



STANDARD SECTION 15.247

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.2 PK	74.00	-27.80	1.46 H	58	9.20	37.00
2	#5440.00	44.6 PK	74.00	-29.40	1.68 H	317	7.60	37.00
3	*5785.00	105.9 PK			1.25 H	4	68.30	37.60
3	*5785.00	97.7 AV			1.25 H	4	60.10	37.00
4	#11570.00	57.1 PK	74.00	-16.90	1.36 H	26	6.00	51.10
4	#11570.00	45.9 AV	54.00	-8.10	1.36 H	26	-5.30	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	#5088.00	51.0 PK	74.00	-23.00	1.11 V	99	13.90	37.00
1	#5088.00	43.2 AV	54.00	-10.80	1.11 V	99	6.20	37.00
2	#5440.00	52.1 PK	74.00	-21.90	1.39 V	254	15.00	37.00
2	#5440.00	43.4 AV	54.00	-10.60	1.39 V	254	6.40	37.00
3	*5785.00	113.6 PK			1.06 V	325	76.00	37.60
3	*5785.00	105.8 AV			1.06 V	325	68.20	37.60
4	#11570.00	58.9 PK	74.00	-15.10	1.58 V	4	7.80	51.10
4	#11570.00	50.1 AV	54.00	-3.90	1.58 V	4	-1.00	51.10

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	44.1 PK	74.00	-29.90	1.52 H	48	7.10	37.00
2	#5440.00	43.3 PK	74.00	-30.70	1.01 H	249	6.30	37.00
3	*5825.00	105.9 PK			1.24 H	98	68.20	37.70
3	*5825.00	96.0 AV			1.24 H	98	58.30	37.00
4	#11650.00	55.9 PK	74.00	-18.10	1.69 H	326	5.10	50.80
4	#11650.00	45.6 AV	54.00	-8.40	1.69 H	326	-5.20	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	#5088.00	51.0 PK	74.00	-23.00	1.21 V	9	13.90	37.00
1	#5088.00	44.2 AV	54.00	-9.80	1.21 V	9	7.20	37.00
2	#5440.00	53.1 PK	74.00	-20.90	1.18 V	285	16.00	37.00
2	#5440.00	46.4 AV	54.00	-7.60	1.18 V	285	9.30	37.00
3	*5825.00	113.5 PK			1.02 V	245	75.80	37.70
3	*5825.00	105.3 AV			1.02 V	245	67.60	37.70
4	#11650.00	58.0 PK	74.00	-16.00	1.54 V	24	7.20	50.80
4	#11650.00	49.9 AV	54.00	-4.10	1.54 V	24	-0.90	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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	1
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.1 PK	74.00	-27.90	1.25 H	69	9.00	37.00
2	#5150.00	52.2 PK	74.00	-21.80	1.57 H	162	15.20	37.00
2	#5150.00	45.1 AV	54.00	-8.90	1.57 H	162	8.10	37.00
3	*5210.00	98.3 PK			1.04 H	9	61.30	37.00
3	*5210.00	90.3 AV			1.04 H	9	53.30	37.00
4	#5440.00	43.3 PK	74.00	-30.70	1.45 H	248	6.30	37.00
5	10420.00	51.0 PK	68.30	-17.30	1.25 H	24	6.10	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	51.2 PK	74.00	-22.80	1.25 V	24	14.20	37.00
1	#5088.00	46.2 AV	54.00	-7.80	1.25 V	24	9.20	37.00
2	#5150.00	59.4 PK	74.00	-14.60	1.21 V	5	22.30	37.00
2	#5150.00	48.2 AV	54.00	-5.80	1.21 V	5	11.20	37.00
3	*5210.00	105.3 PK			1.57 V	45	68.30	37.00
3	*5210.00	97.0 AV			1.57 V	45	60.00	37.00
4	#5440.00	52.9 PK	74.00	-21.10	1.28 V	54	15.90	37.00
4	#5440.00	43.3 AV	54.00	-10.70	1.28 V	54	6.30	37.00
5	10420.00	58.1 PK	68.30	-10.20	1.25 V	24	13.20	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	2
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	43.5 PK	74.00	-30.50	1.20 H	222	6.50	37.00
2	*5250.00	102.2 PK			1.02 H	59	65.20	37.00
2	*5250.00	89.7 AV			1.02 H	59	52.70	37.00
3	#5440.00	43.9 PK	74.00	-30.10	1.63 H	265	6.90	37.00
4	10500.00	52.1 PK	68.30	-16.20	1.54 H	25	7.10	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	51.0 PK	74.00	-23.00	1.03 V	54	13.90	37.00
1	#5088.00	44.2 AV	54.00	-9.80	1.03 V	54	7.20	37.00
2	*5250.00	105.2 PK			1.65 V	352	68.20	37.00
2	*5250.00	97.0 AV			1.65 V	352	60.00	37.00
3	#5440.00	53.5 PK	74.00	-20.50	1.68 V	42	16.50	37.00
3	#5440.00	46.4 AV	54.00	-7.60	1.68 V	42	9.30	37.00
4	10500.00	58.1 PK	68.30	-10.20	1.35 V	149	13.10	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.1 PK	74.00	-27.90	1.54 H	110	9.10	37.00
2	*5290.00	102.3 PK			1.55 H	219	65.20	37.00
2	*5290.00	94.6 AV			1.55 H	219	57.60	37.00
3	#5350.00	49.6 PK	74.00	-24.40	1.00 H	311	12.50	37.00
4	#5440.00	45.2 PK	74.00	-28.80	1.08 H	78	8.20	37.00
5	10580.00	51.7 PK	68.30	-16.60	1.05 H	12	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	#5120.00	50.6 PK	74.00	-23.40	1.68 V	321	13.60	37.00
2	*5290.00	111.0 PK			1.22 V	8	74.00	37.00
2	*5290.00	102.2 AV			1.22 V	8	65.20	37.00
3	#5350.00	52.3 PK	74.00	-21.70	1.46 V	201	15.20	37.00
3	#5350.00	44.1 AV	54.00	-9.90	1.46 V	201	7.00	37.00
4	#5440.00	50.7 PK	74.00	-23.30	1.78 V	74	13.70	37.00
5	10580.00	53.3 PK	68.30	-15.00	1.48 V	92	7.60	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



