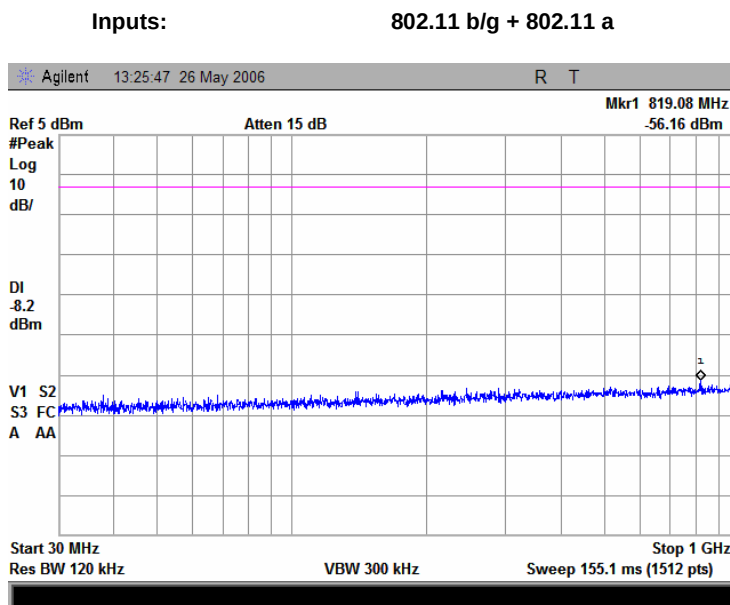


Plot 7.3.32 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, OFDM modulation

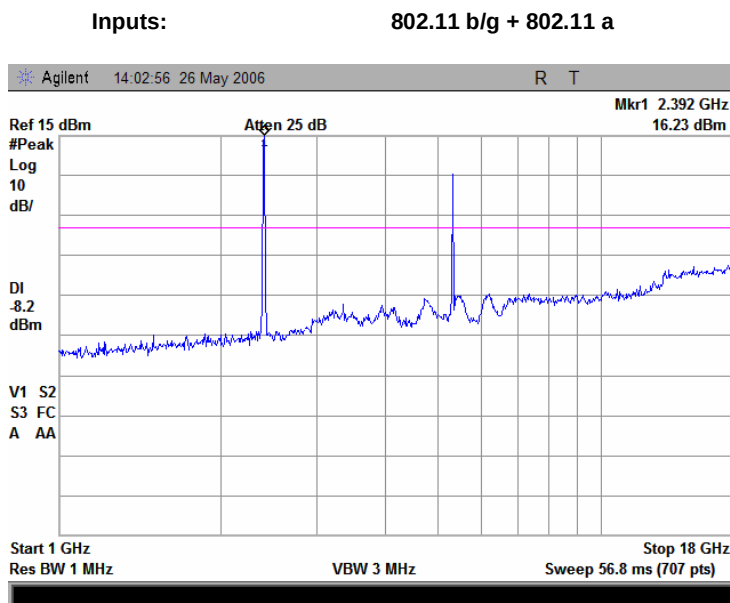


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.33 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, OFDM modulation



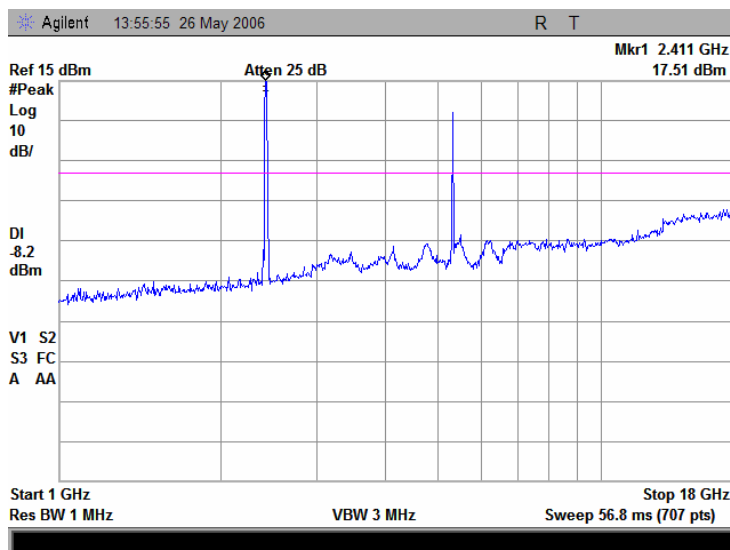
Plot 7.3.34 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, OFDM modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

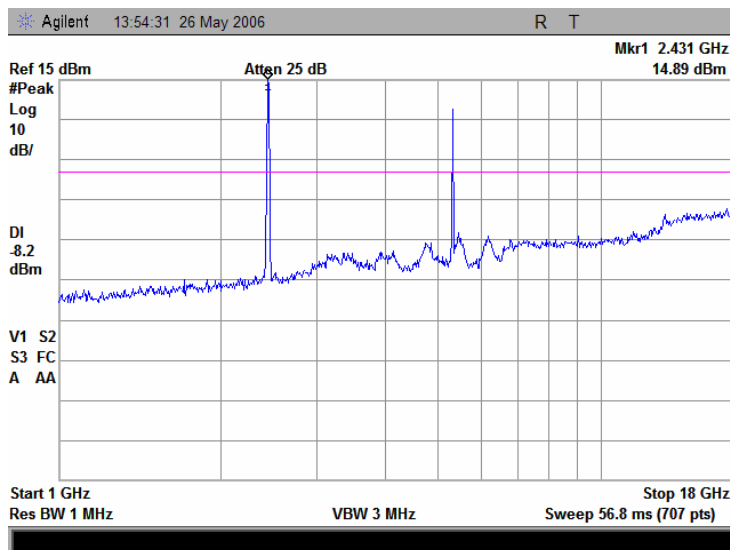
Plot 7.3.35 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a



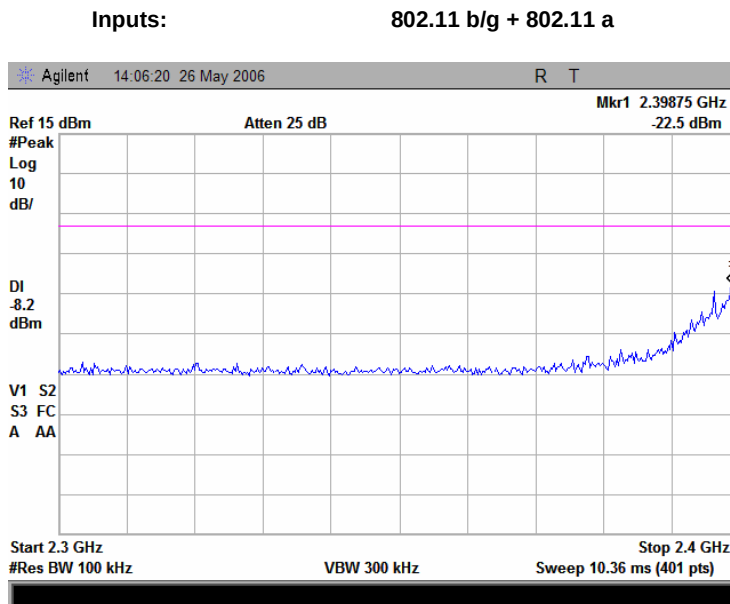
Plot 7.3.36 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a

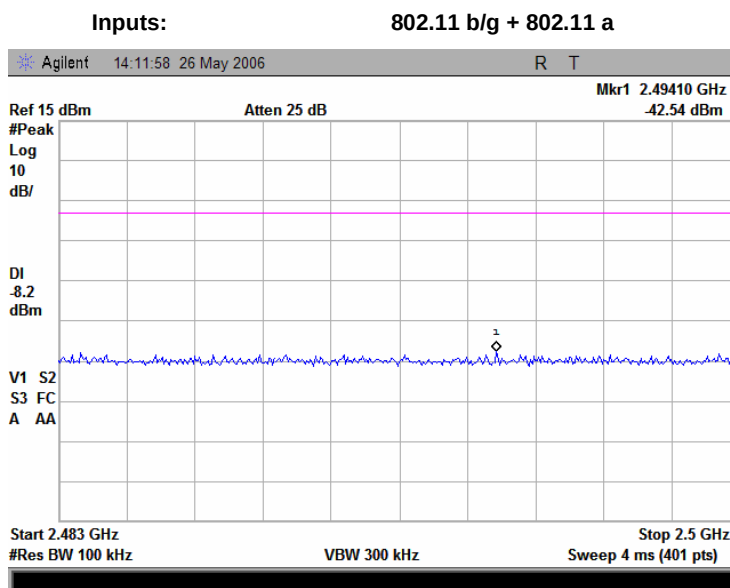


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.37 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, OFDM modulation

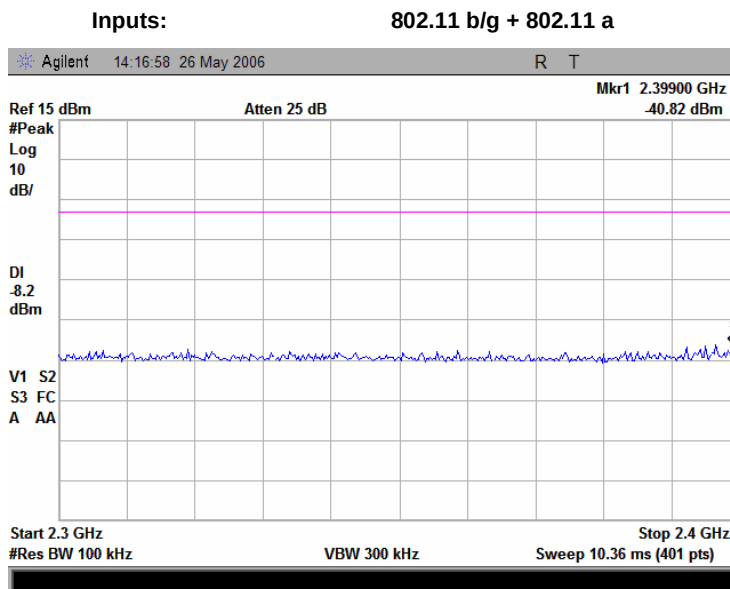


Plot 7.3.38 Spurious emission measurements in 2483.5 - 2500 MHz range at low carrier frequency, OFDM modulation

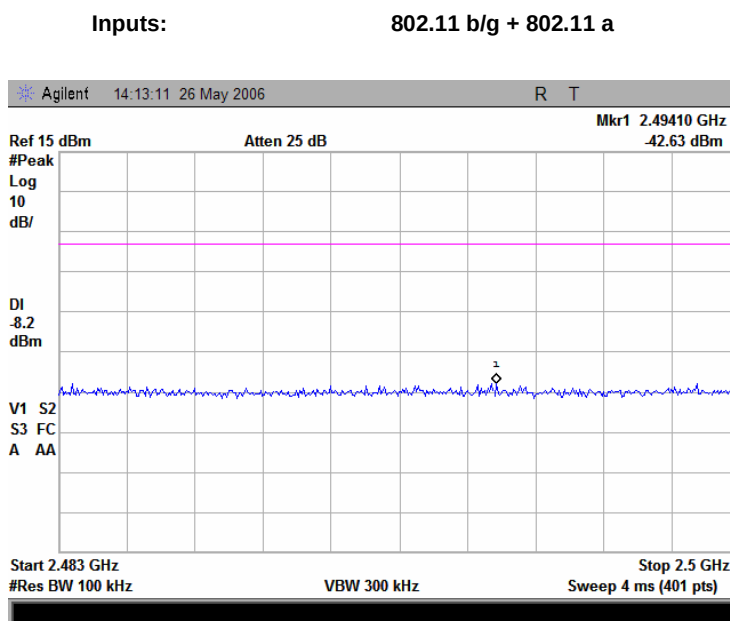


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.39 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, OFDM modulation



Plot 7.3.40 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, OFDM modulation

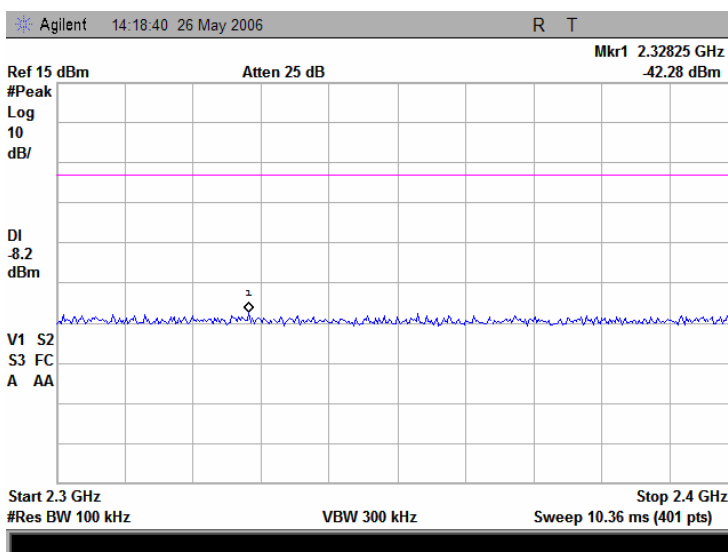


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.41 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, OFDM modulation

Inputs:

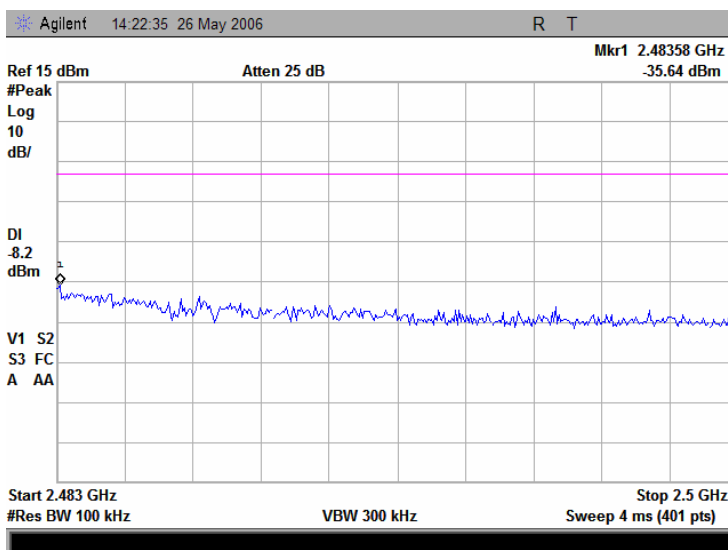
802.11 b/g + 802.11 a



Plot 7.3.42 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, OFDM modulation

Inputs:

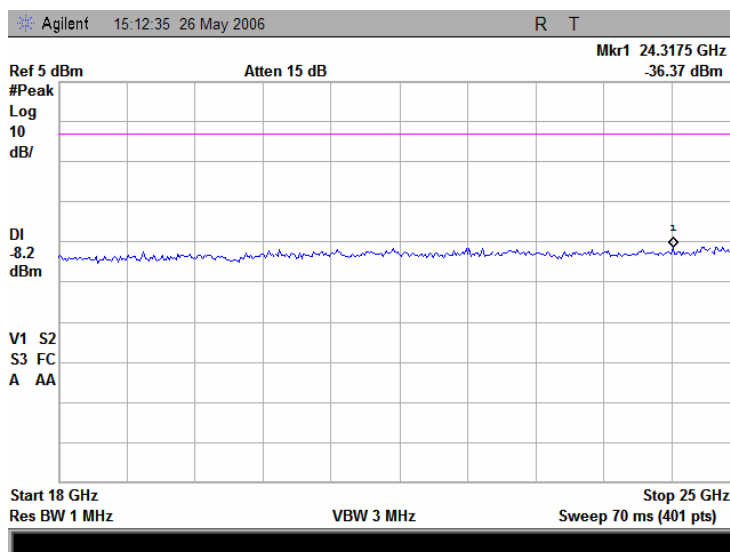
802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

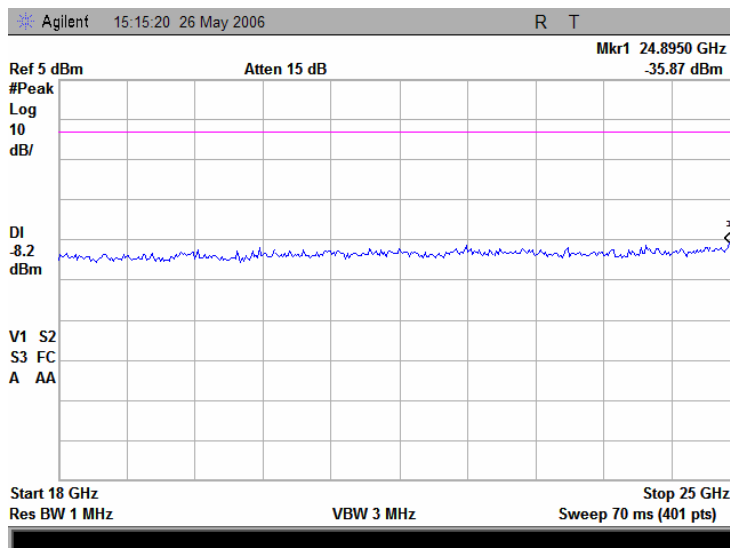
Plot 7.3.43 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.44 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, DSSS modulation

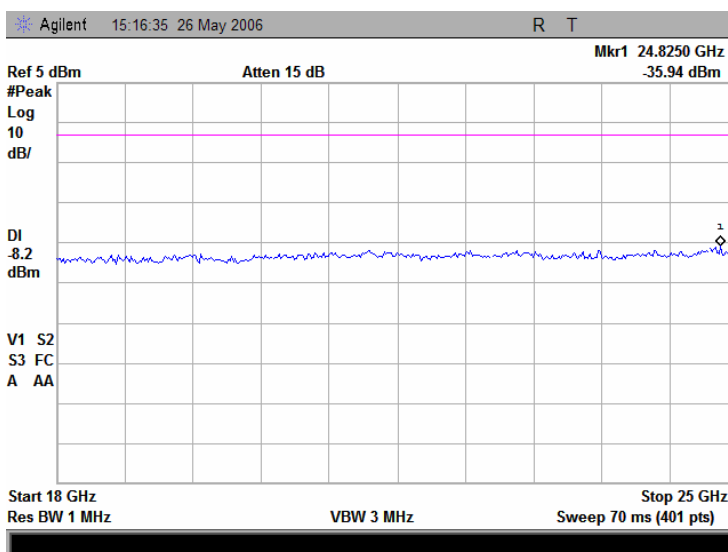
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

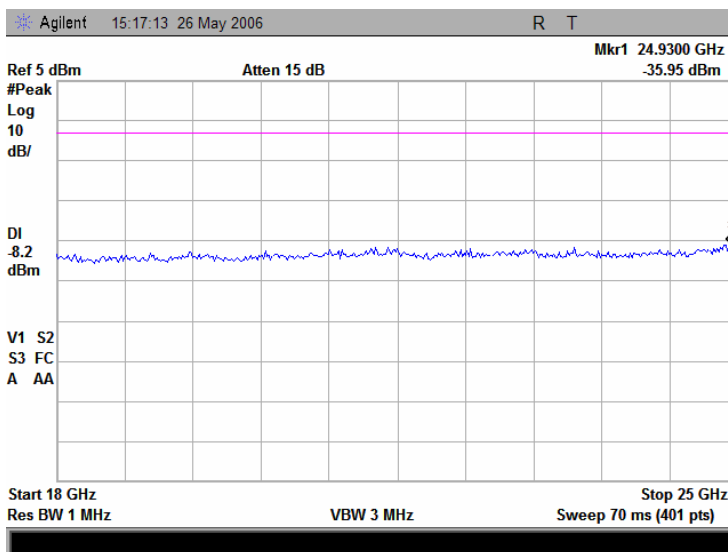
Plot 7.3.45 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.46 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, OFDM modulation

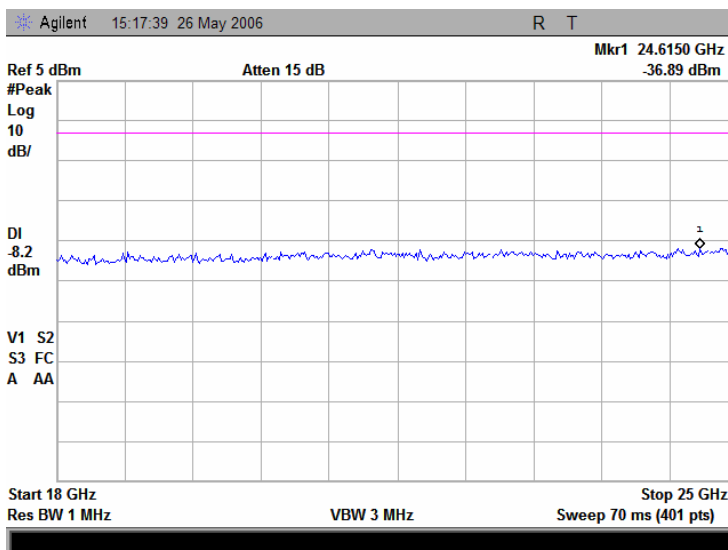
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

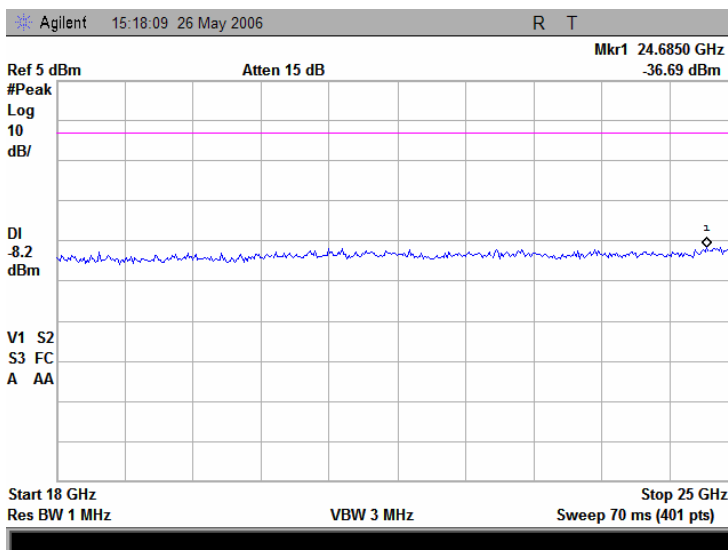
Plot 7.3.47 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a



Plot 7.3.48 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, OFDM modulation

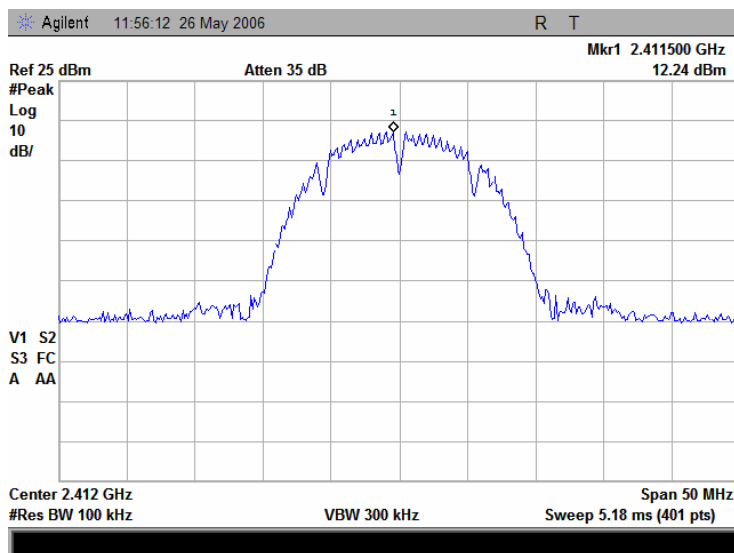
Inputs: 802.11 b/g + 802.11 a



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

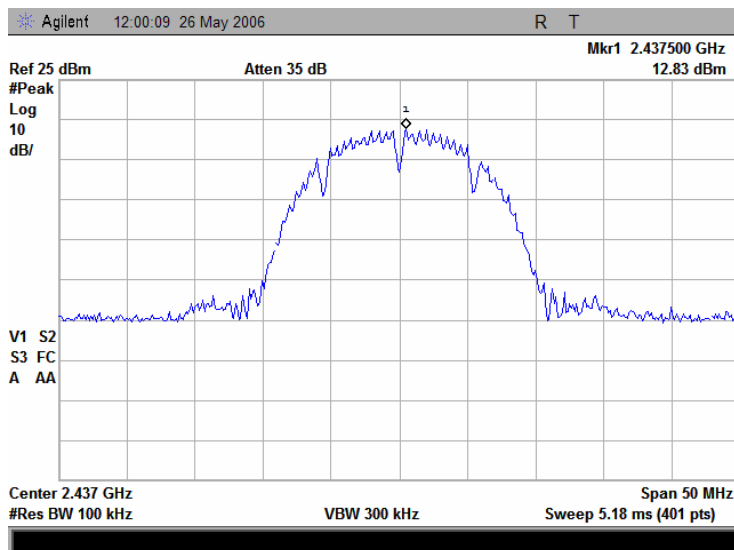
Plot 7.3.49 The highest emission level within the assigned band at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed



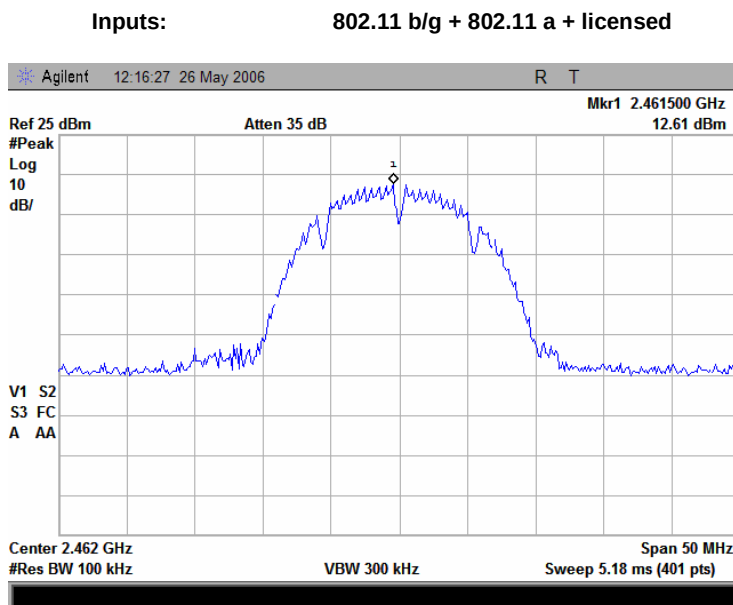
Plot 7.3.50 The highest emission level within the assigned band at mid carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed

