



FCC TEST REPORT

REPORT NO.: RF920725H01F

MODEL NO.: RBT3K-AG, RBT3K-AG-G

RECEIVED: Jul. 25, 2003

TESTED: Jul. 27 to Oct. 09, 2003

APPLICANT: Accton Technology Corporation

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ISSUED BY: Advance Data Technology Corporation

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1. CERTIFICATION

Reference No.: 921211H02

PRODUCT : Wireless Dual Band Enterprise Access Point
BRAND NAME : Enterasys
MODEL NO. : RBT3K-AG, RBT3K-AG-G
APPLICANT : Accton Technology Corporation
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
Subpart E (Section 15.407), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Jul. 27 to Oct. 09, 2003. 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.

PREPARED BY: Midoli Peng, **DATE:** Feb. 09, 2004
(Midoli Peng)

APPROVED BY: Eric Lin, **DATE:** Feb. 09, 2004
(Eric Lin, 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	PASS	Meet the requirement of limit Minimum passing margin is -10.58dBuV at 1.338MHz
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 -0.9dBuV at 2390.00 MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit



for freq. 5.15~5.35GHz :

APPLIED STANDARD: 47 CFR Part 15, Subpart E			
Standard Section	Test Type	Result	REMARK
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -10.78dBuV at 1.338MHz
15.407(b)(1/2/5)	Electric Field Strength Spurious Emissions, 30 MHz – 40000 MHz	PASS	Meet the requirement of limit Minimum passing margin is -1.0dBuV at 5408.00MHz
15.407(a)(1/2)	Peak Transmit Power	PASS	Meet the requirement of limit
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit



for freq. 5.725~5.850GHz :

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -10.78dBuV at 1.338MHz
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 -1.3dBuV at 5440.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Dual Band Enterprise Access Point
MODEL NO.	RBT3K-AG, RBT3K-AG-G
POWER SUPPLY	5VDC from AC adapter
MODULATION	DSSS, OFDM
TRANSFER RATE	802.11b and draft 802.11g: 1/2/5.5/6/9/11/12/18/24/36/48/54Mbps 802.11a: 6 to 54Mbps (Turbo mode: up to 108Mbps *see note 1)
FREQUENCY RANGE	802.11b and draft 802.11g: 2400MHz ~ 2483.5MHz 802.11a: 5.15~5.35GHz and 5.725~5.850GHz
NUMBER OF CHANNEL	802.11b and draft 802.11g: 11 802.11a: 13 for Normal mode / 5 for Turbo mode
CHANNEL SPACING	802.11b and draft 802.11g: 5MHz 802.11a: 20MHz for Normal mode / 40MHz for Turbo mode
OUTPUT POWER	802.11b: 18.3dBm / draft 802.11g: 18.2dBm 802.11a: 21.0dBm
DATA CABLE	NA
ANTENNA TYPE	Dual-Band Omni-Directional Antenna
I/O PORTS	RJ 45 (POE) Port x 1, Console Port x 1
ASSOCIATED DEVICES	NA

NOTE:

1. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.



2. There is one antenna provided to this EUT, please refer to the following table:

Model No.
R0322-066(without switch)

3. The EUT was powered either adapter or POE (Power Over Ethernet):

Adapter:	
Brand:	DELTA
Model No.:	ADP-15KB REV:C
Input power :	100-240Vac 0.5A 50-60Hz
Output power :	5.1Vdc 3.0A

POE:	
Brand:	3COM
Model No.:	PW130
Input power :	100-250Vac 50-60Hz 500mA
Output power :	48Vdc 420mA
*The POE supplied power to EUT via POE port, only used on testing.	

4. Dual-band, the EUT communicates with Wireless-A (802.11a), Wireless-B, (802.11b), and Wireless-G (draft 802.11g) wireless networks.
5. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

For 802.11b: Eleven channels are provided to 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. The EUT with adapter and with POE were pre-tested in chamber. The EUT with adapter, worst case one, was chosen for final test.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.
4. Test result A is for CCK technique and test result B is for OFDM technique which presented in Section 4.

For 802.11a: Thirteen channels are provided to this EUT for Normal mode.

Channel	Frequency	Channel	Frequency
1	5180 MHz	8	5320 MHz
2	5200 MHz	9	5745MHz
3	5220 MHz	10	5765MHz
4	5240 MHz	11	5785MHz
5	5260 MHz	12	5805MHz
6	5280 MHz	13	5825MHz
7	5300 MHz		

Five channels are provided to this EUT for Turbo Mode.

Channel	Frequency	Channel	Frequency
1	5210 MHz	4	5760MHz
2	5250 MHz	5	5800MHz
3	5290 MHz		

NOTE:

- 1..The EUT was tested in both normal mode (channel bandwidth of approximately 30MHz) and turbo mode (channel bandwidth of approximately 60MHz).
2. "Normal Mode" allows data rates of up to 54Mbps. The device was, therefore, tested in Normal mode at the data rate that produced the highest output power for normal mode (6Mbps).
3. "Turbo Mode" allows data rates of up to 108Mbps. At data rates higher than 12Mbps the PA gain is reduced to improve signal fidelity. The device was, therefore, tested in turbo mode at the data rate that produced the highest output power for turbo mode (12Mbps).
4. Channel 1, 4, 5, 8, 9, 11 and 13 are the closest frequencies to the band edge, were chosen for final test of Normal Mode.
5. Channel 1 ~ 5 were chosen for final test of turbo mode.



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless Dual Band Enterprise Access Point According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**47 CFR Part 15, Subpart C. (15.247),
Subpart E (15.407). 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 47CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

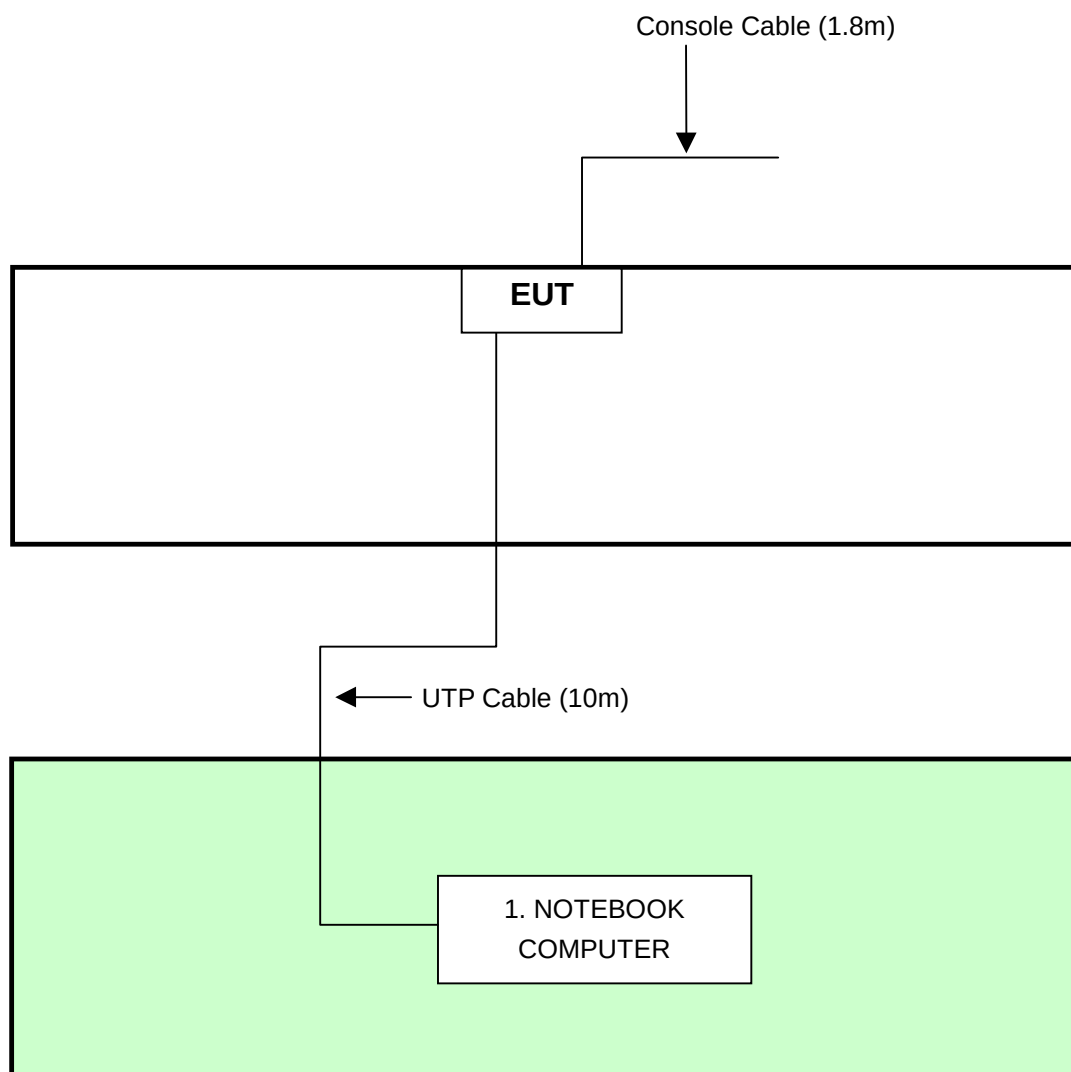
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-09C748-12800-1A3-1999	FCC DoC

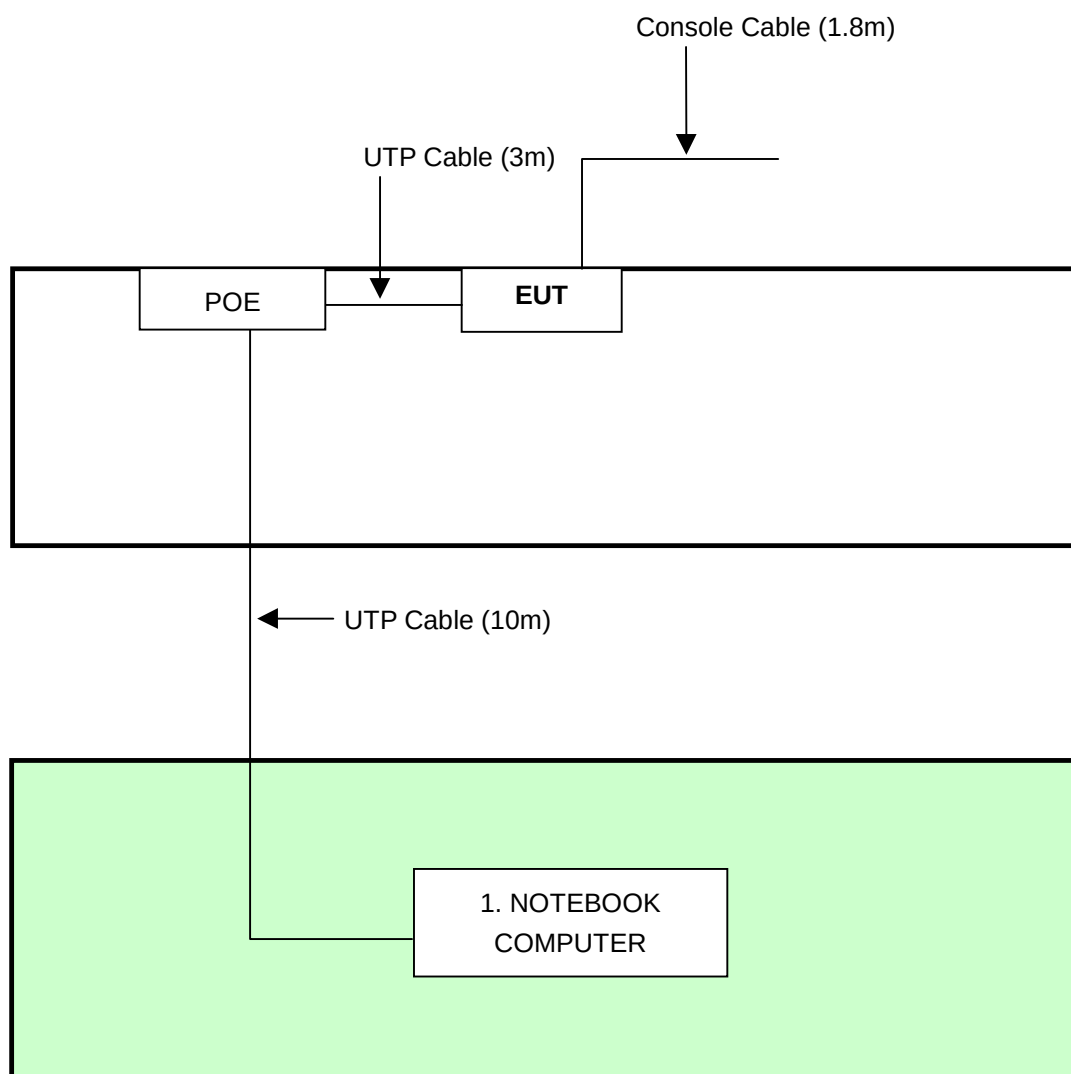
No.	Signal cable description
1	NA

Note: 1. All power cords of the above support units are unshielded (1.8m).

WITH ADAPTER:



NOTE: 1. Support unit 1 was kept in the control room during the test.
 2. Please refer to the photos of test configuration in Item 5 also.

WITH POE:

NOTE: 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

4. TEST TYPES AND RESULTS (FOR PART 802.11b)

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	66 to 56	56 to 46
0.5-5	56	46
5-30	60	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	ESCS 30	847124/029	Nov. 17, 2003
ROHDE & SCHWARZ LISN (for EUT)	ESHS-Z5	848773/004	Nov. 13, 2003
KYORITSU LISN (for peripheral)	KNW-407	8/1395/12	Jul. 23, 2004
RF Cable (JETBAO)	RG233/U	Cable_CA_01	Jul. 03, 2004
Terminator(for KYORITSU)	50	3	Apr. 11, 2004
Software	Cond-V2e	NA	NA

- 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. The test was performed in ADT Shielded Room No. A.
 3. The VCCI Con A Registration No. is C-817.



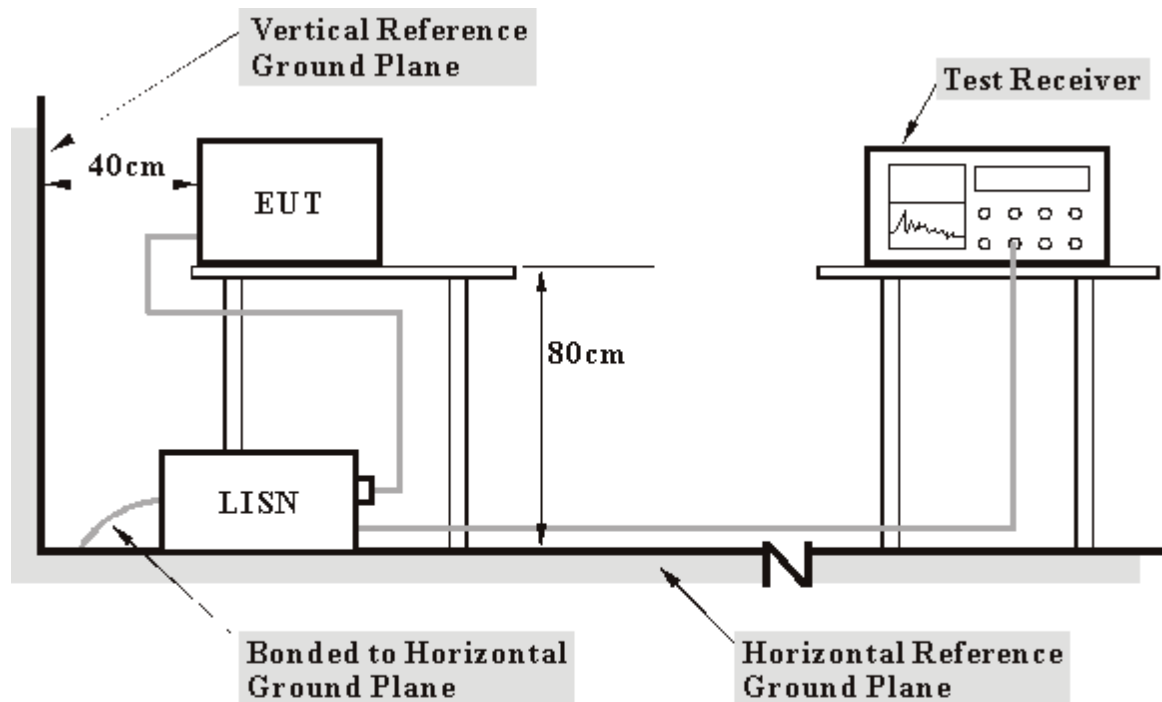
4.1.3 TEST PROCEDURES

- 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 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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.

4.1.6 EUT OPERATING CONDITIONS

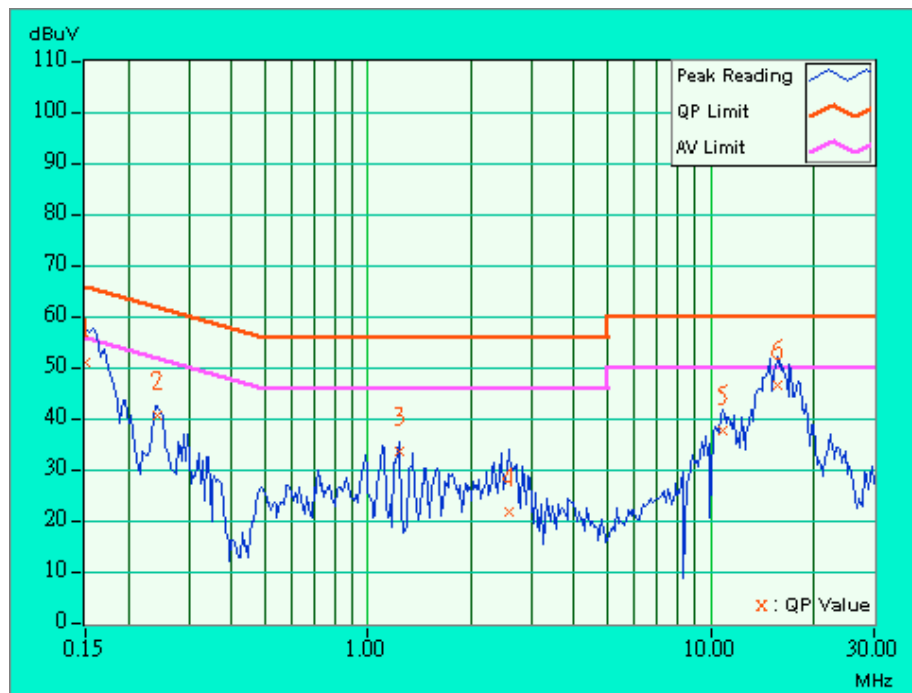
- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via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

4.1.7 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With Adapter, Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 976 hPa	TESTED BY	Lary Peng

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.20	50.03	-	50.23	-	66.00	56.00	-15.77	-
2	0.244	0.20	39.66	-	39.86	-	61.97	51.97	-22.11	-
3	1.232	0.30	32.71	-	33.01	-	56.00	46.00	-22.99	-
4	2.576	0.33	20.91	-	21.24	-	56.00	46.00	-34.76	-
5	10.852	0.85	36.81	-	37.66	-	60.00	50.00	-22.34	-
6	15.715	1.11	45.53	-	46.64	-	60.00	50.00	-13.36	-

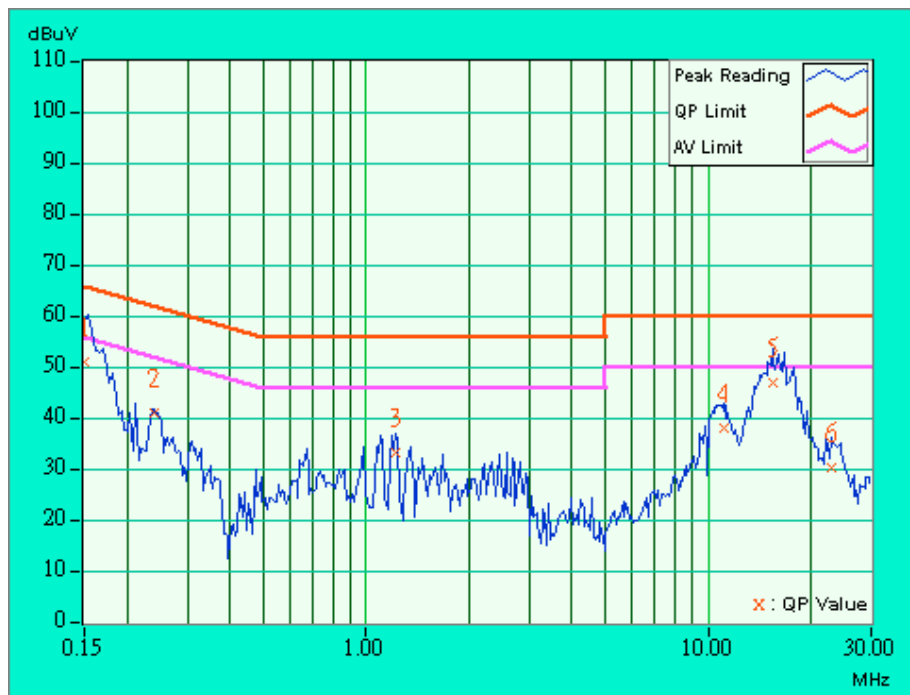
- NOTES: (1) "x": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "x": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With Adapter, Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 976 hPa	TESTED BY	Lary Peng

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.20	49.97	-	50.17	-	66.00	56.00	-15.83	-
2	0.240	0.20	40.06	-	40.26	-	62.10	52.10	-21.84	-
3	1.220	0.30	32.45	-	32.75	-	56.00	46.00	-23.25	-
4	11.105	0.74	37.36	-	38.10	-	60.00	50.00	-21.90	-
5	15.441	0.90	45.93	-	46.83	-	60.00	50.00	-13.17	-
6	23.023	0.96	29.50	-	30.46	-	60.00	50.00	-29.54	-

- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value

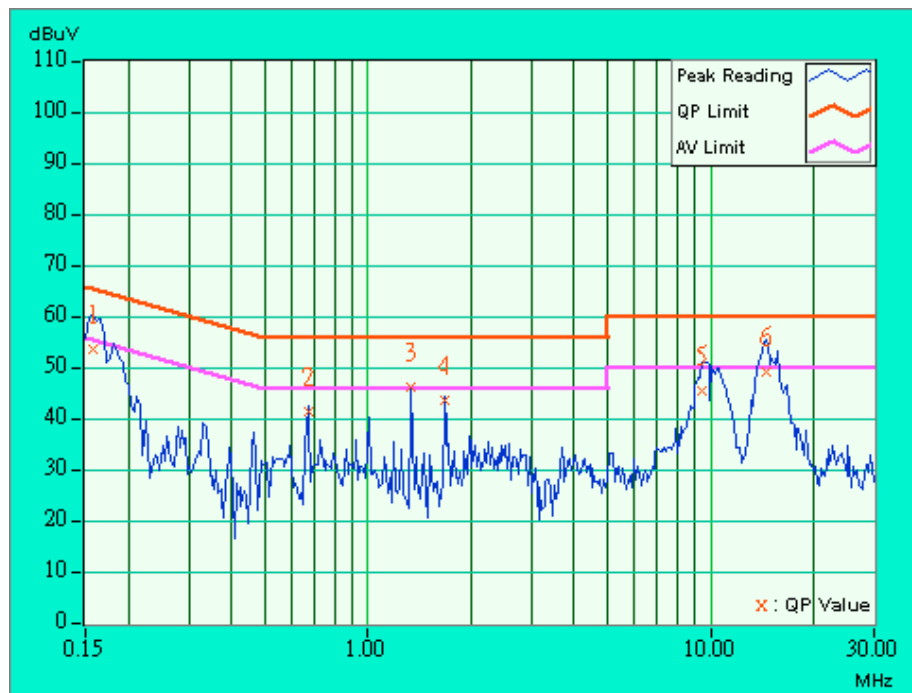


4.1.8 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With POE, Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 976 hPa	TESTED BY	Lary Peng

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	52.78	-	52.98	-	65.58	55.58	-12.60	-
2	0.670	0.24	40.31	-	40.55	-	56.00	46.00	-15.45	-
3	1.338	0.30	45.12	-	45.42	-	56.00	46.00	-10.58	-
4	1.673	0.30	42.80	-	43.10	-	56.00	46.00	-12.90	-
5	9.473	0.76	44.31	-	45.07	-	60.00	50.00	-14.93	-
6	14.570	1.07	48.25	-	49.32	-	60.00	50.00	-10.68	-

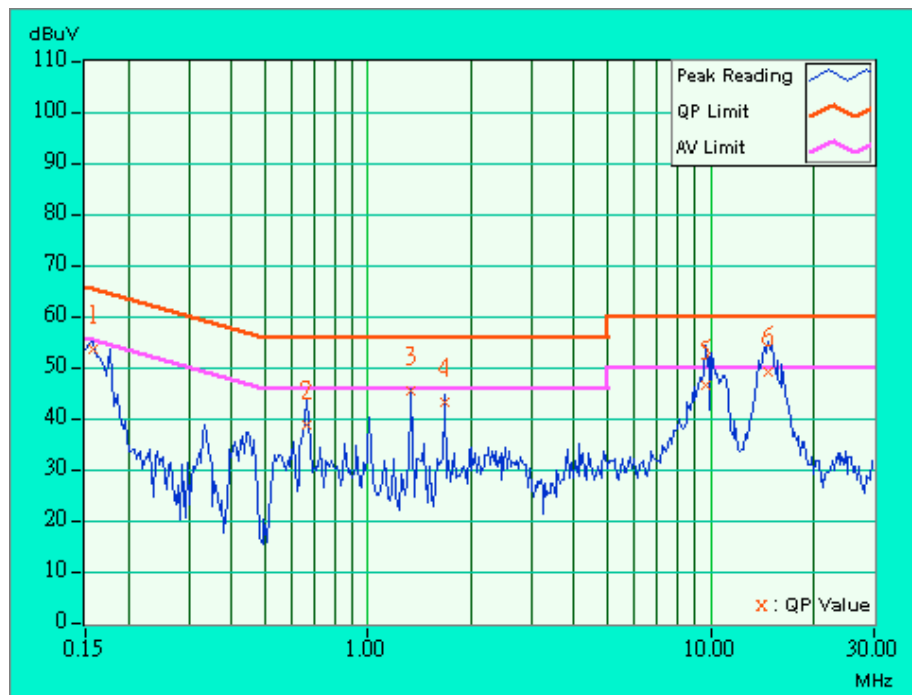
- NOTES: (1) "x": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With POE, Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69%RH, 976 hPa	TESTED BY	Lary Peng

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	52.77	-	52.97	-	65.58	55.58	-12.61	-
2	0.666	0.24	38.11	-	38.35	-	56.00	46.00	-17.65	-
3	1.338	0.30	44.81	-	45.11	-	56.00	46.00	-10.89	-
4	1.673	0.30	42.54	-	42.84	-	56.00	46.00	-13.16	-
5	9.676	0.68	45.71	-	46.39	-	60.00	50.00	-13.61	-
6	14.727	0.89	48.21	-	49.10	-	60.00	50.00	-10.90	-

- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit 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	8594ER	3829U04676	Jul. 14, 2004
ADVANTEST Spectrum Analyzer	R3271A	85060311	May 21, 2004
CHASE RF Pre_Amplifier	CPA9232	1057	Apr. 24, 2004
HP Pre_Amplifier	8449B	3008A01281	June 27, 2004
ROHDE & SCHWARZ Test Receiver	ESVS 10	849231 /019	Nov. 03, 2003
CHASE Broadband Antenna	CBL6111c	2730	Jul 17, 2004
Schwarzbeck Horn_Antenna	3115	5619	Jul. 17, 2004
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170192	Feb. 16, 2005
SCHWARZBECK Tunable Dipole Antenna	UHAP	897	Mar. 07, 2005
SCHWARZBECK Tunable Dipole Antenna	VHAP	880	Mar. 07, 2005
RF Switches (ARNITSU)	CS-201	1565157	Dec. 01, 2003
RF CABLE (Chaintek) 1GHz-20GHz	SF102	22054-2	Feb. 10, 2004
RF Cable(RICHTEC)	9913-30M	STCCAB-30M- 1GHz-021	Nov. 5, 2003
Software	AS60P8	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) 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. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.
7. The CANADA Site Registration No. is IC 3789-C.



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.

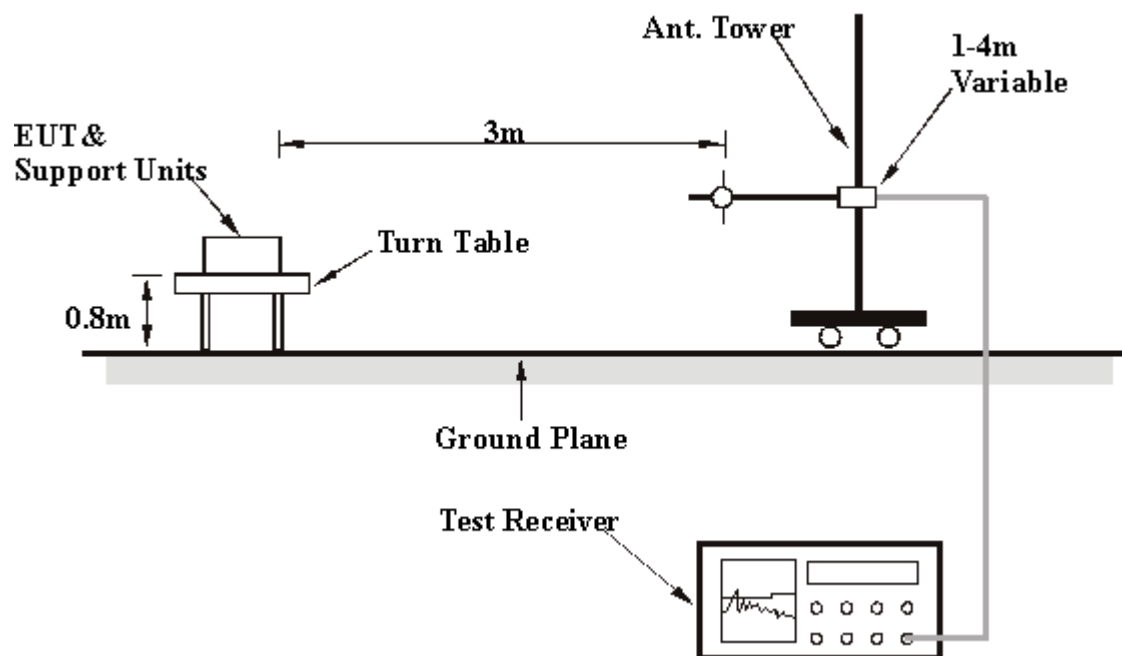
NOTE:

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 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



4.2.7 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With Adapter, Channel 11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	29deg. C, 56%RH, 976 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	40.36	29.9 QP	40.00	-10.10	1.58 H	54	16.30	13.60
2	45.60	24.1 QP	40.00	-15.90	1.06 H	35	13.20	10.90
3	125.12	25.9 QP	43.50	-17.60	1.54 H	356	13.90	12.00
4	220.23	28.0 QP	46.00	-18.00	1.82 H	9	18.60	9.40
5	250.00	29.3 QP	46.00	-16.70	1.28 H	193	16.30	13.00
6	351.56	30.8 QP	46.00	-15.20	1.29 H	99	15.30	15.50
7	375.00	29.2 QP	46.00	-16.80	1.01 H	152	13.00	16.20
8	395.89	37.6 QP	46.00	-8.40	1.22 H	56	20.60	17.00
9	480.00	30.9 QP	46.00	-15.10	1.45 H	30	12.00	18.90
10	499.93	33.9 QP	46.00	-12.10	1.96 H	356	14.60	19.30
11	528.30	41.7 QP	46.00	-4.30	1.87 H	58	22.10	19.60
12	625.20	32.0 QP	46.00	-14.00	1.20 H	58	10.30	21.70

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)	Correction Factor (dB/m)
1	46.20	26.9 QP	40.00	-13.10	1.58 V	54	16.30	10.60
2	60.23	28.7 QP	40.00	-11.30	1.05 V	349	23.50	5.20
3	70.24	23.9 QP	40.00	-16.10	1.18 V	7	18.00	5.90
4	125.02	32.9 QP	43.50	-10.60	1.35 V	66	20.90	12.00
5	220.30	29.7 QP	46.00	-16.30	1.69 V	356	20.30	9.40
6	250.21	29.2 QP	46.00	-16.80	1.57 V	89	16.20	13.00
7	308.12	25.6 QP	46.00	-20.40	1.52 V	3	11.30	14.30
8	352.00	30.5 QP	46.00	-15.50	1.25 V	119	15.00	15.50
9	375.00	30.2 QP	46.00	-15.80	1.47 V	8	14.00	16.20
10	396.11	32.9 QP	46.00	-13.10	1.40 V	267	15.90	17.00
11	500.00	35.3 QP	46.00	-10.70	1.74 V	58	16.00	19.30
12	528.36	41.2 QP	46.00	-4.80	1.01 V	58	21.60	19.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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



EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	With POE, Channel 11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	29deg. C, 56%RH, 976 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	52.00	24.9 QP	40.00	-15.10	2.17 H	25	17.30	7.60
2	60.25	22.1 QP	40.00	-17.90	1.68 H	0	16.90	5.20
3	124.95	25.4 QP	43.50	-18.10	1.13 H	169	13.30	12.00
4	220.16	24.8 QP	46.00	-21.20	1.00 H	42	15.30	9.40
5	249.85	27.6 QP	46.00	-18.40	1.42 H	199	14.60	13.00
6	264.49	32.9 QP	46.00	-13.10	1.39 H	68	18.90	14.00
7	351.63	29.4 QP	46.00	-16.60	1.07 H	190	13.90	15.50
8	374.98	31.8 QP	46.00	-14.20	1.10 H	140	15.60	16.20
9	500.13	33.4 QP	46.00	-12.60	1.35 H	29	14.10	19.30
10	527.53	39.0 QP	46.00	-7.00	1.84 H	323	19.40	19.60

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)	Correction Factor (dB/m)
1	50.50	32.4 QP	40.00	-7.60	1.48 V	229	24.10	8.30
2	56.13	30.4 QP	40.00	-9.60	1.25 V	161	24.10	6.40
3	69.01	36.7 QP	40.00	-3.30	1.61 V	345	31.00	5.80
4	71.10	32.8 QP	40.00	-7.20	1.66 V	119	26.70	6.10
5	124.96	26.6 QP	43.50	-16.90	1.02 V	25	14.60	12.00
6	250.02	27.0 QP	46.00	-19.00	1.00 V	12	14.00	13.00
7	264.45	28.1 QP	46.00	-17.90	1.36 V	37	14.00	14.00
8	374.72	32.2 QP	46.00	-13.80	1.00 V	351	16.00	16.20
9	396.33	33.1 QP	46.00	-12.90	1.43 V	344	16.10	17.00
10	500.23	33.9 QP	46.00	-12.10	1.38 V	37	14.60	19.30
11	527.52	39.9 QP	46.00	-6.10	1.50 V	174	20.30	19.60
12	625.37	32.6 QP	46.00	-13.40	1.14 V	27	10.90	21.70

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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.



