Ellion	tt	EM	C Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Emissions Spec:	FCC Part 15 B and E, RSS-210	Class:	В
Immunity Spec:	N/A	Environment:	-

For The

Intel Corporation

Model

WPCI5000



Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Emissions Spec:	FCC Part 15 B and E, RSS-210	Class:	В
Immunity Spec:	N/A	Environment:	-

EUT INFORMATION

General Description

The EUT is a UNII PCI card which is designed to be used in PC computer to provide wireless network access. Normally, the EUT would be table-top. The EUT was treated as table-top equipment during testing to simulate the end user environment. EUT received it's voltage from the PC host.

Equipment Under Test

Manufacturer	Model	Description	Serial Number	FCC ID
Intel	WPCI5000	PCI Card	N/A	DoC
Intel	WM3A5000	Mini PCI card	N/A	J30WM3A5000

Antenna

The EUT uses the following external antennas:

Manufacturer	Model	Description	Serial Number	Antenna Gain (dBi)
FoxxCon	FX01A88-00	Omnidirectional antenna	-	2

The antenna connector used is non-standard antenna reverse threat connector to meet the requirements of FCC Part 15.203 and RSS-210.

EUT Enclosure

The EUT does not contain an enclosure. It relies on the host system shield. It measures approximately 1 cm wide by 20 cm deep by 5 cm high.

Modification History

Mod. #	Test	Date	Modification
1			

EE CE	lliot	t
	Client	Into

Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Emissions Spec:	FCC Part 15 B and E, RSS-210	Class:	В
Immunity Spec:	N/A	Environment:	_

Test Configuration #1

Local Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
Compaq	3563V5	Desktop PC	N/A	CNT75MDEBV5
Logitech	M-C34	Mouse	LZB83058088	DZL211146
Dell	SK-1000RE	Keyboard	GYUR105K	M950529070
GEM	DD-556AA	Monitor	H79DD-556	BDK008B0023
HP	2225C+	Printer	3028S76892	DS16XU2225
Robotics	Pilot 1000	PDA	604819965702	MQ90001

Remote Support Equipment

Manufacturer	Model	Description	Serial Number	FCC ID
None	-	-	-	-

EUT Interface Ports

		Cable(s)		
EUT Port	Connected To	Description	Shielded or Unshielded	Length(m)
Reverse SMA	Antenna	N/A	N/A	N/A

HOST Interface Ports

		Cable(s)		
HOST Port	Connected To	Description	Shielded or Unshielded	Length(m)
Mouse	Desktop	PS/2	Shielded	1.4
Keyboard	Desktop	PS/2	Shielded	1.3
VGA	Desktop	D-Sub 15	Shielded	1.5
Printer	Desktop	Parallel	Shielded	2
Palm Pilot	Desktop	Com1	Shielded	1.5

EUT Operation During Emissions Testing (Digital Testing)

Radio was set to transmitt continously. H-pattern software used to exercise the printer, serial, and display ports.

Elliott		EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

FCC Part 15 Subpart E Tests: Normal Mode

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test:	1/19/2001	Config. Used: 2
Test Engineer:	Jmartinez	Config Change: N/A
Test Location:	SVOATS# 4	Host Unit Voltage 120Vac, 60Hz

General Test Configuration

The EUT was located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT unless stated otherwise. When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions: Temperature: 8.9°C

Rel. Humidity: 89%

Summary of Results: Turbo Mode

Run #	Test Performed	Limit	Result	Comments
1	Output Power (5.15 - 5.25GHz band)		Pass	16.9 dBm
1	Output Power (5.25 - 5.35GHz band)		Pass	21.0 dBm
2	Power Spectral Density (5.15 - 5.25GHz)	15.407(a) (1)	Pass	-2.3 dBm/MHz
Power Spectral Density (5.25- 5.35GHz)		15.407(a) (2)	Pass	1.70 dBm/MHz
3	26dB Bandwidth	15.407	Pass	27.33 - 38.1 MHz
3	20 dB Bandwidth	RSS 210	Pass	17.33 - 22.5 MHz
4 Peak Excursion Envelope		15.407(a) (6)	Pass	7.42 - 7.75 dB
5	Antenna Conducted - Out of Band Spurious	15.407(b)	Pass	> -27 dBm

%	Elliott EMC Test L			
Client:	Intel Corporation	Job Number:	J45863	
Model:	WPCI5000	T-Log Number:	T45876	
		Proj Eng:	Mark Briggs	
Contact:	Robert Paxman			
Spec:	FCC Part 15 B and F RSS-210	Class.	В	

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

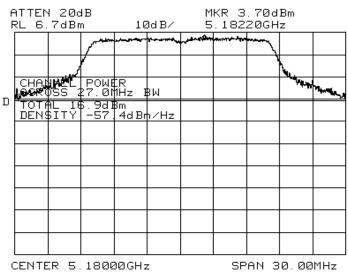
Run #1: Output Power

Antenna Gain: 2 dBi

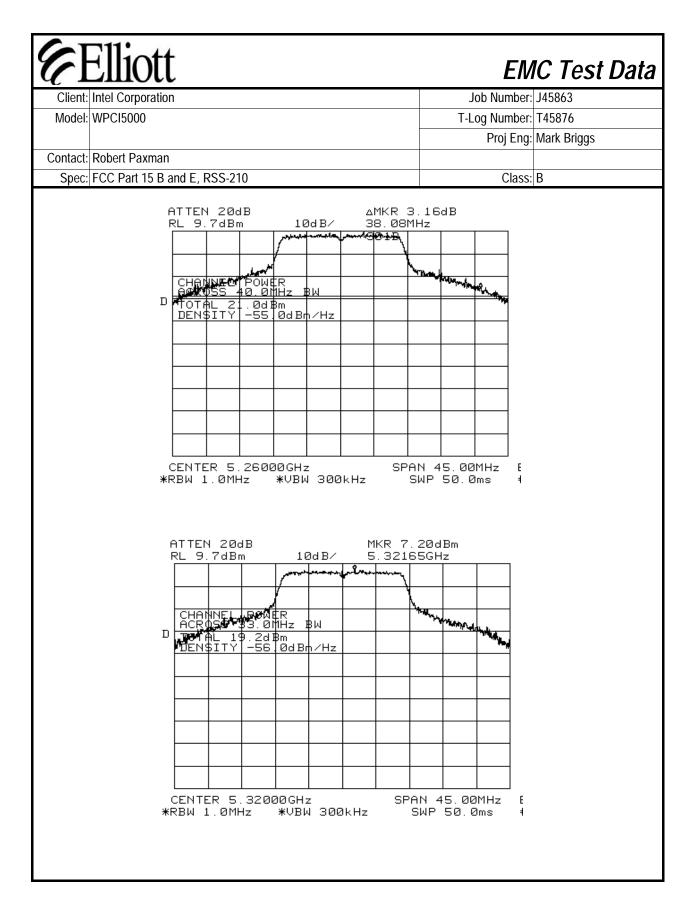
	Power (dBm)	Frequency (MHz)	VBW (kHz)	26-dB EBW	Measured Power (dBm)	FCC Limit (dBm) (note 3)
Ī	13	5180	145	27.33	16.9	17.0
	15	5260	202	38.10	21.0	24.0
ſ	13	5320	175	33.00	19.2	24.0

Measured using spectrum analyzer's power measurement function (RBW = 1MHz, VBW = (Note 2)) which summed Note 1: the power over the occupied bandwidth (26dB bandwidth).

