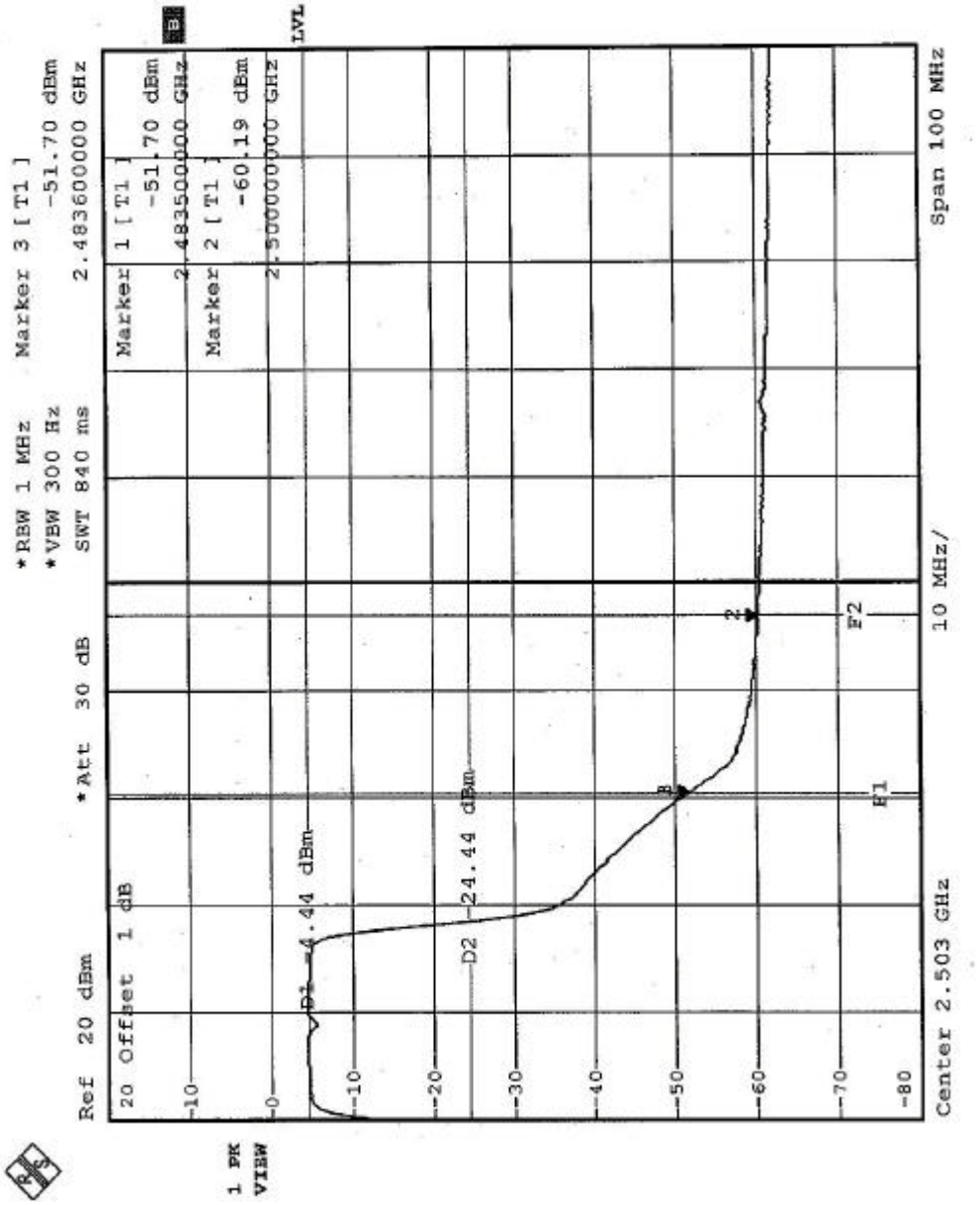

Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 Hz
SWT 840 ms
Marker 3 [T1]
-51.70 dBm
2.483600000 GHz
Marker 1 [T1]
-51.70 dBm
2.483500000 GHz
Marker 2 [T1]
-60.19 dBm
2.500000000 GHz
LVL
D1 -4.44 dBm
D2 -24.44 dBm
F1
F2
1 PK
VIBW
Center 2.503 GHz
10 MHz/
Span 100 MHz

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 PIFA Antenna with MMCX connector. The maximum Gain of the antenna is 0.02dBi.

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 (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.

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.

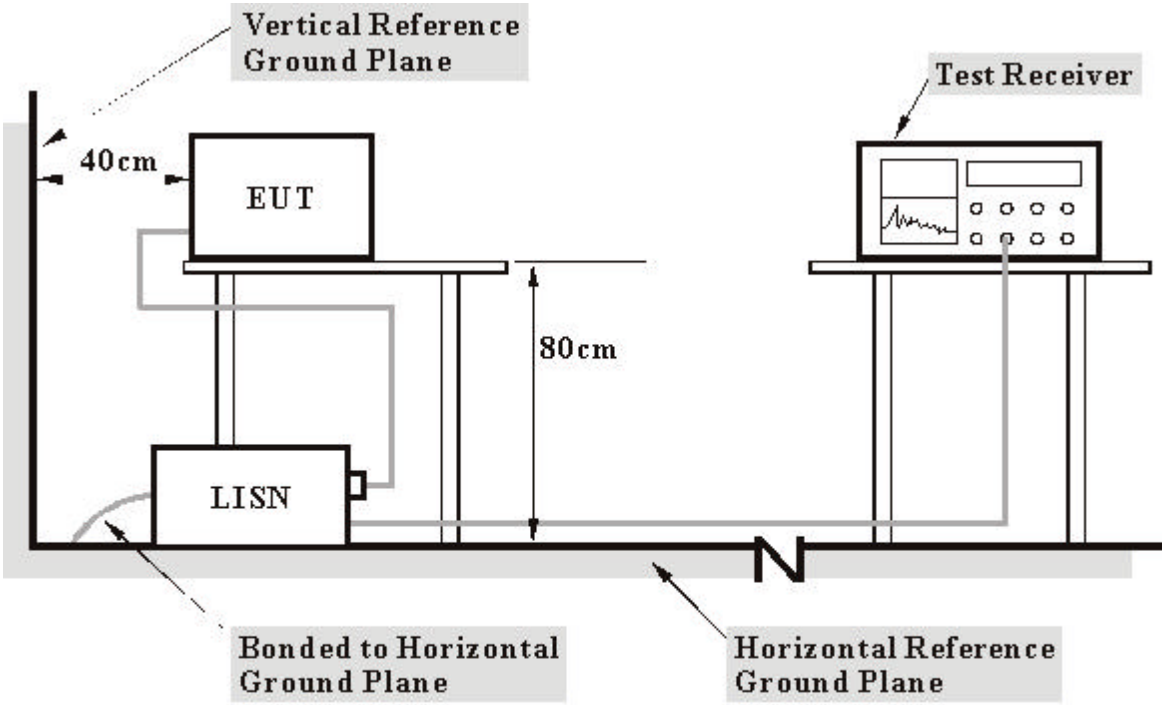
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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

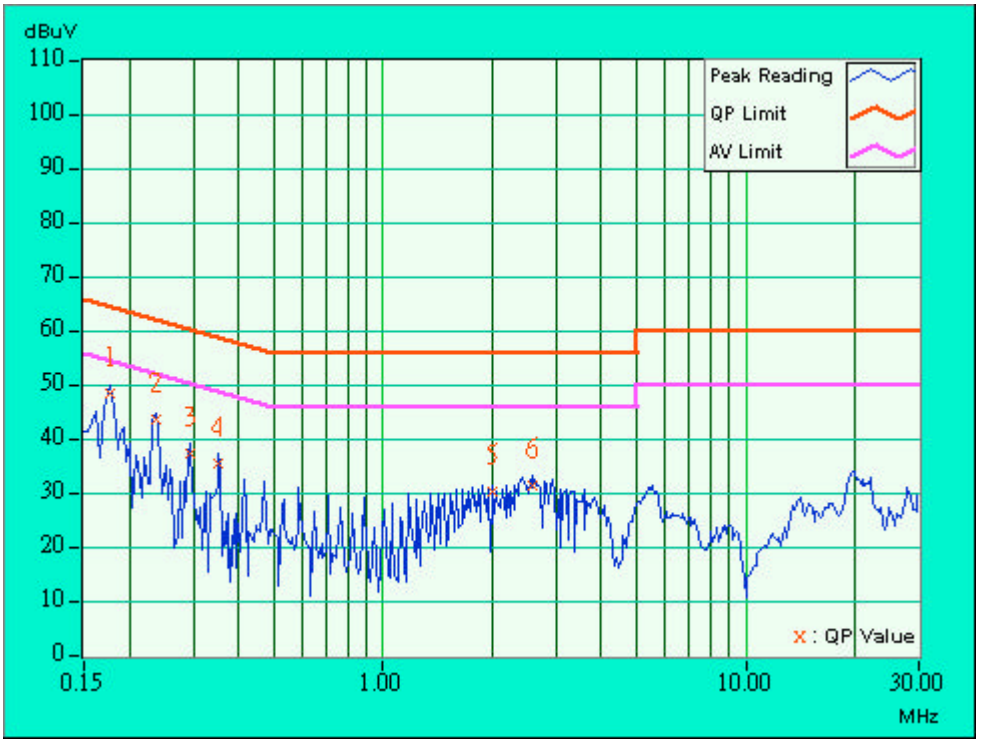
Same as 4.1.6.

