



FCC TEST REPORT

REPORT NO.: RF910418R02

MODEL NO.: AP1210

RECEIVED: April 18, 2002

TESTED: May 6 ~ 11, 2002

APPLICANT: Intel Corporation

ADDRESS: 5200 N.E. Elam Young Parkway Hillsboro,
OR 97124-6497

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

This test report consists of 49 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CNLA, NVLAP or any government agencies. The test results in the report only apply to the tested sample.



0528
ILAC MRA



Lab Code: 200102-0

Table of Contents

1	CERTIFICATION.....	4
2	SUMMARY OF TEST RESULTS	5
3	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	7
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS.....	7
3.4	DESCRIPTION OF SUPPORT UNITS.....	8
4	TEST TYPES AND RESULTS	9
4.1	CONDUCTED EMISSION MEASUREMENT.....	9
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	9
4.1.2	TEST INSTRUMENTS	9
4.1.3	TEST PROCEDURES.....	10
4.1.4	TEST SETUP	10
4.1.5	EUT OPERATING CONDITIONS.....	11
4.1.6	TEST RESULTS	12
4.2	RADIATED EMISSION MEASUREMENT	18
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	18
4.2.2	TEST INSTRUMENTS	19
4.2.3	TEST PROCEDURES.....	20
4.2.4	TEST SETUP	21
4.2.5	EUT OPERATING CONDITIONS.....	21
4.2.6	TEST RESULTS	22
4.3	6dB BANDWIDTH MEASUREMENT	27
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	27
4.3.2	TEST INSTRUMENTS	27
4.3.3	TEST PROCEDURE	28
4.3.4	TEST SETUP	28
4.3.5	EUT OPERATING CONDITIONS.....	28
4.3.6	TEST RESULTS	29
4.4	MAXIMUM PEAK OUTPUT POWER.....	33
4.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	33
4.4.2	INSTRUMENTS.....	33
4.4.3	TEST PROCEDURES.....	34
4.4.4	TEST SETUP	34
4.4.5	EUT OPERATING CONDITIONS.....	34
4.4.6	TEST RESULTS	35
4.5	POWER SPECTRAL DENSITY MEASUREMENT	36
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT.....	36
4.5.2	TEST INSTRUMENTS	36
4.5.3	TEST PROCEDURE	37
4.5.4	TEST SETUP.....	37
4.5.5	EUT OPERATING CONDITION	37
4.5.6	TEST RESULTS	38
4.6	BAND EDGES MEASUREMENT.....	42



4.6.1	LIMITS OF BAND EDGES MEASUREMENT	42
4.6.2	TEST INSTRUMENTS	42
4.6.3	TEST PROCEDURE	42
4.6.4	EUT OPERATING CONDITION	43
4.6.5	TEST RESULTS	43
4.7	ANTENNA REQUIREMENT	46
4.7.1	STANDARD APPLICABLE	46
4.7.2	ANTENNA CONNECTED CONSTRUCTION	46
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	47
6	INFORMATION ON THE TESTING LABORATORIES.....	49



1 CERTIFICATION

PRODUCT : Intel Wireless Gateway II
BRAND NAME : Intel
MODEL NO. : AP1210
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992, Canada RSS 210,
New Zealand RFS 29

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from May 6 ~ May 11, 2002. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Bunny Yao, DATE: May 20, 2002
Bunny Yao

CHECKED BY: Demi Chen, DATE: May 20, 2002
Demi Chen

APPROVED BY: Alan Lane, DATE: May 20, 2002
Dr. Alan Lane
Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is -7.76dBuV at 1.566MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -3.5dBuV at 375.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Intel Wireless Gateway II
MODEL NO.	AP1210
POWER SUPPLY	5.0VDC from AC adapter
MODULATION TYPE	DSSS
TRANSFER RATE	1/2/5.5/11/22Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	18.23dBm
ANTENNA TYPE	Dipole antenna
POWER CABLE	1.8m (Nonshielded)
I/O PORTS	RJ45 port, WAN port
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT is operated with the following power adapter.

Brand :	DELTA
Model No. :	ADP-10SB REV.H
Input Power :	100 - 240V ~0.4A 50-60Hz
Output Power :	5V, 2A

2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided in this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

NOTE:

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Intel Wireless Gateway II. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C. (15.247)

ANSI C63.4 : 1992, Canada RSS 210, New Zealand RFS 29

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PERSONAL COMPUTER	HP	Brio BA410	SG12902766	FCC DoC APPROVED
2	MONITOR	ADI	CM100	026058-TE0200611A	FCC DoC APPROVED
3	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC APPROVED
4	MODEM	ACEEX	1414	980020510	IFAXDM1414
5	PS/2 KEYBOARD	BTC	5121W	A00801156	E5XKB5121WT H0110
6	PS/2 MOUSE	COMPAQ	M-S48a	F22420C5BINOOK4	JNZ201213
7	NOTEBOOK	Dell	PP01L	TW-09C748-12800-19O-B220	FCC DoC APPROVED
8	USB 10/100 FAST ETHERNET	D-Link	DU-E100	UR15001597	NA
9	WIRELESS LAN CARD	Gemtek	WL-211F	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
4	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
5	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
6	NA
7	NA
8	NA
9	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.45 – 30	48	-

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

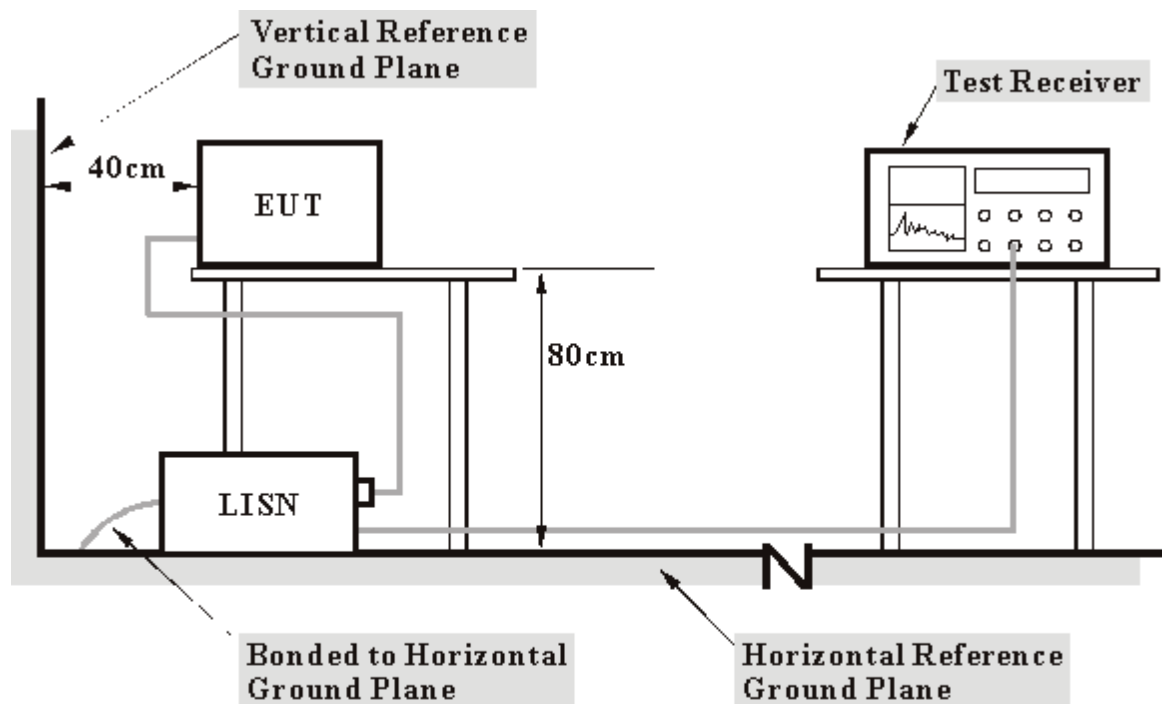
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	845552/004	May. 22, 2002
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 19, 2002
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Dec. 2, 2002
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Dec. 2, 2002
EMCO-L.I.S.N. (for peripheral)	3825/2	90031627	July 19, 2002
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 19, 2002
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 20, 2003
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	Feb. 20, 2003
Shielded Room	Site 5	ADT-C05	NA
VCCI Site Registration No.	Site 5	C-1093	NA

- NOTE: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. “*”: These equipment are used for conducted telecom port test only (if tested).

