FCC TEST REPORT

REPORT NO.: RF901019R01B
MODEL NO.: AirXpress AP11B
RECEIVED: Dec. 11, 2002
TESTED: Dec. 21. 2001 ~ Jan. 15, 2002

APPLICANT: ZIDA Technologies Ltd.

ADDRESS: 8F, Block A, Goodview Industrial Building, 11 Kin Fat Street, Tuen Mun, N.T.H.K.

ISSUED BY: Advance Data Technology Corporation

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

0528
ILAC MRA

Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT :	VCTnet AirXpress AP11B Wireless Access Point
BRAND NAME :	VCTnet
MODEL NO. :	AirXpress AP11B
APPLICANT :	ZIDA Technologies Ltd.
MANUFACTURER :	Shenzhen Huaji Yuehai Technology Company Limited
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Dec. 21, 2001 to Jan. 15, 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.

CHECKED BY: Rennie Wang , **DATE:** December 17, 2002

Rennie Wang

APPROVED BY: for , **DATE:** December 17, 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 –5.21dBuV at 0.623MHz
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 –3.00dBuV at 4176.00MHz
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	VCTnet AirXpress AP11B Wireless Access Point
MODEL NO.	AirXpress AP11B
POWER SUPPLY	5VDC from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	13.27dBm
ANTENNA TYPE	Dipole antenna
I/O PORTS	RJ45 port
ASSOCIATED DEVICES	NA

NOTE:

1. This report is issued as a supplementary report to the original report with no. RF901019R01. And the model in this report is identical to the original application model except for their model number, product name, brand name, and outer appearance.
2. The EUT was operated with an AC/DC power adapter as follows:

Brand Name :	KENTEX
Model No.:	WA15-050
Input power :	100-120V ~1.0A 47-63Hz
Output power :	5V, 2.5A

3. For more detailed features description, please refer to the manufacturer's specifications or 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 VCTnet AirXpress AP11B Wireless Access Point. 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

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	NOTEBOOK PC	DELL	PPX	99125	FCC DoC APPROVED
2	LAN CARD	D-Link	DU-E100	UR15001767	FCC DoC APPROVED

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	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 OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/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	ESHS30	828109/007	July 03, 2003
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	July 02. 2003
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Nov. 29, 2003
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 29, 2003
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	July 02, 2003
Software	Cond-V2M1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	July 5, 2003
HP Terminator (For EMCO LISN)	11593A	E1-01-298	Feb. 20, 2003
HP Terminator (For EMCO LISN)	11593A	E1-01-299	Feb. 20, 2003

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. "*": These equipment are used for conducted telecom port test only (if tested).
3. The test was performed in ADT Shielded Room No. 2.
4. The VCCI Site Registration No. is C-240.

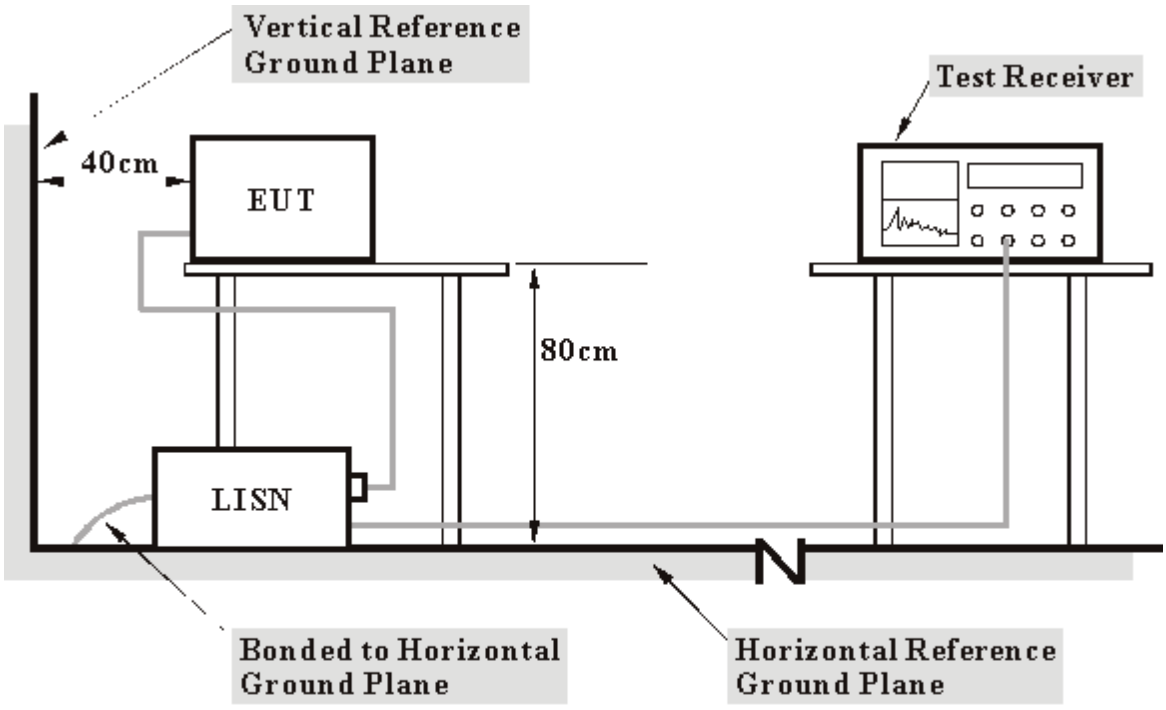
4.1.3 TEST PROCEDURES

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. 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

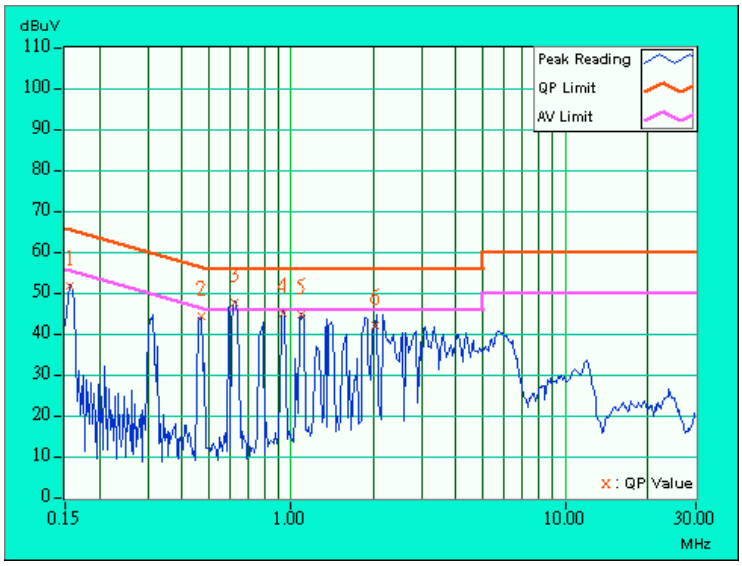
a. Placed the EUT on the testing table.
b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ 45 cable.
d. The communication partner sent data to EUT by command "PIN".

4.1.6 TEST RESULTS

EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 1	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.156	0.10	51.63	-	51.73	-	65.67	55.67	-13.94	-
2	0.470	0.10	44.34	-	44.44	-	56.51	46.51	-12.07	-
3	0.626	0.10	47.68	40.32	47.78	40.42	56.00	46.00	-8.22	-5.58
4	0.939	0.10	45.22	-	45.32	-	56.00	46.00	-10.68	-
5	1.095	0.10	44.79	-	44.89	-	56.00	46.00	-11.11	-
6	2.038	0.10	41.94	-	42.04	-	56.00	46.00	-13.96	-

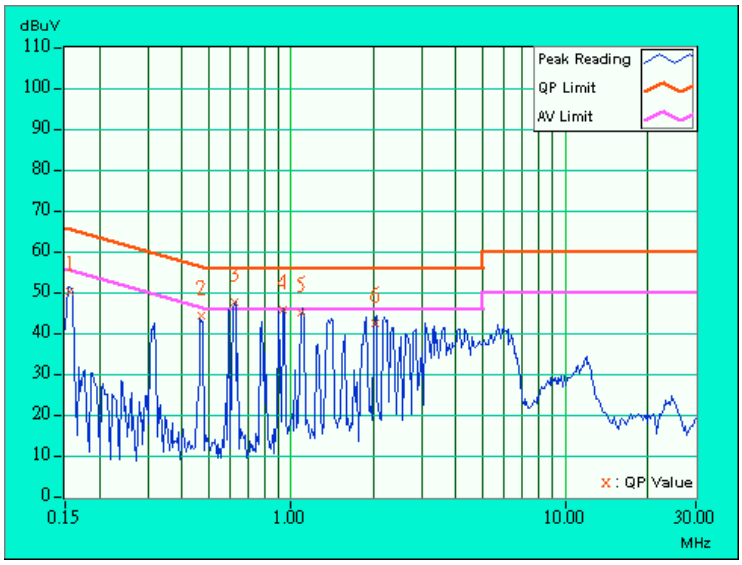
Remarks:
1. "*": Undetectable
2. QP. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.



EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 1	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.156	0.10	50.42	-	50.52	-	65.67	55.67	-15.15	-
2	0.470	0.10	44.22	-	44.32	-	56.51	46.51	-12.19	-
3	0.626	0.10	47.66	40.49	47.76	40.59	56.00	46.00	-8.24	-5.41
4	0.938	0.10	45.70	-	45.80	-	56.00	46.00	-10.20	-
5	1.094	0.10	45.16	-	45.26	-	56.00	46.00	-10.74	-
6	2.034	0.10	42.40	-	42.50	-	56.00	46.00	-13.50	-

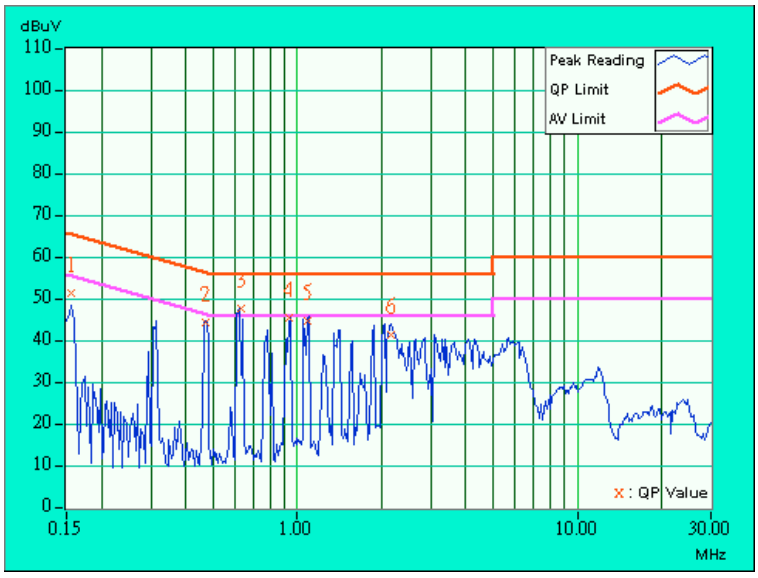
Remarks:
1. "*": Undetectable
2. QP. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.



EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.156	0.10	51.52	-	51.62	-	65.67	55.67	-14.05	-
2	0.470	0.10	44.34	-	44.44	-	56.52	46.52	-12.08	-
3	0.631	0.10	47.60	36.98	47.70	37.08	56.00	46.00	-8.30	-8.92
4	0.938	0.10	45.26	-	45.36	-	56.00	46.00	-10.64	-
5	1.095	0.10	44.75	-	44.85	-	56.00	46.00	-11.15	-
6	2.166	0.12	41.39	-	41.51	-	56.00	46.00	-14.49	-

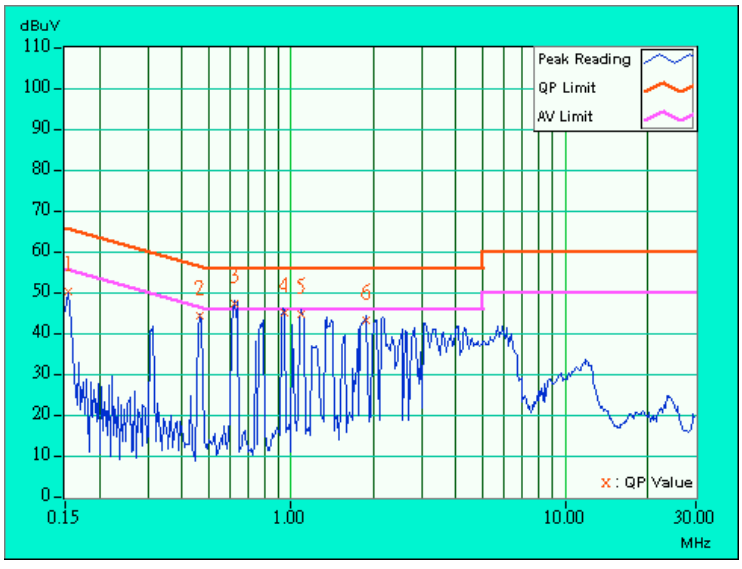
Remarks:
1. "*": Undetectable
2. QP. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.



EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.153	0.10	50.12	-	50.22	-	65.82	55.82	-15.60	-
2	0.468	0.10	44.20	-	44.30	-	56.56	46.56	-12.26	-
3	0.623	0.10	47.45	40.69	47.55	40.79	56.00	46.00	-8.45	-5.21
4	0.941	0.10	45.24	-	45.34	-	56.00	46.00	-10.66	-
5	1.089	0.10	44.87	-	44.97	-	56.00	46.00	-11.03	-
6	1.881	0.10	43.34	-	43.44	-	56.00	46.00	-12.56	-

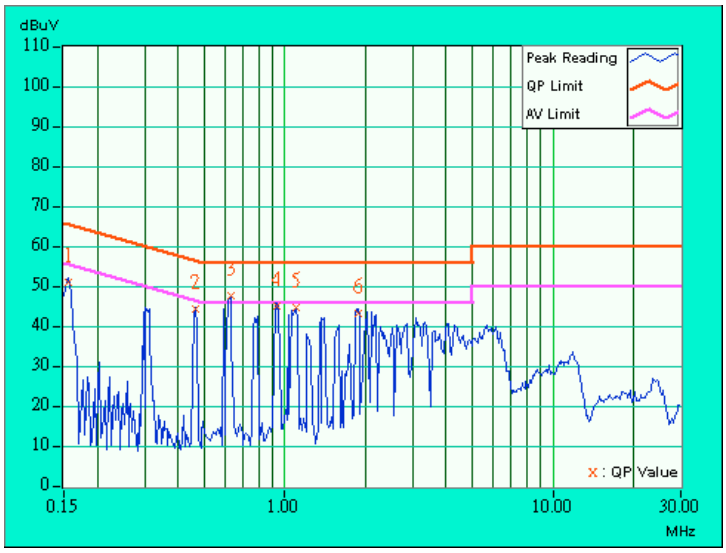
Remarks:
1. "*": Undetectable
2. QP. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.



EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.156	0.10	51.12	-	51.22	-	65.69	55.69	-14.47	-
2	0.465	0.10	44.42	-	44.52	-	56.60	46.60	-12.08	-
3	0.627	0.10	47.68	39.25	47.78	39.35	56.00	46.00	-8.22	-6.65
4	0.937	0.10	45.11	-	45.21	-	56.00	46.00	-10.79	-
5	1.098	0.10	44.77	-	44.87	-	56.00	46.00	-11.13	-
6	1.875	0.10	43.10	-	43.20	-	56.00	46.00	-12.80	-

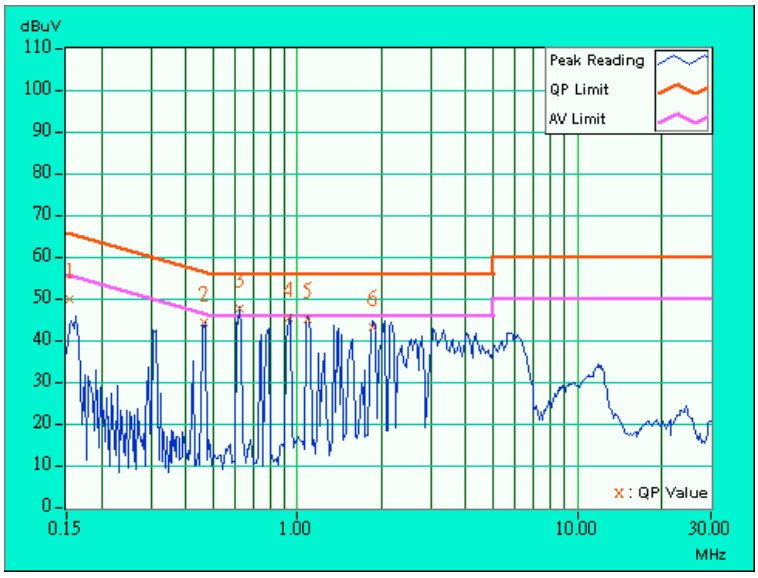
Remarks:
1. "*": Undetectable
2. QP. and AV. are abbreviations of quasi-peak and average individually.
3. "-": NA
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value
6. Emission Level = Correction Factor + Reading Value.



EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 55%RH, 1005 hPa	**TESTED BY**: Cody Chang	

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	0.154	0.10	49.99	-	50.09	-	65.77	55.77	-15.68	-
2	0.466	0.10	44.28	-	44.38	-	56.59	46.59	-12.21	-
3	0.626	0.10	47.64	39.30	47.74	39.40	56.00	46.00	-8.26	-6.60
4	0.936	0.10	45.52	-	45.62	-	56.00	46.00	-10.38	-
5	1.089	0.10	44.96	-	45.06	-	56.00	46.00	-10.94	-
6	1.860	0.10	43.24	-	43.34	-	56.00	46.00	-12.66	-

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

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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	Apr. 29, 2003
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 07, 2003
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2003
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 02, 2003
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jul. 03, 2003
* EMCO Horn Antenna	3115	9312-4192	Apr. 09, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Jan. 25, 2003
* TIMES RF cable	LMR-600	CABLE-ST5-01	Jul. 12, 2003
Open Field Test Site	Site 5	ADT-R05	Jul. 19, 2003
VCCI Site Registration No.	Site 5	R-1039	NA
Site Registration No.	FCC: 90422 Canada IC: IC 3789 VCCI : R-1039		

NOTE: 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

2. "*" = These equipment are used for the final measurement.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The test was performed in ADT Open Site No. 5.

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.

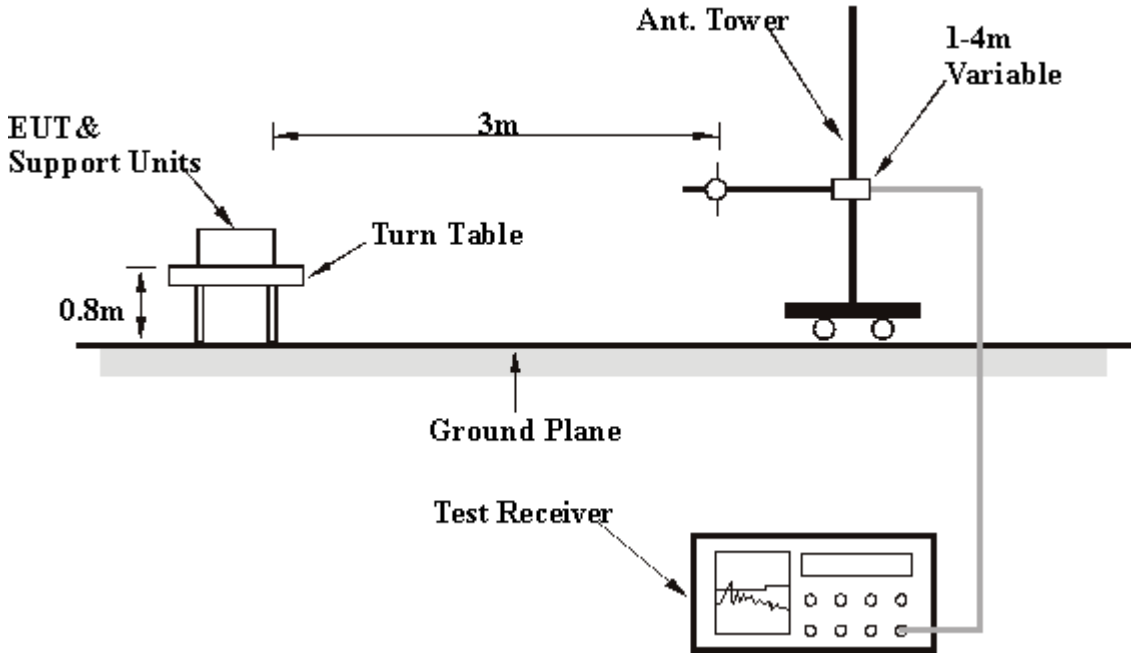
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	18deg. C, 75%RH, 1005 hPa	**TESTED BY**: James Lee	

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	200.00	27.9 QP	43.50	-15.60	1.00H	291	17.50	8.98	1.42	0.00	-10.40
2	220.00	30.1 QP	46.00	-15.90	2.52H	187	18.50	10.12	1.51	0.00	-11.63
3	250.00	29.2 QP	46.00	-16.80	1.00H	236	15.50	12.02	1.66	0.00	-13.69
4	300.00	33.6 QP	46.00	-12.40	1.14H	37	18.50	13.18	1.88	0.00	-15.07
5	308.00	30.8 QP	46.00	-15.20	1.20H	270	15.50	13.38	1.91	0.00	-15.29
6	325.00	34.7 QP	46.00	-11.30	1.08H	259	19.00	13.72	1.96	0.00	-15.68
7	350.00	33.1 QP	46.00	-12.90	1.10H	235	16.80	14.21	2.04	0.00	-16.25
8	352.01	33.7 QP	46.00	-12.30	1.03H	174	17.35	14.31	2.05	0.00	-16.36
9	396.00	33.4 QP	46.00	-12.60	2.61H	240	15.20	15.96	2.22	0.00	-18.18
10	400.00	34.2 QP	46.00	-11.80	1.04H	264	15.90	16.11	2.24	0.00	-18.35
11	500.00	37.3 QP	46.00	-8.70	2.01H	89	17.50	17.26	2.50	0.00	-19.76
12	528.00	34.8 QP	46.00	-11.20	1.00H	102	14.60	17.62	2.60	0.00	-20.22
13	700.00	36.0 QP	46.00	-10.00	1.47H	249	13.50	19.31	3.15	0.00	-22.46
14	748.00	39.2 QP	46.00	-6.80	1.35H	262	15.85	20.14	3.26	0.00	-23.41
15	750.00	35.9 QP	46.00	-10.10	1.56H	338	12.50	20.18	3.26	0.00	-23.44
16	792.00	36.2 QP	46.00	-9.80	1.08H	7	12.30	20.60	3.31	0.00	-23.91.
17	836.00	35.5 QP	46.00	-10.50	1.48H	155	11.50	20.54	3.45	0.00	-23.99
18	880.00	34.7 QP	46.00	-11.30	1.19H	70	10.50	20.68	3.55	0.00	-24.24
19	924.00	33.2 QP	46.00	-12.80	1.00H	303	8.50	21.00	3.68	0.00	-24.70

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	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	18deg. C, 75%RH, 1005 hPa	**TESTED BY**: James Lee	

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	132.00	25.8 QP	43.50	-17.70	1.00V	197	13.50	11.16	1.13	0.00	-12.29
2	150.00	28.0 QP	43.50	-15.50	1.25V	353	16.50	10.30	1.20	0.00	-11.51
3	176.00	28.9 QP	43.50	-14.60	1.00V	351	18.50	9.08	1.33	0.00	-10.41
4	200.00	29.9 QP	43.50	-13.60	1.00V	8	19.55	8.98	1.42	0.00	-10.40
5	220.00	31.1 QP	46.00	-14.90	1.00V	220	19.50	10.12	1.51	0.00	-11.63
6	275.00	32.8 QP	46.00	-13.20	1.02V	168	18.50	12.59	1.74	0.00	-14.33
7	300.00	31.6 QP	46.00	-14.40	1.01V	100	16.50	13.18	1.88	0.00	-15.06
8	308.00	30.6 QP	46.00	-15.40	1.25V	2	15.30	13.38	1.91	0.00	-15.29
9	352.00	33.4 QP	46.00	-12.60	1.00V	195	17.00	14.31	2.05	0.00	-16.36
10	500.00	37.3 QP	46.00	-8.70	1.00V	278	17.50	17.26	2.50	0.00	-19.77
11	528.00	35.7 QP	46.00	-10.30	1.88V	160	15.50	17.62	2.60	0.00	-20.22
12	550.00	34.1 QP	46.00	-11.90	1.00V	269	13.50	17.93	2.68	0.00	-20.60
13	572.00	35.5 QP	46.00	-10.50	1.04V	195	14.50	18.25	2.75	0.00	-21.00
14	600.00	33.4 QP	46.00	-12.60	1.00V	121	12.00	18.61	2.83	0.00	-21.44
15	660.00	35.8 QP	46.00	-10.20	1.13V	23	13.50	19.25	3.05	0.00	-22.29
16	700.00	34.5 QP	46.00	-11.50	1.00V	64	12.00	19.31	3.15	0.00	-22.46
17	748.00	34.9 QP	46.00	-11.10	1.00V	342	11.50	20.14	3.26	0.00	-23.40
18	880.00	34.7 QP	46.00	-11.30	1.66V	215	10.50	20.68	3.55	0.00	-24.23
19	924.00	33.2 QP	46.00	-12.80	1.49V	3	8.50	21.00	3.68	0.00	-24.69

