Exhibit N: Spurious Conducted Emissions

FCC ID: EJM-X400

Spurious RF Conducted Emissions

Revision 2/4/02

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
High
Mid
Low

Operating Modes Investigated:

Typical

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated				
Start Frequency	1 MHz	Stop Frequency	25 GHz	

Software\Firmware Applied During Test						
Exercise software	Standard Production Software	Version	2.1.0.104-4400			
Description						
The system was tested using standard operating production software to exercise the functions of the device during the testing. The software resides in Flash on the baseboard of the EUT.						

Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio Module	Intel Corporation	WL-350F V05	00904B0A83FD
EUT	Intel Corporation	AnyPoint DSL Gateway 4400	0007E9036749
PC	Dell	Inspiron 7000	9043346BY16251A
EUT Power Supply	CUI Stack	TEAD-48-121200UT	0210

Spurious RF Conducted Emissions

Revision 2/4/02

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
CAT 5 E-net	No	2.0	No	EUT	PC
DC Power	No	1.5	No	EUT Power Supply	EUT
AC Power	No	1.8	No	EUT Power Supply	AC Mains

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	24 mo

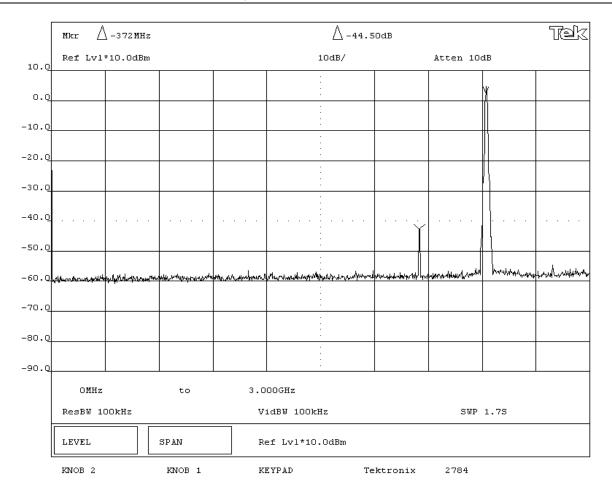
Test Description

Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

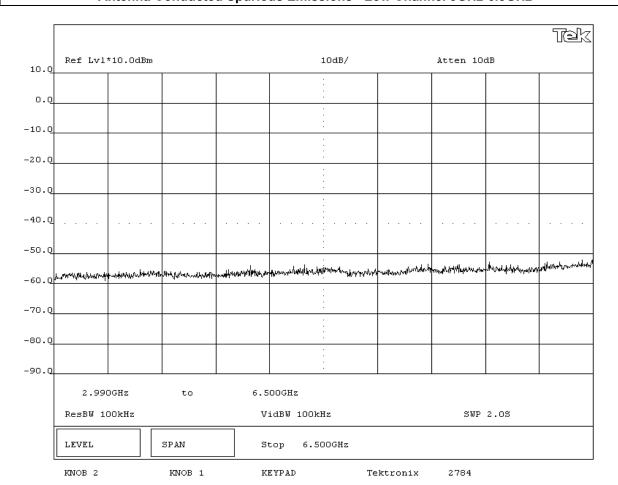
Configuration: The 4400 and 1400 use the same radio module, antennas, power supply, base board layout, and enclosure. The difference is the 4400 has a DSL interface, and the 1400 has an Ethernet interface. Since the radio module is the same, the test was performed in a representative system: the 4400. The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Completed by:

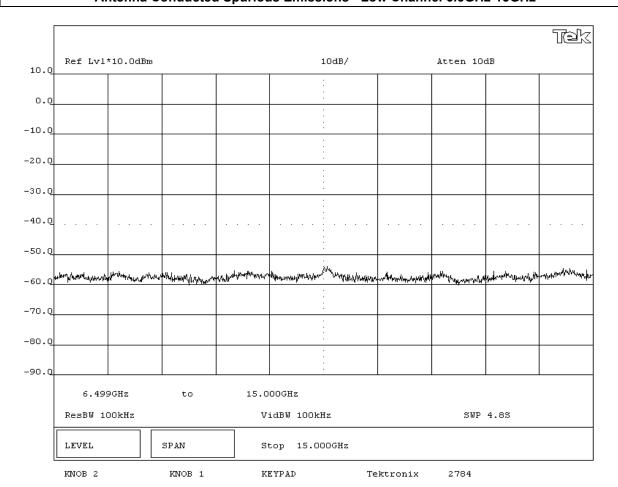
NORTHWEST		EMISSIONS	DATA CH	CCT		
EMC		EMISSIONS	DATA SIT	CCI		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E	UT					
EUT OPERATING MOI	DES					
Modulated by stream	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down fr	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Cond	ducted Spurious En	nissions - Lov	Channel 0MH	lz-3GHz	