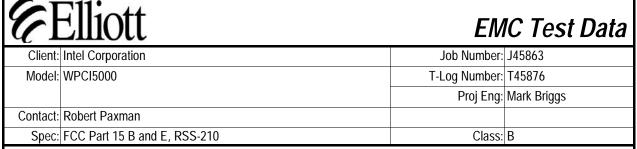
VBW was determine by the following formulas: EBW/2*pi*30 or 1/2*pi*T, whichever gives the largest VBW. Note 2:



SWP 50.0ms

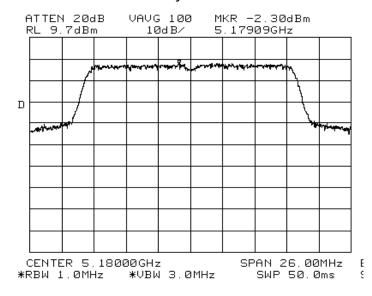


6	Ellic	ott				EM	IC Tes	t Data
Client: Intel Corporation				Jo	ob Number:	J45863		
	WPCI5000				T-Lo	og Number:	T45876	
						Proj Eng:	Mark Briggs	
Contact:	Robert Pa	ıxman				, ,	33	
	Spec: FCC Part 15 B and E, RSS-210					Class:	В	
	Run #2: Power Spectral Density							
	-	-	dBi					
	Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	FCC Limit (d	,	Densit	ver Spectral ty (dBm)	
	low	5180	-2.30	4.0			5.7	Note 1
	mid	5260	1.70	11.			0.70	Note 1
	high	5320	0.20	11.	.0	8	.87	Note 1
Note 1: Note 2:	not excee band) so r	d the maximum perm no restriction is place	ents (run #4). The peanitted average PSD of fed on the output powern the 5.15 to 5.25 GHz	10dBm (5.15 to average P	to 5.25 GHz SD with resp	band) or 1 pect to RSS	1dBm (5.25-5 5 210.	

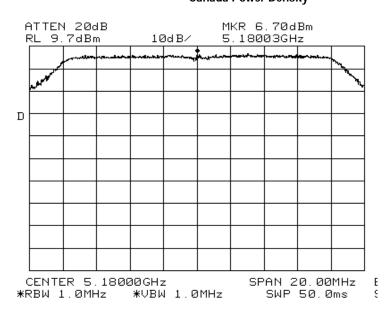


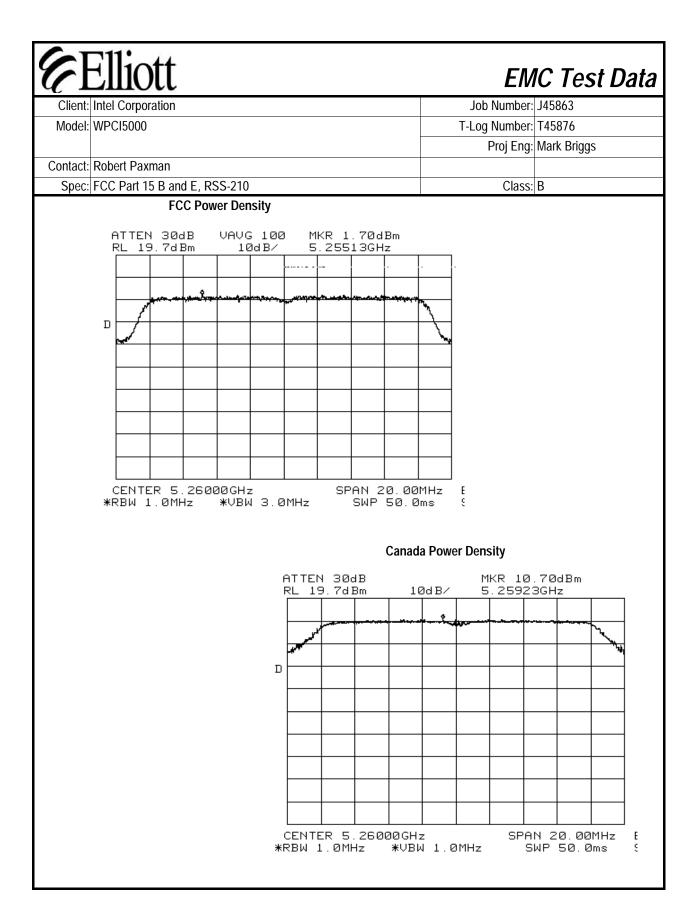
Plots Showing Power Spectral Density (RBW = 1MHz, VBW = 3 MHz, video averaging ON)