4.1.3 TEST PROCEDURES

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 450 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



4.1.5 EUT OPERATING CONDITIONS

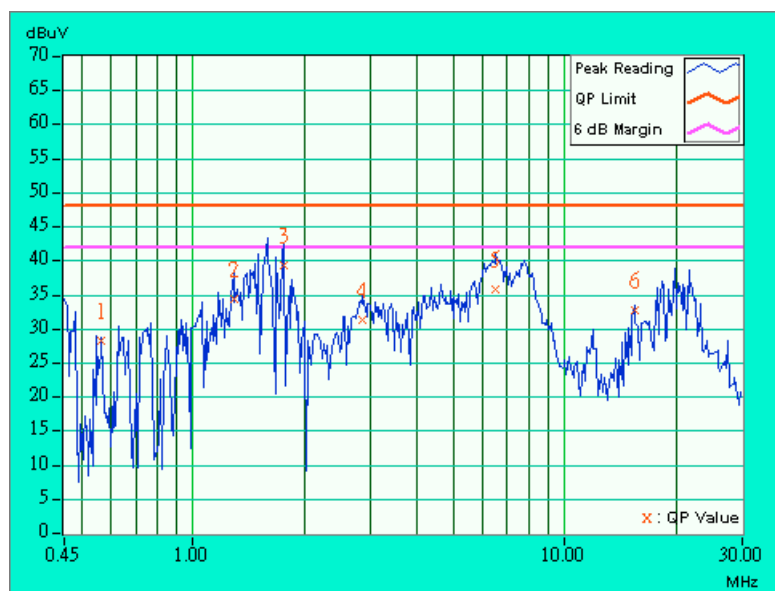
- a. Placed the EUT (with a computer system) on the testing table.
- b. The computer system sent data to EUT by command "PIN" via an RJ 45 cable.
- c. The computer system sent "H" messages to Color Monitor and Monitor displayed "H" patterns on its screen.
- d. The computer system sent "H" messages to modem.
- e. The computer system sent "H" messages to printer, and the printer prints them on paper.
- f. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- g. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ 45 cable.
- h. The communication partner sent data to EUT by command "PIN".

4.1.6 TEST RESULTS

EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.563	0.13	27.49	-	27.62	-	48.00	-	-20.38	-
2	1.285	0.20	33.57	-	33.77	-	48.00	-	-14.23	-
3	1.754	0.20	38.73	-	38.93	-	48.00	-	-9.07	-
4	2.840	0.28	30.55	-	30.83	-	48.00	-	-17.17	-
5	6.477	0.48	35.11	-	35.59	-	48.00	-	-12.41	-
6	15.473	0.73	31.93	-	32.66	-	48.00	-	-15.34	-

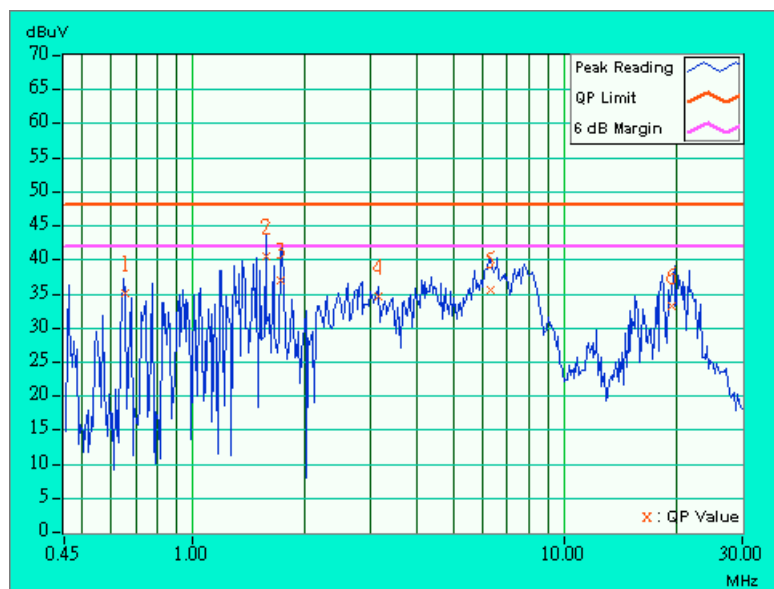
- Remarks:
1. "x": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	34.35	-	34.49	-	48.00	-	-13.51	-
2	1.566	0.20	39.68	-	39.88	-	48.00	-	-8.12	-
3	1.723	0.20	36.19	-	36.39	-	48.00	-	-11.61	-
4	3.164	0.26	33.80	-	34.06	-	48.00	-	-13.94	-
5	6.305	0.34	34.75	-	35.09	-	48.00	-	-12.91	-
6	19.465	0.77	32.36	-	33.13	-	48.00	-	-14.87	-

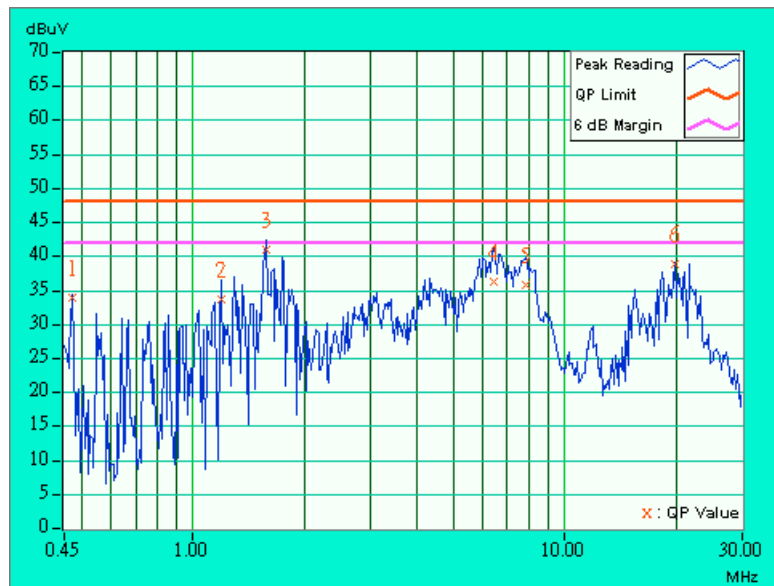
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.473	0.11	32.97	-	33.08	-	48.00	-	-14.92	-
2	1.191	0.20	32.66	-	32.86	-	48.00	-	-15.14	-
3	1.566	0.20	40.04	-	40.24	-	48.00	-	-7.76	-
4	6.438	0.48	35.37	-	35.85	-	48.00	-	-12.15	-
5	7.828	0.53	34.91	-	35.44	-	48.00	-	-12.56	-
6	19.711	0.98	37.96	-	38.94	-	48.00	-	-9.06	-

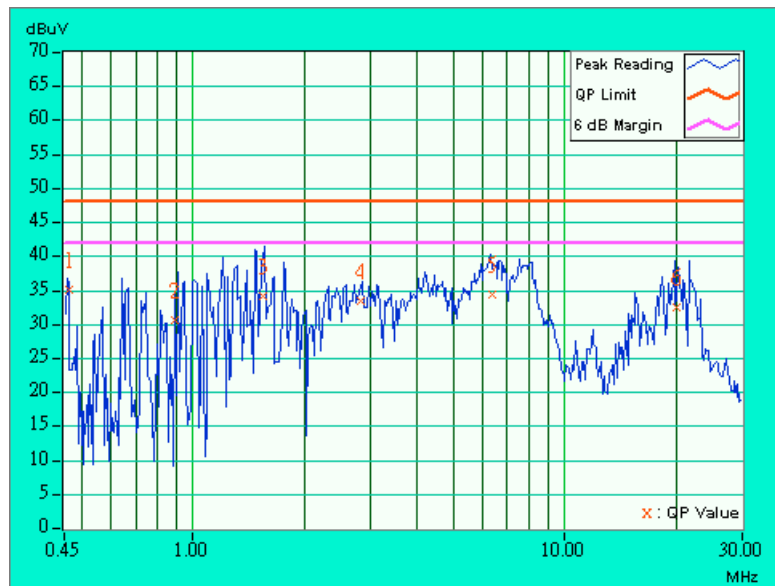
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.462	0.11	34.35	-	34.46	-	48.00	-	-13.54	-
2	0.895	0.18	29.88	-	30.06	-	48.00	-	-17.94	-
3	1.543	0.20	33.45	-	33.65	-	48.00	-	-14.35	-
4	2.816	0.24	32.68	-	32.92	-	48.00	-	-15.08	-
5	6.367	0.34	33.56	-	33.90	-	48.00	-	-14.10	-
6	20.016	0.80	31.82	-	32.62	-	48.00	-	-15.38	-

