



4.2.8 TEST RESULTS (A) -OFDM

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average(AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2388.00	55.7 PK	74.00	-18.30	1.55 H	24	26.00	29.80
1	2388.00	37.8 AV	54.00	-16.20	1.55 H	24	8.00	29.80
2	*2412.00	93.1 PK			1.59 H	29	63.20	29.90
2	*2412.00	88.1 AV			1.59 H	29	58.20	29.90
3	2490.00	37.1 PK	74.00	-36.90	1.43 H	111	7.00	30.20
4	4824.00	50.3 PK	74.00	-23.70	1.09 H	14	14.00	36.20
5	7236.00	59.6 PK	74.00	-14.40	1.02 H	10	17.90	41.70
5	7236.00	38.3 AV	54.00	-15.70	1.02 H	10	-3.40	30.20
6	9648.00	59.8 PK	73.10	-13.30	1.60 H	163	14.90	44.90
6	9648.00	45.5 AV	68.10	-22.60	1.60 H	163	0.60	36.20

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	2387.00	60.9 PK	74.00	-13.10	1.20 V	123	31.10	29.80
1	2387.00	48.3 AV	54.00	-5.70	1.20 V	123	18.50	29.80
2	*2412.00	101.7 PK			1.00 V	48	71.80	29.90
2	*2412.00	93.0 AV			1.00 V	48	63.10	29.90
3	2499.00	37.5 PK	74.00	-36.50	1.02 V	1	7.30	30.20
4	4824.00	54.7 PK	74.00	-19.30	1.48 V	220	18.50	36.20
4	4824.00	36.4 AV	54.00	-17.60	1.48 V	220	0.10	30.20
5	7236.00	52.8 PK	74.00	-21.20	1.21 V	230	11.10	41.70
5	7236.00	41.3 AV	54.00	-12.70	1.21 V	230	-0.40	36.20
6	9648.00	64.6 PK	81.70	-17.10	1.20 V	30	19.70	44.90
6	9648.00	51.1 AV	73.00	-21.90	1.20 V	30	6.20	41.70

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2376.00	50.2 PK	74.00	-23.80	1.69 H	132	20.50	29.70
2	*2437.00	104.2 PK			1.52 H	210	74.20	30.00
2	*2437.00	97.6 AV			1.52 H	210	67.60	29.70
3	2496.00	48.2 PK	74.00	-25.80	1.54 H	24	18.00	30.20
4	4874.00	45.3 PK	74.00	-28.70	1.63 H	21	8.90	36.50
5	7311.00	48.5 PK	74.00	-25.50	1.07 H	54	6.70	41.80
6	9748.00	50.5 PK	84.20	-33.70	1.66 H	111	5.80	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	2376.00	55.9 PK	74.00	-18.10	1.00 V	81	26.20	29.70
1	2376.00	36.1 AV	54.00	-17.90	1.00 V	81	6.40	29.70
2	*2437.00	110.1 PK			1.33 V	60	80.10	30.00
2	*2437.00	102.7 AV			1.33 V	60	72.70	30.00
3	2499.00	58.7 PK	74.00	-15.30	1.53 V	21	28.50	30.20
3	2499.00	35.9 AV	54.00	-18.10	1.53 V	21	5.70	30.20
4	4874.00	54.0 PK	74.00	-20.00	1.70 V	120	17.50	36.50
4	4874.00	51.7 AV	54.00	-2.30	1.70 V	120	15.30	36.50
5	7311.00	53.6 PK	74.00	-20.40	1.61 V	70	11.90	41.80
5	7311.00	50.4 AV	54.00	-3.60	1.61 V	70	8.70	41.80
6	9748.00	53.4 PK	90.10	-36.70	1.20 V	89	8.80	44.60
6	9748.00	50.2 AV	82.70	-32.50	1.20 V	89	5.60	44.60

- 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
 6. " * " : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2366.00	35.7 PK	74.00	-38.30	1.54 H	103	6.00	29.70
2	2462.00	82.8 PK	74.00	8.80	1.07 H	25	52.70	30.10
2	2462.00	76.7 AV	54.00	22.70	1.07 H	25	46.60	29.70
3	2490.00	60.9 PK	74.00	-13.10	1.71 H	110	30.70	30.20
3	2490.00	36.1 AV	54.00	-17.90	1.71 H	110	5.90	30.10
4	4924.00	41.2 PK	74.00	-32.80	1.09 H	24	4.50	36.70
5	7386.00	46.3 PK	74.00	-27.70	1.60 H	3	4.50	41.80
6	9848.00	50.0 PK	62.80	-12.80	1.55 H	41	5.60	44.40

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	2377.00	42.8 PK	74.00	-31.20	1.69 V	20	13.10	29.70
2	2462.00	94.9 PK	74.00	20.90	1.00 V	56	64.90	30.10
2	2462.00	88.1 AV	54.00	34.10	1.00 V	56	58.00	29.70
3	2499.00	67.7 PK	74.00	-6.30	1.17 V	12	37.50	30.20
3	2499.00	42.6 AV	54.00	-11.40	1.17 V	12	12.40	30.10
4	4924.00	55.5 PK	74.00	-18.50	1.54 V	12	18.80	36.70
4	4924.00	31.0 AV	54.00	-23.00	1.54 V	12	-5.60	30.20
5	7386.00	48.7 PK	74.00	-25.30	1.20 V	153	6.90	41.80
6	9848.00	54.2 PK	74.90	-20.70	1.19 V	20	9.90	44.40
6	9848.00	50.5 AV	68.10	-17.60	1.19 V	20	6.20	36.70

- 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
 6. “ * “ : Fundamental frequency



4.2.9 TEST RESULTS (B)

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 84 % RH, 979 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	264.00	32.3 QP	46.00	-13.70	1.45 H	30	18.20	14.10
2	320.00	38.6 QP	46.00	-7.40	1.07 H	169	24.10	14.50
3	330.00	31.1 QP	46.00	-14.90	1.08 H	320	16.20	14.90
4	396.01	30.9 QP	46.00	-15.10	1.23 H	114	14.00	16.90
5	440.03	33.9 QP	46.00	-12.10	1.09 H	14	15.90	18.00
6	484.00	28.0 QP	46.00	-18.00	1.63 H	193	9.00	19.00
7	528.00	32.8 QP	46.00	-13.20	1.24 H	321	13.10	19.70
8	571.90	24.6 QP	46.00	-21.40	1.23 H	103	3.20	21.40
9	660.00	30.1 QP	46.00	-15.90	1.12 H	325	7.90	22.20
10	924.00	26.9 QP	46.00	-19.10	1.04 H	200	0.90	26.00