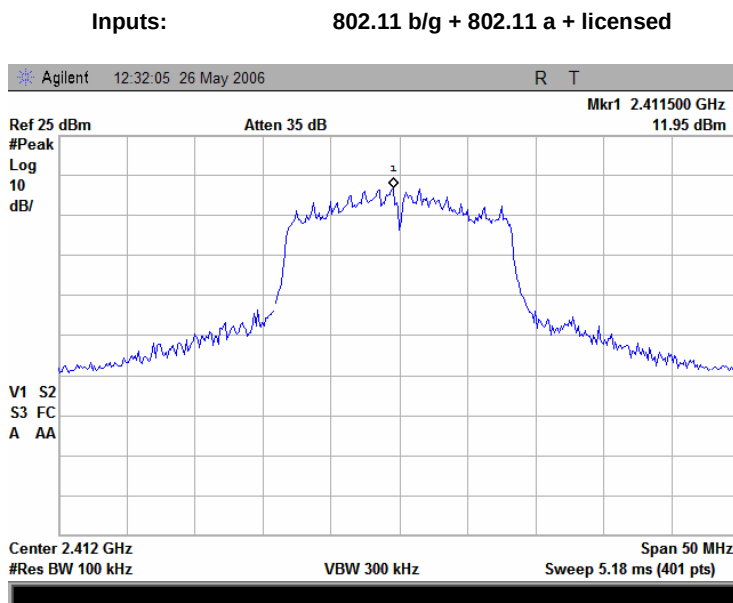


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.51 The highest emission level within the assigned band at high carrier frequency, DSSS modulation

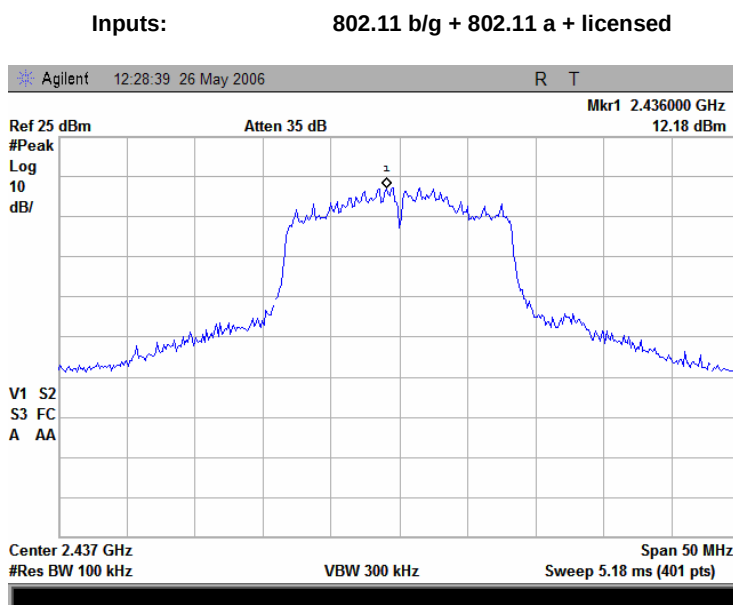


Plot 7.3.52 The highest emission level within the assigned band at low carrier frequency, OFDM modulation

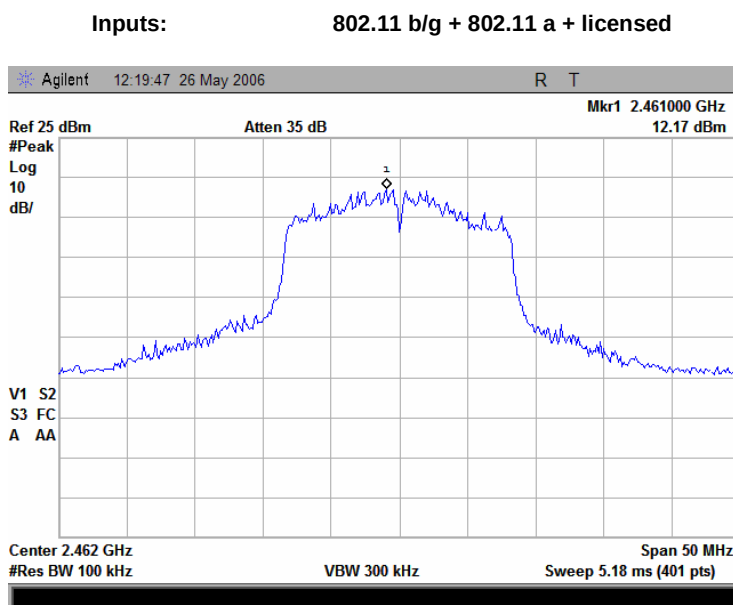


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.53 The highest emission level within the assigned band at mid carrier frequency, OFDM modulation

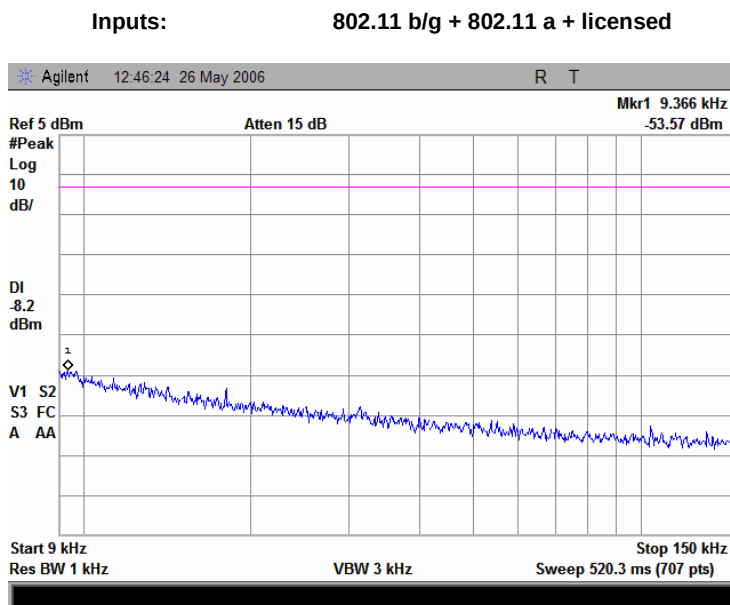


Plot 7.3.54 The highest emission level within the assigned band at high carrier frequency, OFDM modulation

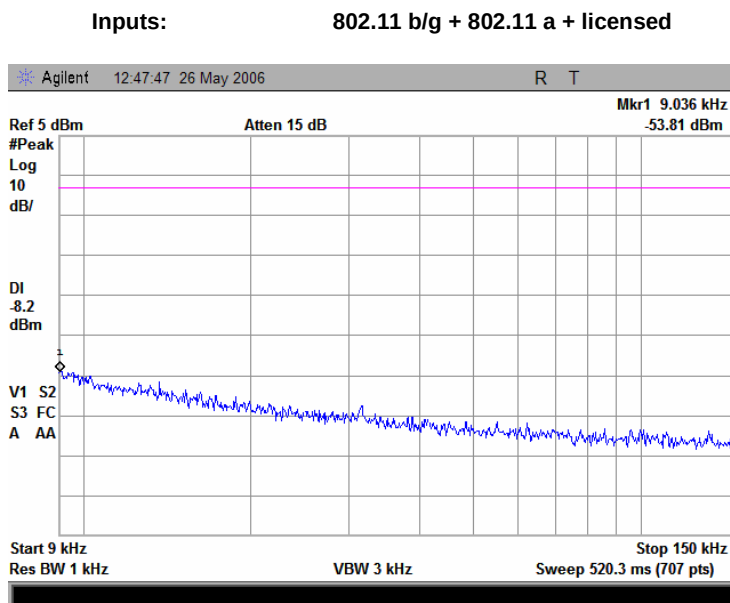


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.55 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, DSSS modulation

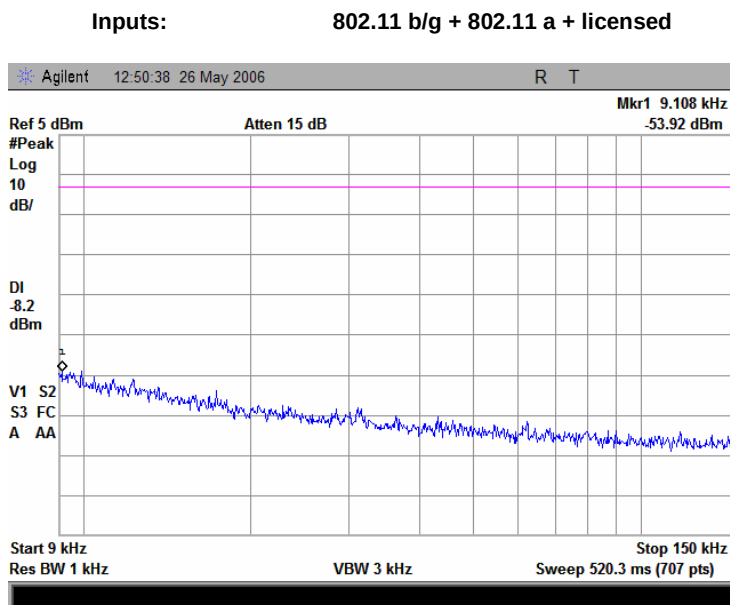


Plot 7.3.56 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, DSSS modulation

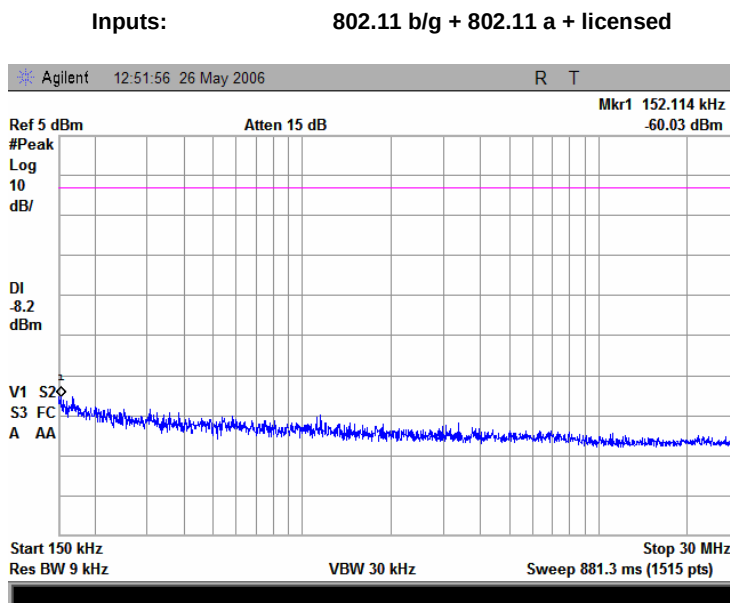


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.57 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, DSSS modulation

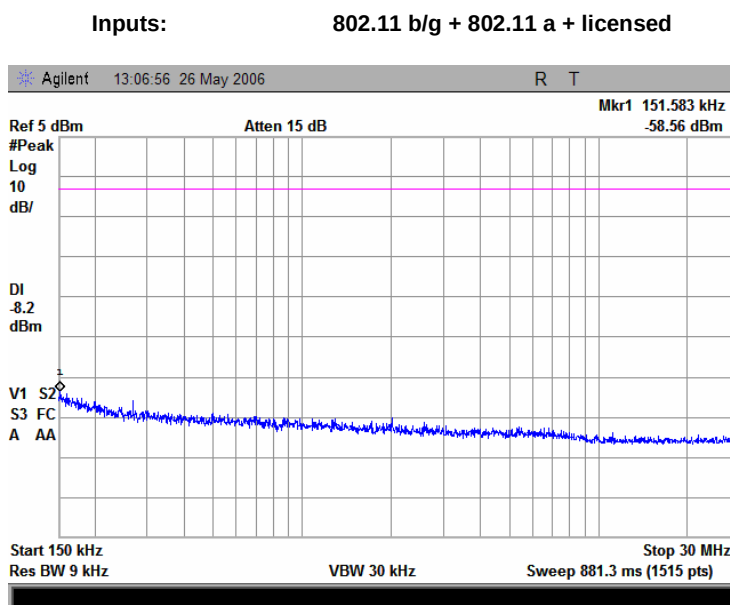


Plot 7.3.58 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, DSSS modulation

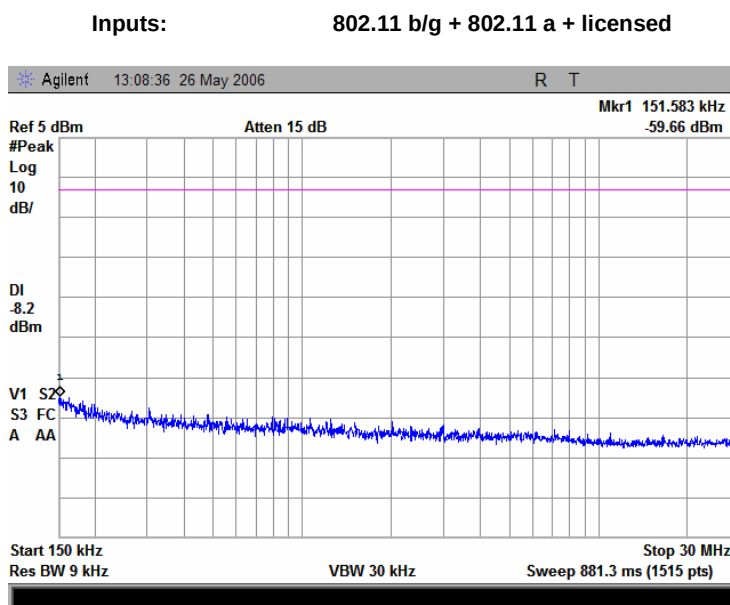


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.59 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, DSSS modulation

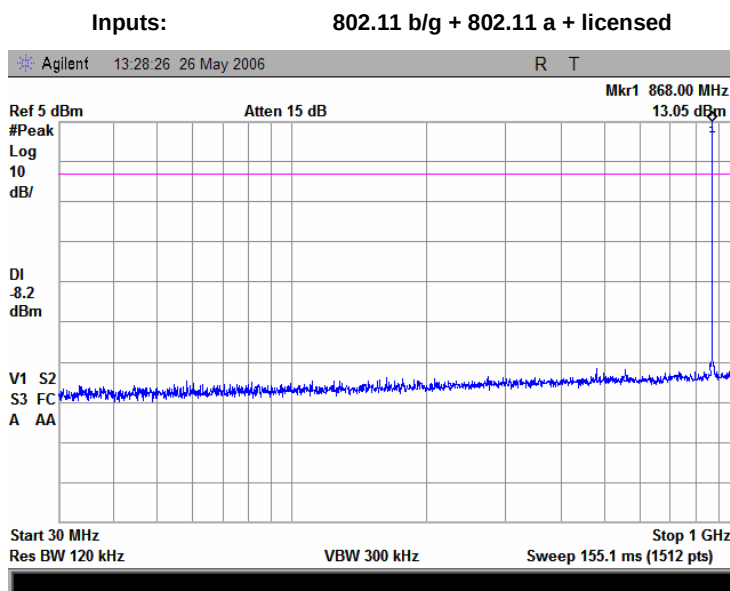


Plot 7.3.60 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, DSSS modulation



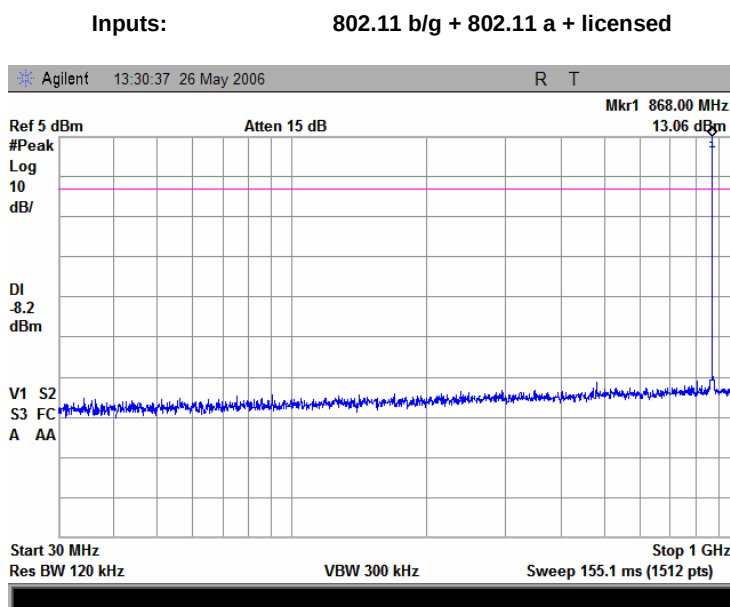
Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.61 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, DSSS modulation



Note: 868 MHz – intended emission of CELL module

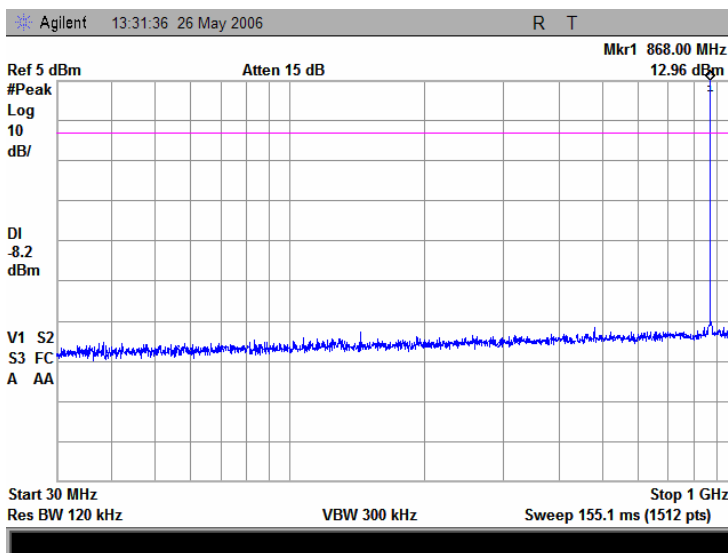
Plot 7.3.62 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, DSSS modulation



Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

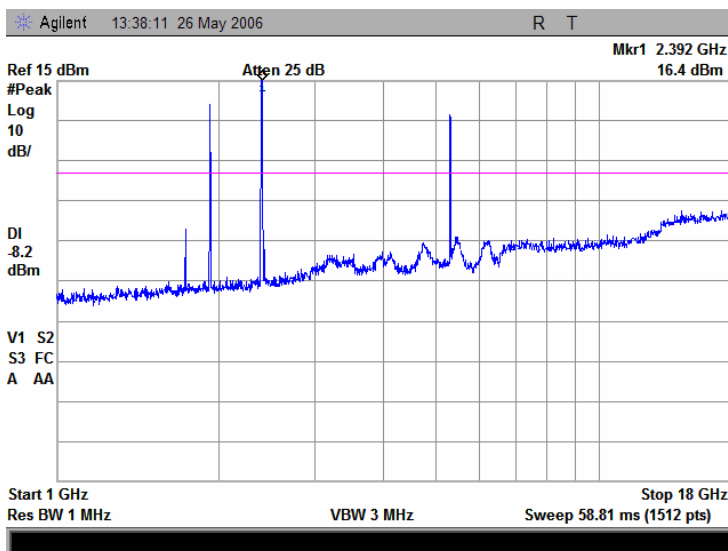
Plot 7.3.63 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.64 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, DSSS modulation

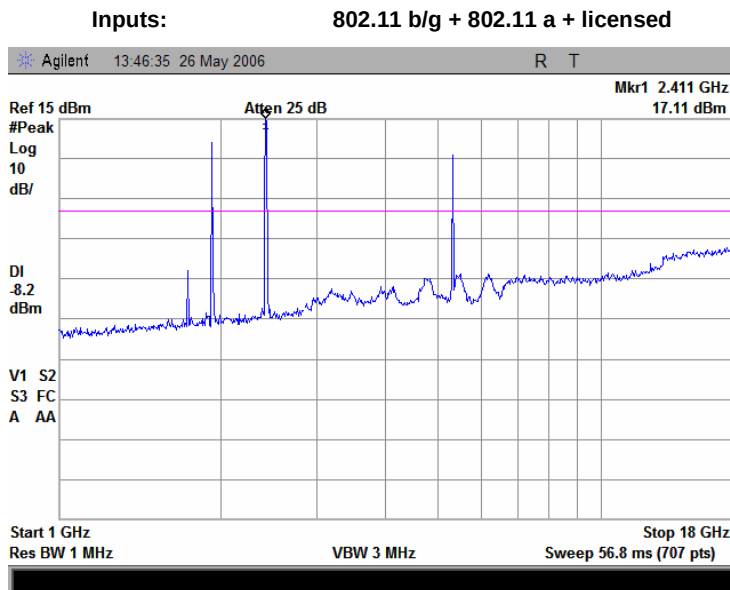
Inputs: 802.11 b/g + 802.11 a + licensed



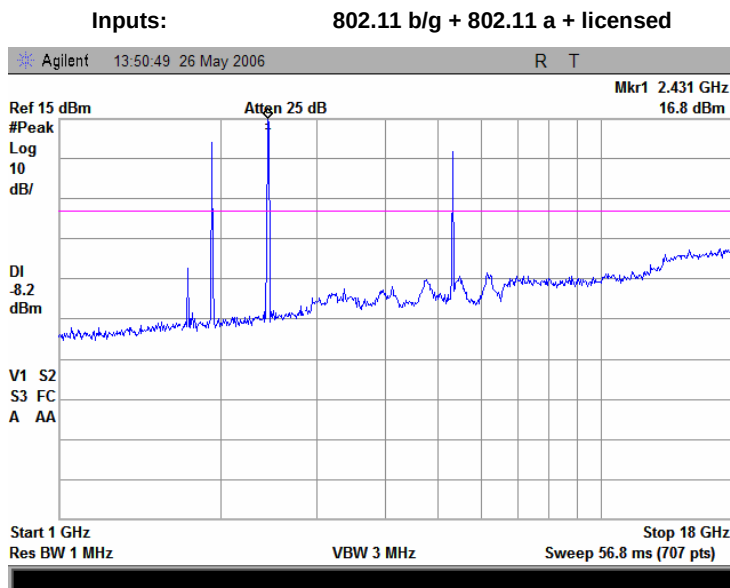
Note: 1.7 GHz second harmonic of CELL module,
1.9 GHz intended emission of PCS module,
2.4 GHz intended emission of 802.11b,
5.3 GHz intended emission of 802.11a.

Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.65 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, DSSS modulation

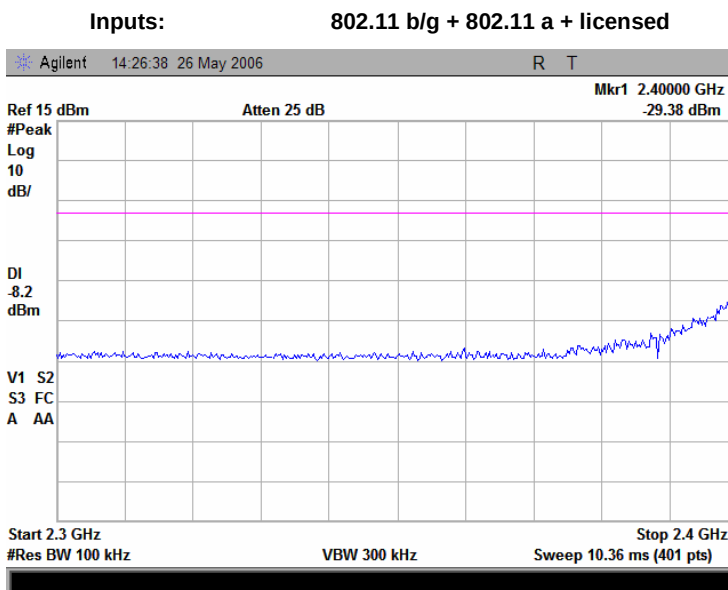


Plot 7.3.66 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, DSSS modulation

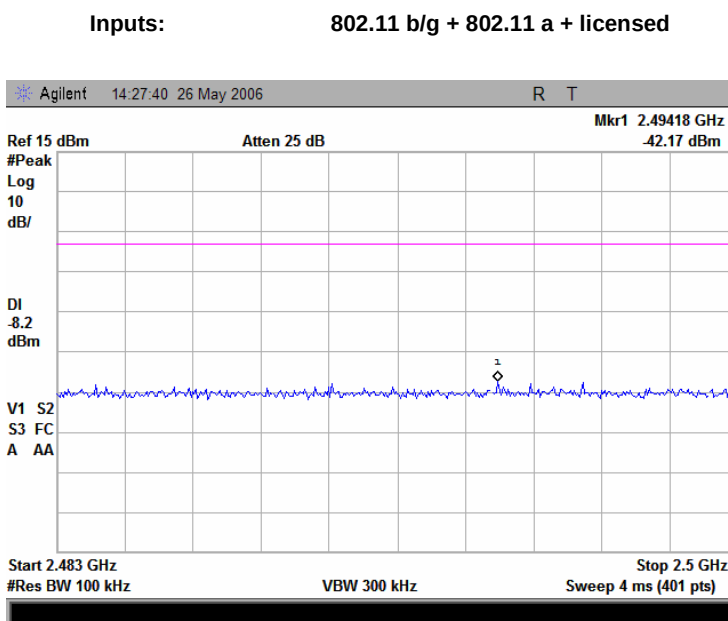


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.67 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, DSSS modulation

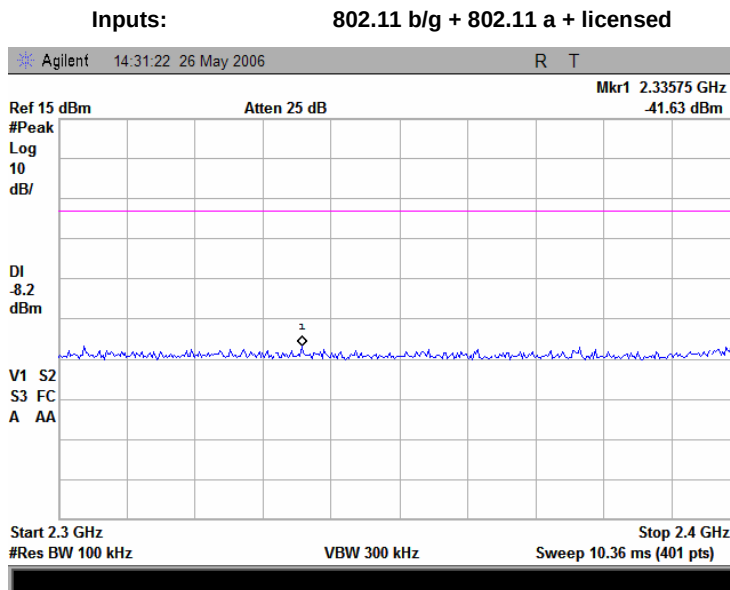


Plot 7.3.68 Spurious emission measurements in 2483.5 - 2500 MHz range at low carrier frequency, DSSS modulation

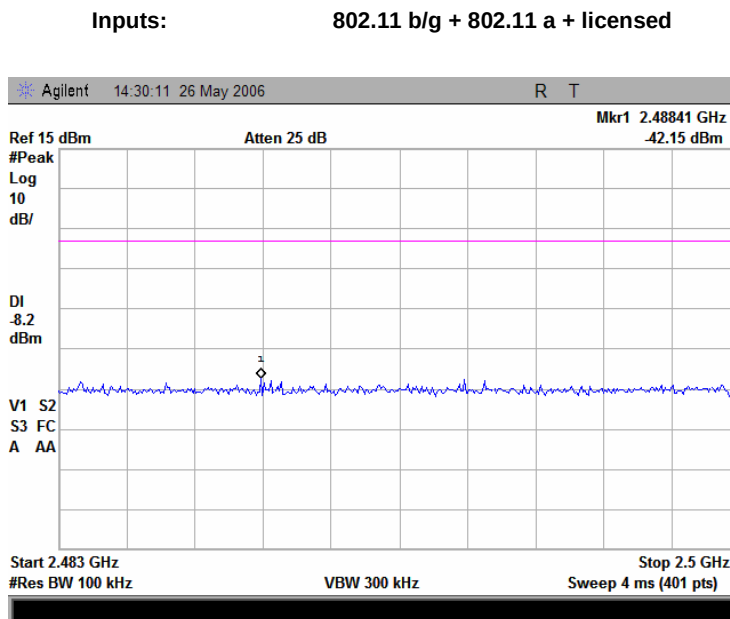


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.69 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, DSSS modulation



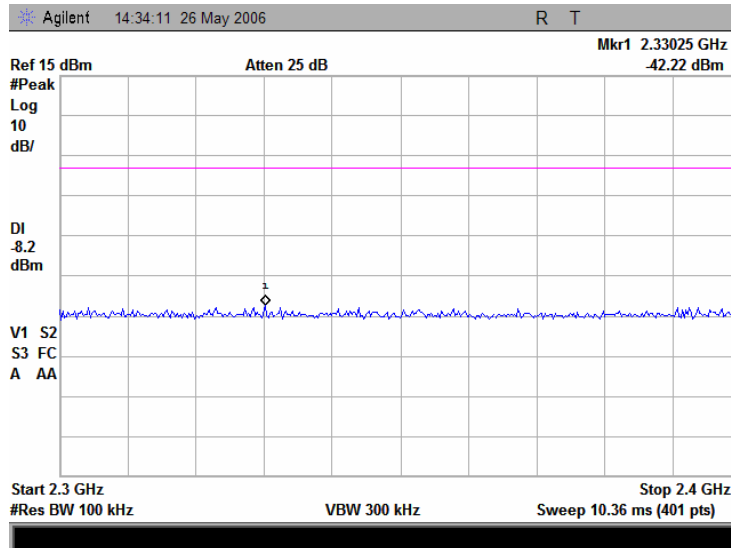
Plot 7.3.70 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, DSSS modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

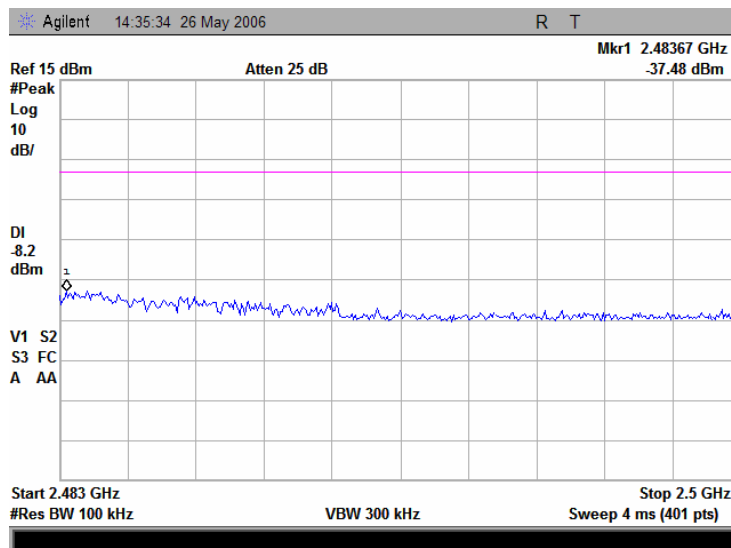
Plot 7.3.71 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.72 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, DSSS modulation

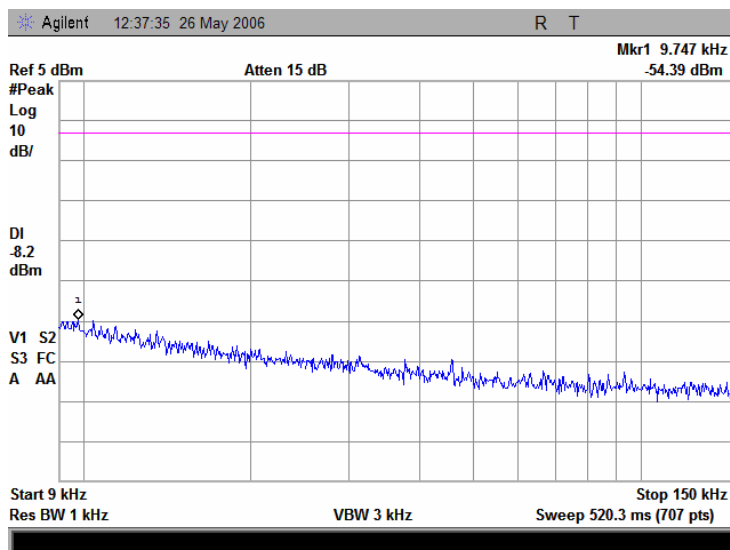
Inputs: 802.11 b/g + 802.11 a + licensed



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

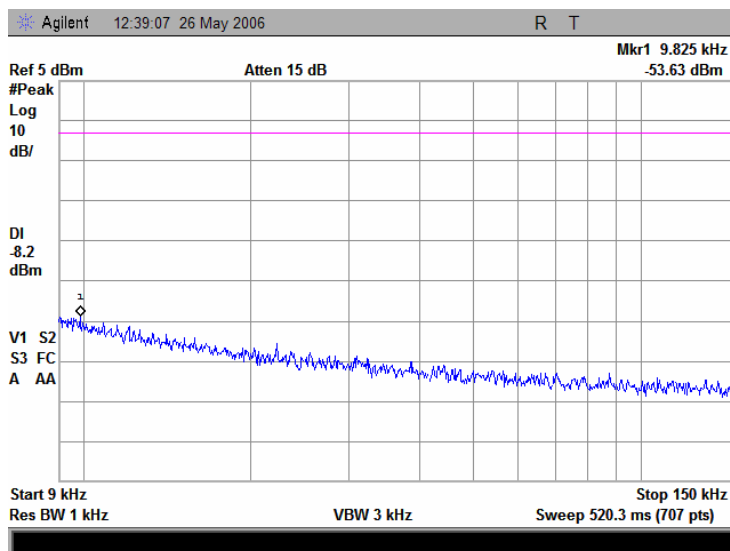
Plot 7.3.73 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed



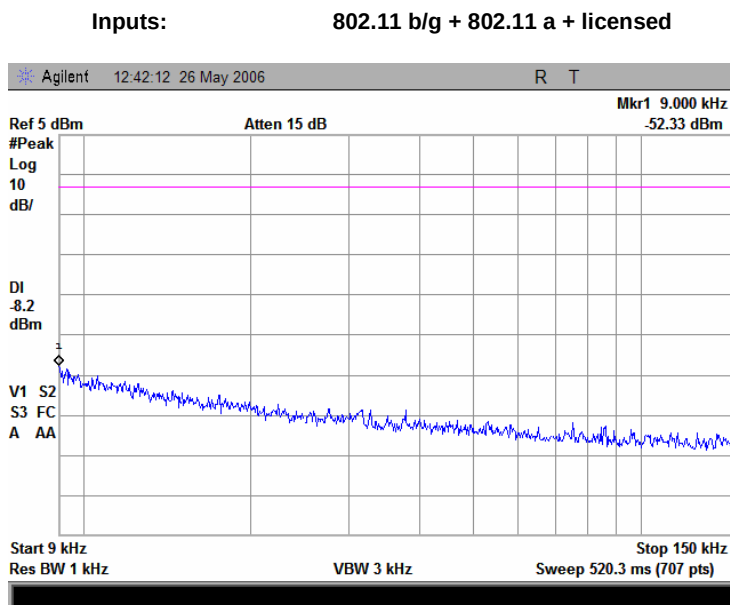
Plot 7.3.74 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed

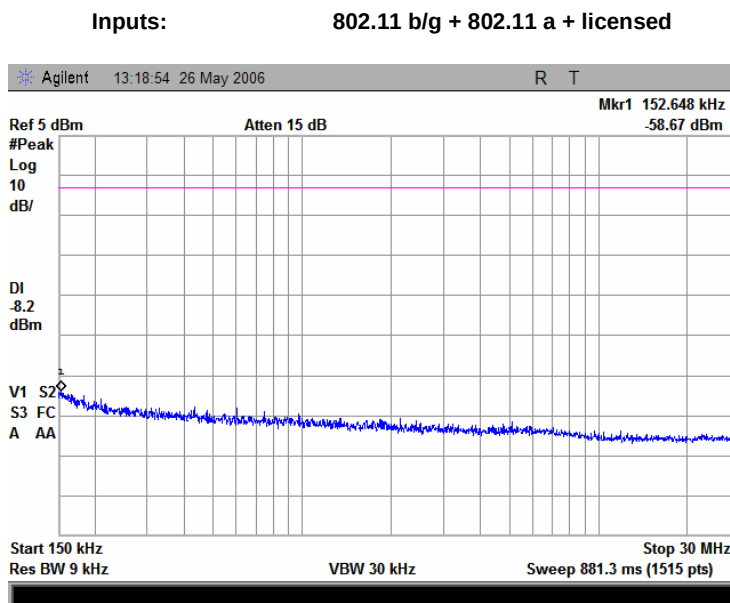


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.75 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, OFDM modulation

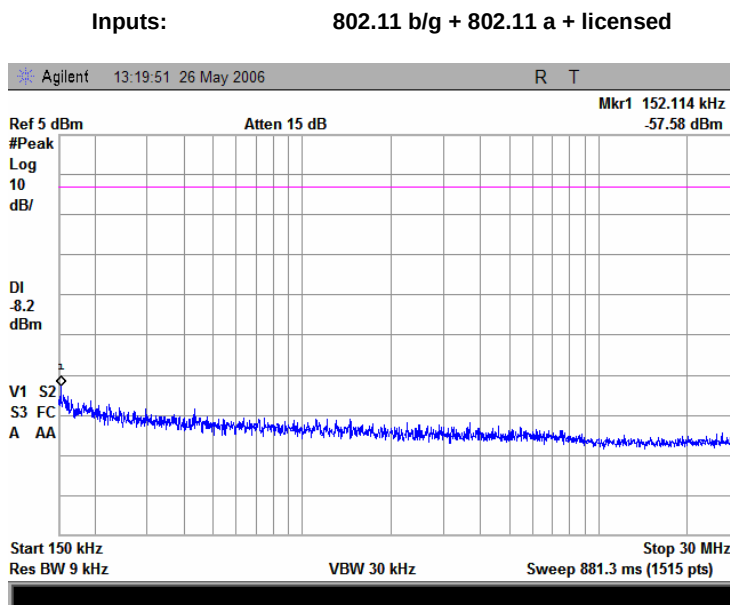


Plot 7.3.76 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, OFDM modulation

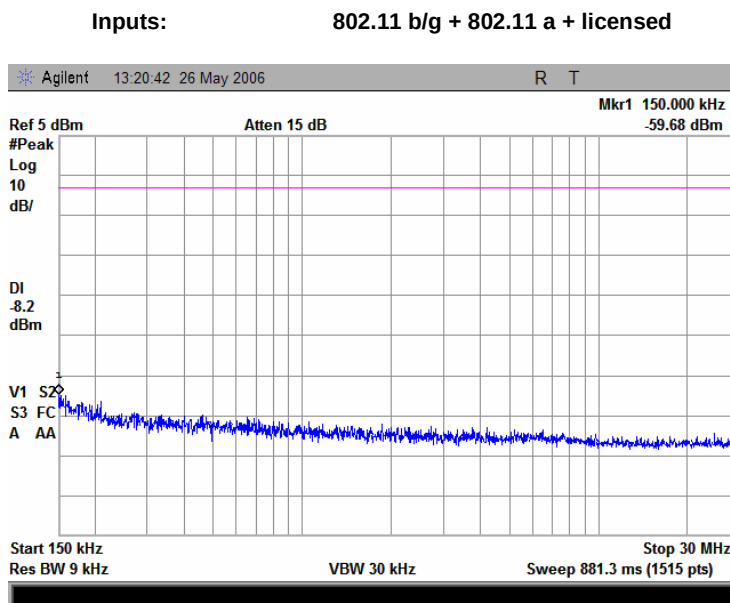


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.77 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, OFDM modulation

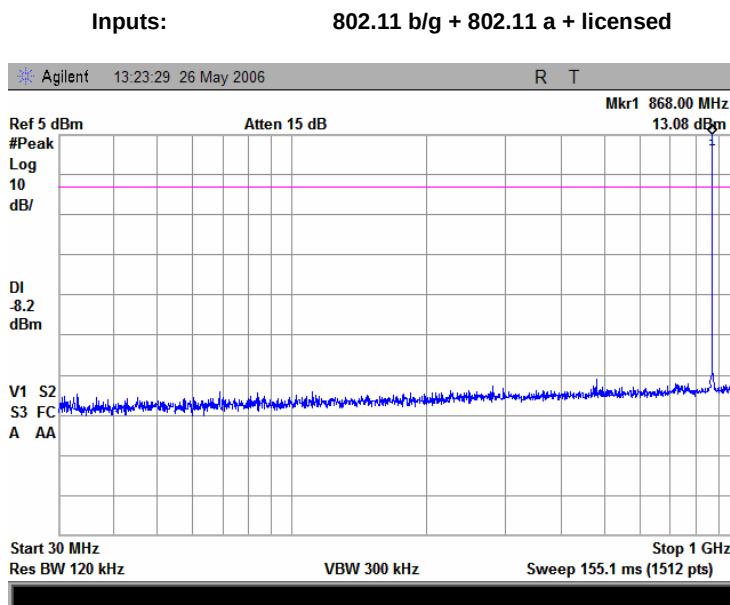


Plot 7.3.78 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, OFDM modulation

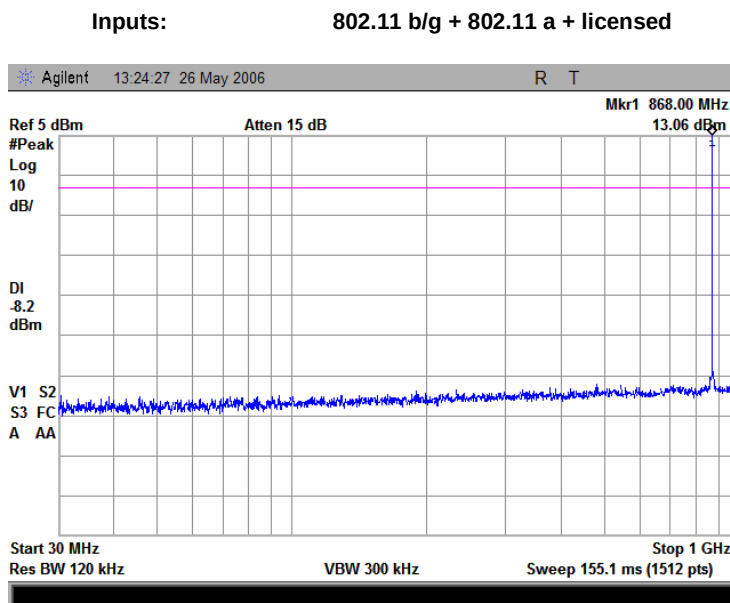


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.79 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, OFDM modulation

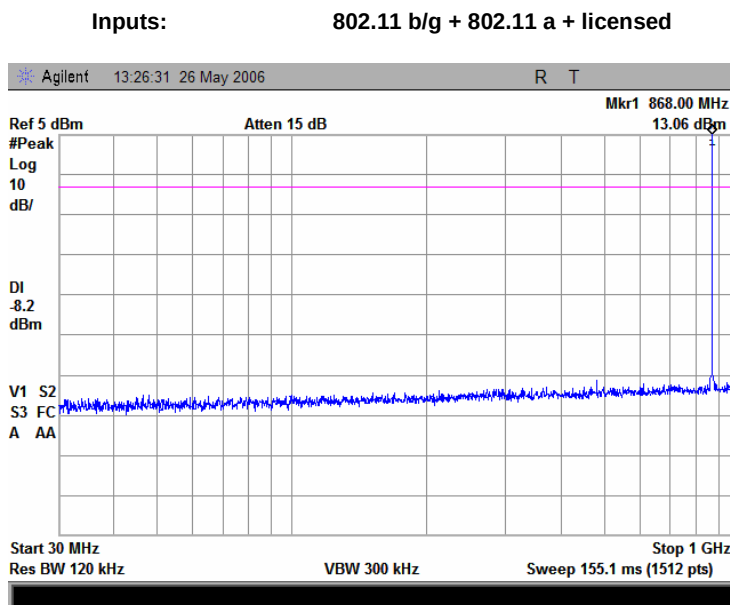


Plot 7.3.80 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, OFDM modulation

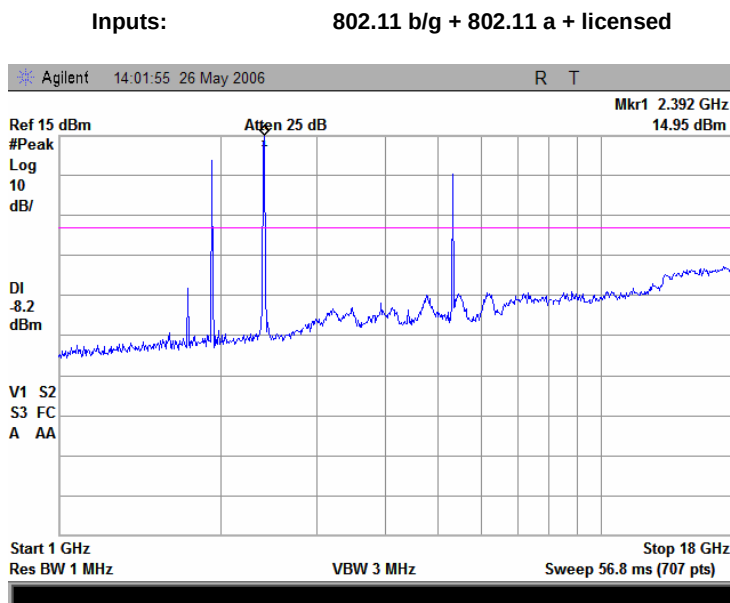


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.81 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, OFDM modulation

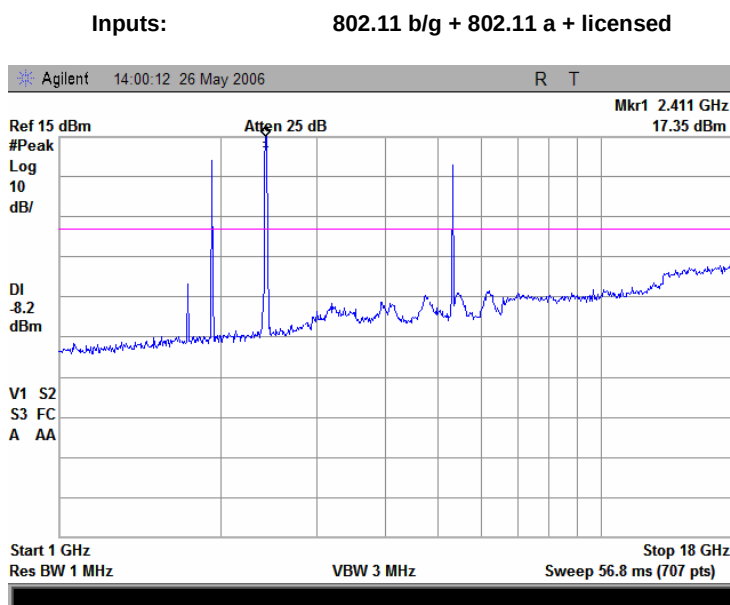


Plot 7.3.82 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, OFDM modulation

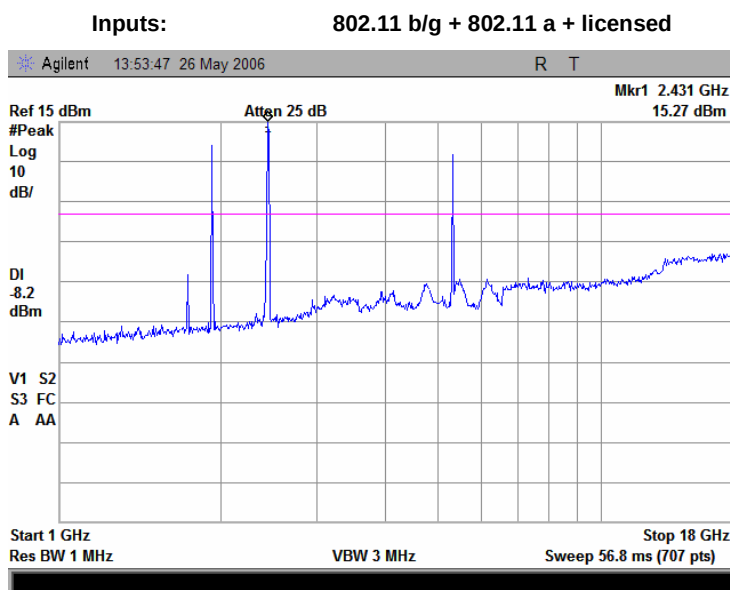


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.83 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, OFDM modulation



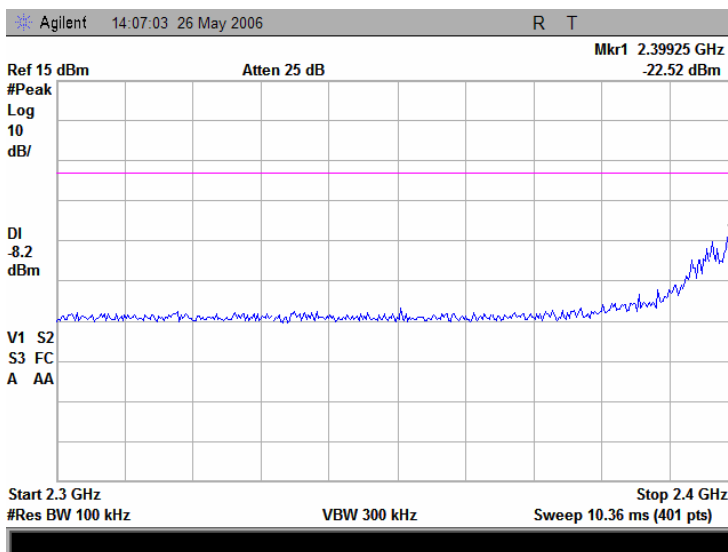
Plot 7.3.84 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, OFDM modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

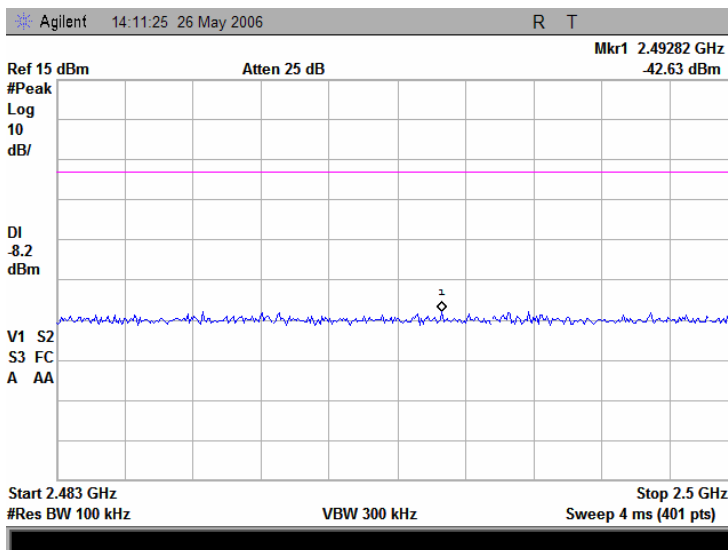
Plot 7.3.85 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed



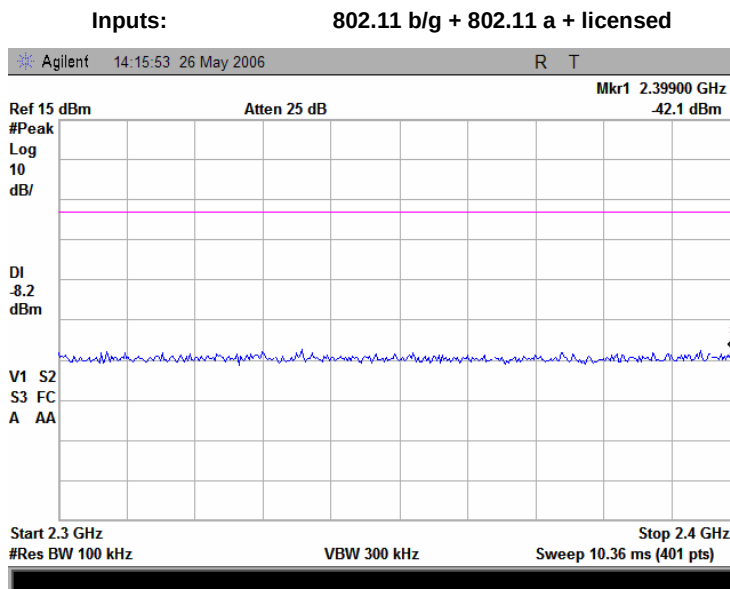
Plot 7.3.86 Spurious emission measurements in 2483.5 - 3000 MHz range at low carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed

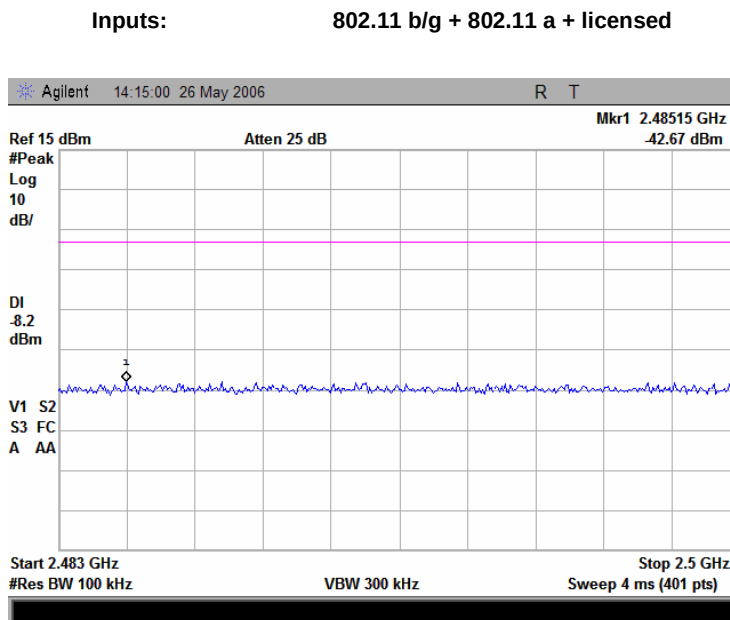


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

Plot 7.3.87 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, OFDM modulation



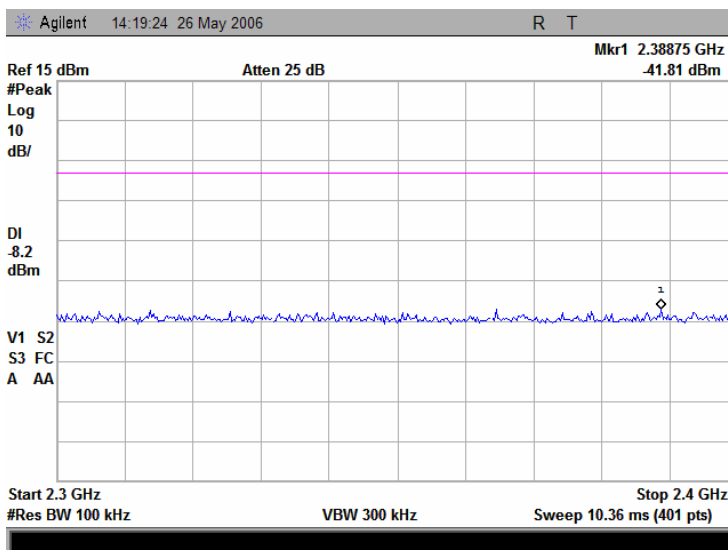
Plot 7.3.88 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, OFDM modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

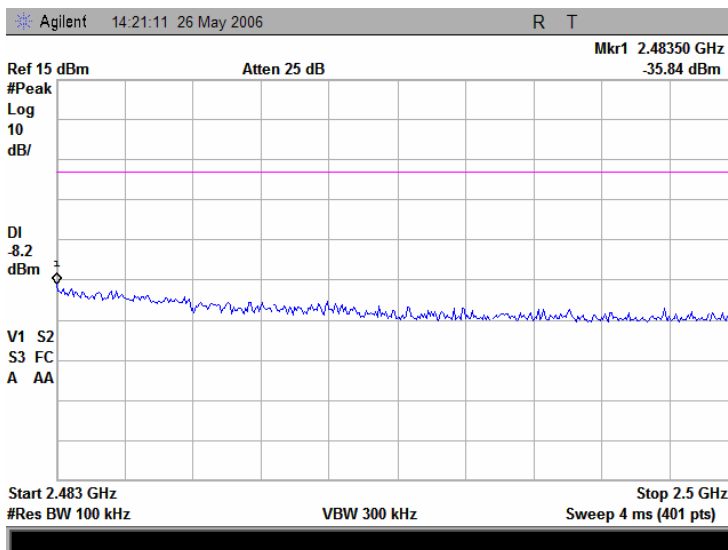
Plot 7.3.89 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.90 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, OFDM modulation

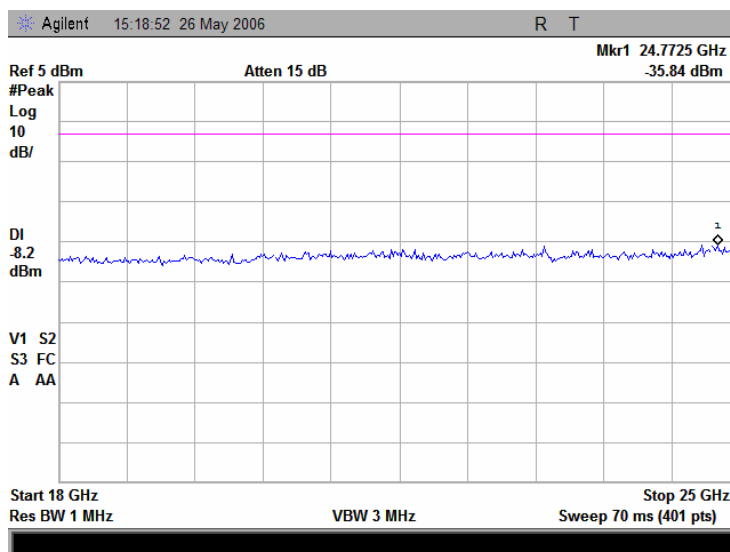
Inputs: 802.11 b/g + 802.11 a + licensed



Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/26/2006 4:40:02 PM	
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

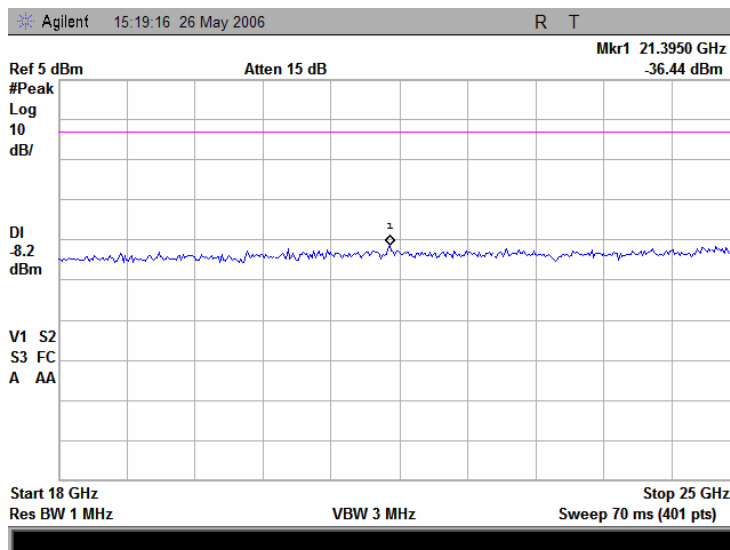
Plot 7.3.91 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.92 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, DSSS modulation

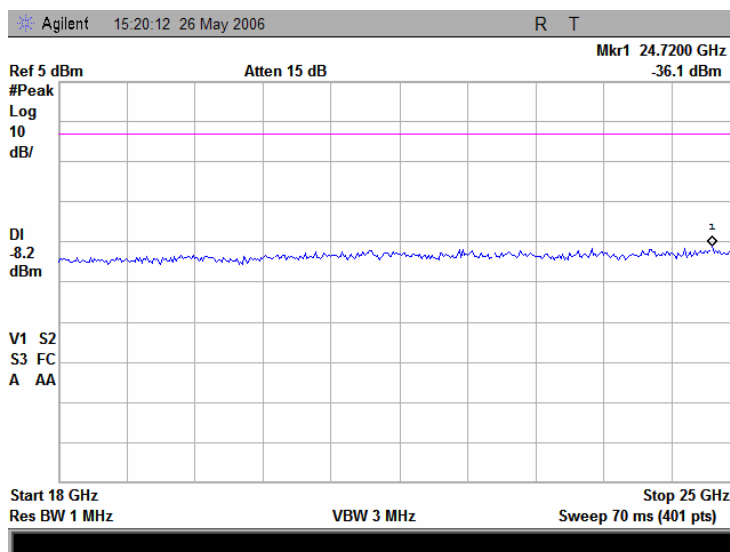
Inputs: 802.11 b/g + 802.11 a + licensed



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

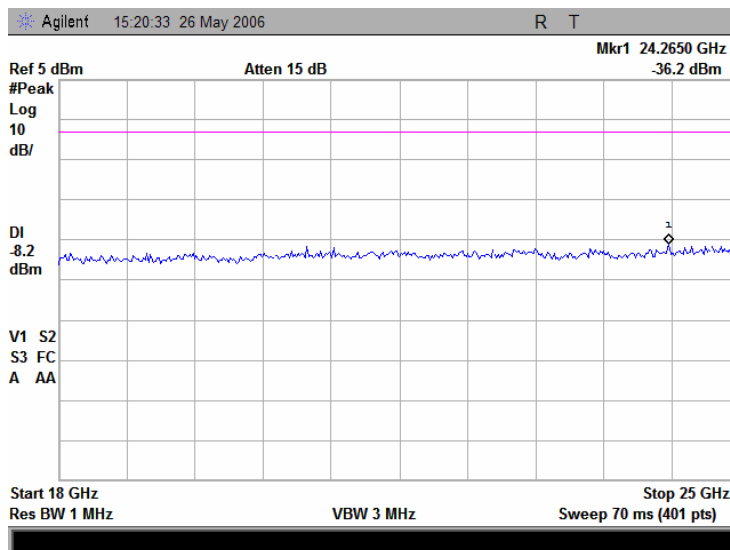
Plot 7.3.93 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.94 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, OFDM modulation

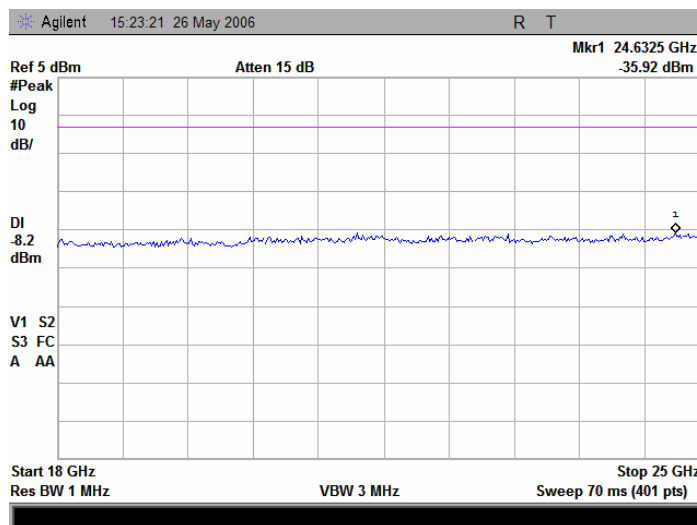
Inputs: 802.11 b/g + 802.11 a + licensed



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/26/2006 4:40:02 PM		
Temperature: 22 °C	Air Pressure: 1012 hPa	Relative Humidity: 45 %	Power Supply: 120 VAC
Remarks:			

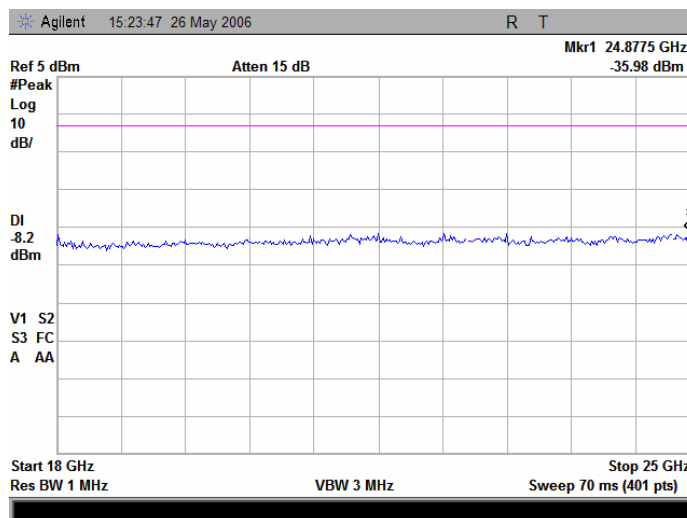
Plot 7.3.95 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Plot 7.3.96 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g + 802.11 a + licensed



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Table 7.3.3 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 2400 – 2483.5 MHz
INVESTIGATED FREQUENCY RANGE: 0.009 – 25000 MHz
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 100 kHz
VIDEO BANDWIDTH: 300 kHz
MODULATION: DSSS / OFDM
MODULATING SIGNAL: PRBS
BIT RATE: 1 / 6 Mbps
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
INPUTS: 802.11 b/g

Frequency, MHz	Spurious emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
Modulation DSSS						
Low carrier frequency						
2399.500	-33.47	8.04	41.51	20.0	21.51	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
	-43.76	7.22	50.98	20.0	30.98	Pass
Modulation OFDM						
Low carrier frequency						
	-27.4	7.48	34.88	20.0	14.88	Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
	-35.67	7.41	43.08	20.0	23.08	Pass

*- Margin = Attenuation below carrier – specification limit.

Reference numbers of test equipment used

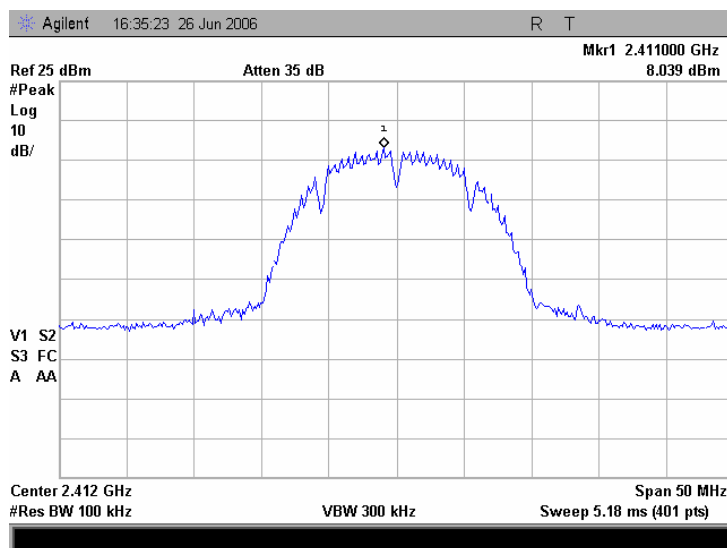
HL 1650	HL 2254	HL 2524	HL 2780	HL 2867			
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Full description is given in Appendix A.

Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 7:00:19 PM	
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

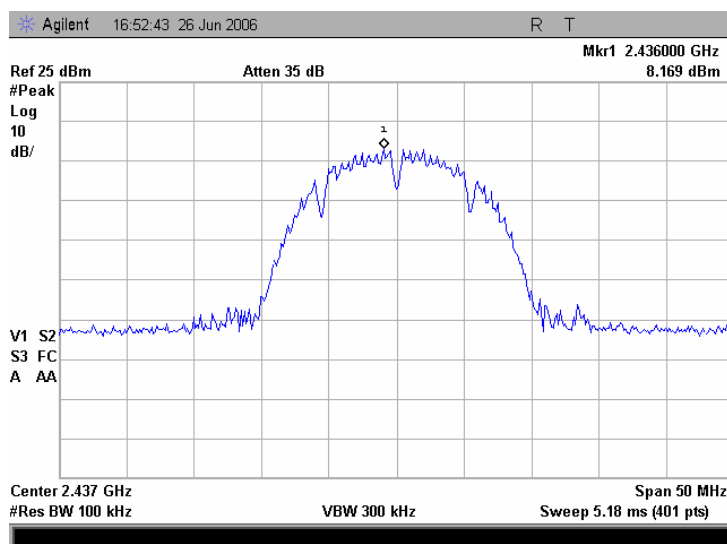
Plot 7.3.97 The highest emission level within the assigned band at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.98 The highest emission level within the assigned band at mid carrier frequency, DSSS modulation

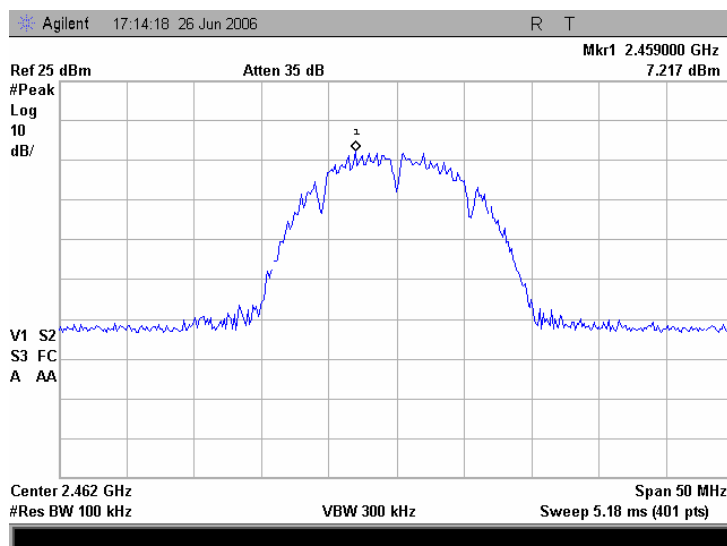
Inputs: 802.11 b/g



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

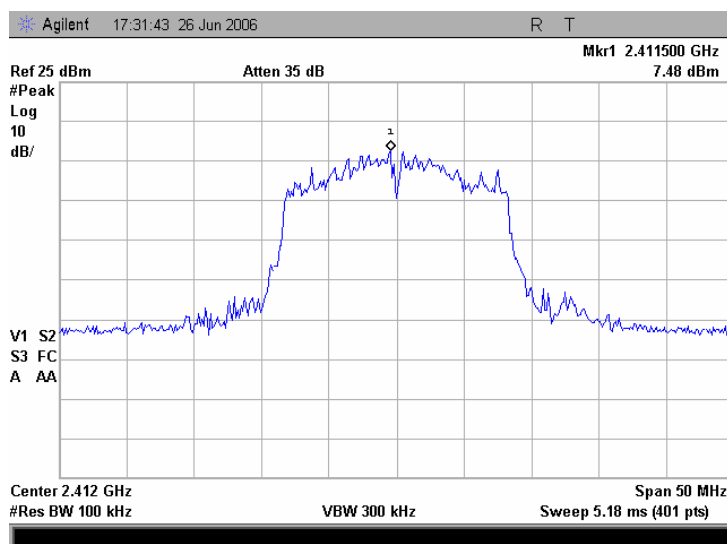
Plot 7.3.99 The highest emission level within the assigned band at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.100 The highest emission level within the assigned band at low carrier frequency, OFDM modulation

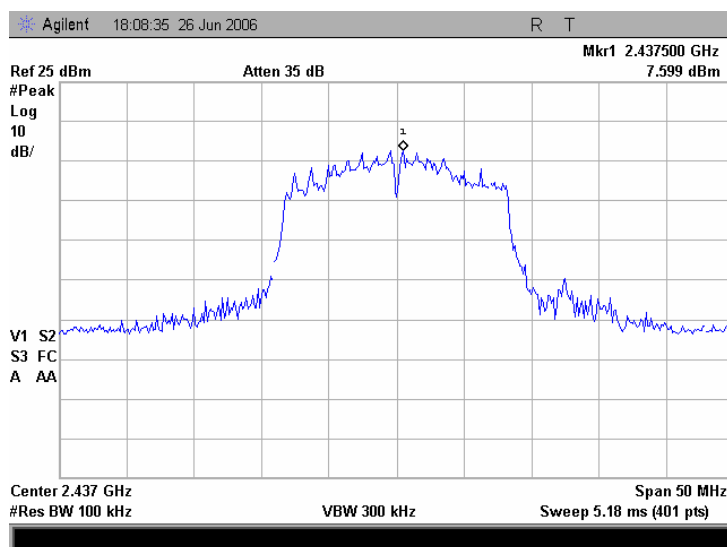
Inputs: 802.11 b/g



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

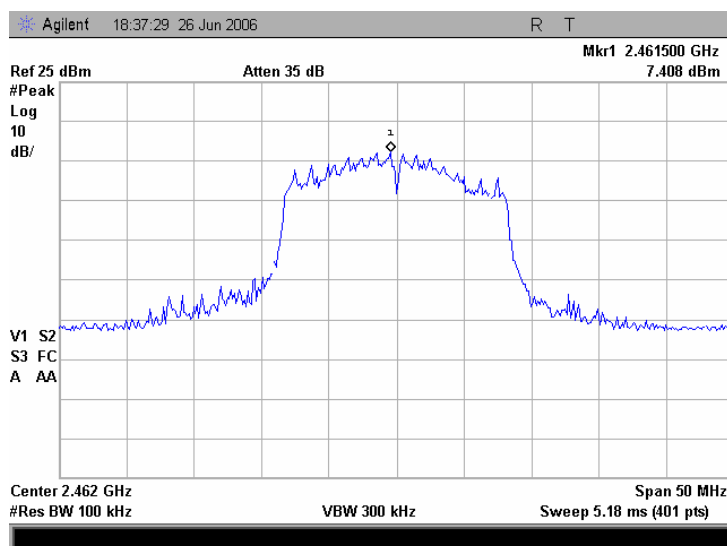
Plot 7.3.101 The highest emission level within the assigned band at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g



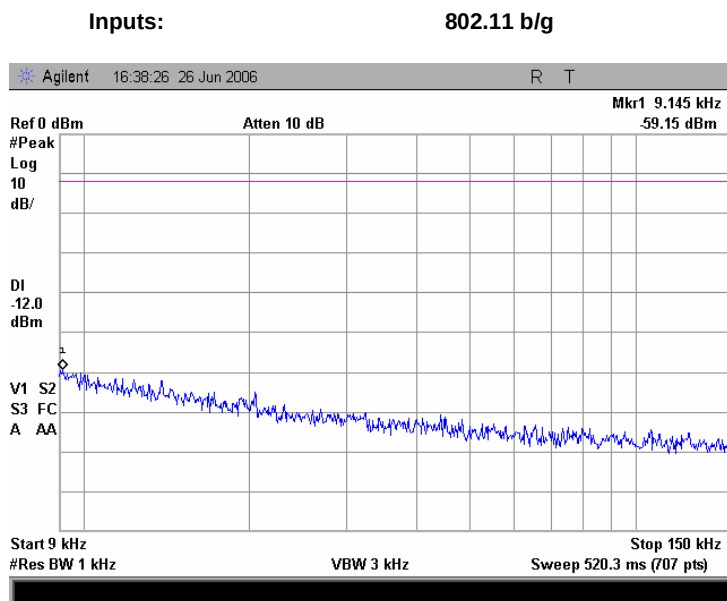
Plot 7.3.102 The highest emission level within the assigned band at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g

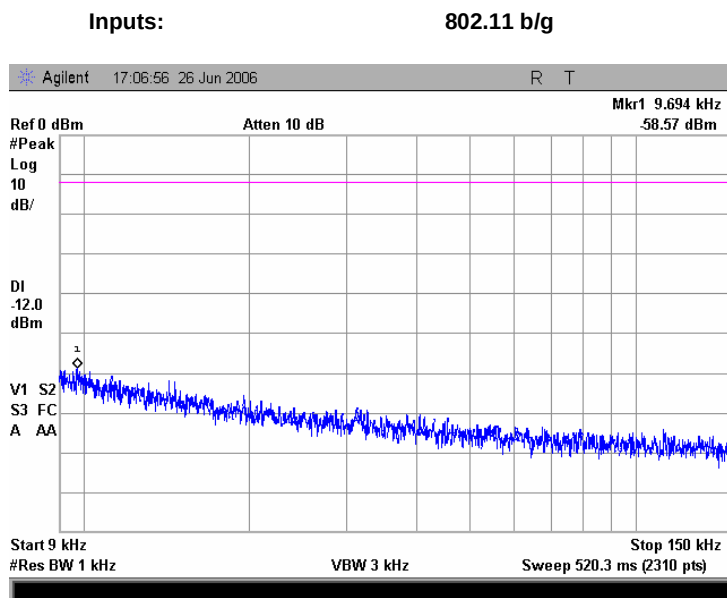


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.103 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, DSSS modulation