5.1.7 TEST RESULTS

EUT	Wireless miniPCI 802.11 a/g/b adapter		
MODEL	WN6401C	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	27deg. C, 60RH, 966 hPa	**TESTED BY**	Tony Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.177**	**0.20**	**48.17**	**-**	**48.37**	**-**	**64.61**	**54.61**	**-16.24**	**-**
2	0.236	0.20	43.54	-	43.74	-	62.24	52.24	-18.50	-
3	0.295	0.20	36.97	-	37.17	-	60.40	50.40	-23.23	-
4	0.353	0.20	35.06	-	35.26	-	58.89	48.89	-23.63	-
5	2.005	0.30	30.01	-	30.31	-	56.00	46.00	-25.69	-
6	2.599	0.33	31.22	-	31.55	-	56.00	46.00	-24.45	-

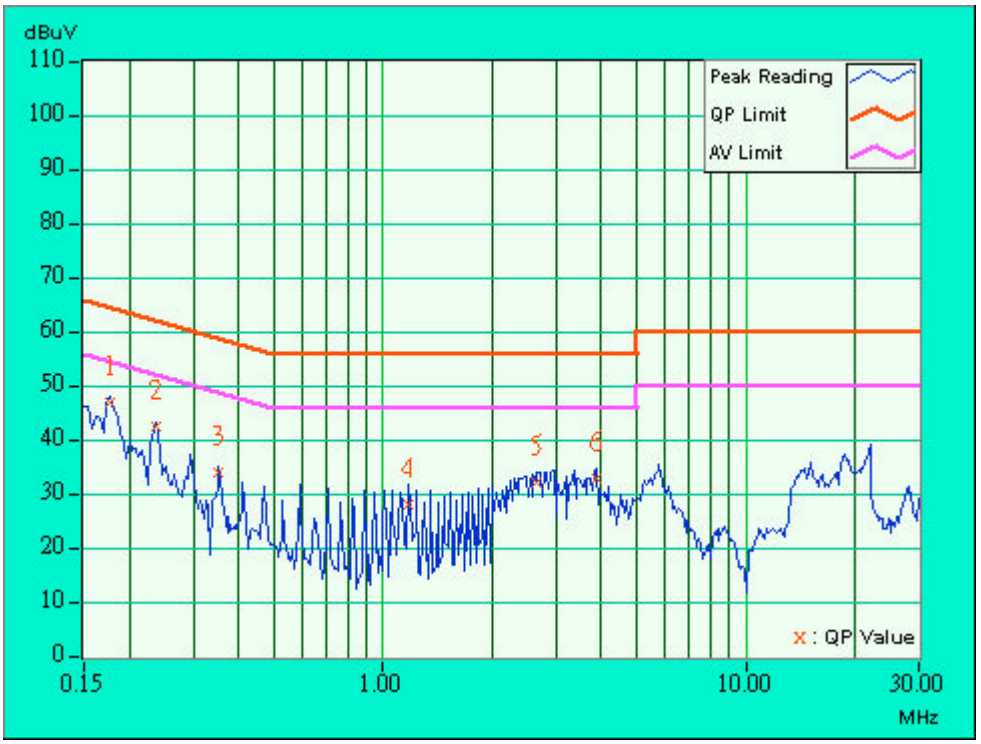
NOTES: (1) "*": Undetectable
(2) Q.P. and AV. are abbreviations of quasi-peak and average.
(3) "-": The Quasi-peak reading value also meets an average limit, thus measurement with the average detector is unnecessary.
(4) The emission levels of other frequencies were very low against the limit.
(5) Correction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



EUT	Wireless miniPCI 802.11 a/g/b adapter		
MODEL	WN6401C	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	27deg. C, 60RH, 966 hPa	**TESTED BY**	Tony Chen

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.20	46.73	-	46.93	-	64.61	54.61	-17.68	-
2	0.236	0.20	42.15	-	42.35	-	62.24	52.24	-19.89	-
3	0.353	0.20	33.76	-	33.96	-	58.89	48.89	-24.93	-
4	1.181	0.30	27.63	-	27.93	-	56.00	46.00	-28.07	-
5	2.658	0.33	31.99	-	32.32	-	56.00	46.00	-23.68	-
6	3.895	0.39	32.56	-	32.95	-	56.00	46.00	-23.05	-

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

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

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 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.

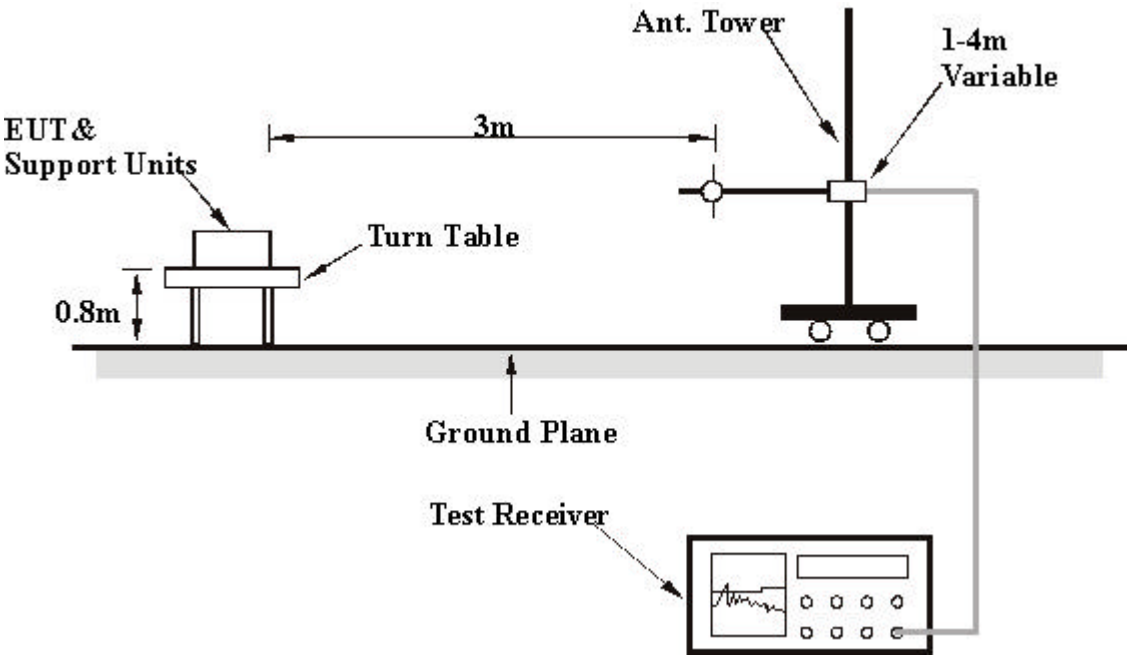
NOTE:

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 miniPCI 802.11 a/g/b adapter		
FREQUENCY RANGE	Below 1000MHz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24 deg. C, 57%RH, 966 hPa	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
MODEL	WN6401C	**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	**69.00**	**36.8 QP**	**40.00**	**-3.20**	**1.39 H**	**245**	**31.00**	**5.80**
2	134.32	37.8 QP	43.50	-5.70	1.54 H	24	26.10	11.70
3	156.00	25.8 QP	43.50	-17.70	1.07 H	55	15.20	10.50
4	168.70	35.1 QP	43.50	-8.40	1.43 H	2	25.30	9.80
5	200.23	32.2 QP	43.50	-11.30	1.75 H	216	23.30	9.00
6	234.82	31.2 QP	46.00	-14.80	1.01 H	298	20.00	11.20
7	352.00	24.7 QP	46.00	-21.30	1.96 H	359	9.20	15.50
8	492.14	29.1 QP	46.00	-16.90	1.85 H	97	10.00	19.10
9	504.11	30.7 QP	46.00	-15.30	1.52 H	3	11.40	19.30
10	533.14	24.9 QP	46.00	-21.10	1.19 H	274	5.10	19.80

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	65.20	34.5 QP	40.00	-5.50	1.12 V	140	29.20	5.30
2	159.68	20.7 QP	43.50	-22.80	1.21 V	320	10.40	10.30
3	171.01	28.7 QP	43.50	-14.80	1.09 V	66	19.10	9.60
4	200.13	32.6 QP	43.50	-10.90	1.55 V	9	23.60	9.00
5	236.01	29.2 QP	46.00	-16.80	1.13 V	312	17.90	11.30
6	291.31	27.3 QP	46.00	-18.70	1.01 V	21	13.20	14.00
7	299.00	34.2 QP	46.00	-11.80	1.34 V	328	20.00	14.20
8	330.20	34.1 QP	46.00	-11.90	1.54 V	297	19.20	14.90
9	420.26	30.9 QP	46.00	-15.10	1.74 V	58	13.10	17.80
10	462.13	34.4 QP	46.00	-11.60	1.43 V	264	16.00	18.40

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.

5.2.9 TEST RESULTS (A)

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	1
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	55.2 PK	74.00	-18.80	1.05 H	214	18.10	37.00
1	#5150.00	46.8 AV	54.00	-7.20	1.05 H	214	9.80	37.00
2	*5180.00	90.1 PK			1.10 H	2	53.00	37.00
2	*5180.00	82.0 AV			1.10 H	2	44.90	37.00
3	10360.00	52.4 PK	68.30	-15.90	1.48 H	10	7.70	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	#5150.00	53.9 PK	74.00	-20.10	1.35 V	241	16.90	37.00
1	#5150.00	44.2 AV	54.00	-9.80	1.35 V	241	7.20	37.00
2	*5180.00	89.9 PK			1.08 V	32	52.90	37.00
2	*5180.00	81.9 AV			1.08 V	32	44.90	37.00
3	10360.00	52.9 PK	68.30	-15.40	1.31 V	27	8.20	44.70

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	4
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	49.0 PK	74.00	-25.00	1.02 H	33	12.00	37.00
2	*5240.00	90.3 PK			1.50 H	2	53.30	37.00
2	*5240.00	83.0 AV			1.50 H	2	46.00	37.00
3	10480.00	56.8 PK	68.30	-11.50	1.35 H	24	11.90	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	#5150.00	48.9 PK	74.00	-25.10	1.36 V	252	11.90	37.00
2	*5240.00	90.1 PK			1.10 V	358	53.10	37.00
2	*5240.00	82.1 AV			1.10 V	358	45.10	37.00
3	10480.00	54.1 PK	68.30	-14.20	1.30 V	2	9.10	45.00

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	5
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	45.3 PK	74.00	-28.70	1.08 H	299	8.30	37.00
2	*5260.00	90.0 PK			1.42 H	29	53.00	37.00
2	*5260.00	81.8 AV			1.42 H	29	44.80	37.00
3	10520.00	51.2 PK	68.30	-17.10	1.20 H	30	6.00	45.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT3 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	#5150.00	45.3 PK	74.00	-28.70	1.08 V	299	8.30	37.00
2	*5260.00	90.0 PK			1.42 V	29	53.00	37.00
2	*5260.00	81.8 AV			1.42 V	29	44.80	37.00
3	10520.00	51.2 PK	68.30	-17.10	1.20 V	30	6.00	45.20

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	8
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	*5320.00	91.2 PK			1.12 H	31	54.20	37.00
1	*5320.00	82.7 AV			1.12 H	31	45.70	37.00
2	#5350.00	52.4 PK	74.00	-21.60	1.54 H	2	15.30	37.00
2	#5350.00	44.9 AV	54.00	-9.10	1.54 H	2	7.90	37.00
3	#10640.00	53.6 PK	74.00	-20.40	1.49 H	60	7.30	46.30
3	#10640.00	44.1 AV	54.00	-9.90	1.49 H	60	-2.20	46.30

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	*5320.00	90.3 PK			1.45 V	31	53.20	37.00
1	*5320.00	82.0 AV			1.45 V	31	45.00	37.00
2	#5350.00	53.1 PK	74.00	-20.90	1.12 V	30	16.00	37.00
2	#5350.00	44.3 AV	54.00	-9.70	1.12 V	30	7.30	37.00
3	#10640.00	55.2 PK	74.00	-18.80	1.38 V	31	8.90	46.30
3	#10640.00	43.5 AV	54.00	-10.50	1.38 V	31	-2.80	46.30

NOTE:

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

5.