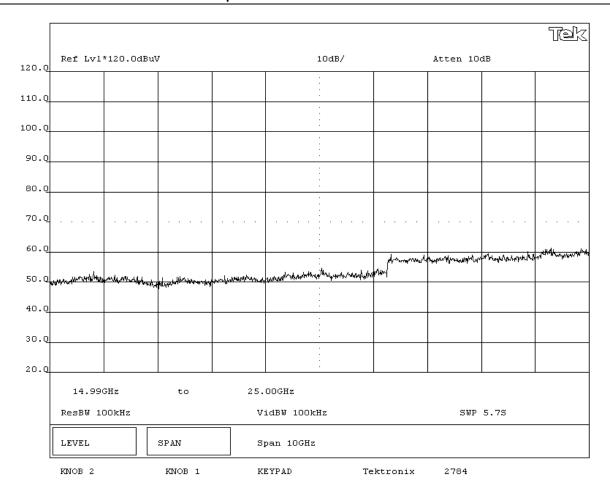
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
WL-350F installed in I	EUT					
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T						
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Condu	cted Spurious Emis	sions - Low	Channel 3GH	lz-6.5GHz	_



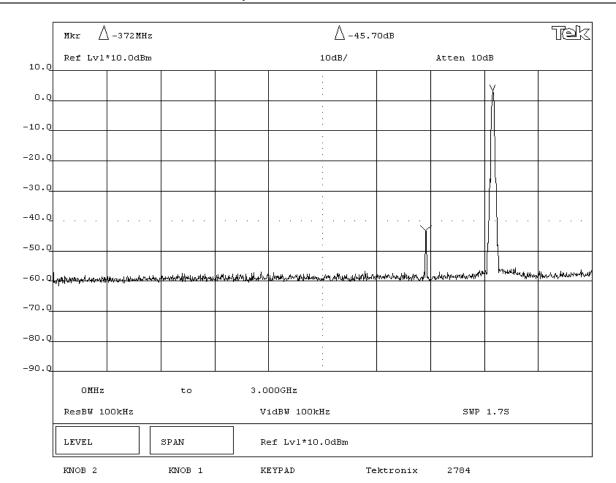
NORTHWEST EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E	UT					
EUT OPERATING MO						
Modulated by stream	of "1010101" data at maximum dat	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADUK.D					
DESCRIPTION OF TES		cted Spurious Emis	oiono Low	Channal 6 50	LL- 15CU-	



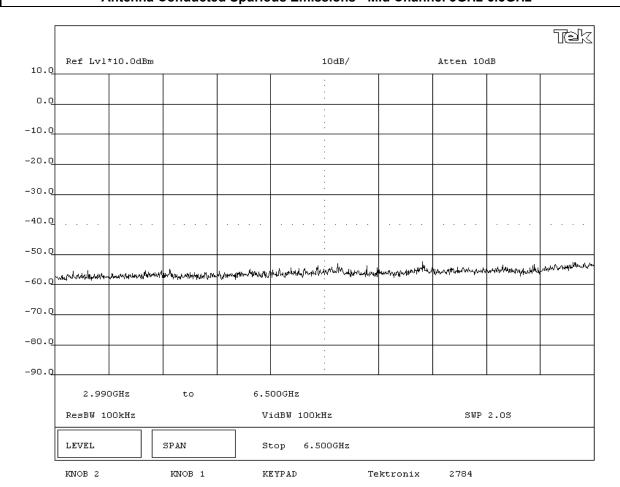
NORTHWEST EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation					21 degrees C
Attendees:				Greg Kiemel	Humidity:	
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	.4 Year:	1992
COMMENTS WL-350F installed in E	UT					
EUT OPERATING MOD	DES					
Modulated by stream of	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM TO	EST STANDARD					
None						
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Conduc	ted Spurious Emis	sions - Low C	Channel 15GH	lz - 25GHz	·