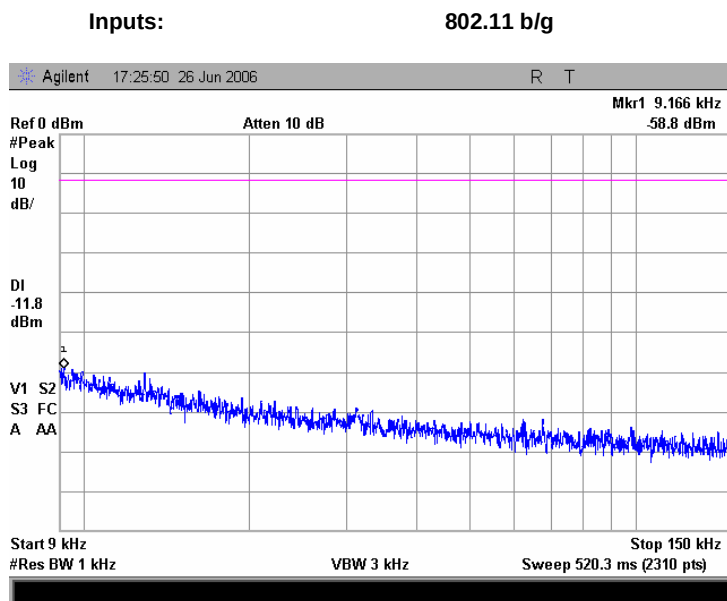


Plot 7.3.104 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, DSSS modulation

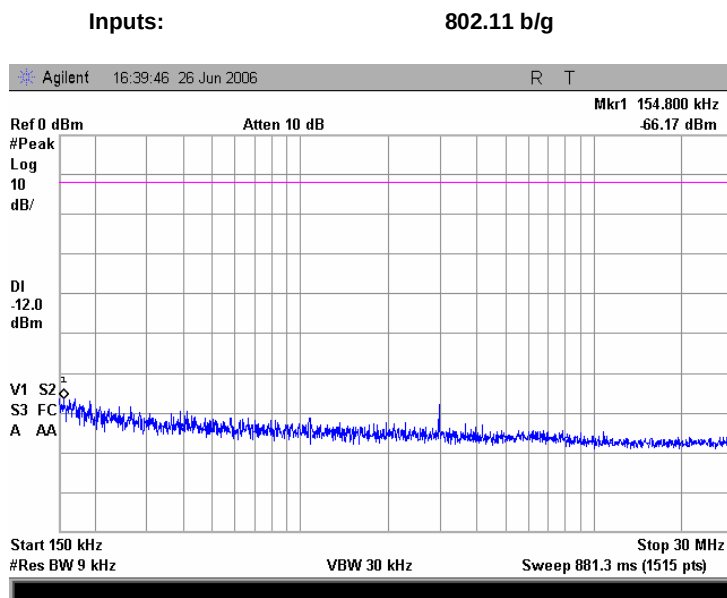


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.105 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, DSSS modulation



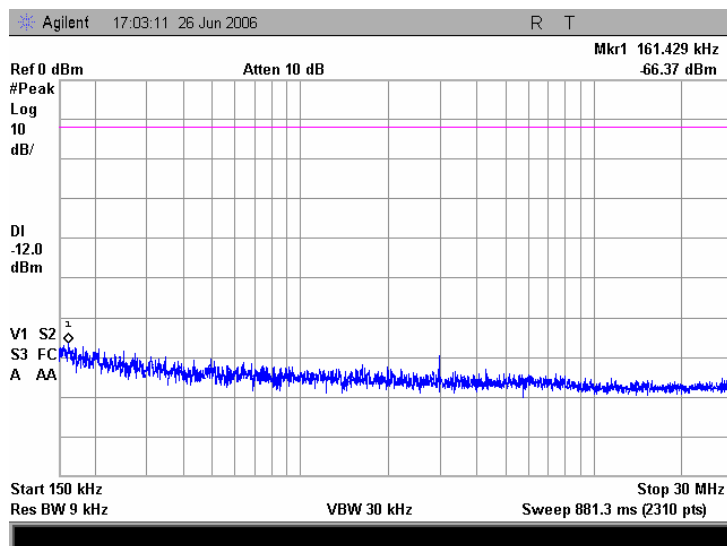
Plot 7.3.106 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, DSSS modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

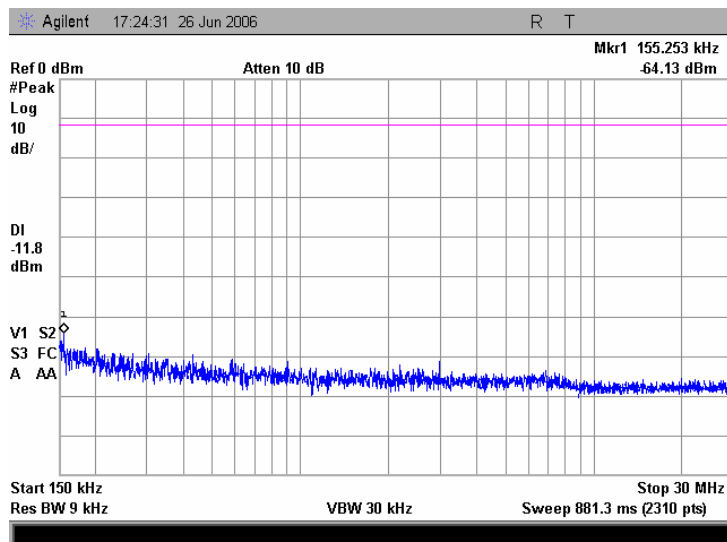
Plot 7.3.107 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, DSSS modulation

Inputs: 802.11 b/g



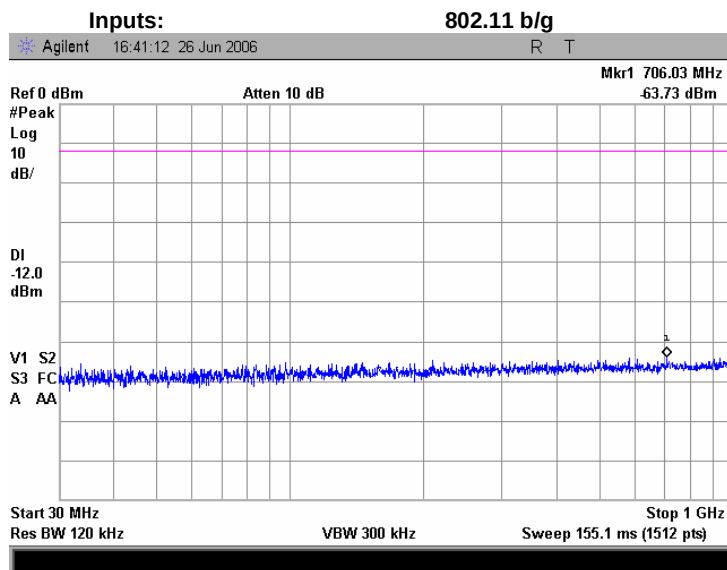
Plot 7.3.108 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g

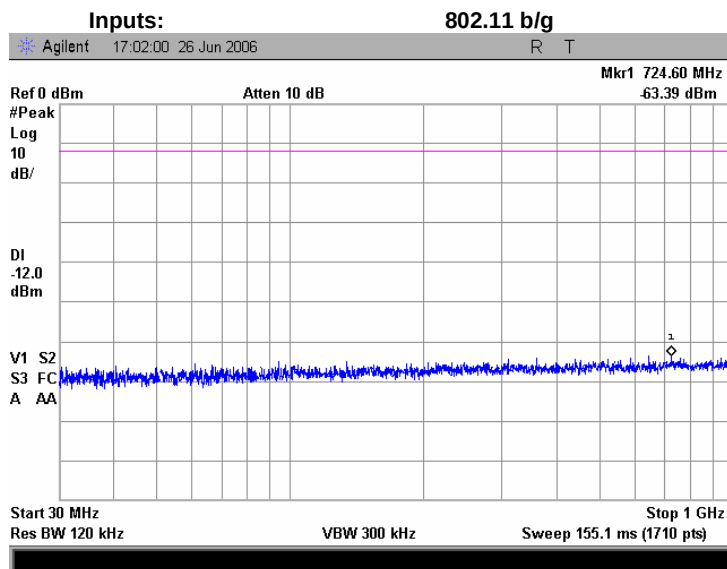


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.109 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, DSSS modulation



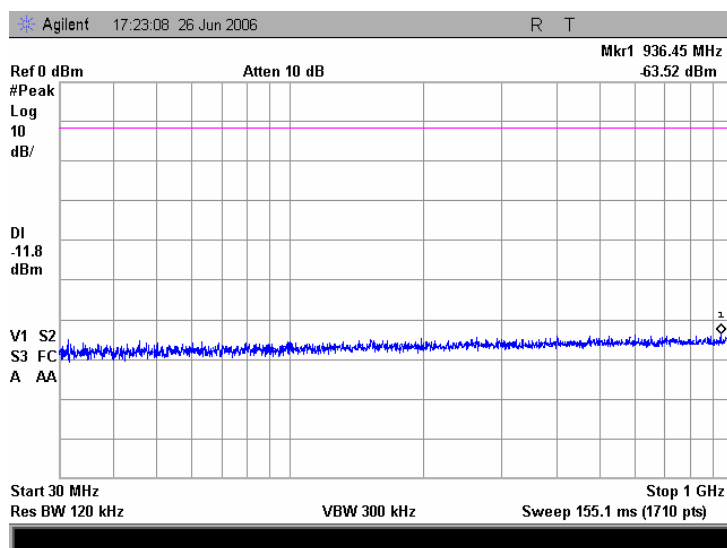
Plot 7.3.110 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, DSSS modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

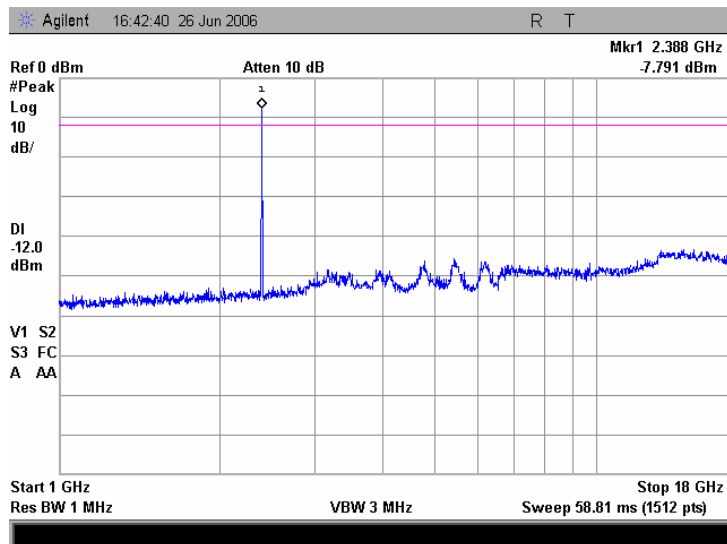
Plot 7.3.111 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.112 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g

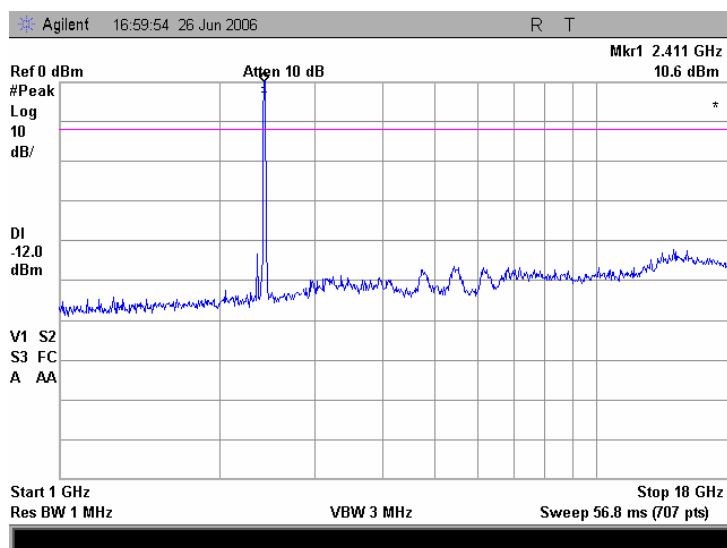


Note: 2.4 GHz intended emission of 802.11b.

Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

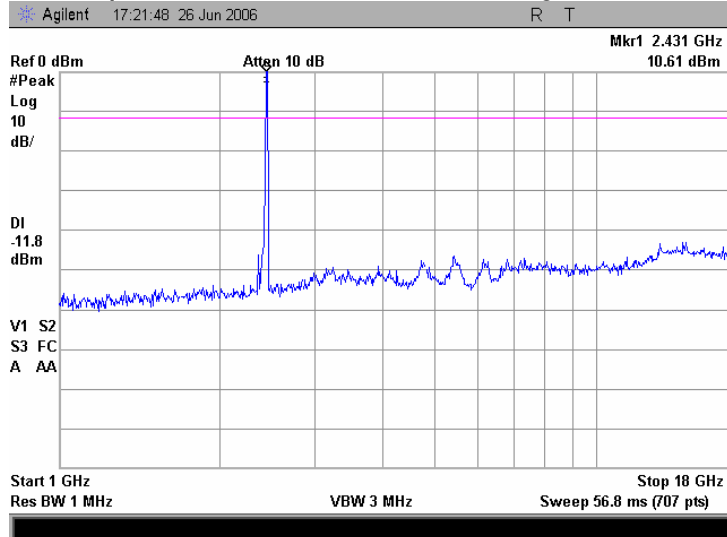
Plot 7.3.113 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.114 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, DSSS modulation

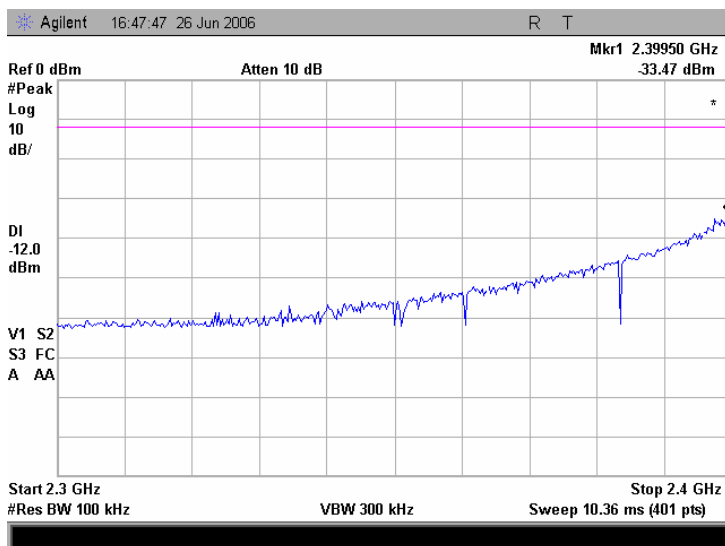
Inputs: 802.11 b/g



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

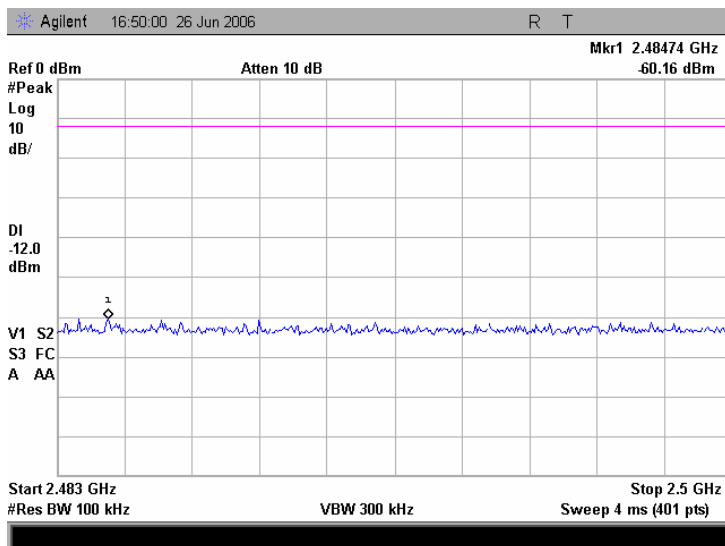
Plot 7.3.115 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g



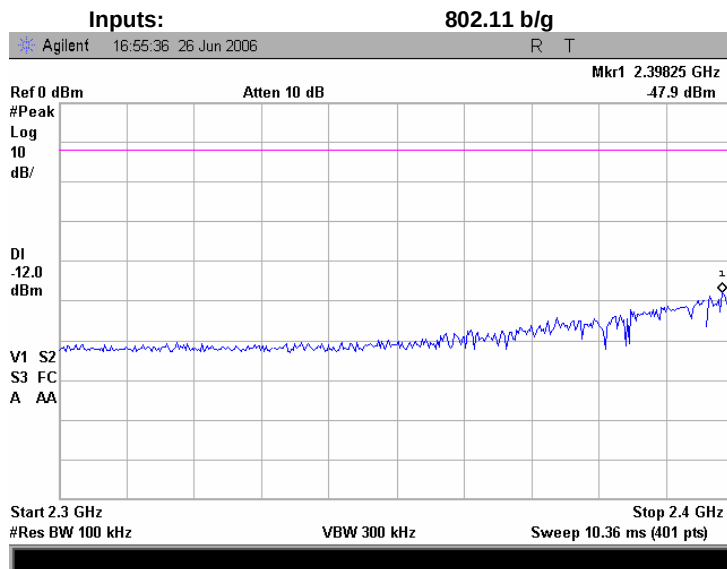
Plot 7.3.116 Spurious emission measurements in 2483.5 - 2500 MHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g

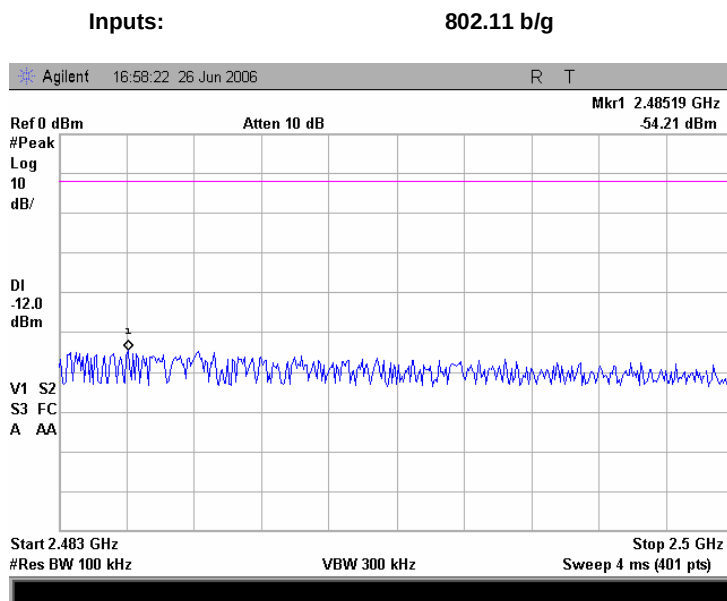


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.117 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, DSSS modulation

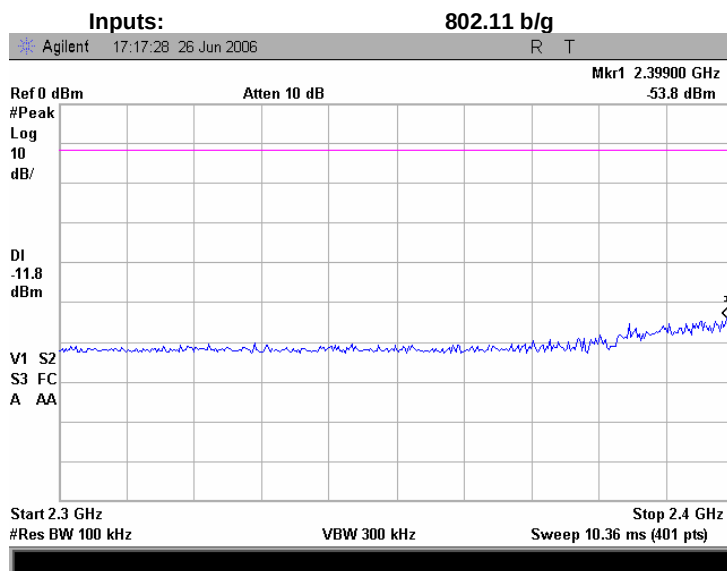


Plot 7.3.118 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, DSSS modulation

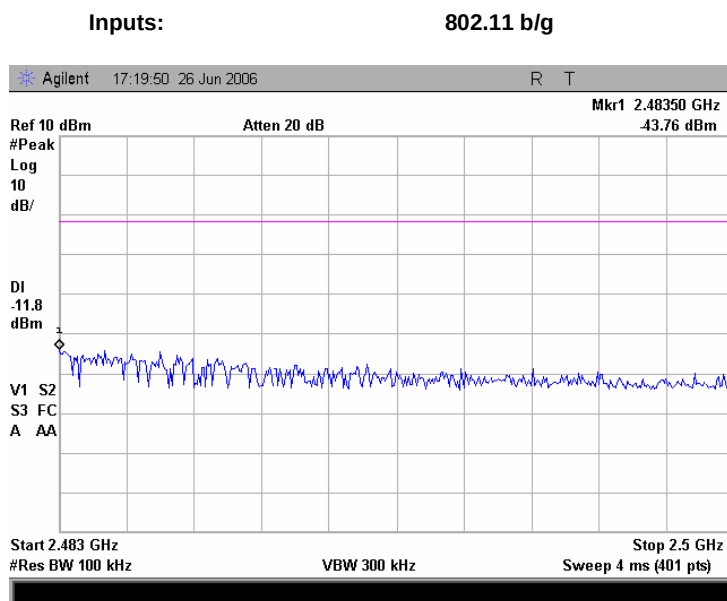


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.119 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, DSSS modulation

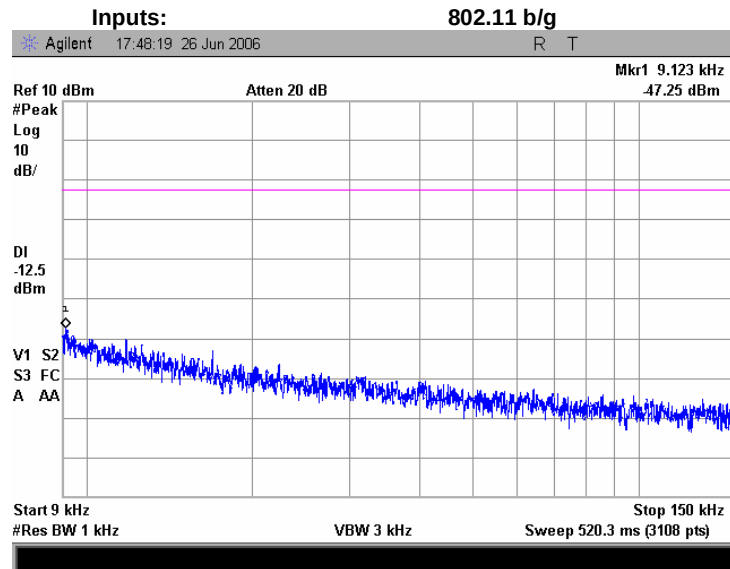


Plot 7.3.120 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, DSSS modulation

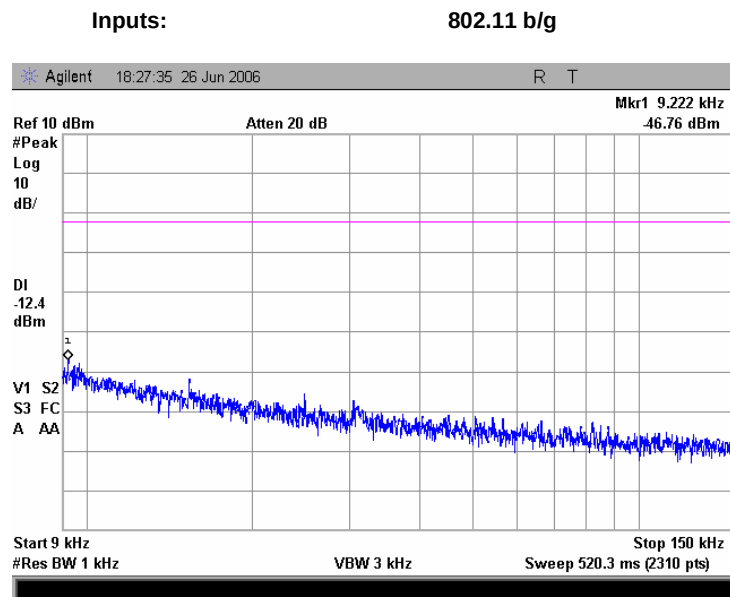


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.121 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency, OFDM modulation



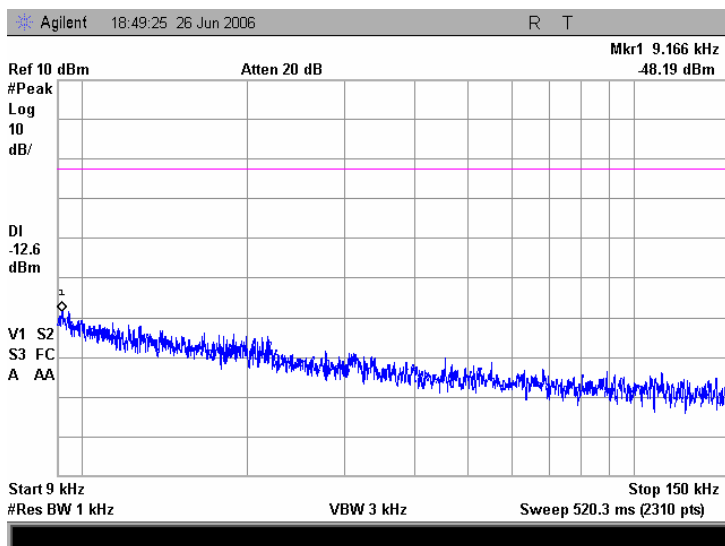
Plot 7.3.122 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency, OFDM modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