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	68.40	28.9 QP	40.00	-11.10	1.10 V	2	23.10	5.80
2	125.01	24.4 QP	43.50	-19.10	1.14 V	309	12.30	12.10
3	264.01	33.0 QP	46.00	-13.00	1.49 V	170	18.90	14.10
4	320.00	30.7 QP	46.00	-15.30	1.23 V	45	16.20	14.50
5	330.00	30.1 QP	46.00	-15.90	1.31 V	158	15.20	14.90
6	396.01	32.3 QP	46.00	-13.70	1.54 V	201	15.40	16.90
7	440.00	41.0 QP	46.00	-5.00	1.41 V	103	23.00	18.00
8	528.02	37.8 QP	46.00	-8.20	1.05 V	21	18.10	19.70
9	572.00	39.6 QP	46.00	-6.40	1.09 V	78	18.20	21.40
10	660.00	31.2 QP	46.00	-14.80	1.02 V	91	9.00	22.20
11	924.00	29.2 QP	46.00	-16.80	1.00 V	104	3.20	26.00

- 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



4.2.10 TEST RESULTS (B) - DSSS

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average(AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2376.00	56.4 PK	74.00	-17.60	1.27 H	66	26.70	29.70
1	2376.00	40.8 AV	54.00	-13.20	1.27 H	66	11.10	29.70
2	*2412.00	102.6 PK			1.95 H	14	72.70	29.90
2	*2412.00	95.9 AV			1.95 H	14	66.00	29.90
3	2496.00	53.7 PK	74.00	-20.30	1.32 H	97	23.50	30.20
3	2496.00	38.0 AV	54.00	-16.00	1.32 H	97	7.80	30.20
4	4824.00	51.2 PK	74.00	-22.80	1.25 H	14	15.00	36.20
4	4824.00	39.2 AV	54.00	-14.80	1.25 H	14	3.00	36.20
5	7236.00	51.5 PK	74.00	-22.50	1.63 H	23	9.80	41.70
5	7236.00	44.0 AV	54.00	-10.00	1.63 H	23	2.30	41.70
6	9648.00	55.4 PK	82.60	-27.20	1.63 H	22	10.50	44.90
6	9648.00	47.1 AV	75.90	-28.80	1.63 H	22	2.20	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	2385.00	61.9 PK	74.00	-12.10	1.33 V	21	32.20	29.80
1	2385.00	48.4 AV	54.00	-5.60	1.33 V	21	18.60	29.80
2	*2412.00	108.8 PK			1.33 V	21	78.90	29.90
2	*2412.00	102.0 AV			1.33 V	21	72.10	29.90
3	2496.00	55.0 PK	74.00	-19.00	1.26 V	19	24.80	30.20
3	2496.00	40.9 AV	54.00	-13.10	1.26 V	19	10.70	30.20
4	4824.00	55.1 PK	74.00	-18.90	1.01 V	30	18.90	36.20
4	4824.00	43.6 AV	54.00	-10.40	1.01 V	30	7.40	36.20
5	7236.00	54.3 PK	74.00	-19.70	1.03 V	20	12.60	41.70
5	7236.00	49.3 AV	54.00	-4.70	1.03 V	20	7.60	41.70
6	9648.00	59.3 PK	88.80	-29.50	1.01 V	200	14.40	44.90
6	9648.00	50.5 AV	82.00	-31.50	1.01 V	200	5.60	44.90

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2372.00	46.6 PK	74.00	-27.40	1.52 H	210	16.90	29.70
2	*2437.00	104.8 PK			1.35 H	29	74.80	30.00
2	*2437.00	98.2 AV			1.35 H	29	68.20	29.70
3	2499.00	44.1 PK	74.00	-29.90	1.76 H	6	13.90	30.20
4	4874.00	56.2 PK	74.00	-17.80	1.42 H	333	19.70	36.50
4	4874.00	46.4 AV	54.00	-7.60	1.42 H	333	9.90	30.00
5	7311.00	52.0 PK	74.00	-22.00	1.23 H	18	10.30	41.80
5	7311.00	48.9 AV	54.00	-5.10	1.23 H	18	7.10	30.20
6	9748.00	55.4 PK	84.80	-29.40	1.16 H	99	10.80	44.60
6	9748.00	50.9 AV	78.20	-27.30	1.16 H	99	6.30	36.50

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	2370.00	53.5 PK	74.00	-20.50	1.81 V	70	23.80	29.70
1	2370.00	34.7 AV	54.00	-19.30	1.81 V	70	5.00	29.70
2	*2437.00	113.1 PK			1.30 V	86	83.10	30.00
2	*2437.00	104.2 AV			1.30 V	86	74.20	30.00
3	2496.00	47.1 PK	74.00	-26.90	1.47 V	45	17.00	30.20
4	4874.00	62.5 PK	74.00	-11.50	1.62 V	111	26.00	36.50
4	4874.00	52.3 AV	54.00	-1.70	1.62 V	111	15.80	30.20
5	7311.00	56.6 PK	74.00	-17.40	1.69 V	42	14.90	41.80
5	7311.00	48.7 AV	54.00	-5.30	1.69 V	42	7.00	36.50
6	9748.00	55.8 PK	93.10	-37.30	1.59 V	68	11.10	44.60
6	9748.00	50.3 AV	84.20	-33.90	1.59 V	68	5.70	41.80

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2376.00	47.5 PK	74.00	-26.50	1.00 H	1	17.80	29.70
2	*2462.00	103.3 PK			1.62 H	100	73.20	30.10
2	*2462.00	98.3 AV			1.62 H	100	68.20	29.70
3	2490.00	51.9 PK	74.00	-22.10	1.63 H	201	21.70	30.20
3	2490.00	37.1 AV	54.00	-16.90	1.63 H	201	6.90	30.10
4	4924.00	53.2 PK	74.00	-20.80	1.46 H	210	16.50	36.70
4	4924.00	42.7 AV	54.00	-11.30	1.46 H	210	6.00	30.20
5	7386.00	48.1 PK	74.00	-25.90	1.25 H	31	6.30	41.80
6	9848.00	51.0 PK	83.30	-32.30	1.30 H	29	6.70	44.40
6	9848.00	46.7 AV	78.30	-31.60	1.30 H	29	2.40	36.70