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	1
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	55.5 PK	74.00	-18.50	1.30 H	62	18.50	37.00
1	#5150.00	44.2 AV	54.00	-9.80	1.30 H	62	7.20	37.00
2	*5210.00	85.2 PK			1.10 H	18	48.10	37.00
2	*5210.00	77.1 AV			1.10 H	18	40.10	37.00
3	10420.00	52.0 PK	68.30	-16.30	1.54 H	21	7.20	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	#5150.00	55.5 PK	74.00	-18.50	1.02 V	1	18.50	37.00
1	#5150.00	44.2 AV	54.00	-9.80	1.02 V	1	7.20	37.00
2	*5210.00	87.4 PK			1.54 V	21	50.30	37.00
2	*5210.00	77.1 AV			1.54 V	21	40.00	37.00
3	10420.00	54.0 PK	68.30	-14.30	1.35 V	24	9.20	44.80

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	2
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	50.2 PK	74.00	-23.80	1.11 H	231	13.20	37.00
2	*5250.00	86.7 PK			1.02 H	21	49.70	37.00
2	*5250.00	78.2 AV			1.02 H	21	41.20	37.00
3	10500.00	54.3 PK	68.30	-14.00	1.09 H	12	9.30	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	#5150.00	51.2 PK	74.00	-22.80	1.01 V	269	14.20	37.00
1	#5150.00	41.6 AV	54.00	-12.40	1.01 V	269	4.50	37.00
2	*5250.00	86.7 PK			1.03 V	21	49.60	37.00
2	*5250.00	77.2 AV			1.03 V	21	40.20	37.00
3	10500.00	52.2 PK	68.30	-16.10	1.55 V	2	7.20	45.00

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	3
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	*5290.00	86.2 PK			1.32 H	52	49.10	37.00
1	*5290.00	77.6 AV			1.32 H	52	40.60	37.00
2	#5350.00	52.3 PK	74.00	-21.70	1.60 H	97	15.30	37.00
2	#5350.00	42.0 AV	54.00	-12.00	1.60 H	97	5.00	37.00
3	10580.00	53.1 PK	68.30	-15.20	1.40 H	111	7.40	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	*5290.00	85.9 PK			1.00 V	9	48.90	37.00
1	*5290.00	77.0 AV			1.00 V	9	40.00	37.00
2	#5350.00	52.7 PK	74.00	-21.30	1.10 V	37	15.70	37.00
2	#5350.00	41.2 AV	54.00	-12.80	1.10 V	37	4.10	37.00
3	10580.00	55.6 PK	68.30	-12.70	1.43 V	11	9.90	45.70

NOTE:

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

5.2.10 TEST RESULTS (B)

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	1
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	52.7 PK	74.00	-21.30	1.57 H	87	15.60	37.00
1	#5150.00	43.7 AV	54.00	-10.30	1.57 H	87	6.60	37.00
2	*5180.00	90.0 PK			1.28 H	42	53.00	37.00
2	*5180.00	80.0 AV			1.28 H	42	43.00	37.00
3	10360.00	52.6 PK	68.30	-15.70	1.22 H	280	7.90	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	#5150.00	54.9 PK	74.00	-19.10	1.00 V	93	17.80	37.00
1	#5150.00	45.8 AV	54.00	-8.20	1.00 V	93	8.80	37.00
2	*5180.00	90.0 PK			1.30 V	158	53.00	37.00
2	*5180.00	81.9 AV			1.30 V	158	44.90	37.00
3	10360.00	50.7 PK	68.30	-17.60	1.01 V	32	6.00	44.70

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	4
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	49.7 PK	74.00	-24.30	1.54 H	81	12.70	37.00
2	*5240.00	89.6 PK			1.54 H	28	52.60	37.00
2	*5240.00	80.0 AV			1.54 H	28	43.00	37.00
3	10480.00	52.2 PK	68.30	-16.10	1.08 H	52	7.20	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	#5150.00	49.7 PK	74.00	-24.30	1.11 V	82	12.60	37.00
2	*5240.00	89.9 PK			1.09 V	74	52.90	37.00
2	*5240.00	80.3 AV			1.09 V	74	43.30	37.00
3	10480.00	54.2 PK	68.30	-14.10	1.37 V	9	9.30	45.00

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	5
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	47.7 PK	74.00	-26.30	1.20 H	59	10.70	37.00
2	*5260.00	90.0 PK			1.29 H	6	53.00	37.00
2	*5260.00	80.6 AV			1.29 H	6	43.60	37.00
3	10520.00	52.7 PK	68.30	-15.60	1.11 H	112	7.50	45.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT3 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	#5150.00	48.9 PK	74.00	-25.10	1.59 V	79	11.90	37.00
2	*5260.00	89.1 PK			1.63 V	88	52.10	37.00
2	*5260.00	81.0 AV			1.63 V	88	44.00	37.00
3	10520.00	54.1 PK	68.30	-14.20	1.74 V	172	8.90	45.20

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal Mode	**CHANNEL**	8
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	*5320.00	89.0 PK			1.39 H	6	52.00	37.00
1	*5320.00	80.5 AV			1.39 H	6	43.50	37.00
2	#5350.00	52.5 PK	74.00	-21.50	1.54 H	214	15.50	37.00
2	#5350.00	42.9 AV	54.00	-11.10	1.54 H	214	5.90	37.00
3	#10640.00	53.3 PK	74.00	-20.70	1.54 H	84	7.00	46.30
3	#10640.00	44.1 AV	54.00	-9.90	1.54 H	84	-2.20	46.30

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	*5320.00	90.8 PK			1.51 V	83	53.80	37.00
1	*5320.00	80.7 AV			1.51 V	83	43.70	37.00
2	#5350.00	53.8 PK	74.00	-20.20	1.63 V	321	16.80	37.00
2	#5350.00	44.2 AV	54.00	-9.80	1.63 V	321	7.20	37.00
3	#10640.00	53.8 PK	74.00	-20.20	1.28 V	91	7.50	46.30
3	#10640.00	43.6 AV	54.00	-10.40	1.28 V	91	-2.60	46.30

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	1
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	54.9 PK	74.00	-19.10	1.07 H	98	17.80	37.00
1	#5150.00	43.9 AV	54.00	-10.10	1.07 H	98	6.80	37.00
2	*5210.00	86.6 PK			1.54 H	24	49.60	37.00
2	*5210.00	78.9 AV			1.54 H	24	41.80	37.00
3	10420.00	52.4 PK	68.30	-15.90	1.53 H	329	7.50	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	#5150.00	50.9 PK	74.00	-23.10	1.60 V	121	13.90	37.00
2	*5210.00	86.9 PK			1.30 V	21	49.90	37.00
2	*5210.00	78.0 AV			1.30 V	21	41.00	37.00
3	10420.00	52.8 PK	68.30	-15.50	1.07 V	8	8.00	44.80

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	2
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	#5150.00	49.6 PK	74.00	-24.40	1.21 H	1	12.50	37.00
2	*5250.00	86.3 PK			1.08 H	55	49.30	37.00
2	*5250.00	78.2 AV			1.08 H	55	41.20	37.00
3	10500.00	52.0 PK	68.30	-16.30	1.64 H	215	7.00	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	#5150.00	49.6 PK	74.00	-24.40	1.08 V	59	12.50	37.00
2	*5250.00	86.3 PK			1.54 V	7	49.20	37.00
2	*5250.00	78.0 AV			1.54 V	7	41.00	37.00
3	10500.00	52.3 PK	68.30	-16.00	1.57 V	10	7.30	45.00

NOTE:

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

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo Mode	**CHANNEL**	3
FREQUENCY RANGE	1000 ~ 40000 MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	21deg. C, 58%RH, 966 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	*5290.00	86.1 PK			1.09 H	243	49.00	37.00
1	*5290.00	79.0 AV			1.09 H	243	42.00	37.00
2	#5350.00	53.0 PK	74.00	-21.00	1.23 H	8	16.00	37.00
2	#5350.00	42.6 AV	54.00	-11.40	1.23 H	8	5.60	37.00
3	10580.00	52.5 PK	68.30	-15.80	1.00 H	33	6.80	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	*5290.00	87.0 PK			1.65 V	21	50.00	37.00
1	*5290.00	78.0 AV			1.65 V	21	41.00	37.00
2	#5350.00	54.9 PK	74.00	-19.10	1.25 V	107	17.80	37.00
2	#5350.00	43.6 AV	54.00	-10.40	1.25 V	107	6.60	37.00
3	10580.00	53.5 PK	68.30	-14.80	1.03 V	33	7.80	45.70

NOTE:

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

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.

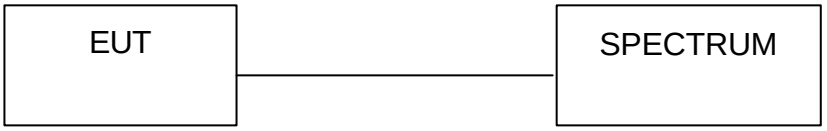
5.3.3 TEST PROCEDURE

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 30kHz.
4. Using the spectrum analyzer' s channel power measurement function to measure the output power.