TEST RESULTS (A)- DSSS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 1	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH, 974 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	2368.00	53.9 PK	74.00	-20.10	1.03 H	25	24.20	29.70
1	2368.00	41.9 AV	54.00	-12.10	1.03 H	25	12.20	29.70
2	2390.00	54.4 PK	74.00	-19.60	1.08 H	333	24.60	29.80
2	2390.00	45.5 AV	54.00	-8.50	1.08 H	333	15.70	29.80
3	*2412.00	100.2 PK			1.56 H	132	70.30	29.90
3	*2412.00	93.9 AV			1.56 H	132	64.00	29.90
4	4824.00	39.6 PK	74.00	-34.40	1.02 H	25	3.30	36.20
4	4824.00	28.6 AV	54.00	-25.40	1.02 H	25	3.30	36.20
5	7236.00	45.9 PK	74.00	-28.10	1.45 H	21	4.20	41.70
5	7236.00	35.9 AV	54.00	-18.10	1.45 H	21	4.20	41.70
6	9648.00	46.4 PK	74.00	-27.60	1.44 H	101	1.50	44.90
6	9648.00	36.9 AV	54.00	-17.10	1.44 H	101	1.50	44.90

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)	Correction Factor (dB/m)
1	2368.00	59.9 PK	74.00	-14.10	1.14 V	304	30.20	29.70
1	2368.00	50.5 AV	54.00	-3.50	1.14 V	304	20.80	29.70
2	2390.00	61.2 PK	74.00	-12.80	1.40 V	25	31.40	29.80
2	2390.00	53.1 AV	54.00	-0.90	1.40 V	25	23.30	29.80
3	*2412.00	107.9 PK			1.03 V	32	78.00	29.90
3	*2412.00	100.8 AV			1.03 V	32	70.90	29.90
4	4824.00	42.9 PK	74.00	-31.10	1.02 V	65	6.60	36.20
4	4824.00	30.8 AV	54.00	-23.20	1.02 V	65	6.60	36.20
5	7236.00	49.3 PK	74.00	-24.70	1.87 V	54	7.70	41.70
5	7236.00	38.3 AV	54.00	-15.70	1.87 V	54	7.70	41.70
6	9648.00	51.1 PK	74.00	-22.90	1.64 V	319	6.20	44.90
6	9648.00	40.5 AV	54.00	-13.50	1.64 V	319	-4.40	36.20

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
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	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 6	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 67%RH, 974 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	2384.00	52.90 PK	74.00	-21.10	1.05 H	42	22.50	30.40
1	2384.00	43.60 AV	54.00	-10.40	1.05 H	42	13.20	30.40
2	*2437.00	106.50 PK			1.69 H	98	75.80	30.70
2	*2437.00	96.90 AV			1.69 H	98	66.20	30.70
3	2494.00	54.40 PK	74.00	-19.60	1.59 H	353	23.60	30.80
3	2494.00	45.40 AV	54.00	-8.60	1.59 H	353	14.60	30.80
4	4874.00	41.70 PK	74.00	-32.30	1.70 H	215	5.20	36.50
5	7311.00	46.90 PK	74.00	-27.10	1.02 H	29	5.10	41.80
6	9748.00	50.50 PK	74.00	-23.50	1.63 H	261	5.90	44.60

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)	Correction Factor (dB/m)
1	2384.00	59.20 PK	74.00	-14.80	1.45 V	7	28.80	30.40
1	2384.00	51.00 AV	54.00	-3.00	1.45 V	7	20.60	30.40
2	*2437.00	111.00 PK			1.03 V	50	80.30	30.70
2	*2437.00	102.90 AV			1.03 V	50	72.20	30.70
3	2494.00	61.20 PK	74.00	-12.80	1.56 V	96	30.40	30.80
3	2494.00	52.90 AV	54.00	-1.10	1.56 V	96	22.10	30.80
4	4874.00	45.40 PK	74.00	-28.60	1.45 V	213	8.90	36.50
5	7311.00	50.00 PK	74.00	-24.00	1.06 V	9	8.20	41.80
6	9748.00	53.70 PK	74.00	-20.30	1.05 V	241	9.10	44.60
6	9748.00	42.50 AV	54.00	-11.50	1.05 V	241	-2.10	44.60

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
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	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 11	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH, 974 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	100.2 PK			1.04 H	25	70.10	30.10
1	*2462.00	93.3 AV			1.04 H	25	63.20	30.10
2	2483.50	54.4 PK	74.00	-19.60	1.42 H	25	24.20	30.10
2	2483.50	43.3 AV	54.00	-10.70	1.42 H	25	13.20	30.10
3	4924.00	38.8 PK	74.00	-35.20	1.45 H	247	2.10	36.70
3	4924.00	28.8 AV	54.00	-25.20	1.45 H	247	2.10	36.70
4	7386.00	45.2 PK	74.00	-28.80	1.45 H	247	3.30	41.80
4	7386.00	35.7 AV	54.00	-18.30	1.45 H	247	3.30	41.80
5	9848.00	49.4 PK	74.00	-24.60	1.52 H	324	5.00	44.40
5	9848.00	37.8 AV	54.00	-16.20	1.52 H	324	5.00	44.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.2 PK			1.05 V	326	77.10	30.10
1	*2462.00	101.0 AV			1.05 V	326	70.90	30.10
2	2483.50	60.3 PK	74.00	-13.70	1.08 V	208	30.20	30.10
2	2483.50	53.0 AV	54.00	-1.00	1.08 V	208	22.90	30.10
3	4924.00	43.8 PK	74.00	-30.20	1.25 V	352	7.10	36.70
3	4924.00	33.0 AV	54.00	-21.00	1.25 V	352	7.10	36.70
4	7386.00	48.2 PK	74.00	-25.80	1.40 V	141	6.40	41.80
4	7386.00	38.3 AV	54.00	-15.70	1.40 V	141	6.40	41.80
5	9848.00	50.4 PK	74.00	-23.60	1.46 V	352	6.00	44.40
5	9848.00	39.4 AV	54.00	-14.60	1.46 V	352	6.00	44.40

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
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



TEST RESULTS (A)- OFDM

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 1	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 56%RH, 974 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	2368.00	51.3 PK	74.00	-22.70	1.23 H	65	21.60	29.70
1	2368.00	41.3 AV	54.00	-12.70	1.23 H	65	11.60	29.70
2	2390.00	54.4 PK	74.00	-19.60	1.54 H	8	24.60	29.80
2	2390.00	46.0 AV	54.00	-8.00	1.54 H	8	16.20	29.80
3	*2412.00	96.0 PK			1.03 H	140	66.10	29.90
3	*2412.00	86.8 AV			1.03 H	140	56.90	29.90
4	4824.00	37.5 PK	74.00	-36.50	1.01 H	21	1.30	36.20
4	4824.00	27.3 AV	54.00	-26.70	1.01 H	21	1.30	36.20
5	7236.00	42.8 PK	74.00	-31.20	1.47 H	54	1.20	41.70
5	7236.00	34.3 AV	54.00	-19.70	1.47 H	54	1.20	41.70
6	9648.00	46.5 PK	74.00	-27.50	1.03 H	352	1.60	44.90
6	9648.00	36.5 AV	54.00	-17.50	1.03 H	352	1.60	44.90

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)	Correction Factor (dB/m)
1	2368.00	58.1 PK	74.00	-15.90	1.23 V	41	28.40	29.70
1	2368.00	49.3 AV	54.00	-4.70	1.23 V	41	19.60	29.70
2	2390.00	61.9 PK	74.00	-12.10	1.25 V	24	32.10	29.80
2	2390.00	52.1 AV	54.00	-1.90	1.25 V	24	22.30	29.80
3	*2412.00	102.4 PK			1.05 V	22	72.50	29.90
3	*2412.00	93.8 AV			1.05 V	22	63.90	29.90
4	4824.00	41.7 PK	74.00	-32.30	1.00 V	21	5.50	36.20
4	4824.00	30.4 AV	54.00	-23.60	1.00 V	21	5.50	36.20
5	7236.00	48.2 PK	74.00	-25.80	1.01 V	21	6.50	41.70
5	7236.00	36.6 AV	54.00	-17.40	1.01 V	21	6.50	41.70
6	9648.00	49.7 PK	74.00	-24.30	1.09 V	0	4.80	44.90
6	9648.00	38.4 AV	54.00	-15.60	1.09 V	0	4.80	44.90

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 6	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 61%RH, 974 hPa	TESTED BY	Eric 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)	Correction Factor (dB/m)
1	2384.00	51.00 PK	74.00	-23.00	1.75 H	65	20.60	30.40
1	2384.00	44.20 AV	54.00	-9.80	1.75 H	65	13.80	30.40
2	2390.00	52.40 PK	74.00	-21.60	1.26 H	256	22.00	30.40
2	2390.00	41.60 AV	54.00	-12.40	1.26 H	256	11.20	30.40
3	*2437.00	102.00 PK			1.54 H	26	71.30	30.70
3	*2437.00	92.70 AV			1.54 H	26	62.00	30.70
4	2483.50	52.10 PK	74.00	-21.90	1.02 H	78	21.20	31.00
4	2483.50	43.20 AV	54.00	-10.80	1.02 H	78	12.20	31.00
5	4874.00	42.60 PK	74.00	-31.40	1.45 H	54	6.10	36.50
6	7311.00	47.10 PK	74.00	-26.90	1.54 H	226	5.40	41.80
7	9748.00	52.60 PK	74.00	-21.40	1.06 H	98	8.00	44.60
7	9748.00	41.00 AV	54.00	-13.00	1.06 H	98	-3.60	44.60

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)	Correction Factor (dB/m)
1	2384.00	62.10 PK	74.00	-11.90	1.10 V	64	31.70	30.40
1	2384.00	53.00 AV	54.00	-1.00	1.10 V	64	22.60	30.40
2	2390.00	59.60 PK	74.00	-14.40	1.10 V	23	29.10	30.40
2	2390.00	49.90 AV	54.00	-4.10	1.10 V	23	19.40	30.40
3	*2437.00	108.60 PK			1.01 V	49	78.00	30.70
3	*2437.00	99.90 AV			1.01 V	49	69.20	30.70
4	2483.50	59.80 PK	74.00	-14.20	1.12 V	16	28.90	31.00
4	2483.50	50.60 AV	54.00	-3.40	1.12 V	16	19.60	31.00
5	4874.00	46.80 PK	74.00	-27.20	1.54 V	24	10.30	36.50
6	7311.00	50.90 PK	74.00	-23.10	1.50 V	5	9.10	41.80
7	9748.00	54.20 PK	74.00	-19.80	1.42 V	26	9.60	44.60
7	9748.00	42.70 AV	54.00	-11.30	1.42 V	26	-1.90	44.60

NOTE:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
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	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Channel 11	FREQUENCY RANGE	1000MHz~25000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 56%RH, 974 hPa	TESTED BY	Eric Lee

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	93.5 PK			1.08 H	352	63.50	30.10
1	*2462.00	83.3 AV			1.08 H	352	53.30	30.10
2	2483.50	54.3 PK	74.00	-19.70	1.02 H	35	24.20	30.10
2	2483.50	45.3 AV	54.00	-8.70	1.02 H	35	15.20	30.10
3	4924.00	38.7 PK	74.00	-35.30	1.02 H	24	2.00	36.70
3	4924.00	29.2 AV	54.00	-24.80	1.02 H	24	2.00	36.70
4	7386.00	44.6 PK	74.00	-29.40	1.08 H	333	2.70	41.80
4	7386.00	33.6 AV	54.00	-20.40	1.08 H	333	2.70	41.80
5	9848.00	48.1 PK	74.00	-25.90	1.07 H	131	3.70	44.40
5	9848.00	37.2 AV	54.00	-16.80	1.07 H	131	3.70	44.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	102.1 PK			1.11 V	312	72.00	30.10
1	*2462.00	94.1 AV			1.11 V	312	64.00	30.10
2	2483.50	61.2 PK	74.00	-12.80	1.40 V	269	31.10	30.10
2	2483.50	52.9 AV	54.00	-1.10	1.40 V	269	22.80	30.10
3	4924.00	42.8 PK	74.00	-31.20	1.23 V	35	6.10	36.70
3	4924.00	32.8 AV	54.00	-21.20	1.23 V	35	6.10	36.70
4	7386.00	49.2 PK	74.00	-24.80	1.24 V	96	7.30	41.80
4	7386.00	38.5 AV	54.00	-15.50	1.24 V	96	7.30	41.80
5	9848.00	49.3 PK	74.00	-24.70	1.05 V	301	5.00	44.40
5	9848.00	40.8 AV	54.00	-13.20	1.05 V	301	5.00	44.40

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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	FSP	1093.4495.30	Dec. 19, 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.

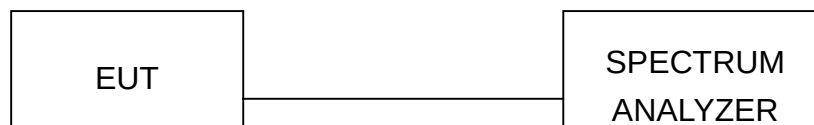
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

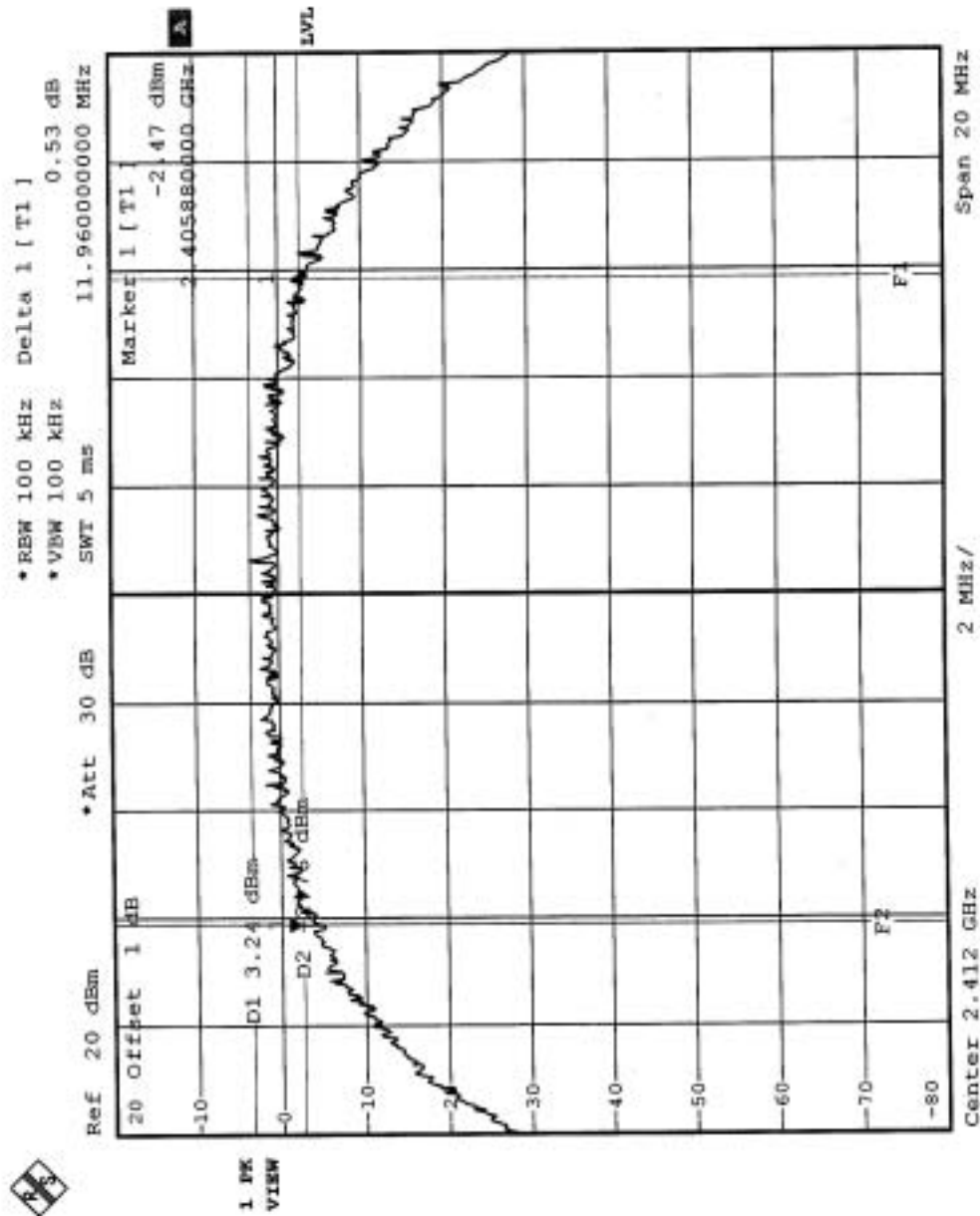


4.3.7 TEST RESULTS (A)

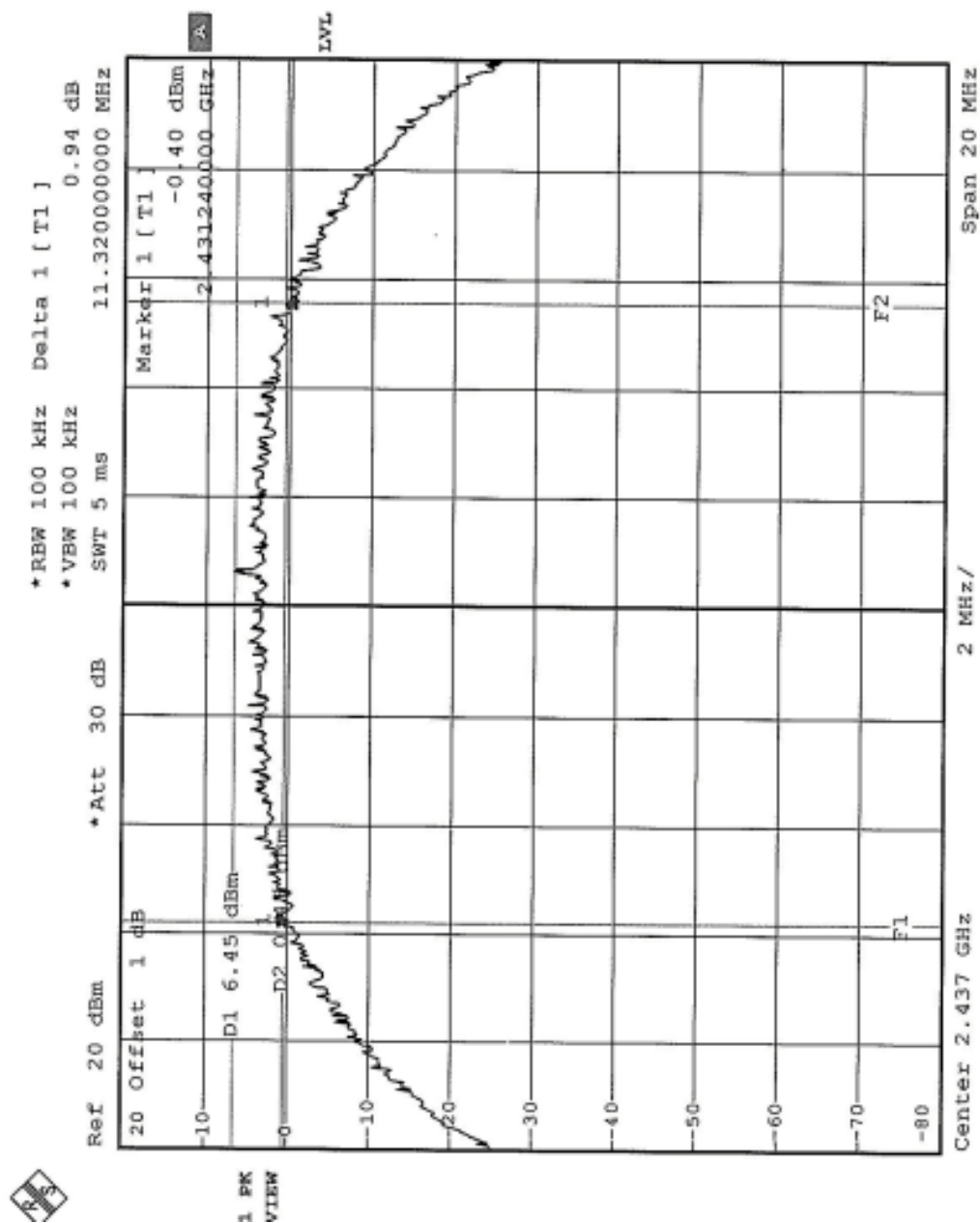
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.96	0.5	PASS
6	2437	11.32	0.5	PASS
11	2462	11.84	0.5	PASS

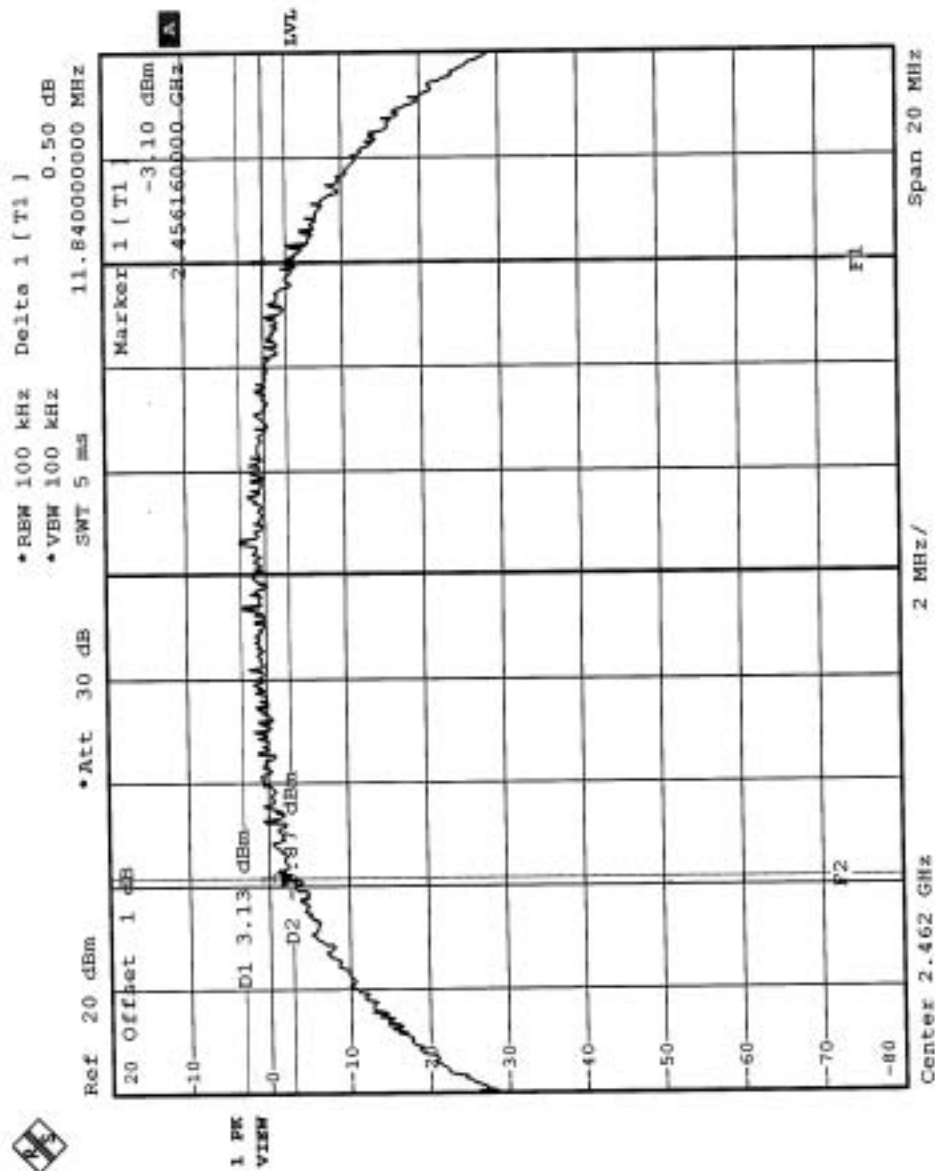
CH1



CH6



CH11



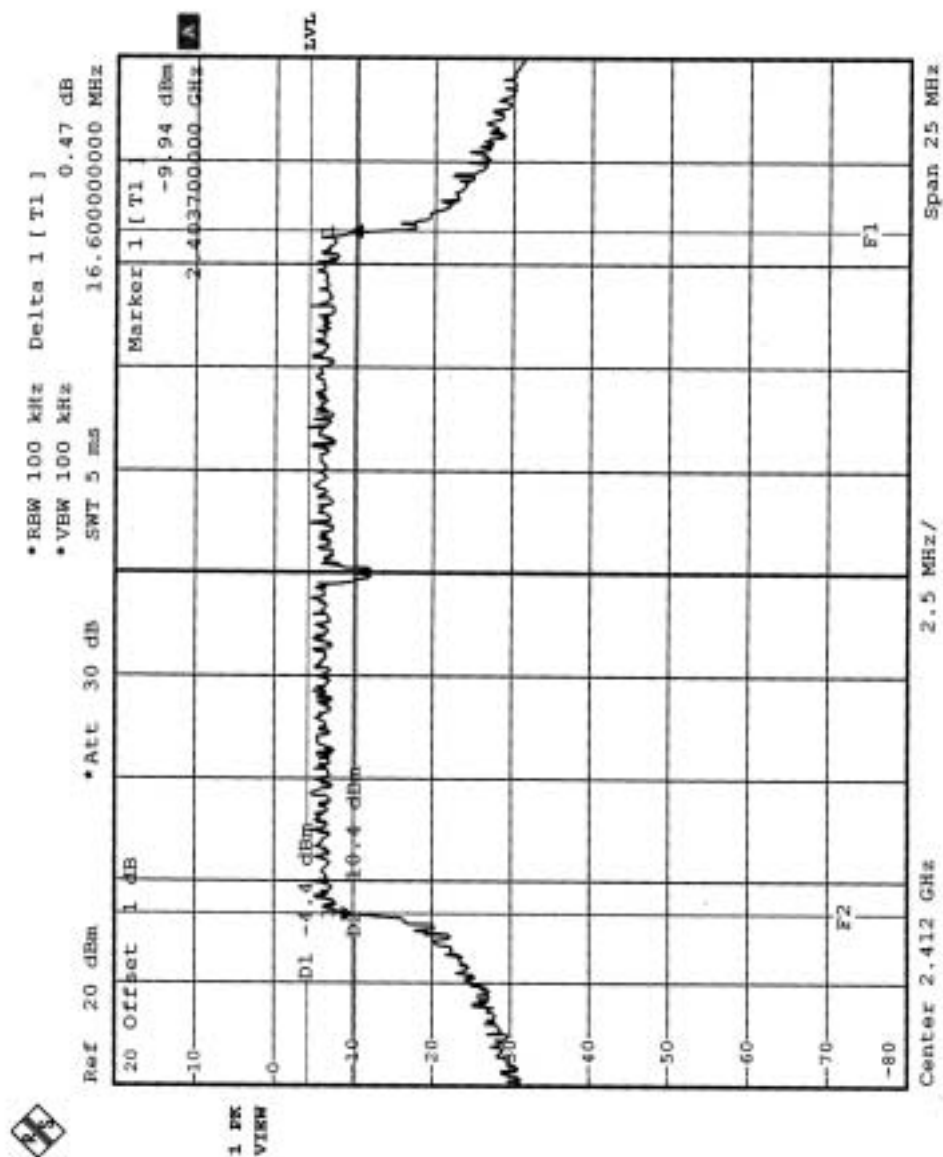


4.3.8 TEST RESULTS (B)

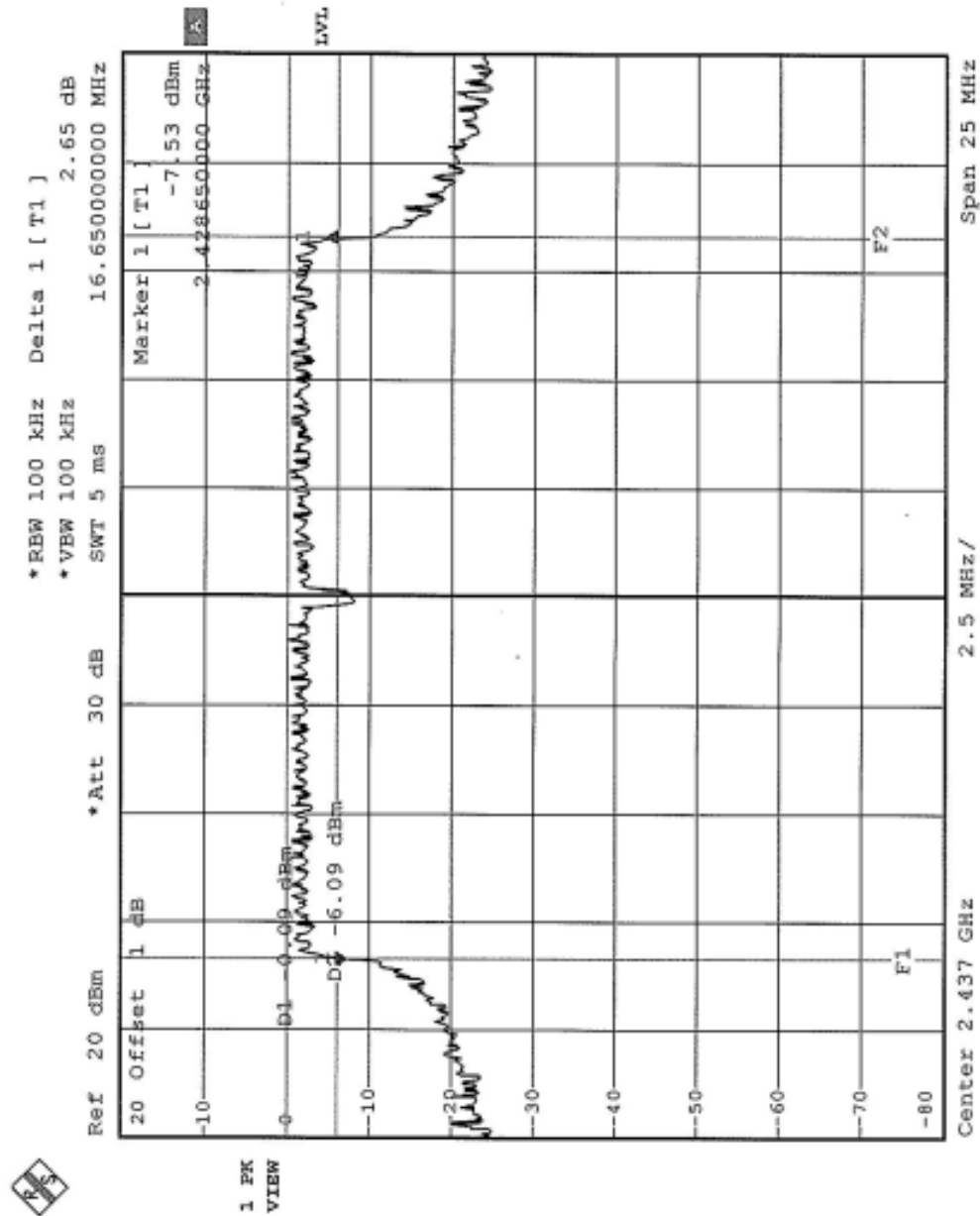
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.6	0.5	PASS
6	2437	16.65	0.5	PASS
11	2462	16.6	0.5	PASS

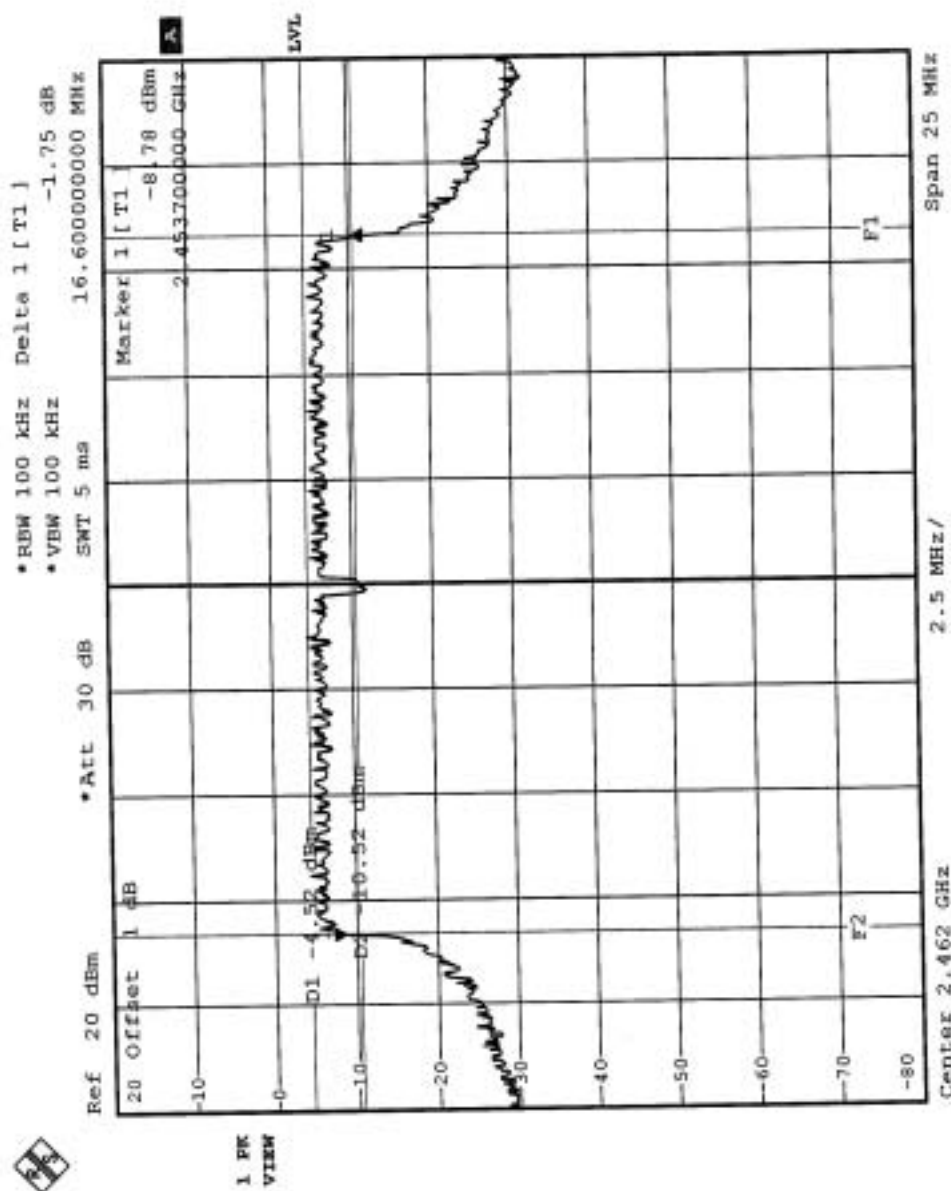
CH1



CH6



CH11



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
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
NARDA DETECTOR	4503A	FSCM99899	NA

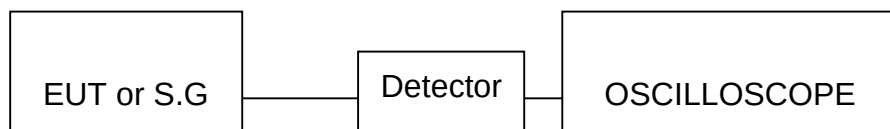
NOTE:

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. A detector was used on the output port of the EUT. An oscilloscope was used to read the peak response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.6 TEST RESULTS (A)

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	19deg. C, 64%RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.63	30	PASS
6	2437	18.3	30	PASS
11	2462	15.29	30	PASS

4.4.7 TEST RESULTS (B)

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	19deg. C, 64%RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.23	30	PASS
6	2437	18.2	30	PASS
11	2462	16.01	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	FSP	1093.4495.30	Dec. 19, 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.

4.5.3 TEST PROCEDURE

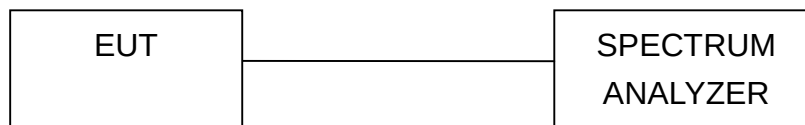
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

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 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

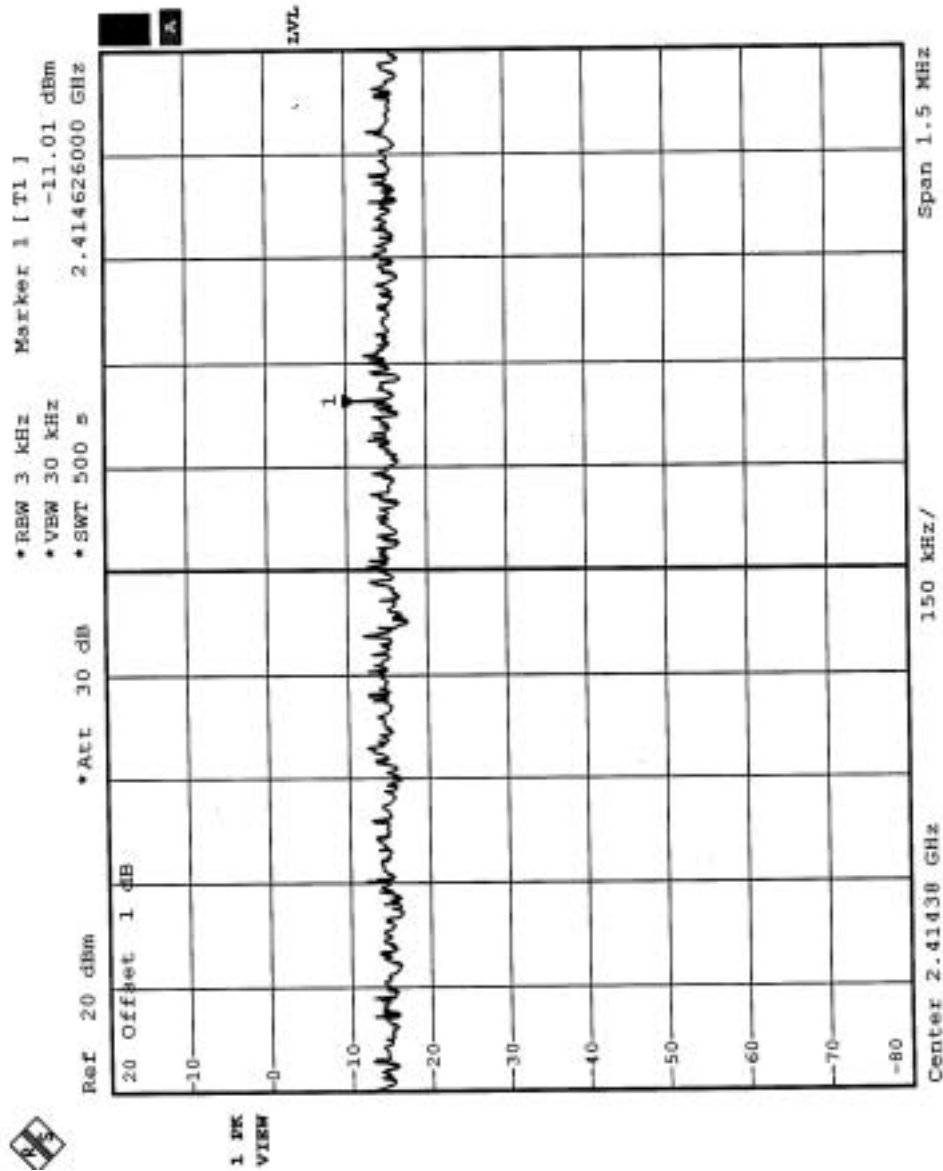


4.5.7 TEST RESULTS(A)

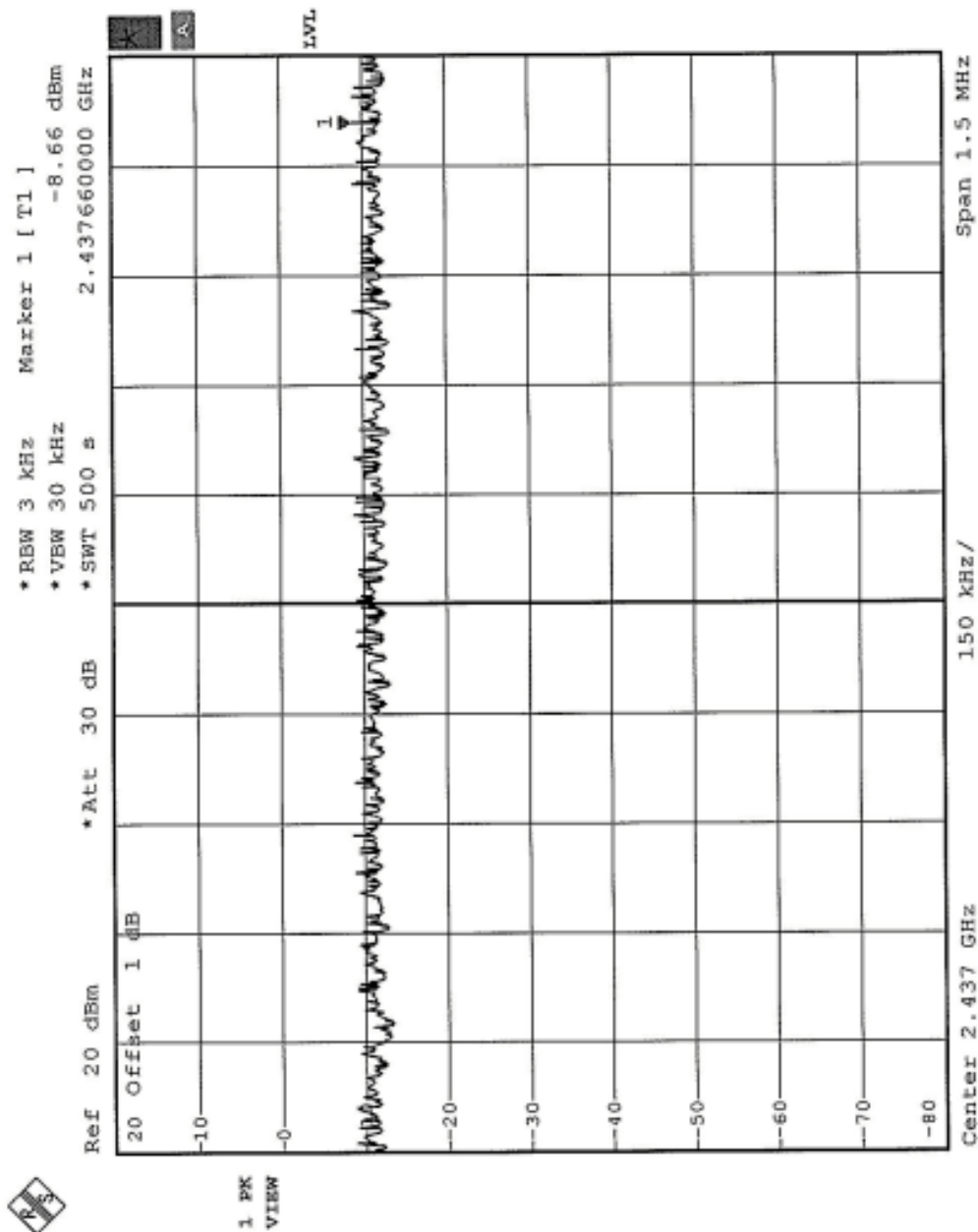
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 58RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.01	8	PASS
6	2437	-8.66	8	PASS
11	2462	-11.28	8	PASS