STANDARD SECTION 15.247

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	44.1 PK	74.00	-29.90	1.63 H	126	7.10	37.00
2	#5440.00	43.5 PK	74.00	-30.50	1.04 H	69	6.50	37.00
3	*5760.00	97.6 PK			1.04 H	358	60.00	37.60
3	*5760.00	90.9 AV			1.04 H	358	53.30	37.00
4	#11520.00	56.0 PK	74.00	-18.00	1.40 H	139	4.70	51.30
4	#11520.00	46.0 AV	54.00	-8.00	1.40 H	139	-5.30	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	51.8 PK	74.00	-22.20	1.86 V	249	14.80	37.00
1	#5120.00	46.2 AV	54.00	-7.80	1.86 V	249	9.20	37.00
2	#5440.00	50.5 PK	74.00	-23.50	1.08 V	63	13.50	37.00
3	*5760.00	105.7 PK			1.54 V	21	68.10	37.60
3	*5760.00	100.2 AV			1.54 V	21	62.60	37.00
4	#11520.00	56.0 PK	74.00	-18.00	1.01 V	99	4.70	51.30
4	#11520.00	50.2 AV	54.00	-3.80	1.01 V	99	-1.10	37.60

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.2 PK	74.00	-27.80	1.25 H	152	9.10	37.00
2	#5440.00	47.7 PK	74.00	-26.30	1.01 H	214	10.70	37.00
3	*5800.00	96.9 PK			1.55 H	9	59.20	37.70
3	*5800.00	90.7 AV			1.55 H	9	53.00	37.00
4	#11600.00	50.0 PK	74.00	-24.00	1.55 H	146	-1.00	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	52.0 PK	74.00	-22.00	1.47 V	254	15.00	37.00
1	#5120.00	46.1 AV	54.00	-7.90	1.47 V	254	9.10	37.00
2	#5440.00	50.7 PK	74.00	-23.30	1.05 V	32	13.70	37.00
3	*5800.00	106.7 PK			1.02 V	357	69.00	37.70
3	*5800.00	100.5 AV			1.02 V	357	62.80	37.00
4	#11600.00	55.6 PK	74.00	-18.40	1.00 V	1	4.60	51.00
4	#11600.00	49.8 AV	54.00	-4.20	1.00 V	1	-1.20	37.70

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.



5.2.9 TEST RESULTS(II) -ANTENNA 7

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 965 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	125.04	24.1 QP	43.50	-19.40	1.27 H	8	12.00	12.00
2	250.31	23.0 QP	46.00	-23.00	1.11 H	251	10.00	13.00
3	264.20	24.0 QP	46.00	-22.00	1.69 H	66	10.00	14.00
4	307.74	27.7 QP	46.00	-18.30	1.17 H	162	13.30	14.30
5	352.36	30.8 QP	46.00	-15.20	1.68 H	9	15.30	15.50
6	375.02	26.4 QP	46.00	-19.60	1.55 H	103	10.20	16.20
7	480.11	28.2 QP	46.00	-17.80	1.01 H	219	9.30	18.90
8	500.16	31.5 QP	46.00	-14.50	1.04 H	81	12.20	19.30
9	573.14	30.0 QP	46.00	-16.00	1.67 H	44	8.70	21.30