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	2350.00	51.8 PK	74.00	-22.20	1.15 V	25	22.20	29.60
1	2350.00	38.1 AV	54.00	-15.90	1.15 V	25	8.50	29.60
2	*2462.00	108.3 PK			1.37 V	34	78.20	30.10
2	*2462.00	103.1 AV			1.37 V	34	73.10	30.10
3	2490.00	60.3 PK	74.00	-13.70	1.39 V	25	30.10	30.20
3	2490.00	45.3 AV	54.00	-8.70	1.39 V	25	15.20	30.20
4	4924.00	58.3 PK	74.00	-15.70	1.10 V	30	21.60	36.70
4	4924.00	48.1 AV	54.00	-5.90	1.10 V	30	11.40	36.70
5	7386.00	51.6 PK	74.00	-22.40	1.40 V	21	9.70	41.80
5	7386.00	44.7 AV	54.00	-9.30	1.40 V	21	2.90	41.80
6	9848.00	55.4 PK	88.30	-32.90	1.23 V	60	11.00	44.40
6	9848.00	50.9 AV	83.10	-32.20	1.23 V	60	6.50	44.40

- 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. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



4.2.11 TEST RESULTS (B) -OFDM

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average(AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2389.00	57.7 PK	74.00	-16.30	1.13 H	27	27.90	29.80
1	2389.00	40.7 AV	54.00	-13.30	1.13 H	27	10.90	29.80
2	*2412.00	97.5 PK			1.55 H	21	67.60	29.90
2	*2412.00	87.4 AV			1.55 H	21	57.50	29.90
3	2496.00	44.1 PK	74.00	-29.90	1.14 H	62	13.90	30.20
4	4824.00	49.2 PK	74.00	-24.80	1.69 H	216	13.00	36.20
5	7236.00	48.8 PK	74.00	-25.20	1.11 H	21	7.10	41.70
6	9648.00	51.5 PK	77.50	-26.00	1.30 H	110	6.60	44.90
6	9648.00	47.7 AV	67.40	-19.70	1.30 H	110	2.80	30.20

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	2389.00	60.6 PK	74.00	-13.40	1.09 V	20	30.80	29.80
1	2389.00	42.4 AV	54.00	-11.60	1.09 V	20	12.60	29.80
2	*2412.00	101.9 PK			1.09 V	143	72.00	29.90
2	*2412.00	92.8 AV			1.09 V	143	62.90	29.90
3	2499.00	56.7 PK	74.00	-17.30	1.36 V	99	26.50	30.20
3	2499.00	37.0 AV	54.00	-17.00	1.36 V	99	6.80	30.20
4	4824.00	53.6 PK	74.00	-20.40	1.78 V	222	17.40	36.20
4	4824.00	39.6 AV	54.00	-14.40	1.78 V	222	3.40	36.20
5	7236.00	52.7 PK	74.00	-21.30	1.06 V	89	11.00	41.70
5	7236.00	41.6 AV	54.00	-12.40	1.06 V	89	-0.10	41.70
6	9648.00	57.6 PK	81.90	-24.30	1.21 V	333	12.70	44.90
6	9648.00	54.1 AV	72.80	-18.70	1.21 V	333	9.20	44.90

- 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
 6. " * " : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2388.00	50.6 PK	74.00	-23.40	1.54 H	119	20.80	29.80
2	*2437.00	104.1 PK			1.34 H	26	74.10	30.00
2	*2437.00	95.3 AV			1.34 H	26	65.30	29.80
3	2490.00	43.0 PK	74.00	-31.00	1.39 H	62	12.80	30.20
4	4874.00	49.2 PK	74.00	-24.80	1.36 H	41	12.80	36.50
5	7311.00	60.8 PK	74.00	-13.20	1.38 H	42	19.10	41.80
5	7311.00	48.2 AV	54.00	-5.80	1.38 H	42	6.50	30.00
6	9748.00	54.0 PK	84.10	-30.10	1.21 H	9	9.40	44.60
6	9748.00	49.2 AV	75.30	-26.10	1.21 H	9	4.60	30.20

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	2376.00	55.6 PK	74.00	-18.40	1.50 V	88	25.90	29.70
1	2376.00	38.4 AV	54.00	-15.60	1.50 V	88	8.70	29.70
2	*2437.00	108.53 PK			1.34 V	26	78.53	30.00
2	*2437.00	100.28 AV			1.34 V	26	65.30	30.00
3	2499.00	47.8 PK	74.00	-26.20	1.10 V	39	17.60	30.20
4	4874.00	63.2 PK	74.00	-10.80	1.86 V	41	26.70	36.50
4	4874.00	52.1 AV	54.00	-1.90	1.86 V	41	15.60	30.20
5	7311.00	60.8 PK	74.00	-13.20	1.38 V	2	19.10	41.80
5	7311.00	48.2 AV	54.00	-5.80	1.38 V	2	6.50	36.50
6	9748.00	56.1 PK	84.10	-28.00	1.21 V	12	11.50	44.60
6	9748.00	51.4 AV	75.30	-23.90	1.21 V	12	6.80	41.80

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2399.00	46.9 PK	74.00	-27.10	1.04 H	7	17.10	29.90
2	*2462.00	91.7 PK			1.10 H	33	61.60	30.10
2	*2462.00	83.8 AV			1.10 H	33	53.80	29.90
3	2493.00	55.0 PK	74.00	-19.00	1.36 H	132	24.80	30.20
3	2493.00	31.7 AV	54.00	-22.30	1.36 H	132	1.50	30.10
4	4924.00	46.5 PK	74.00	-27.50	1.22 H	5	9.80	36.70
5	7386.00	45.0 PK	74.00	-29.00	1.62 H	200	3.20	41.80
6	9848.00	50.7 PK	71.70	-21.00	1.28 H	91	6.40	44.40