CH1



CH6



*RBW 3 kHz
 *VBW 30 kHz
 *SWT 500 s

Ref 20 dBm
 *Att 30 dB

20 Offset 1 dB
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80

Center 2.461237 GHz
 Span 1.5 MHz

Marker 1 [T1]
 -11.28 dBm
 2.461318000 GHz

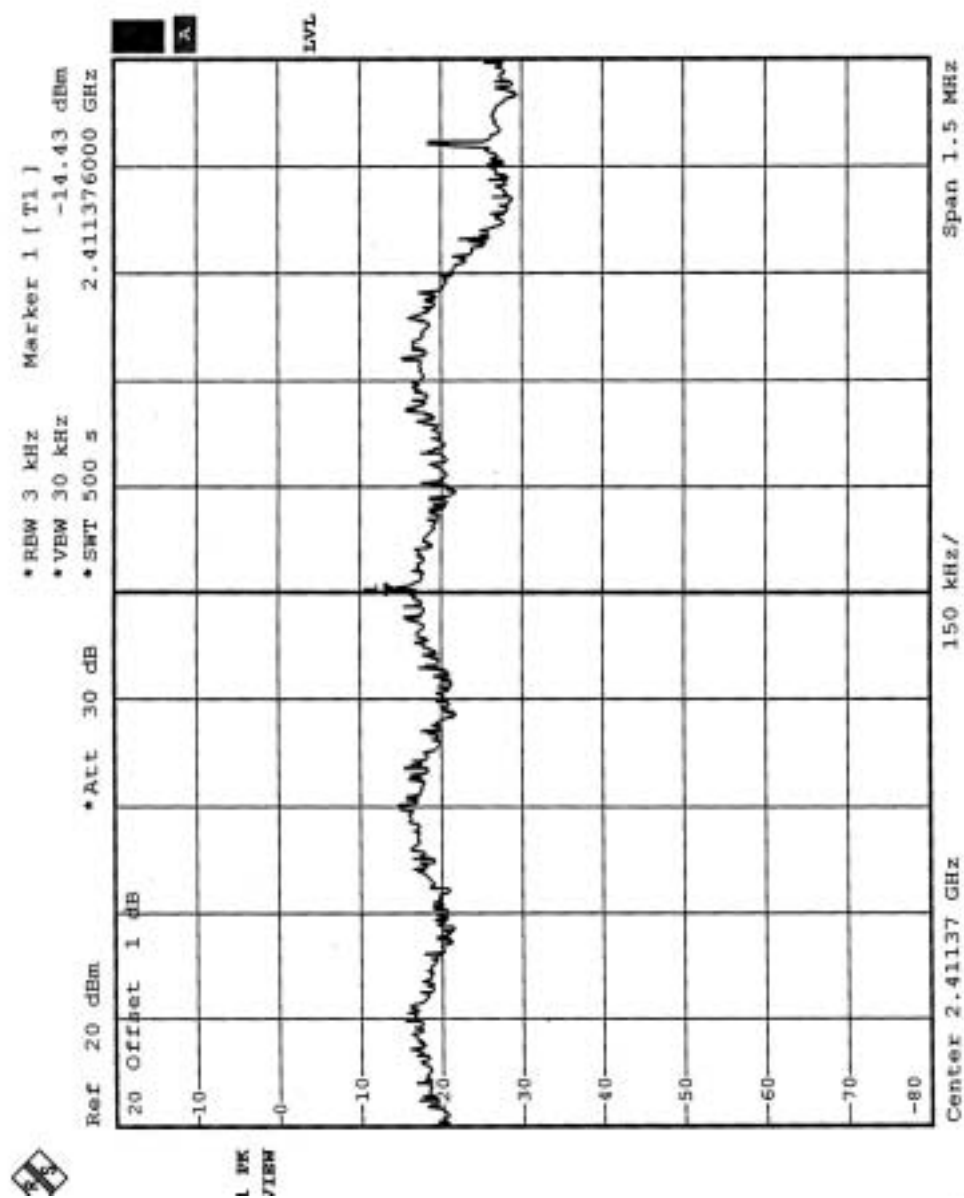


4.5.8 TEST RESULTS(B)

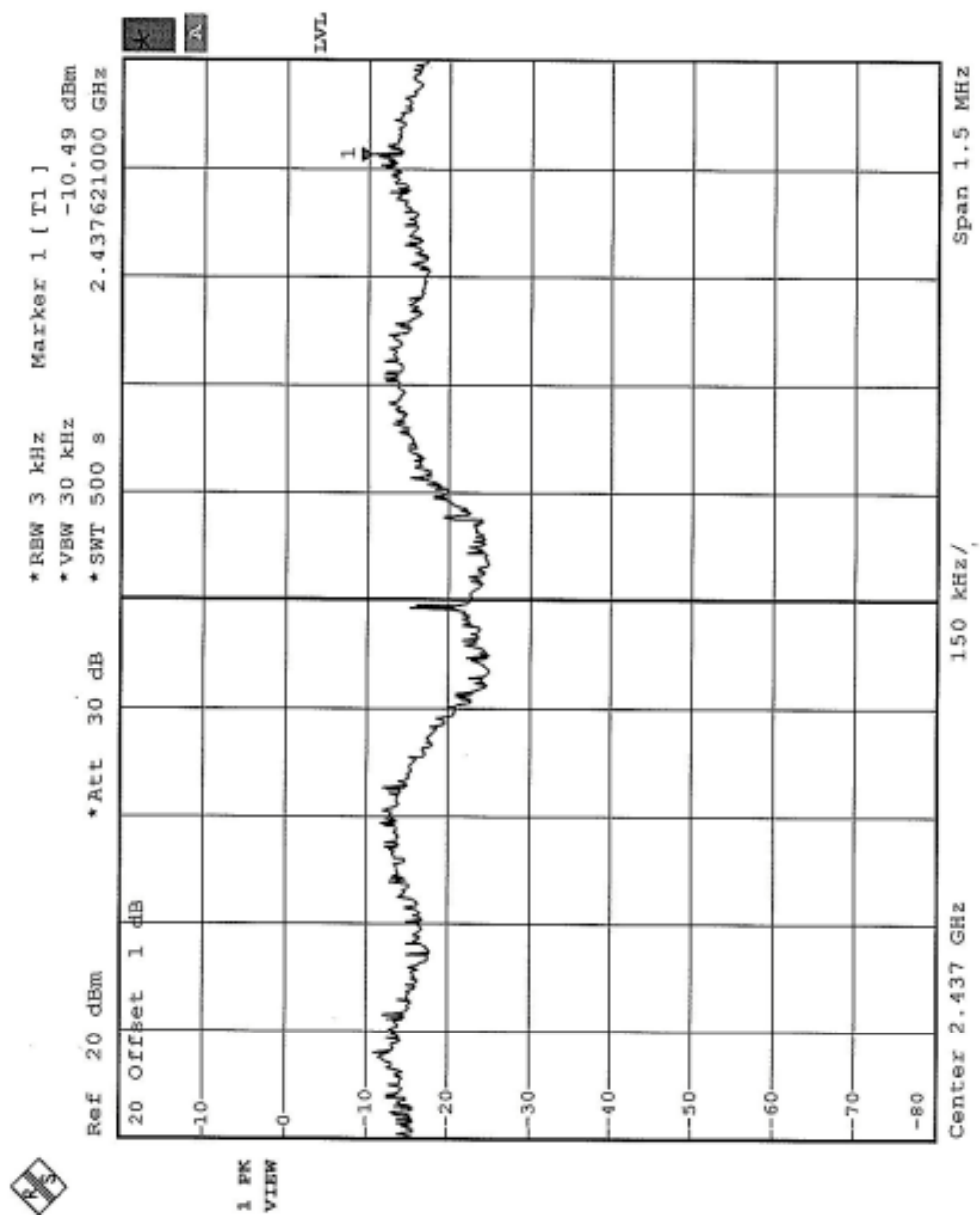
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 58RH, 974 hPa
TESTED BY	Eric Lee		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.43	8	PASS
6	2437	-10.49	8	PASS
11	2462	-14.59	8	PASS

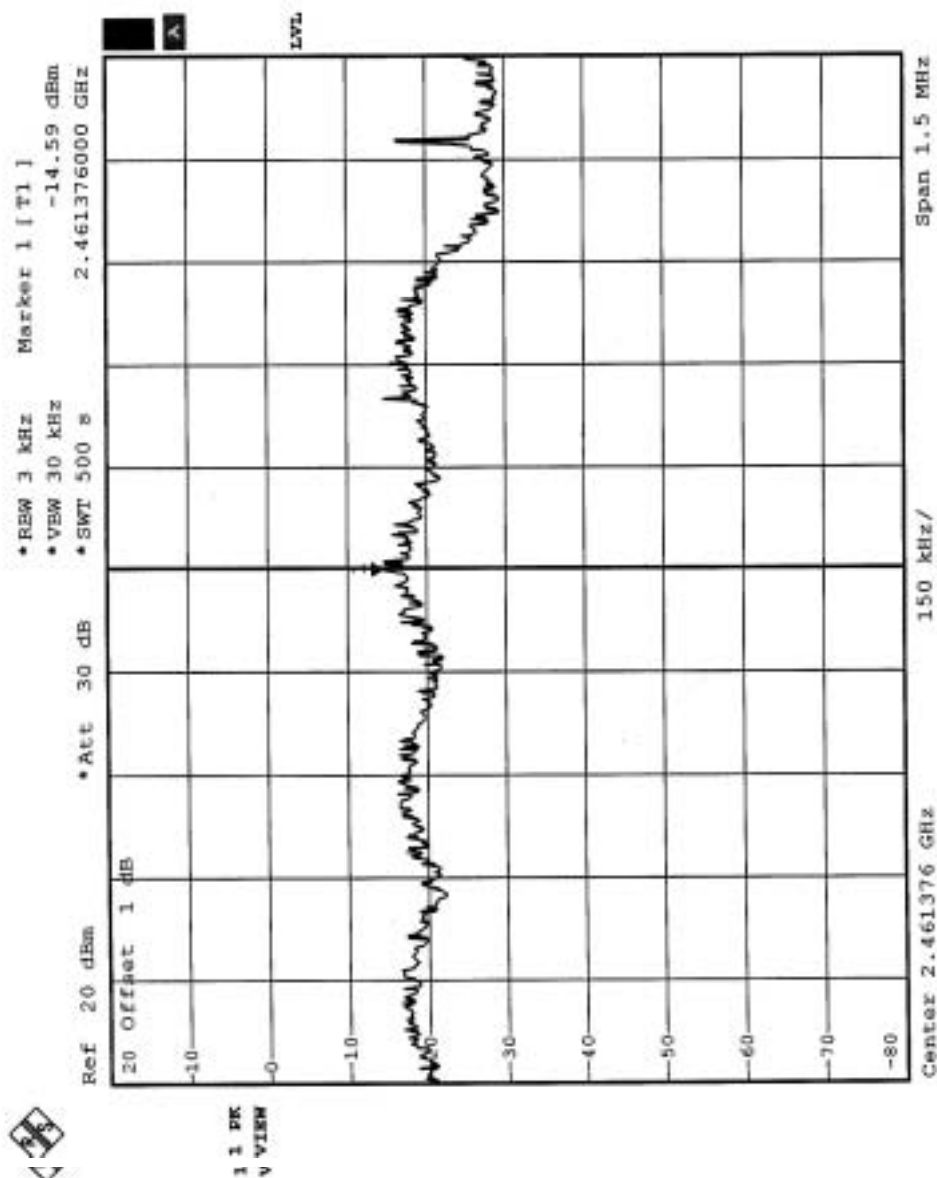
CH1



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	FSP	1093.4495.30	Dec. 19, 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.

4.6.3 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 DEVIATION FROM TEST STANDARD

No deviation



4.6.5 EUT OPERATING CONDITION

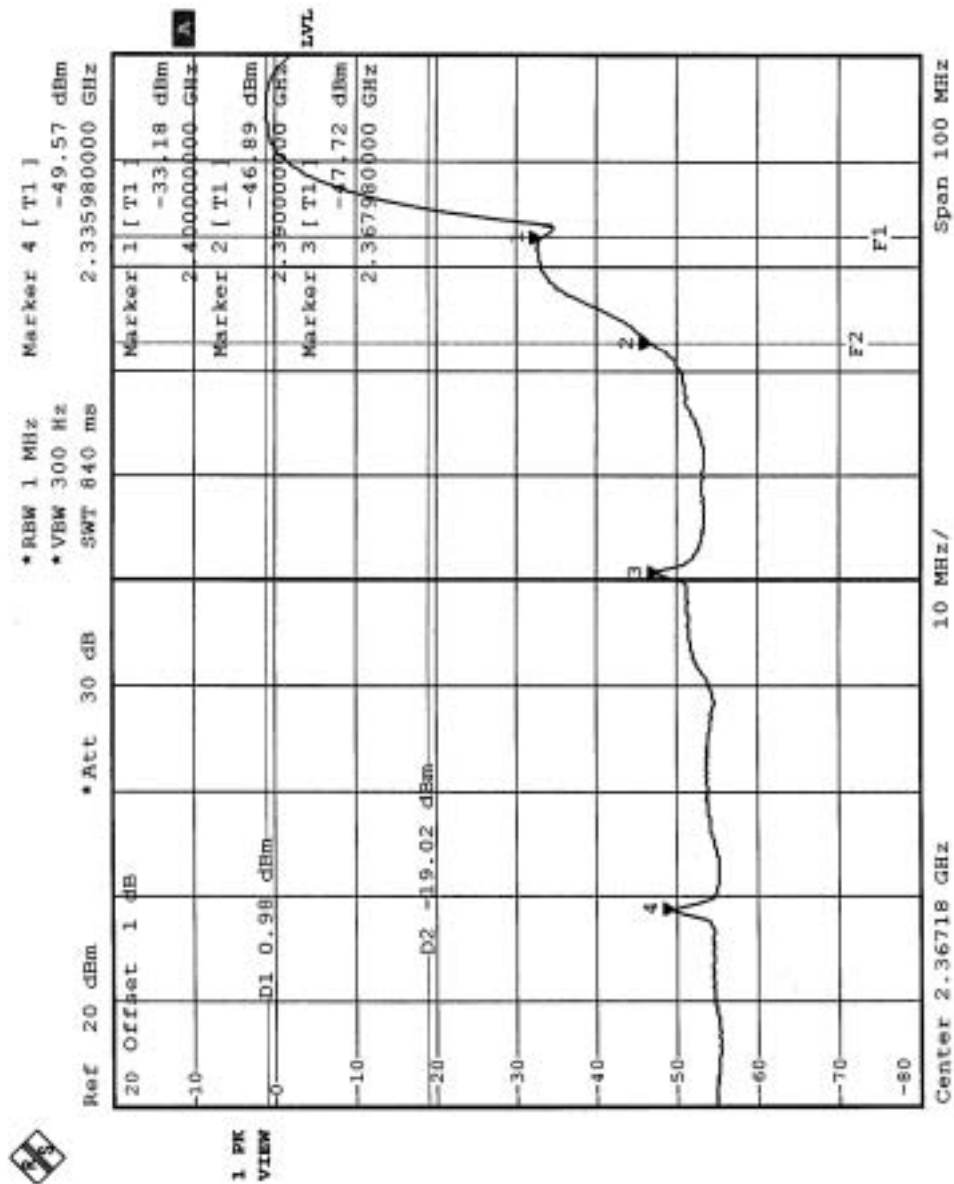
Same as Item 4.3.6

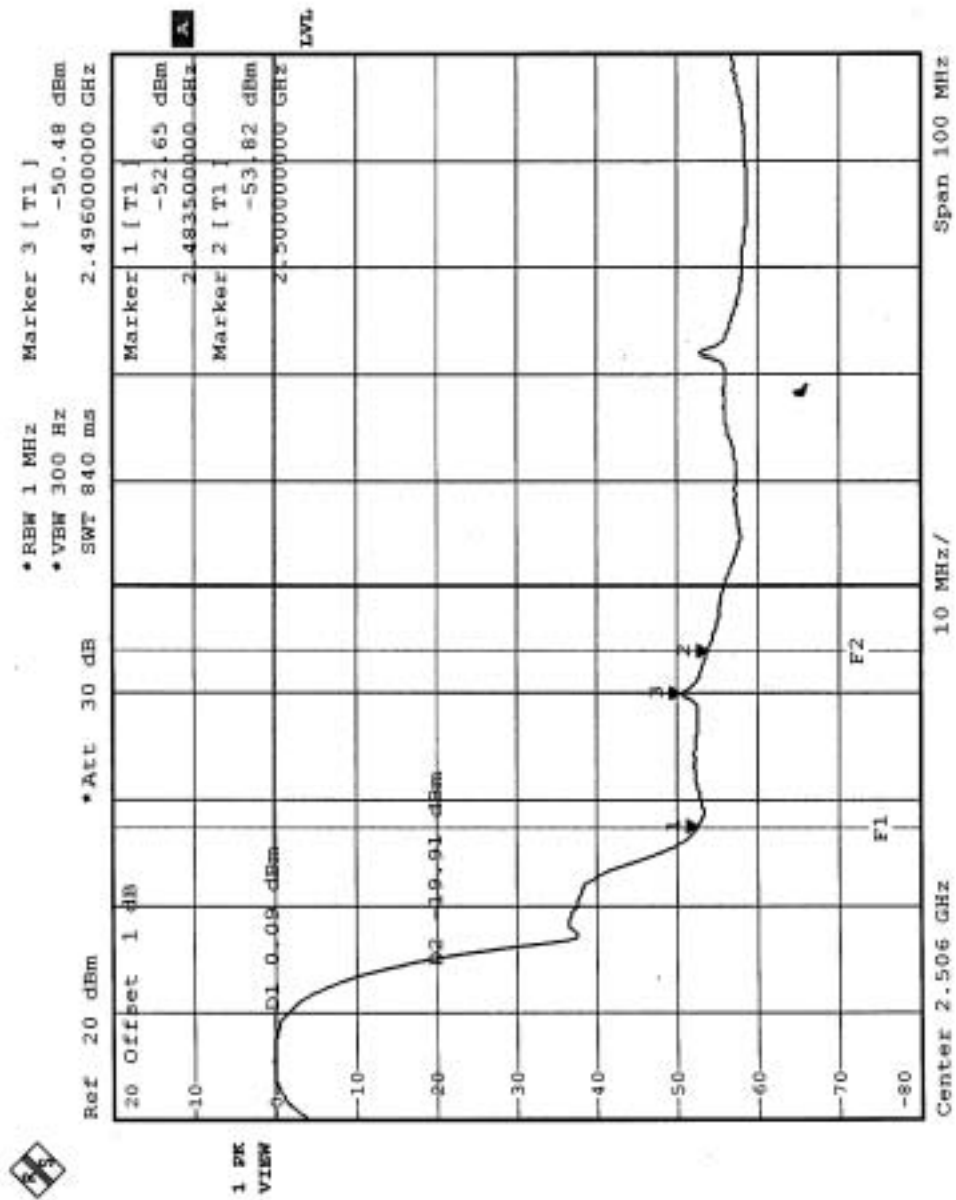
4.6.6 TEST RESULTS (A)

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

NOTE (1): The band edge emission plot on the following first page shows 47.87dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 100.8dBuV/m, so the maximum field strength in restrict band is $100.8 - 47.87 = 52.93$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 50.57 dB delta between carrier maximum power and local maximum emission in restrict band (2.496GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 101.0dBuV/m, so the maximum field strength in restrict band is $101.0 - 50.57 = 50.43$ dBuV/m which is under 54 dBuV/m limit.





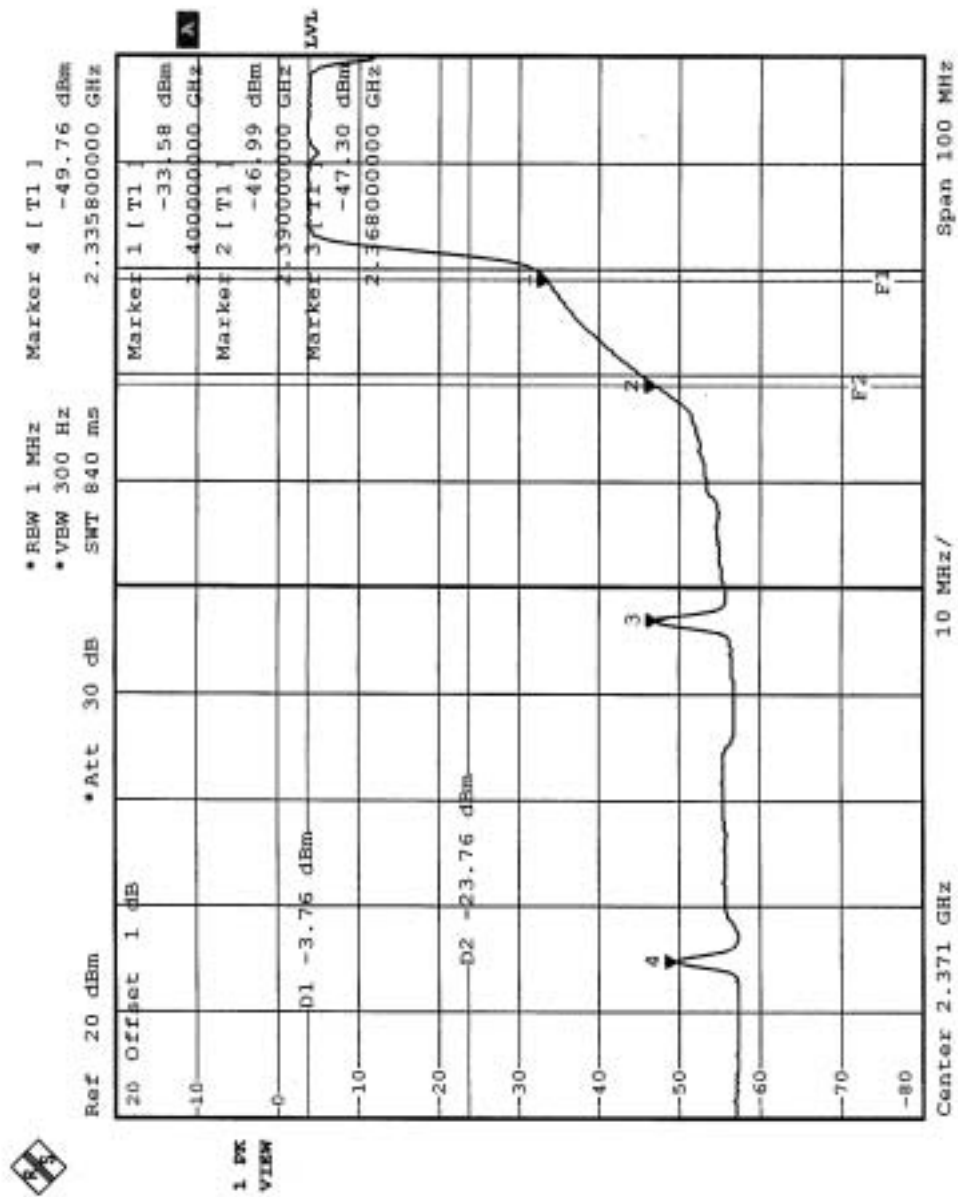


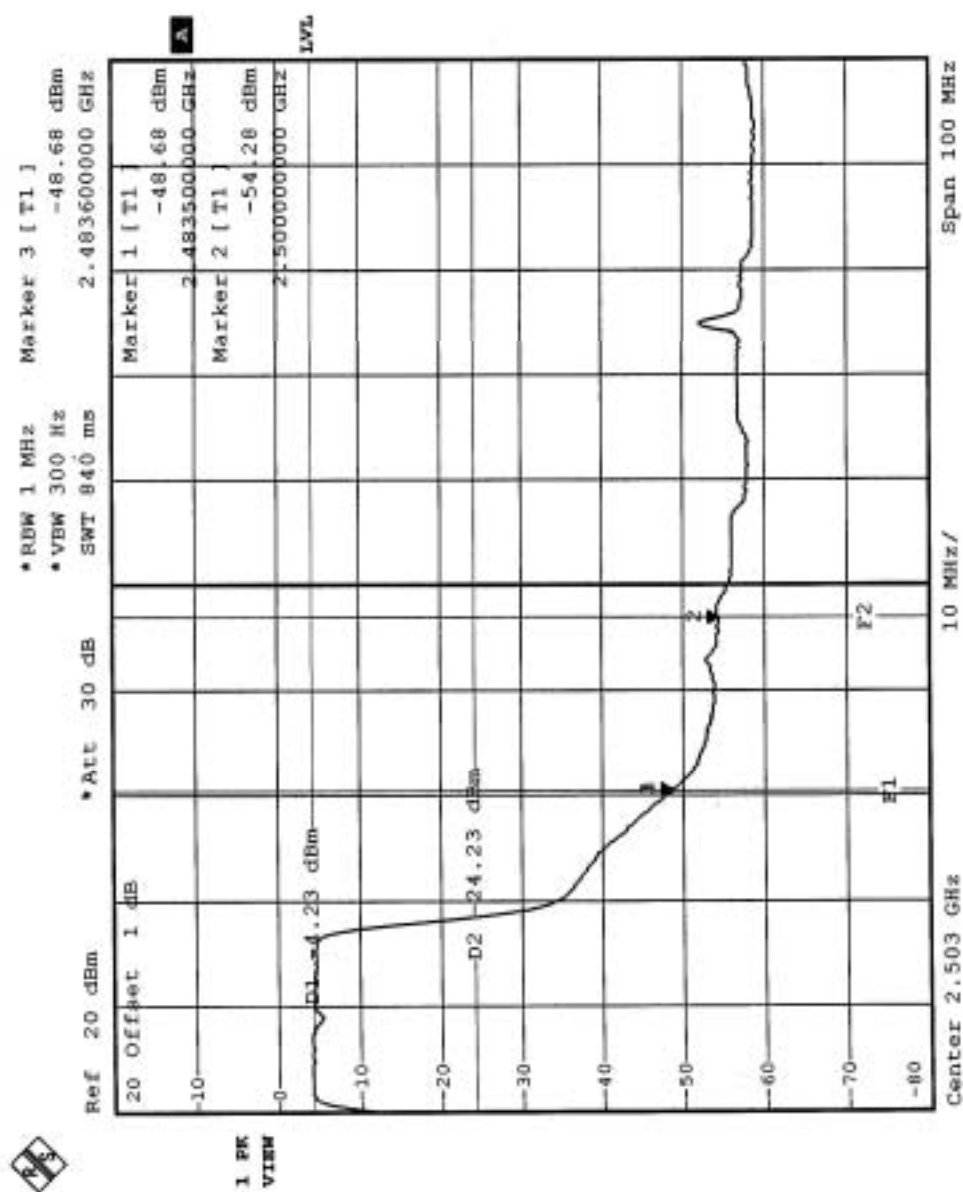
4.6.7 TEST RESULTS (B)

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

NOTE (1): The band edge emission plot on the following first page shows 43.23dB delta between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2 is 93.8dBuV/m, so the maximum field strength in restrict band is $93.8 - 43.23 = 50.57$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 44.45 dB delta between carrier maximum power and local maximum emission in restrict band (2.4836GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2 is 94.1dBuV/m, so the maximum field strength in restrict band is $94.1 - 44.45 = 49.65$ dBuV/m which is under 54 dBuV/m limit.







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 Dual-Band Omni-Directional Antenna with HRS U.FL-LP-066 connector. The maximum Gain of the antenna is 1.5dBi.

5. TEST TYPES AND RESULTS (FOR PART 802.11a)

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	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.

5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	847124/029	Nov. 17, 2003
ROHDE & SCHWARZ LISN (for EUT)	ESHS-Z5	848773/004	Nov. 13, 2003
KYORITSU LISN (for peripheral)	KNW-407	8/1395/12	Jul. 23, 2004
RF Cable (JETBAO)	RG233/U	Cable_CA_01	Jul. 03, 2004
Terminator(for KYORITSU)	50	3	Apr. 11, 2004
Software	Cond-V2e	NA	NA

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in ADT Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.



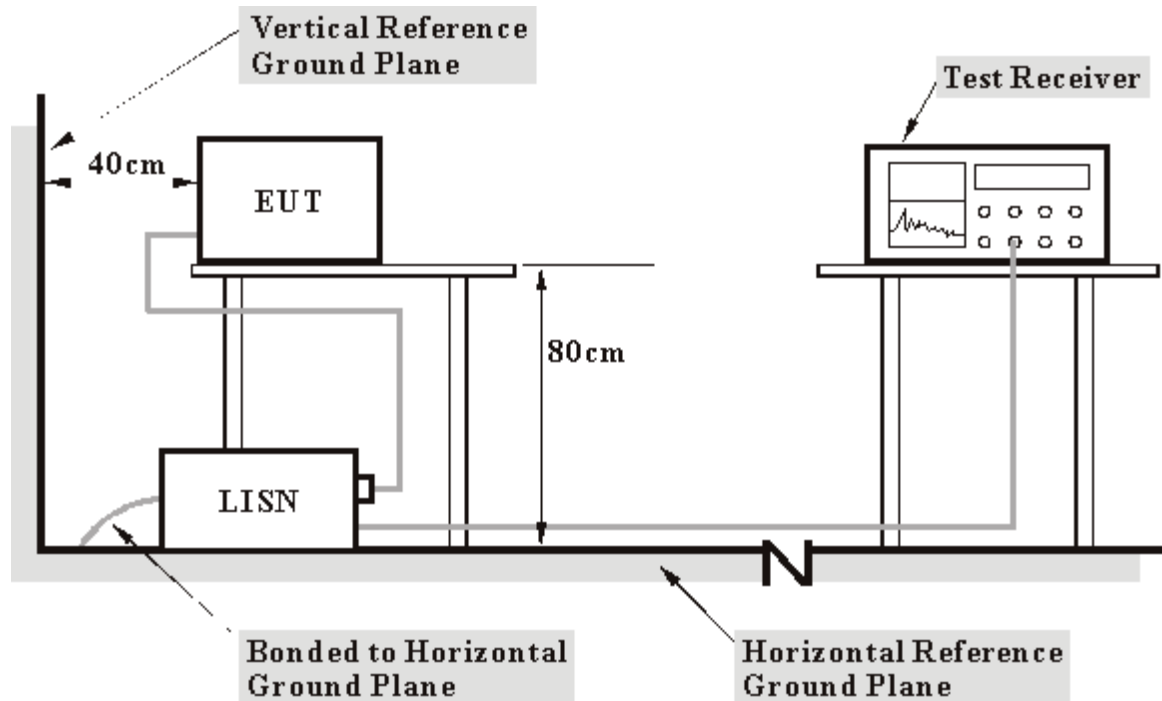
5.1.3 TEST PROCEDURES

- 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

5.1.4 DEVIATION FROM TEST STANDARD

No deviation

5.1.5 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.

5.1.6 EUT OPERATING CONDITIONS

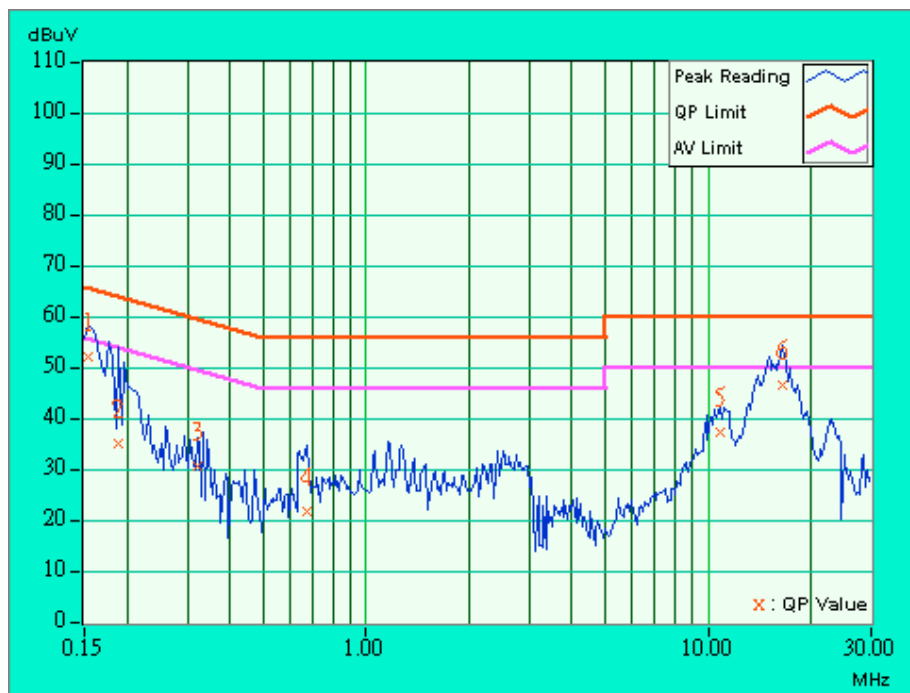
Same as 4.1.6.

5.1.7 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a, With Adapter		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.20	51.05	-	51.25	-	65.79	55.79	-14.54	-
2	0.189	0.20	34.06	-	34.26	-	64.08	54.08	-29.82	-
3	0.322	0.20	29.45	-	29.65	-	59.66	49.66	-30.01	-
4	0.670	0.24	20.65	-	20.89	-	56.00	46.00	-35.11	-
5	10.809	0.85	36.25	-	37.10	-	60.00	50.00	-22.90	-
6	16.426	1.13	45.60	-	46.73	-	60.00	50.00	-13.27	-

- NOTES: (1) "-": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a, With Adapter		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	51.92	-	52.12	-	65.58	55.58	-13.46	-
2	0.201	0.20	42.39	-	42.59	-	63.58	53.58	-20.99	-
3	0.670	0.24	21.37	-	21.61	-	56.00	46.00	-34.39	-
4	1.170	0.30	33.58	-	33.88	-	56.00	46.00	-22.12	-
5	10.832	0.73	36.61	-	37.34	-	60.00	50.00	-22.66	-
6	16.234	0.90	45.66	-	46.56	-	60.00	50.00	-13.44	-

NOTES: (1) "-": Undetectable

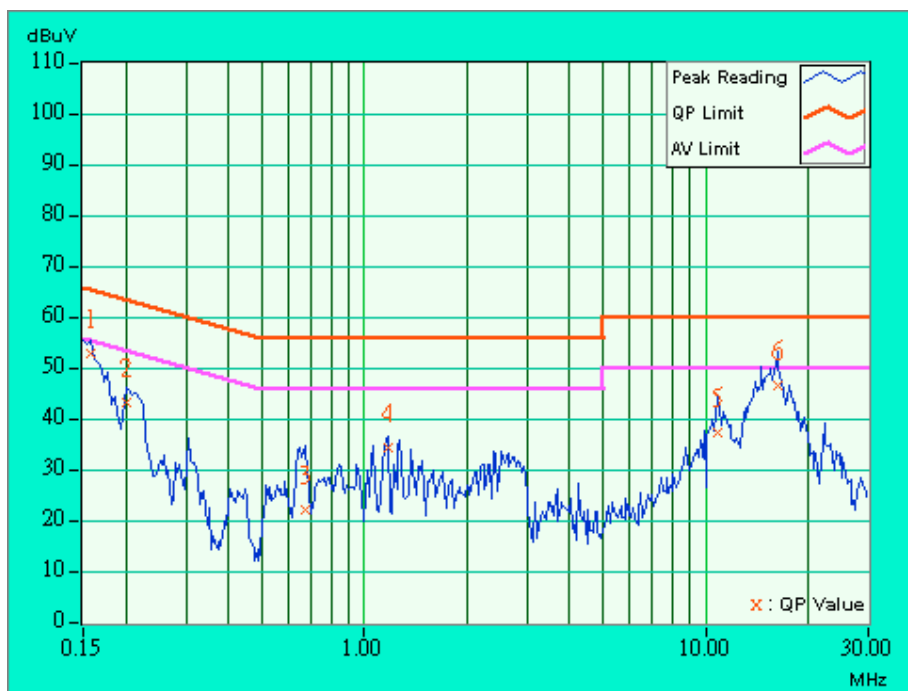
(2) Q.P. and AV. are abbreviations of quasi-peak and average.

(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.

(4) The emission levels of other frequencies were very low against the limit.