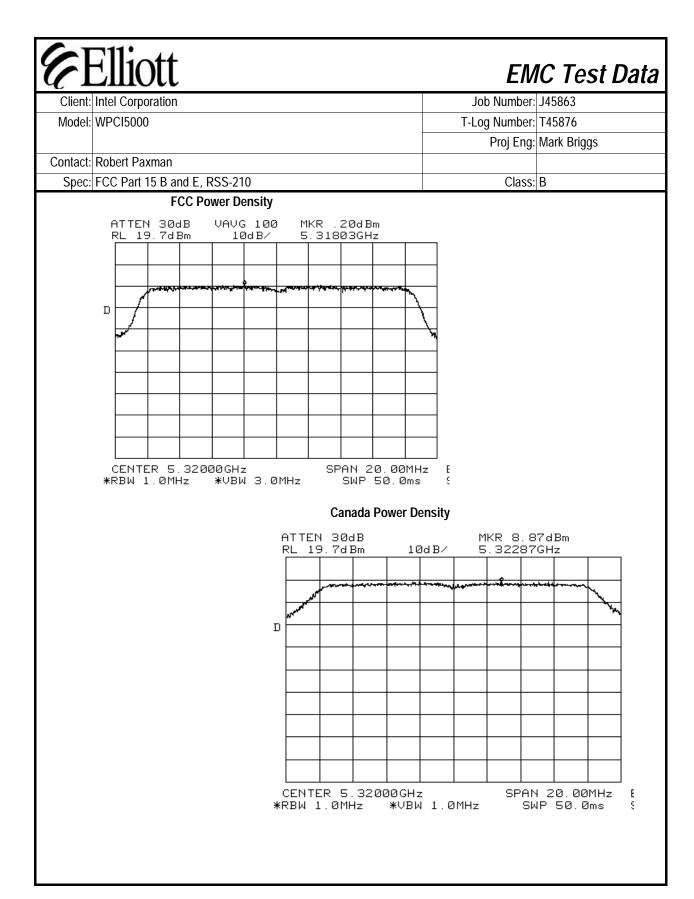
FCC Power Density



Canada Power Density







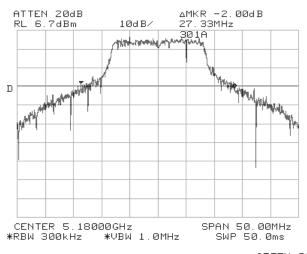


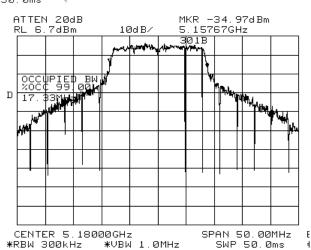
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

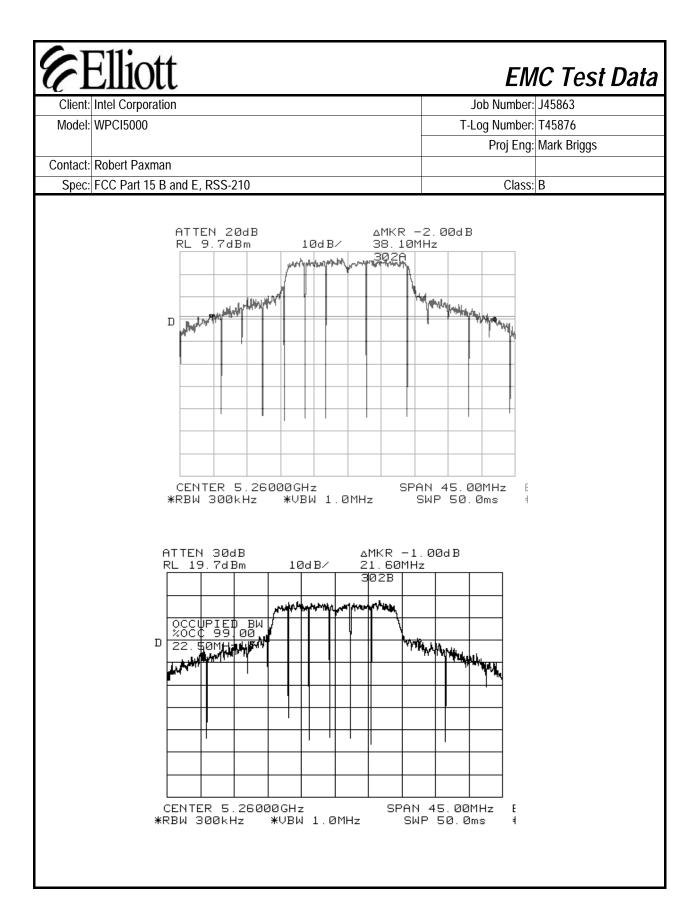
Run #3: Signal Bandwidth

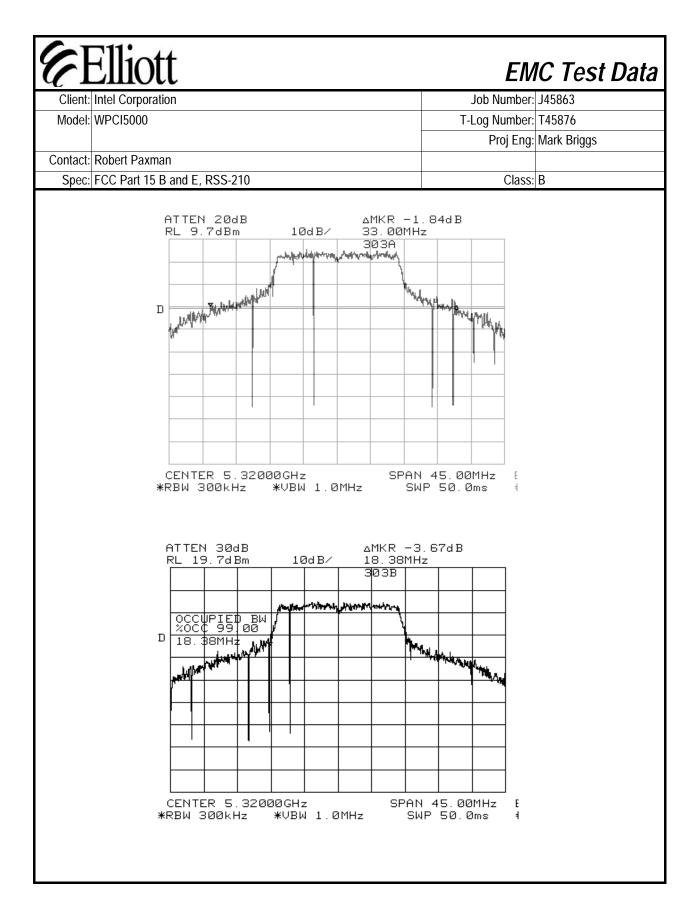
Channel	Frequency (MHz)	Resolution Bandwidth	26 dB Signal Bandwidth (MHz)	20 dB Signal Bandwidth (MHz)	Graph reference #
low	5180	300 kHz	27.33	17.33	301A and 301B
mid	5260	300 kHz	38.10	22.50	302A and 302B
high	5320	300 kHz	33.00	18.38	303A and 303B

Plots Showing Signal Bandwidth









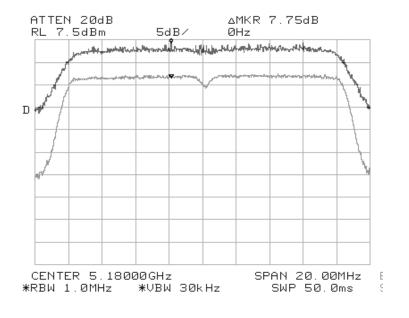
	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