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	2376.00	50.5 PK	74.00	-23.50	1.46 V	89	20.80	29.70
2	*2462.00	97.9 PK			1.10 V	48	67.90	30.10
2	*2462.00	88.1 AV			1.10 V	48	58.00	29.70
3	2486.00	59.1 PK	74.00	-14.90	1.06 V	87	28.90	30.10
3	2486.00	39.2 AV	54.00	-14.80	1.06 V	87	9.10	30.10
4	4924.00	51.2 PK	74.00	-22.80	1.01 V	100	14.50	36.70
4	4924.00	30.3 AV	54.00	-23.70	1.01 V	100	-6.40	30.10
5	7386.00	47.1 PK	74.00	-26.90	1.08 V	210	5.30	41.80
6	9848.00	58.4 PK	77.90	-19.50	1.54 V	32	14.00	44.40
6	9848.00	50.9 AV	68.10	-17.20	1.54 V	32	6.60	36.70

- 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
 6. “ * “ : Fundamental frequency



4.2.12 TEST RESULTS (C)

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 84 % RH, 979 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	264.00	29.2 QP	46.00	-16.80	1.39 H	21	15.10	14.10
2	320.00	37.3 QP	46.00	-8.70	1.02 H	105	22.80	14.50
3	330.00	27.2 QP	46.00	-18.80	1.11 H	84	12.30	14.90
4	396.01	31.8 QP	46.00	-14.20	1.06 H	189	14.90	16.90
5	440.00	32.2 QP	46.00	-13.80	1.07 H	14	14.20	18.00
6	484.01	28.0 QP	46.00	-18.00	1.59 H	254	9.00	19.00
7	528.00	33.1 QP	46.00	-12.90	1.60 H	234	13.40	19.70
8	572.00	25.5 QP	46.00	-20.50	1.23 H	9	4.10	21.40
9	660.00	29.3 QP	46.00	-16.70	1.09 H	241	7.10	22.20
10	924.00	28.0 QP	46.00	-18.00	1.00 H	198	2.00	26.00

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	67.00	33.5 QP	40.00	-6.50	1.01 V	83	27.90	5.60
2	125.01	23.7 QP	43.50	-19.80	1.01 V	1	11.60	12.10
3	264.00	34.1 QP	46.00	-11.90	1.01 V	64	20.00	14.10
4	307.98	30.2 QP	46.00	-15.80	1.68 V	39	15.90	14.30
5	320.00	39.7 QP	46.00	-6.30	1.36 V	247	25.20	14.50
6	330.00	28.8 QP	46.00	-17.20	1.52 V	20	13.90	14.90
7	352.00	25.7 QP	46.00	-20.30	1.25 V	143	10.10	15.60
8	396.00	33.3 QP	46.00	-12.70	1.38 V	109	16.40	16.90
9	440.00	43.6 QP	46.00	-2.40	1.35 V	156	25.60	18.00
10	484.01	26.1 QP	46.00	-19.90	1.11 V	147	7.10	19.00
11	528.01	38.6 QP	46.00	-7.40	1.00 V	21	18.90	19.70
12	572.00	27.8 QP	46.00	-18.20	1.07 V	111	6.40	21.40
13	660.00	34.6 QP	46.00	-11.40	1.06 V	254	12.40	22.20
14	924.00	31.3 QP	46.00	-14.70	1.02 V	53	5.30	26.00

- 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



4.2.13 TEST RESULTS (C) - DSSS

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average(AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2376.00	52.6 PK	74.00	-21.40	1.83 H	30	22.90	29.70
1	2376.00	39.2 AV	54.00	-14.80	1.83 H	30	9.40	29.70
2	*2412.00	102.1 PK			1.67 H	122	72.20	29.90
2	*2412.00	96.0 AV			1.67 H	122	66.10	29.90
3	2499.00	38.3 PK	74.00	-35.70	1.62 H	14	8.10	30.20
4	4824.00	48.9 PK	74.00	-25.10	1.98 H	98	12.70	36.20
5	7236.00	52.6 PK	74.00	-21.40	1.54 H	299	10.90	41.70
5	7236.00	44.7 AV	54.00	-9.30	1.54 H	299	3.10	30.20
6	9648.00	48.7 PK	82.10	-33.40	1.45 H	2	3.80	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	2376.00	62.8 PK	74.00	-11.20	1.01 V	69	33.10	29.70
1	2376.00	45.5 AV	54.00	-8.50	1.01 V	69	15.80	29.70
2	*2412.00	109.3 PK			1.22 V	67	79.40	29.90
2	*2412.00	101.9 AV			1.22 V	67	72.00	29.90
3	2499.00	44.7 PK	74.00	-29.30	1.73 V	89	14.50	30.20
4	4824.00	54.1 PK	74.00	-19.90	1.36 V	2	17.80	36.20
4	4824.00	41.0 AV	54.00	-13.00	1.36 V	2	4.80	30.20
5	7236.00	56.7 PK	74.00	-17.30	1.32 V	200	15.00	41.70
5	7236.00	48.6 AV	54.00	-5.40	1.32 V	200	6.90	36.20
6	9648.00	55.5 PK	89.30	-33.80	1.31 V	296	10.60	44.90
6	9648.00	50.5 AV	81.90	-31.40	1.31 V	296	5.60	41.70

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2387.00	50.9 PK	74.00	-23.10	1.55 H	4	21.20	29.80
2	*2437.00	108.1 PK			1.62 H	230	78.10	30.00
2	*2437.00	100.3 AV			1.62 H	230	70.30	29.80
3	2499.00	44.8 PK	74.00	-29.20	1.39 H	359	14.60	30.20
4	4874.00	57.1 PK	74.00	-16.90	1.26 H	3	20.60	36.50
4	4874.00	43.9 AV	54.00	-10.10	1.26 H	3	7.40	30.00
5	7311.00	53.8 PK	74.00	-20.20	1.70 H	3	12.00	41.80
5	7311.00	46.9 AV	54.00	-7.10	1.70 H	3	5.20	30.20
6	9748.00	51.8 PK	88.10	-36.30	1.44 H	214	7.20	44.60
6	9748.00	48.8 AV	80.30	-31.50	1.44 H	214	4.10	36.50