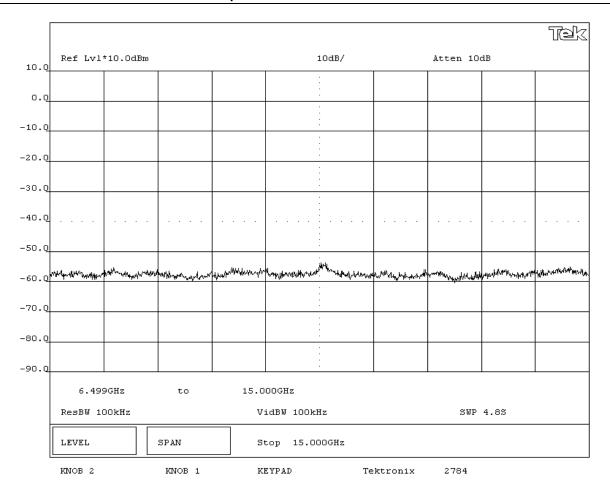
NORTHWEST EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	S					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS WL-350F installed in E	:UT					
EUT OPERATING MOD	DES					
Modulated by stream of	of "1010101" data at maximum d	ata rate, maximum output power				
DEVIATIONS FROM TO	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of th	e authorized band is 20 dB down fro	m the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Cond	ducted Spurious Em	issions - Mid	Channel 0MH	lz-3GHz	



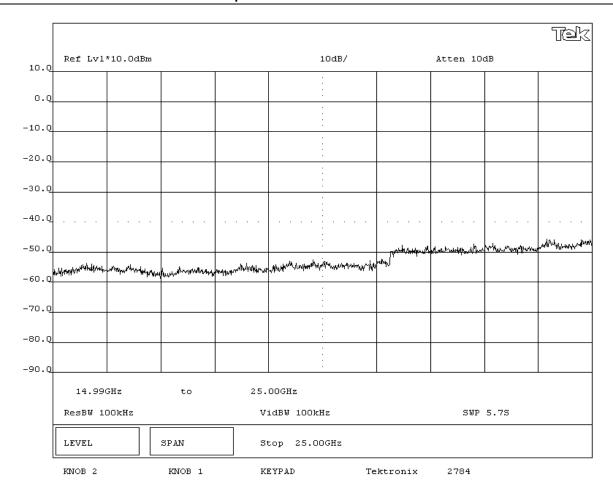
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	4 Year:	1992
SAMPLE CALCULATION	ons					
COMMENTS WL-350F installed in E	-117					
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate maximum output nower				
DEVIATIONS FROM T		ta rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		icted Spurious Emi	ssions - Mid	Channel 3GH	z-6 5GHz	



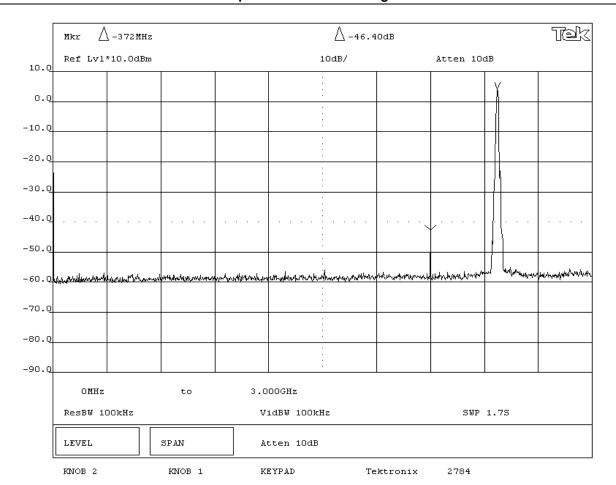
EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:			Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	is					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	3.4 Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E						
EUT OPERATING MO	DES of "1010101" data at maximum da	to rate maximum autnut naver				
		ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
REQUIREMENTS						
	enurious amission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS	Sparious chilosion outside of the	dutionized band is 20 db down in	om the fandamental			
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Condu	cted Spurious Emis	sions - Mid (Channel 6.5G	Hz-15GHz	