10	704.00	32.3 QP	46.00	-13.70	1.54 H	21	9.80	22.60

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	48.05	34.0 QP	40.00	-6.00	1.58 V	96	24.50	9.50
2	125.08	24.1 QP	43.50	-19.40	3.25 V	41	12.00	12.00
3	208.99	23.3 QP	43.50	-20.20	1.45 V	344	14.50	8.90
4	250.03	26.1 QP	46.00	-19.90	1.16 V	334	13.00	13.00
5	352.04	27.2 QP	46.00	-18.80	1.62 V	254	11.70	15.50
6	415.99	31.2 QP	46.00	-14.80	1.59 V	240	13.60	17.70
7	439.99	27.6 QP	46.00	-18.40	1.19 V	54	9.70	18.00
8	480.01	31.1 QP	46.00	-14.90	1.46 V	231	12.20	18.90
9	500.04	33.2 QP	46.00	-12.80	1.32 V	172	13.90	19.30
10	625.04	33.0 QP	46.00	-13.00	1.55 V	294	11.30	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.8 PK	74.00	-27.20	1.68 H	30	9.80	37.00
2	*5260.00	104.0 PK			1.50 H	256	67.00	37.00
2	*5260.00	96.6 AV			1.50 H	256	59.50	37.00
3	#5440.00	46.7 PK	74.00	-27.30	1.57 H	48	9.70	37.00
4	10520.00	54.2 PK	68.30	-14.10	1.29 H	65	9.00	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	#5120.00	46.8 PK	74.00	-27.20	1.68 V	30	9.80	37.00
2	*5260.00	104.0 PK			1.50 V	256	67.00	37.00
2	*5260.00	96.6 AV			1.50 V	256	59.50	37.00
3	#5440.00	46.7 PK	74.00	-27.30	1.57 V	48	9.70	37.00
4	10520.00	54.2 PK	68.30	-14.10	1.29 V	65	9.00	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	45.1 PK	74.00	-28.90	1.63 H	269	8.10	37.00
2	*5320.00	104.5 PK			1.74 H	59	67.50	37.00
2	*5320.00	94.3 AV			1.74 H	59	57.30	37.00
3	#5350.00	55.2 PK	74.00	-18.80	1.35 H	2	18.20	37.00
3	#5350.00	45.4 AV	54.00	-8.60	1.35 H	2	8.40	37.00
4	#5440.00	44.9 PK	74.00	-29.10	1.07 H	360	7.90	37.00
5	#10640.00	52.4 PK	74.00	-21.60	1.85 H	64	6.10	46.30
5	#10640.00	43.3 AV	54.00	-10.70	1.85 H	64	-2.90	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	50.3 PK	74.00	-23.70	1.58 V	24	13.20	37.00
2	*5320.00	111.0 PK			1.07 V	54	74.00	37.00
2	*5320.00	102.9 AV			1.07 V	54	65.90	37.00
3	#5350.00	57.2 PK	74.00	-16.80	1.07 V	46	20.10	37.00
3	#5350.00	49.5 AV	54.00	-4.50	1.07 V	46	12.50	37.00
4	#5440.00	50.4 PK	74.00	-23.60	1.58 V	326	13.40	37.00
5	#10640.00	52.3 PK	74.00	-21.70	1.20 V	336	6.00	46.30
5	#10640.00	45.8 AV	54.00	-8.20	1.20 V	336	-0.50	37.00