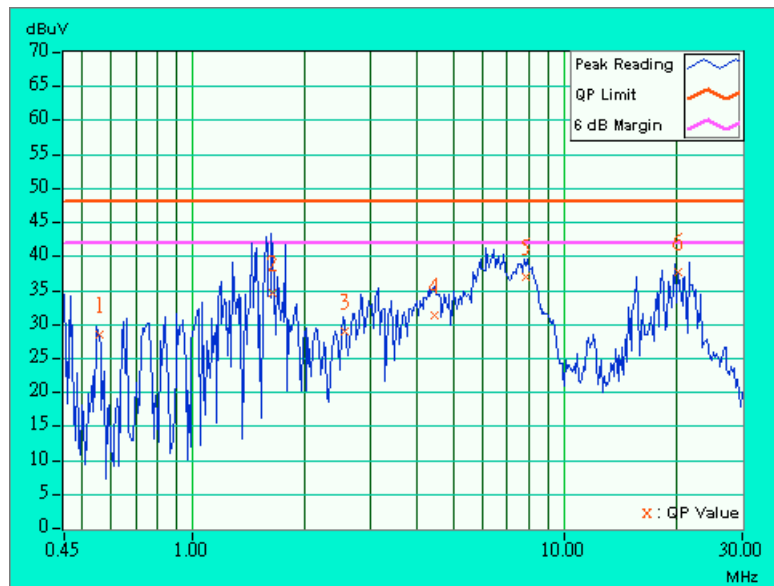
- Remarks:
1. "": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.559	0.13	27.47	-	27.60	-	48.00	-	-20.40	-
2	1.641	0.20	33.70	-	33.90	-	48.00	-	-14.10	-
3	2.547	0.25	28.02	-	28.27	-	48.00	-	-19.73	-
4	4.438	0.41	30.39	-	30.80	-	48.00	-	-17.20	-
5	7.875	0.53	36.02	-	36.55	-	48.00	-	-11.45	-
6	20.258	1.01	36.73	-	37.74	-	48.00	-	-10.26	-

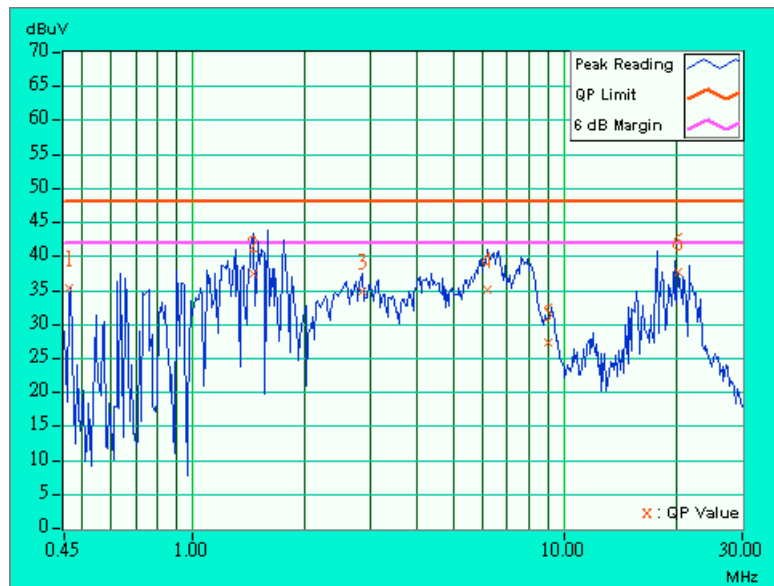
- Remarks:
1. "": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.462	0.11	34.57	-	34.68	-	48.00	-	-13.32	-
2	1.449	0.20	36.60	-	36.80	-	48.00	-	-11.20	-
3	2.852	0.24	34.09	-	34.33	-	48.00	-	-13.67	-
4	6.207	0.34	34.39	-	34.73	-	48.00	-	-13.27	-
5	9.059	0.38	26.63	-	27.01	-	48.00	-	-20.99	-
6	20.258	0.79	36.83	-	37.62	-	48.00	-	-10.38	-

- Remarks:
1. "": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength of Fundamental	
	uV/m	dBuV/m
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* HP Spectrum Analyzer	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Oct. 29, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 8, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
* Antenna (Horn)	BBHA9120-D	D130	July 10, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA
Site Registration No.	FCC: 90422 Canada IC: IC 3789 VCCI : R-1039		

NOTE: 1.The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. "*" = These equipments are used for the final measurement.



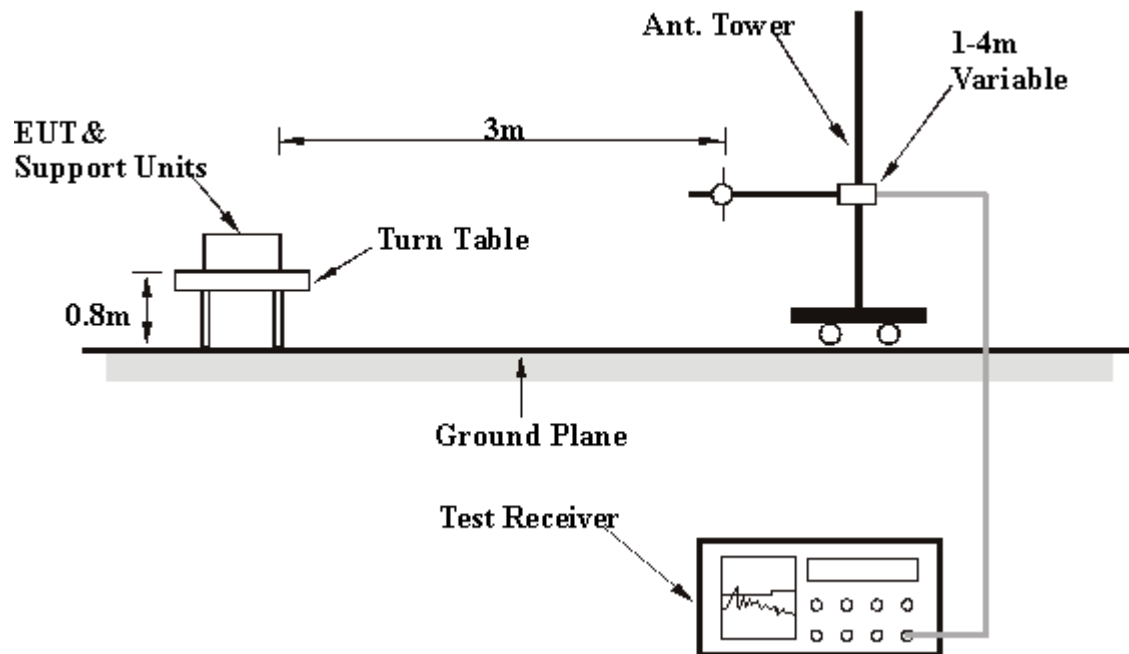
4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.