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	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 75%RH, 1005 hPa	**TESTED BY**: James Lee	

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	2038.0	48.2 PK	74.00	-25.80	1.00H	166	53.00	25.20	4.86	34.90	4.84
2	*2413.1	103.5 PK	-	-	1.05H	318	71.30	27.11	5.10	0.00	-32.21
3	*2413.1	97.5 AV	-	-	1.05H	318	65.30	27.11	5.10	0.00	-32.21
4	4076.0	49.6 PK	74.00	-24.40	1.57H	310	47.20	30.13	6.78	34.52	-2.39
5	4824.0	49.5 PK	74.00	-24.50	1.23H	50	45.50	31.43	7.23	34.63	-4.03

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	2038.0	47.2 PK	74.00	-26.80	1.10V	42	52.00	25.20	4.86	34.90	4.84
2	*2413.1	106.9 PK	-	-	1.00V	349	74.70	27.11	5.10	0.00	-32.21
3	*2413.1	100.9 AV	-	-	1.00V	349	68.70	27.11	5.10	0.00	-32.21
4	4076.0	50.9 PK	74.00	-23.10	1.30V	347	48.50	30.13	6.78	34.52	-2.39
5	7237.3	51.1 PK	74.00	-22.90	1.30V	356	40.50	36.09	9.24	34.70	-10.64

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	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 75%RH, 1005 hPa	**TESTED BY**: James Lee	

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	2063.0	48.5 PK	74.00	-25.50	1.02H	49	53.00	25.41	4.96	34.90	4.53
2	*2438.2	102.5 PK	-	-	1.00H	239	70.10	27.33	5.08	0.00	-32.40
3	*2438.2	96.5 AV	-	-	1.00H	239	64.10	27.33	5.08	0.00	-32.40
4	4126.0	51.0 PK	74.00	-23.00	1.54H	328	48.50	30.32	6.70	34.56	-2.46
5	4874.0	50.6 PK	74.00	-23.40	1.08H	61	46.50	31.47	7.21	34.63	-4.06

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	2063.0	48.5 PK	74.00	-25.50	1.01V	305	53.00	25.41	4.96	34.90	4.53
2	*2436.9	107.2 PK	-	-	1.00V	13	74.80	27.33	5.08	0.00	-32.41
3	*2436.9	101.2 AV	-	-	1.00V	13	68.80	27.33	5.08	0.00	-32.41
4	4126.0	53.5 PK	74.00	-20.50	1.00V	6	51.00	30.32	6.70	34.56	-2.46
5	4126.0	47.4 AV	54.00	-6.60	1.00V	6	44.90	30.32	6.70	34.56	-2.46
6	7309.1	53.3 PK	74.00	-20.70	1.59V	351	42.60	36.18	9.28	34.72	-10.75
7	7309.1	46.3 AV	54.00	-7.70	1.59V	351	35.60	36.18	9.28	34.72	-10.75

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	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
MODE	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 75%RH, 1005 hPa	**TESTED BY**: James Lee	

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	2088.0	48.2 PK	74.00	-25.80	1.15H	169	52.50	25.62	5.02	34.90	4.26
2	*2463.2	101.0 PK	-	-	1.21H	148	68.60	27.33	5.08	0.00	-32.41
3	*2463.2	95.0 AV	-	-	1.21H	148	62.60	27.33	5.08	0.00	-32.41
4	2483.5	49.2 PK	74.00	-24.80	1.50H	275	51.50	27.54	5.06	34.90	2.31
5	4176.0	50.0 PK	74.00	-24.00	1.67H	178	47.50	30.41	6.68	34.58	-2.51
6	4924.0	50.1 PK	74.00	-23.90	1.56H	272	46.00	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	2088.0	49.2 PK	74.00	-24.80	1.00V	3	53.50	25.62	5.02	34.90	4.26
2	*2463.3	106.7 PK	-	-	1.00V	10	74.30	27.33	5.08	0.00	-32.40
3	*2463.3	100.7 AV	-	-	1.00V	10	68.30	27.33	5.08	0.00	-32.40
4	2483.6	50.5 PK	74.00	-23.50	1.17V	359	52.80	27.54	5.06	34.90	2.31
5	4176.0	51.0 AV	54.00	-3.00	1.03V	294	48.50	30.41	6.68	34.58	-2.51
6	4176.0	54.6 PK	74.00	-19.40	1.03V	294	52.10	30.41	6.68	34.58	-2.51.
7	4924.0	50.6 PK	74.00	-23.40	1.85V	3	46.50	31.51	7.21	34.62	-4.10
8	6264.0	48.5 AV	54.00	-5.50	1.36V	48	41.50	33.48	8.13	34.60	-7.01
9	7384.9	56.4 PK	74.00	-17.60	1.85V	3	45.50	36.35	9.32	34.75	-10.92.
10	7384.9	48.4 AV	54.00	-5.60	1.85V	3	37.50	36.35	9.32	34.75	-10.92

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
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

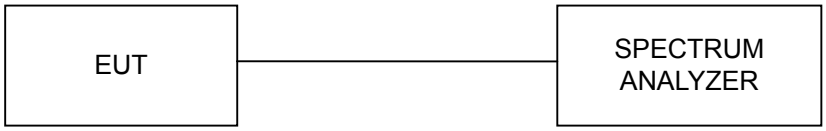
NOTE:

1. 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

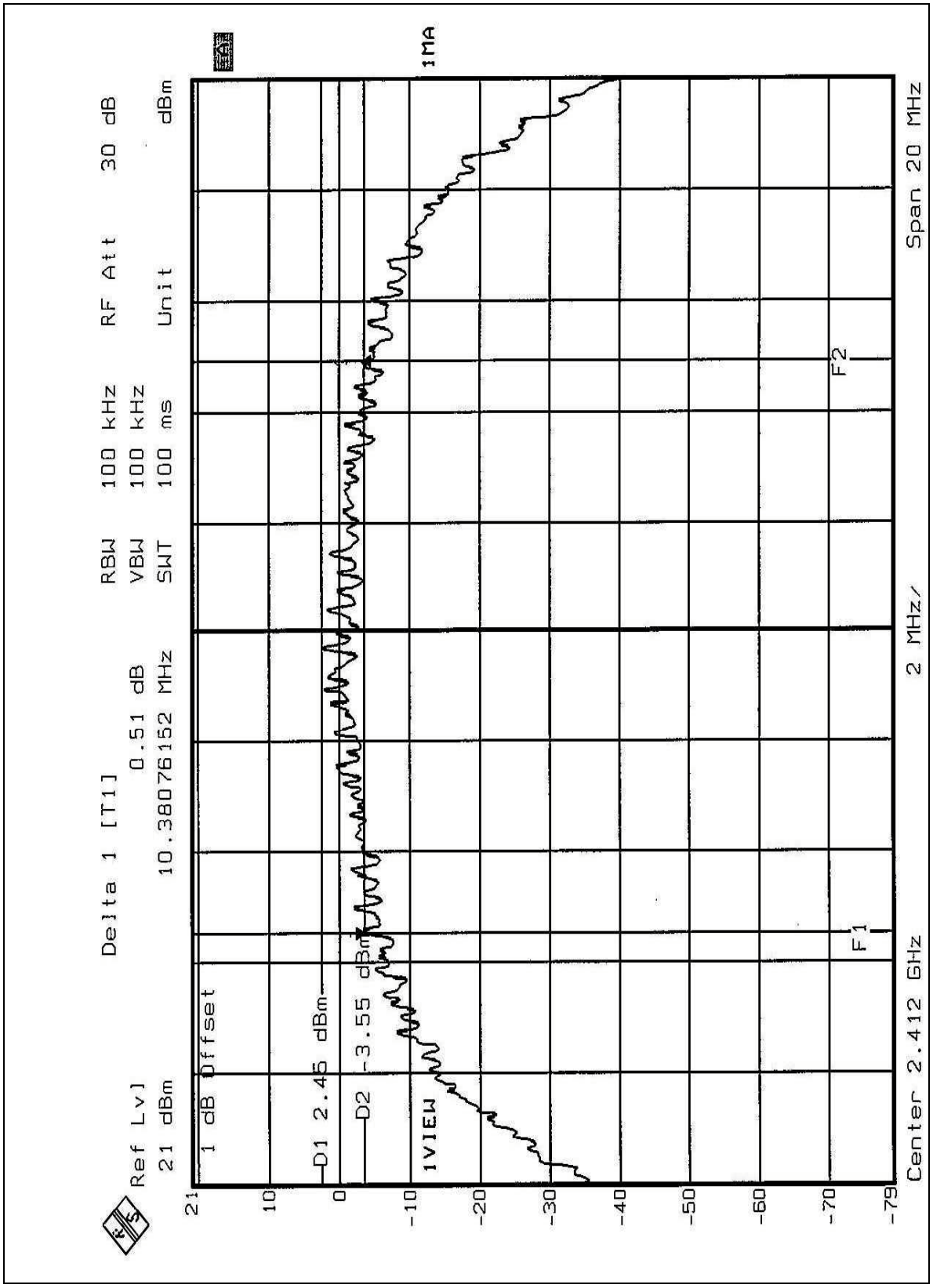
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.6 TEST RESULTS