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 15.247

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.1 PK	74.00	-27.90	1.52 H	101	9.00	37.00
2	#5440.00	44.5 PK	74.00	-29.50	1.08 H	55	7.40	37.00
3	*5745.00	105.8 PK			1.63 H	332	68.30	37.60
3	*5745.00	95.8 AV			1.63 H	332	58.20	37.00
4	#11490.00	56.3 PK	74.00	-17.70	1.58 H	54	5.00	51.30
4	#11490.00	47.7 AV	54.00	-6.30	1.58 H	54	-3.60	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	#5088.00	51.5 PK	74.00	-22.50	1.47 V	54	14.50	37.00
1	#5088.00	44.2 AV	54.00	-9.80	1.47 V	54	7.10	37.00
2	5440.00	50.7 PK	74.00	-23.30	1.05 V	24	13.70	37.00
3	*5745.00	113.8 PK			1.54 V	247	76.30	37.60
3	*5745.00	106.8 AV			1.54 V	247	69.20	37.00
4	#11490.00	62.6 PK	74.00	-11.40	1.39 V	160	11.30	51.30
4	#11490.00	51.3 AV	54.00	-2.70	1.39 V	160	0.00	37.60

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.9 PK	74.00	-27.10	1.36 H	150	9.90	37.00
2	#5440.00	45.8 PK	74.00	-28.20	1.35 H	66	8.80	37.00
3	*5785.00	107.0 PK			1.25 H	6	69.30	37.60
3	*5785.00	98.9 AV			1.25 H	6	61.30	37.00
4	#11570.00	52.0 PK	74.00	-22.00	1.58 H	52	0.90	51.10
4	#11570.00	44.1 AV	54.00	-9.90	1.58 H	52	-7.00	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	#5088.00	51.1 PK	74.00	-22.90	1.45 V	249	14.10	37.00
1	#5088.00	44.2 AV	54.00	-9.80	1.45 V	249	7.20	37.00
2	#5440.00	52.0 PK	74.00	-22.00	1.25 V	59	15.00	37.00
2	#5440.00	44.1 AV	54.00	-9.90	1.25 V	59	7.00	37.00
3	*5785.00	114.6 PK			1.25 V	24	77.00	37.60
3	*5785.00	106.9 AV			1.25 V	24	69.20	37.60
4	#11570.00	57.1 PK	74.00	-16.90	1.35 V	326	6.00	51.10
4	#11570.00	50.1 AV	54.00	-3.90	1.35 V	326	-1.10	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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.5 PK	74.00	-27.50	1.54 H	219	9.50	37.00
2	#5440.00	45.6 PK	74.00	-28.40	1.69 H	66	8.60	37.00
3	*5825.00	107.4 PK			1.54 H	77	69.70	37.70
3	*5825.00	96.9 AV			1.54 H	77	59.20	37.00
4	#11650.00	51.9 PK	74.00	-22.10	1.58 H	154	1.10	50.80
4	#11650.00	43.9 AV	54.00	-10.10	1.58 H	154	-6.90	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	#5088.00	54.1 PK	74.00	-19.90	1.52 V	1	17.00	37.00
1	#5088.00	46.2 AV	54.00	-7.80	1.52 V	1	9.20	37.00
2	#5440.00	50.7 PK	74.00	-23.30	1.04 V	99	13.70	37.00
3	*5825.00	113.9 PK			1.11 V	126	76.20	37.70
3	*5825.00	107.0 AV			1.11 V	126	69.20	37.00
4	#11650.00	58.8 PK	74.00	-15.20	1.54 V	24	8.00	50.80
4	#11650.00	50.9 AV	54.00	-3.10	1.54 V	24	0.10	37.70