4.2.6 TEST RESULTS

EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	24.0 QP	43.50	-19.50	1.68H	248	38.30	11.47	1.23	27.00	14.30
2	150.00	20.0 QP	43.50	-23.50	1.71H	118	35.39	10.30	1.31	27.00	15.39
3	200.00	27.0 QP	43.50	-16.50	1.59H	2	43.62	8.98	1.40	27.00	16.62.
4	220.00	26.3 QP	46.00	-19.70	1.20H	358	41.66	10.12	1.53	27.00	15.37
5	225.00	20.3 QP	46.00	-25.70	1.89H	10	35.34	10.41	1.56	27.00	15.05
6	250.00	35.7 QP	46.00	-10.30	1.76H	83	48.95	12.02	1.73	27.00	13.26
7	300.00	30.0 QP	46.00	-16.00	1.46H	53	41.94	13.18	1.88	27.00	11.95
8	325.00	29.3 QP	46.00	-16.70	1.06H	70	40.57	13.72	2.00	27.00	11.28
9	350.00	23.8 QP	46.00	-22.20	1.02H	24	34.47	14.21	2.12	27.00	10.68
10	375.00	42.5 QP	46.00	-3.50	1.00H	88	52.23	15.13	2.14	27.00	9.74
11	400.00	30.0 QP	46.00	-16.00	1.10H	51	38.72	16.11	2.17	27.00	8.73
12	425.00	30.5 QP	46.00	-15.50	1.72H	107	39.01	16.24	2.26	27.00	8.52
13	450.00	22.1 QP	46.00	-23.90	1.72H	79	30.39	16.37	2.34	27.00	8.29
14	500.00	38.0 QP	46.00	-8.00	1.63H	188	45.25	17.26	2.49	27.00	7.25
15	575.00	28.0 QP	46.00	-18.00	1.73H	124	33.93	18.28	2.79	27.00	5.94
16	600.00	24.0 QP	46.00	-22.00	1.73H	32	29.54	18.61	2.85	27.00	5.54
17	625.00	28.3 QP	46.00	-17.70	1.90H	99	33.45	18.91	2.94	27.00	5.15
18	650.00	26.8 QP	46.00	-19.20	1.69H	34	31.54	19.23	3.03	27.00	4.74
19	675.00	29.8 QP	46.00	-16.20	1.12H	86	34.39	19.27	3.14	27.00	4.59
20	700.00	31.0 QP	46.00	-15.00	1.12H	153	35.45	19.31	3.24	27.00	4.46
21	725.00	28.5 QP	46.00	-17.50	1.33H	74	32.45	19.76	3.29	27.00	3.96
22	725.00	28.5 QP	46.00	-17.50	1.33H	49	32.45	19.76	3.29	27.00	3.96
23	750.00	36.0 QP	46.00	-10.00	1.13H	207	39.48	20.18	3.34	27.00	3.49
24	775.00	24.0 QP	46.00	-22.00	1.37H	191	27.22	20.43	3.35	27.00	3.23
25	800.00	27.8 QP	46.00	-18.20	1.09H	6	30.74	20.69	3.38	27.00	2.94
26	825.00	27.3 QP	46.00	-18.70	1.13H	71	30.22	20.58	3.49	27.00	2.92
27	850.00	28.0 QP	46.00	-18.00	1.06H	162	30.91	20.48	3.61	27.00	2.92
28	875.00	29.0 QP	46.00	-17.00	1.00H	103	31.73	20.63	3.63	27.00	2.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	20.0 QP	43.50	-23.50	1.33V	50	35.39	10.30	1.31	27.00	15.39
2	200.00	23.0 QP	43.50	-20.50	1.19V	31	39.62	8.98	1.40	27.00	16.63
3	225.00	19.8 QP	46.00	-26.20	1.27V	55	34.84	10.41	1.56	27.00	15.04
4	250.00	35.8 QP	46.00	-10.20	1.33V	4	49.05	12.02	1.73	27.00	13.25
5	275.00	23.5 QP	46.00	-22.50	1.47V	73	36.12	12.59	1.79	27.00	12.62
6	300.00	24.3 QP	46.00	-21.70	1.18V	274	36.24	13.18	1.88	27.00	11.94
7	325.00	31.5 QP	46.00	-14.50	1.64V	299	42.77	13.72	2.00	27.00	11.27
8	350.00	26.8 QP	46.00	-19.20	1.73V	3	37.47	14.21	2.12	27.00	10.67
9	375.00	38.6 QP	46.00	-7.40	2.12V	233	48.33	15.13	2.14	27.00	9.74
10	400.00	20.0 QP	46.00	-26.00	2.17V	95	28.72	16.11	2.17	27.00	8.73
11	425.00	32.0 QP	46.00	-14.00	1.48V	51	40.51	16.24	2.26	27.00	8.52
12	450.00	26.3 QP	46.00	-19.70	1.16V	115	34.59	16.37	2.34	27.00	8.30
13	475.00	26.4 QP	46.00	-19.60	1.01V	64	34.15	16.83	2.42	27.00	7.76
14	500.00	36.0 QP	46.00	-10.00	1.10V	359	43.25	17.26	2.49	27.00	7.26
15	525.00	26.8 QP	46.00	-19.20	1.36V	56	33.60	17.59	2.61	27.00	6.81
16	550.00	23.0 QP	46.00	-23.00	1.62V	26	29.35	17.93	2.72	27.00	6.36
17	575.00	27.6 QP	46.00	-18.40	1.28V	57	33.53	18.28	2.79	27.00	5.94
18	600.00	32.0 QP	46.00	-14.00	1.00V	3	37.54	18.61	2.85	27.00	5.54
19	625.00	33.0 QP	46.00	-13.00	1.00V	68	38.15	18.91	2.94	27.00	5.16
20	650.00	25.0 QP	46.00	-21.00	1.00V	4	29.74	19.23	3.03	27.00	4.75
21	700.00	26.0 QP	46.00	-20.00	1.02V	64	30.45	19.31	3.24	27.00	4.46
22	725.00	25.0 QP	46.00	-21.00	1.00V	33	28.95	19.76	3.29	27.00	3.96
23	750.00	28.3 QP	46.00	-17.70	1.09V	25	31.78	20.18	3.34	27.00	3.49
24	875.00	27.0 QP	46.00	-19.00	1.11V	3	29.73	20.63	3.63	27.00	2.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2412.0	93.8 PK	-	-	1.47H	3	61.62	27.11	5.10	0.00	-32.21
2	*2412.0	89.0 AV	-	-	1.47H	3	56.80	27.11	5.10	0.00	-32.21
3	4824.0	48.0 PK	74.00	-26.00	1.34H	89	44.01	31.43	7.23	34.63	-4.02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2412.0	102.8 PK	-	-	1.10V	3	70.59	27.11	5.10	0.00	-32.21
2	*2412.0	96.5 AV	-	-	1.10V	3	64.30	27.11	5.10	0.00	-32.21
3	4824.0	50.1 PK	74.00	-23.90	1.69V	21	46.11	31.43	7.23	34.63	-4.02

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2437.0	95.5 PK	-	-	1.47H	36	63.27	27.11	5.10	0.00	-32.21
2	*2437.0	89.0 AV	-	-	1.47H	1	56.80	27.11	5.10	0.00	-32.21
3	4874.0	48.5 PK	74.00	-25.50	1.95H	191	44.43	31.47	7.21	34.63	-4.05

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2437.0	102.4 PK	-	-	1.03V	3	70.00	27.33	5.08	0.00	-32.40
2	*2437.0	96.2 AV	-	-	1.03V	3	63.80	27.33	5.08	0.00	-32.40
3	4874.0	49.1 PK	74.00	-24.90	1.87V	4	45.00	31.47	7.21	34.63	-4.05

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

EUT	Intel Wireless Gateway II	MODEL	AP1210
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2462.0	95.0 PK	-	-	1.50H	7	62.59	27.33	5.08	0.00	-32.40
2	*2462.0	89.1 AV	-	-	1.50H	7	56.70	27.33	5.08	0.00	-32.40
3	4924.0	48.4 PK	74.00	-25.60	1.61H	107	44.30	31.51	7.21	34.62	-4.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	*2462.0	102.7 PK	-	-	1.05V	126	70.26	27.33	5.08	0.00	-32.40
2	*2462.0	96.3 AV	-	-	1.05V	66	63.90	27.33	5.08	0.00	-32.40
3	4924.0	50.6 PK	74.00	-23.40	1.00V	234	46.50	31.51	7.21	34.62	-4.10

- NOTE:**
1. Emission level= Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



4.3.5 EUT OPERATING CONDITIONS

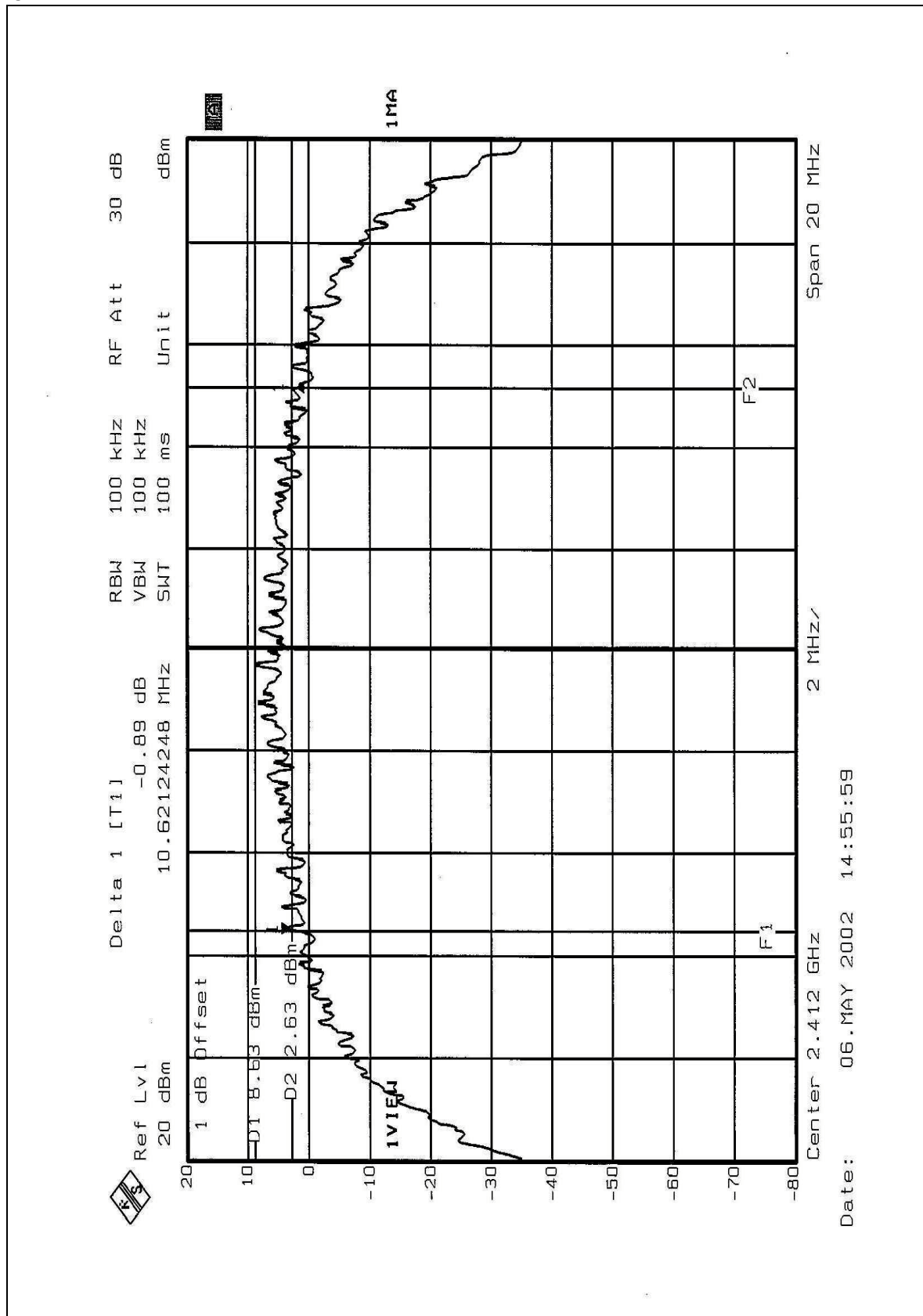
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.6 TEST RESULTS