(5) Correction Factor = Insertion loss + Cable loss

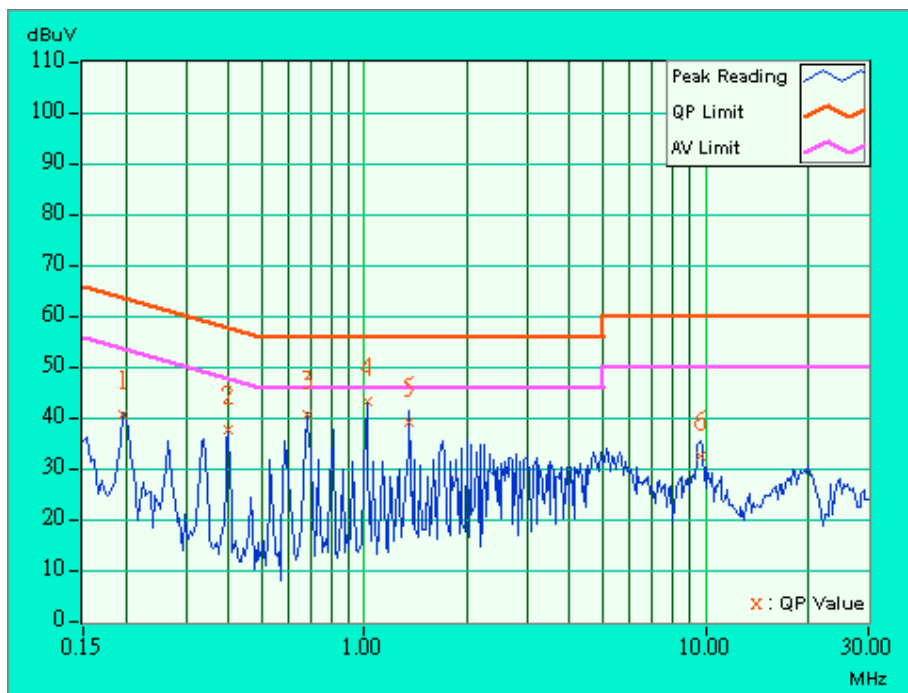
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a, With POE		

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor (dB)	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.20	39.93	-	40.13	-	63.74	53.74	-23.61	-
2	0.400	0.20	36.84	-	37.04	-	57.85	47.85	-20.81	-
3	0.677	0.25	40.03	-	40.28	-	56.00	46.00	-15.72	-
4	1.017	0.30	42.40	-	42.70	-	56.00	46.00	-13.30	-
5	1.353	0.30	38.48	-	38.78	-	56.00	46.00	-17.22	-
6	9.695	0.78	31.63	-	32.41	-	60.00	50.00	-27.59	-

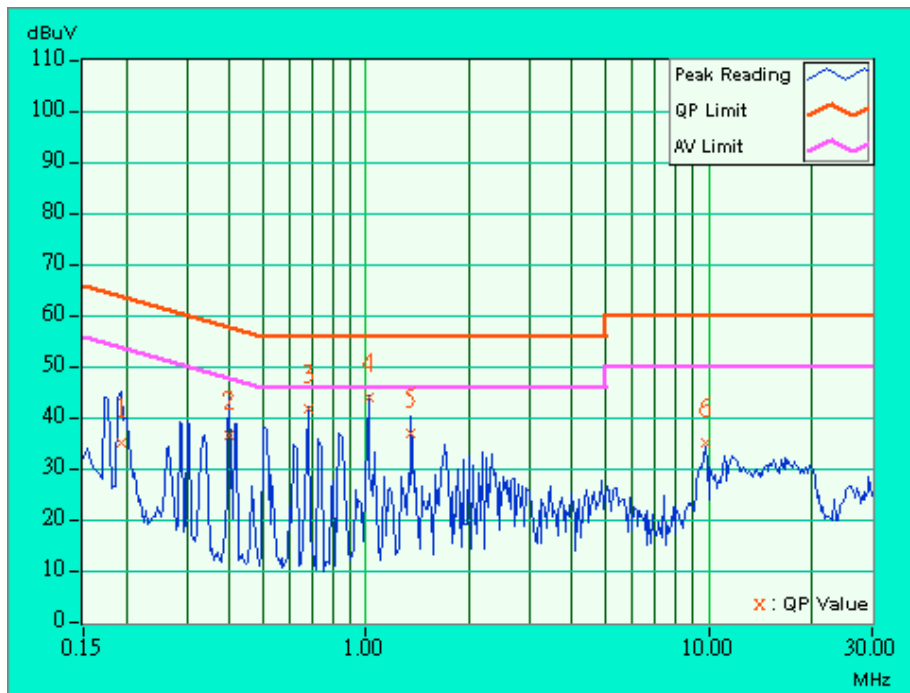
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a, With POE		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.20	34.48	-	34.68	-	63.91	53.91	-29.23	-
2	0.400	0.20	35.95	-	36.15	-	57.85	47.85	-21.70	-
3	0.677	0.25	40.99	-	41.24	-	56.00	46.00	-14.76	-
4	1.017	0.30	43.22	-	43.52	-	56.00	46.00	-12.48	-
5	1.357	0.30	36.24	-	36.54	-	56.00	46.00	-19.46	-
6	9.837	0.69	34.36	-	35.05	-	60.00	50.00	-24.95	-

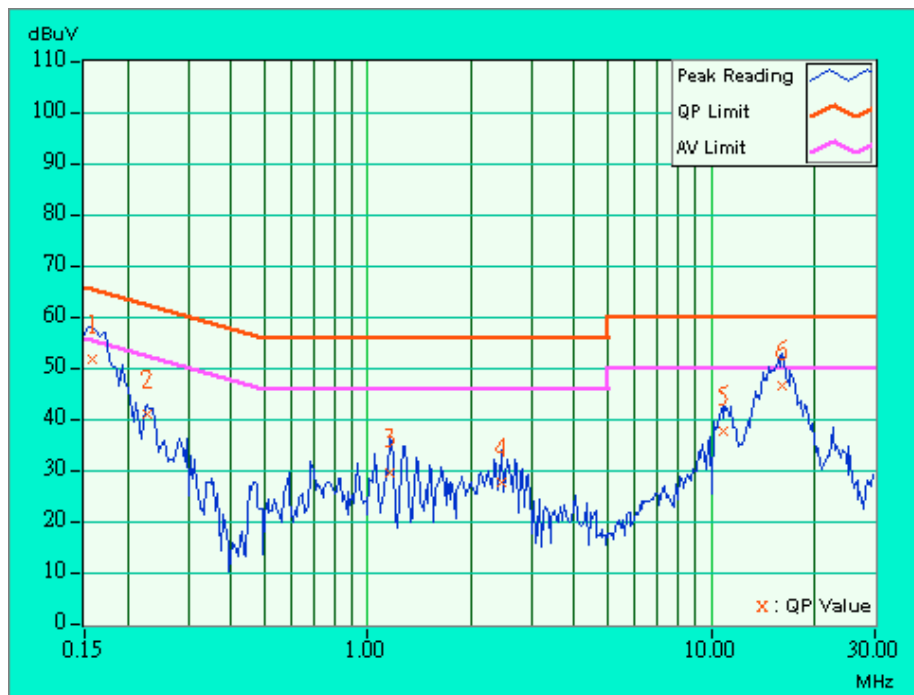
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a and draft 802.11g, With Adapter		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	50.55	-	50.75	-	65.58	55.58	-14.83	-
2	0.228	0.20	40.16	-	40.36	-	62.52	52.52	-22.16	-
3	1.162	0.30	28.43	-	28.73	-	56.00	46.00	-27.27	-
4	2.459	0.32	26.65	-	26.97	-	56.00	46.00	-29.03	-
5	10.789	0.85	36.61	-	37.46	-	60.00	50.00	-22.54	-
6	16.160	1.12	45.58	-	46.70	-	60.00	50.00	-13.30	-

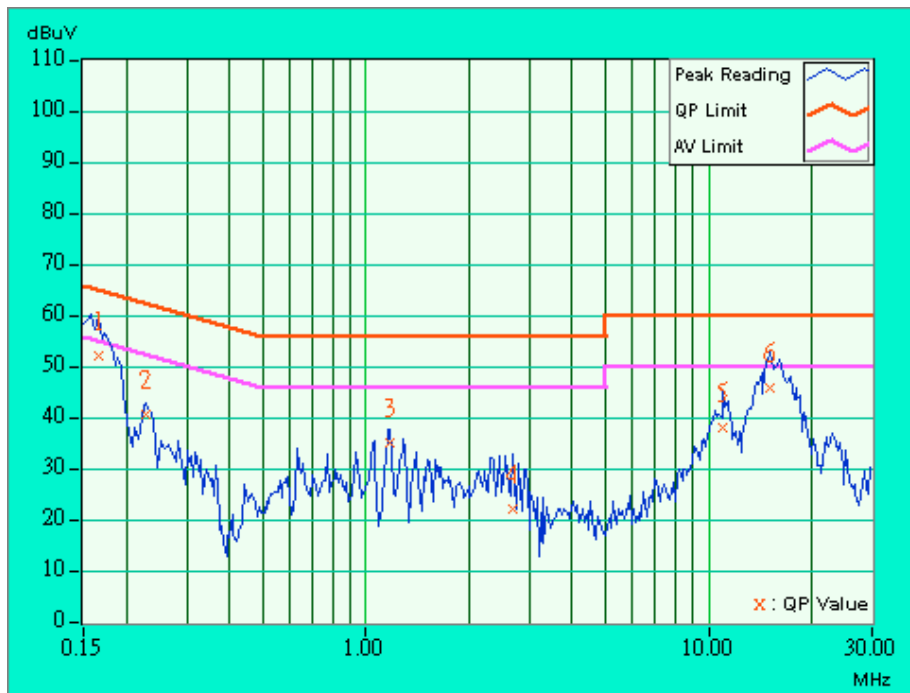
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a and draft 802.11g, With Adapter		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.20	51.19	-	51.39	-	65.18	55.18	-13.79	-
2	0.228	0.20	39.95	-	40.15	-	62.52	52.52	-22.37	-
3	1.170	0.30	34.18	-	34.48	-	56.00	46.00	-21.52	-
4	2.673	0.33	21.44	-	21.77	-	56.00	46.00	-34.23	-
5	11.023	0.74	37.38	-	38.12	-	60.00	50.00	-21.88	-
6	15.121	0.90	45.20	-	46.10	-	60.00	50.00	-13.90	-

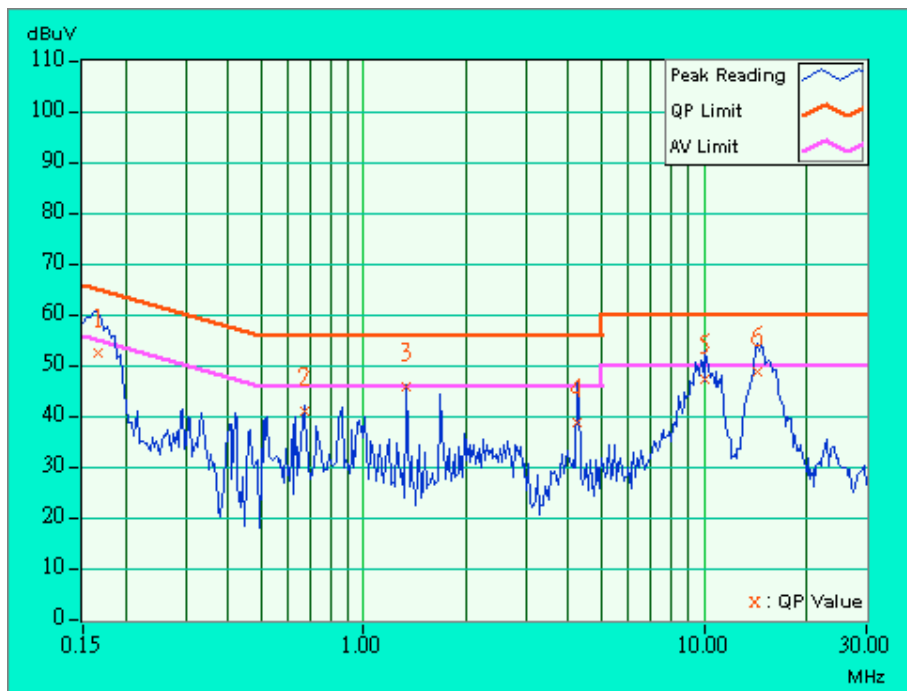
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a and draft 802.11g, With POE		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.20	51.63	-	51.83	-	65.18	55.18	-13.35	-
2	0.670	0.24	39.91	-	40.15	-	56.00	46.00	-15.85	-
3	1.338	0.30	44.92	-	45.22	-	56.00	46.00	-10.78	-
4	4.258	0.42	37.91	-	38.33	-	56.00	46.00	-17.67	-
5	10.016	0.80	46.29	-	47.09	-	60.00	50.00	-12.91	-
6	14.379	1.06	47.67	-	48.73	-	60.00	50.00	-11.27	-

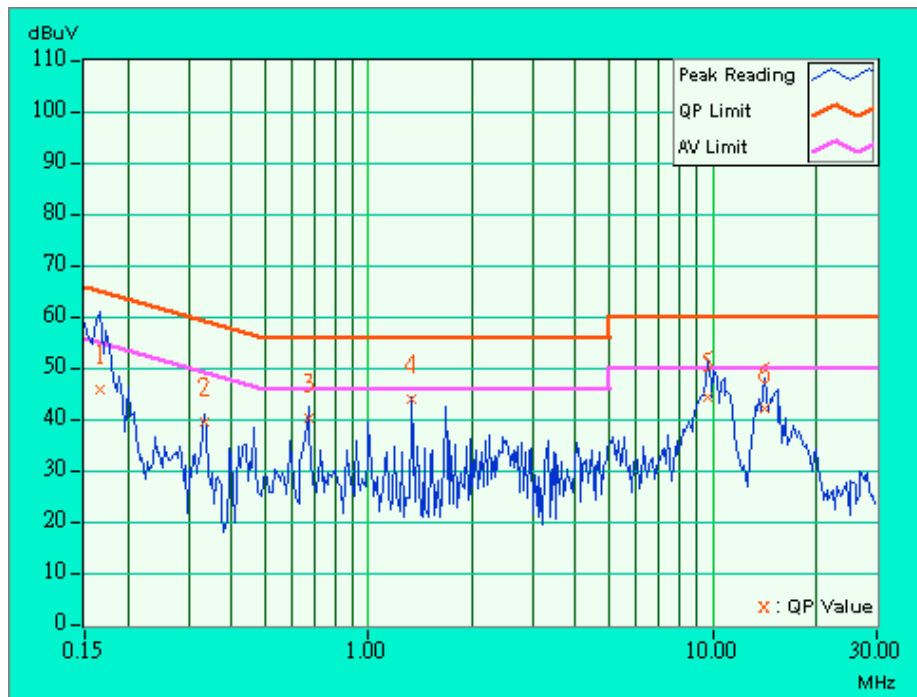
- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



EUT	Wireless Dual Band Enterprise Access Point		
MODEL	RBT3K-AG	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 69RH, 976 hPa	TESTED BY	Larry Peng
TEST MODE	802.11a and draft 802.11g, With POE		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.20	45.02	-	45.22	-	65.18	55.18	-19.96	-
2	0.334	0.20	38.66	-	38.86	-	59.36	49.36	-20.50	-
3	0.670	0.24	39.47	-	39.71	-	56.00	46.00	-16.29	-
4	1.338	0.30	43.26	-	43.56	-	56.00	46.00	-12.44	-
5	9.625	0.68	43.67	-	44.35	-	60.00	50.00	-15.65	-
6	14.262	0.87	41.42	-	42.29	-	60.00	50.00	-17.71	-

- NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction Factor = Insertion loss + Cable loss
(6) Margin value = Emission level - Limit value



5.2 RADIATED EMISSION MEASUREMENT

5.2.1 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.



5.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$



5.2.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594ER	3829U04676	Jul. 14, 2004
ADVANTEST Spectrum Analyzer	R3271A	85060311	May 21, 2004
CHASE RF Pre_Amplifier	CPA9232	1057	Apr. 24, 2004
HP Pre_Amplifier	8449B	3008A01281	June 27, 2004
ROHDE & SCHWARZ Test Receiver	ESVS 10	849231 /019	Nov. 03, 2003
CHASE Broadband Antenna	CBL6111c	2730	Jul 17, 2004
Schwarzbeck Horn_Antenna	3115	5619	Jul. 17, 2004
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170192	Feb. 16, 2005
SCHWARZBECK Tunable Dipole Antenna	UHAP	897	Mar. 07, 2005
SCHWARZBECK Tunable Dipole Antenna	VHAP	880	Mar. 07, 2005
RF Switches (ARNITSU)	CS-201	1565157	Dec. 01, 2003
RF CABLE (Chaintek) 1GHz-20GHz	SF102	22054-2	Feb. 10, 2004
RF Cable(RICHTEC)	9913-30M	STCCAB-30M- 1GHz-021	Nov. 5, 2003
Software	AS60P8	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) 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. C.
5. The FCC Site Registration No. is 656396.
6. The VCCI Site Registration No. is R-1626.
7. The CANADA Site Registration No. is IC 3789-C.



5.2.4 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 10dB 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

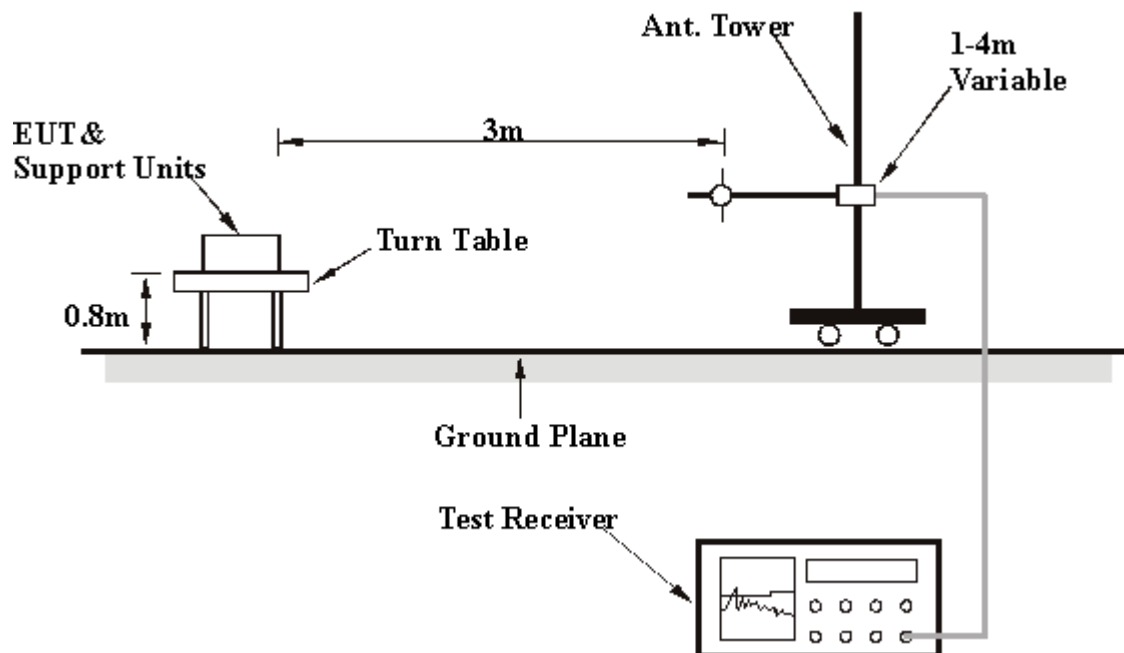
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection 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.

5.2.5 DEVIATION FROM TEST STANDARD

No deviation

5.2.6 TEST SETUP



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

5.2.7 EUT OPERATING CONDITIONS

Same as 4.1.6.

5.2.8 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	29 deg. C, 56%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	With Adapter	TESTED BY	Eic 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)	Correction Factor (dB/m)
1	45.50	26.1 QP	40.00	-13.90	1.25 H	331	15.20	11.00
2	125.13	28.8 QP	43.50	-14.70	1.15 H	337	16.70	12.00
3	220.34	22.7 QP	46.00	-23.30	1.52 H	324	13.20	9.40
4	250.01	30.0 QP	46.00	-16.00	1.44 H	341	17.00	13.00
5	264.19	30.8 QP	46.00	-15.20	1.48 H	241	16.70	14.00
6	351.55	36.5 QP	46.00	-9.50	1.17 H	29	21.00	15.50
7	375.20	30.2 QP	46.00	-15.80	1.28 H	0	14.00	16.20
8	395.68	36.3 QP	46.00	-9.70	1.00 H	212	19.40	16.90
9	479.54	30.3 QP	46.00	-15.70	1.22 H	13	11.50	18.90
10	499.91	32.5 QP	46.00	-13.50	1.06 H	114	13.20	19.30
11	527.53	42.0 QP	46.00	-4.00	2.00 H	194	22.40	19.60
12	625.23	32.2 QP	46.00	-13.80	1.34 H	56	10.50	21.70

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)	Correction Factor (dB/m)
1	43.25	28.2 QP	40.00	-11.80	1.47 V	322	16.10	12.10
2	60.58	30.7 QP	40.00	-9.30	1.41 V	196	25.50	5.20
3	70.25	24.0 QP	40.00	-16.00	1.16 V	7	18.10	5.90
4	125.02	32.1 QP	43.50	-11.40	1.19 V	93	20.10	12.00
5	220.04	29.9 QP	46.00	-16.10	1.26 V	64	20.50	9.40
6	250.29	27.9 QP	46.00	-18.10	1.35 V	25	14.80	13.00
7	352.33	29.9 QP	46.00	-16.10	1.23 V	50	14.40	15.50
8	375.01	29.0 QP	46.00	-17.00	1.39 V	114	12.80	16.20
9	395.56	33.3 QP	46.00	-12.70	1.09 V	93	16.30	16.90
10	499.62	35.2 QP	46.00	-10.80	1.02 V	244	15.90	19.30
11	528.34	40.3 QP	46.00	-5.70	1.00 V	56	20.70	19.60

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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



EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	29 deg. C, 56%RH, 976 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TEST MODE	With POE	TESTED BY	Eic 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)	Correction Factor (dB/m)
1	50.69	27.5 QP	40.00	-12.50	1.96 H	58	19.40	8.20
2	68.29	24.0 QP	40.00	-16.00	1.08 H	57	18.30	5.70
3	124.59	27.6 QP	43.50	-15.90	1.52 H	309	15.60	12.00
4	220.00	29.4 QP	46.00	-16.60	1.48 H	54	20.00	9.40
5	220.11	26.3 QP	46.00	-19.70	1.77 H	47	16.90	9.40
6	250.03	28.0 QP	46.00	-18.00	1.88 H	5	15.00	13.00
7	352.01	29.8 QP	46.00	-16.20	1.88 H	5	14.30	15.50
8	374.98	31.9 QP	46.00	-14.10	1.14 H	147	15.70	16.20
9	500.12	34.3 QP	46.00	-11.70	1.18 H	160	15.00	19.30
10	527.68	37.2 QP	46.00	-8.80	1.58 H	98	17.60	19.60

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)	Correction Factor (dB/m)
1	51.02	31.3 QP	40.00	-8.70	1.58 V	54	23.20	8.00
2	55.89	30.1 QP	40.00	-9.90	1.08 V	68	23.70	6.40
3	69.03	36.7 QP	40.00	-3.30	1.68 V	199	30.90	5.80
4	72.00	31.5 QP	40.00	-8.50	1.02 V	96	25.20	6.30
5	124.97	27.3 QP	43.50	-16.20	1.09 V	269	15.30	12.00
6	250.00	26.2 QP	46.00	-19.80	1.47 V	54	13.20	13.00
7	264.02	29.4 QP	46.00	-16.60	1.09 V	69	15.30	14.10
8	374.36	32.1 QP	46.00	-13.90	1.78 V	7	15.90	16.20
9	396.21	32.0 QP	46.00	-14.00	1.00 V	356	15.00	17.00
10	500.02	34.3 QP	46.00	-11.70	1.38 V	68	15.00	19.30
11	527.89	40.6 QP	46.00	-5.40	1.08 V	354	21.00	19.60
12	625.32	33.3 QP	46.00	-12.70	1.58 V	55	11.60	21.70

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 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



5.2.9 TEST RESULTS

STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	1
FREQUENCY RANGE	1000MHz~25000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5088.00	54.2 PK	74.00	-19.80	1.46 H	329	17.10	37.00
1	#5088.00	46.2 AV	54.00	-7.80	1.46 H	329	9.20	37.00
2	#5120.00	55.0 PK	74.00	-19.00	1.08 H	326	18.00	37.00
2	#5120.00	46.6 AV	54.00	-7.40	1.08 H	326	9.60	37.00
3	#5150.00	54.6 PK	74.00	-19.40	1.40 H	208	17.60	37.00
3	#5150.00	44.6 AV	54.00	-9.40	1.40 H	208	7.60	37.00
4	*5180.00	95.3 PK			1.48 H	69	58.30	37.00
4	*5180.00	87.1 AV			1.48 H	69	50.10	37.00
5	#5440.00	52.1 PK	74.00	-21.90	1.37 H	151	15.10	37.00
5	#5440.00	44.9 AV	54.00	-9.10	1.37 H	151	7.90	37.00
6	10360.00	49.7 PK	68.30	-18.60	1.07 H	46	5.00	44.70

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)	Correction Factor (dB/m)
1	#5088.00	63.2 PK	74.00	-10.80	1.01 V	43	26.20	37.00
1	#5088.00	51.0 AV	54.00	-3.00	1.01 V	43	14.00	37.00
2	#5120.00	58.3 PK	74.00	-15.70	1.85 V	65	21.30	37.00
2	#5120.00	51.6 AV	54.00	-2.40	1.85 V	65	14.60	37.00
3	#5150.00	59.6 PK	74.00	-14.40	1.39 V	66	22.60	37.00
3	#5150.00	50.3 AV	54.00	-3.70	1.39 V	66	13.30	37.00
4	*5180.00	103.3 PK			1.25 V	54	66.20	37.00
4	*5180.00	95.7 AV			1.25 V	54	58.60	37.00
5	#5440.00	60.3 PK	74.00	-13.70	1.36 V	332	23.30	37.00
5	#5440.00	52.2 AV	54.00	-1.80	1.36 V	332	15.20	37.00
6	10360.00	53.9 PK	68.30	-14.40	1.35 V	222	9.20	44.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	4
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5088.00	51.0 PK	74.00	-23.00	1.21 H	5	13.90	37.00
1	#5088.00	43.0 AV	54.00	-11.00	1.21 H	5	6.00	37.00
2	#5150.00	50.6 PK	74.00	-23.40	1.30 H	65	13.50	37.00
3	*5240.00	96.4 PK			1.33 H	200	59.40	37.00
3	*5240.00	87.9 AV			1.33 H	200	50.90	37.00
4	#5440.00	53.3 PK	74.00	-20.70	1.05 H	22	16.20	37.00
4	#5440.00	45.1 AV	54.00	-8.90	1.05 H	22	8.10	37.00
5	10480.00	49.9 PK	68.30	-18.40	1.35 H	69	4.90	45.00

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)	Correction Factor (dB/m)
1	#5088.00	57.2 PK	74.00	-16.80	1.07 V	57	20.10	37.00
1	#5088.00	47.7 AV	54.00	-6.30	1.07 V	57	10.60	37.00
2	#5150.00	55.2 PK	74.00	-18.80	1.36 V	307	18.20	37.00
2	#5150.00	47.3 AV	54.00	-6.70	1.36 V	307	10.20	37.00
3	*5240.00	102.9 PK			1.35 V	68	65.90	37.00
3	*5240.00	96.0 AV			1.35 V	68	59.00	37.00
4	#5440.00	57.6 PK	74.00	-16.40	1.32 V	256	20.60	37.00
4	#5440.00	49.4 AV	54.00	-4.60	1.32 V	256	12.40	37.00
5	10480.00	54.6 PK	68.30	-13.70	1.20 V	249	9.70	45.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5056.00	44.60 PK	74.00	-29.40	1.52 H	32	7.60	37.00
2	#5120.00	51.20 PK	74.00	-22.80	1.21 H	54	14.20	37.00
2	#5120.00	44.70 AV	54.00	-9.30	1.21 H	54	7.60	37.00
3	*5260.00	102.00 PK			1.36 H	241	65.00	37.00
3	*5260.00	92.70 AV			1.36 H	241	55.60	37.00
4	#5376.00	52.00 PK	74.00	-22.00	1.11 H	2	15.00	37.00
4	#5376.00	45.70 AV	54.00	-8.30	1.11 H	2	8.70	37.00
5	#5440.00	51.00 PK	74.00	-23.00	1.45 H	21	14.00	37.00
5	#5440.00	45.70 AV	54.00	-8.30	1.45 H	21	8.60	37.00
6	10520.00	49.00 PK	68.30	-19.30	1.02 H	241	3.80	45.20

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)	Correction Factor (dB/m)
1	#5056.00	52.90 PK	74.00	-21.10	1.17 V	111	15.80	37.00
1	#5056.00	48.90 AV	54.00	-5.10	1.17 V	111	11.80	37.00
2	#5120.00	58.70 PK	74.00	-15.30	1.19 V	12	21.60	37.00
2	#5120.00	52.20 AV	54.00	-1.80	1.19 V	12	15.20	37.00
3	*5260.00	108.20 PK			1.09 V	359	71.20	37.00
3	*5260.00	99.90 AV			1.09 V	359	62.90	37.00
4	#5376.00	59.10 PK	74.00	-14.90	1.18 V	99	22.10	37.00
4	#5376.00	53.00 AV	54.00	-1.00	1.18 V	99	16.00	37.00
5	#5440.00	59.10 PK	74.00	-14.90	1.15 V	122	22.00	37.00
5	#5440.00	52.80 AV	54.00	-1.20	1.15 V	122	15.80	37.00
6	10520.00	53.80 PK	68.30	-14.50	1.19 V	160	8.60	45.20

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	50.7 PK	74.00	-23.30	1.76 H	64	13.70	37.00
2	*5320.00	95.1 PK			1.06 H	326	58.10	37.00
2	*5320.00	88.0 AV			1.06 H	326	51.00	37.00
3	#5350.00	51.5 PK	74.00	-22.50	1.07 H	168	14.50	37.00
3	#5350.00	45.9 AV	54.00	-8.10	1.07 H	168	8.90	37.00
4	#5408.00	53.7 PK	74.00	-20.30	1.53 H	354	16.70	37.00
4	#5408.00	48.0 AV	54.00	-6.00	1.53 H	354	11.00	37.00
5	#10640.00	53.9 PK	74.00	-20.10	1.36 H	199	7.60	46.30
5	#10640.00	43.2 AV	54.00	-10.80	1.36 H	199	-3.10	37.00

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)	Correction Factor (dB/m)
1	#5120.00	55.3 PK	74.00	-18.70	1.33 V	201	18.30	37.00
1	#5120.00	46.1 AV	54.00	-7.90	1.33 V	201	9.10	37.00
2	*5320.00	102.3 PK			1.05 V	326	65.30	37.00
2	*5320.00	94.0 AV			1.05 V	326	57.00	37.00
3	#5350.00	60.8 PK	74.00	-13.20	1.09 V	357	23.80	37.00
3	#5350.00	51.9 AV	54.00	-2.10	1.09 V	357	14.90	37.00
4	#5408.00	62.4 PK	74.00	-11.60	1.58 V	52	25.40	37.00
4	#5408.00	53.0 AV	54.00	-1.00	1.58 V	52	16.00	37.00
5	#10640.00	58.1 PK	74.00	-15.90	1.22 V	5	11.90	46.30
5	#10640.00	46.4 AV	54.00	-7.60	1.22 V	5	0.10	46.30

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.247

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 67%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	48.70 PK	74.00	-25.30	1.36 H	65	11.70	37.00
2	#5408.00	51.00 PK	74.00	-23.00	1.04 H	78	13.90	37.00
2	#5408.00	43.10 AV	54.00	-10.90	1.04 H	78	6.10	37.00
3	#5440.00	54.40 PK	74.00	-19.60	1.36 H	65	17.30	37.00
3	#5440.00	46.50 AV	54.00	-7.50	1.36 H	65	9.50	37.00
4	*5745.00	102.80 PK			1.05 H	65	65.20	37.60
4	*5745.00	94.50 AV			1.05 H	65	57.00	37.60
5	#11490.00	51.60 PK	74.00	-22.40	1.63 H	98	0.30	51.30
5	#11490.00	43.80 AV	54.00	-10.20	1.63 H	98	-7.50	51.30

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)	Correction Factor (dB/m)
1	#5120.00	54.20 PK	74.00	-19.80	1.02 V	312	17.20	37.00
1	#5120.00	48.80 AV	54.00	-5.20	1.02 V	312	11.70	37.00
2	#5408.00	58.90 PK	74.00	-15.10	1.02 V	11	21.90	37.00
2	#5408.00	50.80 AV	54.00	-3.20	1.02 V	11	13.80	37.00
3	#5440.00	61.70 PK	74.00	-12.30	1.02 V	50	24.70	37.00
3	#5440.00	52.70 AV	54.00	-1.30	1.02 V	50	15.70	37.00
4	*5745.00	109.70 PK			1.06 V	241	72.10	37.60
4	*5745.00	101.70 AV			1.06 V	241	64.10	37.60
5	#11490.00	54.90 PK	74.00	-19.10	1.55 V	24	3.50	51.30
5	#11490.00	46.90 AV	54.00	-7.10	1.55 V	24	-4.40	51.30

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*”: Fundamental frequency
6. “# “ : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.247

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 67%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	49.60 PK	74.00	-24.40	1.01 H	25	12.60	37.00
2	#5376.00	50.60 PK	74.00	-23.40	1.55 H	62	13.50	37.00
3	#5440.00	53.90 PK	74.00	-20.10	1.00 H	1	16.90	37.00
3	#5440.00	45.90 AV	54.00	-8.10	1.00 H	1	8.90	37.00
4	*5785.00	94.50 PK			1.63 H	326	56.90	37.60
4	*5785.00	94.80 AV			1.63 H	326	57.20	37.60
5	#11570.00	50.70 PK	74.00	-23.30	1.22 H	63	-0.40	51.10

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)	Correction Factor (dB/m)
1	#5120.00	55.60 PK	74.00	-18.40	1.02 V	33	18.50	37.00
1	#5120.00	48.70 AV	54.00	-5.30	1.02 V	33	11.60	37.00
2	#5376.00	57.90 PK	74.00	-16.10	1.20 V	89	20.90	37.00
2	#5376.00	50.10 AV	54.00	-3.90	1.20 V	89	13.10	37.00
3	#5440.00	58.70 PK	74.00	-15.30	1.45 V	41	21.70	37.00
3	#5440.00	51.30 AV	54.00	-2.70	1.45 V	41	14.30	37.00
4	*5785.00	109.70 PK			1.52 V	24	72.10	37.60
4	*5785.00	101.80 AV			1.52 V	24	64.20	37.60
5	#11570.00	55.30 PK	74.00	-18.70	1.56 V	326	4.20	51.10
5	#11570.00	46.60 AV	54.00	-7.40	1.56 V	326	-4.50	51.10

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*": Fundamental frequency
6. "#": The radiated frequency falling in the restricted band.



STANDARD SECTION 15.247

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 67%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	49.20 PK	74.00	-24.80	1.25 H	45	12.20	37.00
2	#5376.00	52.60 PK	74.00	-21.40	1.65 H	45	15.60	37.00
2	#5376.00	44.00 AV	54.00	-10.00	1.65 H	45	7.00	37.00
3	#5440.00	51.00 PK	74.00	-23.00	1.02 H	123	14.00	37.00
3	#5440.00	43.90 AV	54.00	-10.10	1.02 H	123	6.90	37.00
4	*5825.00	101.90 PK			1.22 H	36	64.20	37.70
4	*5825.00	95.70 AV			1.22 H	36	58.00	37.70
5	#11650.00	51.10 PK	74.00	-22.90	1.86 H	32	0.20	50.80
5	#11650.00	44.00 AV	54.00	-10.00	1.86 H	32	-6.90	50.80

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)	Correction Factor (dB/m)
1	#5120.00	53.70 PK	74.00	-20.30	1.25 V	41	16.60	37.00
1	#5120.00	46.80 AV	54.00	-7.20	1.25 V	41	9.70	37.00
2	#5376.00	56.20 PK	74.00	-17.80	1.19 V	217	19.10	37.00
2	#5376.00	49.10 AV	54.00	-4.90	1.19 V	217	12.10	37.00
3	#5440.00	57.40 PK	74.00	-16.60	1.56 V	226	20.30	37.00
3	#5440.00	50.00 AV	54.00	-4.00	1.56 V	226	12.90	37.00
4	*5825.00	111.40 PK			1.06 V	98	73.70	37.70
4	*5825.00	102.40 AV			1.06 V	98	64.60	37.70
5	#11650.00	56.10 PK	74.00	-17.90	1.75 V	41	5.30	50.80
5	#11650.00	47.20 AV	54.00	-6.80	1.75 V	41	-3.60	50.80

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*”: Fundamental frequency
6. “#”: The radiated frequency falling in the restricted band.



STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5088.00	54.6 PK	74.00	-19.40	1.09 H	8	17.60	37.00
1	#5088.00	48.2 AV	54.00	-5.80	1.09 H	8	11.20	37.00
2	#5150.00	51.9 PK	74.00	-22.10	1.06 H	113	14.90	37.00
2	#5150.00	44.6 AV	54.00	-9.40	1.06 H	113	7.60	37.00
3	*5210.00	93.7 PK			1.45 H	24	56.70	37.00
3	*5210.00	86.7 AV			1.45 H	24	49.70	37.00
4	#5440.00	49.4 PK	74.00	-24.60	1.25 H	236	12.40	37.00
5	10420.00	47.3 PK	68.30	-21.00	1.07 H	254	2.50	44.80

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)	Correction Factor (dB/m)
1	#5088.00	58.4 PK	74.00	-15.60	1.58 V	9	21.30	37.00
1	#5088.00	49.6 AV	54.00	-4.40	1.58 V	9	12.60	37.00
2	#5150.00	56.9 PK	74.00	-17.10	1.08 V	57	19.90	37.00
2	#5150.00	49.2 AV	54.00	-4.80	1.08 V	57	12.20	37.00
3	*5210.00	99.2 PK			1.54 V	24	62.20	37.00
3	*5210.00	92.2 AV			1.54 V	24	55.20	37.00
4	#5440.00	59.4 PK	74.00	-14.60	1.03 V	31	22.30	37.00
4	#5440.00	50.4 AV	54.00	-3.60	1.03 V	31	13.30	37.00
5	10420.00	51.4 PK	68.30	-16.90	1.54 V	212	6.50	44.80

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	52.2 PK	74.00	-21.80	1.30 H	269	15.10	37.00
1	#5120.00	44.6 AV	54.00	-9.40	1.30 H	269	7.60	37.00
2	*5250.00	95.3 PK			1.41 H	29	58.30	37.00
2	*5250.00	87.1 AV			1.41 H	29	50.10	37.00
3	#5408.00	50.8 PK	74.00	-23.20	1.36 H	5	13.70	37.00
4	10500.00	50.9 PK	68.30	-17.40	1.08 H	222	5.90	45.00

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)	Correction Factor (dB/m)
1	#5120.00	51.4 PK	74.00	-22.60	1.04 V	249	14.40	37.00
1	#5120.00	46.2 AV	54.00	-7.80	1.04 V	249	9.20	37.00
2	*5250.00	100.5 PK			1.30 V	25	63.50	37.00
2	*5250.00	93.2 AV			1.30 V	25	56.20	37.00
3	#5408.00	57.2 PK	74.00	-16.80	1.06 V	329	20.20	37.00
3	#5408.00	50.4 AV	54.00	-3.60	1.06 V	329	13.40	37.00
4	10500.00	52.0 PK	68.30	-16.20	1.00 V	28	7.00	45.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.

STANDARD SECTION 15.407

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5088.00	51.0 PK	74.00	-23.00	1.30 H	61	13.90	37.00
1	#5088.00	44.6 AV	54.00	-9.40	1.30 H	61	7.50	37.00
2	*5290.00	95.1 PK			1.58 H	99	58.00	37.00
2	*5290.00	86.7 AV			1.58 H	99	49.60	37.00
3	#5350.00	51.2 PK	74.00	-22.80	1.33 H	119	14.10	37.00
3	#5350.00	41.0 AV	54.00	-13.00	1.33 H	119	4.00	37.00
4	#5408.00	50.4 PK	74.00	-23.60	1.54 H	26	13.40	37.00
5	10580.00	51.8 PK	68.30	-16.50	1.35 H	26	6.00	45.70

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)	Correction Factor (dB/m)
1	#5088.00	56.0 PK	74.00	-18.00	1.11 V	9	19.00	37.00
1	#5088.00	49.6 AV	54.00	-4.40	1.11 V	9	12.60	37.00
2	*5290.00	98.9 PK			1.00 V	0	61.90	37.00
2	*5290.00	91.2 AV			1.00 V	0	54.20	37.00
3	#5350.00	57.0 PK	74.00	-17.00	1.05 V	24	20.00	37.00
3	#5350.00	47.8 AV	54.00	-6.20	1.05 V	24	10.80	37.00
4	#5408.00	59.4 PK	74.00	-14.60	1.05 V	24	22.30	37.00
4	#5408.00	50.8 AV	54.00	-3.20	1.05 V	24	13.70	37.00
5	10580.00	55.1 PK	68.30	-13.20	1.52 V	329	9.40	45.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.247

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26 deg. C, 67%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	46.60 PK	74.00	-27.40	1.65 H	25	9.60	37.00
2	#5376.00	49.50 PK	74.00	-24.50	1.59 H	325	12.50	37.00
3	#5440.00	49.90 PK	74.00	-24.10	1.11 H	9	12.90	37.00
4	*5760.00	93.60 PK			1.63 H	30	56.00	37.60
4	*5760.00	86.50 AV			1.63 H	30	49.00	37.60
5	#11520.00	50.10 PK	74.00	-23.90	1.05 H	42	-1.20	51.30

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)	Correction Factor (dB/m)
1	#5120.00	51.90 PK	74.00	-22.10	1.02 V	41	14.80	37.00
1	#5120.00	48.40 AV	54.00	-5.60	1.02 V	41	11.30	37.00
2	#5376.00	57.30 PK	74.00	-16.70	1.42 V	36	20.20	37.00
2	#5376.00	48.10 AV	54.00	-5.90	1.42 V	36	11.10	37.00
3	#5440.00	59.00 PK	74.00	-15.00	1.56 V	62	21.90	37.00
3	#5440.00	50.00 AV	54.00	-4.00	1.56 V	62	12.90	37.00
4	*5760.00	99.70 PK			1.54 V	21	62.10	37.60
4	*5760.00	92.80 AV			1.54 V	21	55.30	37.60
5	#11520.00	54.60 PK	74.00	-19.40	1.68 V	95	3.30	51.30
5	#11520.00	46.80 AV	54.00	-7.20	1.68 V	95	-4.50	51.30

NOTE:

Emission level = Raw value - Correction Factor

Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss

(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)

Margin value = Emission level - Limit value

The other emission levels were very low against the limit.

“*” : Fundamental frequency

“#” : The radiated frequency falling in the restricted band.