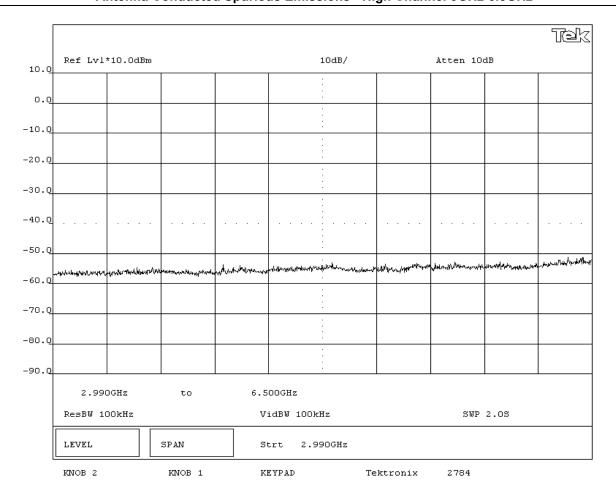
NORTHWEST EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01		
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561		
Serial Number:	0007E9036749				Date:	05/21/02		
Customer:	ntel Corporation Temperature: 21 degrees C							
Attendees:				Greg Kiemel	Humidity:			
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATION								
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.	4 Year:	1992		
COMMENTS WL-350F installed in E	UT							
EUT OPERATING MOD								
	of "1010101" data at maximum da	ta rate, maximum output power						
DEVIATIONS FROM TE	EST STANDARD							
None								
REQUIREMENTS			0.6.1.4.1					
	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental					
RESULTS								
Pass								
Tested By:								
DESCRIPTION OF TES	DESCRIPTION OF TEST							
	Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz							



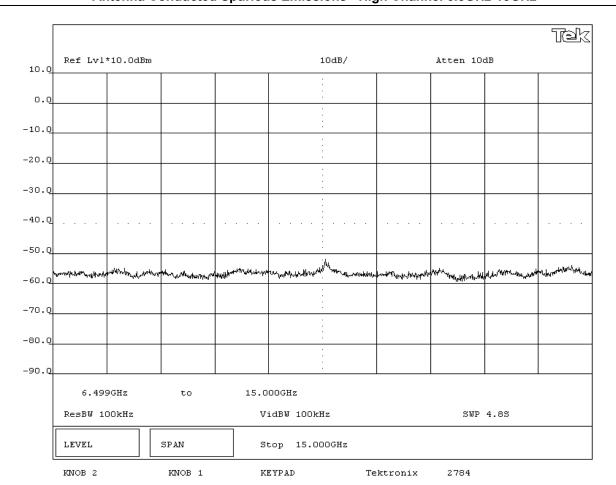
EMC		EMISSIONS D	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	is					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS WL-350F installed in E	-117					
EUT OPERATING MO						
	of "1010101" data at maximum da	ata rato, maximum output nower				
DEVIATIONS FROM T		ata rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	snurious emission outside of the	e authorized band is 20 dB down fro	m the fundamental			
RESULTS	Sparious chilosion outside of the	danonized band is 25 dB down in	in the fundamental			
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Antenna Cond	ucted Spurious Emis	ssions - Higl	h Channel 0M	Hz-3GHz	



EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
WL-350F installed in I	FUT					
EUT OPERATING MO						
	of "1010101" data at maximum da	ta rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of the	authorized band is 20 dB down from	om the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Condu	cted Spurious Emis	sions - High	Channel 3GH	Iz-6.5GHz	



EMC		EMISSIONS I	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Mike Espig		Tested by:	Greg Kiemel	Humidity:	
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION						
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63	.4 Year:	1992
SAMPLE CALCULATI	ONS					
COMMENTS						
WL-350F installed in I						
EUT OPERATING MO	of "1010101" data at maximum da	to rate maximum autnut naucr				
DEVIATIONS FROM T		ta rate, maximum output power				
None	EST STANDARD					
REQUIREMENTS						
	spurious emission outside of the	authorized band is 20 dB down fro	om the fundamental			
RESULTS	opanicae cimecion caterae ci are		om the randamental			
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Antenna Conduc	cted Spurious Emis	sions - High	Channel 6.50	Hz-15GHz	•



EMC		EMISSIONS D	DATA SH	EET		Rev BETA 01/30/01
EUT:	AnyPoint DSL Gateway 4400				Work Order:	INTE4561
Serial Number:	0007E9036749				Date:	05/21/02
Customer:	Intel Corporation				Temperature:	21 degrees C
Attendees:	Attendees: Mike Espig Tested by: Greg Kiemel			Greg Kiemel	Humidity:	39% RH
Customer Ref. No.:	N/A		Power:	120V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.247(c)	Year: Most Current	Method:	FCC 97-114, ANSI C63.4	4 Year:	1992
SAMPLE CALCULATION	ONS					
COMMENTS						
WL-350F installed in E	UT					
EUT OPERATING MOD	DES					
Modulated by stream	of "1010101" data at maximum d	ata rate, maximum output power				
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
Maximum level of any	spurious emission outside of th	e authorized band is 20 dB down fro	m the fundamental			
RESULTS						
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST T					
	Antenna Condu	cted Spurious Emis	sions - High	Channel 15G	Hz-25GHz	