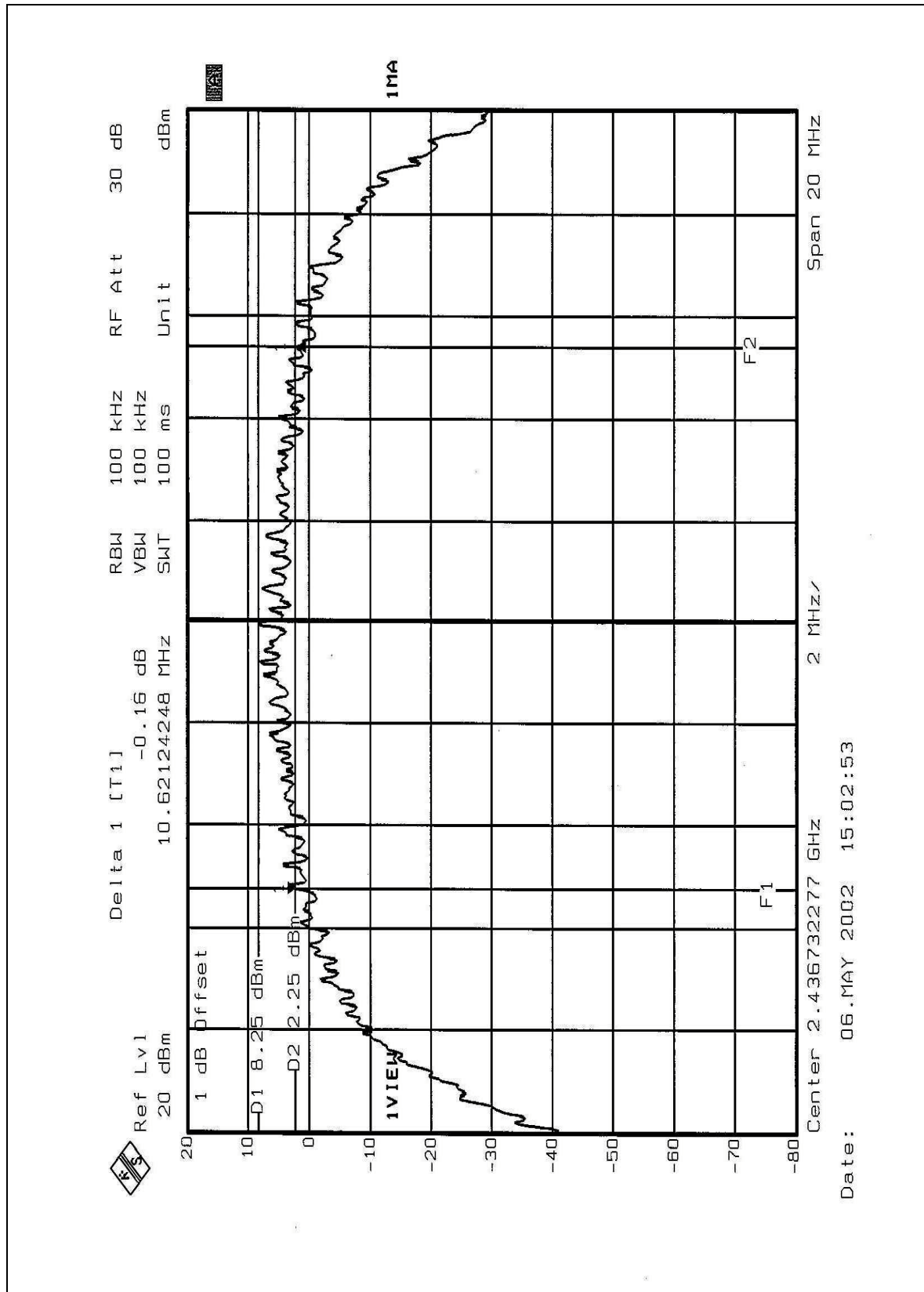
EUT	Intel Wireless Gateway II	MODEL	AP1210
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 55 %RH, 1005 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.621	0.5	PASS
6	2437	10.621	0.5	PASS
11	2462	11.142	0.5	PASS

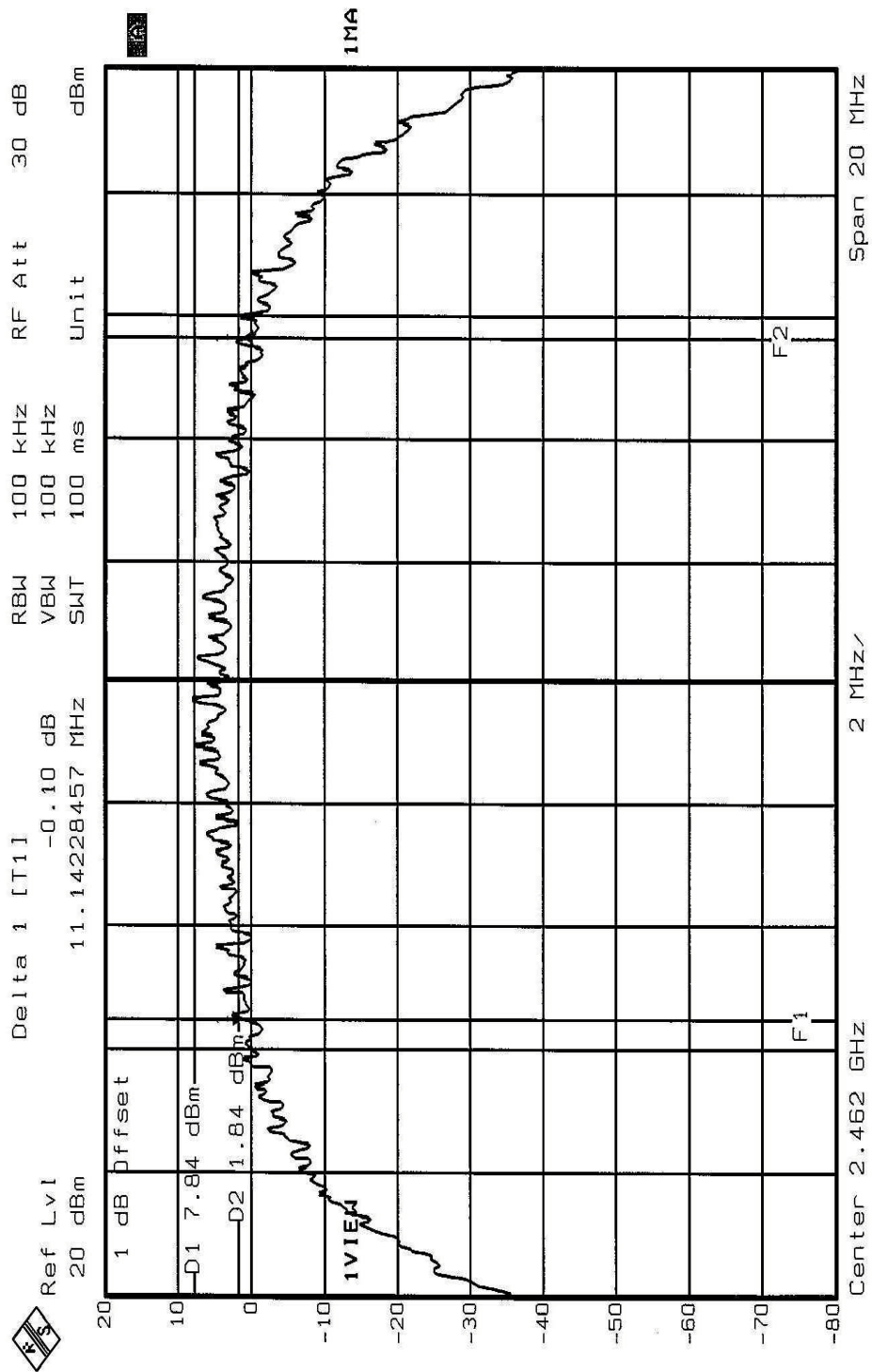
CH1



CH6



CH11



Date: 06.MAY 2002 14:47:33

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
PEAK POWER SENSOR	NRV-Z32	100013	Feb. 21, 2003
POWER METER	NRVS	100026	Feb. 21, 2003