STANDARD SECTION 15.247

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	1000MHz~40000MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 974 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY	Eric 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)	Correction Factor (dB/m)
1	#5120.00	47.20 PK	74.00	-26.80	1.35 H	26	10.20	37.00
2	#5376.00	51.30 PK	74.00	-22.70	1.55 H	201	14.20	37.00
2	#5376.00	42.60 AV	54.00	-11.40	1.55 H	201	5.60	37.00
3	#5440.00	51.20 PK	74.00	-22.80	1.02 H	32	14.20	37.00
3	#5440.00	42.90 AV	54.00	-11.10	1.02 H	32	5.90	37.00
4	*5800.00	91.70 PK			1.56 H	6	54.00	37.70
4	*5800.00	86.20 AV			1.56 H	6	48.60	37.70
5	#11600.00	49.80 PK	74.00	-24.20	1.63 H	6	-1.20	51.00

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)	Correction Factor (dB/m)
1	#5120.00	51.80 PK	74.00	-22.20	1.56 V	326	14.80	37.00
1	#5120.00	47.40 AV	54.00	-6.60	1.56 V	326	10.30	37.00
2	#5376.00	57.30 PK	74.00	-16.70	1.25 V	66	20.20	37.00
2	#5376.00	47.50 AV	54.00	-6.50	1.25 V	66	10.40	37.00
3	#5440.00	58.10 PK	74.00	-15.90	1.02 V	58	21.00	37.00
3	#5440.00	49.00 AV	54.00	-5.00	1.02 V	58	11.90	37.00
4	*5800.00	101.70 PK			1.45 V	24	64.00	37.70
4	*5800.00	93.90 AV			1.45 V	24	56.30	37.70
5	#11600.00	56.20 PK	74.00	-17.80	1.42 V	10	5.20	51.00
5	#11600.00	46.90 AV	54.00	-7.10	1.42 V	10	-4.10	51.00

NOTE:

Emission level = Raw value - Correction Factor

Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss

(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)

Margin value = Emission level - Limit value

The other emission levels were very low against the limit.

“*” : Fundamental frequency

“#” : The radiated frequency falling in the restricted band.

FOR FREQUENCY 5.15~5.35GHZ**5.3 PEAK TRANSMIT POWER MEASUREMENT****5.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT**

Frequency Band	Limit
5.15 – 5.25 GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35 GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825 GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

Note: Where B is the 26dB emission bandwidth in MHz.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

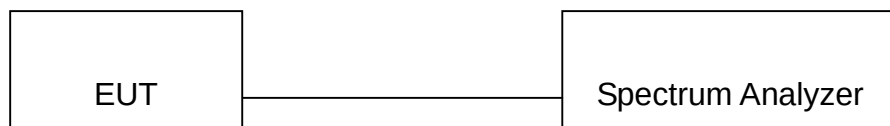
NOTE:

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

5.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

5.3.4 TEST SETUP



5.3.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



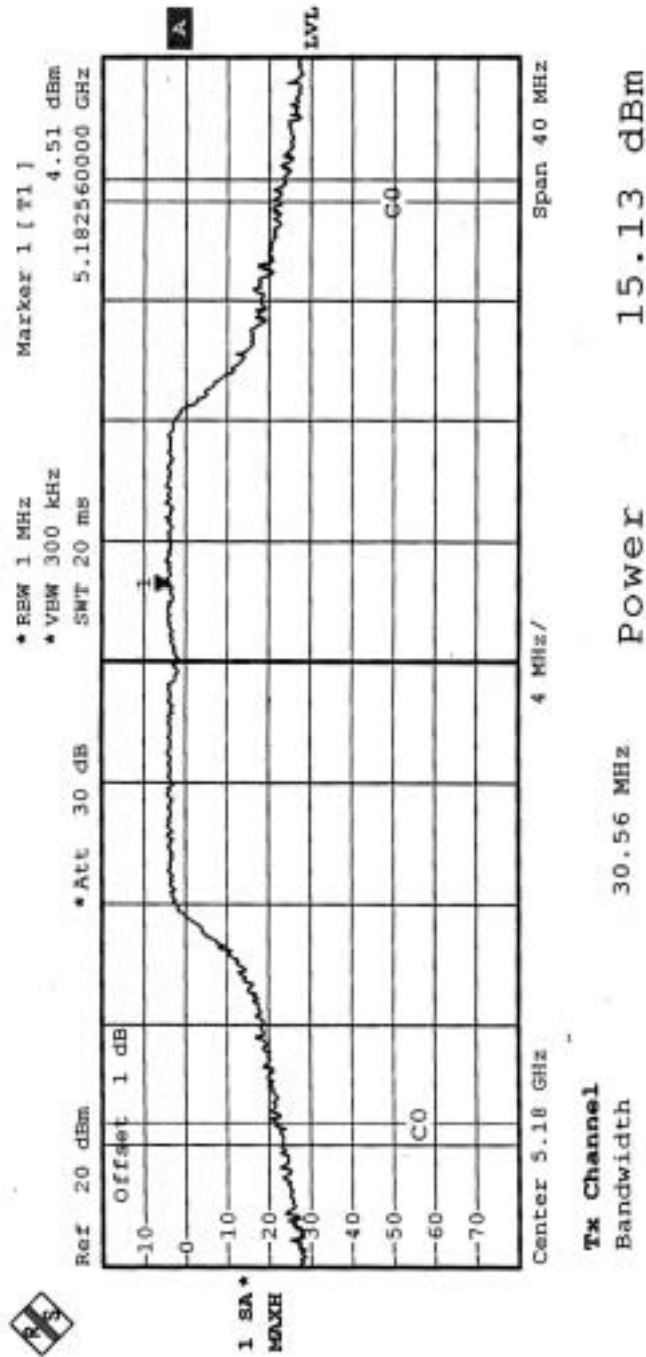
5.3.6 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 974 hPa	TESTED BY	Eric Lee

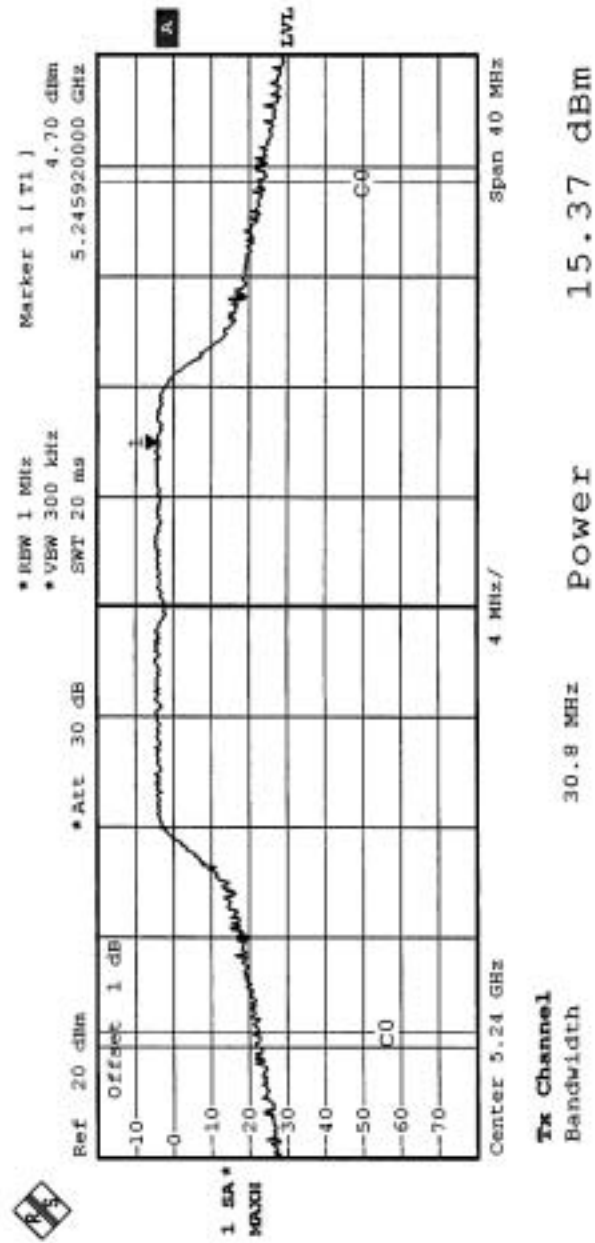
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	15.13	17.00	30.56	PASS
4	5240	15.37	17.00	30.80	PASS
5	5260	19.90	24.00	29.52	PASS
8	5320	15.14	24.00	30.32	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

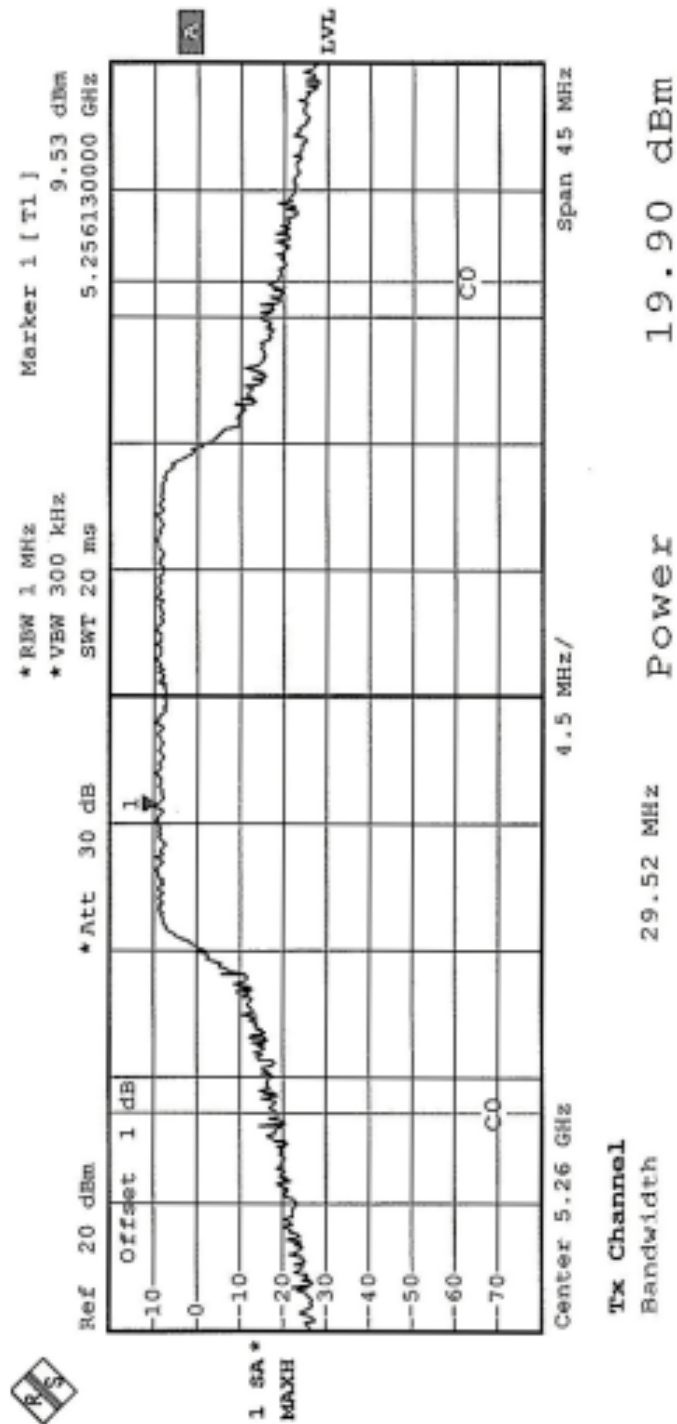
CHANNEL 1



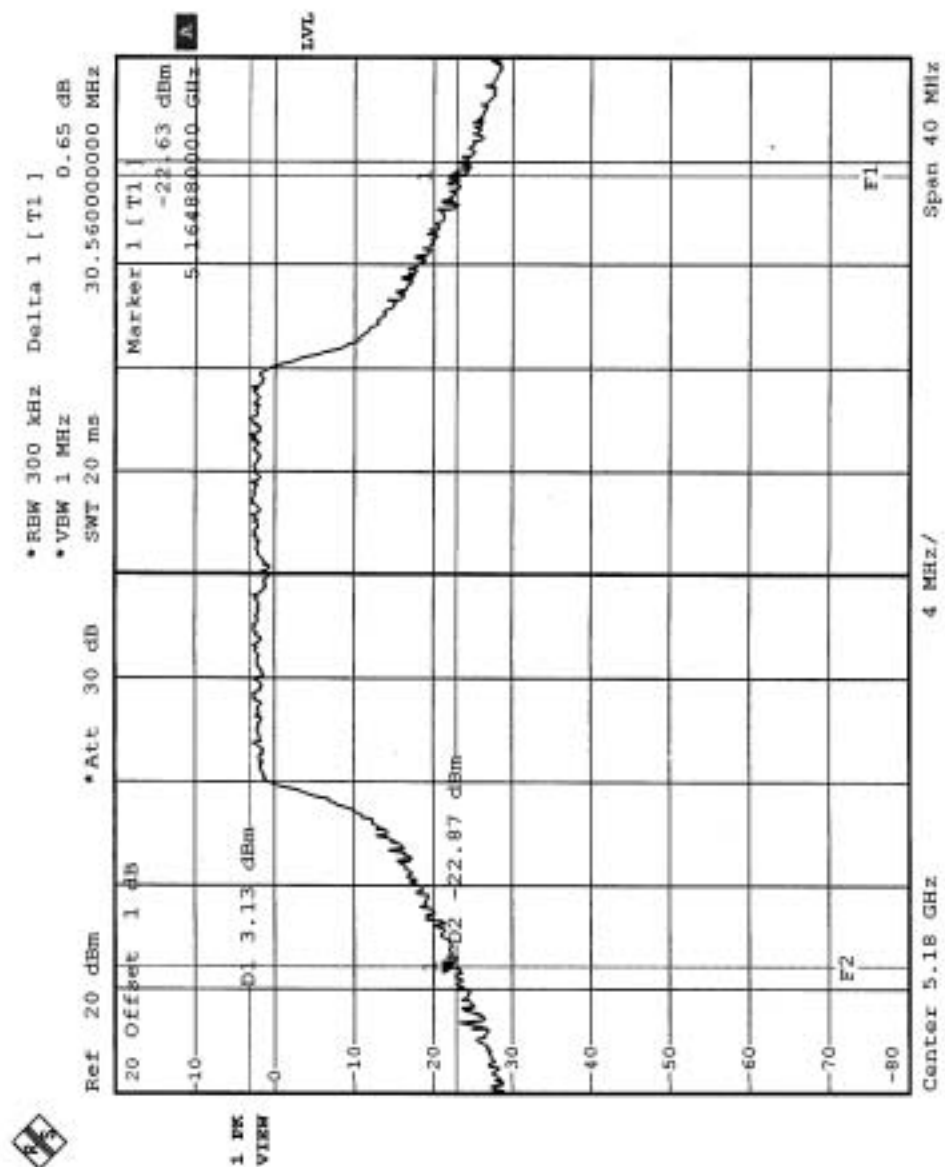
CHANNEL 4



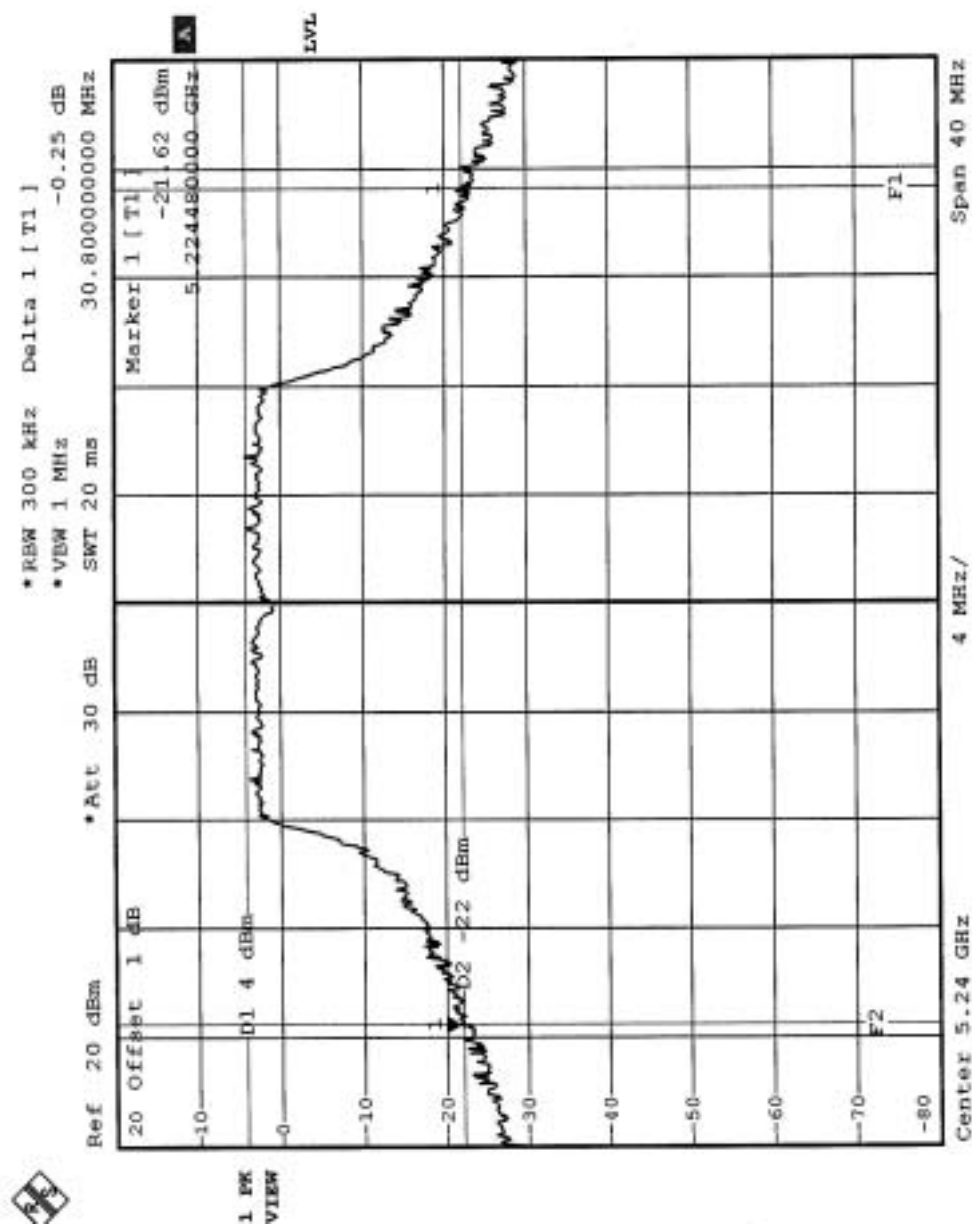
CHANNEL 5



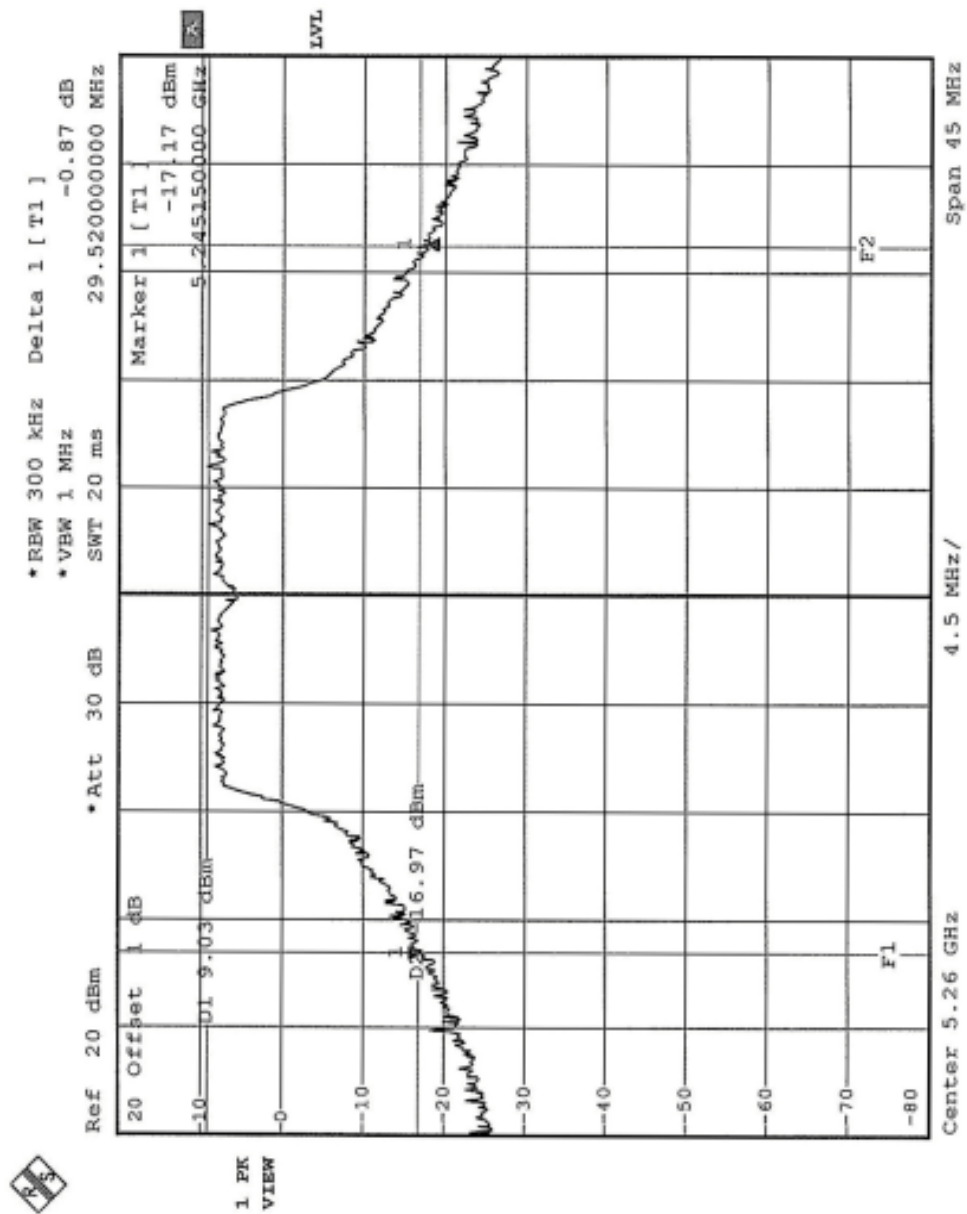
CHANNEL 1



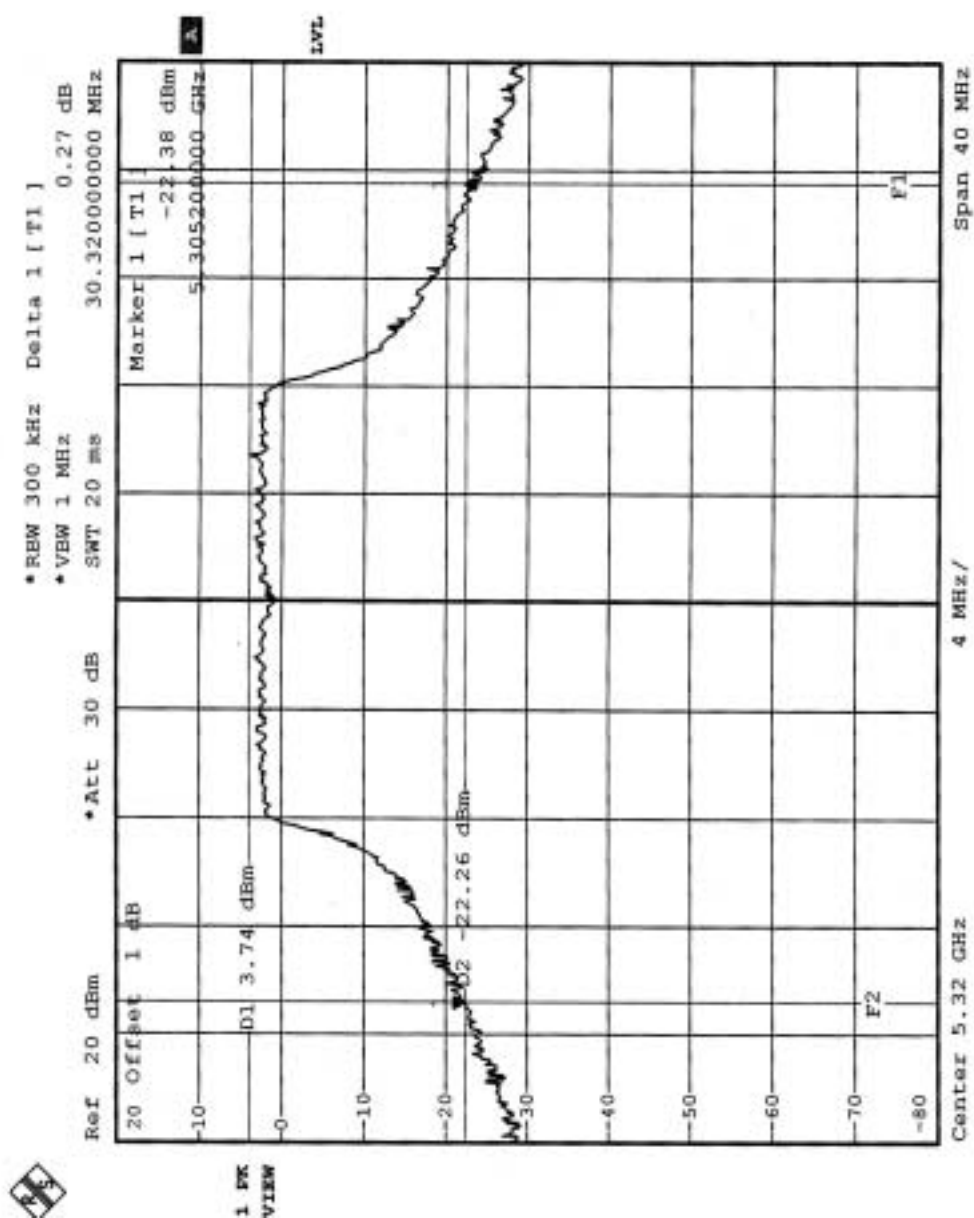
CHANNEL 4



CHANNEL 5



CHANNEL 8



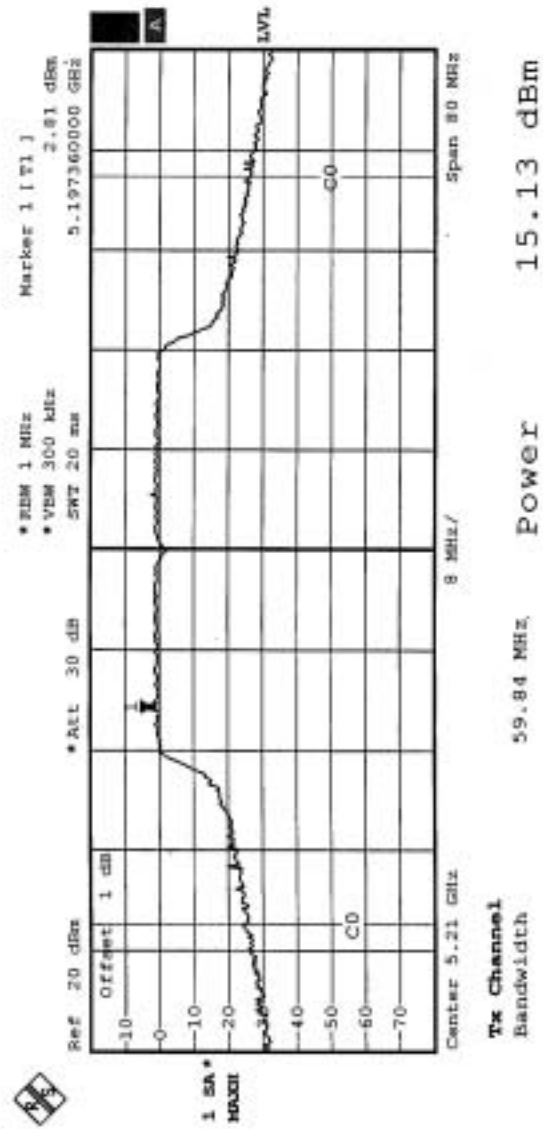


EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 66RH, 974 hPa	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	15.13	17.00	59.84	PASS
2	5250	15.53	24.00	57.60	PASS
3	5290	15.57	24.00	60.96	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

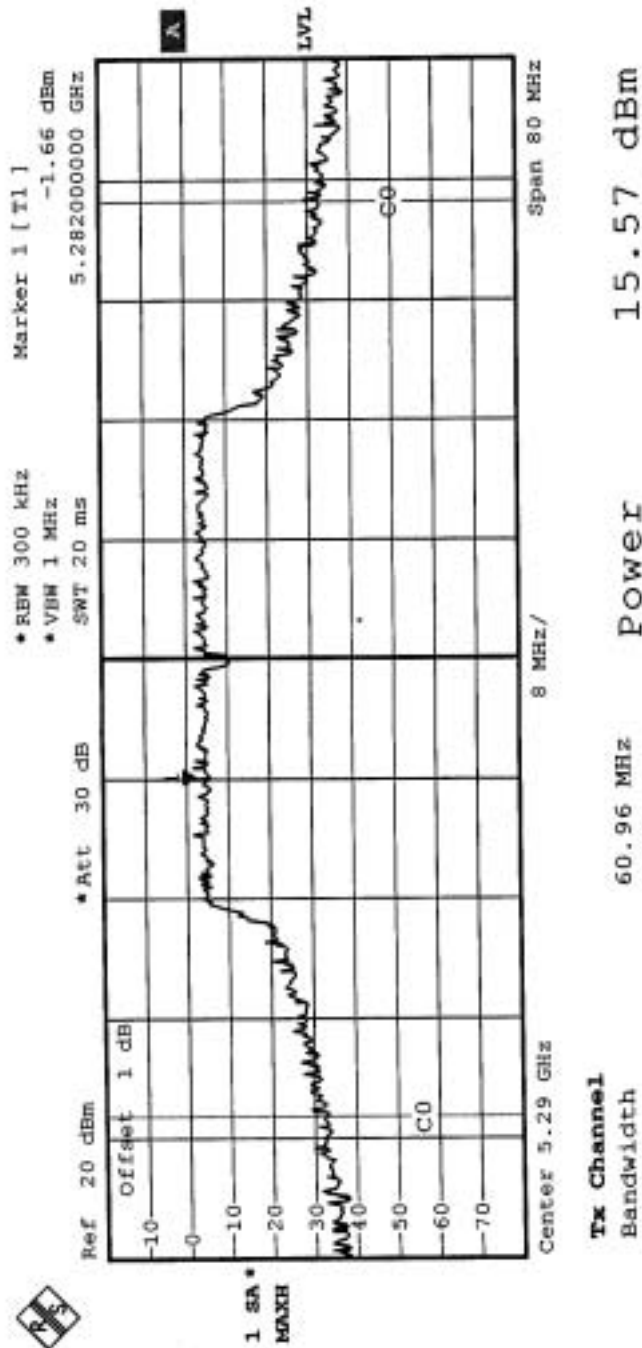
CHANNEL 1



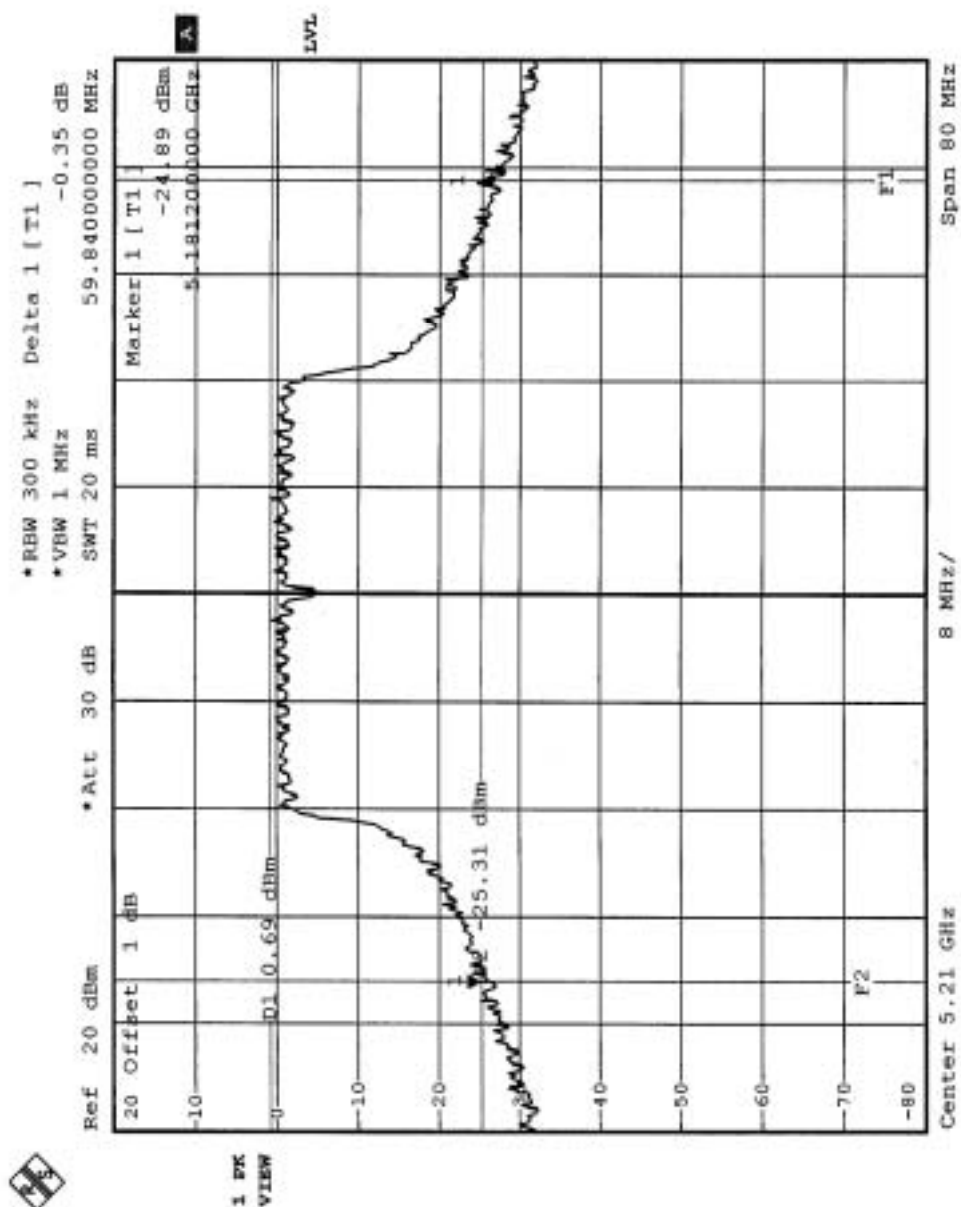
* RBW 1 MHz
 * VBW 300 kHz
 * Att 30 dB
 * Span 80 MHz
 * Center 5.25 GHz
 * Marker 1 [71]
 1.83 dBm
 5.24040000 GHz

Ref 20 dBm
 Offset 1 dB
 1 SA *
 15.53 dBm
 57.6 MHz
 Power
 Tx Channel
 Bandwidth

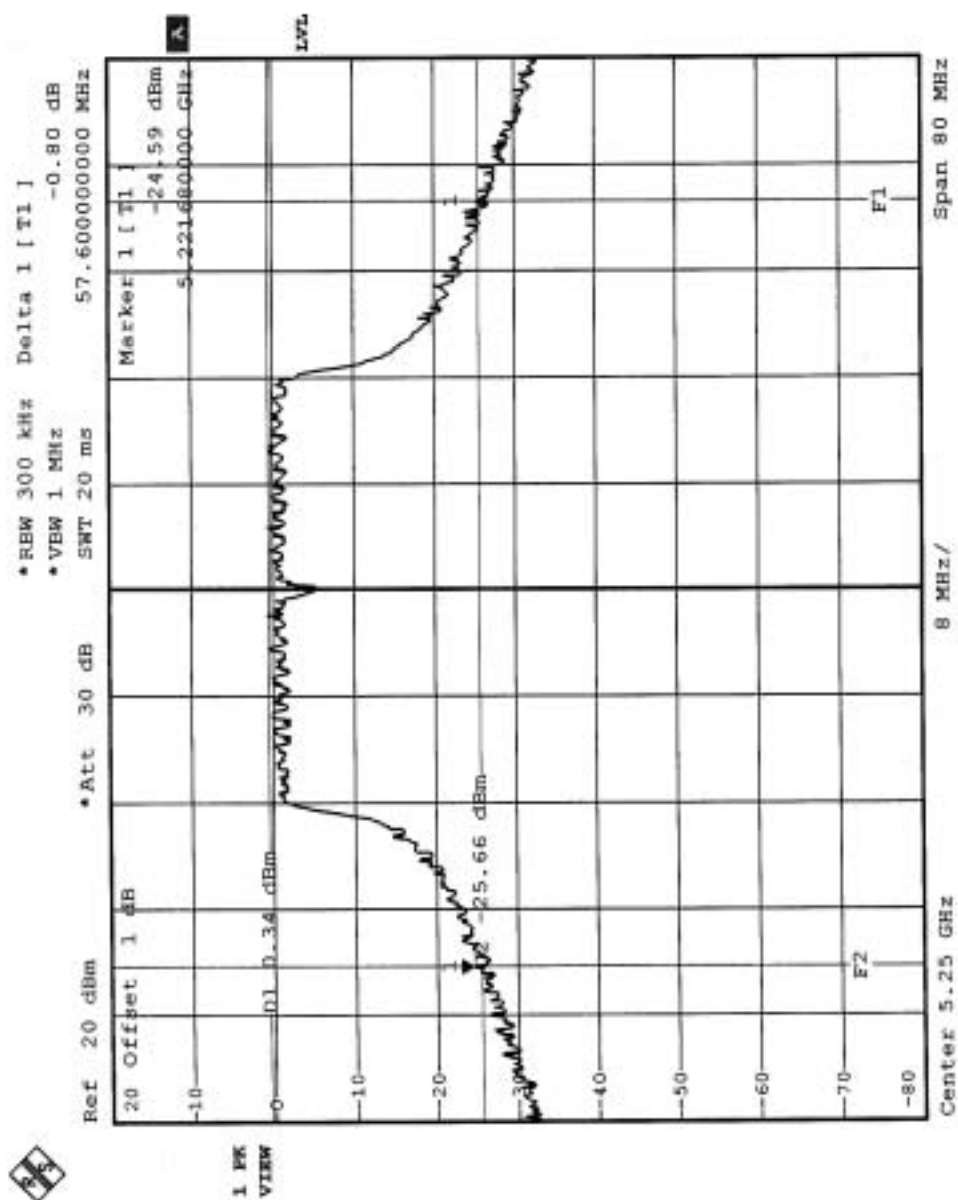
CHANNEL 3



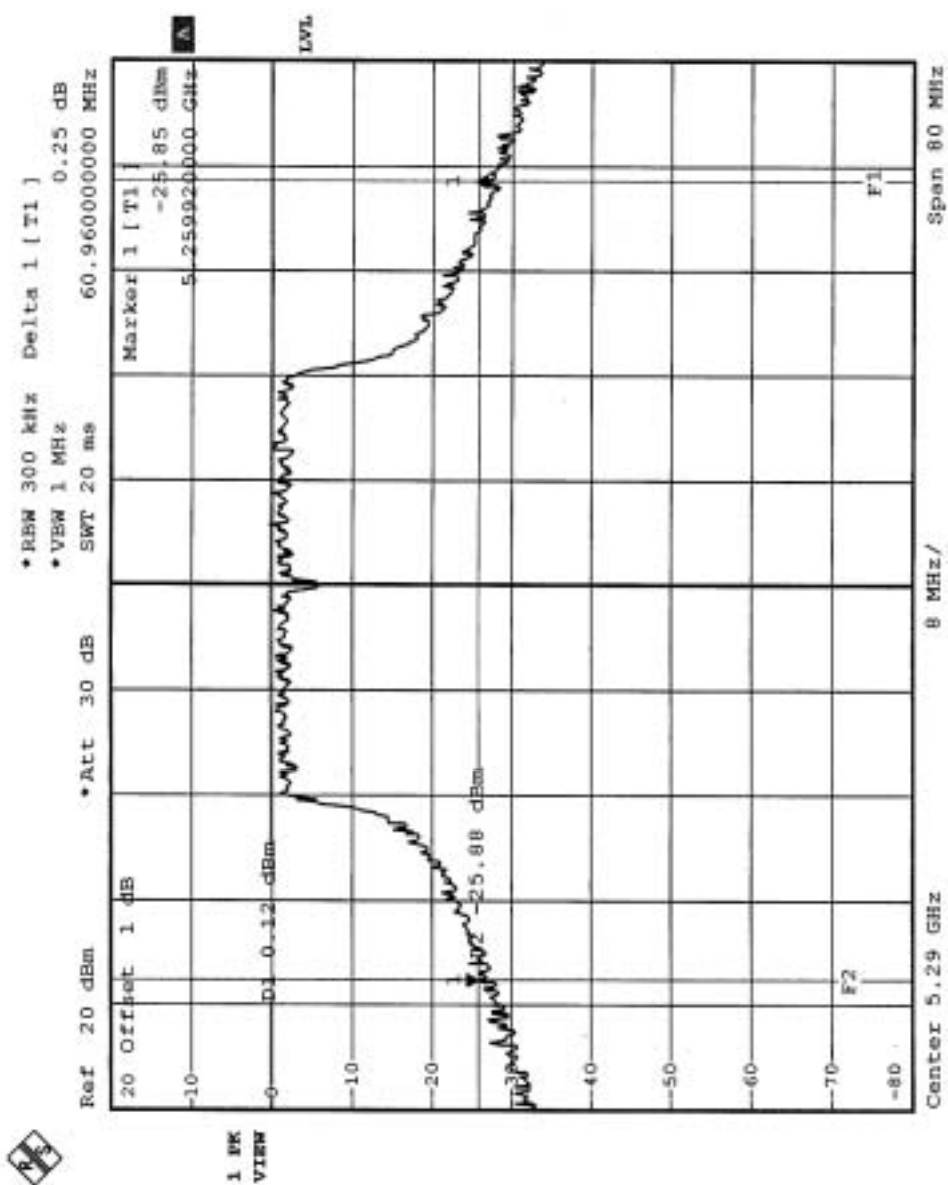
CHANNEL 1



CHANNEL 2



CHANNEL 3



5.4 PEAK POWER EXCURSION MEASUREMENT

5.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.725 – 5.825 GHz	13dB

5.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

NOTE:

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

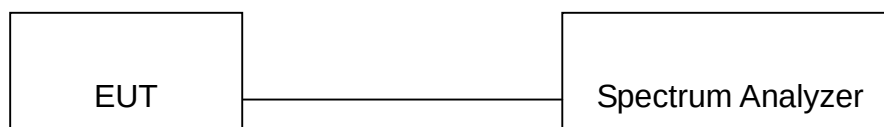
5.4.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=30KHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation

5.4.5 TEST SETUP



5.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

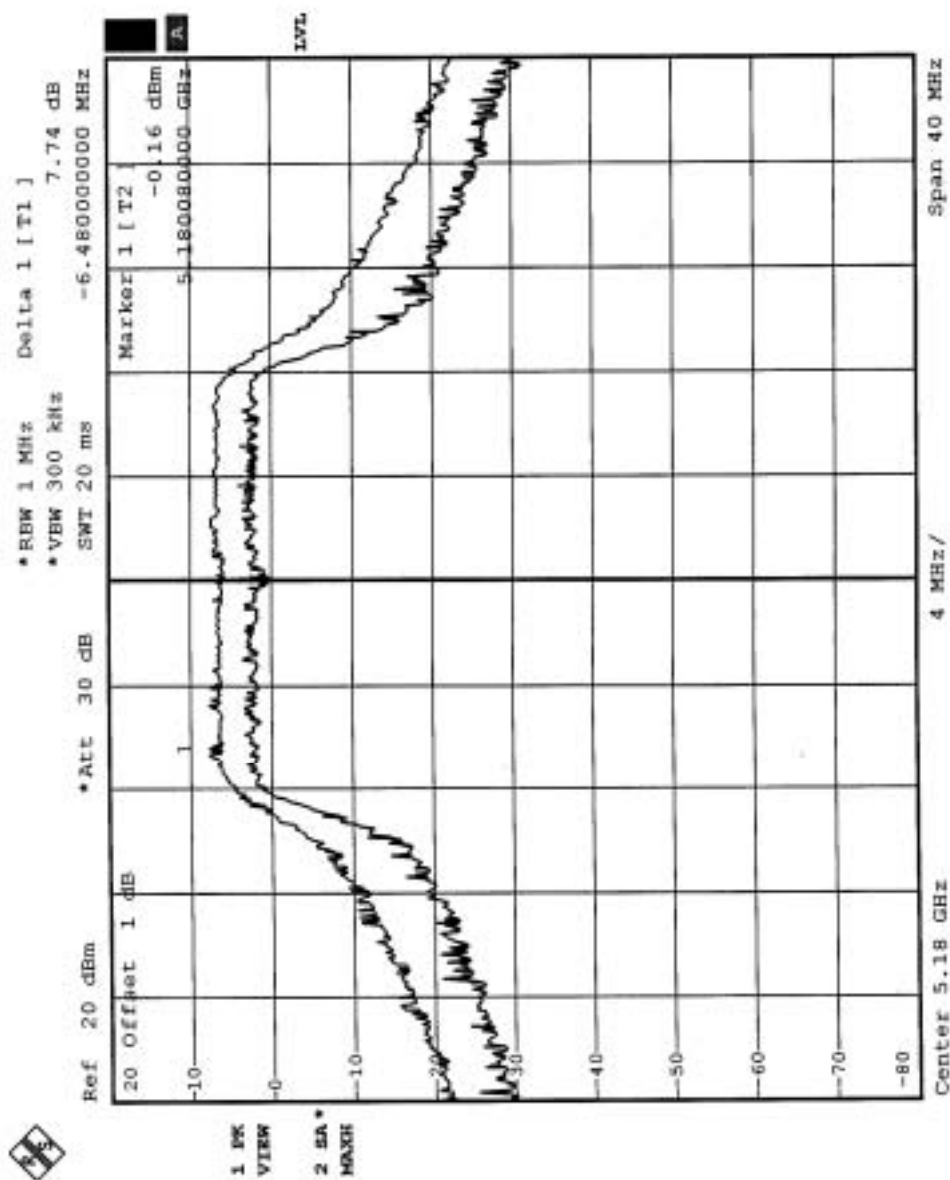


5.4.7 TEST RESULTS

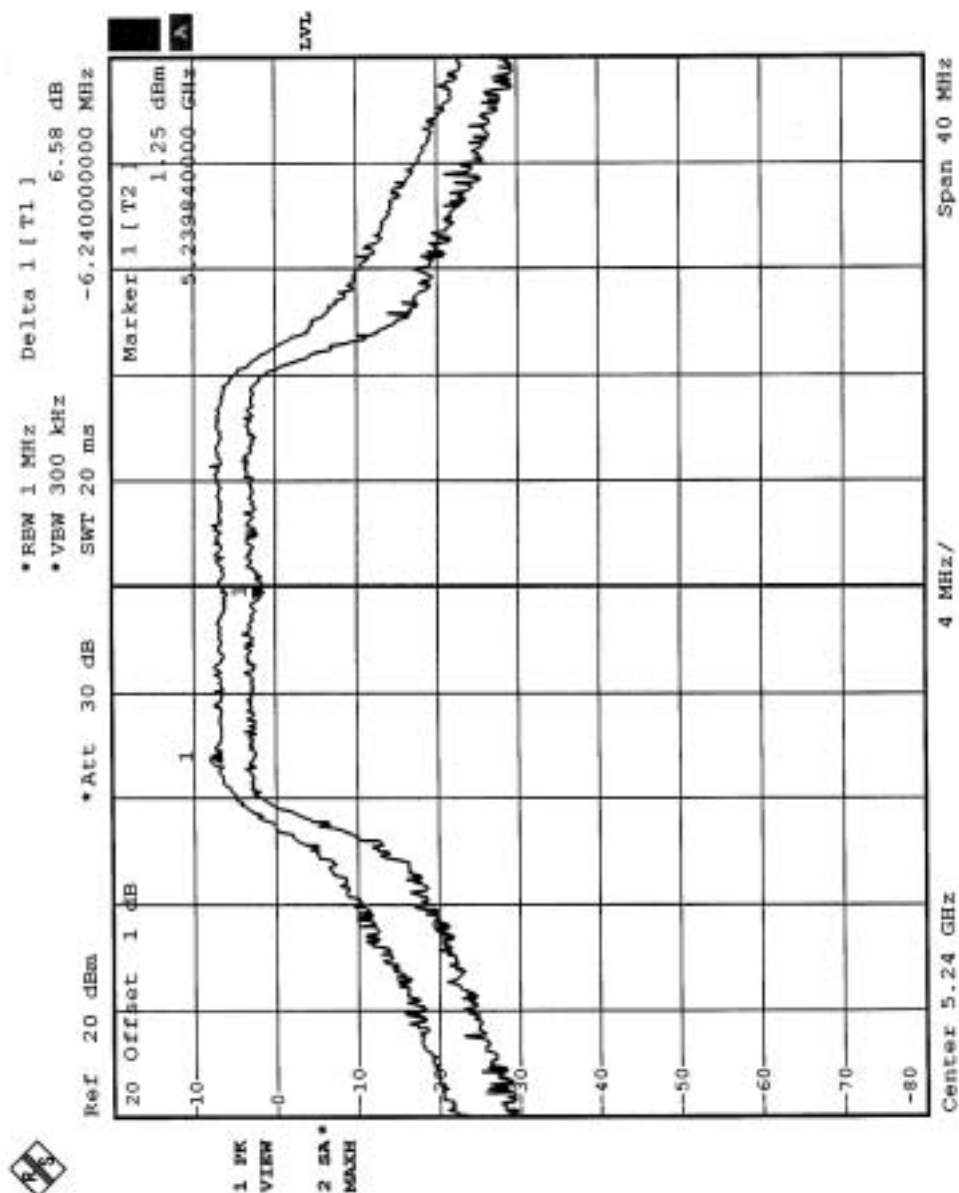
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 974 hPa	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	7.74	13	PASS
4	5240	6.58	13	PASS
5	5260	8.78	13	PASS
8	5320	7.36	13	PASS

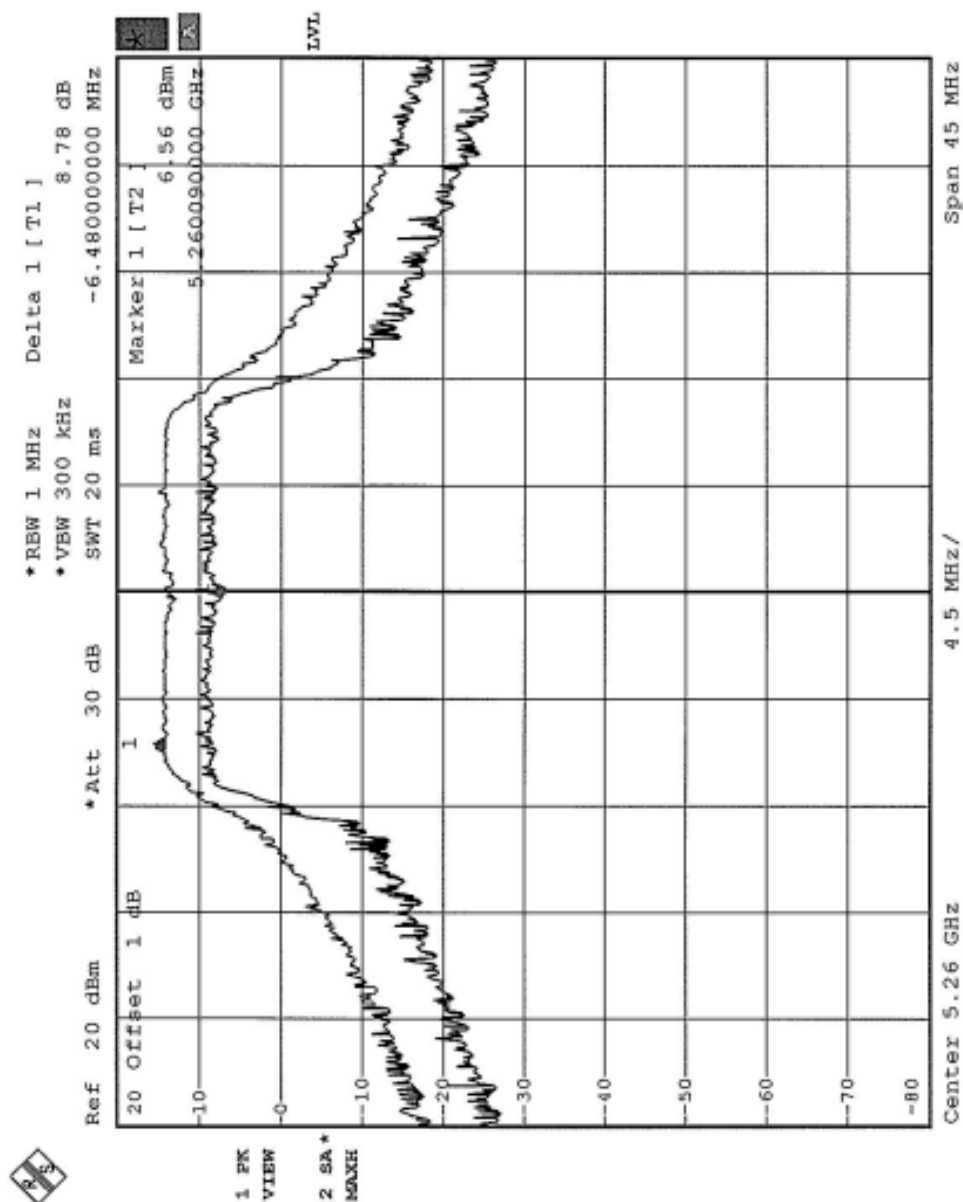
CHANNEL 1



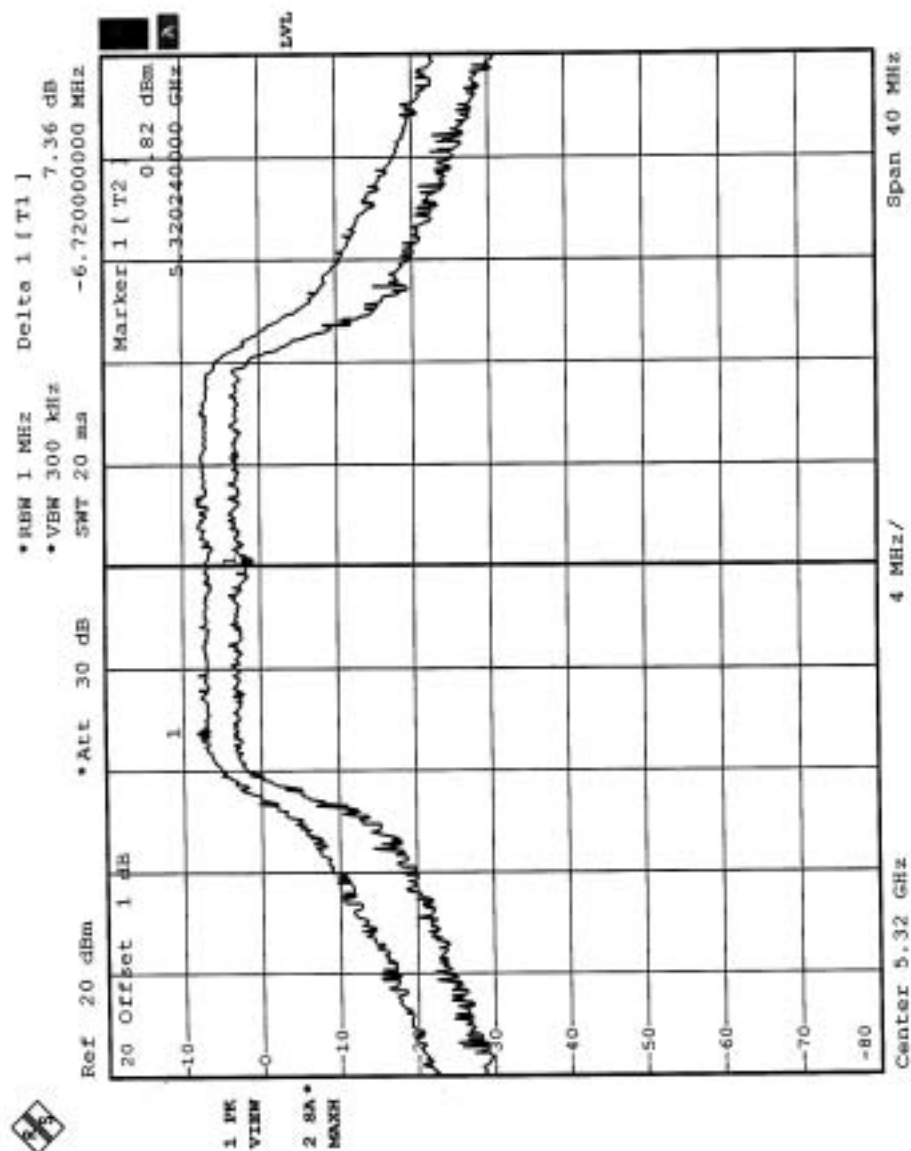
CHANNEL 4



CHANNEL 5



CHANNEL 8

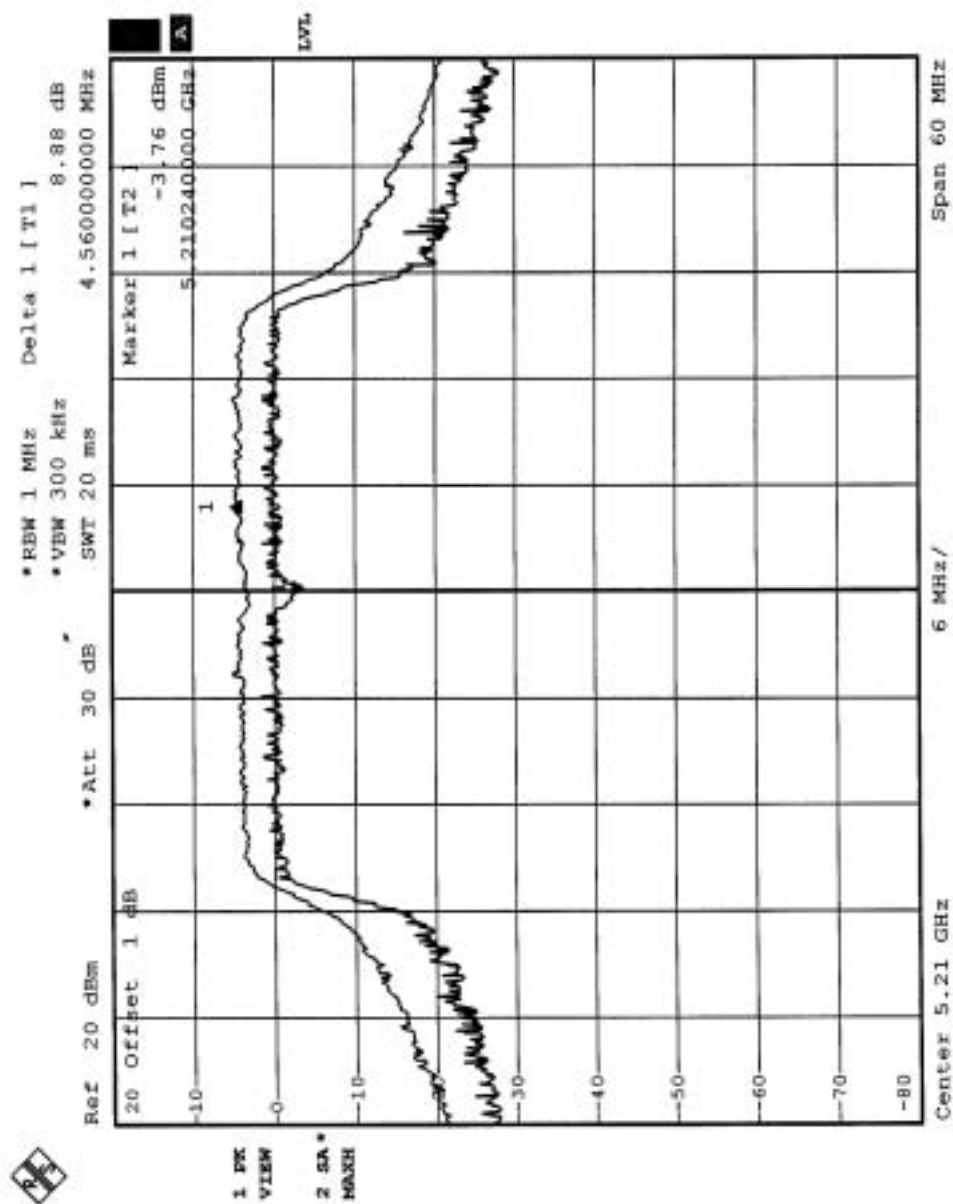




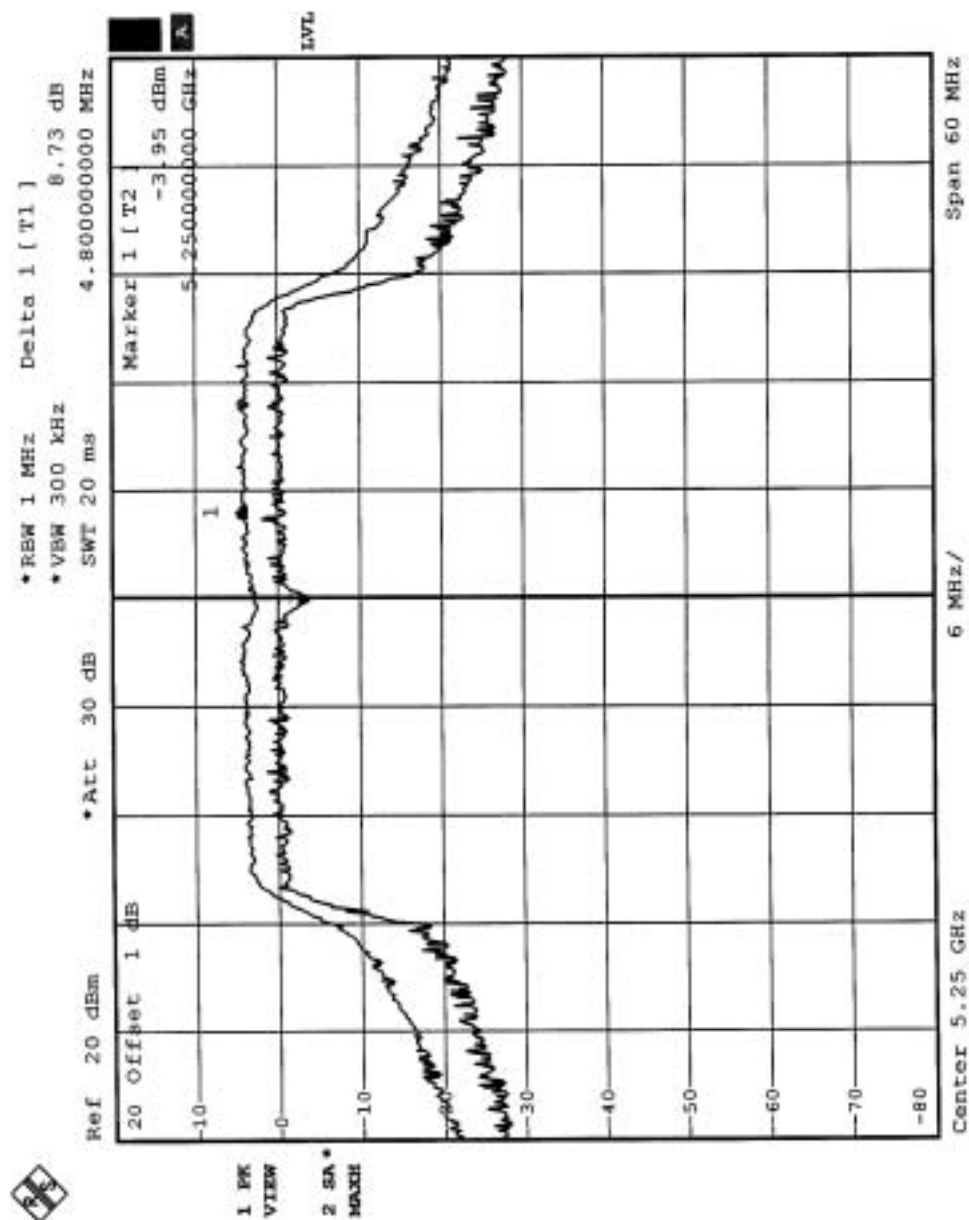
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 974 hPa	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5210	8.88	13	PASS
2	5250	8.73	13	PASS
3	5290	7.32	13	PASS

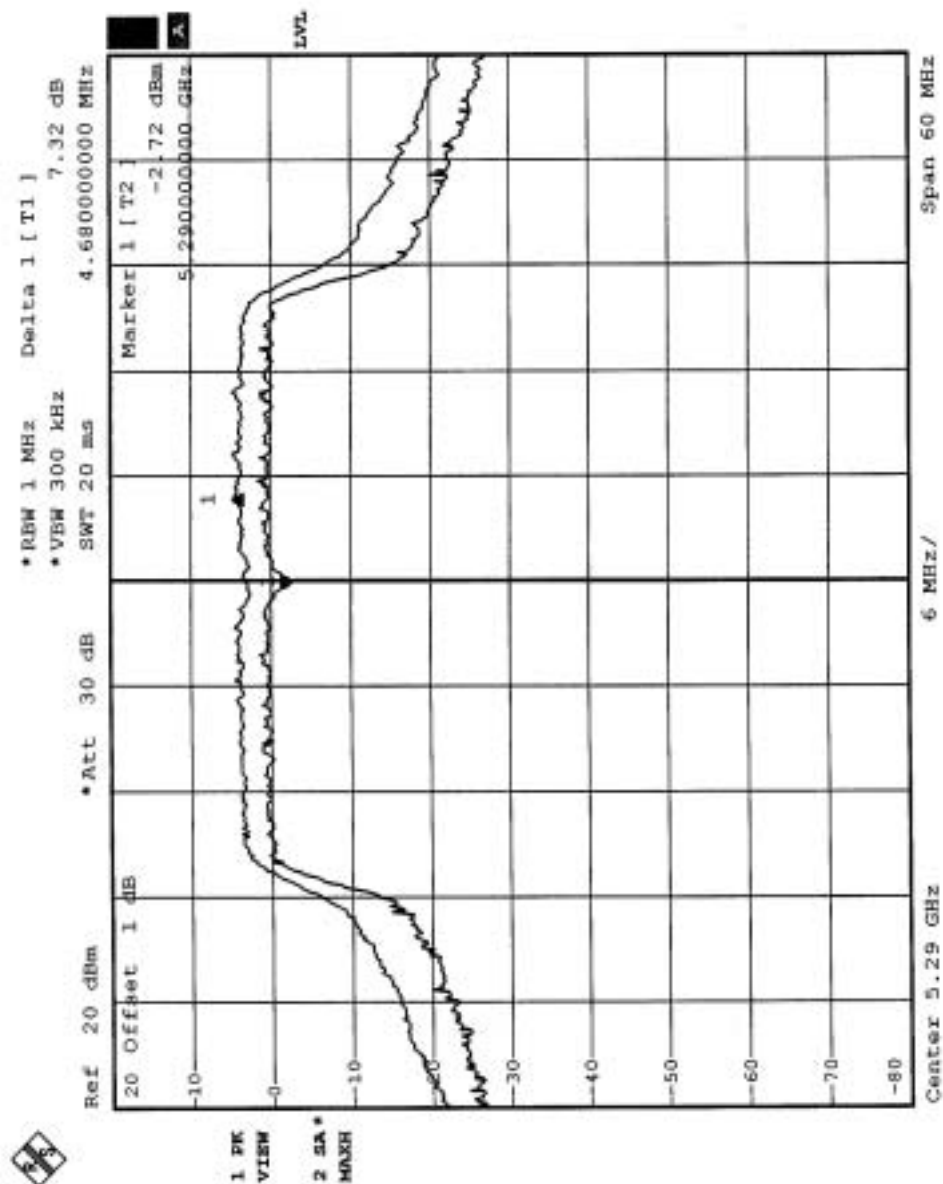
CHANNEL 1



CHANNEL 2



CHANNEL 3



5.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	4dBm
5.25 – 5.35 GHz	11dBm
5.725 – 5.825 GHz	17dBm

5.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

NOTE:

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

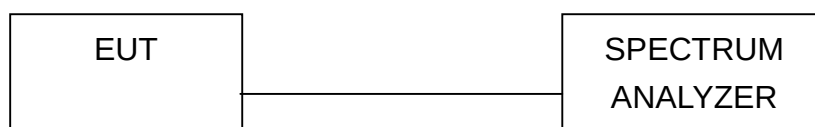
5.5.3 TEST PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5.5 TEST SETUP



5.5.6 EUT OPERATING CONDITIONS

Same as 5.3.6

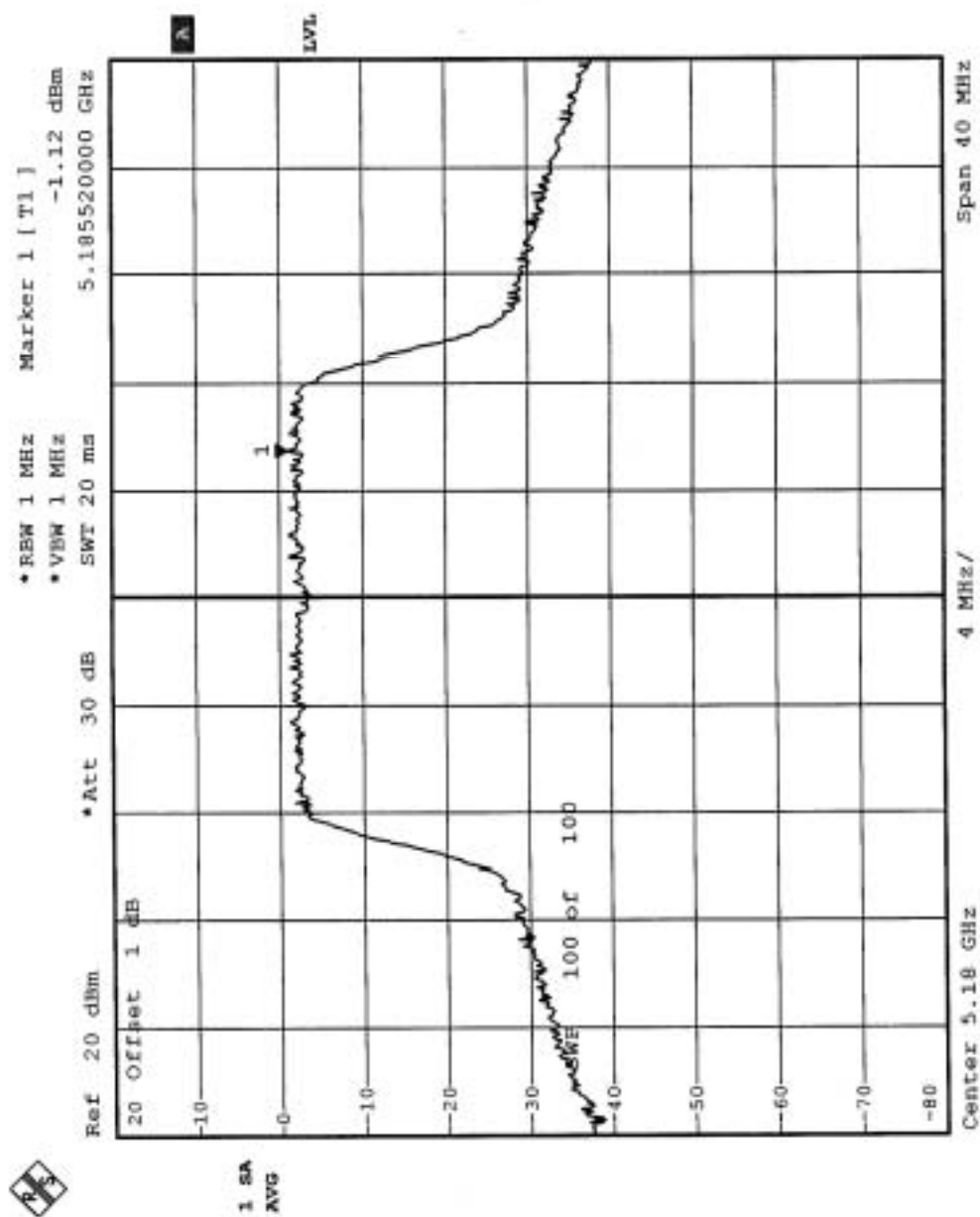


5.5.7 TEST RESULTS

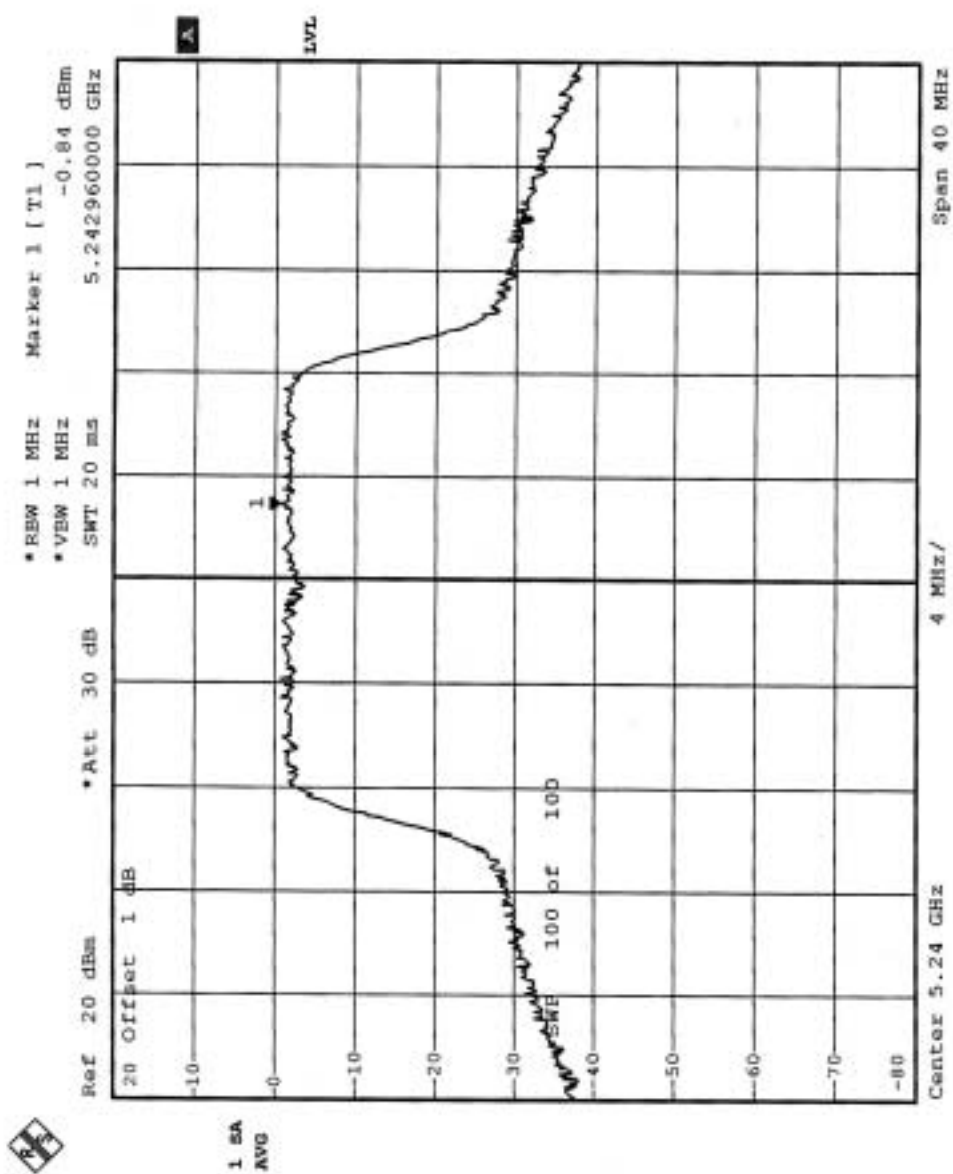
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 974 hPa	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	-1.12	4	PASS
4	5240	-0.84	4	PASS
5	5260	3.93	11	PASS
8	5320	-0.23	11	PASS