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	46.1 PK	74.00	-27.90	1.54 H	111	9.10	37.00
2	*5290.00	103.6 PK			3.15 H	69	66.60	37.00
2	*5290.00	92.3 AV			3.15 H	69	55.30	37.00
3	#5350.00	50.0 PK	74.00	-24.00	1.08 H	213	13.00	37.00
4	#5440.00	46.0 PK	74.00	-28.00	1.15 H	77	9.00	37.00
5	10580.00	51.9 PK	68.30	-16.40	1.54 H	215	6.20	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	53.1 PK	74.00	-20.90	1.11 V	119	16.00	37.00
1	#5088.00	44.3 AV	54.00	-9.70	1.11 V	119	7.30	37.00
2	*5290.00	112.9 PK			1.05 V	356	75.80	37.00
2	*5290.00	103.6 AV			1.05 V	356	66.60	37.00
3	#5350.00	57.1 PK	74.00	-16.90	1.62 V	249	20.10	37.00
3	#5350.00	48.4 AV	54.00	-5.60	1.62 V	249	11.40	37.00
4	#5440.00	52.9 PK	74.00	-21.10	1.64 V	148	15.90	37.00
4	#5440.00	46.0 AV	54.00	-8.00	1.64 V	148	9.00	37.00
5	10580.00	59.7 PK	68.30	-8.60	1.01 V	225	14.00	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



STANDARD SECTION 15.247

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	45.2 PK	74.00	-28.80	1.36 H	354	8.20	37.00
2	#5440.00	44.2 PK	74.00	-29.80	1.58 H	75	7.20	37.00
3	*5760.00	99.3 PK			1.07 H	244	61.70	37.60
3	*5760.00	91.8 AV			1.07 H	244	54.20	37.00
4	#11520.00	56.3 PK	74.00	-17.70	1.85 H	249	5.00	51.30
4	#11520.00	46.1 AV	54.00	-7.90	1.85 H	249	-5.20	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	54.2 PK	74.00	-19.80	1.35 V	66	17.20	37.00
1	#5120.00	46.6 AV	54.00	-7.40	1.35 V	66	9.60	37.00
2	#5440.00	51.0 PK	74.00	-23.00	1.54 V	246	14.00	37.00
2	#5440.00	44.0 AV	54.00	-10.00	1.54 V	246	7.00	37.00
3	*5760.00	106.1 PK			1.03 V	31	68.50	37.60
3	*5760.00	100.8 AV			1.03 V	31	63.20	37.60
4	#11520.00	56.3 PK	74.00	-17.70	1.36 V	291	5.00	51.30
4	#11520.00	50.4 AV	54.00	-3.60	1.36 V	291	-0.90	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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 69%RH, 965 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	47.6 PK	74.00	-26.40	1.52 H	43	10.60	37.00
2	#5440.00	48.0 PK	74.00	-26.00	1.52 H	329	11.00	37.00
3	*5800.00	99.4 PK			1.48 H	75	61.70	37.70
3	*5800.00	92.0 AV			1.48 H	75	54.30	37.00
4	#11600.00	51.0 PK	74.00	-23.00	1.08 H	24	0.00	51.00
4	#11600.00	44.8 AV	54.00	-9.20	1.08 H	24	-6.20	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	52.1 PK	74.00	-21.90	1.49 V	154	15.10	37.00
1	#5120.00	45.2 AV	54.00	-8.80	1.49 V	154	8.20	37.00
2	#5440.00	53.6 PK	74.00	-20.40	1.74 V	197	16.60	37.00
2	#5440.00	44.0 AV	54.00	-10.00	1.74 V	197	7.00	37.00
3	*5800.00	107.7 PK			1.02 V	354	70.00	37.70
3	*5800.00	101.1 AV			1.02 V	354	63.50	37.70
4	#11600.00	56.3 PK	74.00	-17.70	1.53 V	140	5.30	51.00
4	#11600.00	52.0 AV	54.00	-2.00	1.53 V	140	1.00	51.00