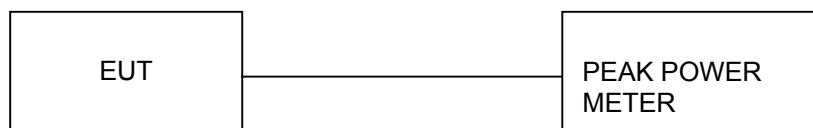
NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST PROCEDURES

1. The transmitter output was connected to the peak power meter.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 3.4.5

4.4.6 TEST RESULTS

EUT	Intel Wireless Gateway II	MODEL	AP1210
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 55 %RH, 1005 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	18.23	30	PASS
6	2437	17.99	30	PASS
11	2462	17.94	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

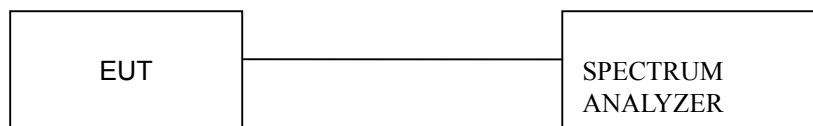
1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITION

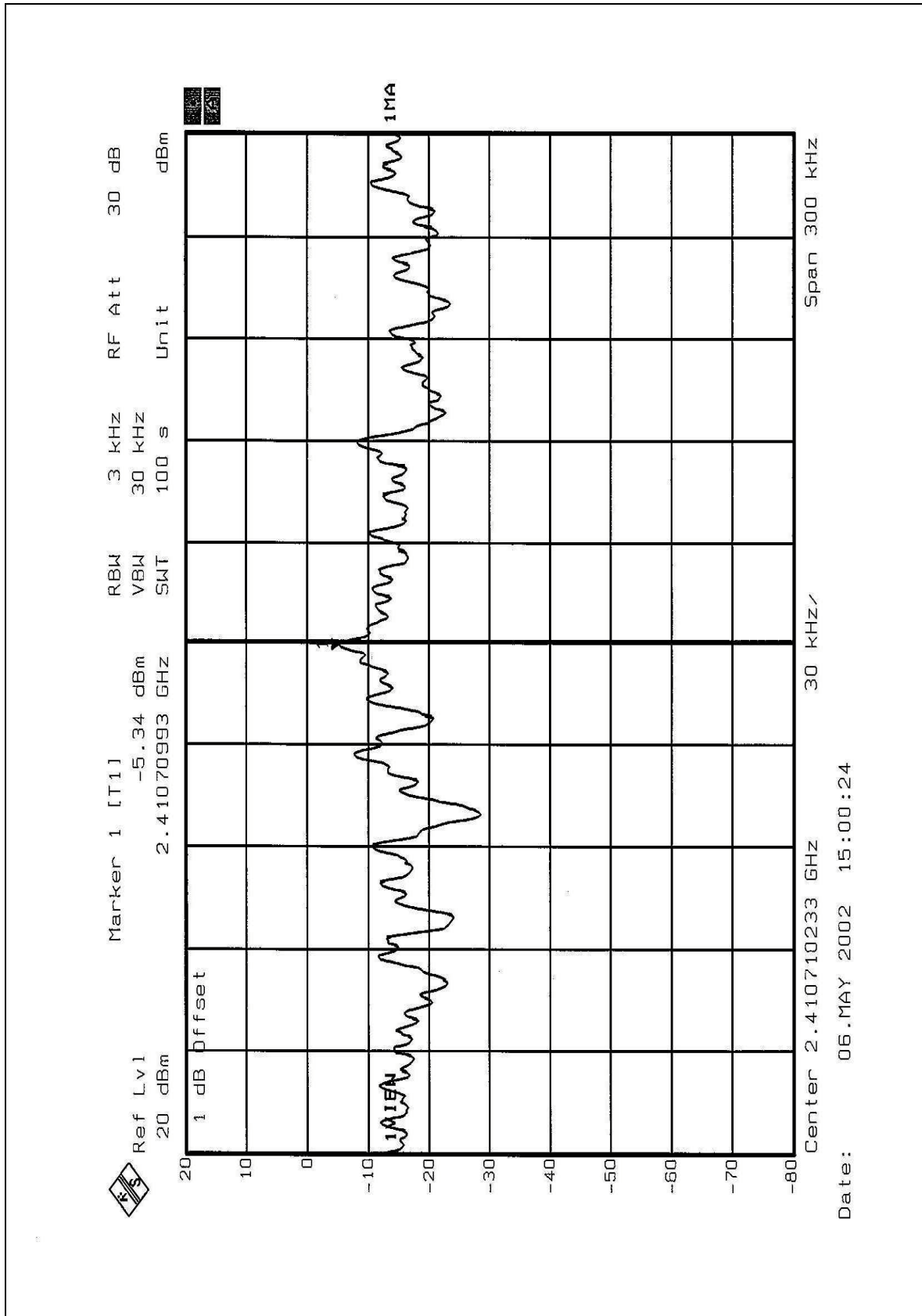
Same as Item 3.4.5

4.5.6 TEST RESULTS

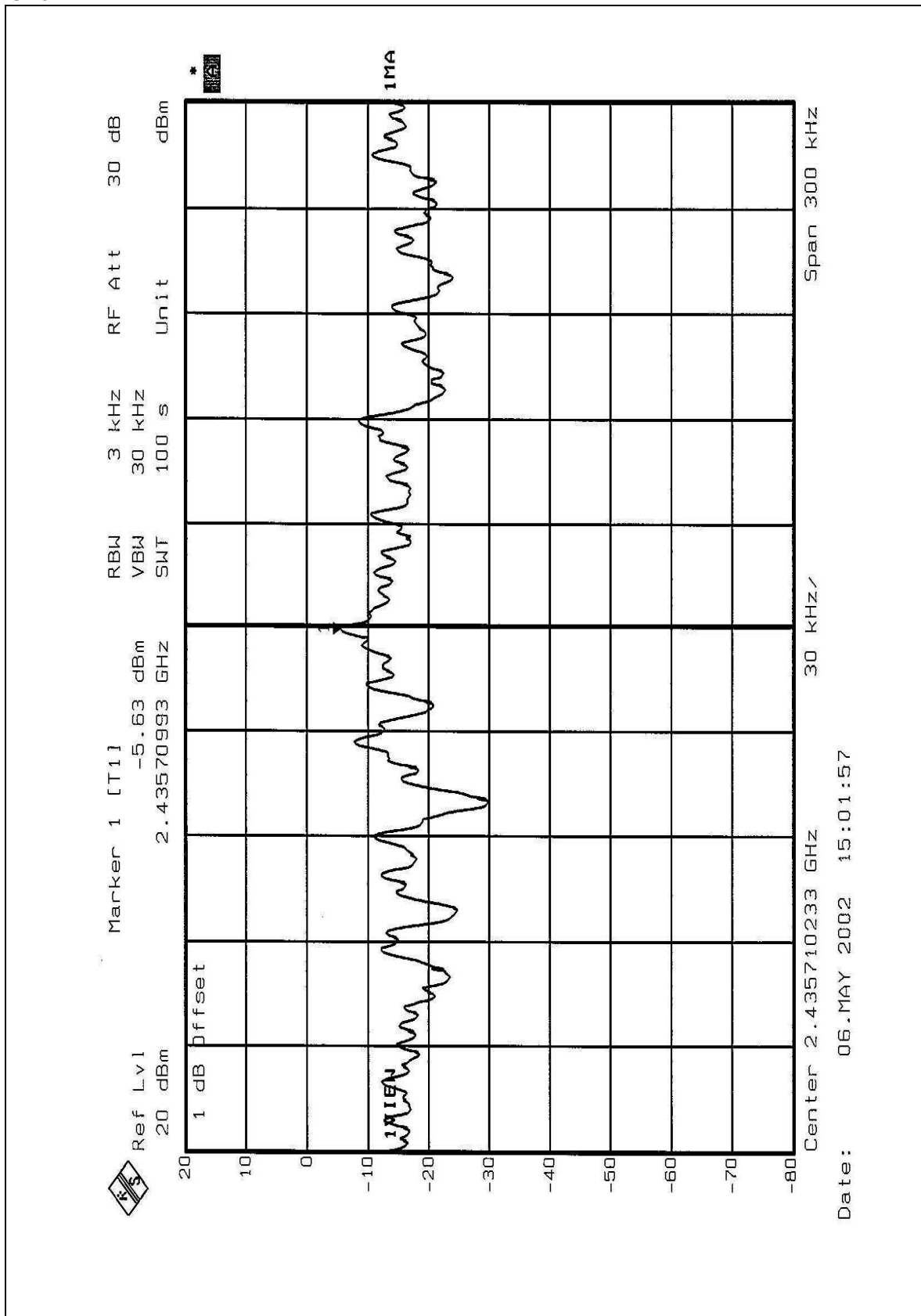
EUT	Intel Wireless Gateway II	MODEL	AP1210
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 55 %RH, 1005 hPa
TESTED BY: Steven Lu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-5.34	8	PASS
6	2437	-5.63	8	PASS
11	2462	-6.09	8	PASS