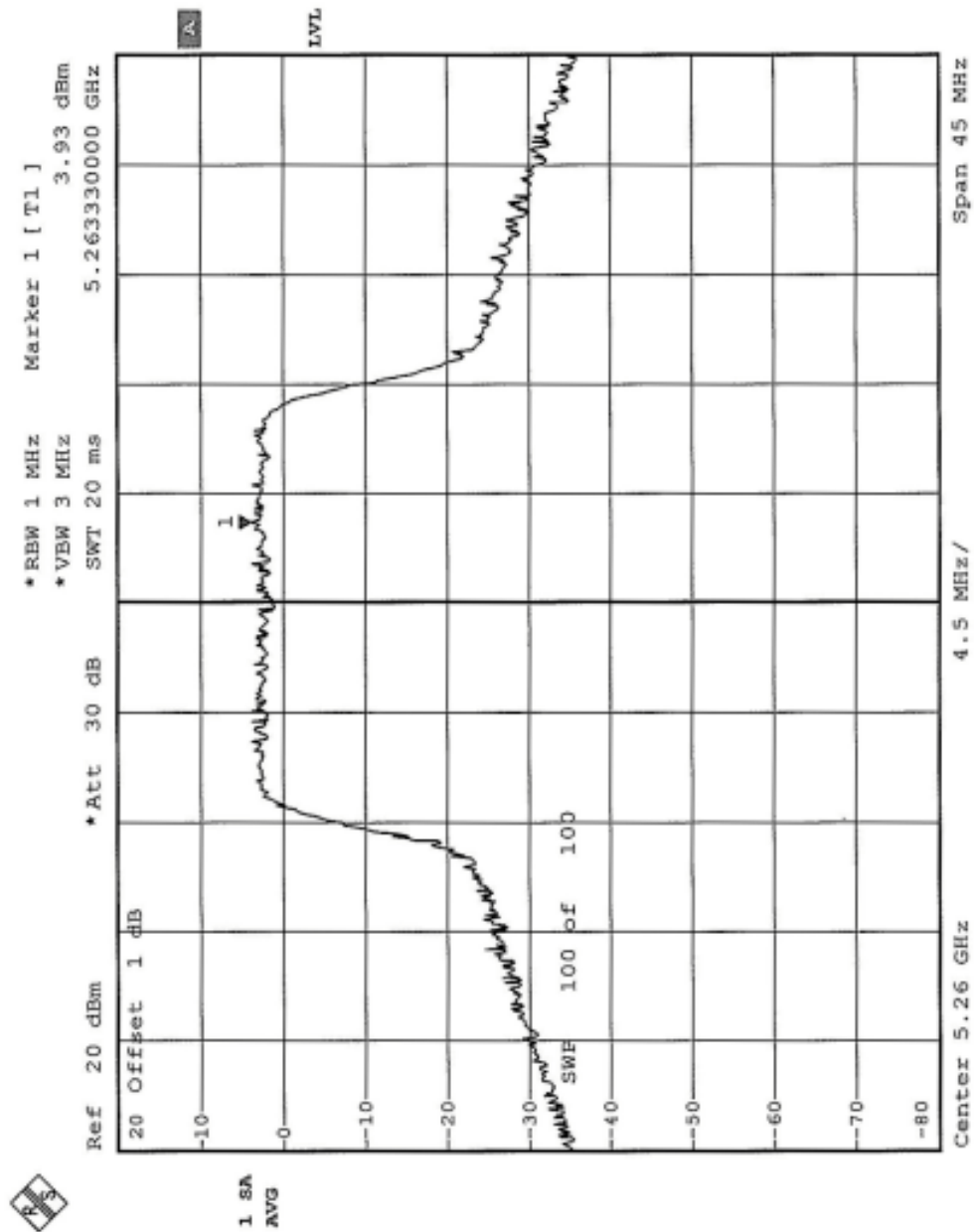
CHANNEL 1



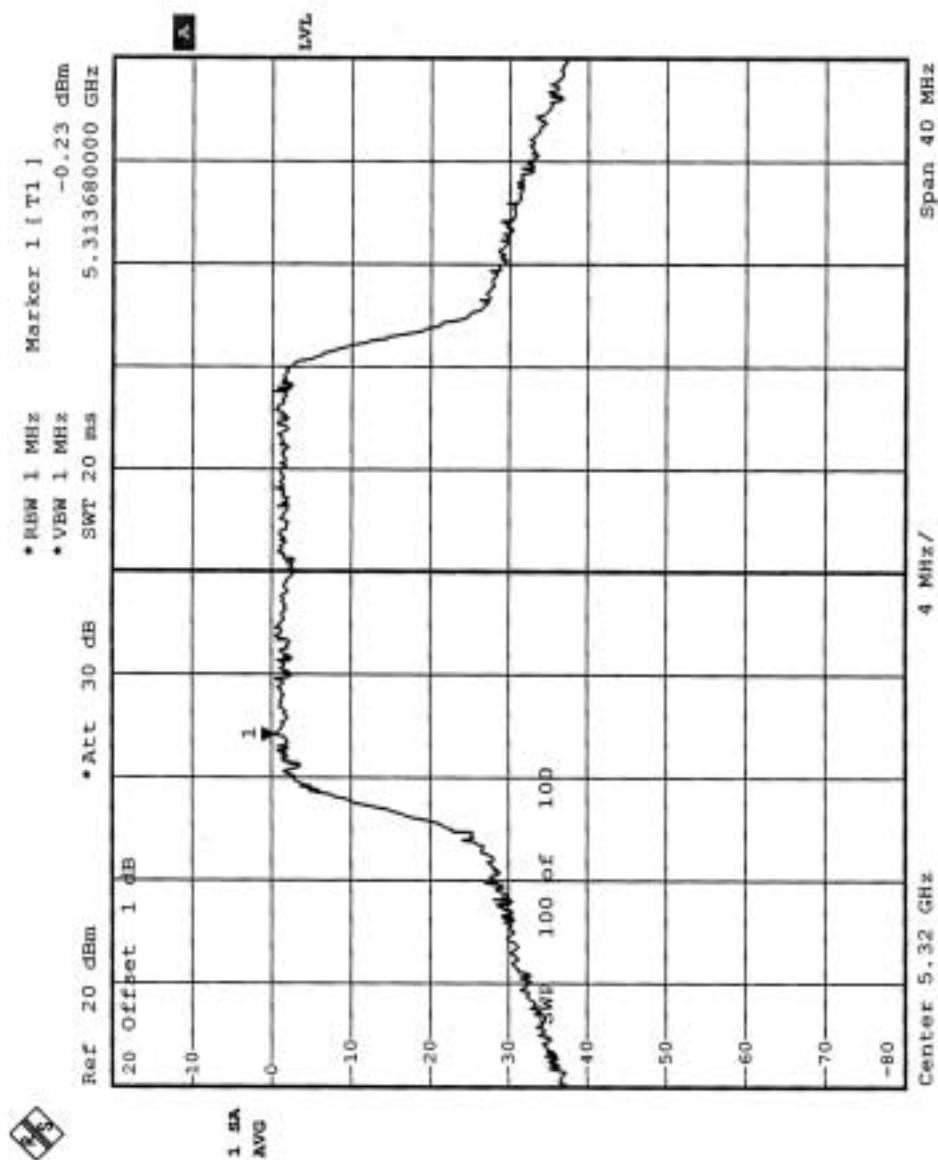
CHANNEL 4



CHANNEL 5



CHANNEL 8

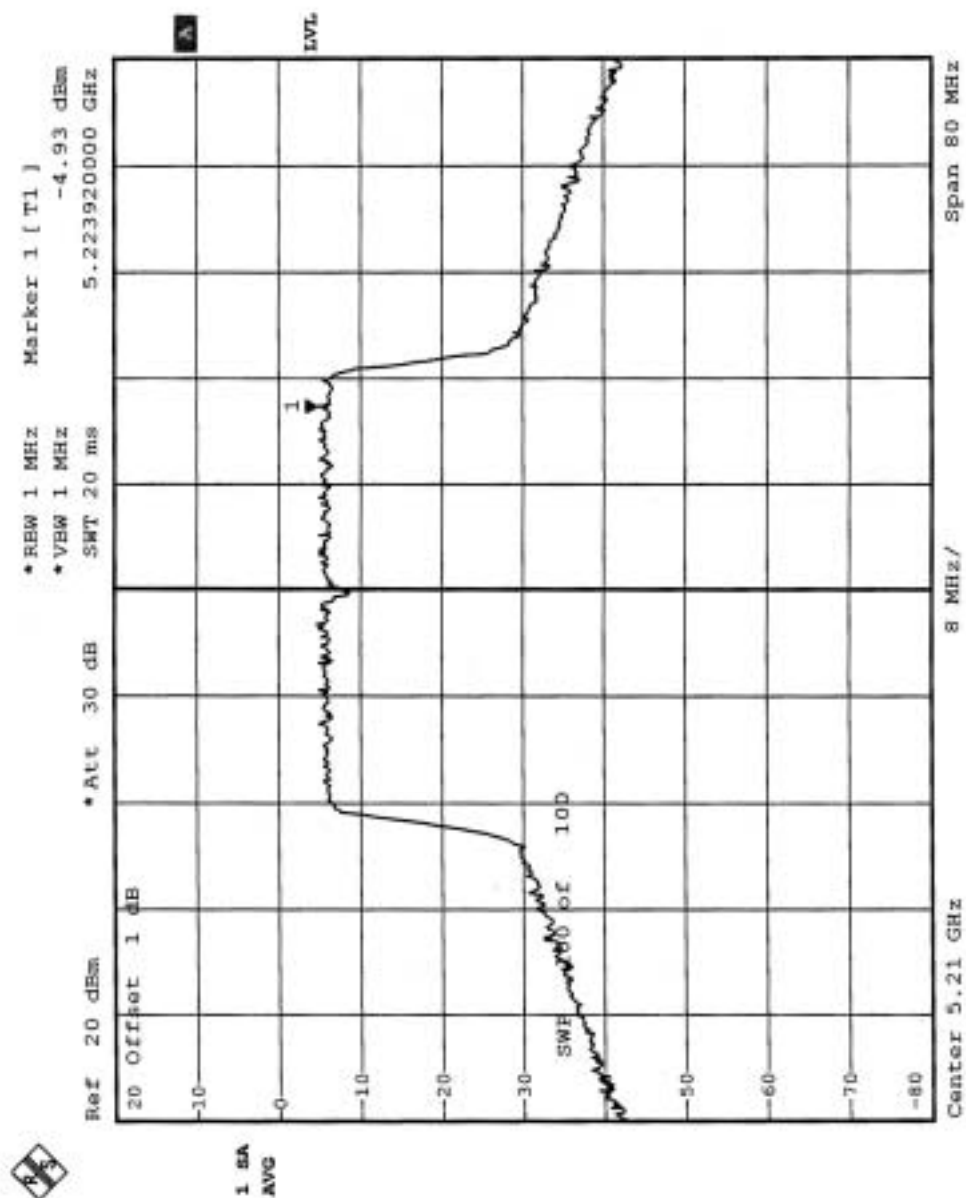




EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 974 hPa	TESTED BY	Eric Lee

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-4.93	4	PASS
2	5250	-3.70	4	PASS
3	5290	-3.81	11	PASS

CHANNEL 1



1 SA
AVG

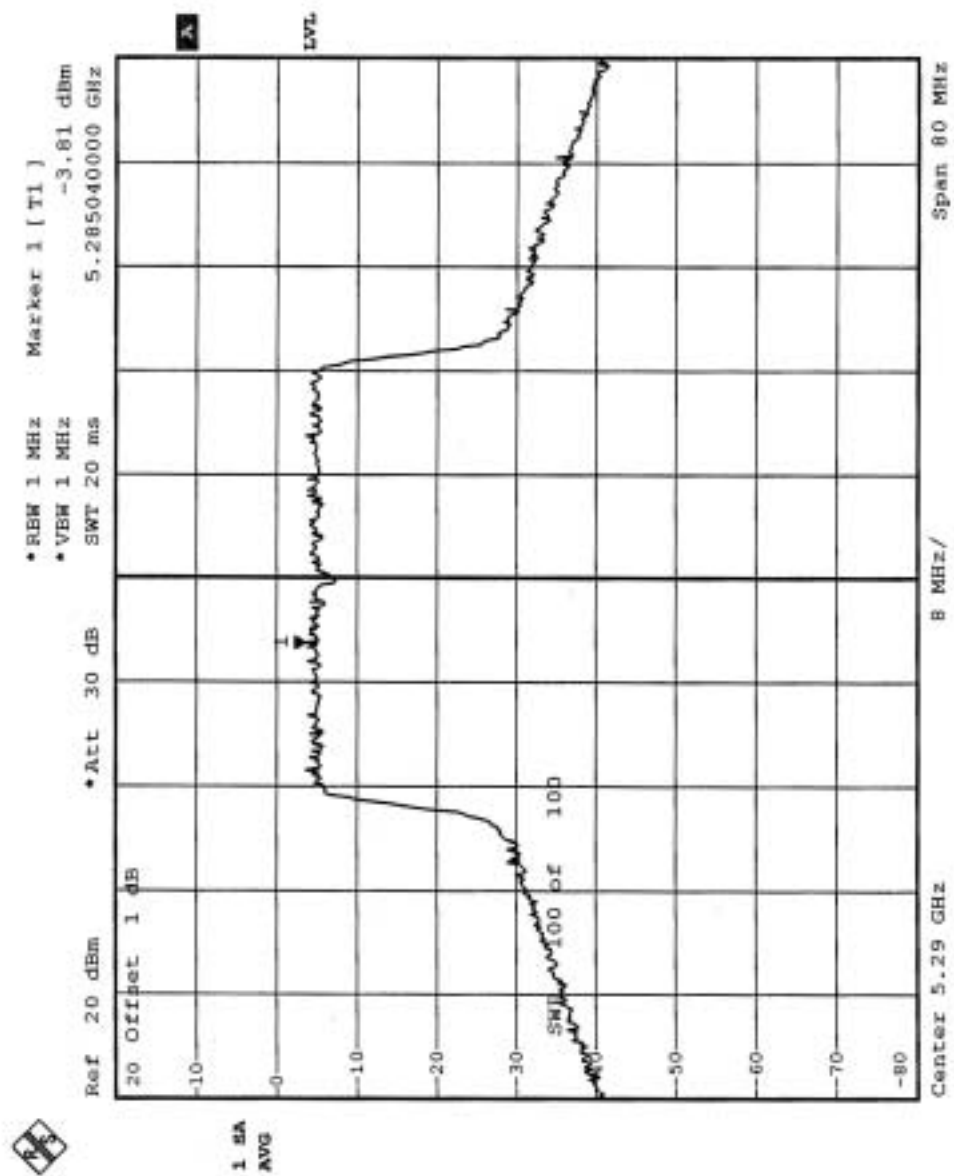
Ref 20 dBm
20 Offset 1 dB

•REW 1 MHz
•VBW 1 MHz
•Att 30 dB
SWT 20 ms

Marker 1 [T1]
-3.70 dBm
5.25560000 GHz

Center 5.25 GHz
Span 80 MHz

CHANNEL 3





5.6 FREQUENCY STABILITY

5.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

5.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

NOTE:

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

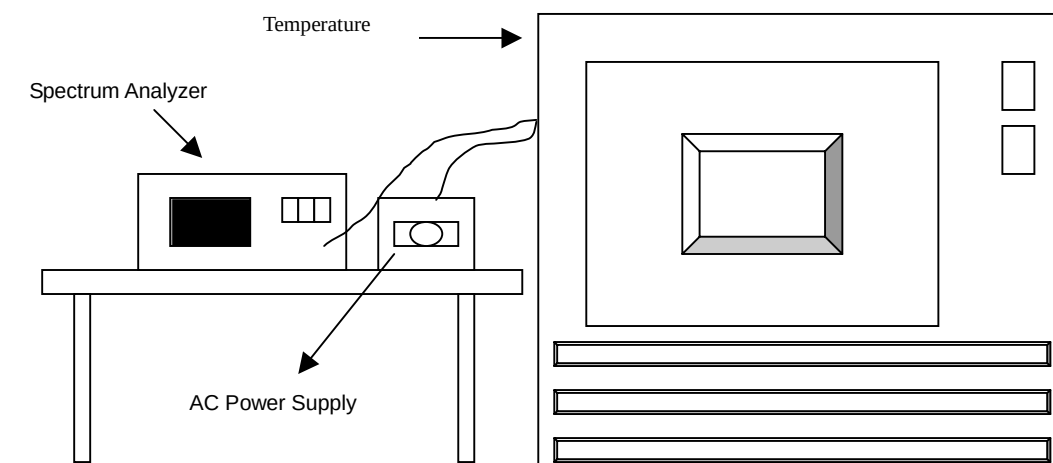
5.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

5.6.4 DEVIATION FROM TEST STANDARD

No deviation

5.6.5 TEST SETUP



5.6.6 EUT OPERATING CONDITION

Same as Item 4.1.6

5.6.7 TEST RESULTS

Operating frequency: 5320MHz				Limit : $\pm 0.02\%$			
Temp. (°C)	Power supply (VAC)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	126.5	5320.0167	0.000314%	5320.0167	0.000314%	5320.0168	0.000316%
	110.0	5320.0168	0.000316%	5320.0169	0.000318%	5320.0168	0.000316%
	93.5	5320.0166	0.000312%	5320.017	0.000320%	5320.0168	0.000316%
40	126.5	5319.9974	-0.000049%	5319.9979	-0.000039%	5319.9978	-0.000041%
	110.0	5319.9976	-0.000045%	5319.9977	-0.000043%	5319.9979	-0.000039%
	93.5	5319.9975	-0.000047%	5319.9978	-0.000041%	5319.9978	-0.000041%
30	126.5	5319.9932	-0.000128%	5319.9935	-0.000122%	5319.9934	-0.000124%
	110.0	5319.9932	-0.000128%	5319.9934	-0.000124%	5319.9936	-0.000120%
	93.5	5319.9932	-0.000128%	5319.9936	-0.000120%	5319.9937	-0.000118%
20	126.5	5319.9955	-0.000085%	5319.9955	-0.000085%	5319.9955	-0.000085%
	110.0	5319.9952	-0.000090%	5319.9953	-0.000088%	5319.9953	-0.000088%
	93.5	5319.9955	-0.000085%	5319.9956	-0.000083%	5319.9954	-0.000086%
10	126.5	5319.9934	-0.000124%	5319.9936	-0.000120%	5319.9938	-0.000117%
	110.0	5319.9932	-0.000128%	5319.9935	-0.000122%	5319.9938	-0.000117%
	93.5	5319.9935	-0.000122%	5319.9935	-0.000122%	5319.9937	-0.000118%
0	126.5	5319.9945	-0.000103%	5319.9945	-0.000103%	5319.9946	-0.000102%
	110.0	5319.9944	-0.000105%	5319.9946	-0.000102%	5319.9947	-0.000100%
	93.5	5319.9944	-0.000105%	5319.9944	-0.000105%	5319.9947	-0.000100%
-10	126.5	5320.0039	0.000073%	5320.0041	0.000077%	5320.0043	0.000081%
	110.0	5320.004	0.000075%	5320.0042	0.000079%	5320.0043	0.000081%
	93.5	5320.0041	0.000077%	5320.0042	0.000079%	5320.0043	0.000081%
-20	126.5	5320.0185	0.000348%	5320.0184	0.000346%	5320.0186	0.000350%
	110.0	5320.0184	0.000346%	5320.0185	0.000348%	5320.0186	0.000350%
	93.5	5320.0185	0.000348%	5320.0186	0.000350%	5320.0186	0.000350%
-30	126.5	5320.019	0.000357%	5320.0210	0.000395%	5320.0220	0.000414%
	110.0	5320.02	0.000376%	5320.0220	0.000414%	5320.0210	0.000395%
	93.5	5320.019	0.000357%	5320.0220	0.000414%	5320.0220	0.000414%

5.7 BAND EDGES MEASUREMENT

5.7.1 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 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.

5.7.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW of spectrum analyzer to 1MHz and VBW of spectrum analyzer to 300Hz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

5.7.3 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



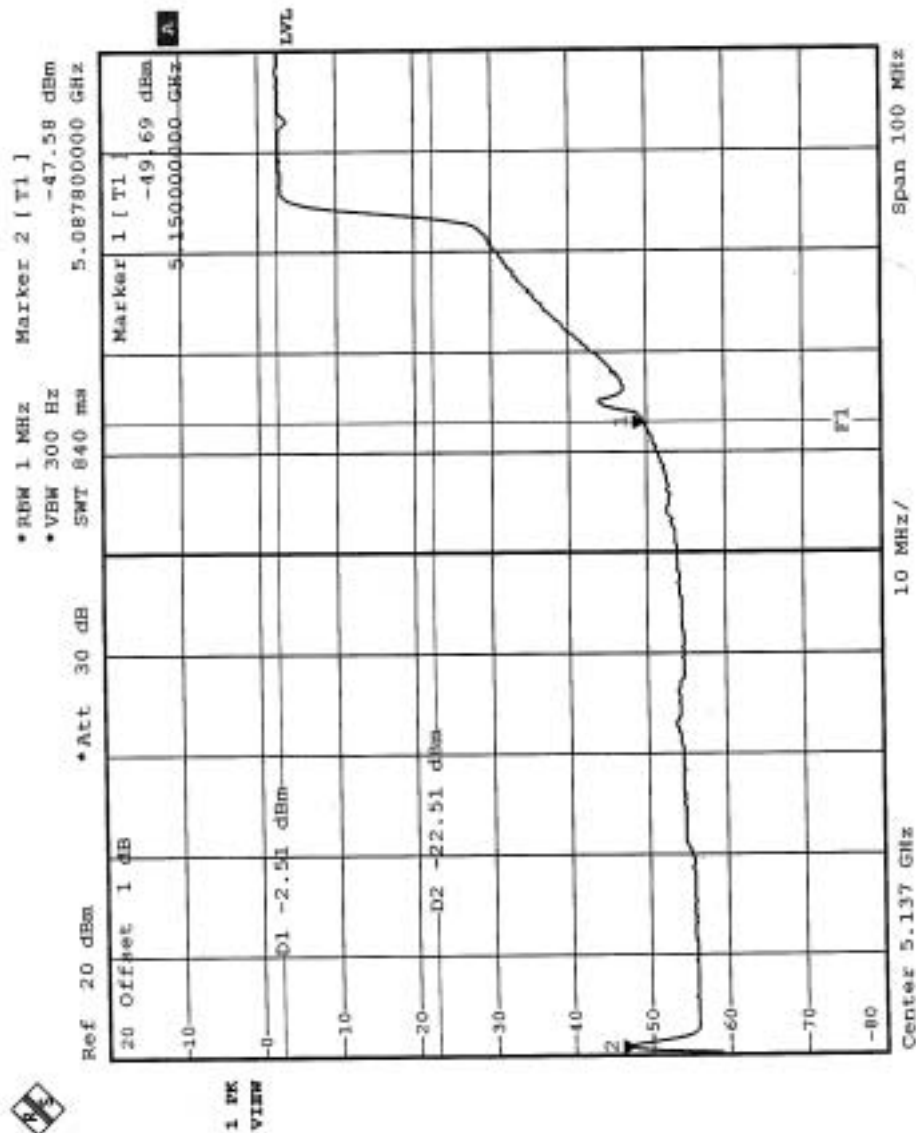
5.7.4 TEST RESULTS

For signals in the restricted bands 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 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.

The spectrum plots (Average RBW=1MHz, VBW=300Hz) are attached on the following 4 pages.

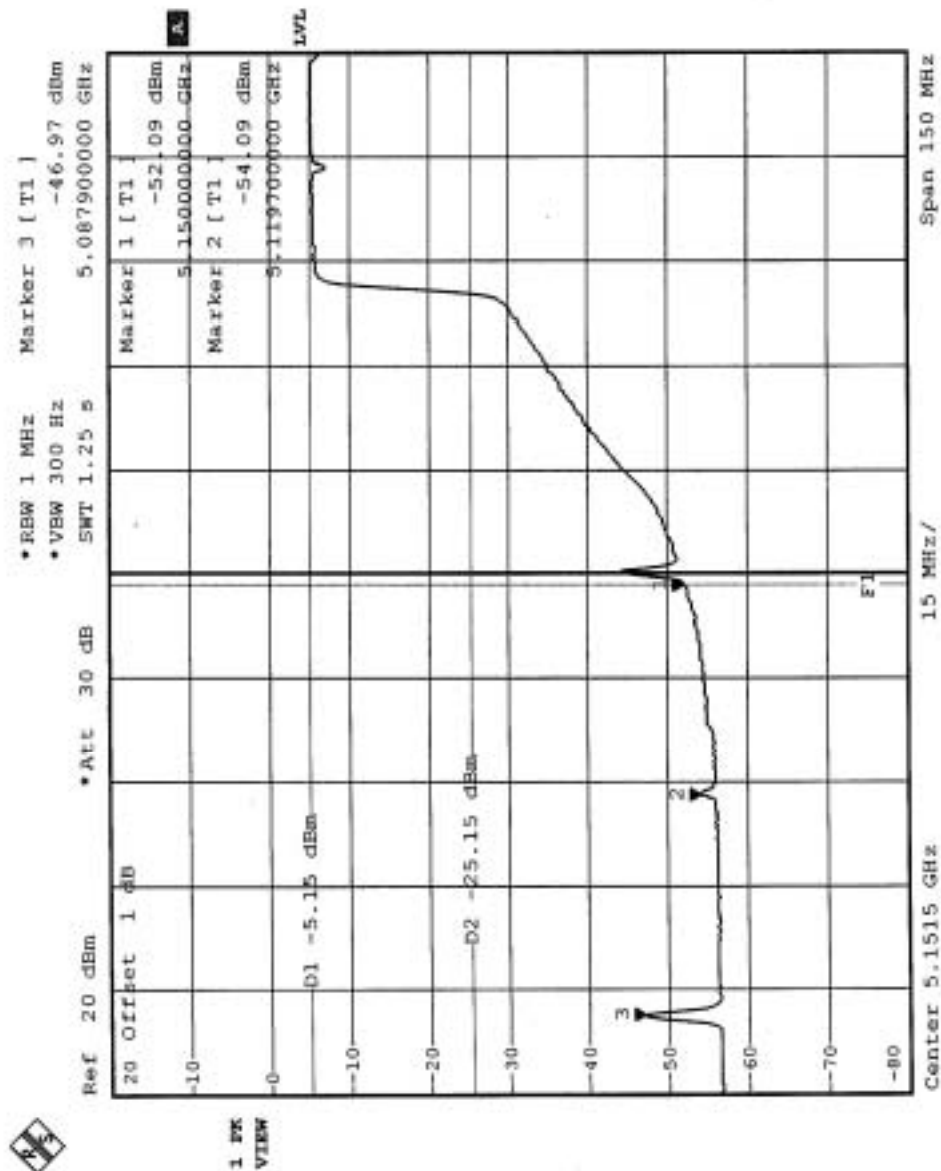
Normal Mode: Channel 1 (5180 MHz)

The band edge emission plot on the following page shows 45.07dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 95.7dBuV/m, so the maximum field strength in restrict band is $95.7 - 45.07 = 50.63$ dBuV/m which is under 54dBuV/m limit.



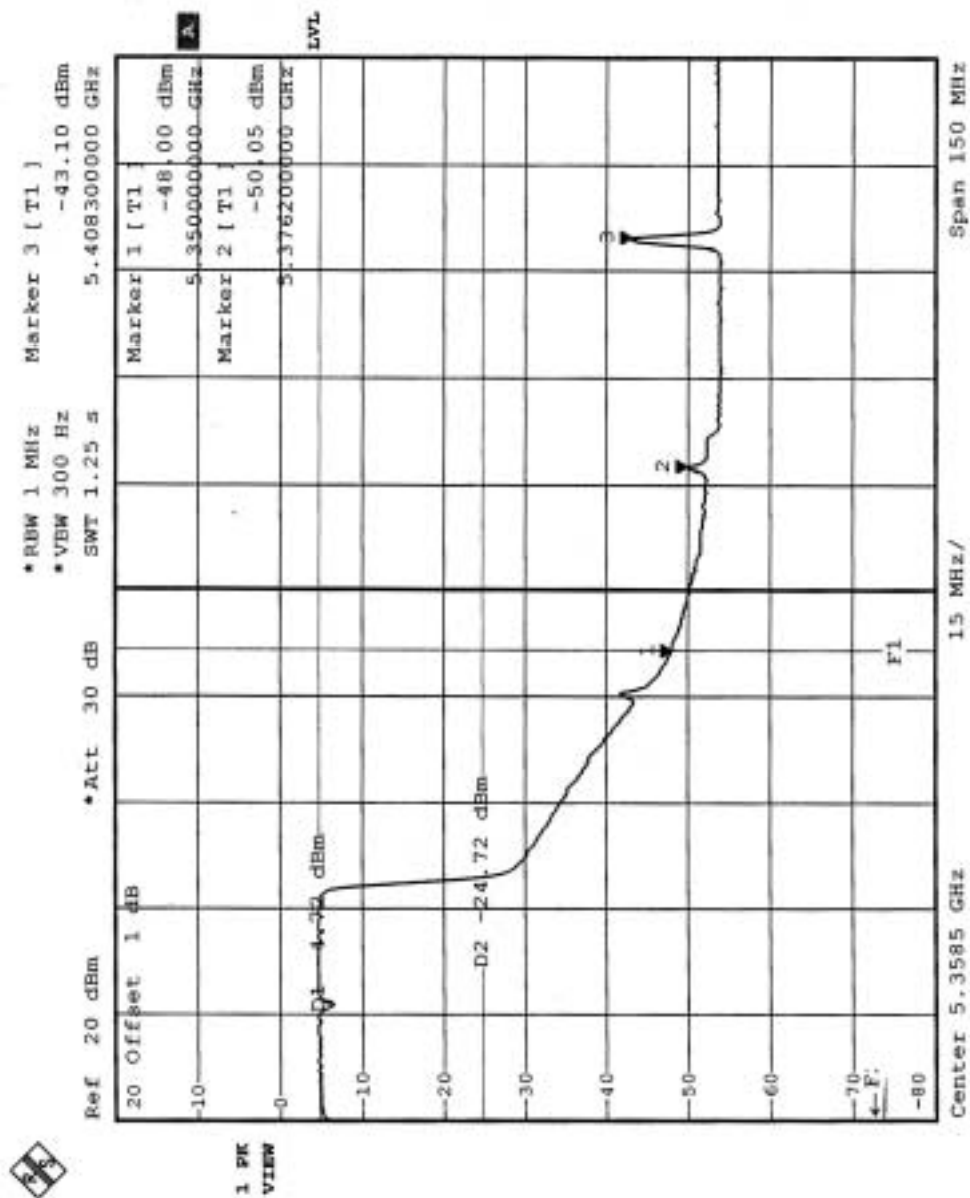
Turbo Mode: Channel 1 (5210 MHz)

The band edge emission plot on the following page shows 41.82dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (turbo mode) is 92.2dBuV/m, so the maximum field strength in restrict band is $92.2 - 41.82 = 50.38$ dBuV/m which is under 54dBuV/m limit.



Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the following page shows 38.38dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (turbo mode) is 91.2dBuV/m, so the maximum field strength in restrict band is $91.2 - 38.38 = 52.82$ dBuV/m which is under 54dBuV/m limit.



FOR FREQUENCY 5.725~5.850GHz**5.8 6DB BANDWIDTH MEASUREMENT****5.8.1 LIMITS OF 6DB BANDWIDTH MEASUREMENT**

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.8.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 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.

5.8.3 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.

5.8.4 DEVIATION FROM TEST STANDARD

No deviation

5.8.5 TEST SETUP



5.8.6 EUT OPERATING CONDITIONS

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

5.8.7 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 57%RH, 974 hPa
TEST MODE	Normal	TEST BY	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
9	5745	16.56	0.5	PASS
11	5785	16.56	0.5	PASS
13	5825	16.56	0.5	PASS

1 PK
VIEW

*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz 0.05 dB

Ref 20 dBm *Att 30 dB

20 Offset 1 dB

D1 4.91 dBm

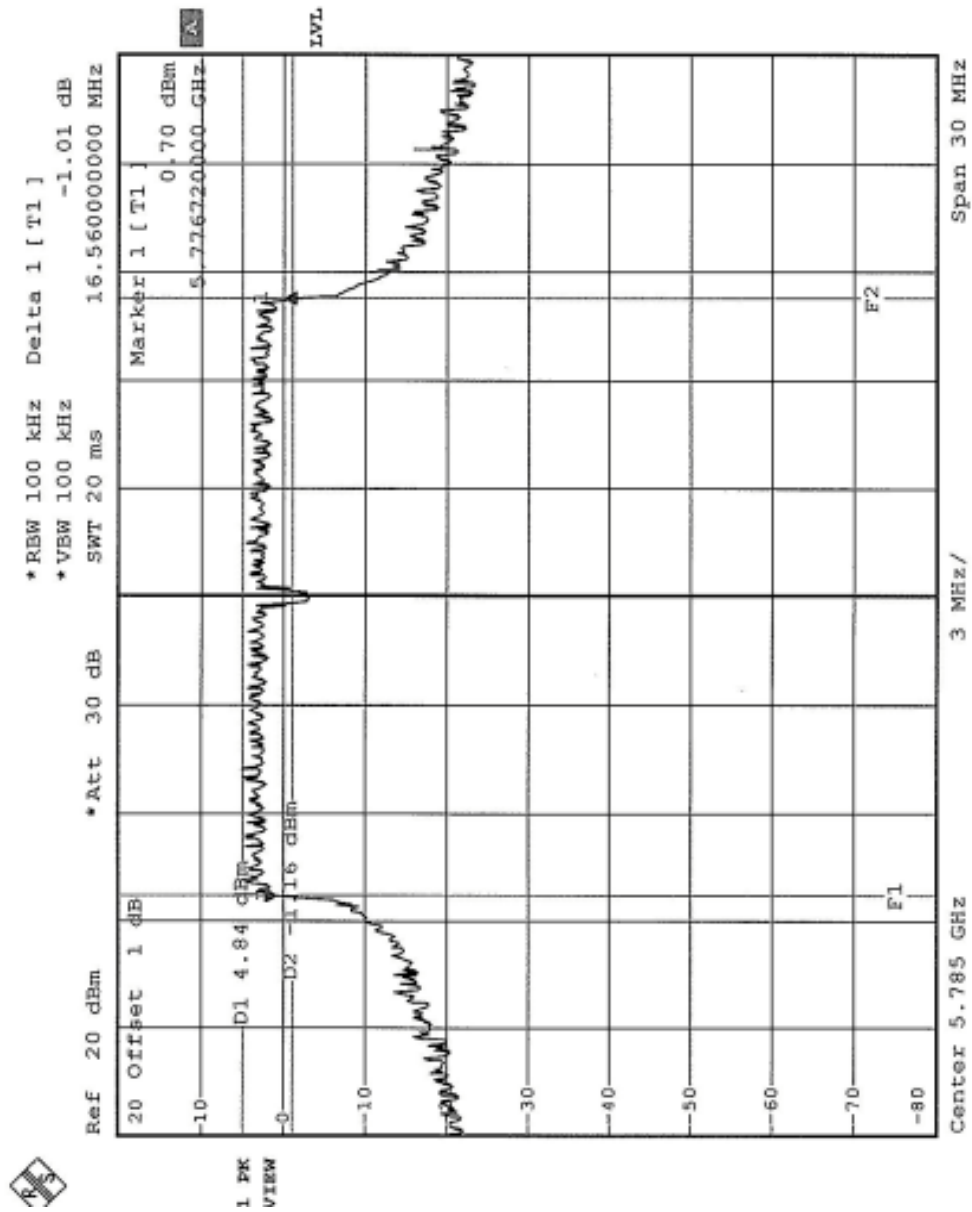
D2 -1.09 dBm

Marker 1 [T1]
-0.01 dBm
5.736720000 GHz

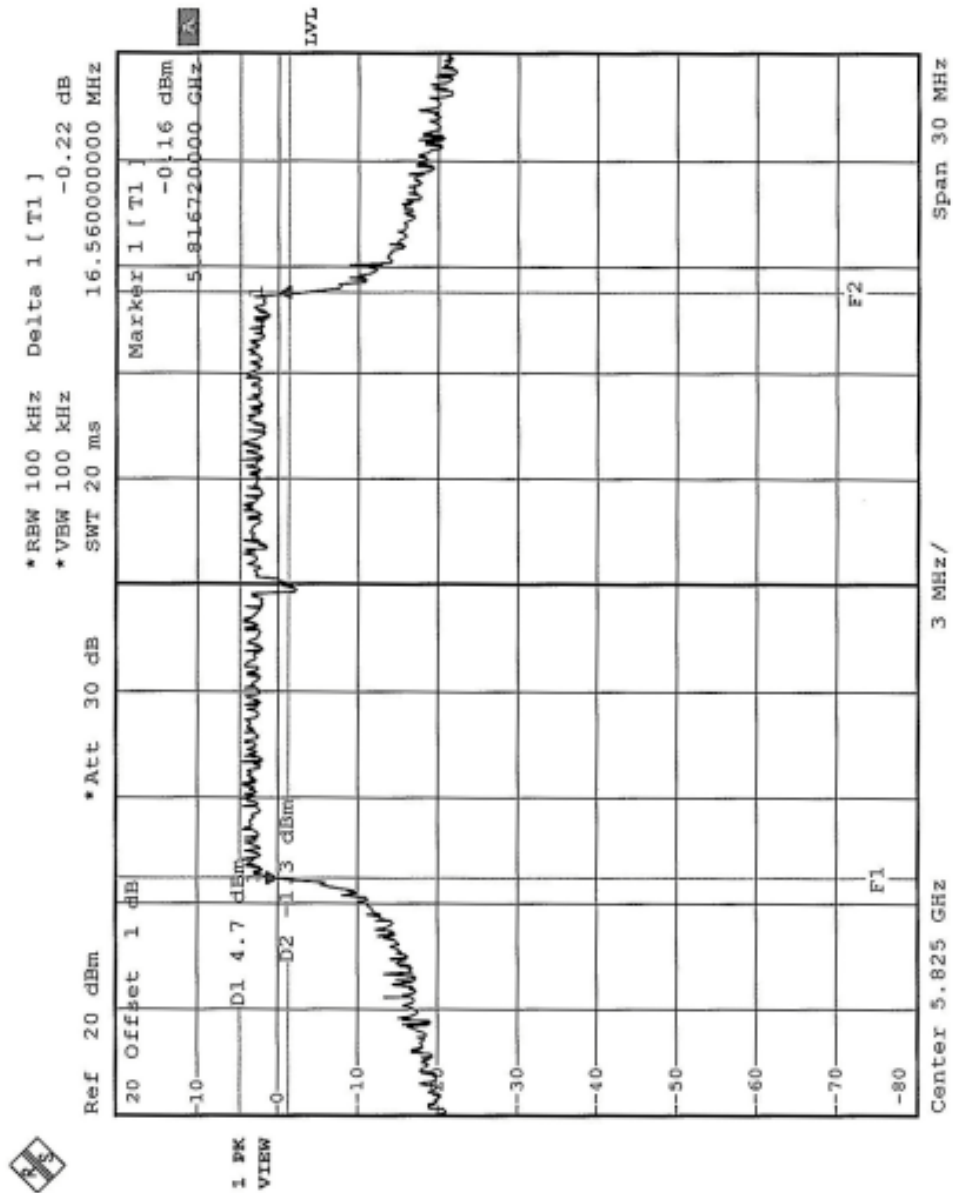
LVL

Center 5.745 GHz 3 MHz/ Span 30 MHz

CH11



CH13





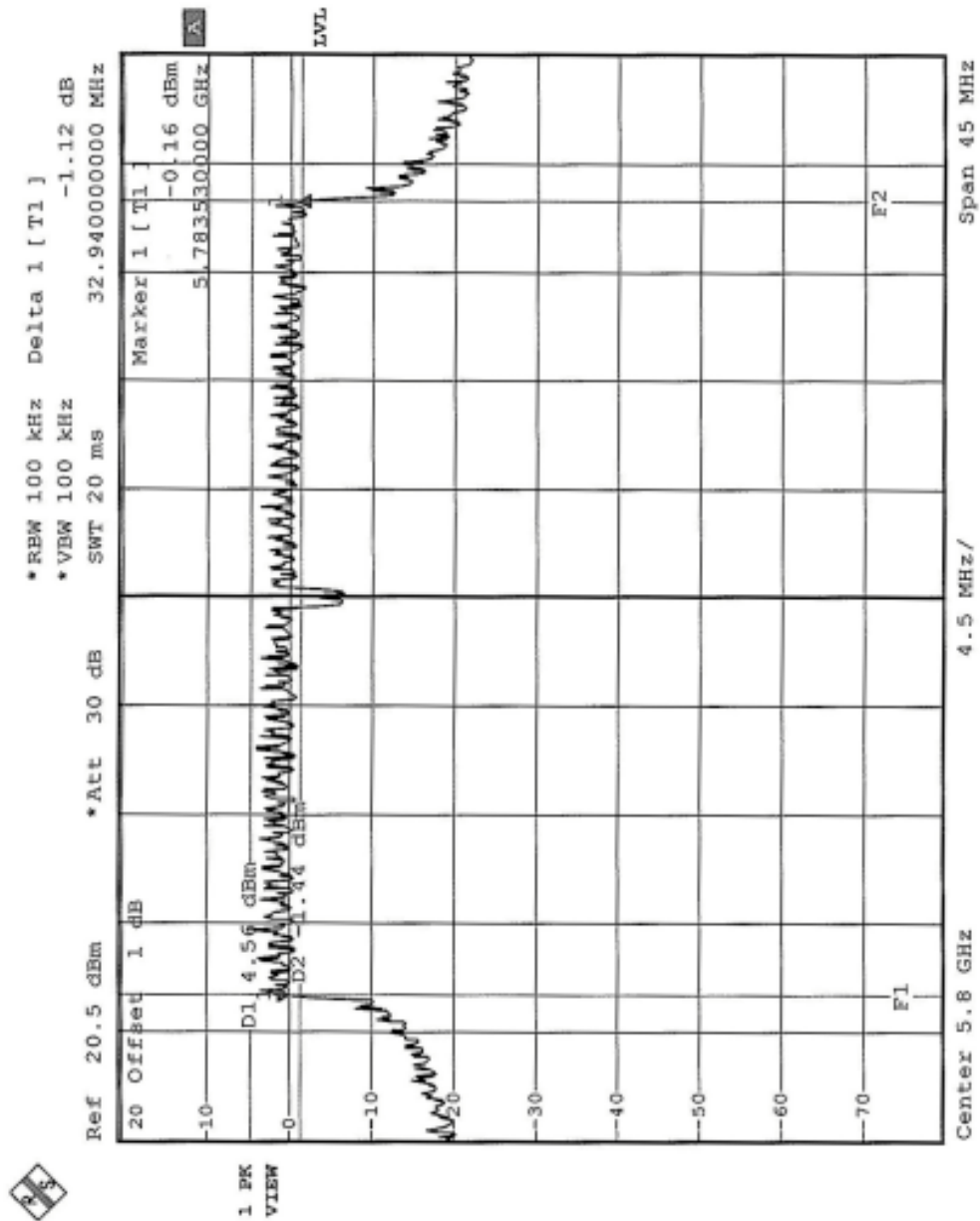
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 56%RH, 974 hPa
TEST MODE	Turbo	TEST BY	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
4	5760	33.12	0.5	PASS
5	5800	32.94	0.5	PASS

*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz
 Span 45 MHz
 Ref 20.5 dBm *Att 30 dB
 Center 5.76 GHz
 4.5 MHz/
 Span 45 MHz

20 Offset 1 dB
 D1 -1.58 dBm
 D2 -1.58 dBm
 F1
 F2
 Marker 1 [T1]
 -0.05 dBm
 5.74340000 GHz
 LVL

CH5



5.9 MAXIMUM PEAK OUTPUT POWER

5.9.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.9.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 2004
NARDA DETECTOR	4503A	FSCM99899	NA

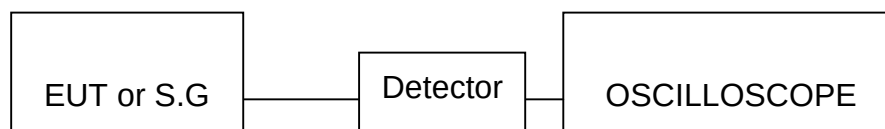
NOTE:

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

5.9.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the peak response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

5.9.4 TEST SETUP



5.9.5 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



5.9.6 TEST RESULTS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 974 hPa
TEST MODE	Normal	TEST BY	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
9	5745	20.08	30	PASS
11	5785	20.4	30	PASS
13	5825	21.0	30	PASS

EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 974 hPa
TEST MODE	Turbo	TEST BY	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
4	5760	20.3	30	PASS
5	5800	20.1	30	PASS



5.9.7 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.9.8 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 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.