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	2390.00	55.8 PK	74.00	-18.20	1.62 V	28	25.90	29.80
1	2390.00	34.4 AV	54.00	-19.60	1.62 V	28	4.60	29.80
2	*2437.00	114.1 PK			1.22 V	135	84.10	30.00
2	*2437.00	106.5 AV			1.22 V	135	76.60	30.00
3	2499.00	48.9 PK	74.00	-25.10	1.53 V	297	18.70	30.20
4	4874.00	60.8 PK	74.00	-13.20	1.26 V	17	24.30	36.50
4	4874.00	48.0 AV	54.00	-6.00	1.26 V	17	11.60	30.20
5	7311.00	58.6 PK	74.00	-15.40	1.72 V	112	16.90	41.80
5	7311.00	51.4 AV	54.00	-2.60	1.72 V	112	9.70	36.50
6	9748.00	58.0 PK	94.10	-36.10	1.03 V	66	13.30	44.60
6	9748.00	55.8 AV	86.50	-31.30	1.03 V	66	11.10	41.80

- 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
 6. " * " : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2377.00	39.5 PK	74.00	-34.50	1.20 H	14	9.80	29.70
2	*2462.00	104.2 PK			1.32 H	117	74.10	30.10
2	*2462.00	96.3 AV			1.32 H	117	66.20	29.70
3	2499.00	50.2 PK	74.00	-23.80	1.74 H	22	20.00	30.20
4	4924.00	48.5 PK	74.00	-25.50	1.30 H	26	11.90	36.70
5	7386.00	48.0 PK	74.00	-26.00	1.36 H	47	6.20	41.80
6	9848.00	50.7 PK	74.00	-23.30	1.73 H	2	6.30	44.40

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	2377.00	40.9 PK	74.00	-33.10	1.66 V	21	11.20	29.70
2	*2462.00	110.7 PK			1.22 V	17	80.60	30.10
2	*2462.00	102.9 AV			1.22 V	17	72.80	29.70
3	2496.00	57.2 PK	74.00	-16.80	1.37 V	111	27.00	30.20
3	2496.00	41.2 AV	54.00	-12.80	1.37 V	111	11.00	30.10
4	4924.00	55.0 PK	74.00	-19.00	1.29 V	36	18.30	36.70
4	4924.00	45.9 AV	54.00	-8.10	1.29 V	36	9.20	30.20
5	7386.00	51.3 PK	74.00	-22.70	1.35 V	44	9.40	41.80
5	7386.00	44.7 AV	54.00	-9.30	1.35 V	44	2.90	36.70
6	9848.00	54.5 PK	90.70	-36.20	1.35 V	166	10.10	44.40
6	9848.00	49.9 AV	82.90	-33.00	1.35 V	166	5.50	41.80

- 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
 6. “ * “ : Fundamental frequency



4.2.14 TEST RESULTS (C) -OFDM

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average(AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2375.00	60.0 PK	74.00	-14.00	1.69 H	25	30.30	29.70
1	2375.00	41.4 AV	54.00	-12.60	1.69 H	25	11.70	29.70
2	*2412.00	89.2 PK			1.36 H	79	59.30	29.90
2	*2412.00	82.1 AV			1.36 H	79	52.20	29.90
3	2496.00	34.9 PK	74.00	-39.10	1.19 H	2	4.70	30.20
4	4824.00	51.1 PK	74.00	-22.90	1.09 H	25	14.90	36.20
4	4824.00	34.9 AV	54.00	-19.10	1.09 H	25	-1.30	30.20
5	7236.00	47.9 PK	74.00	-26.10	1.69 H	36	6.20	41.70
6	9648.00	50.7 PK	69.20	-18.50	1.92 H	0	5.80	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	2375.00	63.7 PK	74.00	-10.30	1.50 V	360	34.00	29.70
1	2375.00	45.4 AV	54.00	-8.60	1.50 V	360	15.70	29.70
2	*2412.00	101.8 PK			1.39 V	99	71.90	29.90
2	*2412.00	93.1 AV			1.39 V	99	63.20	29.90
3	2496.00	39.5 PK	74.00	-34.50	1.11 V	129	9.30	30.20
4	4824.00	55.9 PK	74.00	-18.10	1.44 V	12	19.60	36.20
4	4824.00	37.6 AV	54.00	-16.40	1.44 V	12	1.40	30.20
5	7236.00	51.7 PK	74.00	-22.30	1.50 V	214	10.00	41.70
5	7236.00	40.6 AV	54.00	-13.40	1.50 V	214	-1.10	36.20
6	9648.00	57.2 PK	81.80	-24.60	1.29 V	360	12.30	44.90
6	9648.00	52.3 AV	73.10	-20.80	1.29 V	360	7.40	41.70

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2377.00	48.1 PK	74.00	-25.90	1.45 H	47	18.40	29.70
2	*2437.00	108.2 PK			1.62 H	47	78.20	30.00
2	*2437.00	99.2 AV			1.62 H	47	69.20	29.70
3	2496.00	51.0 PK	74.00	-23.00	1.36 H	29	20.80	30.20
3	2496.00	31.8 AV	54.00	-22.20	1.36 H	29	1.70	30.00
4	4874.00	45.0 PK	74.00	-29.00	1.24 H	159	8.50	36.50
5	7311.00	50.0 PK	74.00	-24.00	1.21 H	5	8.20	41.80
6	9748.00	52.4 PK	88.20	-35.80	1.04 H	7	7.80	44.60
6	9748.00	49.3 AV	79.20	-29.90	1.04 H	7	4.70	30.20

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	2375.00	54.2 PK	74.00	-19.80	1.62 V	99	24.50	29.70
1	2375.00	37.4 AV	54.00	-16.60	1.62 V	99	7.60	29.70
2	*2437.00	113.5 PK			1.34 V	78	83.50	30.00
2	*2437.00	104.3 AV			1.34 V	78	74.30	30.00
3	2496.00	56.5 PK	74.00	-17.50	1.38 V	72	26.30	30.20
3	2496.00	36.8 AV	54.00	-17.20	1.38 V	72	6.60	30.20
4	4874.00	53.7 PK	74.00	-20.30	1.83 V	111	17.20	36.50
4	4874.00	50.2 AV	54.00	-3.80	1.83 V	111	13.70	36.50
5	7311.00	54.6 PK	74.00	-19.40	1.09 V	12	12.90	41.80
5	7311.00	50.6 AV	54.00	-3.40	1.09 V	12	8.90	41.80
6	9748.00	56.1 PK	93.50	-37.40	1.25 V	8	11.50	44.60
6	9748.00	53.1 AV	84.30	-31.20	1.25 V	8	8.50	44.60