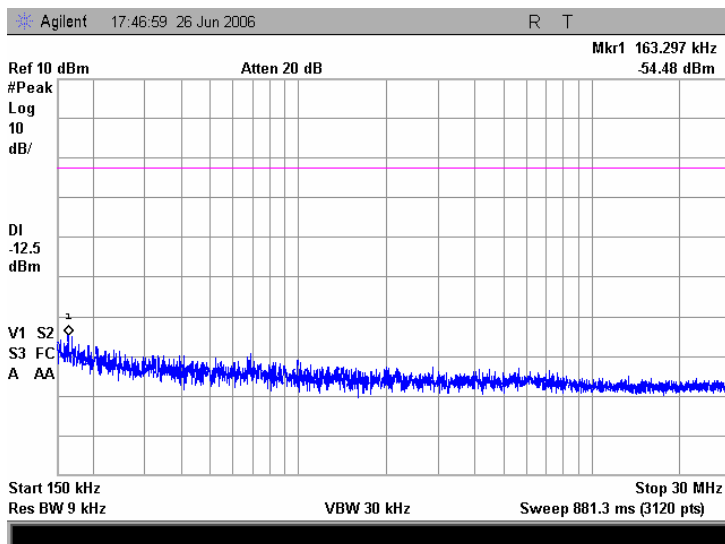
Plot 7.3.123 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g



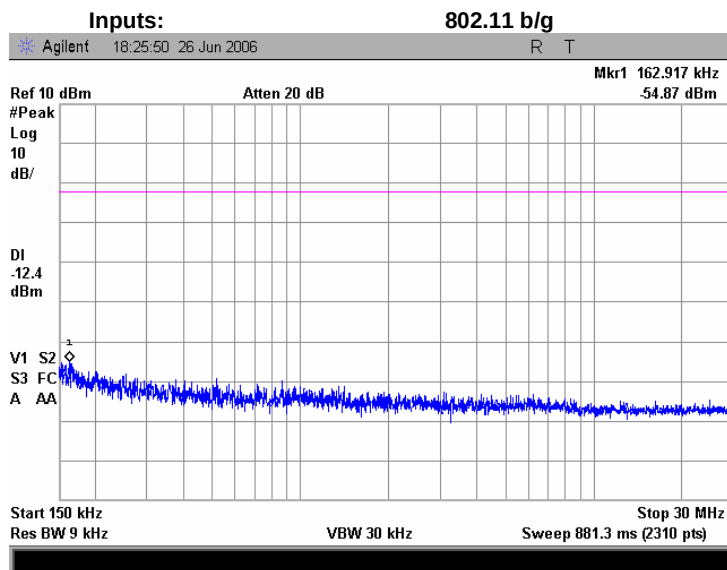
Plot 7.3.124 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency, OFDM modulation

Inputs: 802.11 b/g

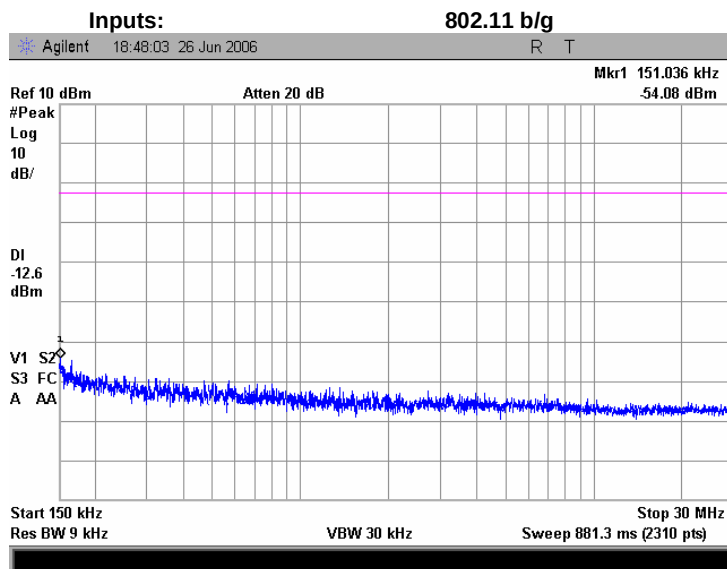


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.125 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency, OFDM modulation

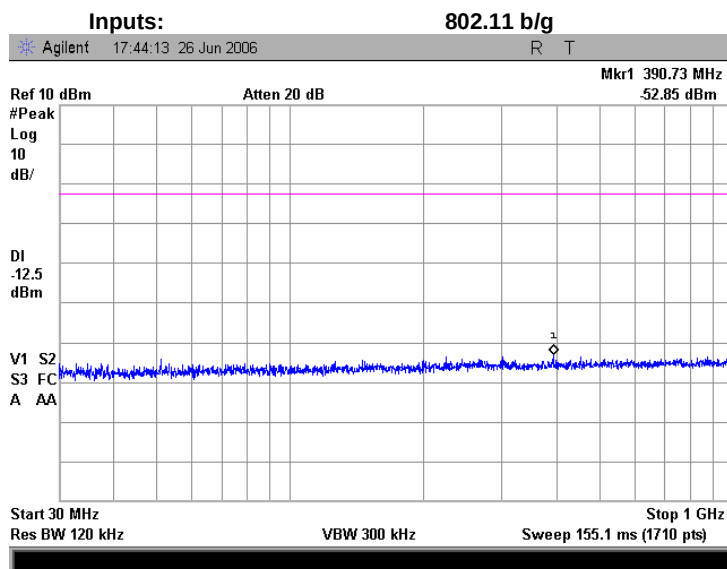


Plot 7.3.126 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency, OFDM modulation

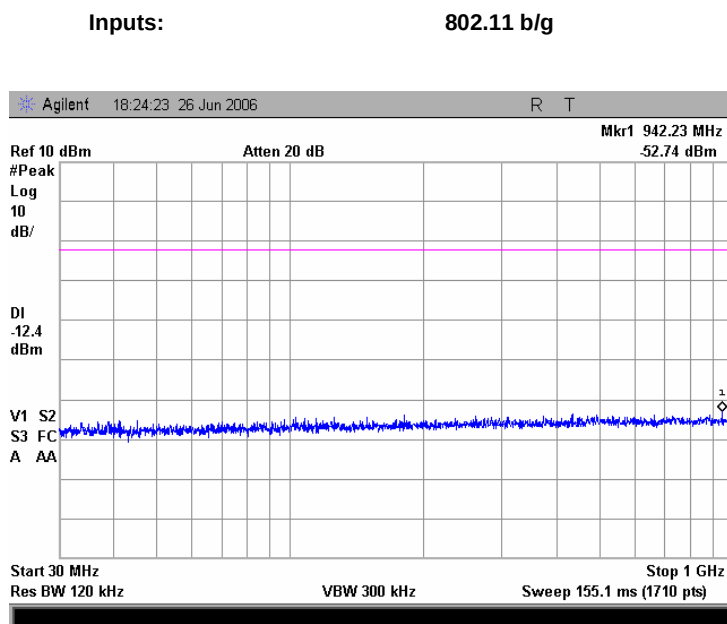


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.127 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency, OFDM modulation

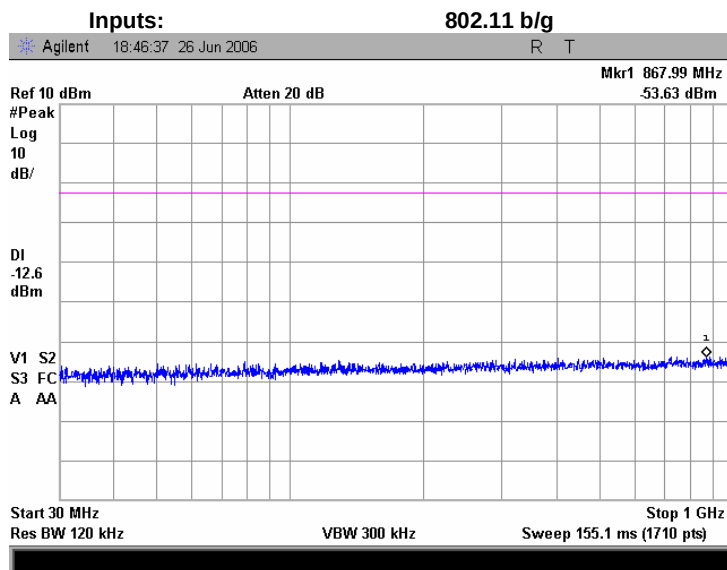


Plot 7.3.128 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency, OFDM modulation

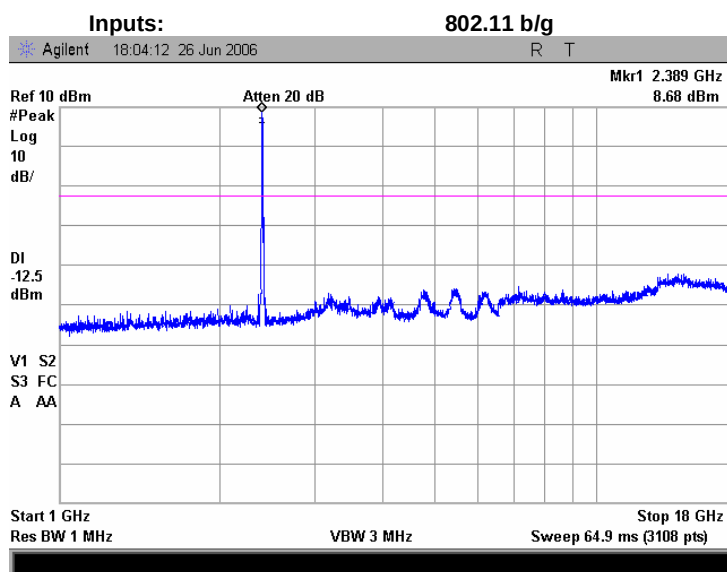


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.129 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency, OFDM modulation

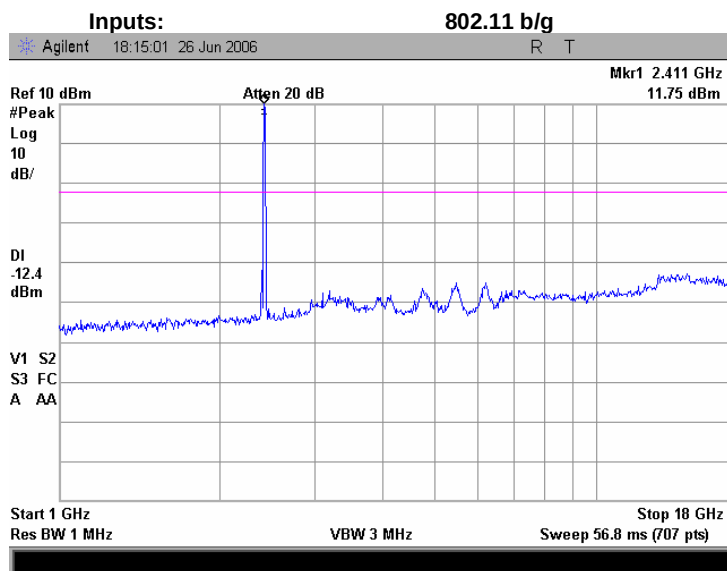


Plot 7.3.130 Spurious emission measurements in 1000 - 18000 MHz range at low carrier frequency, OFDM modulation

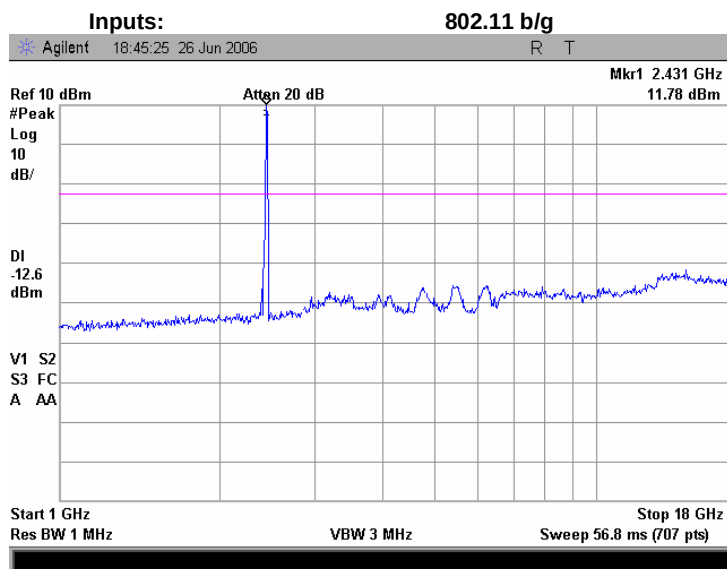


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.131 Spurious emission measurements in 1000 - 18000 MHz range at mid carrier frequency, OFDM modulation

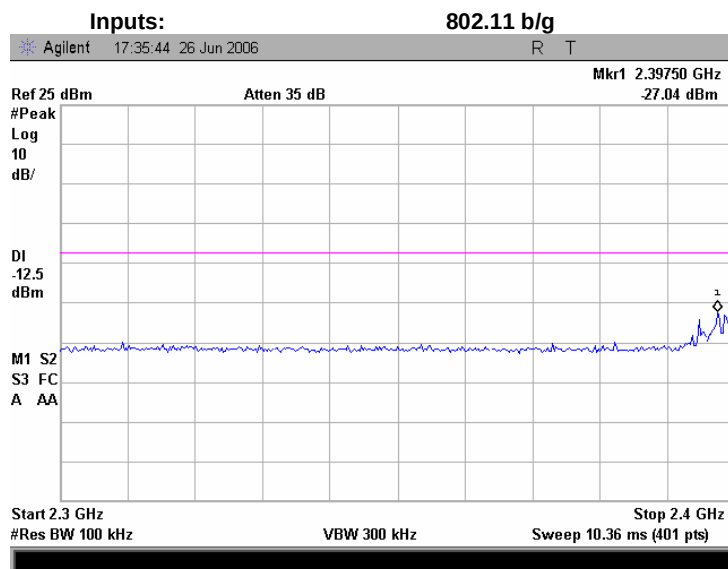


Plot 7.3.132 Spurious emission measurements in 1000 - 18000 MHz range at high carrier frequency, OFDM modulation

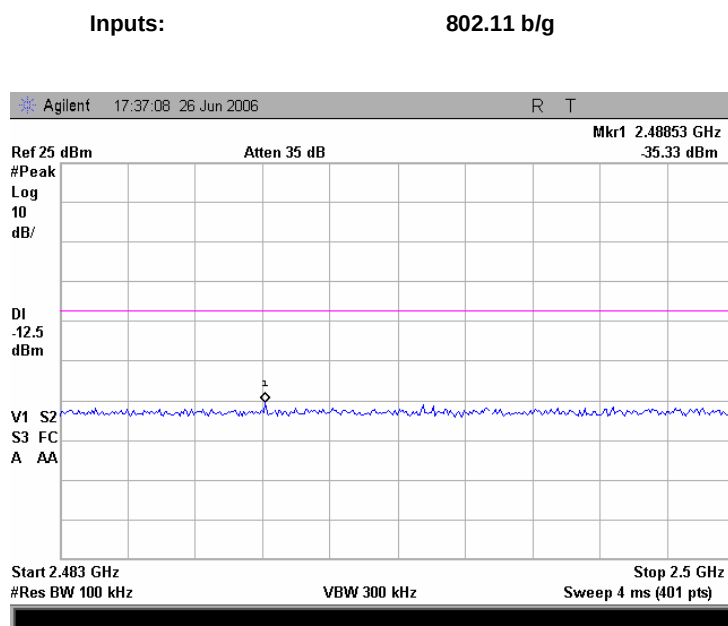


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.133 Spurious emission measurements in 2300 - 2400 MHz range at low carrier frequency, OFDM modulation

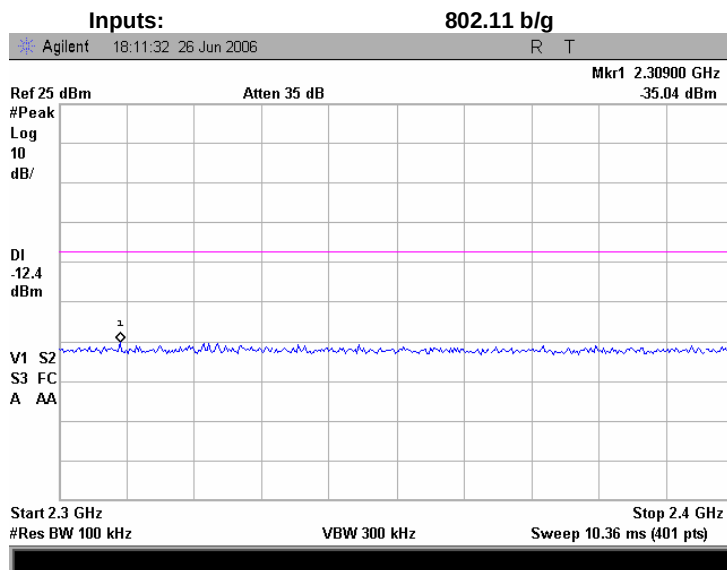


Plot 7.3.134 Spurious emission measurements in 2483.5 - 2500 MHz range at low carrier frequency, OFDM modulation

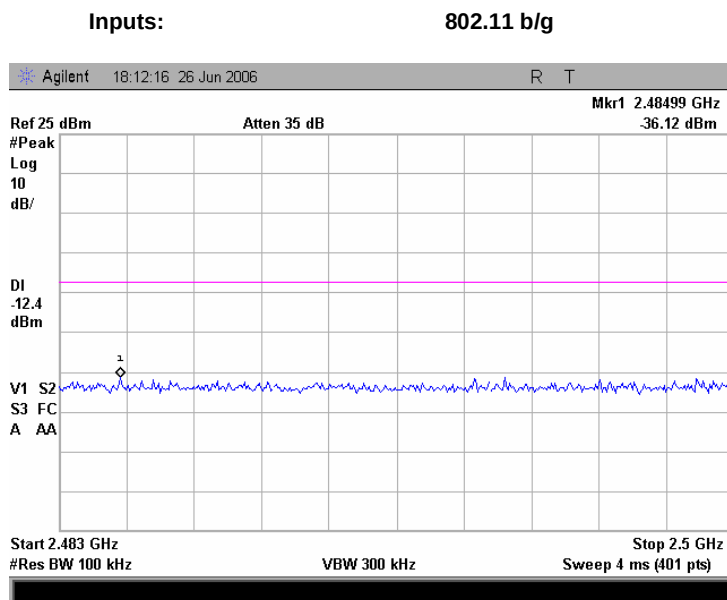


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		6/29/2006 7:00:19 PM	
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.135 Spurious emission measurements in 2300 - 2400 MHz range at mid carrier frequency, OFDM modulation

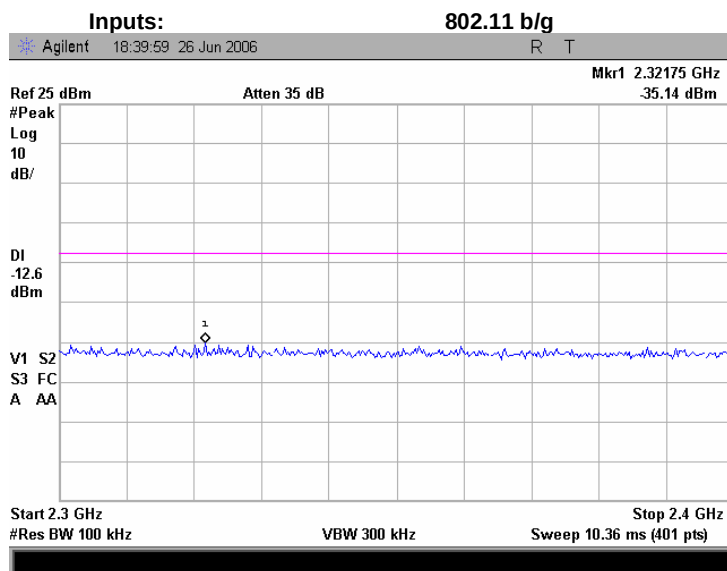


Plot 7.3.136 Spurious emission measurements in 2483.5 - 2500 MHz range at mid carrier frequency, OFDM modulation

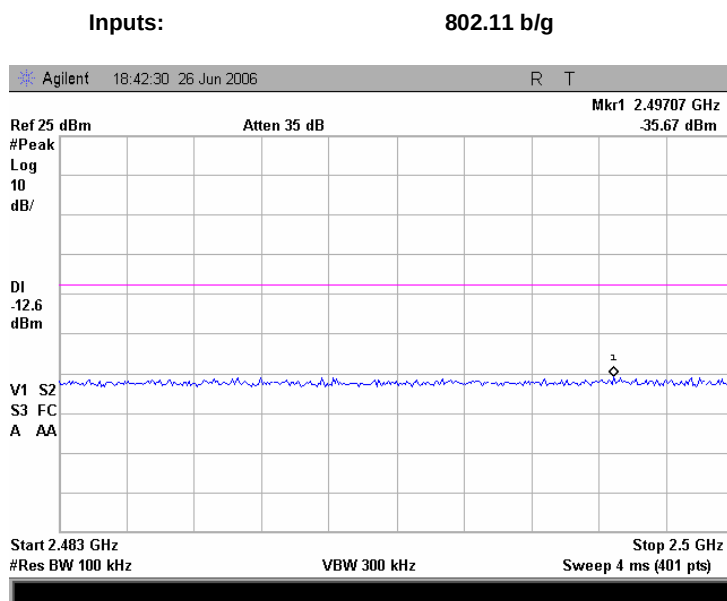


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

Plot 7.3.137 Spurious emission measurements in 2300 - 2400 MHz range at high carrier frequency, OFDM modulation



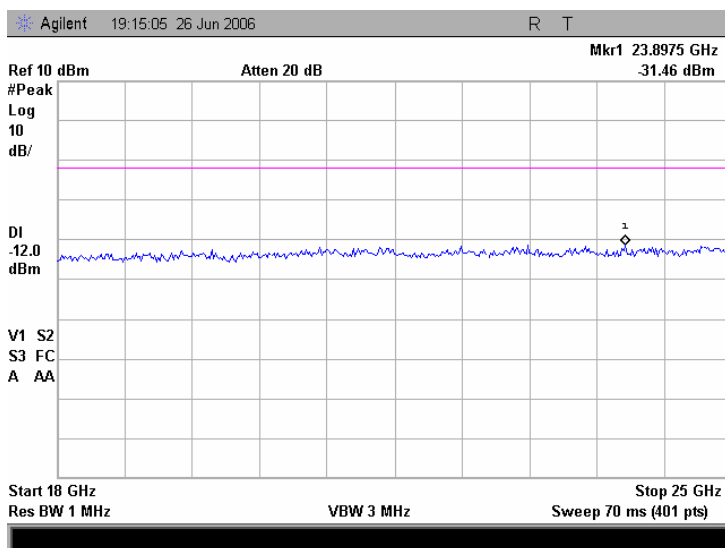
Plot 7.3.138 Spurious emission measurements in 2483.5 - 2500 MHz range at high carrier frequency, OFDM modulation



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

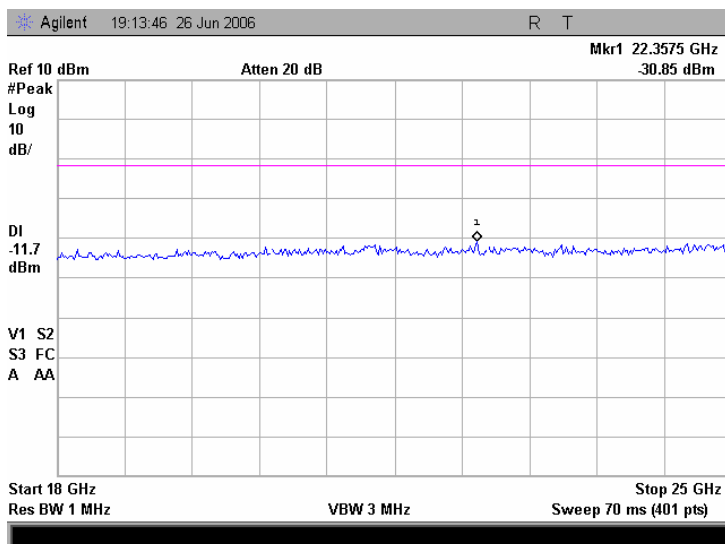
Plot 7.3.139 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.140 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, DSSS modulation