5.9.9 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.

5.9.10 DEVIATION FROM TEST STANDARD

No deviation

5.9.11 TEST SETUP



5.9.12 EUT OPERATING CONDITION

Same as Item 4.3.6

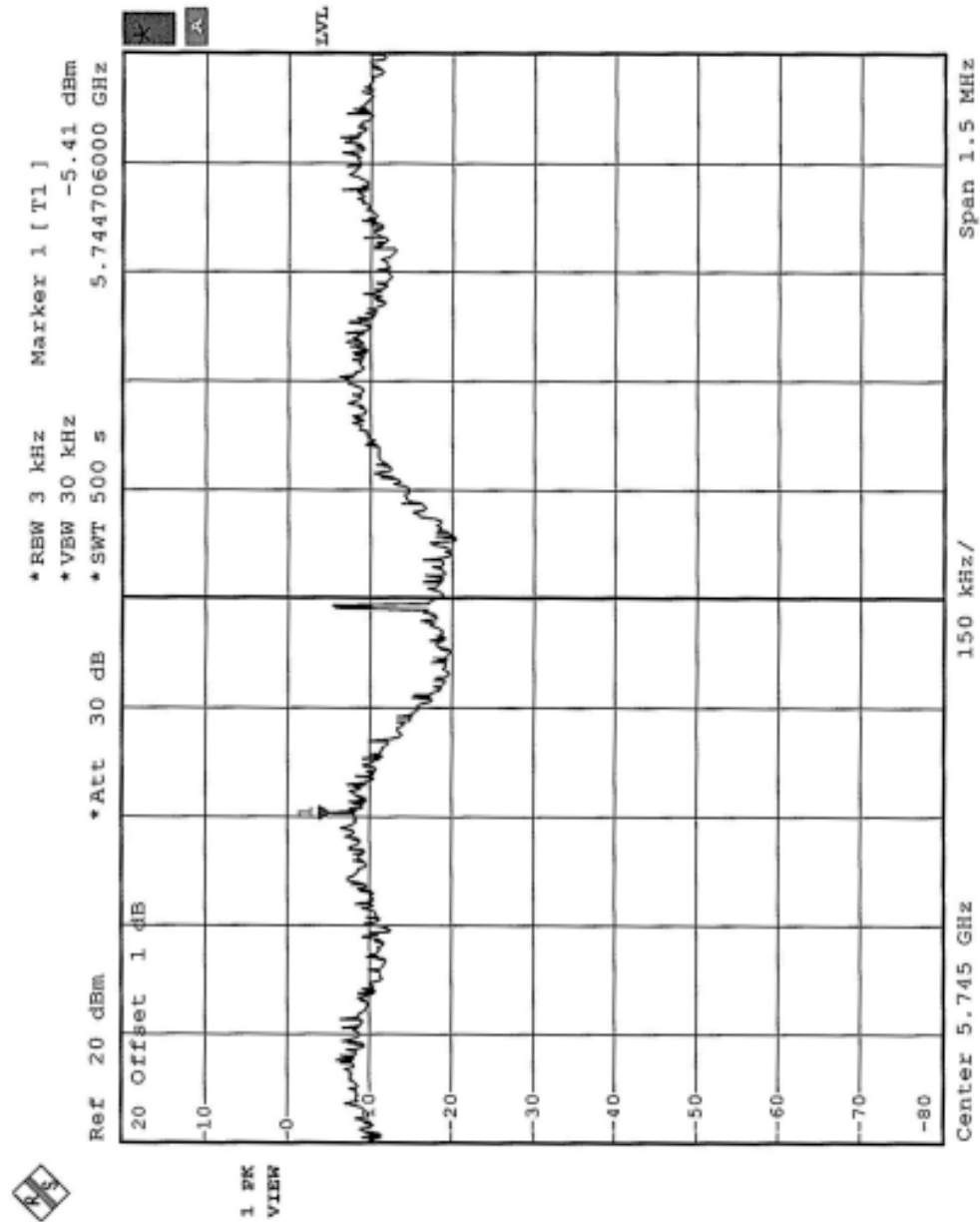


5.9.13 TEST RESULTS

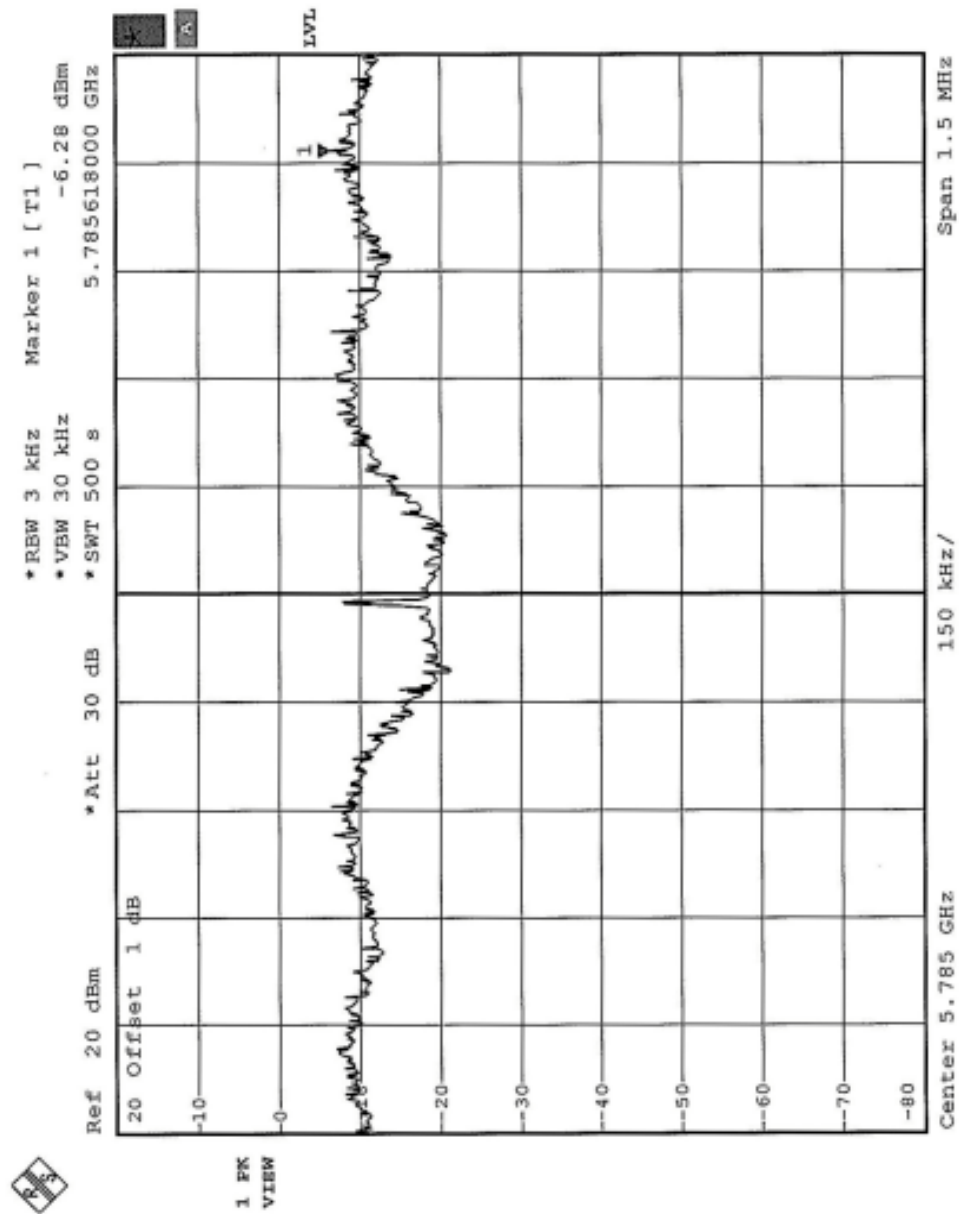
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	57deg. C, 56%RH, 974 hPa
TEST MODE	Normal	TEST BY	Hank Chung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
9	5745	-5.41	8	PASS
11	5785	-6.28	8	PASS
13	5825	-6.10	8	PASS

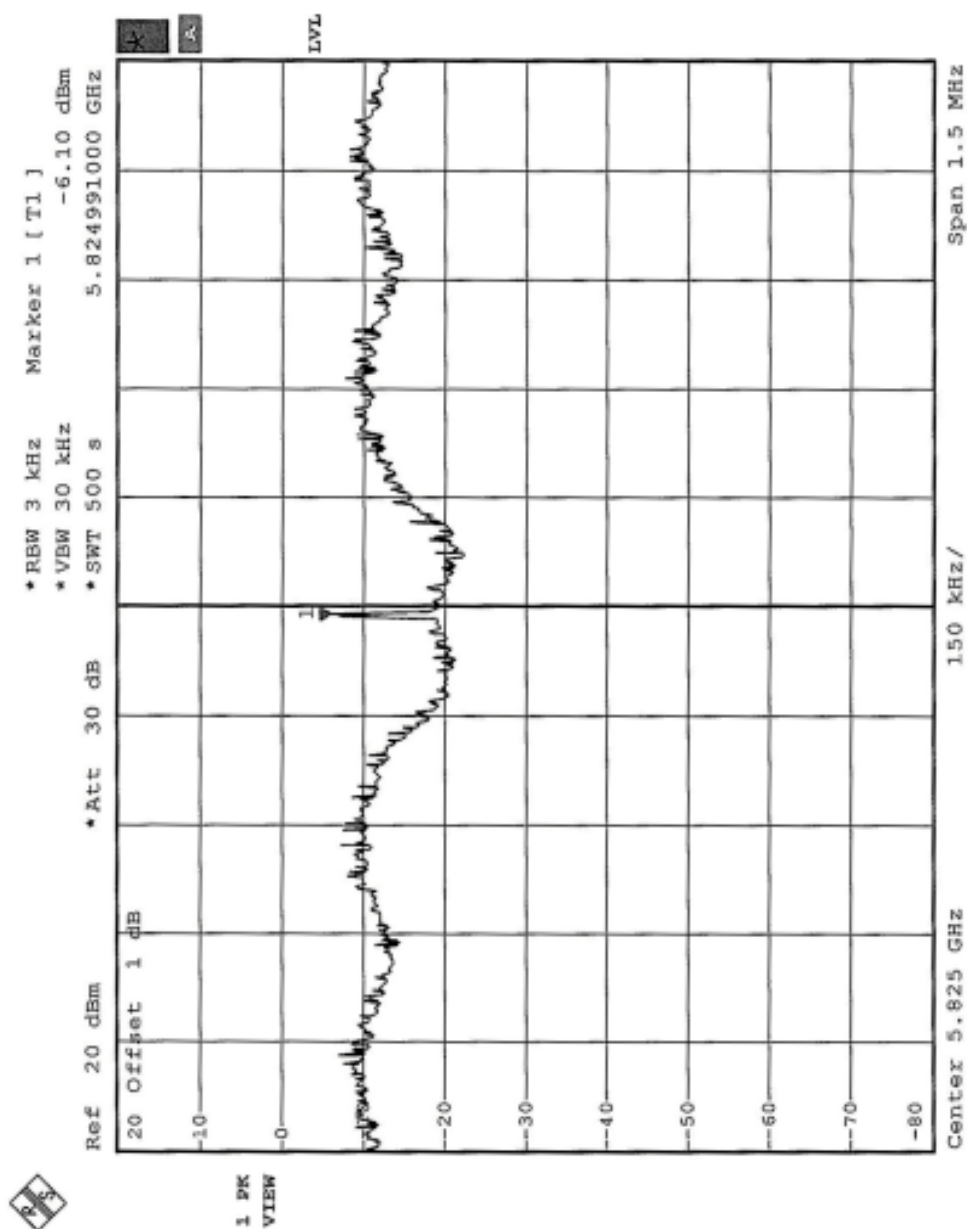
CH9



CH11



CH13

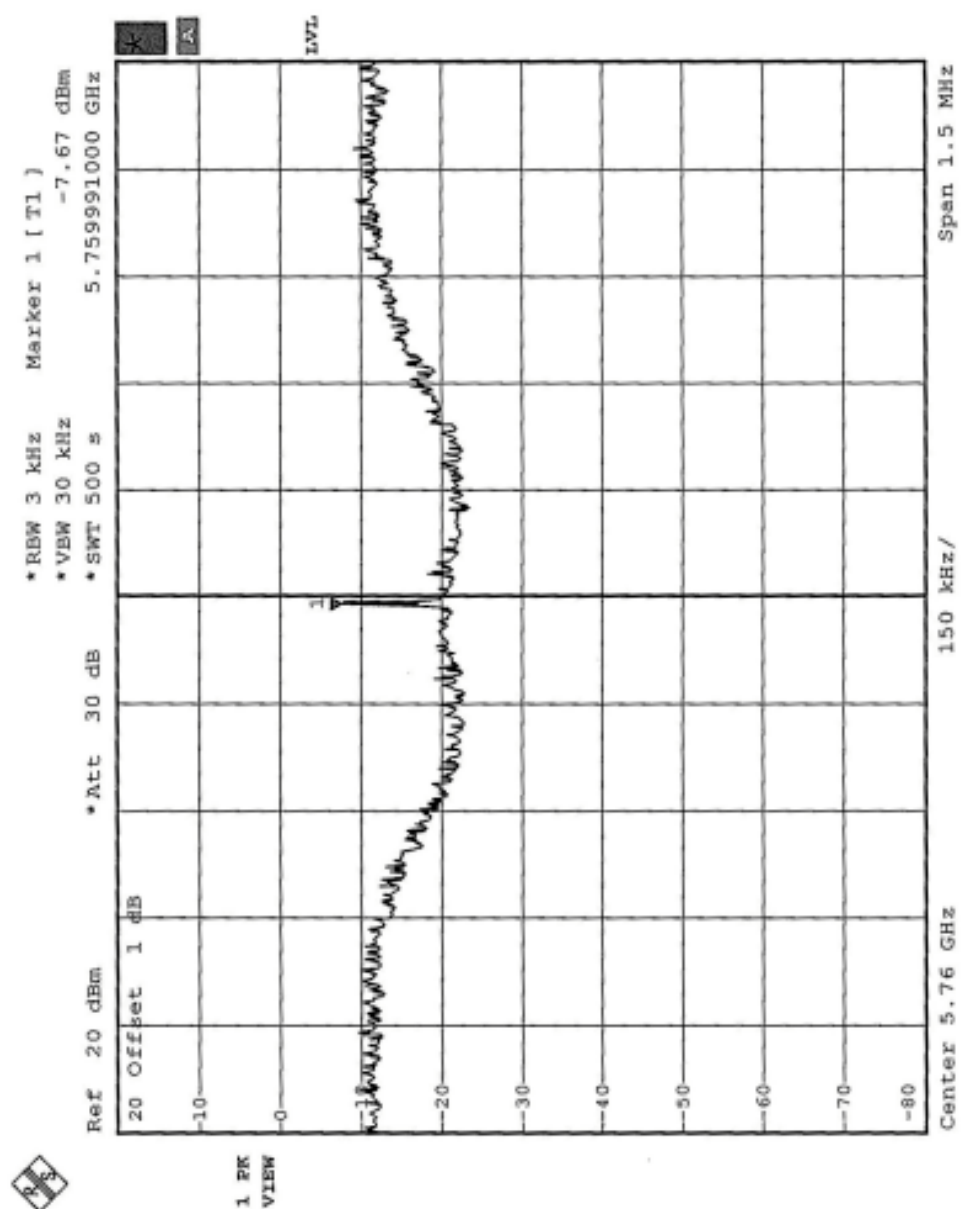




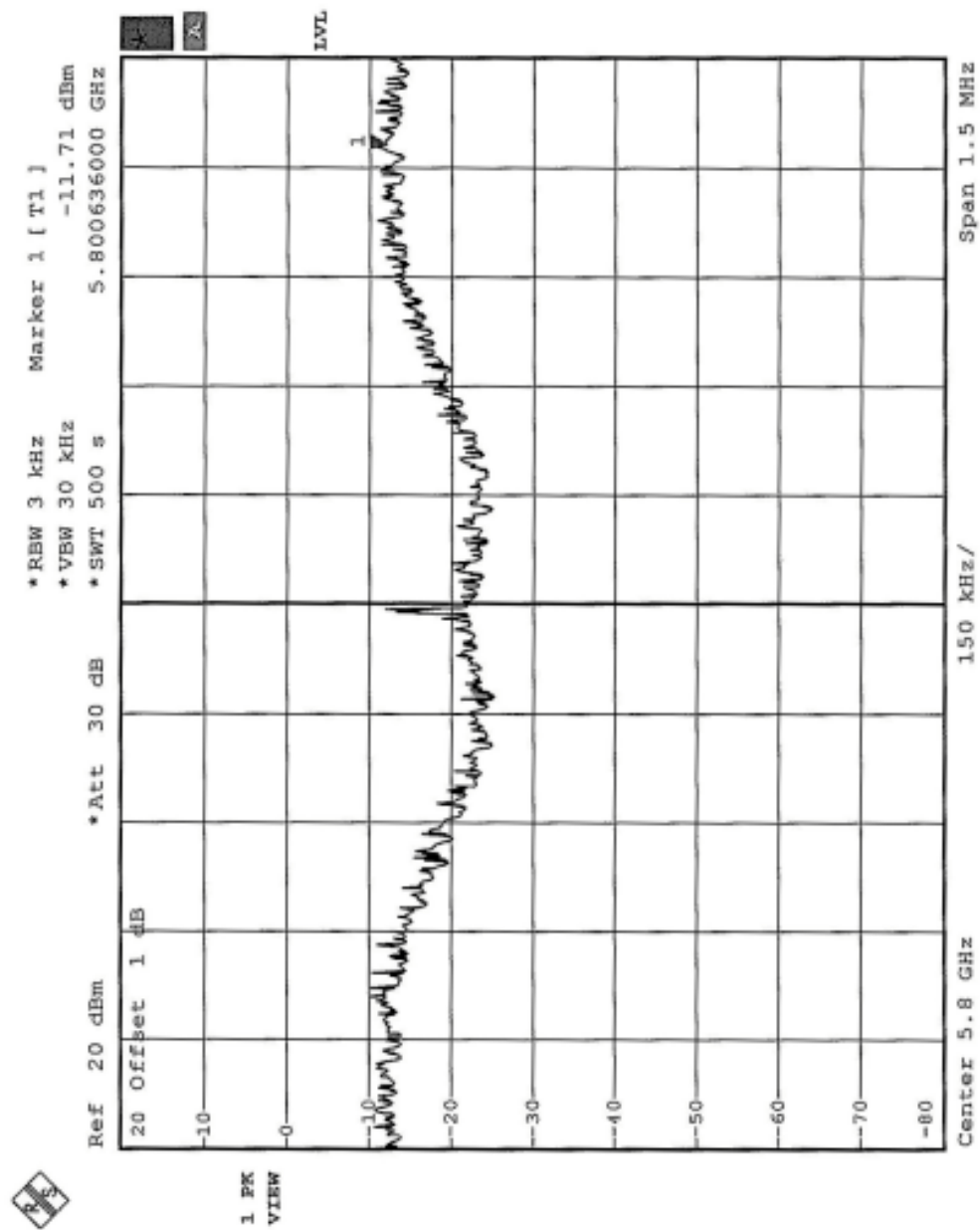
EUT	Wireless Dual Band Enterprise Access Point	MODEL	RBT3K-AG
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	57deg. C, 56%RH, 974 hPa
TEST MODE	Turbo	TEST BY	Hank Chung

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
4	5760	-7.67	8	PASS
5	5800	-11.71	8	PASS

CH4



CH5



5.10 BAND EDGES MEASUREMENT

5.10.1 LIMITS OF BAND EDGES MEASUREMENT

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

5.10.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 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.

5.10.3 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.

5.10.4 DEVIATION FROM TEST STANDARD

No deviation



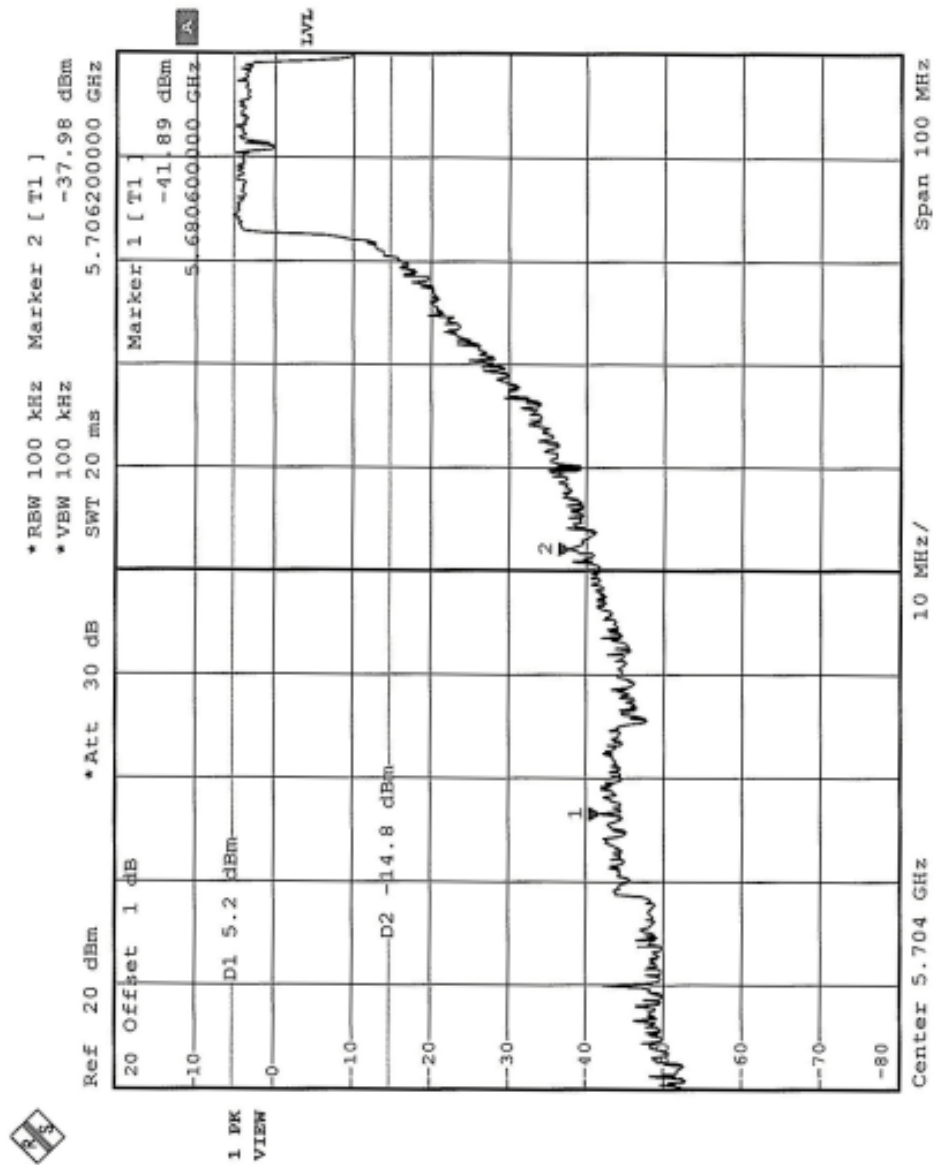
5.10.5 EUT OPERATING CONDITION

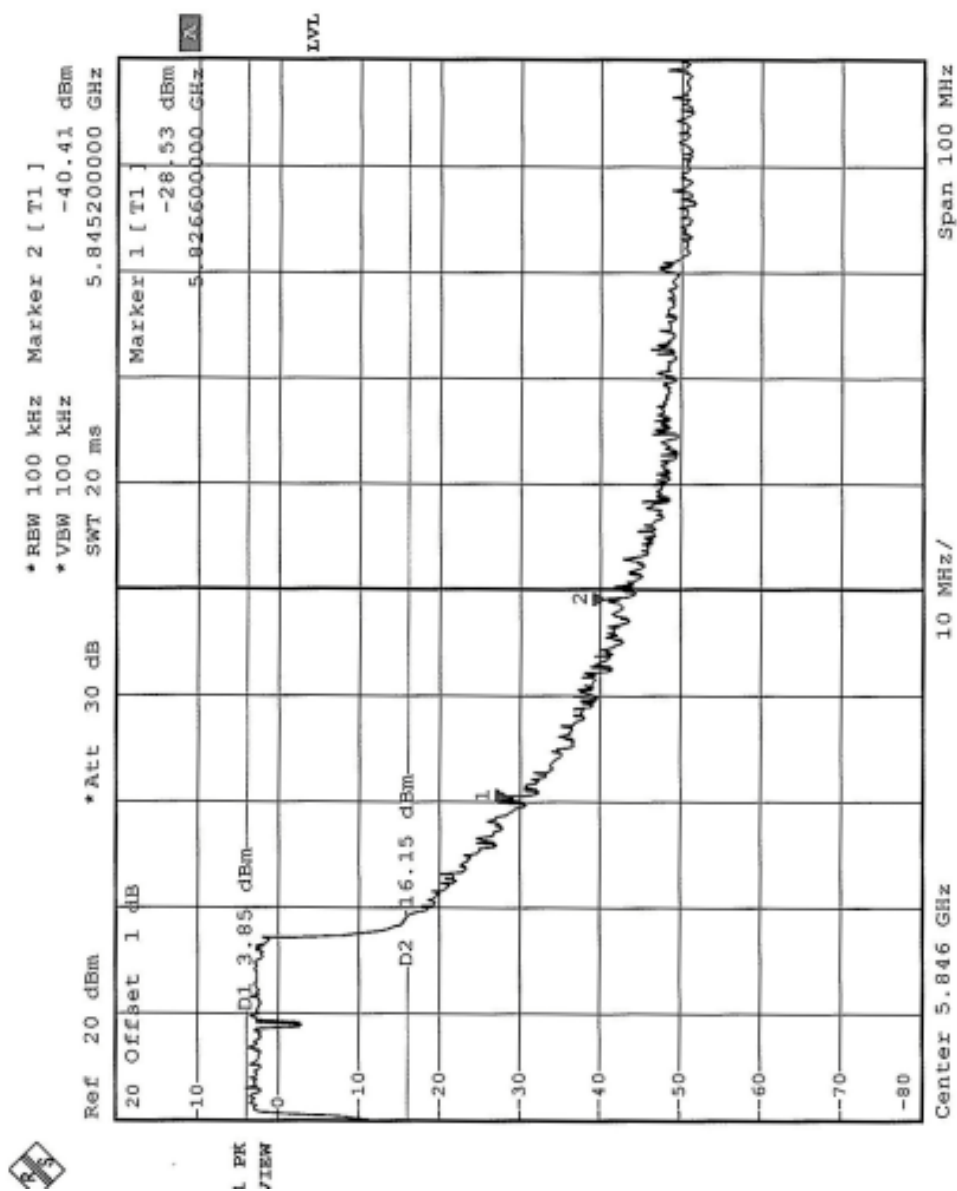
Same as Item 4.3.6

5.10.6 TEST RESULTS

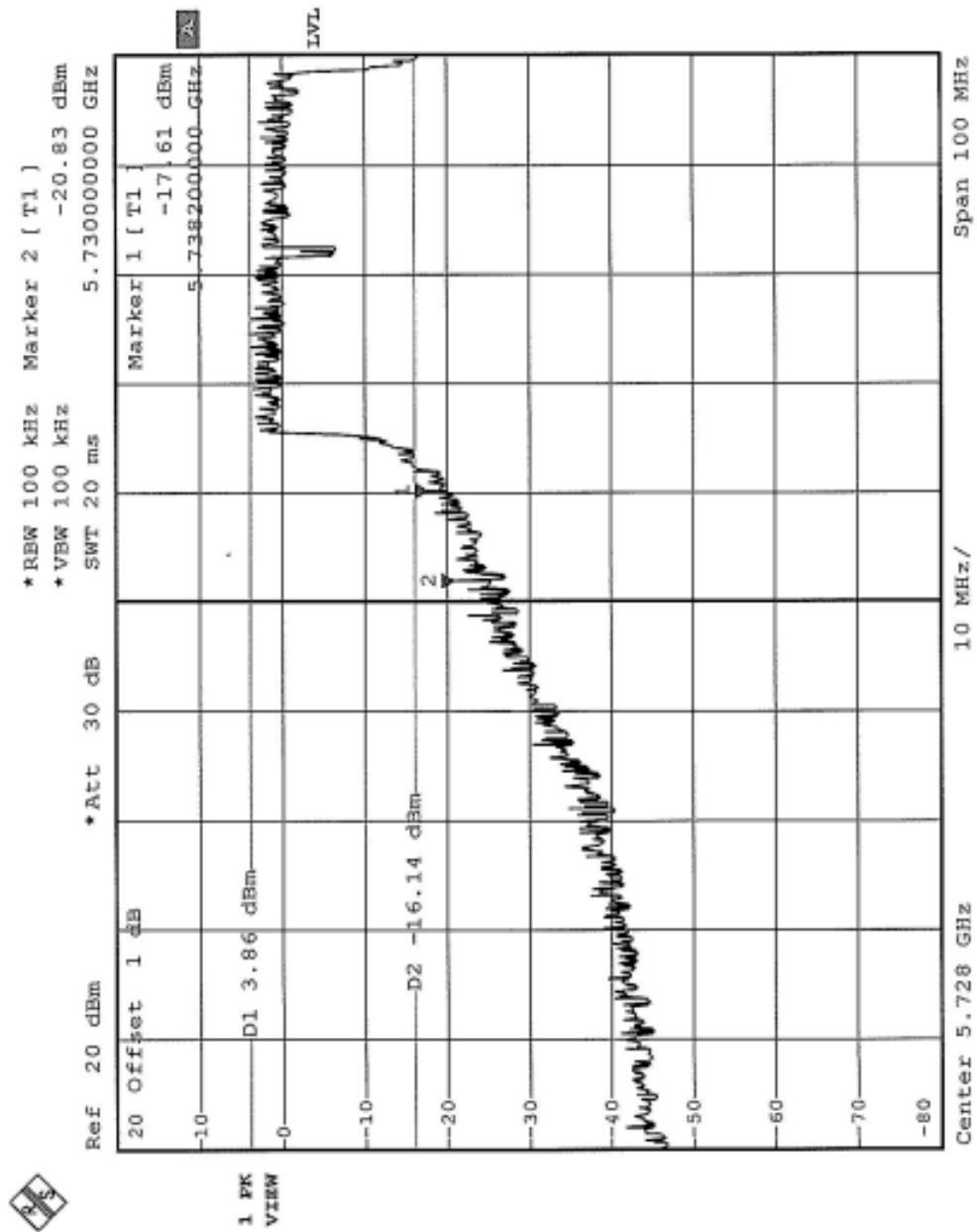
The spectrum plots are attached on the following pages. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(C).

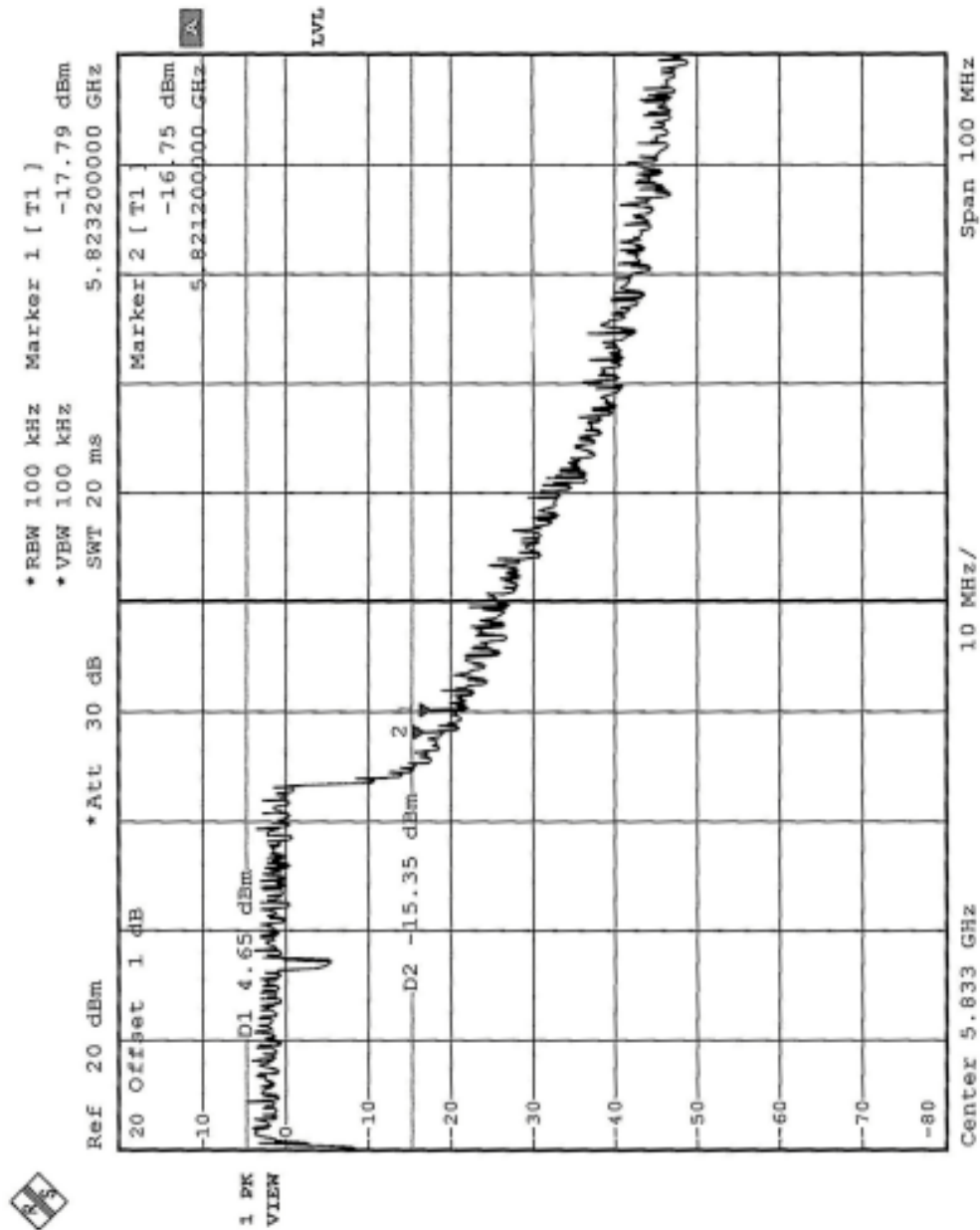
Normal Mode





Turbo Mode







5.11 ANTENNA REQUIREMENT

5.11.1 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.

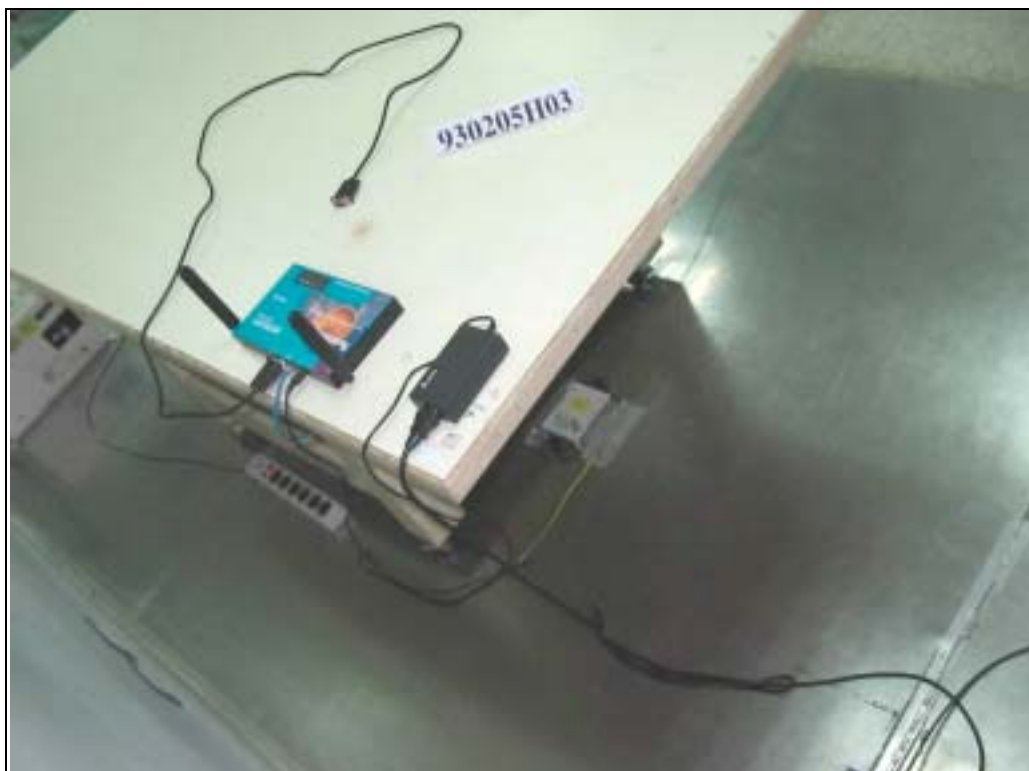
And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.11.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Dual-Band Omni-Directional Antenna with MMCX R/A Plug connector. The maximum Gain of the antenna is 4.5dBi.

6. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST (With Adapter)



CONDUCTED EMISSION TEST (With POE)



RADIATED EMISSION TEST (With Adapter)



RADIATED EMISSION TEST (With POE)





7. 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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Fax: 886-35-935342

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Tel: 886-3-3270910

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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.