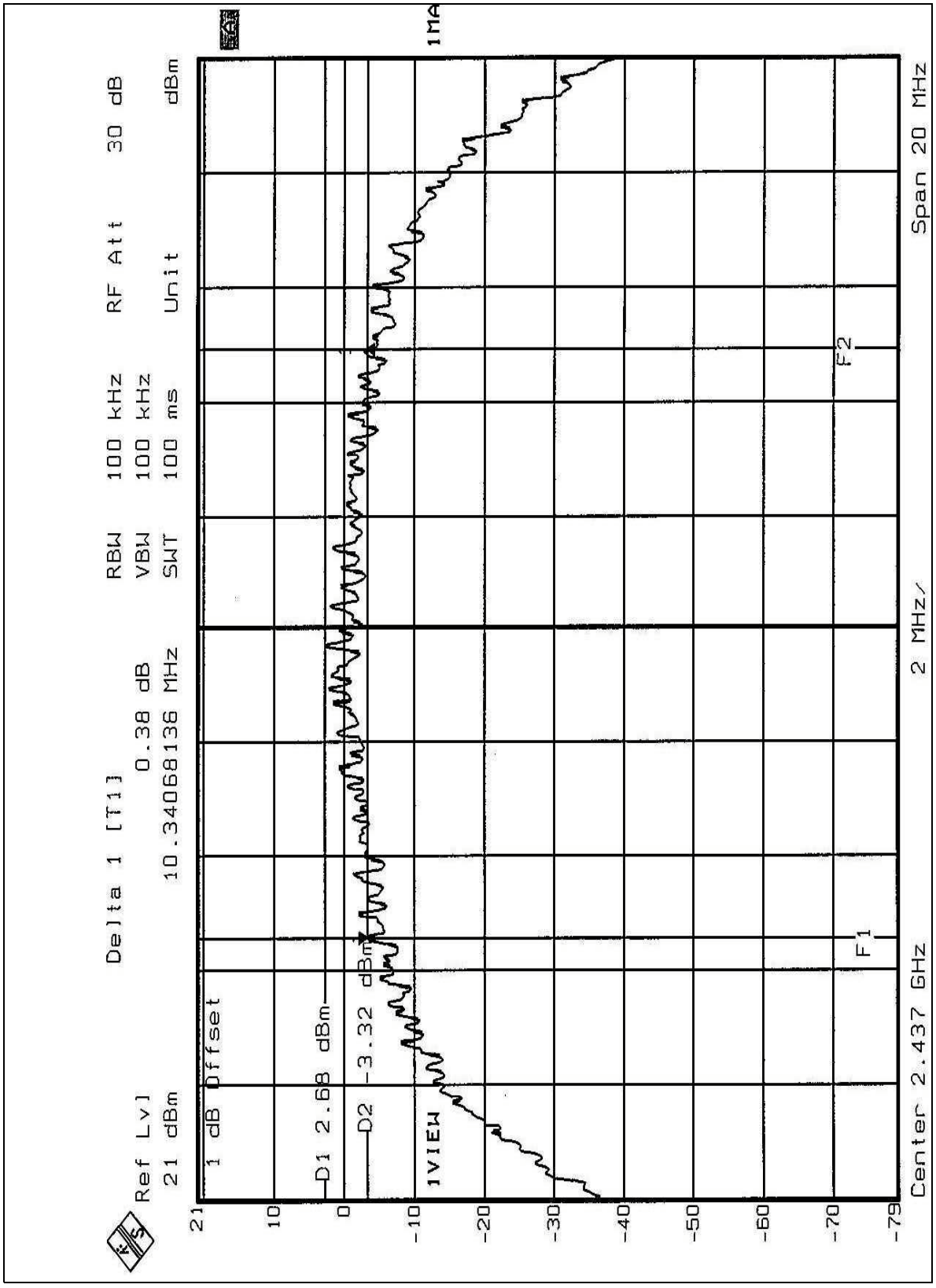
EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	22 deg. C, 55%RH, 1005 hPa
TESTED BY: Bruce Shiau			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.38	0.5	PASS
6	2437	10.34	0.5	PASS
11	2462	10.38	0.5	PASS

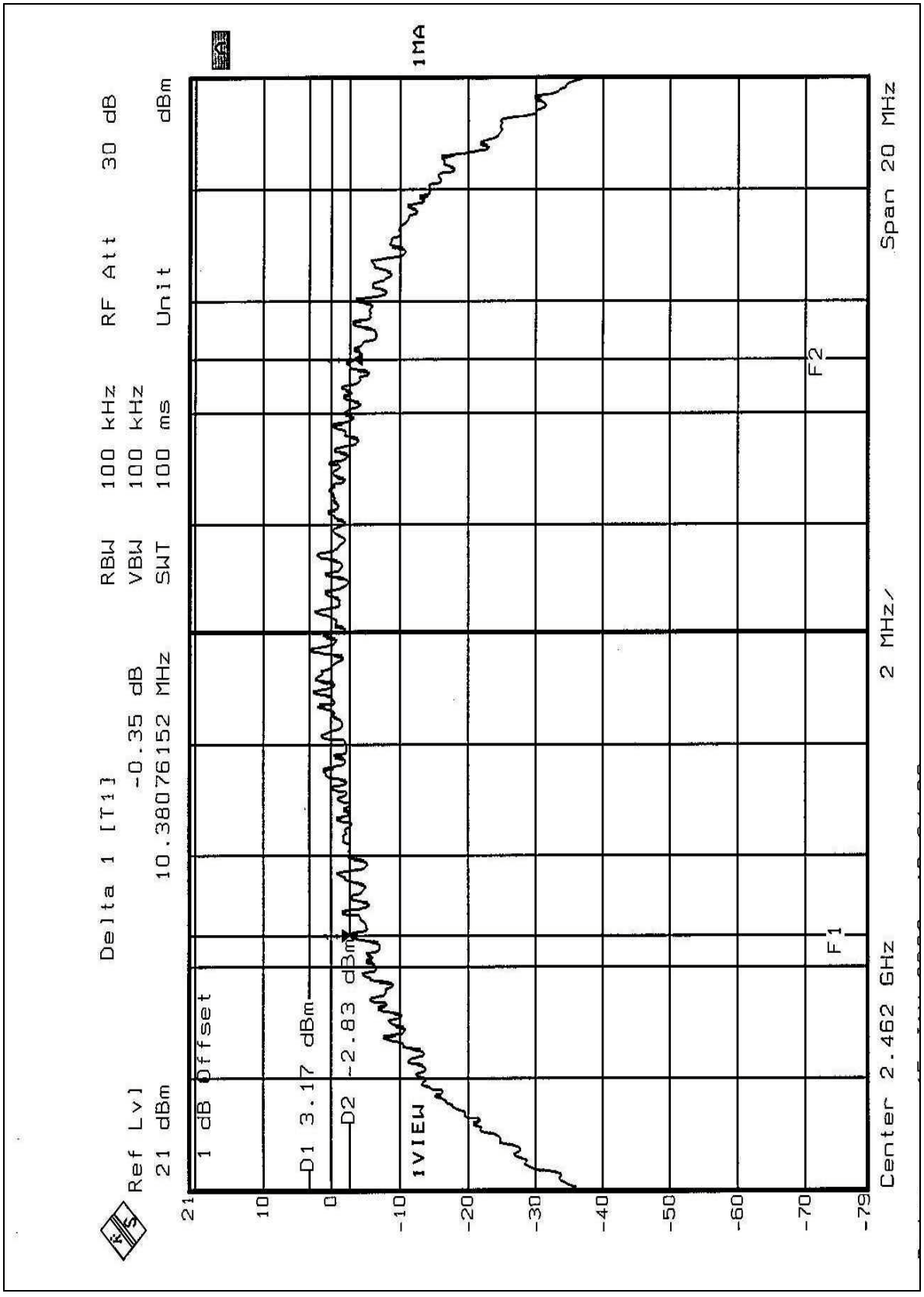
CH1


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
0.51 dB
10.38076152 MHz
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
D1 2.45 dBm
D2 -3.55 dBm
1VIEW
1MA
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