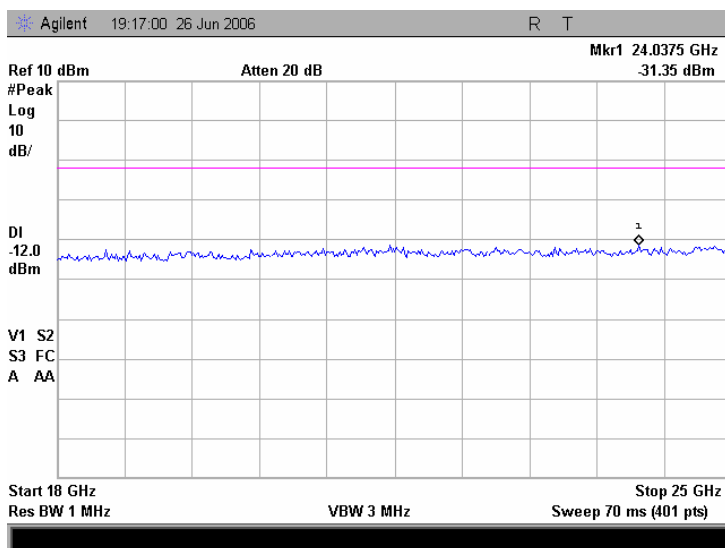
Inputs: 802.11 b/g



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

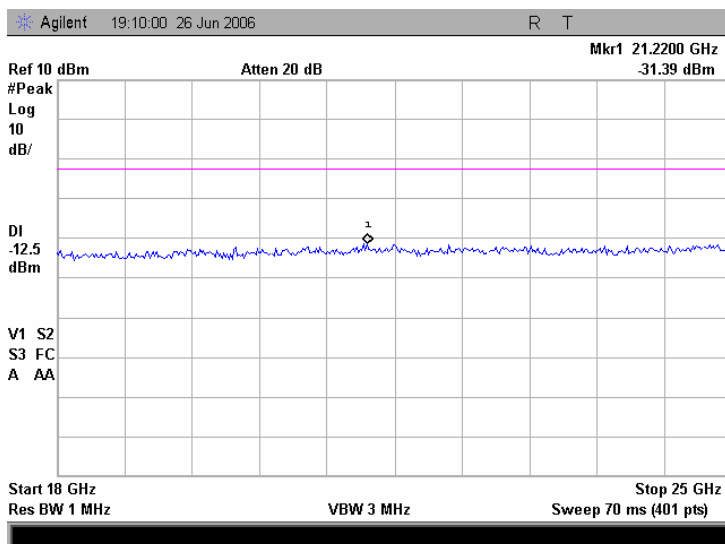
Plot 7.3.141 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, DSSS modulation

Inputs: 802.11 b/g



Plot 7.3.142 Spurious emission measurements in 18 - 25 GHz range at low carrier frequency, OFDM modulation

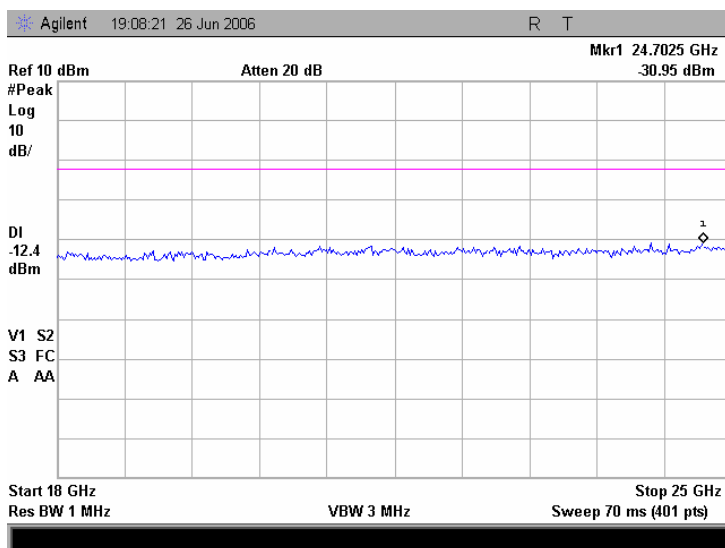
Inputs: 802.11 b/g



Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	6/29/2006 7:00:19 PM		
Temperature: 25 °C	Air Pressure: 1007 hPa	Relative Humidity: 46 %	Power Supply: 120 VAC
Remarks: 802.11b/g			

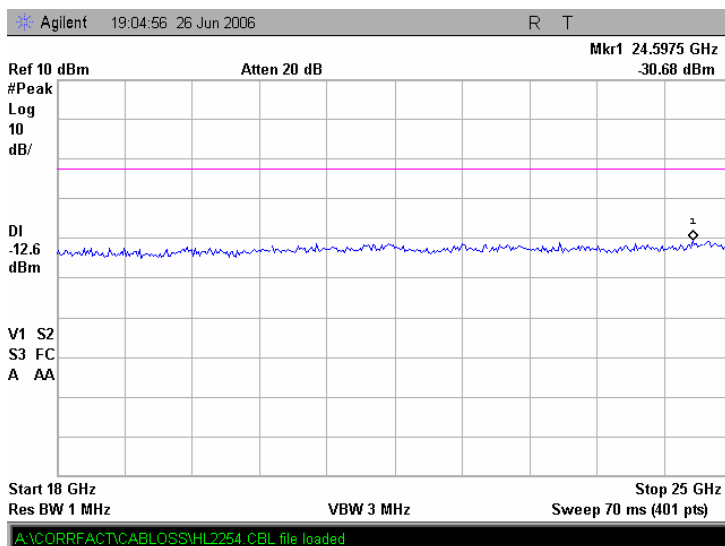
Plot 7.3.143 Spurious emission measurements in 18 - 25 GHz range at mid carrier frequency, OFDM modulation

Inputs: 802.11 b/g



Plot 7.3.144 Spurious emission measurements in 18 - 25 GHz range at high carrier frequency, OFDM modulation

Inputs: 802.11 b/g



Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

7.4 Spurious emissions at RF antenna connector

7.4.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.4.1. The test results are provided in Table 7.4.2 and associated plots.

Table 7.4.1 Spurious emission limits

Frequency*, MHz	Attenuation below carrier*, dBc
0.009 – 10 th harmonic	43+10logP

* - The above limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

** - Spurious emission limit is provided in terms of attenuation below the peak of modulated carrier measured with the same resolution bandwidth.

7.4.2 Test procedure

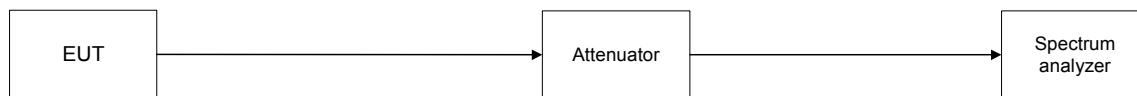
7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and its proper operation was checked.

7.4.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

7.4.2.3 The highest emission level within the authorized band was measured.

7.4.2.4 The spurious emission was measured with spectrum analyzer as provided in Table 7.4.2 and associated plots and referenced to the highest emission level measured within the authorized band.

Figure 7.4.1 Spurious emission test setup



Test specification:		Section 15.247(c), Conducted spurious emissions			
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)			
Test mode:		Compliance		Verdict: PASS	
Date & Time:		5/31/2006 2:07:26 PM			
Temperature: 24 °C		Air Pressure: 1008 hPa		Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24					

Table 7.4.2 Spurious emission test results

INVESTIGATED FREQUENCY RANGE: 0.009 – 26500 MHz
DETECTOR USED: Peak
VIDEO BANDWIDTH: ≥ Resolution bandwidth
MODULATION: DSSS/OFDM
MODULATING SIGNAL: PRBS
BIT RATE: 1 Mbps
TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	SA reading, dBm	Attenuator, dB	Cable loss, dB	RBW, kHz	Spurious emission, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
Low carrier frequency									
1067.5	-34.33	Included	Included	1000	-34.33	71.33	50.00	-21.33	Pass
1728.0	-30.16	Included	Included	1000	-30.16	67.16	50.00	-17.16	Pass
Mid carrier frequency									
1080.0	-39.00	Included	Included	1000	-39.00	76.00	50.00	-26.00	Pass
1763.0	-28.92	Included	Included	1000	-28.92	65.92	50.00	-15.92	Pass
High carrier frequency									
1097.5	-42.92	Included	Included	1000	-42.92	79.92	50.00	-29.92	Pass
1788.0	-27.63	Included	Included	1000	-27.63	64.63	50.00	-14.63	Pass

*- Margin = Attenuation below carrier – specification limit.

Note: intentional radiators at 800MHz & 1900MHz band range , and at 2.4GHz and 5GHz.

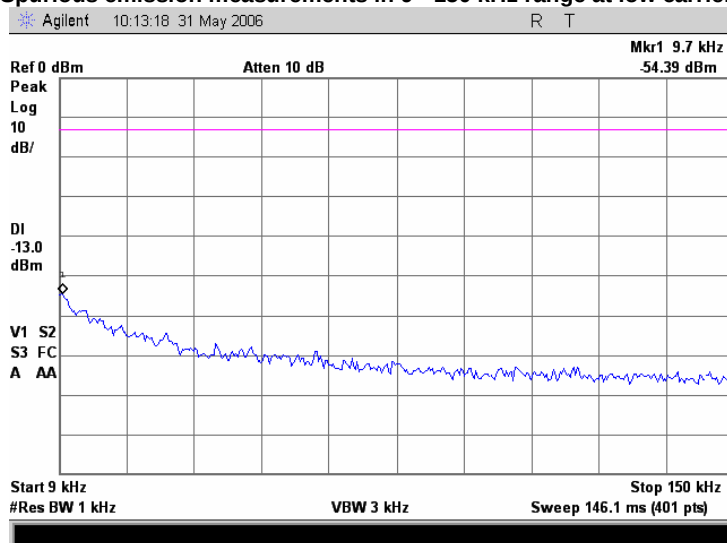
Reference numbers of test equipment used

HL 1441	HL 1906	HL 2667	HL 2909				
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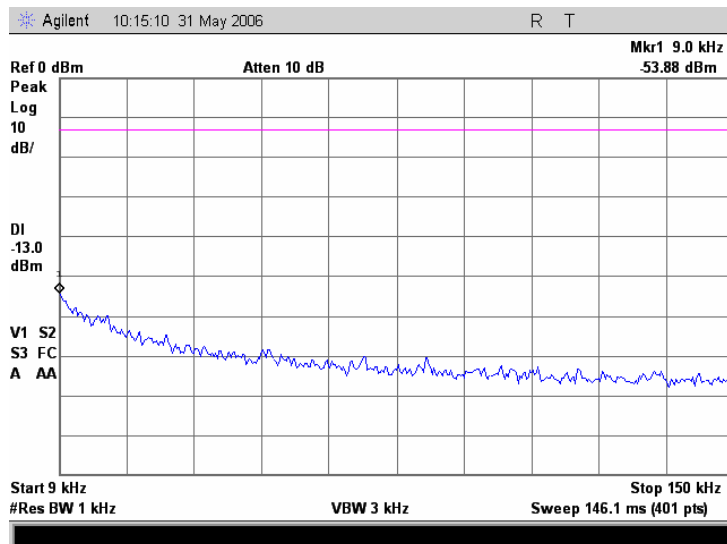
Full description is given in Appendix A.

Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.1 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency

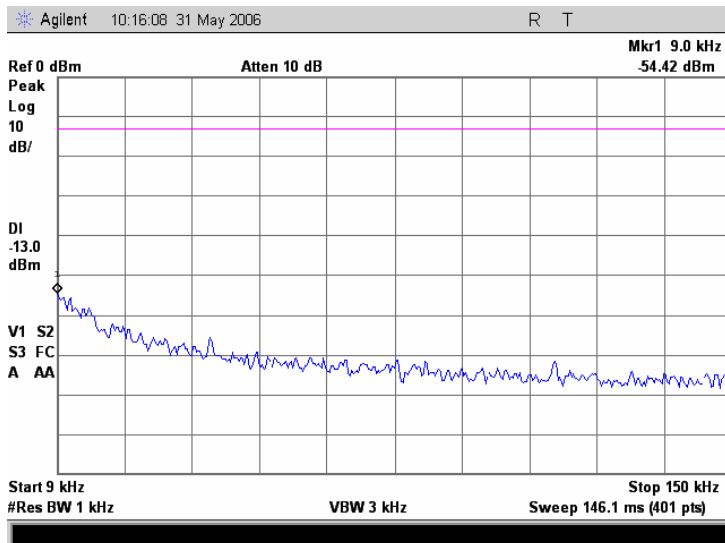


Plot 7.4.2 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency

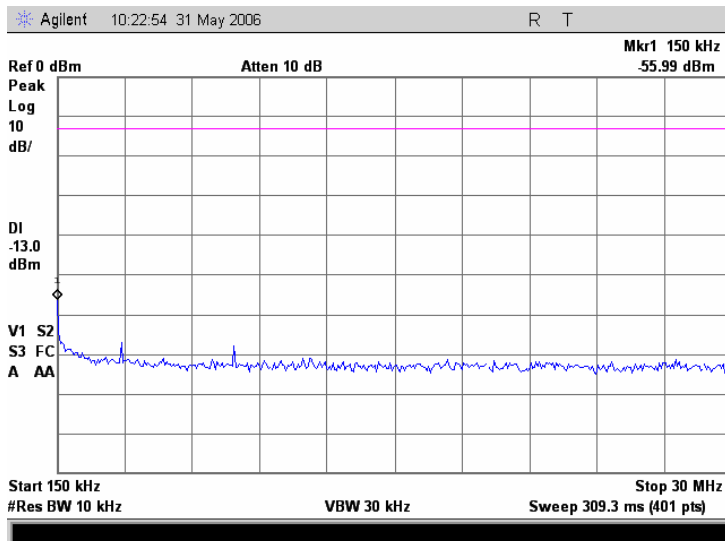


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.3 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency

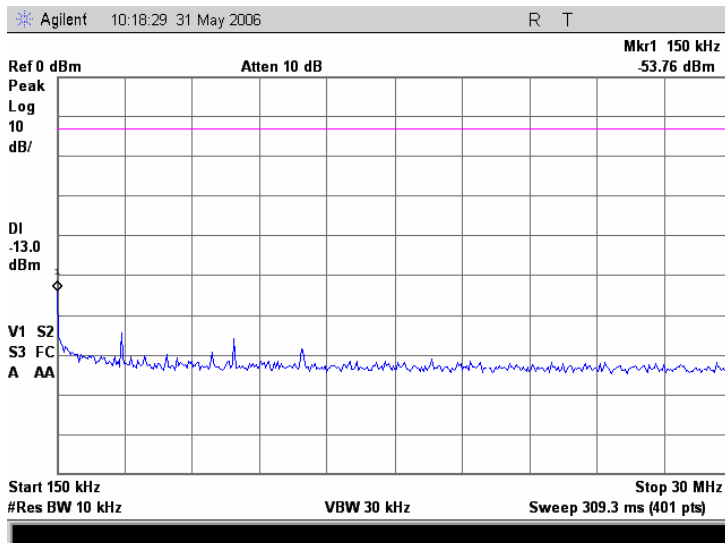


Plot 7.4.4 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency

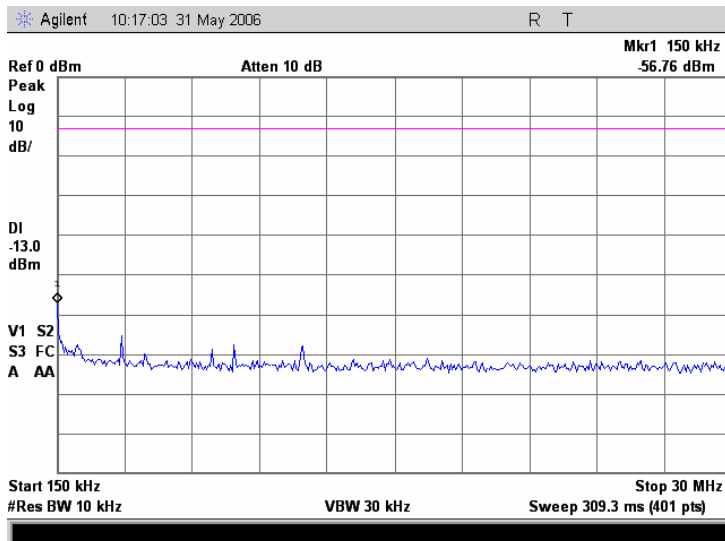


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.5 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency

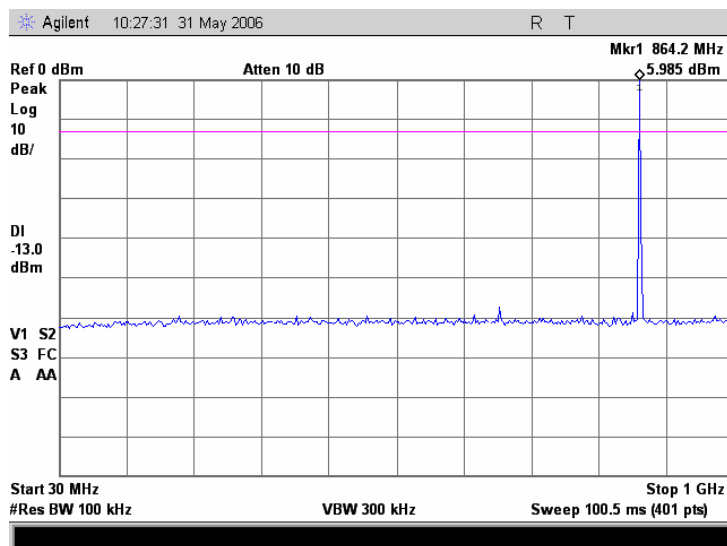


Plot 7.4.6 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency

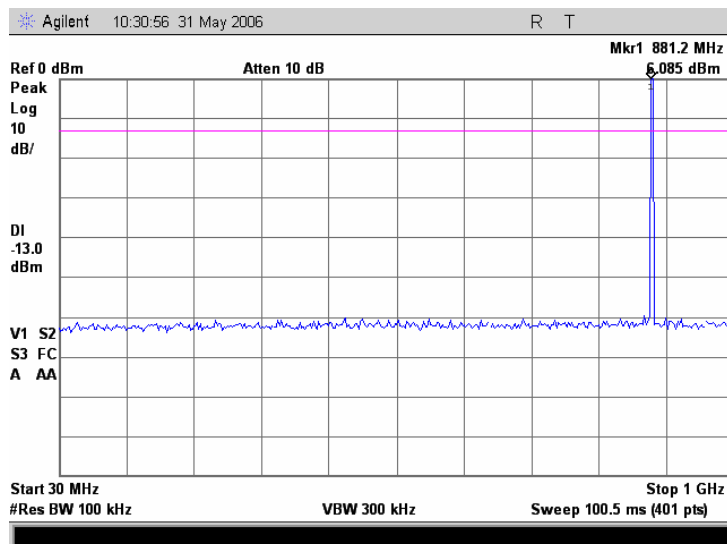


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/31/2006 2:07:26 PM	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.7 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency

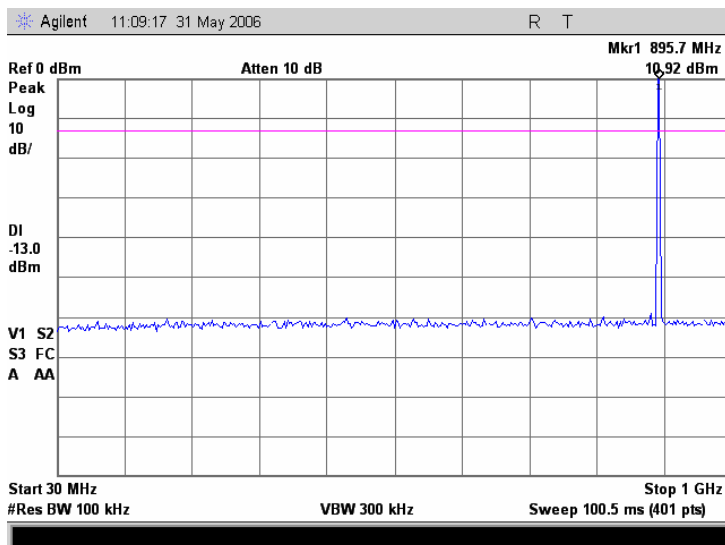


Plot 7.4.8 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency

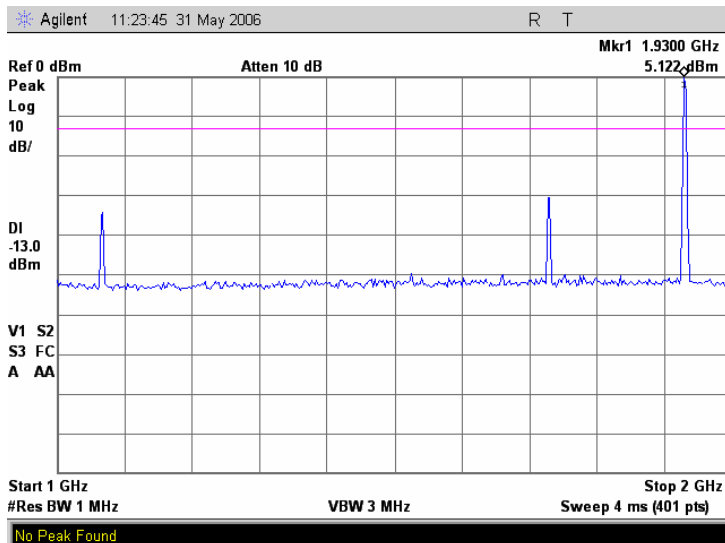


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.9 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency

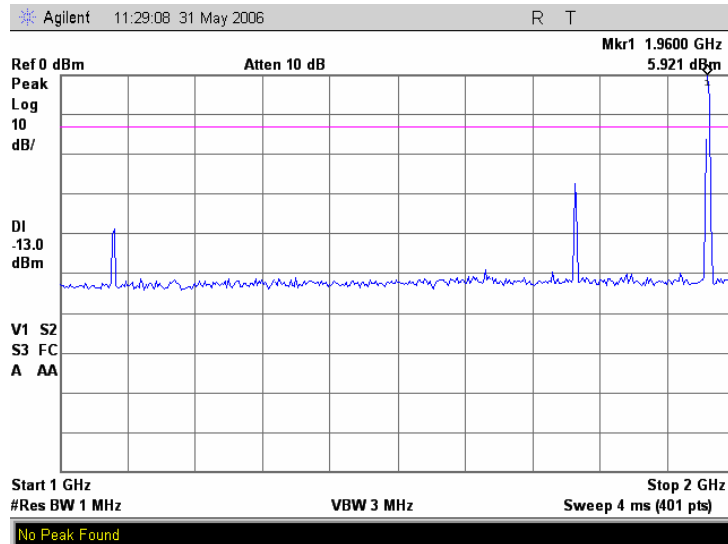


Plot 7.4.10 Spurious emission measurements in 1000 - 2000MHz range at low carrier frequency

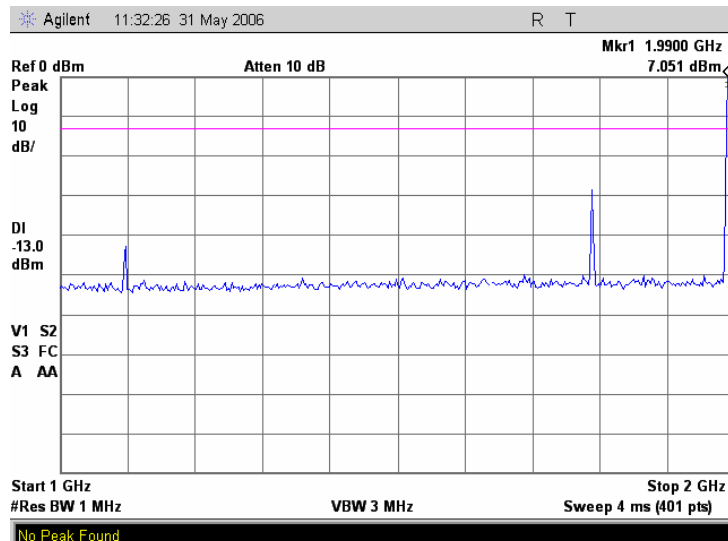


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.11 Spurious emission measurements in 1000 - 2000MHz range at mid carrier frequency

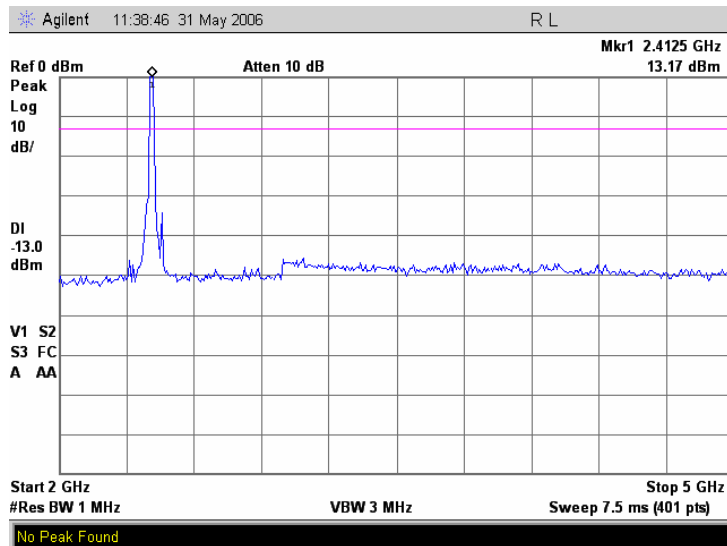


Plot 7.4.12 Spurious emission measurements in 1000 -2000 MHz range at high carrier frequency

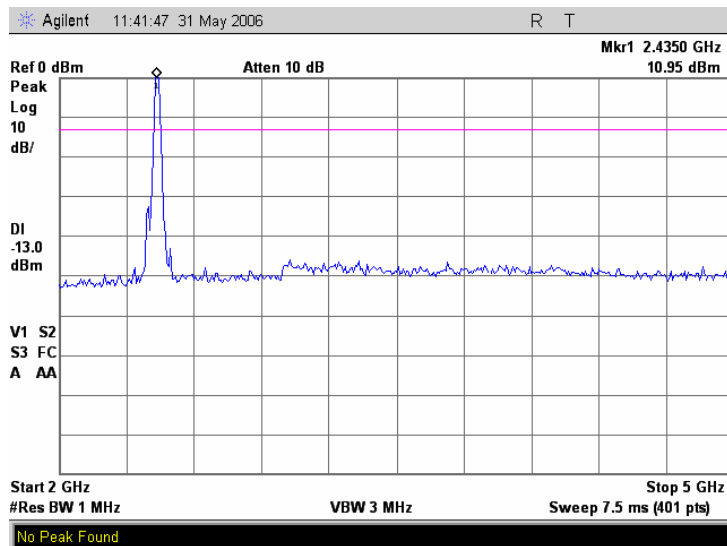


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.13 Spurious emission measurements in 2000 - 5000MHz range at low carrier frequency