5.3.4 DEVIATION FROM TEST STANDARD

No deviation

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

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

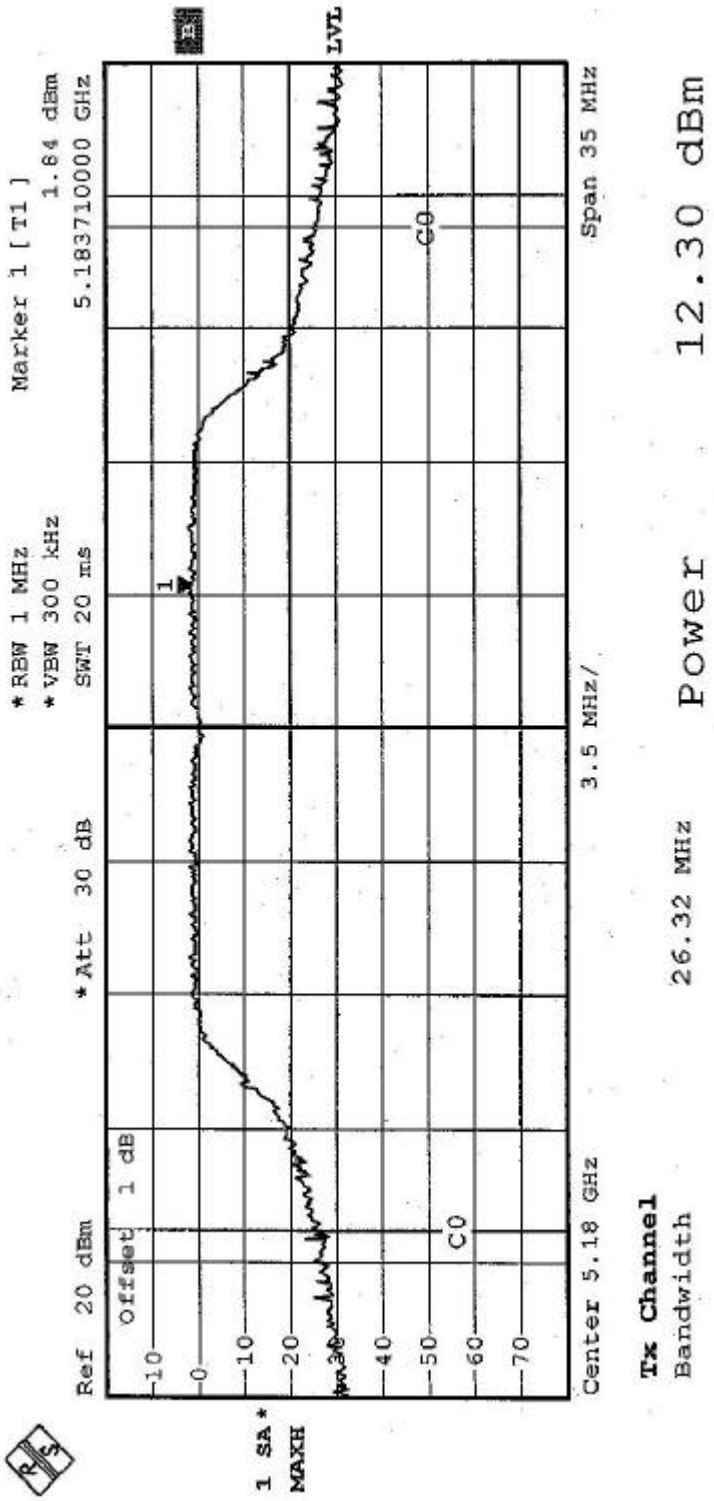
5.3.7 TEST RESULTS

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 966 hPa	**TESTED BY**	Eric Lee

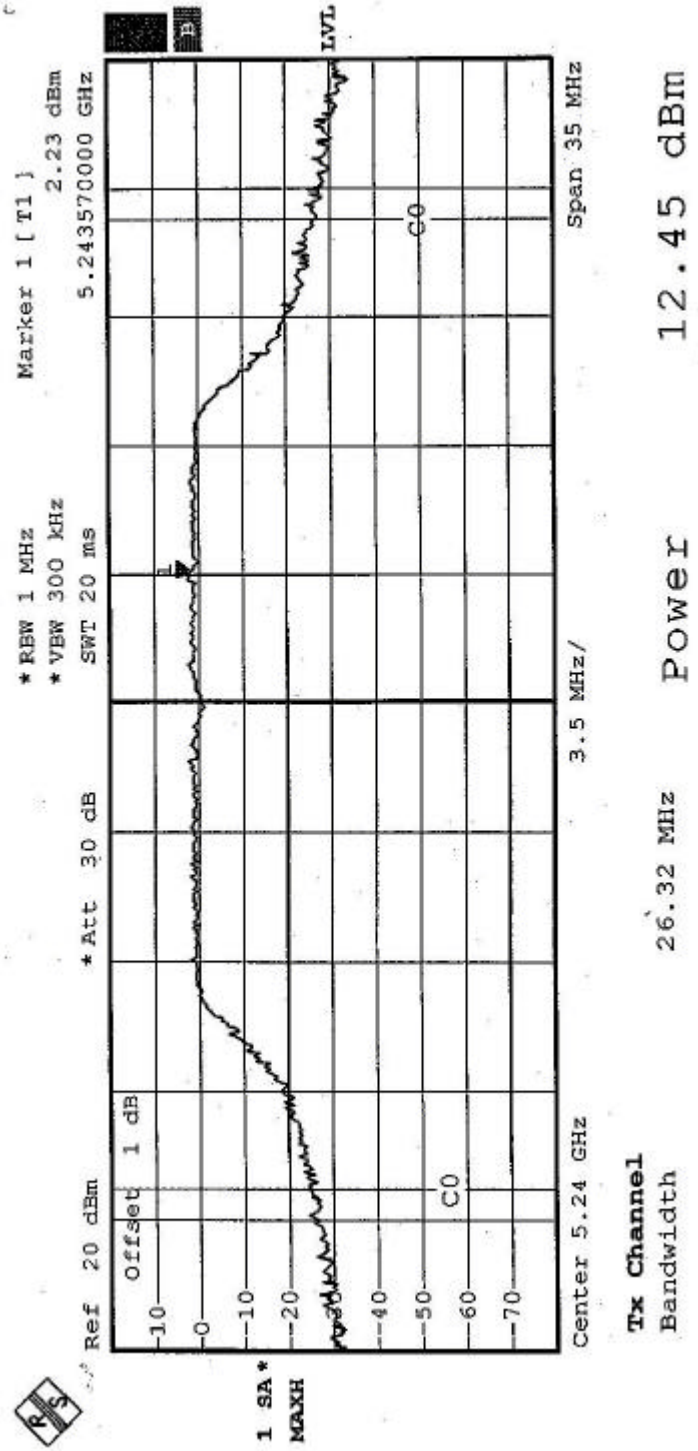
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	12.30	17.00	26.32	PASS
4	5240	12.45	17.00	26.32	PASS
5	5260	12.27	24.00	26.25	PASS
8	5320	12.08	24.00	26.25	PASS

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

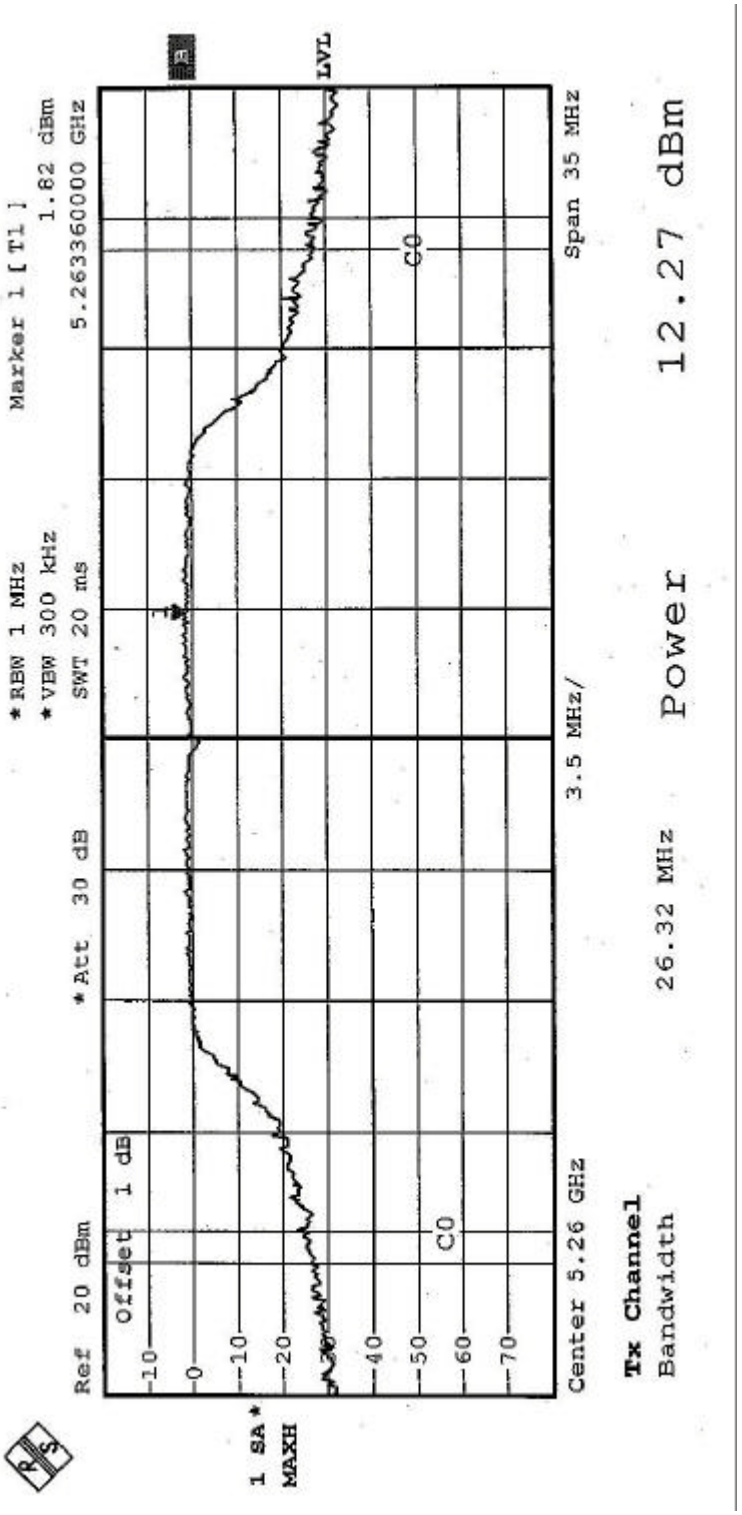
CHANNEL 1


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
1.84 dBm
5.18371000 GHz
1 SA *
MAXH
LVL
C0
Center 5.18 GHz
3.5 MHz/
Span 35 MHz
Tx Channel
Bandwidth
26.32 MHz
Power
12.30 dBm