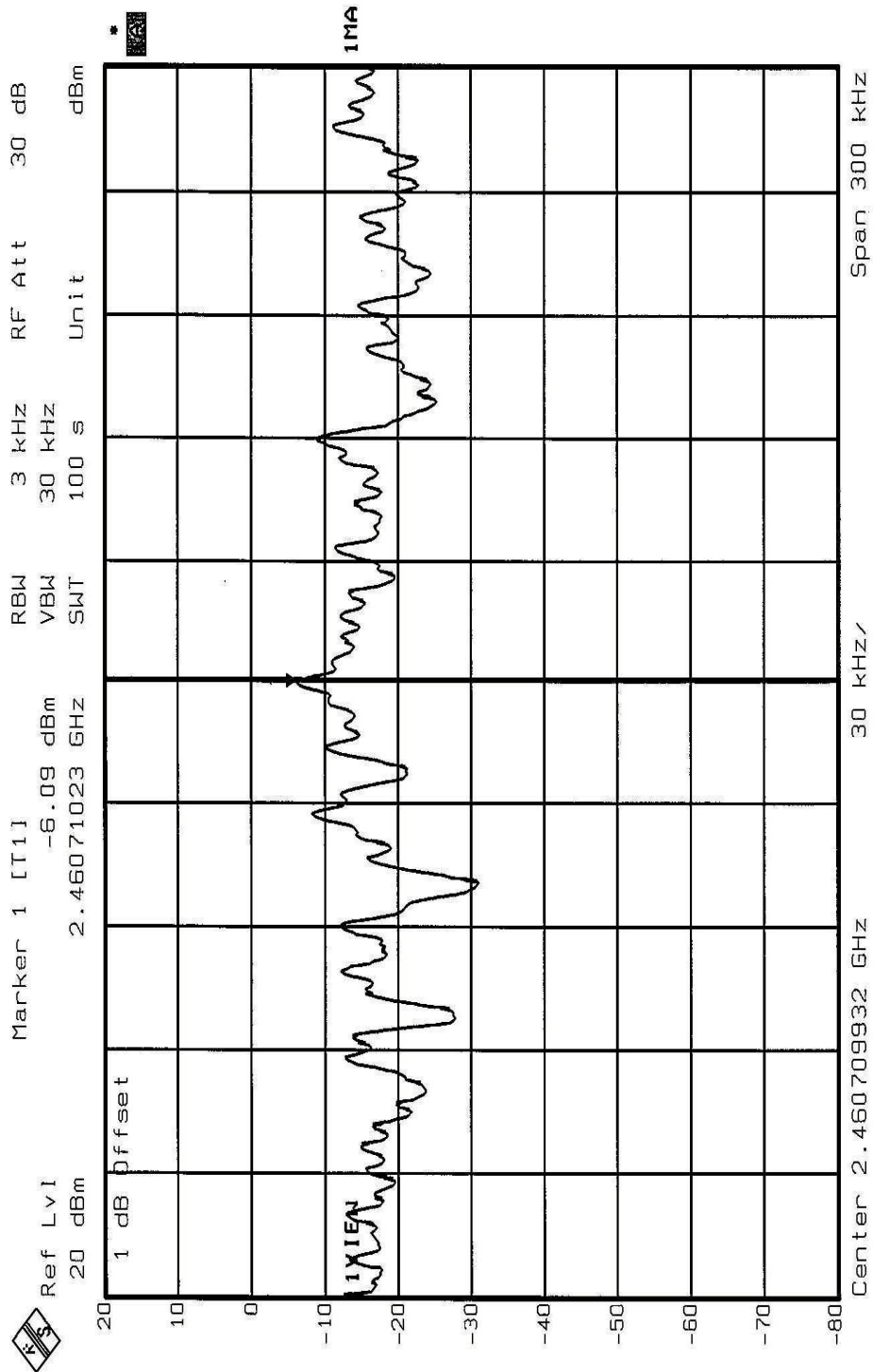
CH1



CH6



CH11



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.