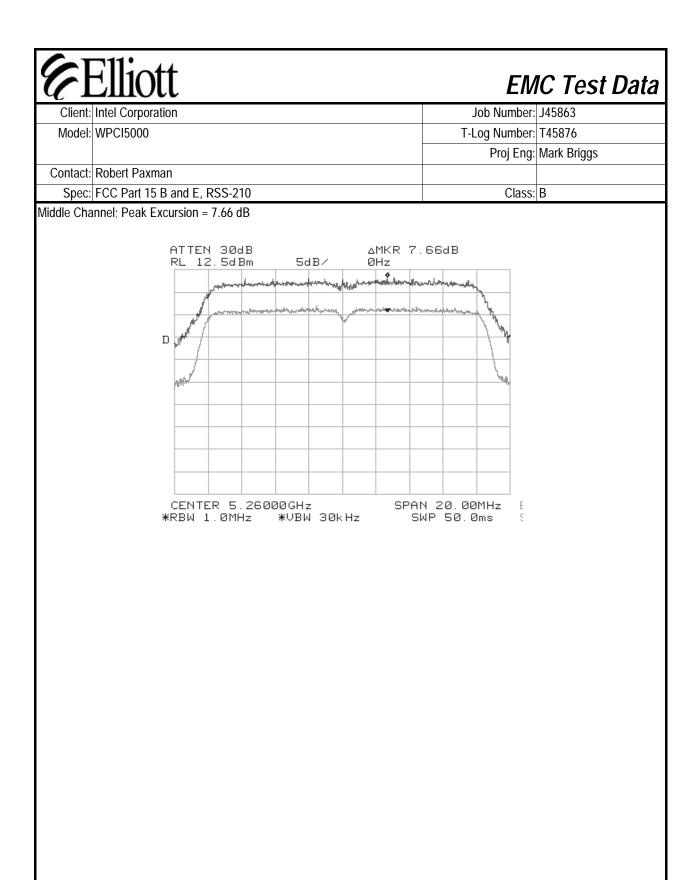
Run #4: Peak Excursion Measurement

Plots Showing Peak Excursion

Trace A: RBW = VBW = 1MHz
Trace B: RBW = 1 MHz, VBW = 30kHz

Low Channel; Peak Excursion = 7.75 dB





Eliott nt: Intel Corporation	Job Number: J45863
el: WPCI5000	T-Log Number: T45876
	Proj Eng: Mark Bri
ct: Robert Paxman	
ec: FCC Part 15 B and E, RSS-210	Class: B
annel; Peak Excursion = 7.42 dB	
ATTEN 20dB	ΔMKR 7.42dB
RL 9.7dBm 5dB/	
Mary Mary Control Cont	might fill to me man to the same the same to the man who the same to the same
Mary Commence of the State of t	and and the second
D APA /	
D /	
w.N.	4
CENTER 5.32000GHz *RBW 1.0MHz *VBW 3	SPAN 20.00MHz E }ØkHz SWP 50.0ms S
#KDW 1.8HHZ #VDW 3	TONTIZ JAI JO. BIIIS

E!	Elliott
Client:	Intel Corporation

Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

Run #5: Out Of Band Spurious Emissions - Antenna Conducted

The EIRP limit is -27dBm/MHz for all out of band signals that do not fall in restricted bands. A limit of -27 dBm was, therefore, used for signals not in restricted bands and close to the intentional band within 100 MHz of the upper and lower band edges. For signals removed from the band edge by more than 100MHz, radiated measurements were made (refer to run #6) if the signal amplitude exceeded -37dBm.

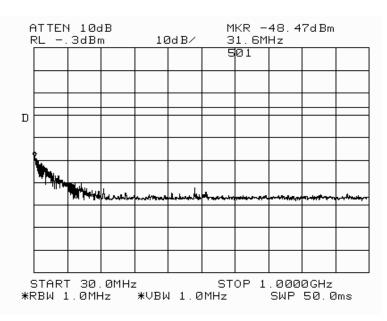
Channel	Frequency (MHz)	Frequency Range	Highest Spurious Signal	Graph reference #
		30 - 1000 MHz	Note 4	501
		1 to 5.15 GHz	3103 (Note 2), 4140 (Note 1)	502
low	5180	5.25 to 10 GHz	6208 (Note 2)	503
		10 GHz to 20 GHz	10350 (Note 3), 15530 (Note 1)	504
		20 GHz to 40 GHz	None	505
		30 - 1000 MHz	Note 4	506
	5260	1 to 5.25 GHz	3160 (Note 2), 4209 (Note 1)	507
mid		5.35 to 10 GHz	6311 (Note2)	508
		10 GHz to 20 GHz	10520 (Note 1), 15780 (Note 3)	509
		20 GHz to 40 GHz	None	510
		30 - 1000 MHz	Note 4	511
		1 to 5.30 GHz	3193 (Note 2), 4254 (Note 1)	512
high	5320	5.34 to 10 GHz	6381 (Note 2)	513
		10 GHz to 20 GHz	10630 (Note 1), 15950 (Note 1)	514
		20 GHz to 40 GHz	None	515

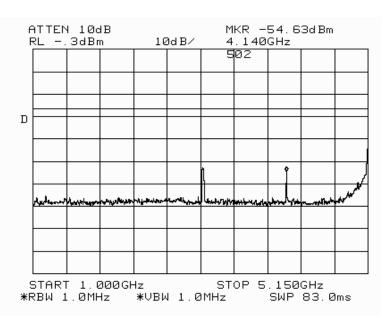
Note 1:	Signal is in a restricted band. Refer to run #6 for field strength measurements.
Note 2:	Signal is not in restricted band. Limit is -27dBm eirp. As the signal strength is significantly lower than -27dBm no
Note 2:	field strength measurements required.
Note 3:	Signal is not in restricted band. Limit is -27dBm eirp. Although the signal strength is significantly lower than -
Note 3:	27dBm field strength measurements were made (refer to run #6)
Note 4:	All spurious signals in this frequency band measured during digital device radiated emissions test.

Elliott EMC Test						
Client:	Intel Corporation	Job Number: J45863				
Model:	WPCI5000	T-Log Number: T45876				
		Proj Eng: Mark Briggs				
Contact:	Robert Paxman					
Spec:	FCC Part 15 B and E, RSS-210	Class: B				

Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)

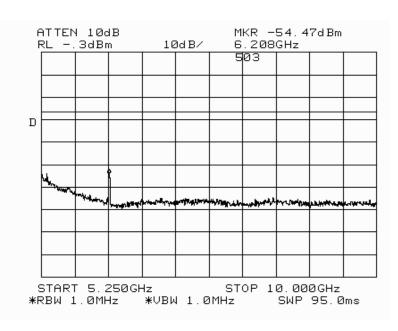
EUT operating at 5.18 GHz:

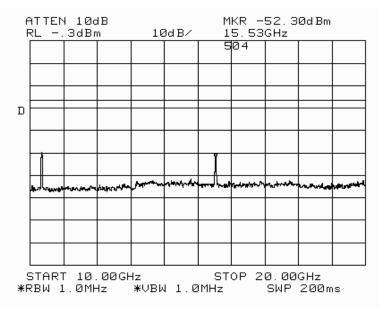




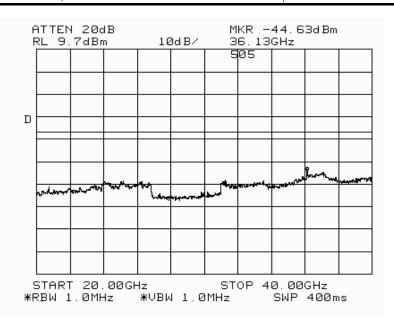


-	\$10 to \$1		
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

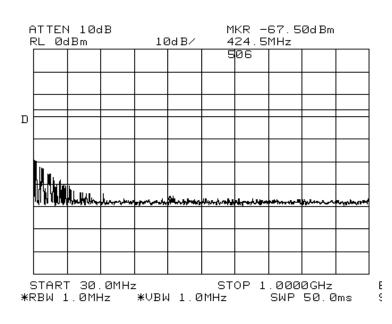


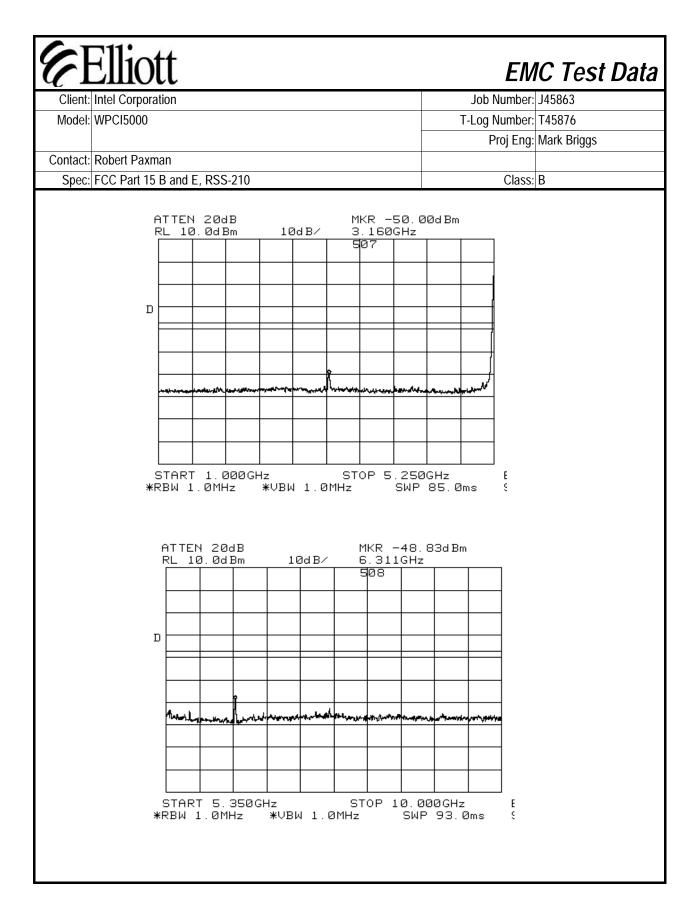


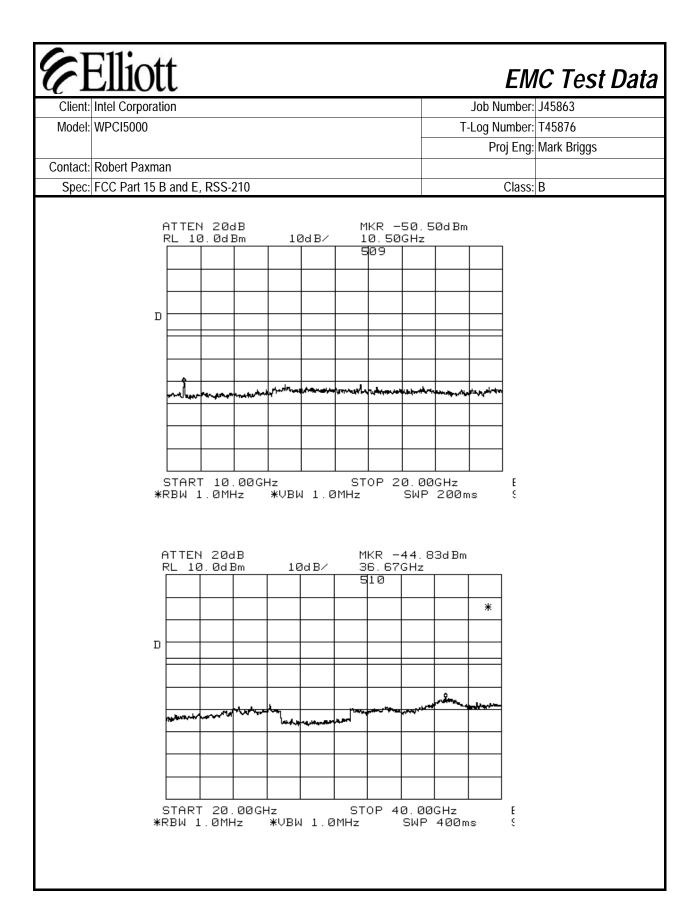
(F)	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В



EUT operating at 5.26GHz:

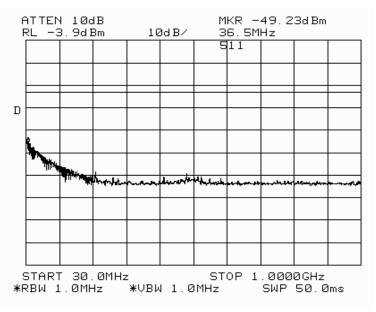


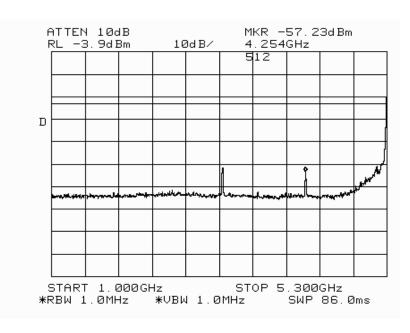




Client: Intel Corporation Client: WPCI5000 Model: WPCI5000 Contact: Robert Paxman Spec: FCC Part 15 B and E, RSS-210 EMC Test Data Job Number: J45863 T-Log Number: T45876 Proj Eng: Mark Briggs Class: B

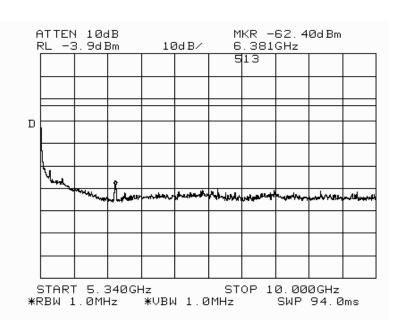
EUT operating at 5.32GHz:

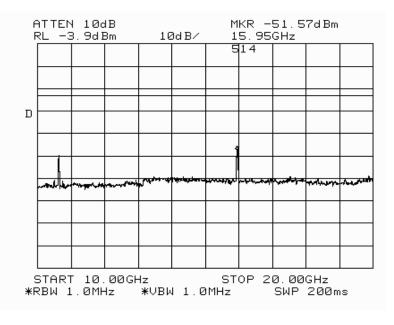


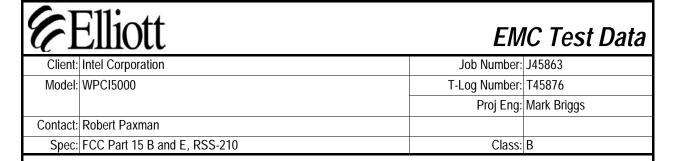


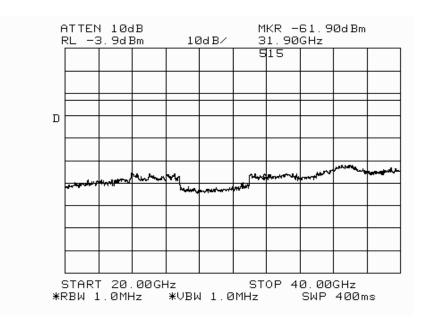


-	\$10 to \$1		
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В









(F)	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

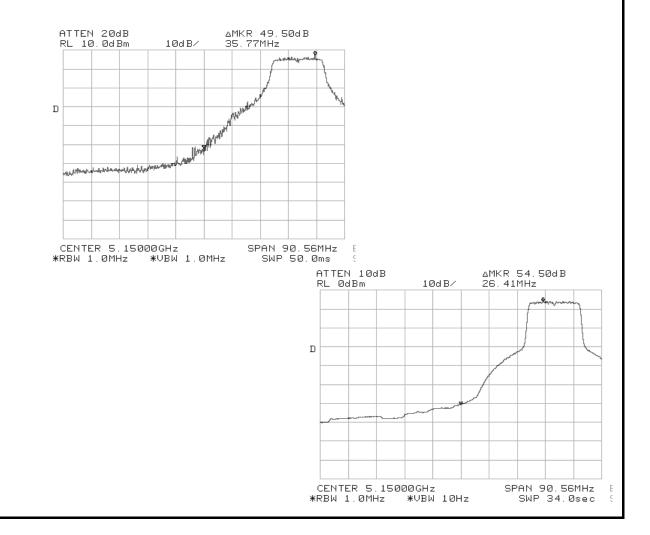
Band Edge Measurements:

For signals in the restricted bands immediately above and below the 5.15 to 5.35 GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was then applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

5.15 GHz band edge, EUT operating on the lowest channel

The highest signal within 50 MHz of the 5.15 GHz band was -49.50 dBc (Peak) / -54.50 dBc (Average)



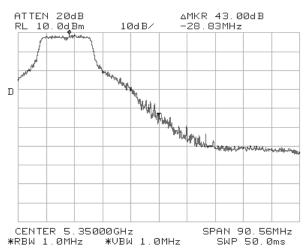
Elliott

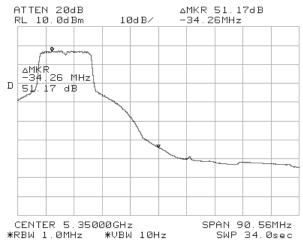
EMC Test Data

Ù			
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

5.35 GHz band edge EUT operating on the highest channel:

The highest signal in the 5.35 to 5.46 GHz band was -43.00 dBc (Peak) / -51.17 dBc (Average)





	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

FCC Part 15 Subpart E Tests

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test:	1/18/2001	Config. Used: 1
Test Engineer:	Jmartinez	Config Change: None
Test Location:	SVOATS# 4	Host Unit Voltage 120Vac, 60Hz

General Test Configuration

The EUT was located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT unless stated otherwise.

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected

Ambient Conditions: Temperature: 11°C

Rel. Humidity: 80%

Summary of Results

Run #	Test Performed	Limit	Result	Comments
6a - 6b	RE, 1000 - 40000 MHz -	15.407(b)(6)	Pass	Refer to run
0a - 0b	Spurious Emissions	13.407(b)(0)	Pass	Kelei to tuit

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

	Ellic						ı		IC Test Da
	Intel Corpo							lob Number:	
Model:	WPCI5000)					T-L	.og Number:	T45876
								Proj Eng:	Mark Briggs
Contact:	Robert Pa	xman							
Spec: FCC Part 15 B and E, RSS-210								Class:	В
Run #6a:	Radiated S	Spurious	s Emission	s, 1000 - 16	,000 MHz				
			ons in restric			n (Average)	74dBuV	/m (Peak)	
Limit for emissions outside of restricted bands: EIRP < -27dBm/MHz						(68dF	BuV/m)		
Fundamer	ıtal signal	measur	ements (to	calculate t	he band edd	ge field strei	naths):		
Frequency		Pol	15.209		Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
5179.815		V	-	-	Pk	238	1.0		ng, peak limit
5181.072		V	-	-	Avg	238	1.0		ading, average limit
5179.947	104.2	Н	-	-	Pk	0	0.0		ng, peak limit
5181.313		H	-	-	Avg	0	0.0		ading, average limit
5320.010		V	-	-	Pk	0	0.0		ng, peak limit
5321.202 5320.757	103.9 106.2	V H	-	-	Avg Pk	<u>0</u> 250	0.0 1.1		ading, average limit ng, peak limit
5320.757		<u>п</u> Н		-	Avg	250	1.1		ading, average limit
Band Edge Frequency		e ngth C Pol	alculations	15.407	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	Comments	
5150.0		V	74.0	-14.2	Pk	-	-	Note 1	
5150.0	44.9	V	54.0	-9.1	Avg	-	-	Note 1	
5150.0		h	74.0	-19.3	Pk	-	-	Note 1	
5150.0		h	54.0	-13.7	Avg	-	-	Note 1	
5350.0		V	74.0	-3.9	Pk	-	-	Note 2	
5350.0		V	54.0	-1.3	Avg	-	-	Note 2	
5350.0		h	74.0	-10.8	Pk	-	-	Note 2	
5350.0	47.3	h	54.0	-6.7	Avg	-	-	Note 2	
	relative me	easurem	ents in run	#5 (-49.50 c	dBc for peak		Bc for ave	•	calculated using the
Note 1:		ating on	highest cha	nnel availat	ole in the 5.2	5 - 5.35 MHz	band. Sig	nal level cal	culated using the rela