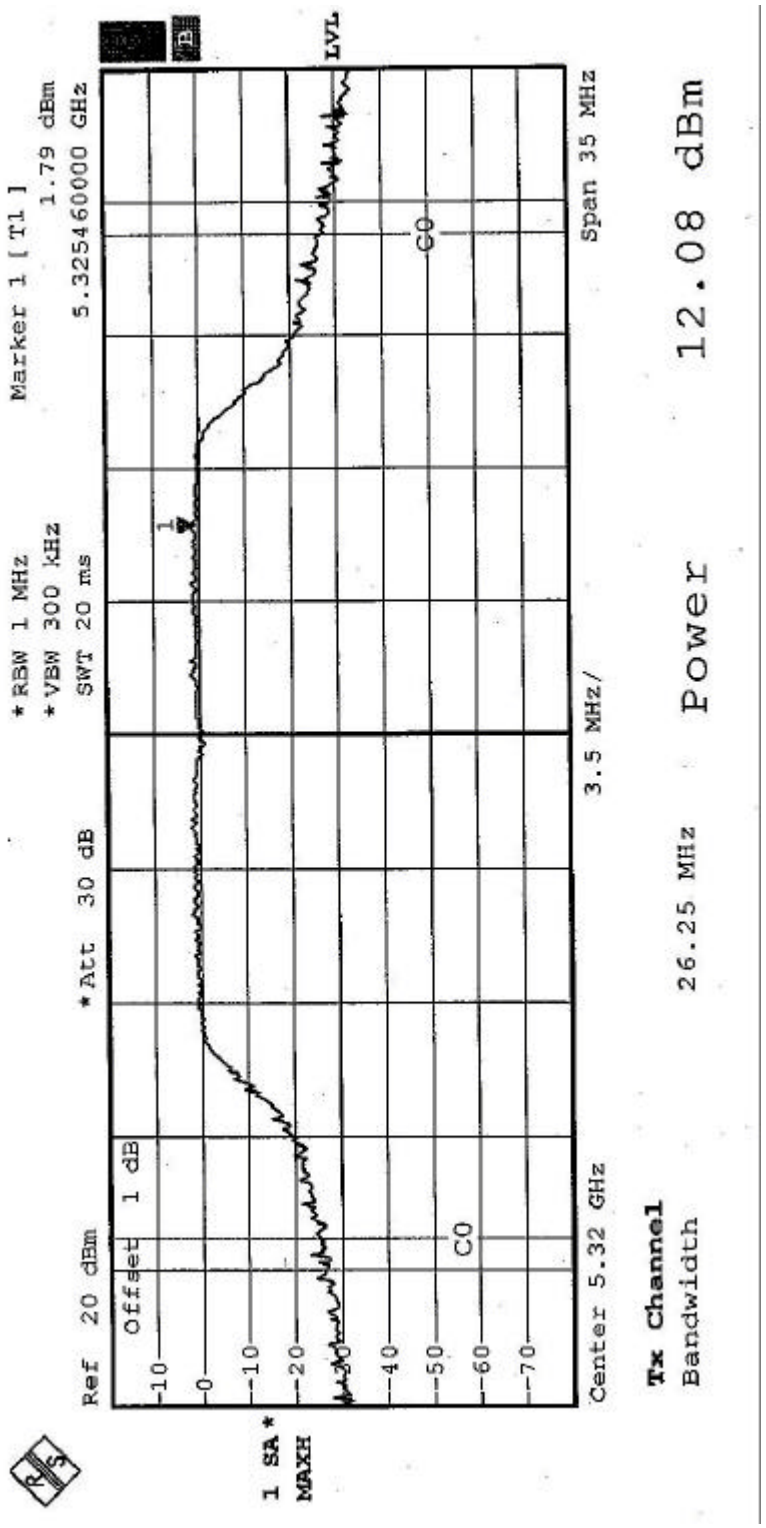
CHANNEL 4


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
2.23 dBm
5.243570000 GHz
1 SA *
MAXH
LVL
Center 5.24 GHz
3.5 MHz/
Span 35 MHz
Tx Channel
Bandwidth
26.32 MHz
Power
12.45 dBm

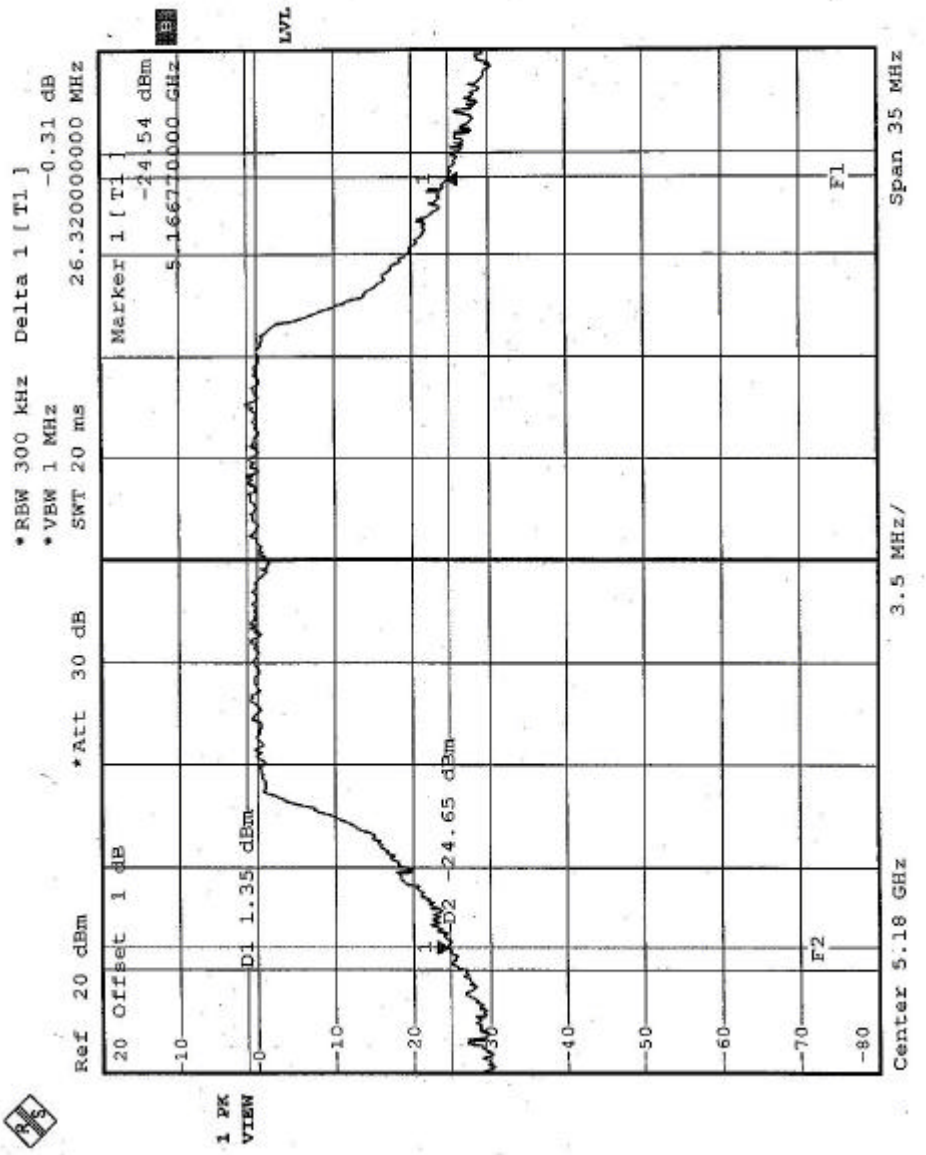
CHANNEL 5


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
1.82 dBm
5.26360000 GHz
1 SA*
MAXH
LVL
Center 5.26 GHz
3.5 MHz/
Span 35 MHz
Tx Channel
Bandwidth
26.32 MHz
Power
12.27 dBm

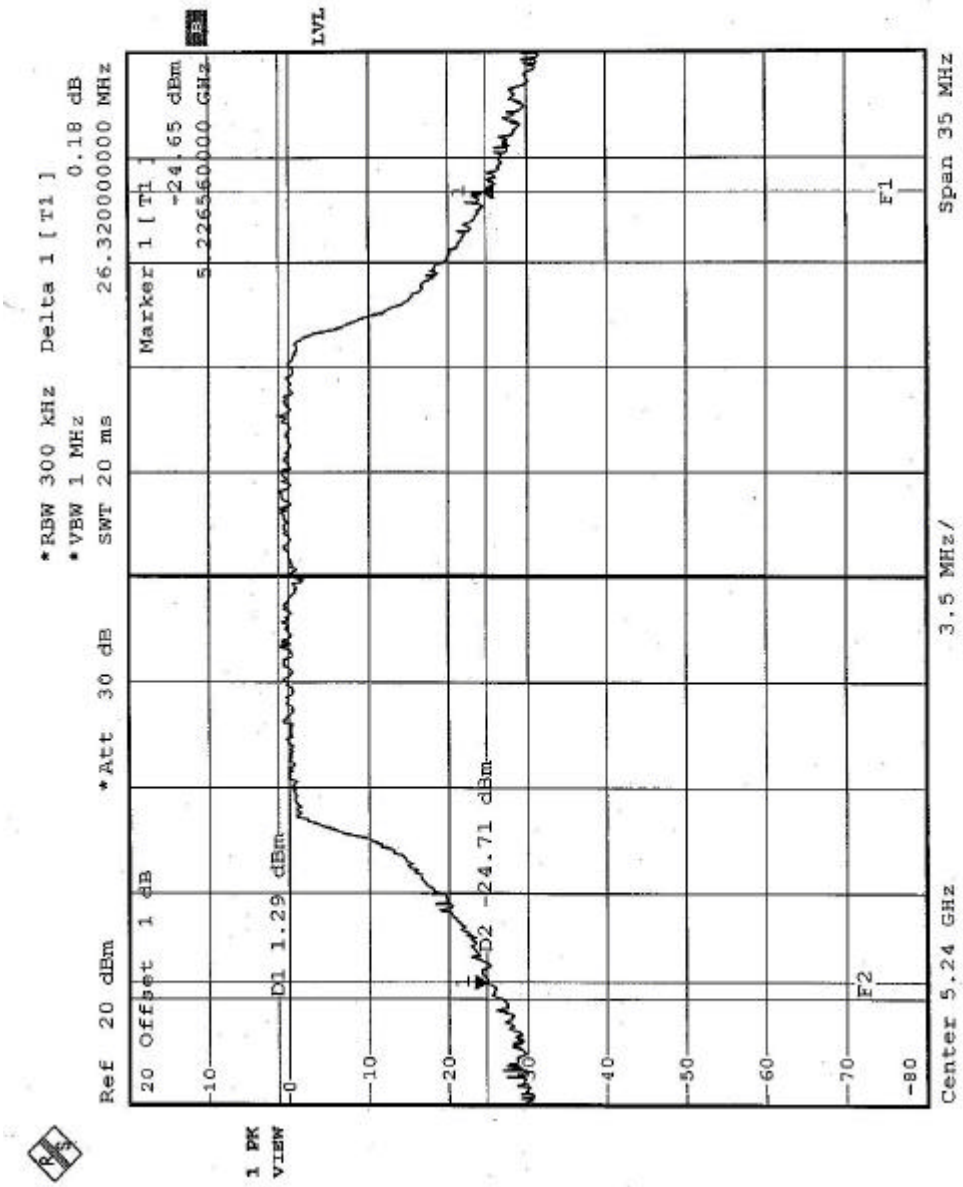
CHANNEL 8


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
1.79 dBm
5.325460000 GHz
1 SA *
MAXH
Center 5.32 GHz
3.5 MHz/
Span 35 MHz
Tx Channel
Bandwidth
26.25 MHz
Power
12.08 dBm