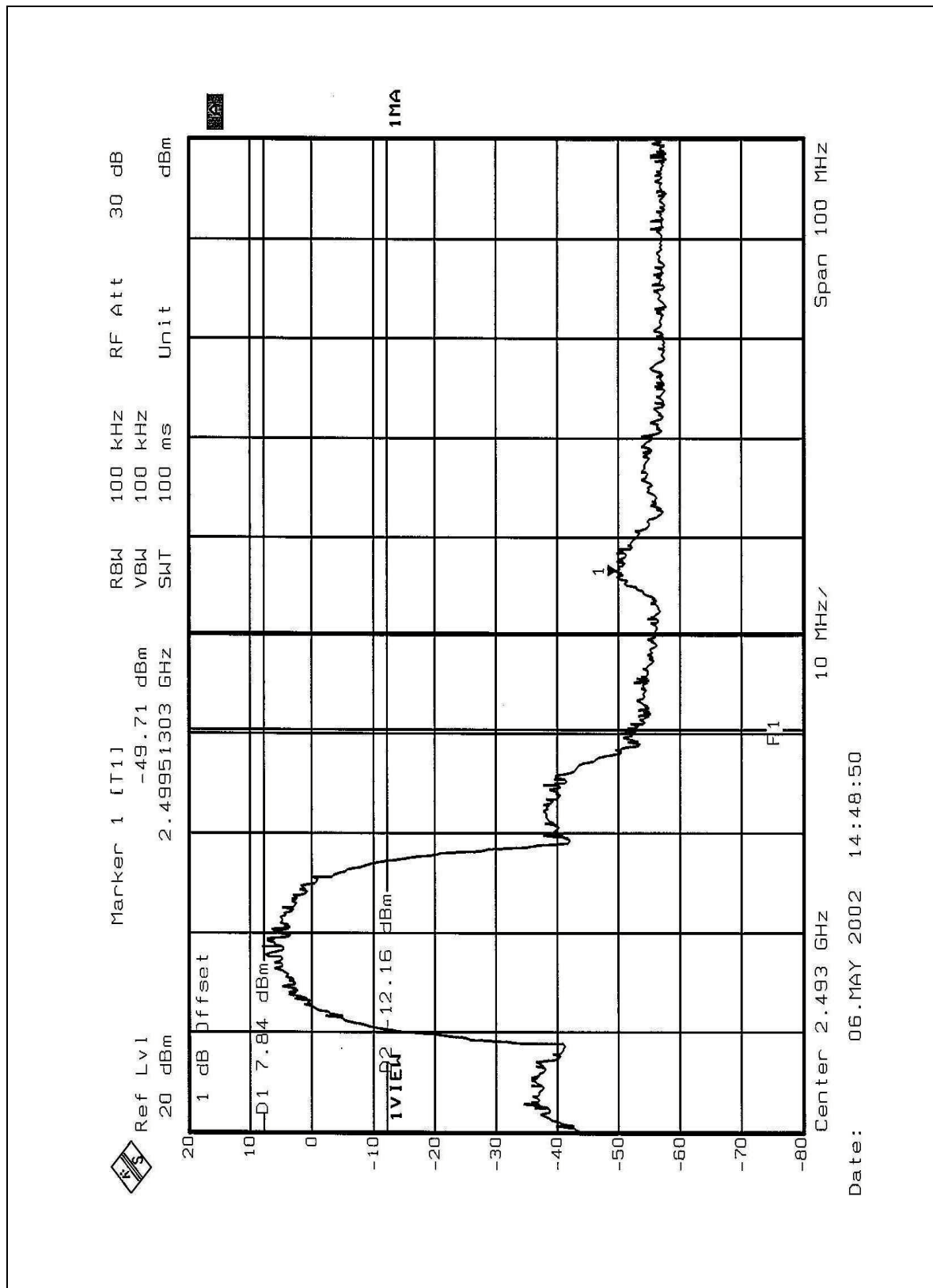
4.6.4 EUT OPERATING CONDITION

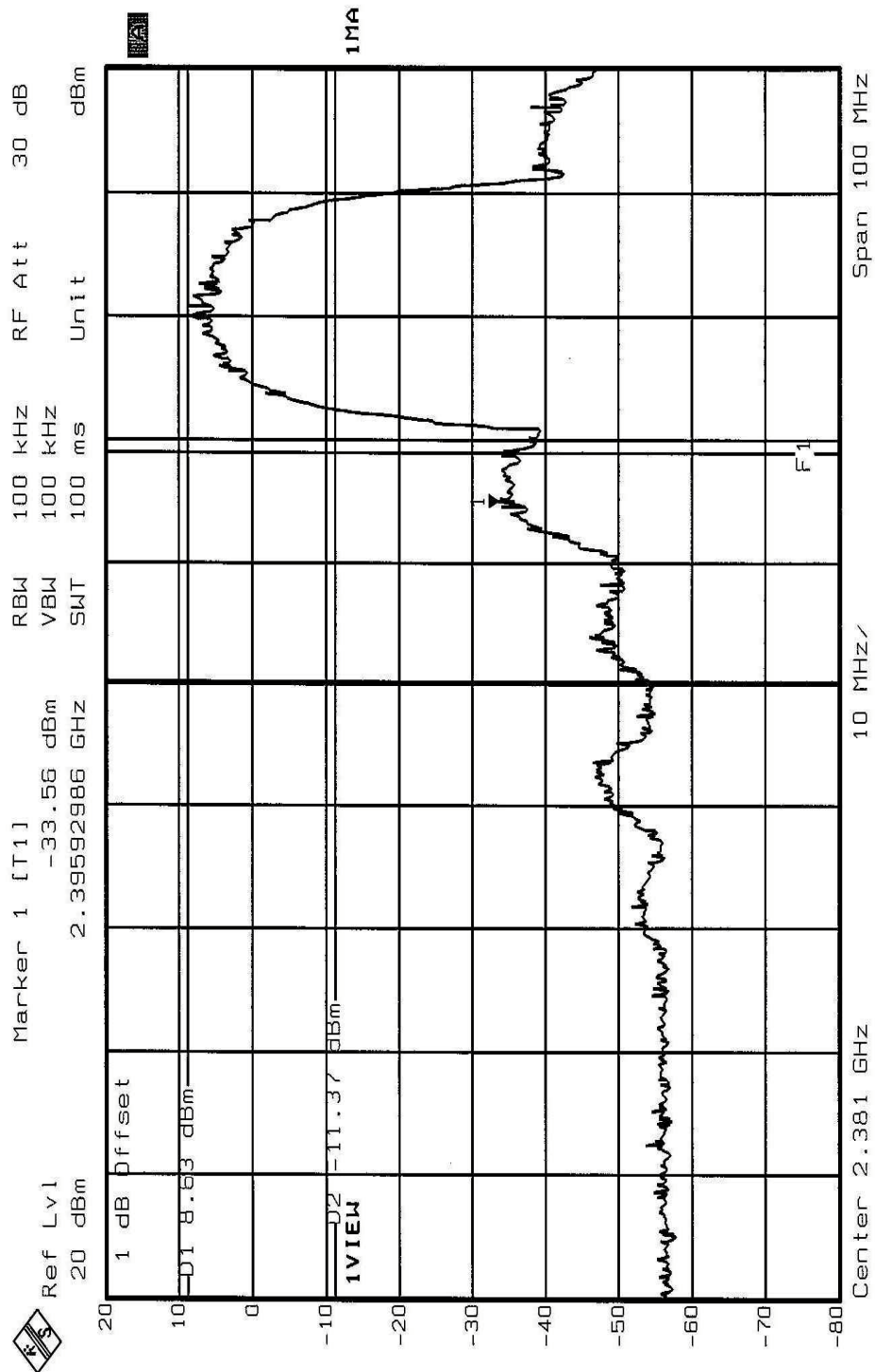
Same as Item 3.4.5

4.6.5 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following 2 pages shows 57.55dB delta between carrier maximum power and local maximum emission in restrict band (2.4995GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.6 (Page 26) is 96.3dBuV/m, so the maximum field strength in restrict band is $96.3 - 57.55 = 38.75$ dBuV/m which is under 54 dBuV/m limit.





Date: 06.MAY 2002 14:58:04



4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

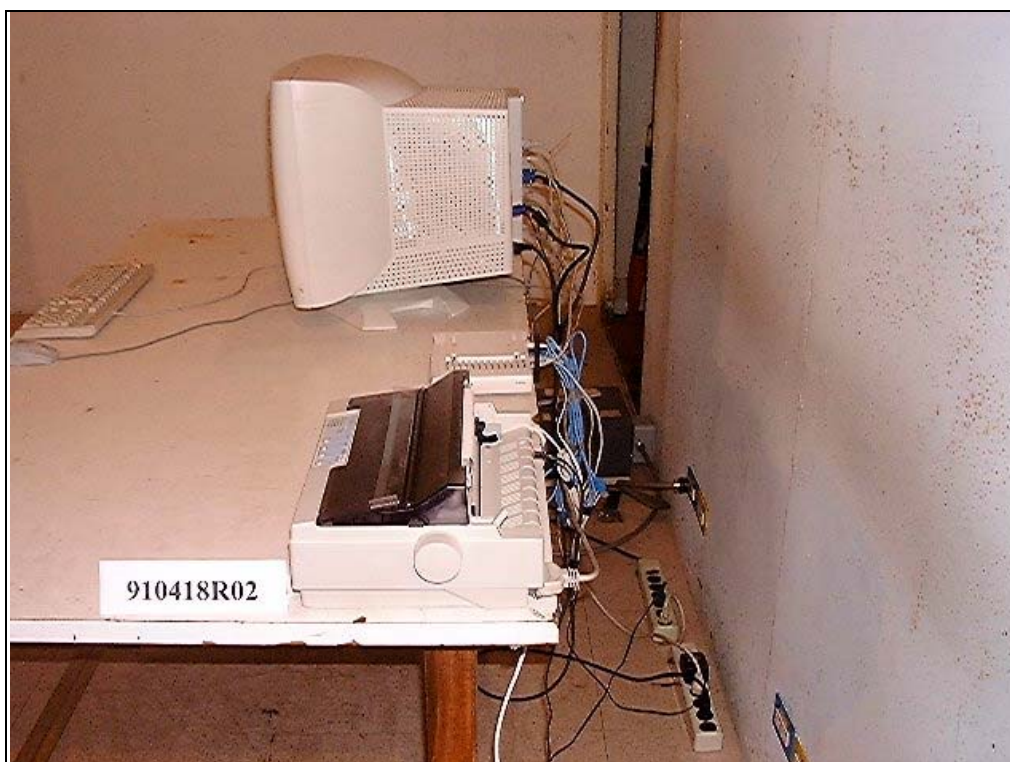
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

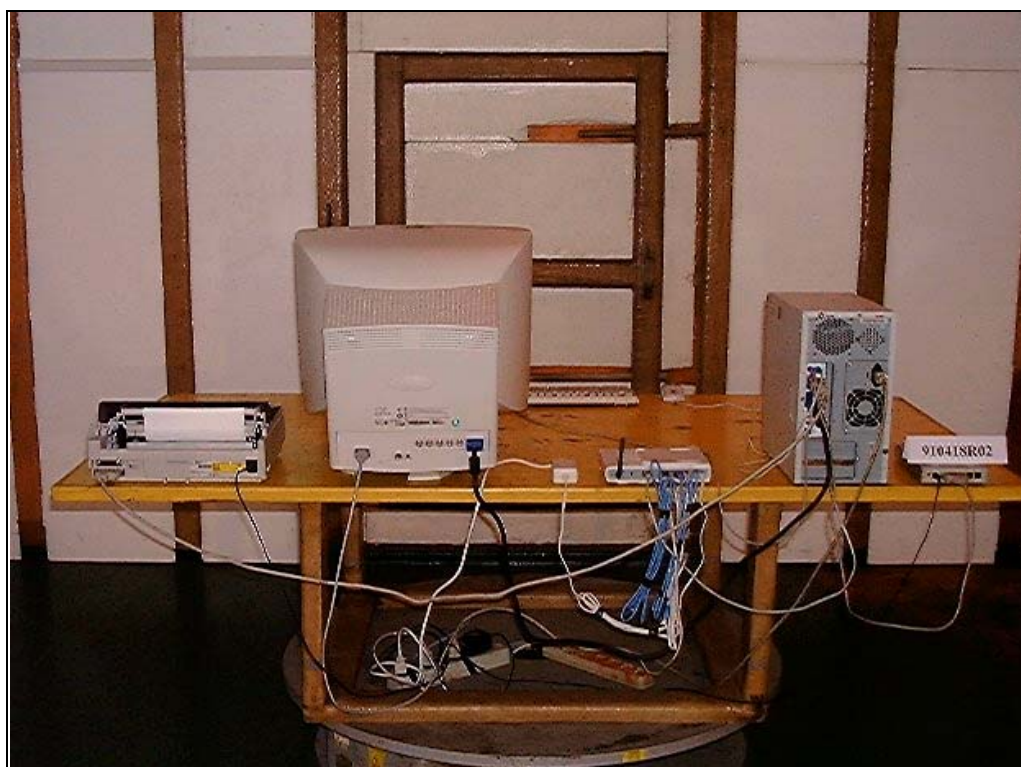
The antenna used in this product is Dipole Antenna. There is no antenna connector. And the maximum Gain of this antenna is only 1dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab:

Tel: 886-2-26093195

Fax: 886-2-26093184

Lin Kou RF&Telecom Lab

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.