CH6


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
0.38 dB
10.34068136 MHz
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
D1 2.68 dBm
D2 -3.32 dBm
1VIEW
1MA
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

CH11


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
-0.35 dB
10.38076152 MHz
D1 3.17 dBm
D2 -2.83 dBm
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
1VIEW
1MA
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

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
SINGLE CHANNEL POWER METER	NRVS	100026	Feb. 21, 2003
PEAK POWER SENSOR	NRV-Z32	100013	Feb. 21, 2003

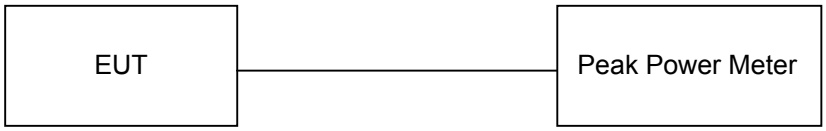
NOTE:

1. 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 4.3.5

4.4.6 TEST RESULTS

EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	22 deg. C, 55%RH, 1005 hPa
TESTED BY: Bruce Shiau			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	12.50	30	PASS
6	2437	12.70	30	PASS
11	2462	13.27	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
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

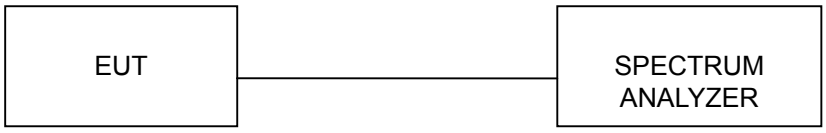
NOTE:

1. 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

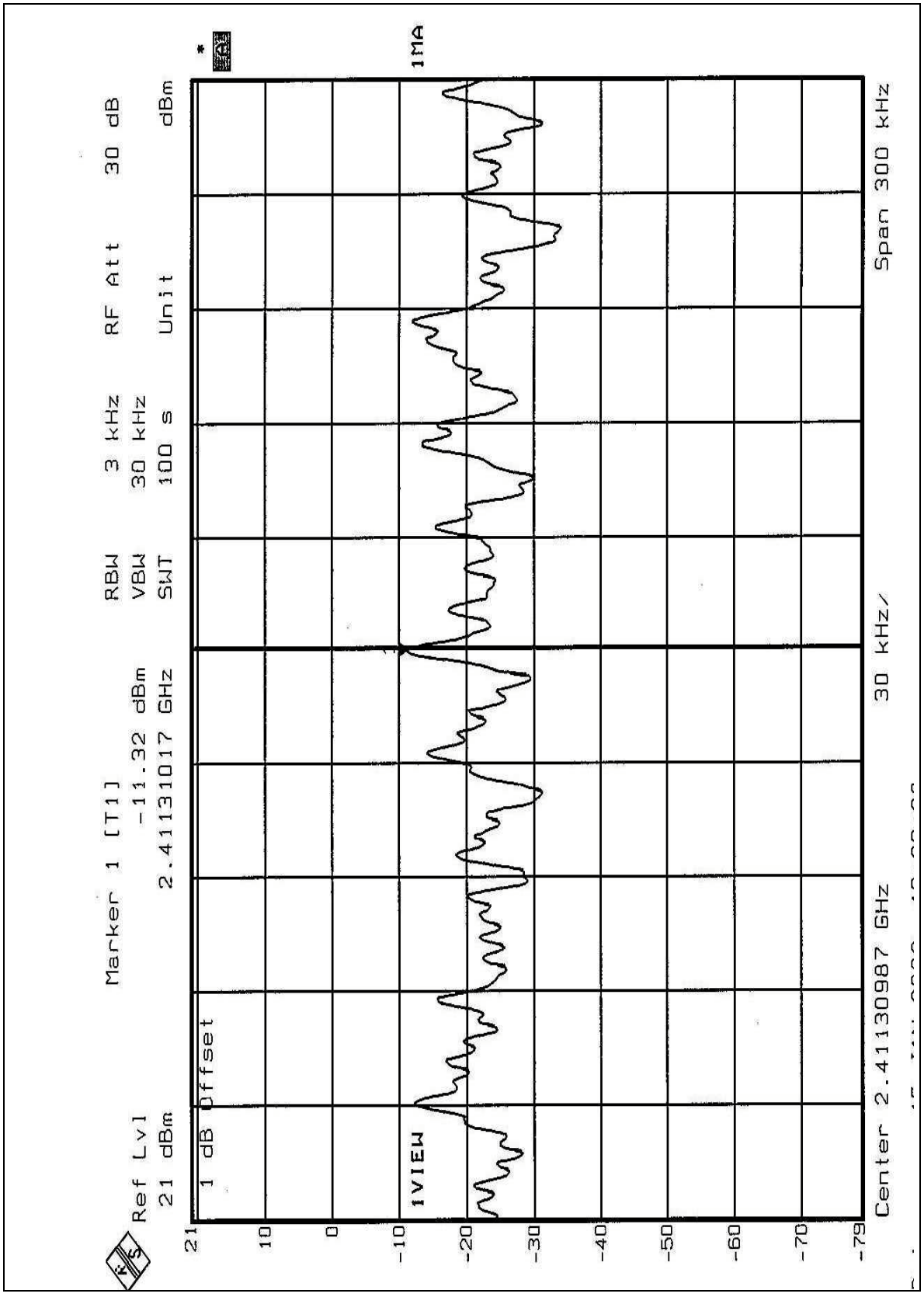
Same as Item 4.3.5

4.5.6 TEST RESULTS

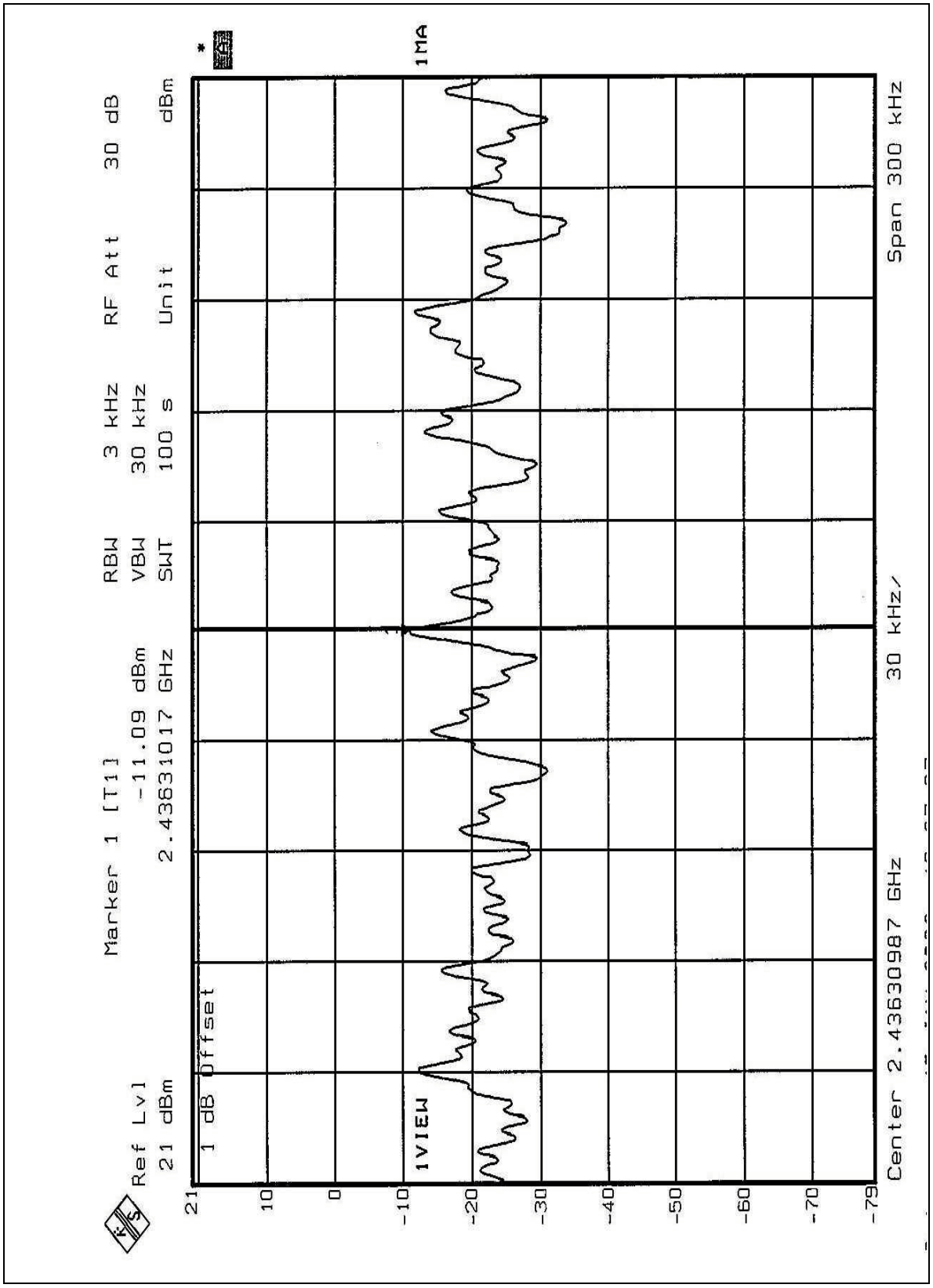
EUT	VCTnet AirXpress AP11B Wireless Access Point	**MODEL**	AirXpress AP11B
INPUT POWER (SYSTEM)	120Vac, 60Hz	**ENVIRONMENTAL CONDITIONS**	22 deg. C, 50%RH, 1005 hPa
TESTED BY: Bruce Shiau			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.32	8	PASS
6	2437	-11.09	8	PASS
11	2462	-10.60	8	PASS