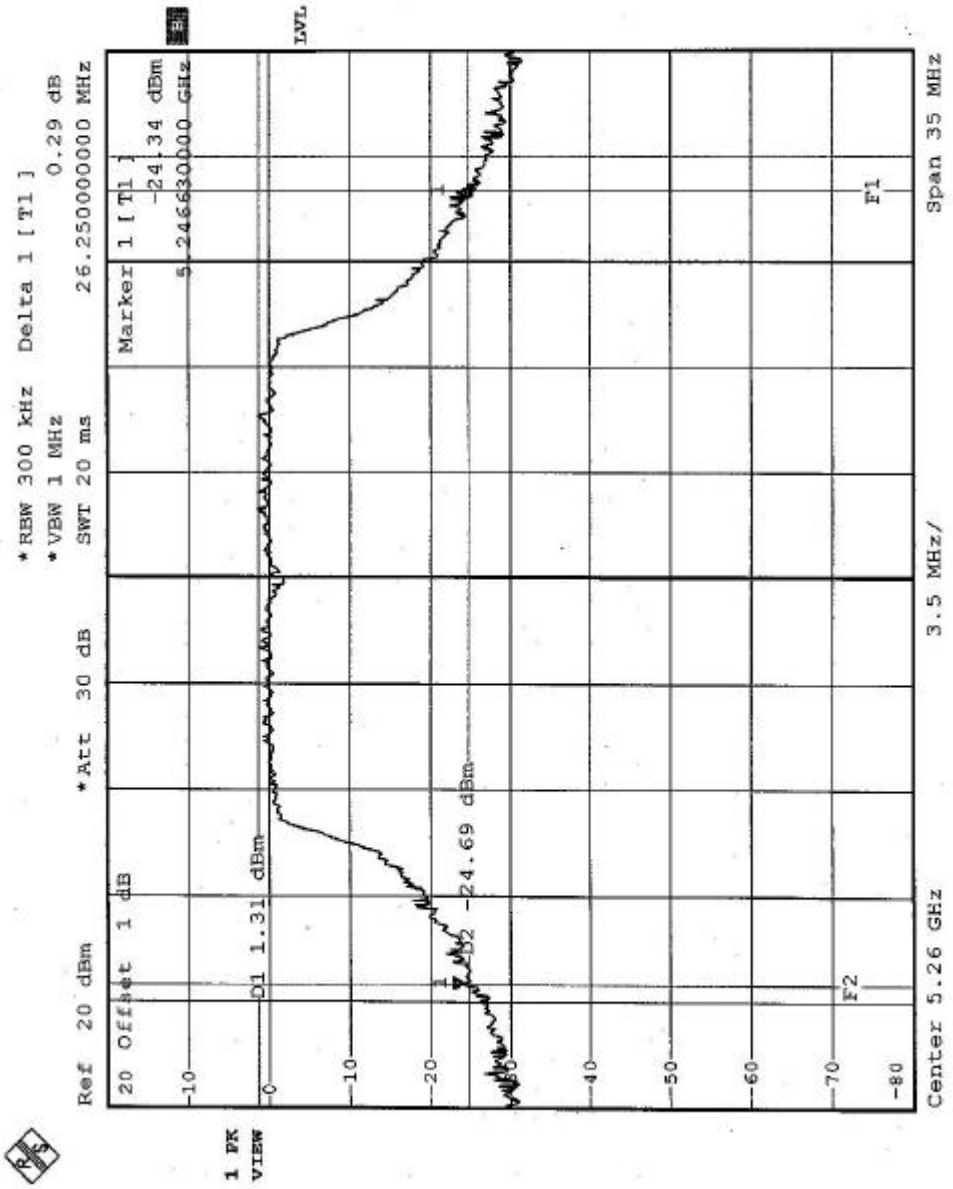
CHANNEL 1


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
-0.31 dB
26.32000000 MHz
Marker 1 [T1]
-24.54 dBm
5.16670000 GHz
D1 1.35 dBm
D2 -24.65 dBm
1 PK
VIEW
LVL
F1
F2
Center 5.18 GHz
3.5 MHz/
Span 35 MHz

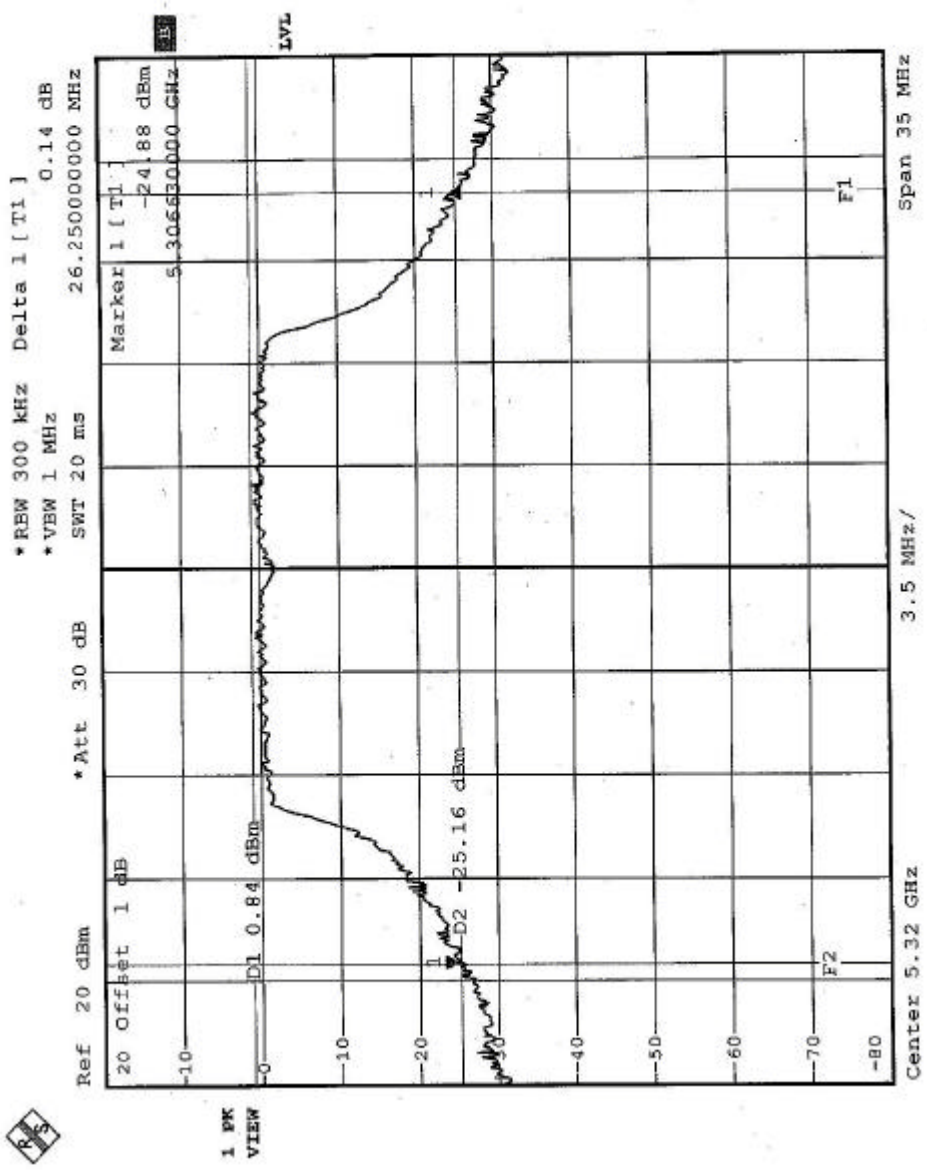
CHANNEL 4


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.18 dB
26.32000000 MHz
Marker 1 [T1]
-24.65 dBm
5.226560000 GHz
D1 1.29 dBm
D2 -24.71 dBm
F1
F2
1 PK
VIEW
LVL
Center 5.24 GHz
3.5 MHz/
Span 35 MHz

CHANNEL 5


Ref 20 dBm
Att 30 dB
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.29 dB
26.250000000 MHz
Marker 1 [T1]
-24.34 dBm
5.246630000 GHz
20 Offset 1 dB
D1 1.31 dBm
D2 -24.69 dBm
1 PK VIEW
LVL
F1
F2
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