- 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
 6. “ * “ : Fundamental frequency



EUT	IEEE 802.11g miniPCI	MODEL	WN4401
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	19 deg. C, 76%RH, 979 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	2374.00	42.5 PK	74.00	-31.50	1.62 H	14	12.80	29.70
2	*2462.00	89.4 PK			1.40 H	21	59.30	30.10
2	*2462.00	79.8 AV			1.40 H	21	49.70	29.70
3	2499.00	54.9 PK	74.00	-19.10	1.29 H	87	24.70	30.20
3	2499.00	34.6 AV	54.00	-19.40	1.29 H	87	4.40	30.10
4	4924.00	46.9 PK	74.00	-27.10	1.24 H	111	10.20	36.70
5	7386.00	44.7 PK	74.00	-29.30	1.36 H	21	2.90	41.80
6	9848.00	47.1 PK	79.40	-32.30	1.31 H	49	2.70	44.40

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	2376.00	47.8 PK	74.00	-26.20	1.66 V	25	18.00	29.70
2	*2462.00	96.8 PK			1.34 V	77	66.80	30.10
2	*2462.00	88.1 AV			1.34 V	77	58.00	29.70
3	2496.00	62.2 PK	74.00	-11.80	1.19 V	89	32.00	30.20
3	2496.00	40.9 AV	54.00	-13.10	1.19 V	89	10.70	30.10
4	4924.00	49.8 PK	74.00	-24.20	1.00 V	12	13.10	36.70
5	7386.00	47.9 PK	74.00	-26.10	1.30 V	143	6.00	41.80
6	9848.00	53.5 PK	76.80	-23.30	1.16 V	25	9.10	44.40
6	9848.00	49.7 AV	68.10	-18.40	1.16 V	25	5.40	30.20

- 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
 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

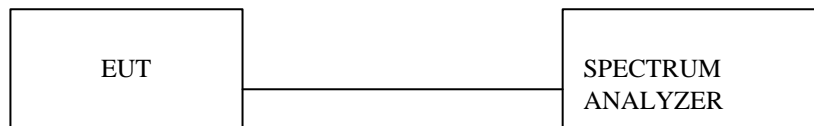
NOTE:

- 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 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

4.3.4 TEST SETUP



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

4.3.5 EUT OPERATING CONDITIONS

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



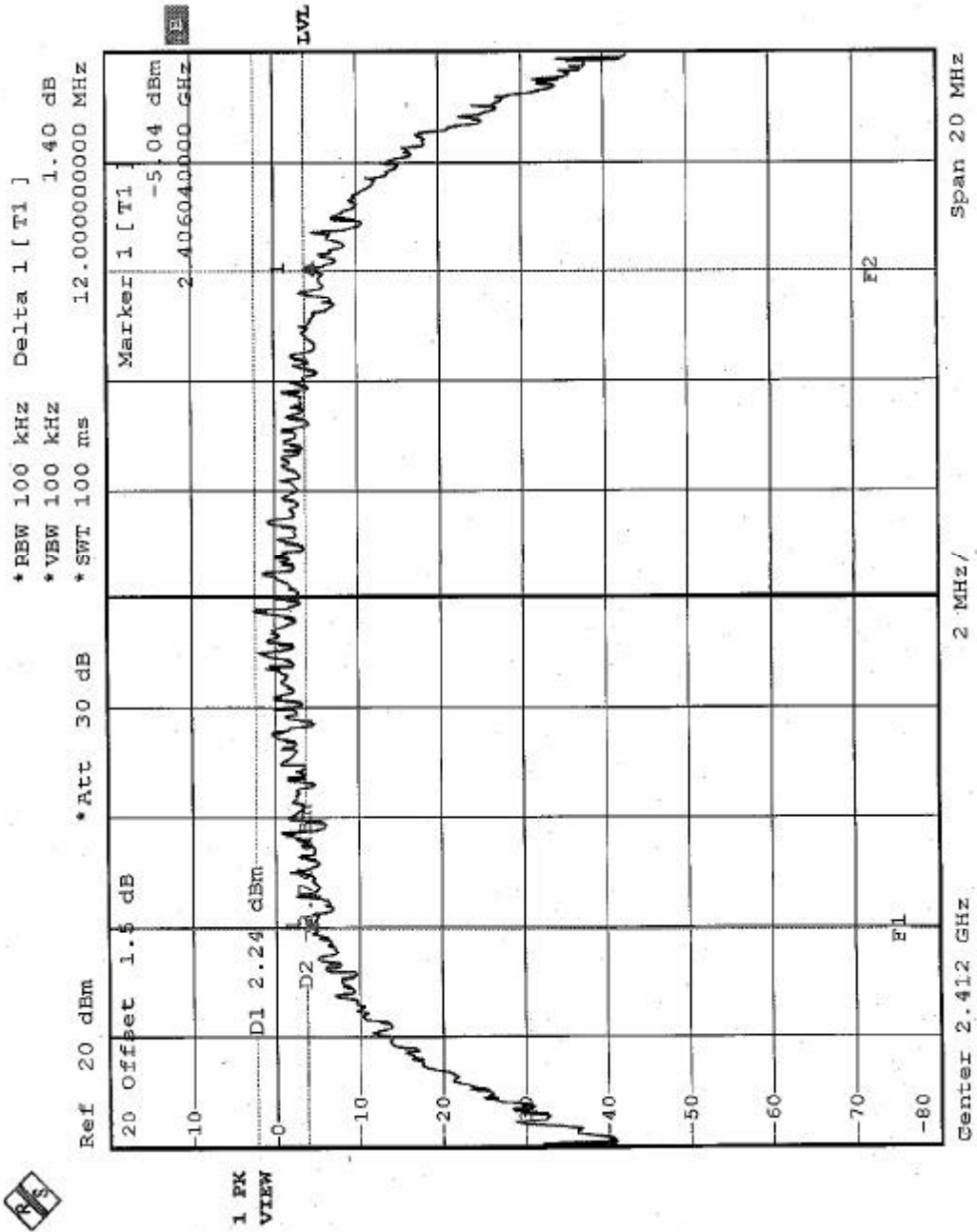
4.3.6 TEST RESULTS(A)-DSSS

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 979 hPa
TEST MODE	Antenna 1	TESTED BY	Hunk Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.00	0.5	PASS
6	2437	11.08	0.5	PASS
11	2462	12.04	0.5	PASS