Client:	Intel Corp	oration					J	ob Number:	J45863
Model:	WPCI5000)					T-L	og Number:	T45876
									Mark Briggs
Contact:	ontact: Robert Paxman							-, 3	. 33
			d E, RSS-21	0				Class:	R
			s Emission		0000 MHz			Old33.	Б
rtair # ob.	radiated (pullou.	5 Eliii55ioli	3, 1000	0000 IVII IZ				
EUT On Hi	ghest Cha	nnel Av	ailable (5.3	2 GHz) (15	dBm on all	frequencies.	Testing v	vith amp M	INI-PCI card.)
	ini pci car		,			·	J	•	·
Frequency	Level	Pol	15.209	15.407	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
4256.0		V	74.0	-31.9	Pk	240	1.6		
4256.0	39.3	V	54.0	-14.7	Avg	240	1.6		
4256.0	40.7	h	74.0	-33.3	Pk	220	1.1		
4256.0	38.1	h	54.0	-15.9	Avg	220	1.1		
6384.0	43.6	V	68.3	-24.7	Note 3	135	1.0		
6384.0	38.9	h	68.3	-29.4	Note 3	335	2.0		
15960.0	68.3	h	74.0	-5.7	Pk	163	1.2		
15960.0	49.3	h	54.0	-4.7	Avg	163	1.2		
15960.0	61.6	V	74.0	-12.4	Pk	11	1.2		
15960.0	44.7	V	54.0	-9.3	Avg	11	1.2		
10640.0	56.4	V	74.0	-17.6	Pk	220	1.2		
10640.0	43.7	V	54.0	-10.3	Avg	220	1.2		
10640.0		h	74.0	-18.3	Pk	210	1.0		
10640.0		h	54.0	-12.0	Avg	210	1.0		
			ailable (5.1		1 1				
requency	Level	Pol	15.209		Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
4144.0	43.2	V	74.0	-30.9	Pk	199	1.1		
4144.0		V	54.0	-12.4	Avg	199	1.1		
4144.0		h	74.0	-33.0	Pk	124	1.1		
4144.0		h	54.0	-15.7	Avg	124	1.1		
6216.0		h	68.3	-14.8	Note 3	295	1.0		
6216.0		V	68.3	-7.4	Note 3	180	1.1		
10360.0		V	68.3	-19.8	Note 3	0	1.1		
15540.0		V	74.0	-18.7	Pk Ava	33 33	1.2 1.2		
15540.0 10360.0	50.2	v h	54.0	-13.0	Avg Note 3	222	1.2		
15540.0		h	68.3 74.0	-18.1 -12.8	Pk	222	1.1		
15540.0		h				220	1.2		
10040.0	42.4	11	54.0	-11.6	Avg	220	1.2		

Model:	Intel Corpo WPCI5000					1	J	ob Number:	J43003
							T-L	og Number:	T45876
									Mark Briggs
Contact:	Robert Pa	xman						-, 3	33*
Spec:	FCC Part	15 B and	E, RSS-2	10				Class:	В
	nter Chan					<u> </u>			
equency	Level	Pol		/ 15.407	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
4208.0	41.9	V	74.0	-32.1	Pk	245	1.4		
4208.0	40.3	٧	54.0	-13.7	Avg	245	1.4		
4208.0	41.8	h	74.0	-32.2	Pk	335	1.0		
4208.0	38.6	h	54.0	-15.4	Avg	335	1.0		
6312.0	48.8	v h	68.3	-19.5	Note 3	217	1.0		
6312.0 10520.0	44.7 48.6	V	68.3	-23.6 -19.7	Note 3 Note 3	202 12	1.1 1.1		
15780.0	60.4	V	74.0	-13.6	Pk	43	1.1		
15780.0	47.5	V	54.0	-6.5	Avg	43	1.1		
10520.0	46.7	h	68.3	-21.6	Note 3	0	1.0		
15780.0	65.8	h	74.0	-8.2	Pk	230	1.1		
15780.0	50.0	h	54.0	-4.0	Avg	230	1.1		

	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

Conducted Emissions - Power Ports

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the

specification listed above.

Date of Test: 1/25/2002 Config. Used: 1
Test Engineer: Rafael Config Change: None
Test Location: SVOATS #3 EUT Voltage: 120V/60Hz

General Test Configuration

For tabletop equipment, the host system was located on a wooden table, 40 cm from a vertical coupling plane and 80cm from the LISN. A second LISN was used for all local support equipment. Remote support equipment was located approximately 30 meters away from the test area, with all I/O connections routed overhead.

Ambient Conditions: Temperature: 10°C

Rel. Humidity: 74%

Summary of Results

Run #	Test Performed	Limit	Result	Margin
1	CE, AC Power 120V/60Hz	EN55022 B	Pass	-3.06dB @ .219MHz

Modifications Made During Testing:

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Model: WPCI5000 T-Log Number: T45876 Proj Eng: Mark Briggs	3	Intel Corpo	oration					Job Number:	J45863
Proj Eng: Mark Briggs									
Contact: Robert Paxman Spec: FCC Part 15 B and E, RSS-210 Class: B Run #1: AC Power Port Conducted Emissions, 0.15 - 30MHz, 120V/60Hz Frequency Level AC EN55022 B Detector Comments MHz dBμV Line Limit Margin QP/Ave 0.219 49.8 Neutral 52.9 -3.1 Average 0.219 49.2 Line 52.9 -3.7 Average 0.343 42.4 Neutral 49.1 -6.7 Average 0.219 49.8 Neutral 62.9 -13.1 QP 0.219 49.8 Neutral 62.9 -13.7 QP 22.860 35.3 Line 62.9 -13.7 QP 22.860 34.8 Neutral 50.0 -15.2 Average 0.343 42.4 Neutral 59.1 -16.7 QP 0.343 42.4 Neutral 59.1 -16.8 QP <		0.000							
Run #1: AC Power Port Conducted Emissions, 0.15 - 30MHz, 120V/60Hz Frequency Level AC EN55022 B Detector Comments MHz dBμV Line Limit Margin QP/Ave 0.219 49.8 Neutral 52.9 -3.1 Average 0.219 49.2 Line 52.9 -3.7 Average 0.343 42.4 Neutral 49.1 -6.7 Average 0.219 49.8 Neutral 62.9 -13.1 QP 0.219 49.2 Line 62.9 -13.7 QP 22.860 35.3 Line 50.0 -14.7 Average 22.860 34.8 Neutral 50.0 -15.2 Average 0.343 42.4 Neutral 59.1 -16.7 QP 0.343 42.3 Line 59.1 -16.8 QP 22.860 35.3 Line 60.0 -24.7 QP	Contact:	Robert Pa	xman					, ,	
Frequency Level AC EN55022 B Detector Comments MHz dBμV Line Limit Margin QP/Ave 0.219 49.8 Neutral 52.9 -3.1 Average 0.219 49.2 Line 52.9 -3.7 Average 0.343 42.4 Neutral 49.1 -6.7 Average 0.219 49.8 Neutral 62.9 -13.1 QP 0.219 49.2 Line 62.9 -13.7 QP 22.860 35.3 Line 50.0 -14.7 Average 22.860 34.8 Neutral 59.1 -16.7 QP 0.343 42.4 Neutral 59.1 -16.7 QP 0.343 42.3 Line 59.1 -16.8 QP 22.860 35.3 Line 60.0 -24.7 QP	Spec:	FCC Part	15 B and	E, RSS-21	10			Class:	В
Frequency Level AC EN55022 B Detector Comments MHz dBμV Line Limit Margin QP/Ave 0.219 49.8 Neutral 52.9 -3.1 Average 0.219 49.2 Line 52.9 -3.7 Average 0.343 42.4 Neutral 49.1 -6.7 Average 0.219 49.8 Neutral 62.9 -13.1 QP 0.219 49.2 Line 62.9 -13.7 QP 22.860 35.3 Line 50.0 -14.7 Average 22.860 34.8 Neutral 59.1 -16.7 QP 0.343 42.4 Neutral 59.1 -16.7 QP 0.343 42.3 Line 59.1 -16.8 QP 22.860 35.3 Line 60.0 -24.7 QP	D #1. A.	C Dower D	ant Cana	luated Fm:	iasiana 0.1	IE 20MII-	1201// 011-		
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22.860 35.3 Line 60.0 -24.7 QP									
22.8800 34.8 Neutral 60.0 -25.2 QP									