CHANNEL 8

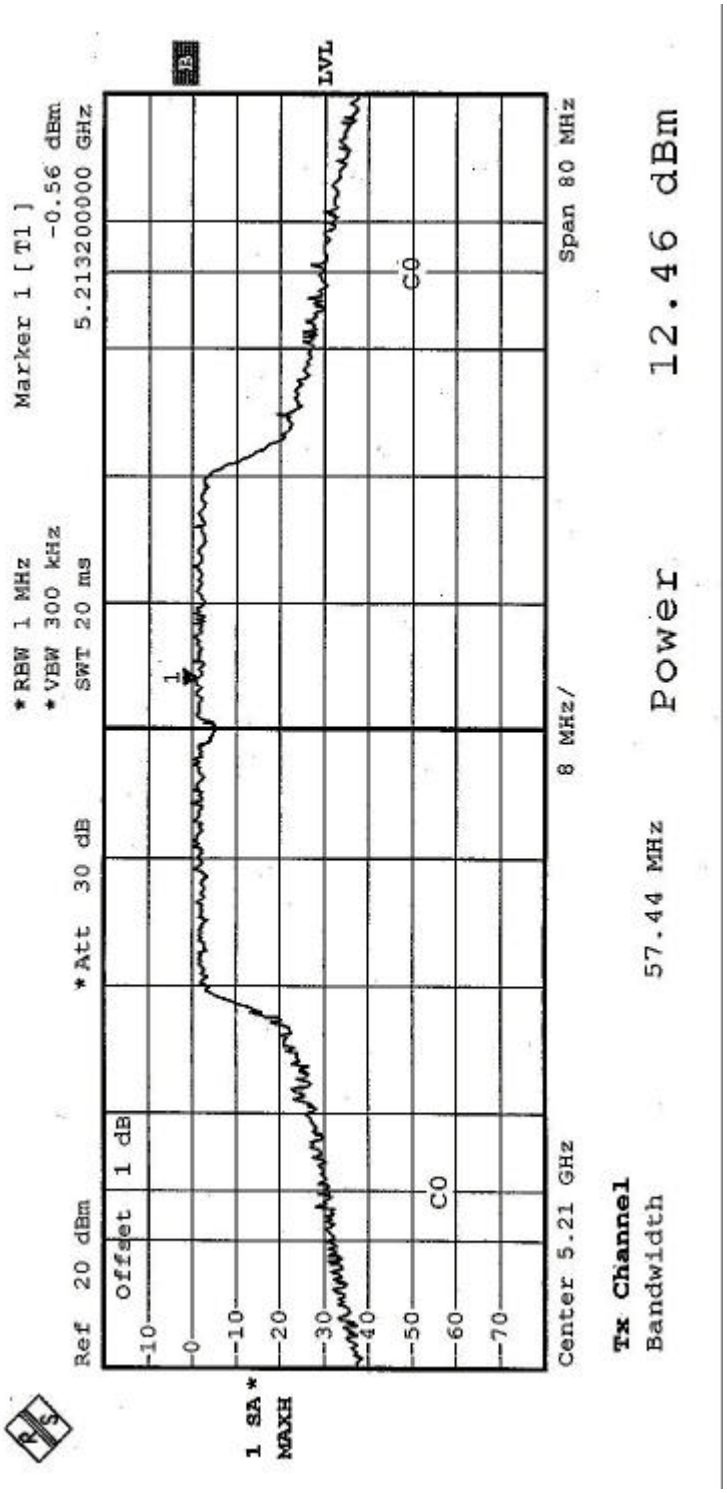

Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.14 dB
26.250000000 MHz
Marker 1 [T1]
-24.88 dBm
5.306630000 GHz
D1 0.84 dBm
D2 -25.16 dBm
F1
F2
LVL
1 PK
VIEW
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

EUT	Wireless miniPCI 802.11 a/g/b adapter	**MODEL**	WN6401C
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 966 hPa	**TESTED BY**	Eric Lee

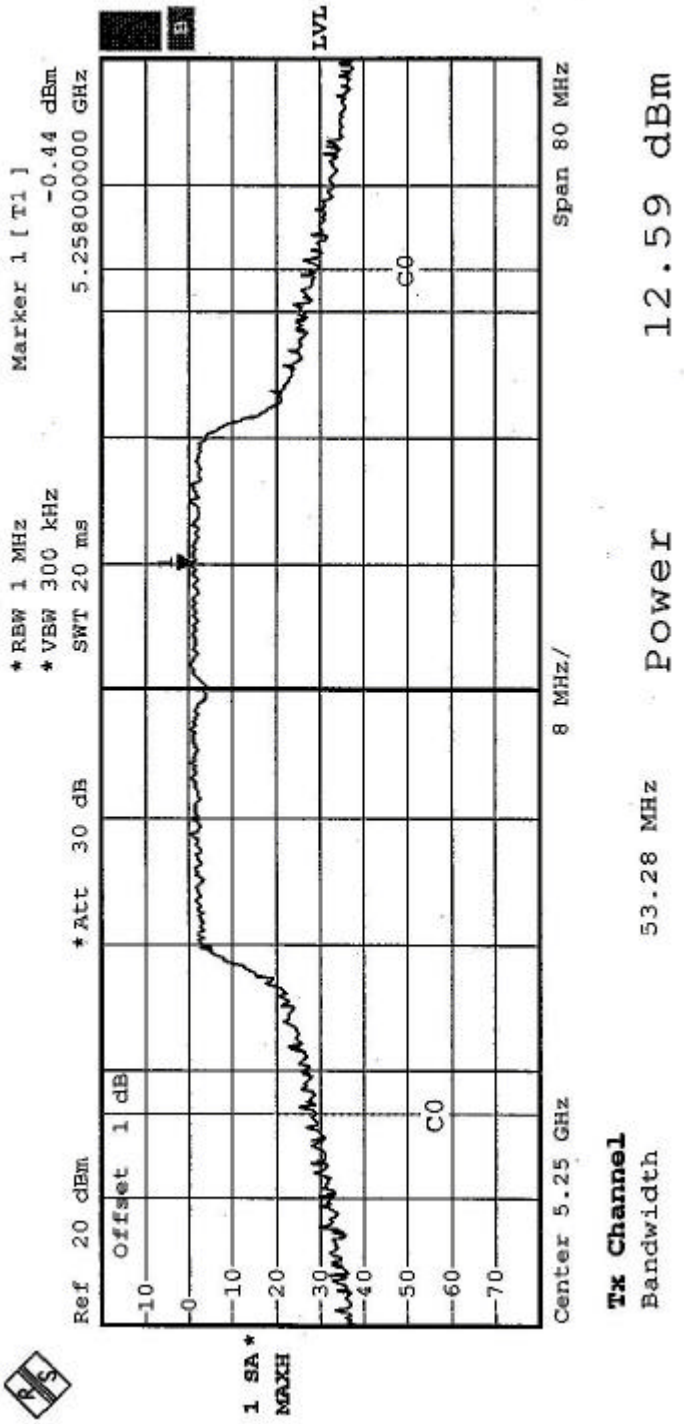
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	12.46	17.00	57.44	PASS
2	5250	12.59	24.00	53.28	PASS
3	5290	12.37	24.00	51.68	PASS

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

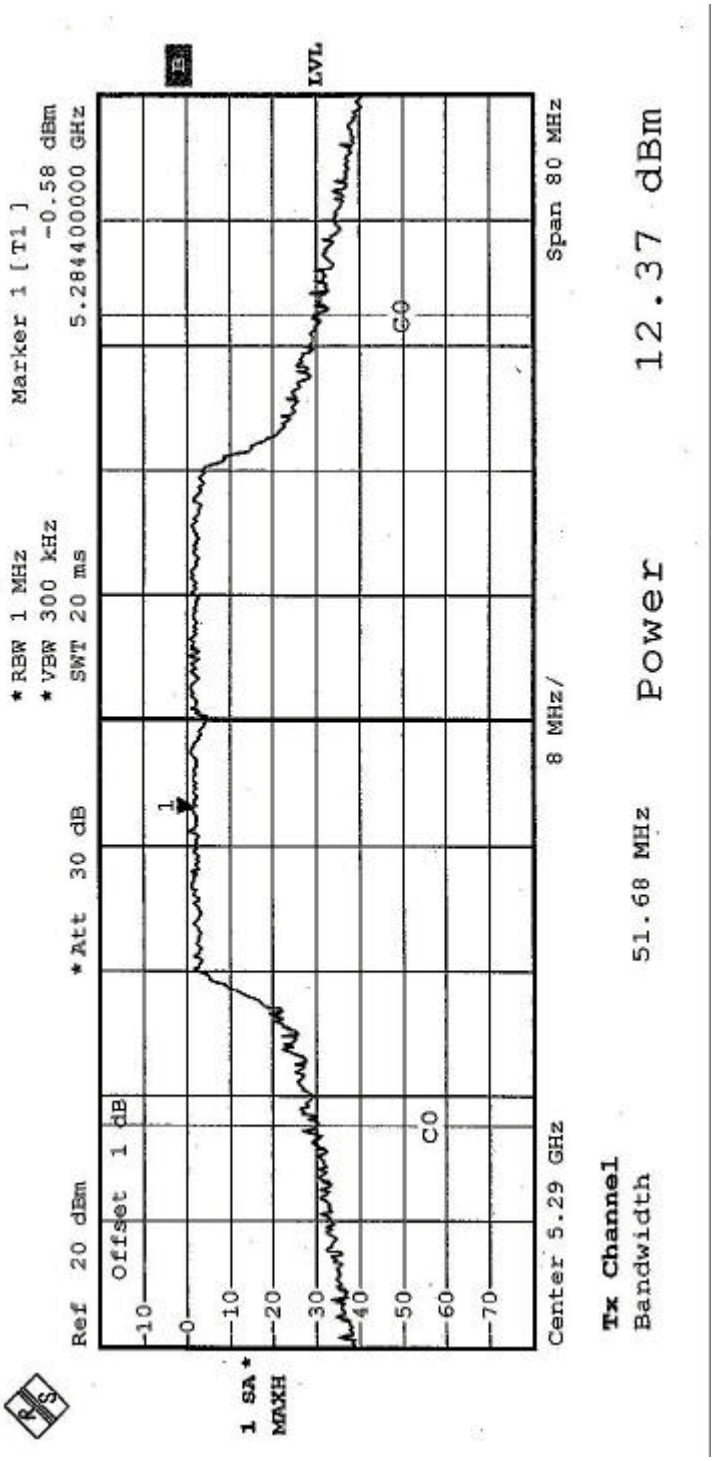
CHANNEL 1


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
-0.56 dBm
5.21320000 GHz
1 SA *
MAXH
LVL
Center 5.21 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
57.44 MHz
Power
12.46 dBm