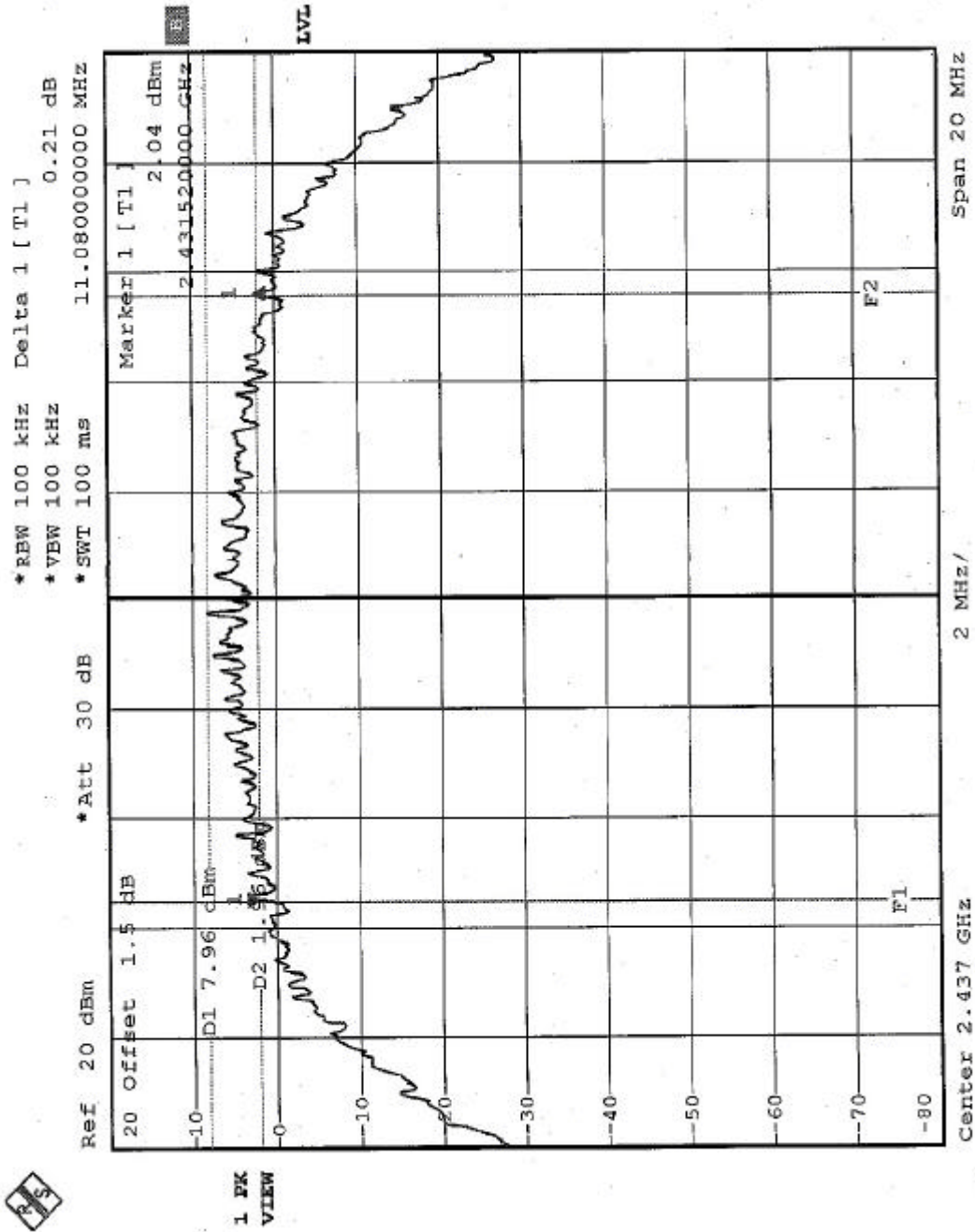


CH1



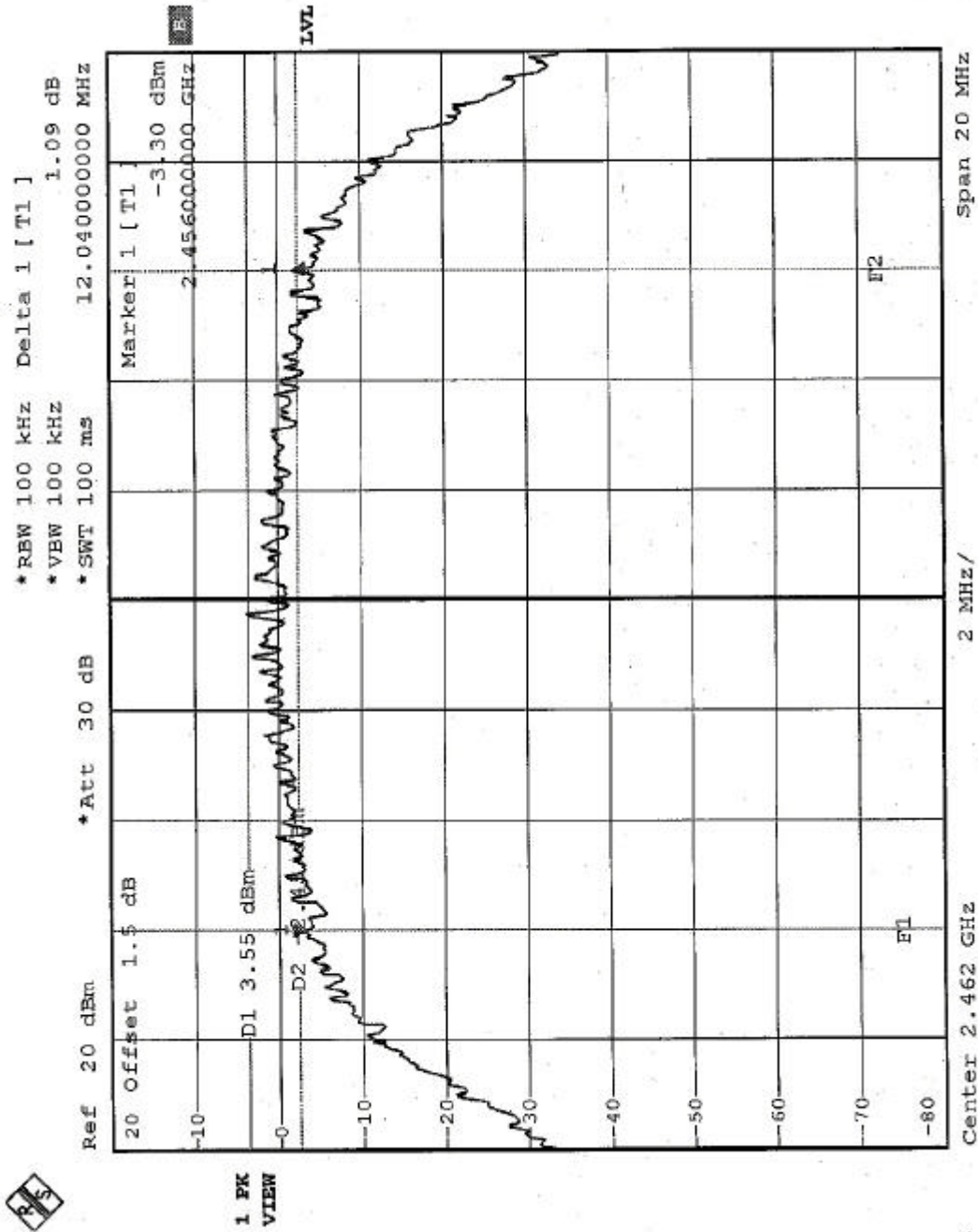


CH6





CH11





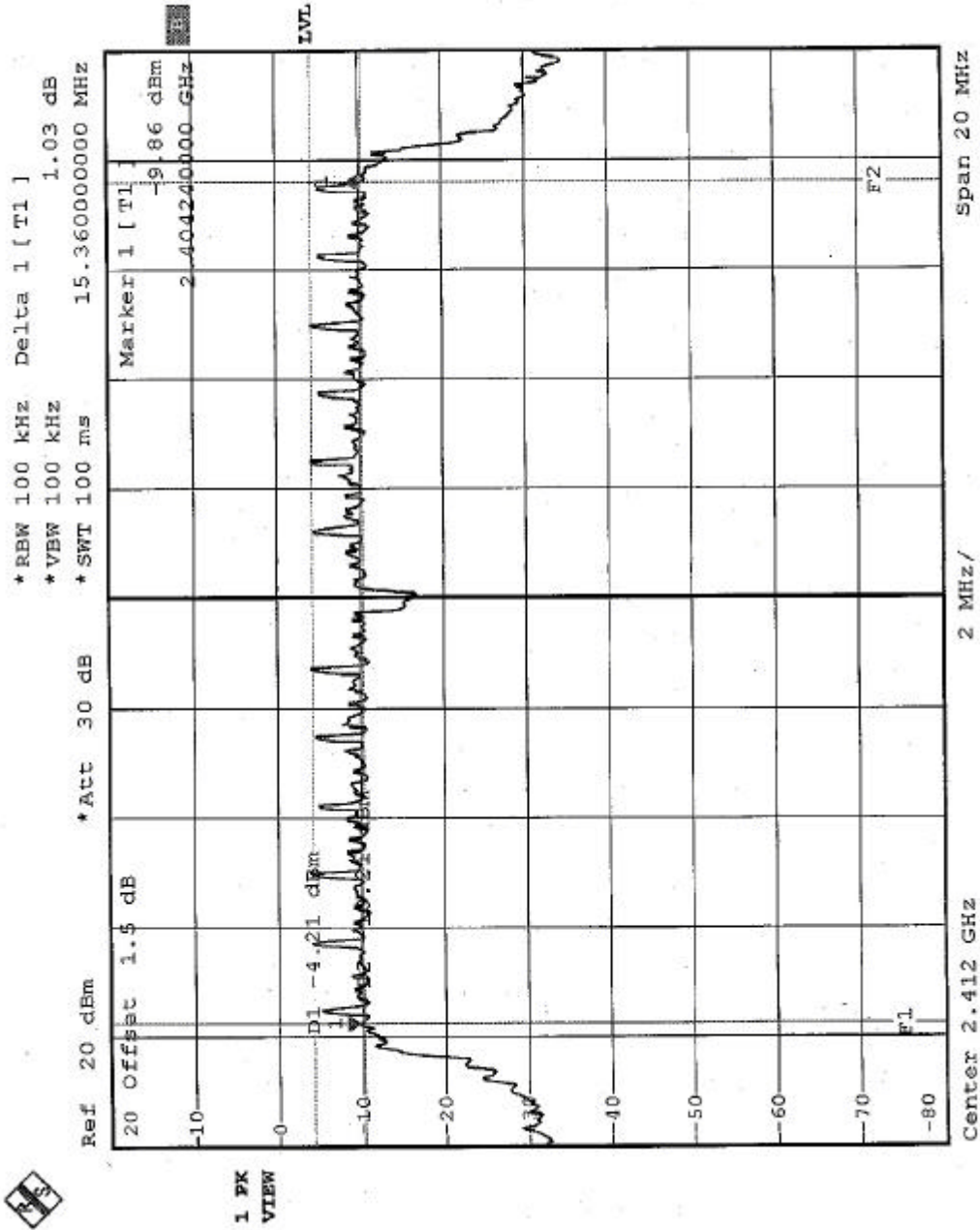
4.3.7 TEST RESULTS(A)-OFDM

EUT	IEEE 802.11g miniPCI	MODEL	WN4401
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20 deg. C, 60 %RH, 979 hPa
TEST MODE	Antenna 1	TESTED BY	Hunk Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	15.36	0.5	PASS
6	2437	15.24	0.5	PASS
11	2462	15.44	0.5	PASS



CH1





CH6