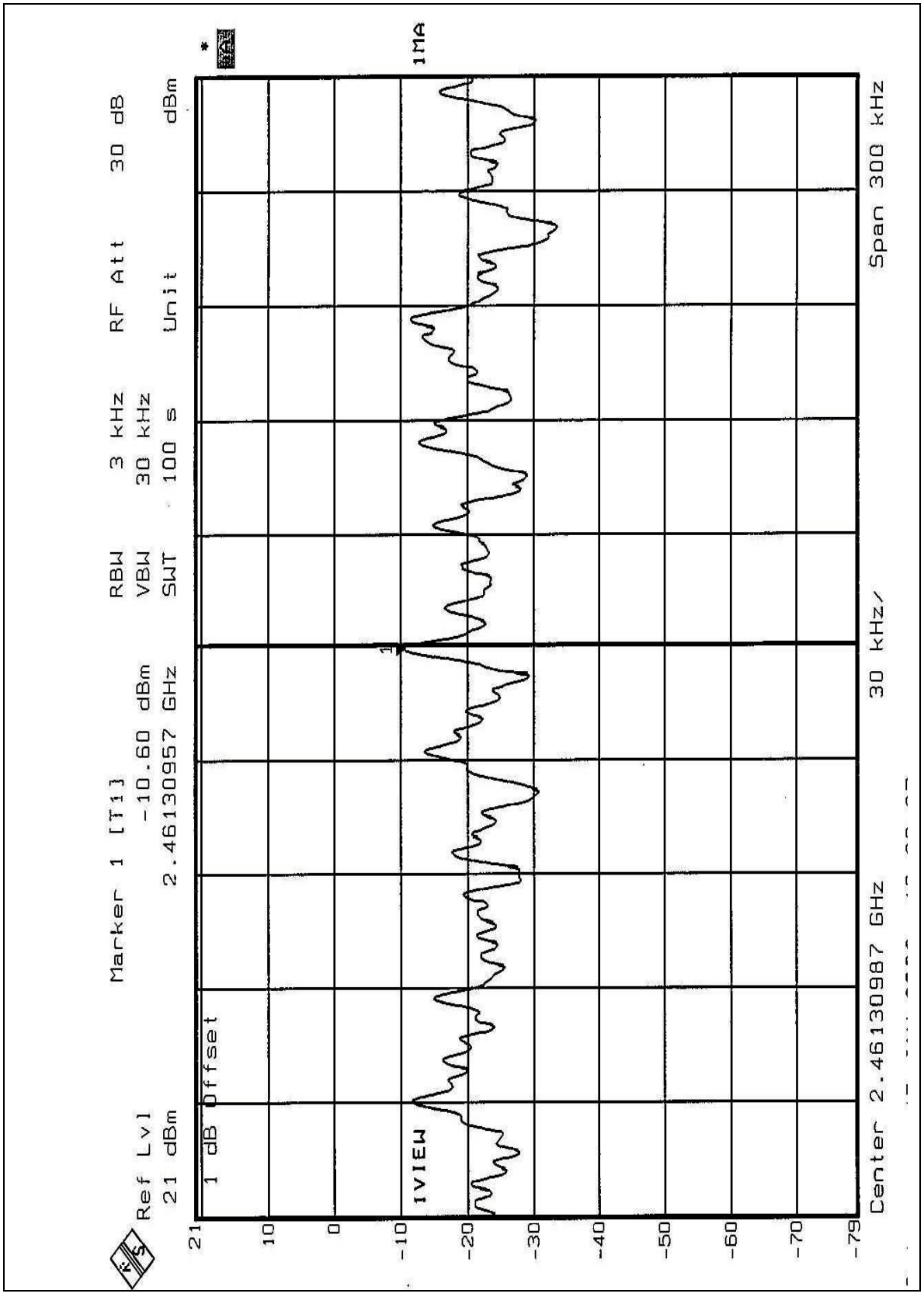
CH1


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-11.32 dBm
2.41131017 GHz
RBW 3 kHz
VBW 30 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
Center 2.41130987 GHz
30 kHz/
Span 300 kHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

CH6


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-11.09 dBm
2.43631017 GHz
RBW 3 kHz
VBW 30 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
1VIEW
1MA
Center 2.43630987 GHz
30 kHz/
Span 300 kHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

CH11


Marker 1 [T1]
-10.60 dBm
2.46130957 GHz
RBW 3 kHz
VBW 30 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
Ref Lvl
21 dBm
1 dB Offset
1MA
1VIEW
Center 2.46130987 GHz
30 kHz/
Span 300 kHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

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
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:
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