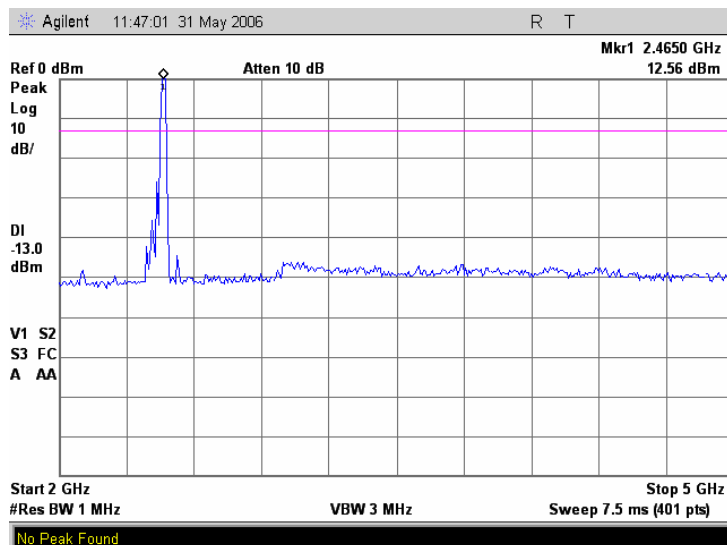


Plot 7.4.14 Spurious emission measurements in 2000 - 5000MHz range at mid carrier frequency

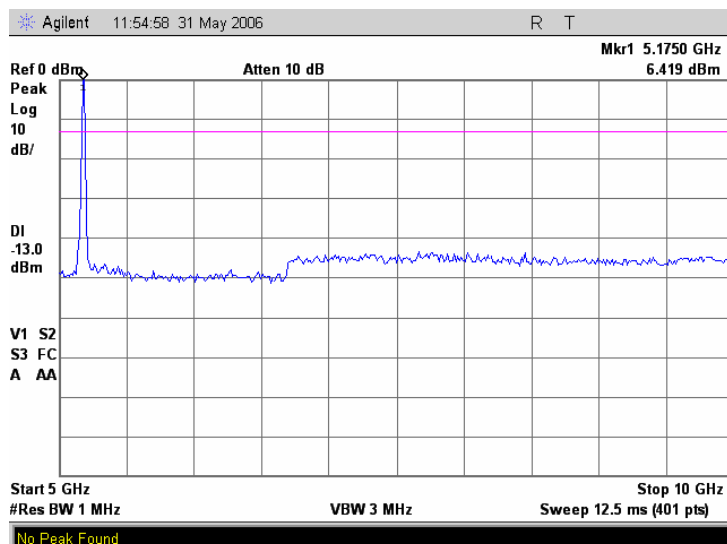


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/31/2006 2:07:26 PM	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.15 Spurious emission measurements in 2000 -5000 MHz range at high carrier frequency

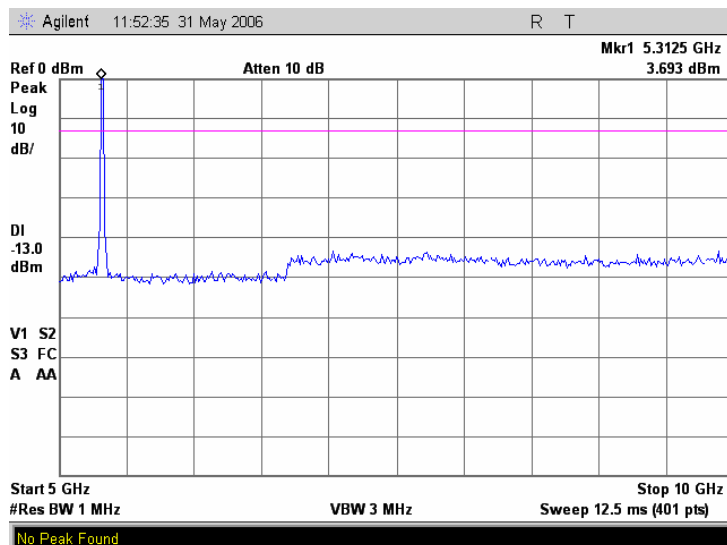


Plot 7.4.16 Spurious emission measurements in 5000 - 10000MHz range at low carrier frequency

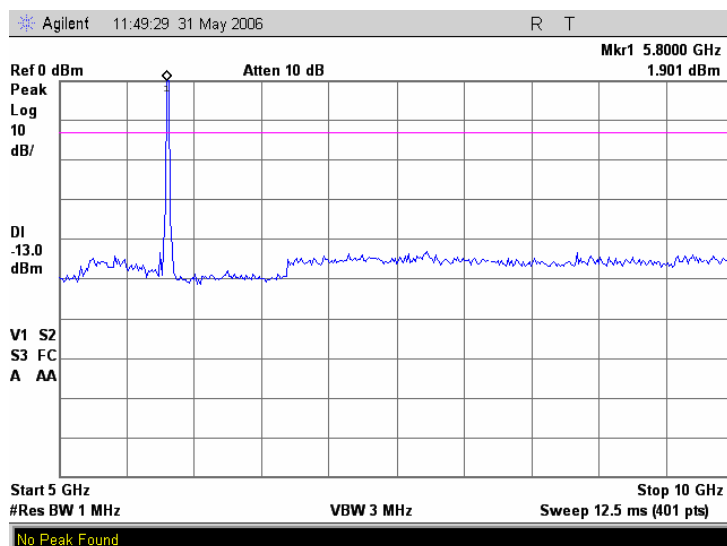


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/31/2006 2:07:26 PM	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.17 Spurious emission measurements in 5000 - 10000MHz range at mid carrier frequency

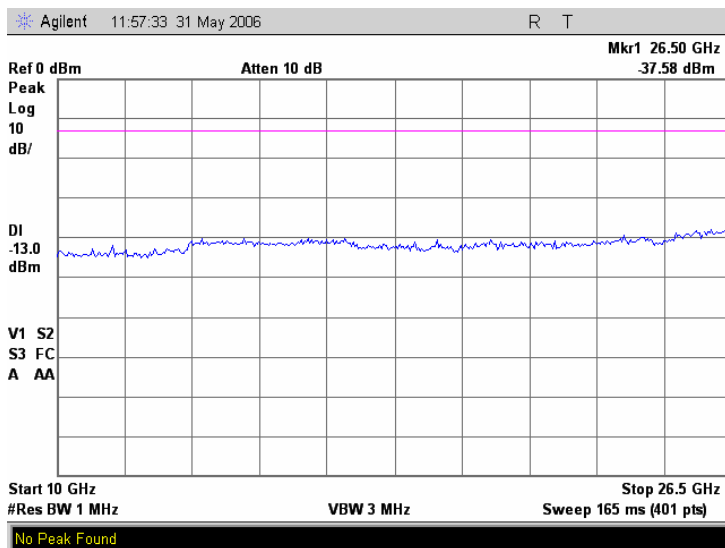


Plot 7.4.18 Spurious emission measurements in 5000 -10000 MHz range at high carrier frequency

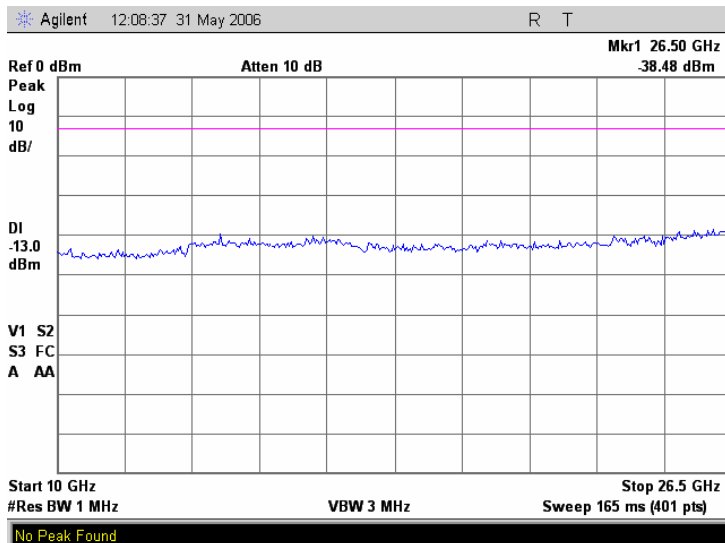


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/31/2006 2:07:26 PM	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.19 Spurious emission measurements in 10000 - 26500MHz range at low carrier frequency

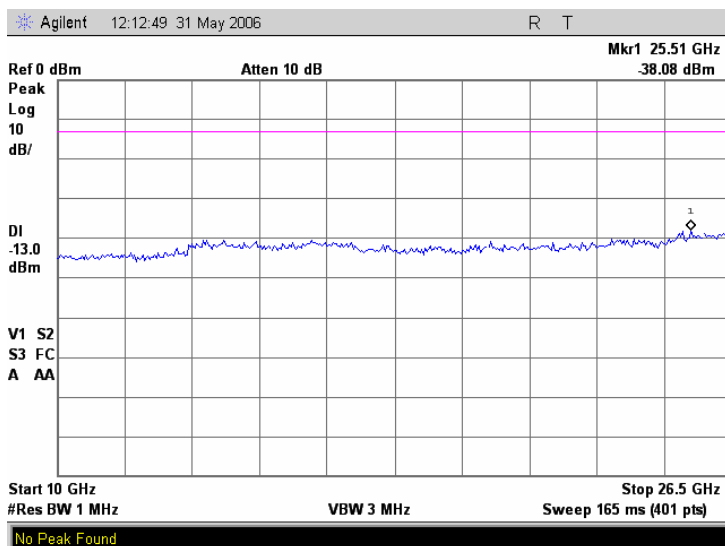


Plot 7.4.20 Spurious emission measurements in 10000 - 26500MHz range at mid carrier frequency



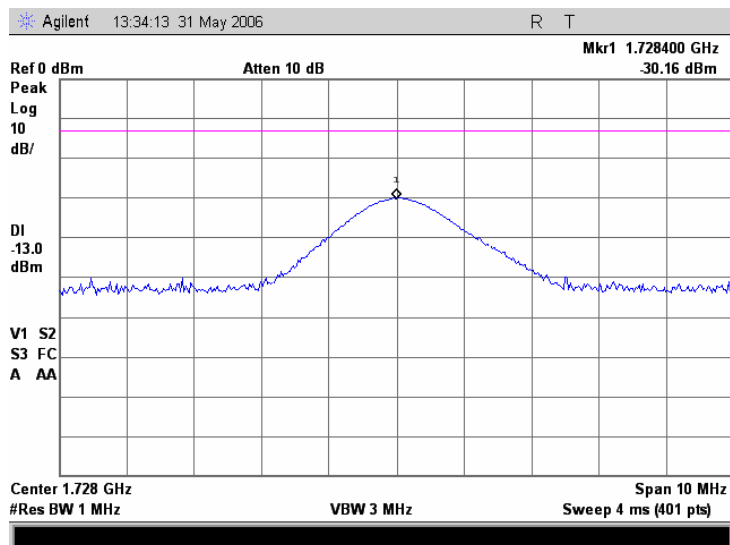
Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:		Compliance	Verdict: PASS
Date & Time:		5/31/2006 2:07:26 PM	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.21 Spurious emission measurements in 100000 -26500 MHz range at high carrier frequency

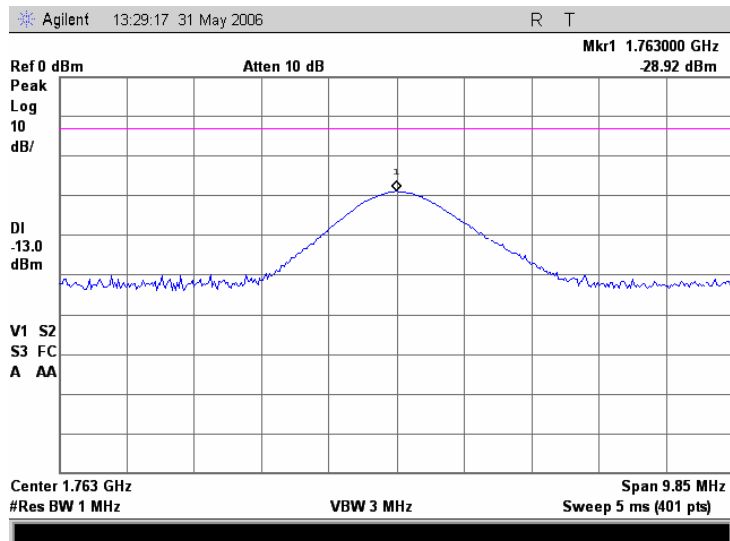


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.22 Conducted spurious emission measurements at the 2nd harmonic of low carrier frequency 800 band

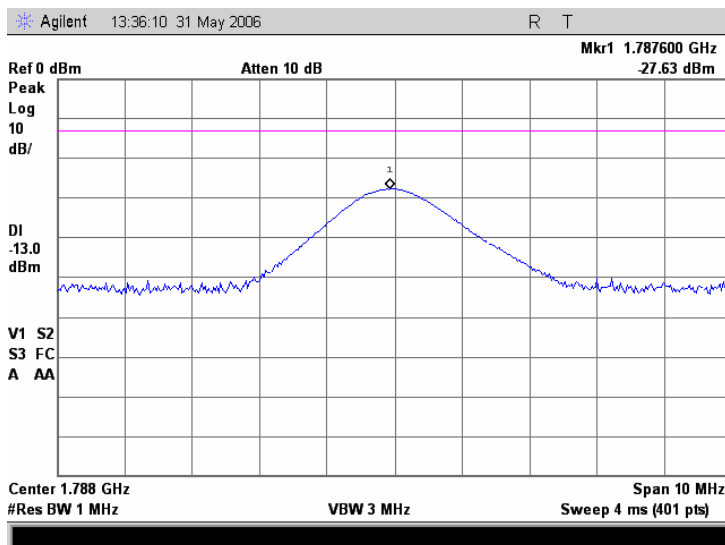


Plot 7.4.23 Conducted spurious emission measurements at the 2nd harmonic of mid carrier frequency 800 band

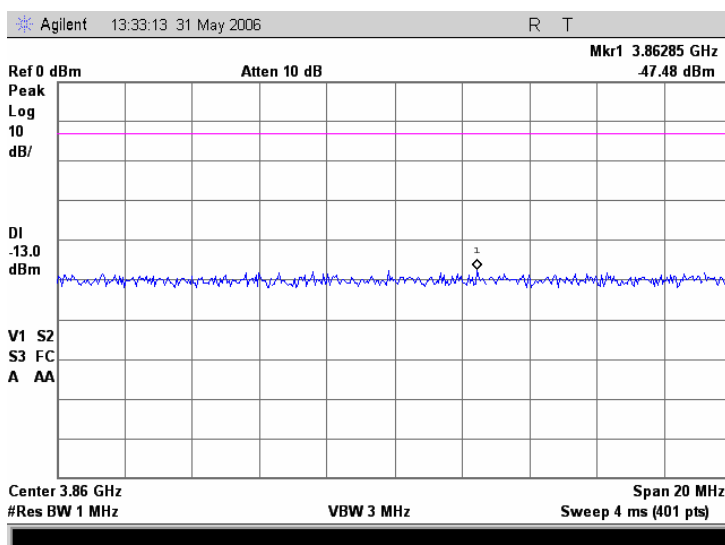


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.24 Conducted spurious emission measurements at the 2nd harmonic of high carrier frequency 800 band

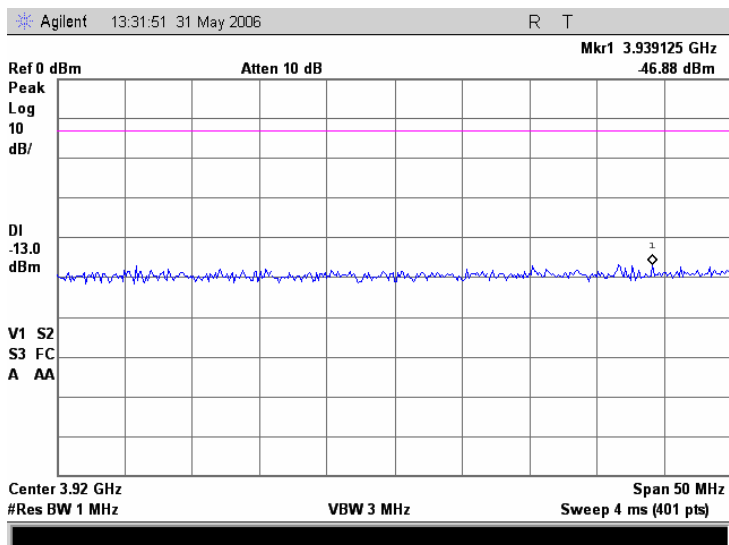


Plot 7.4.25 Conducted spurious emission measurements at the 2nd harmonic of low carrier frequency 1900 band

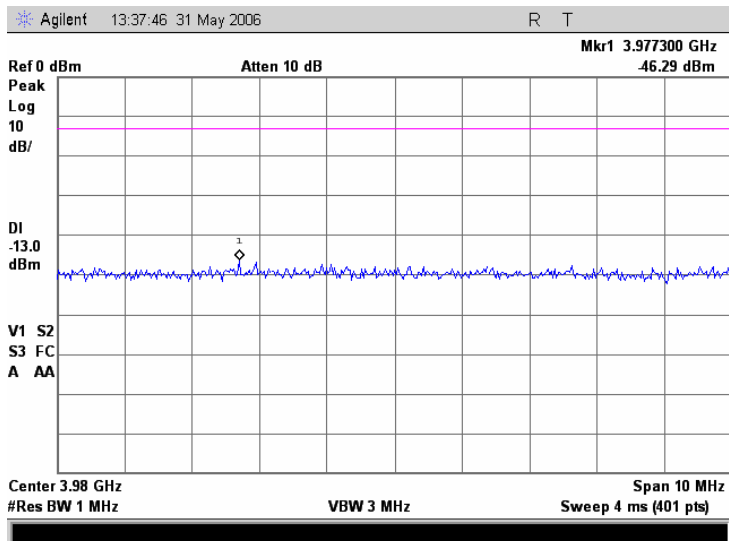


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.26 Conducted spurious emission measurements at the 2nd harmonic of mid carrier frequency 1900 band

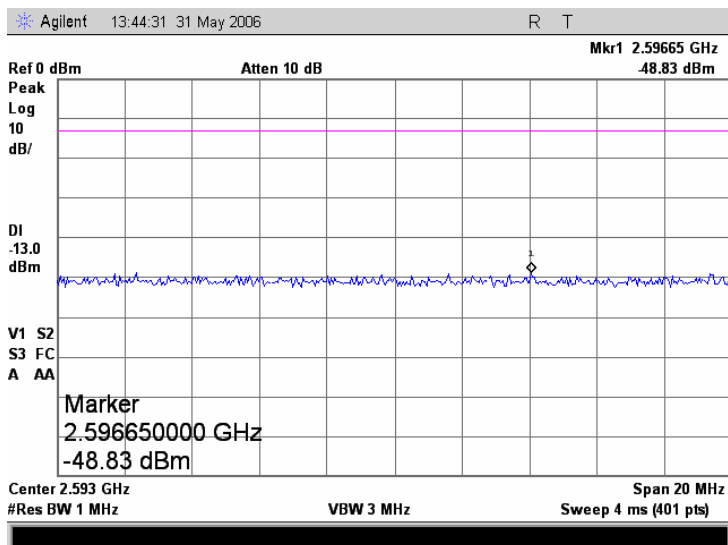


Plot 7.4.27 Conducted spurious emission measurements at the 2nd harmonic of high carrier frequency 1900 band

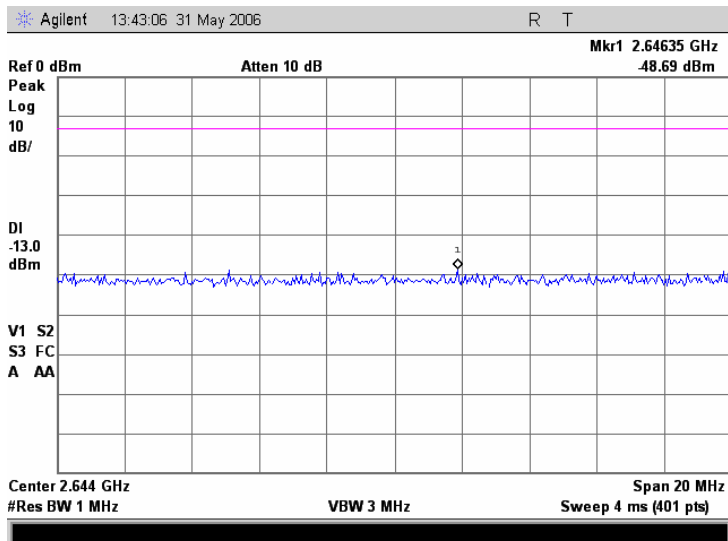


Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.28 Conducted spurious emission measurements at the 3rd harmonic of low carrier frequency 800 band

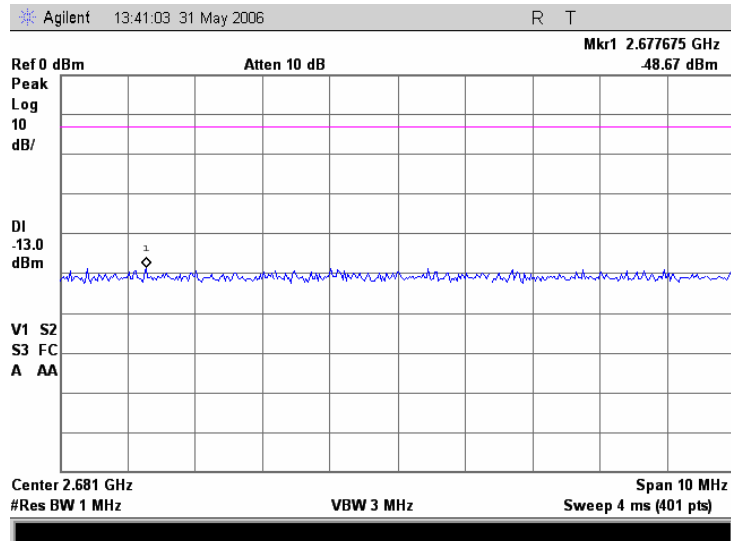


Plot 7.4.29 Conducted spurious emission measurements at the 3rd harmonic of mid carrier frequency 800 band



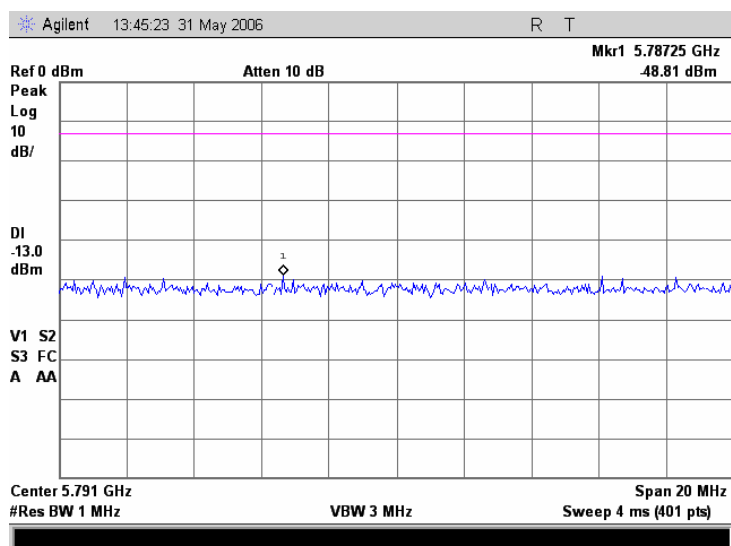
Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.30 Conducted spurious emission measurements at the 3rd harmonic of high carrier frequency 800 band

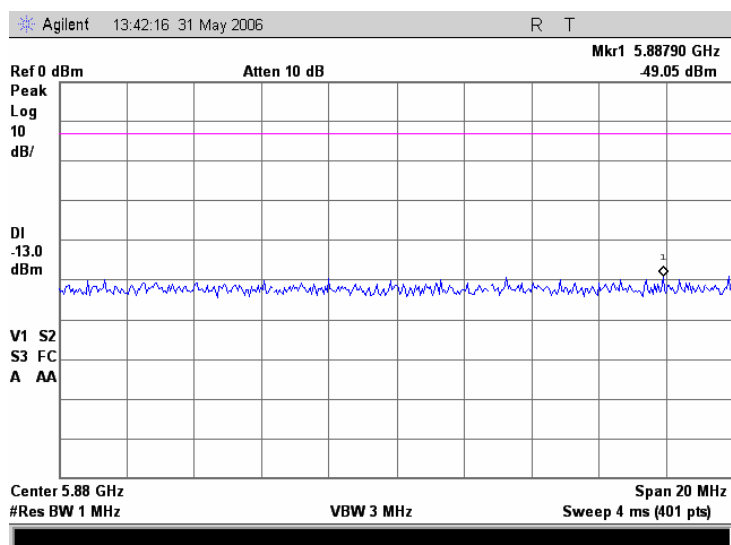


Test specification:	Section 15.247(c), Conducted spurious emissions		
Test procedure:	FR Vol. 62, page 26243, Section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.31 Conducted spurious emission measurements at the 3rd harmonic of low carrier frequency 1900 band



Plot 7.4.32 Conducted spurious emission measurements at the 3rd harmonic of mid carrier frequency 1900 band



Test specification:		Section 15.247(c), Conducted spurious emissions	
Test procedure:		FR Vol. 62, page 26243, Section 15.247(c)	
Test mode:	Compliance	Verdict:	PASS
Date & Time:	5/31/2006 2:07:26 PM		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: 42 %	Power Supply: 120 VAC
Remarks: according to part 22/24			

Plot 7.4.33 Conducted spurious emission measurements at the 3rd harmonic of high carrier frequency 1900 band