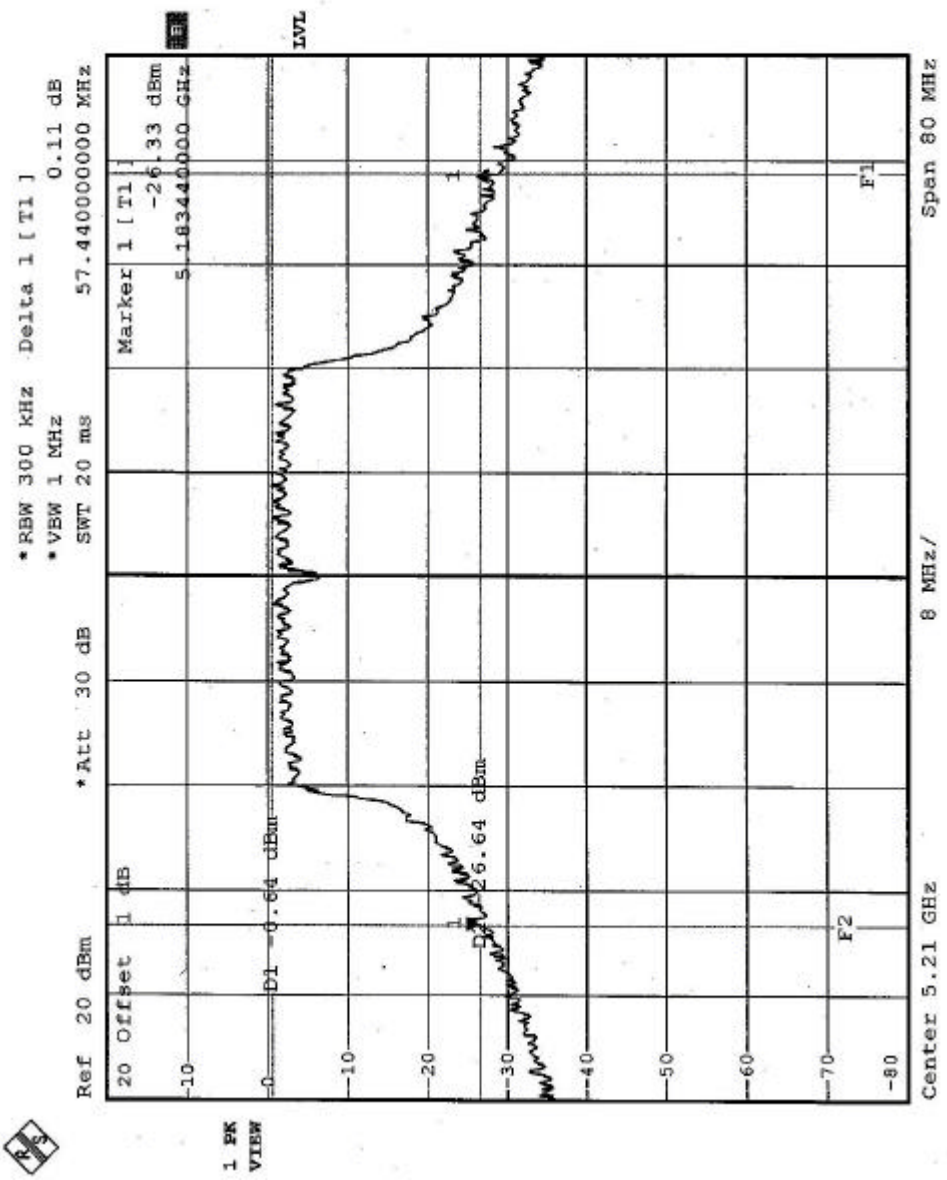
CHANNEL 2


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
-0.44 dBm
5.258000000 GHz
LVL
1 SA *
MAXH
-10
0
10
20
30
40
50
60
70
C0
C0
Center 5.25 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
53.28 MHz
Power
12.59 dBm

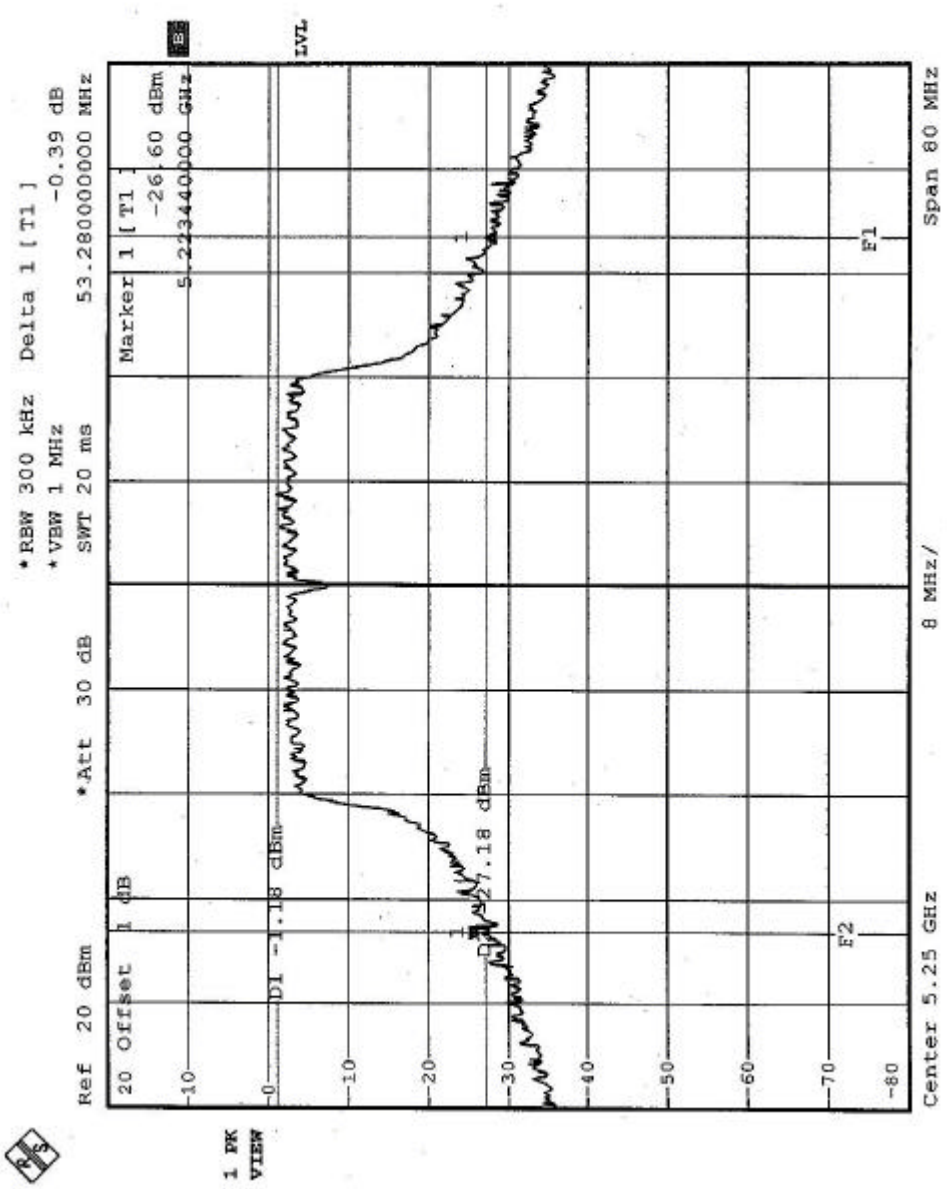
CHANNEL 3


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
-0.58 dBm
5.28400000 GHz
1 SA*
MAXH
LVL
Center 5.29 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
51.68 MHz
Power
12.37 dBm

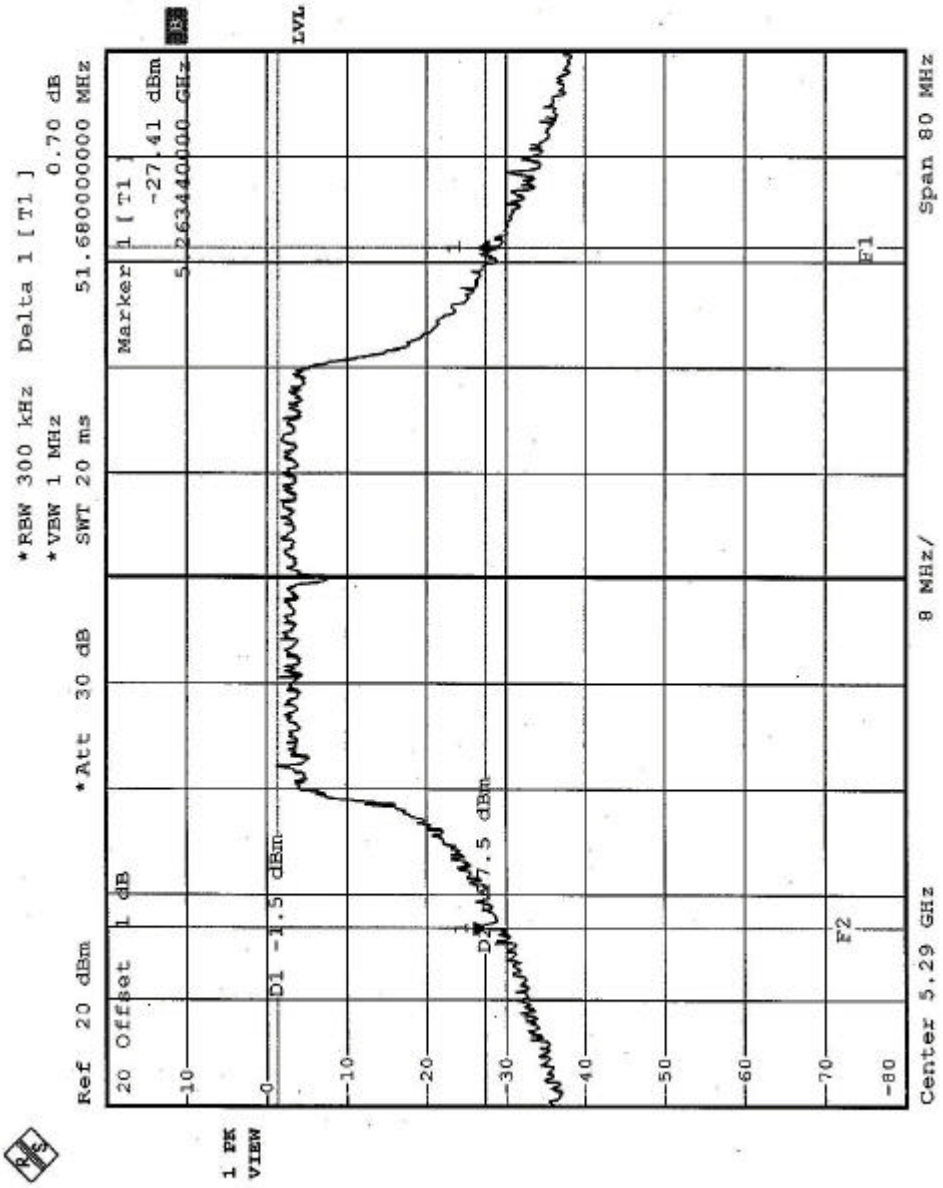
CHANNEL 1


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1] 0.11 dB
57.440000000 MHz
Marker 1 [T1] -26.33 dBm
5.183440000 GHz
LVL
D1 -0.64 dBm
D2 -26.64 dBm
F1
F2
1 PK
VIBW
Center 5.21 GHz
8 MHz/
Span 80 MHz

CHANNEL 2


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
-0.39 dB
53.280000000 MHz
Marker 1 [T1]
-26.60 dBm
5.223440000 GHz
D1 -1.18 dBm
D2 -27.18 dBm
1 PK
VIEW
LVL
F1
F2
Center 5.25 GHz
8 MHz/
Span 80 MHz

CHANNEL 3


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1] 0.70 dB
51.680000000 MHz
Marker 1 [T1]
-27.41 dBm
5.263440000 GHz
LVL
D1 -1.5 dBm
D2 -7.5 dBm
F1
F2
1 PK
VIEW
Center 5.29 GHz
8 MHz/
Span 80 MHz