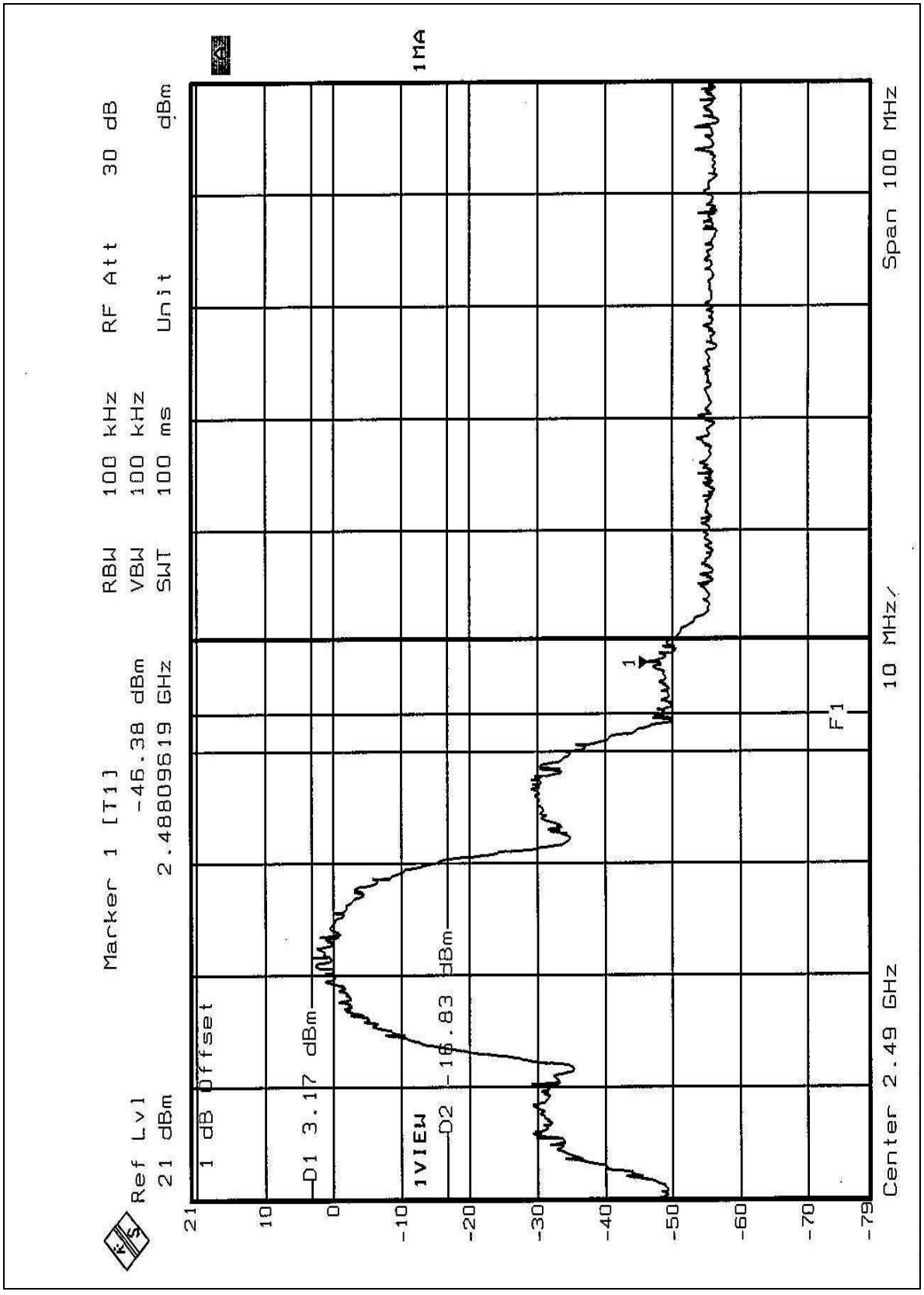
Same as Item 4.3.5

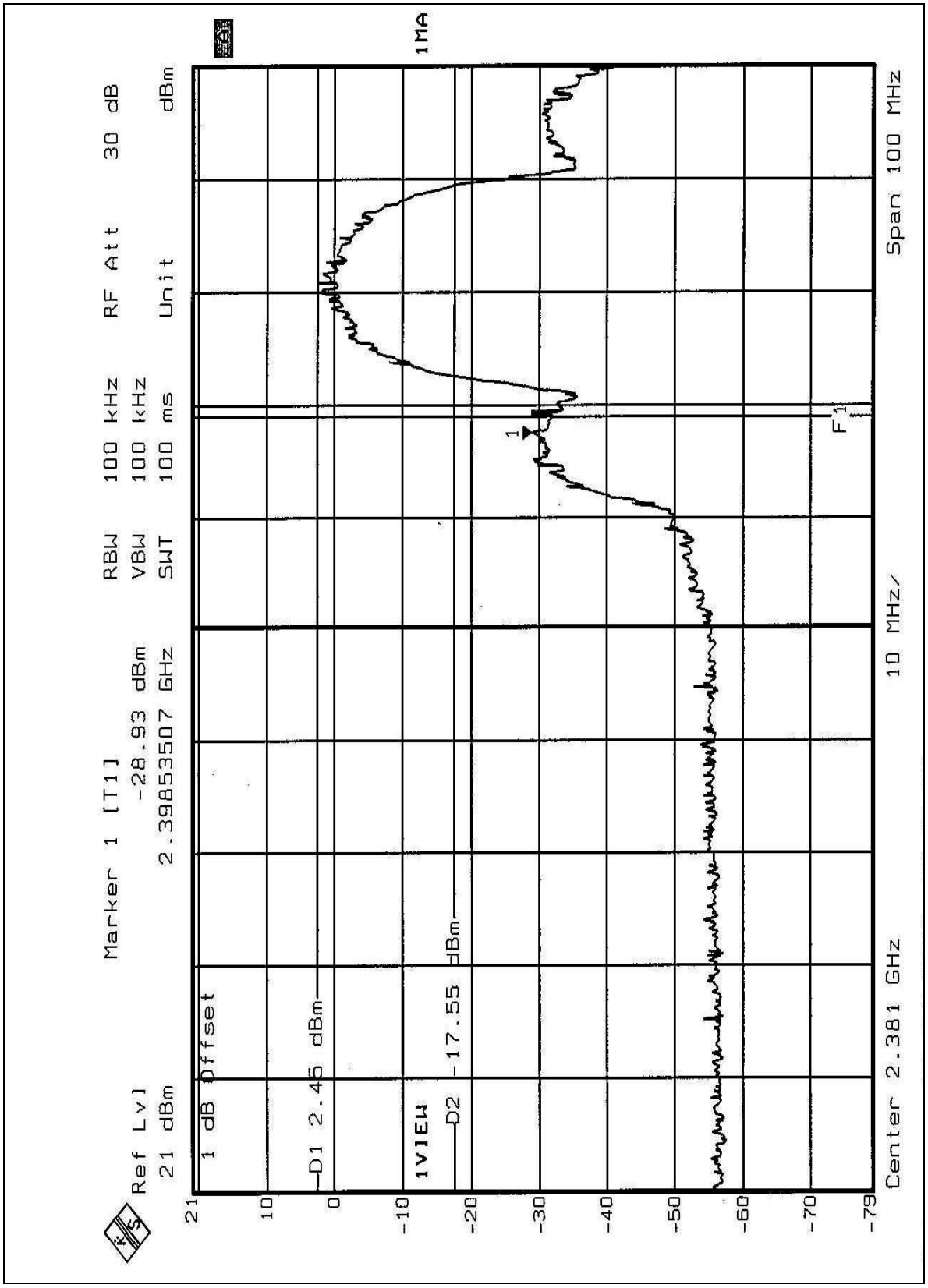
4.6.5 TEST RESULTS

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).

NOTE1: The band edge emission plot on the following first page shows 49.55dB delta between carrier maximum power and local maximum emission in restrict band (2.4880GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.6 (Page 26) is 100.7dBuV/m, so the maximum field strength in restrict band is 100.7-49.55=51.15dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following second page shows 50.45dB delta between carrier maximum power and local maximum emission in restrict band (2.3890GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.6 (Page 24) is 100.9dBuV/m, so the maximum field strength in restrict band is 100.9-50.45=50.45dBuV/m which is under 54 dBuV/m limit.


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-46.38 dBm
2.48809619 GHz
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
D1 3.17 dBm
D2 -16.83 dBm
Center 2.49 GHz
10 MHz/
Span 100 MHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-28.93 dBm
2.39853507 GHz
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
1MA
D1 2.45 dBm
1VIEW
D2 -17.55 dBm
Center 2.381 GHz
10 MHz/
Span 100 MHz
F1
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

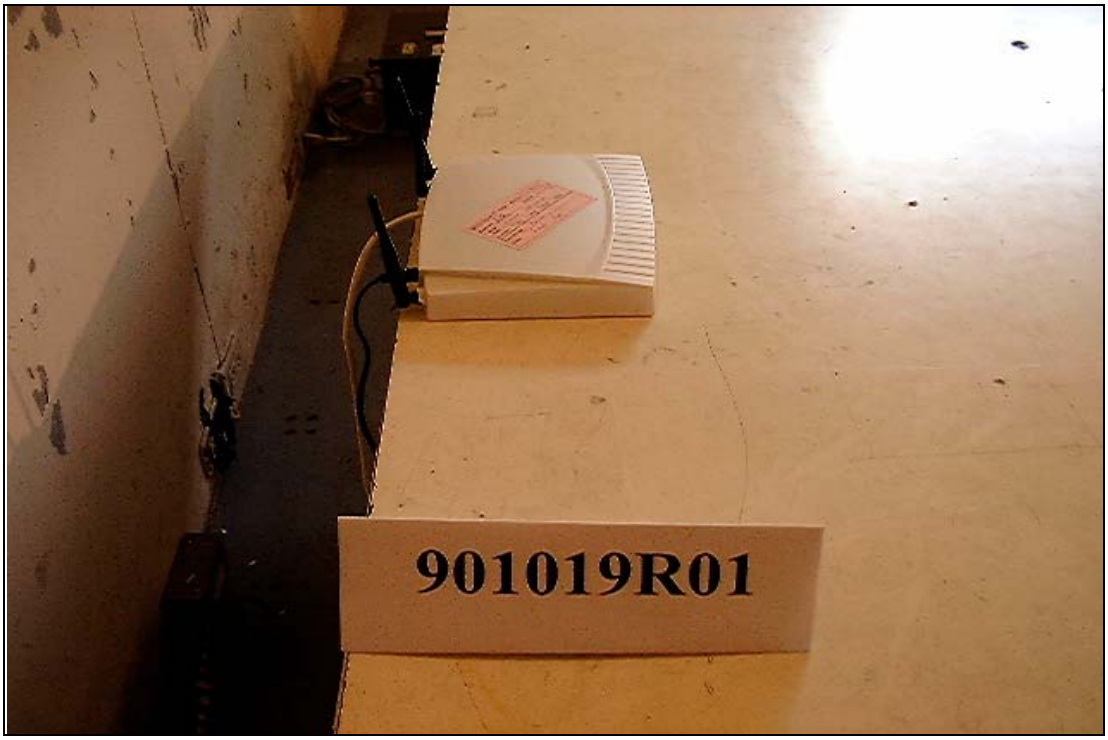
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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. The antenna connector is Reversed SMA connector. The maximum Gain of the antenna is 1dBi only.

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:

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Tel: 886-3-3270910
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The address and road map of all our labs can be found in our web site also.