	Elliott	EM	IC Test Data
Client:	Intel Corporation	Job Number:	J45863
Model:	WPCI5000	T-Log Number:	T45876
		Proj Eng:	Mark Briggs
Contact:	Robert Paxman		
Spec:	FCC Part 15 B and E, RSS-210	Class:	В

Radiated Emissions

Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the

specification listed above.

Date of Test: 1/26/2002 Config. Used: 1
Test Engineer: Rafael Config Change:

Test Location: SVOATS #3 EUT Voltage: 120V/60Hz

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated emissions testing.

On the OATS, the measurement antenna was located 10 meters from the EUT for the measurement range 30 - 1000 MHz.

Note, **preliminary** testing indicates that the emissions were maximized by orientation of the EUT and elevation of the measurement antenna. **Maximized** testing indicated that the emissions were maximized by orientation of the EUT, elevation of the measurement antenna, and manipulation of the EUT's interface cables.

Ambient Conditions: Temperature: 10°C

Rel. Humidity: 74%

Summary of Results

Run #	Test Performed	Limit	Result	Margin
2	RE, 30 - 1000MHz -	EN55022 B	Pass	-3.1dB @ 797.25MHz
	Maximized Emissions			

Modifications Made During Testing:

Modifications Made are mention on each run.

Deviations From The Standard

No deviations were made from the requirements of the standard.

Proj Eng: Mark E	Proj Eng: Mark Briggs	Proj Eng: Mark Briggs			oration					J	Job Number: J45863
Contact: Robert Paxman Spec: FCC Part 15 B and E, RSS-210 Class: B	Specific Robert Paxman Robert Paxman	Contact: Robert Paxman Spec: FCC Part 15 B and E, RSS-210 Class: B	Contact:	WPCI5000)					T-L	•
Speci FCC Part 15 B and E, RSS-210 Class: B	Speci FCC Part 15 B and E, RSS-210 Class B	Class B	Contact:								Proj Eng: Mark Briggs
Run #1: Pre-liminary scan, 30-1000 MHz Vith antenna on tower Vertical Grequency Level Pol EN55022 B Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 730.770 h 37.0 -37.0 QP Signal Sub. 597.905 33.1 h 37.0 -3.9 QP 35 1.3 Chassis very sens 797.250 33.9 h 37.0 -3.1 QP 125 1.0 631.160 30.1 h 37.0 -6.9 QP 180 1.0 797.250 32.3 v 37.0 -4.7 QP 140 1.4 pplied gasket to ffront side both left and right 730.770 31.5 v 37.0 -5.5 QP 300 1.4 Signal Sub. Run #2: Maximized Readings From Run #1	m #1: Pre-liminary scan, 30-1000 MHz m #2: Maximized Readings From Run #1 m #2: Maximized Readings From Run #1 m #2: Maximized Readings From Run #1 m #3: N = 1.0 m #3: N =	Run #1: Pre-liminary scan, 30-1000 MHz		Robert Pa	xman						
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730.770 29.1 V 37.0 -7.9 QP 125 1.0 Signal Sub.			MHz 797.250 597.905 797.250 730.770 631.160	33.9 33.1 32.3 31.5 30.1	h h v v	37.0 37.0 37.0 37.0 37.0	-3.1 -3.9 -4.7 -5.5 -6.9	QP QP QP QP QP	125 35 140 300 180	1.0 1.3 1.4 1.4 1.0	Signal Sub.
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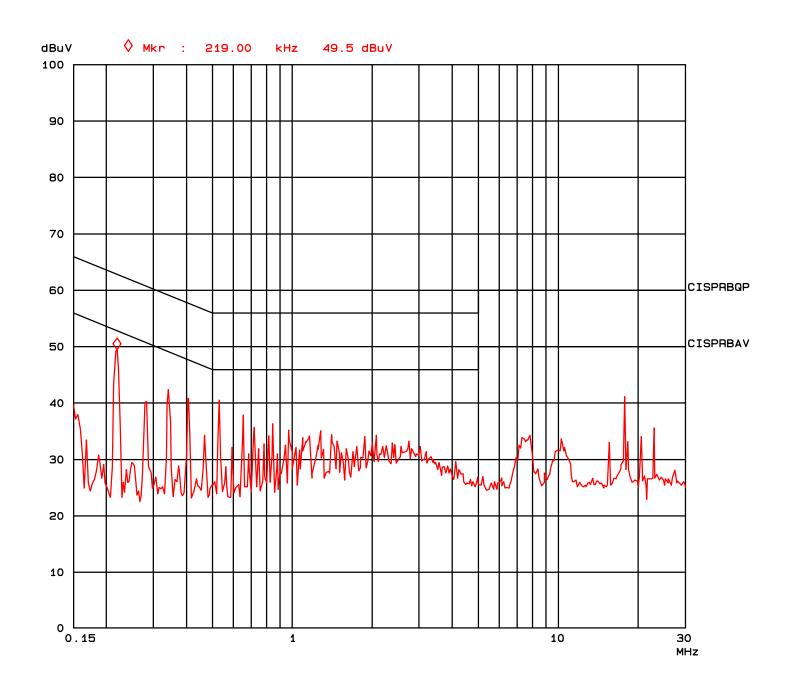
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WM3A5000 w/ PCI cardin Desktop

T45876, J45836 [] Line [X] Neutral E=EUT, A=Ambient

120V/60Hz



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WM3A5000 w/ PCI cardin Desktop

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