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.



5.2.10 TEST RESULTS(III) -ANTENNA 8

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
FREQUENCY RANGE	Below 1000MHz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 965 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	125.20	25.9 QP	43.50	-17.60	2.00 H	236	13.90	12.00
2	250.00	24.2 QP	46.00	-21.80	1.42 H	209	11.20	13.00
3	264.37	25.7 QP	46.00	-20.30	1.62 H	326	11.70	14.00
4	307.96	28.2 QP	46.00	-17.80	1.11 H	52	13.90	14.30
5	352.15	32.4 QP	46.00	-13.60	1.79 H	1	16.90	15.50
6	375.00	25.2 QP	46.00	-20.80	1.16 H	98	9.00	16.20
7	480.13	29.4 QP	46.00	-16.60	1.54 H	29	10.50	18.90
8	500.11	33.6 QP	46.00	-12.40	1.50 H	82	14.30	19.30
9	574.00	30.2 QP	46.00	-15.80	1.36 H	26	8.90	21.30
10	704.01	33.2 QP	46.00	-12.80	1.54 H	213	10.60	22.60

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	46.75	33.3 QP	40.00	-6.70	1.52 V	359	23.00	10.30
2	125.11	24.3 QP	43.50	-19.20	1.52 V	24	12.30	12.00
3	208.99	25.8 QP	43.50	-17.70	1.74 V	21	16.90	8.90
4	250.23	28.7 QP	46.00	-17.30	1.30 V	69	15.60	13.00
5	352.12	27.6 QP	46.00	-18.40	1.07 V	89	12.10	15.50
6	416.01	31.9 QP	46.00	-14.10	1.55 V	54	14.20	17.70
7	440.00	29.9 QP	46.00	-16.10	1.79 V	213	11.90	18.00
8	481.00	32.1 QP	46.00	-13.90	1.58 V	9	13.20	18.90
9	500.14	34.2 QP	46.00	-11.80	1.30 V	212	14.90	19.30
10	625.23	34.0 QP	46.00	-12.00	1.47 V	85	12.30	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	*5260.00	100.0 PK			1.65 H	100	63.00	37.00
1	*5260.00	91.3 AV			1.65 H	100	54.20	37.00
2	#5376.00	44.3 PK	74.00	-29.70	1.65 H	44	7.30	37.00
3	10520.00	49.8 PK	68.30	-18.50	1.08 H	97	4.60	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	*5260.00	107.3 PK			1.02 V	96	70.30	37.00
1	*5260.00	98.3 AV			1.02 V	96	61.20	37.00
2	#5376.00	51.1 PK	74.00	-22.90	1.59 V	69	14.00	37.00
2	#5376.00	43.2 AV	54.00	-10.80	1.59 V	69	6.10	37.00
3	10520.00	52.7 PK	68.30	-15.60	1.54 V	25	7.50	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



STANDARD SECTION 15.407

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	8
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	99.2 PK			1.78 H	52	62.20	37.00
1	*5320.00	91.3 AV			1.78 H	52	54.30	37.00
2	#5350.00	47.0 PK	74.00	-27.00	1.63 H	26	9.90	37.00
3	#5376.00	44.3 PK	74.00	-29.70	1.08 H	1	7.20	37.00
4	#10640.00	49.0 PK	74.00	-25.00	1.09 H	63	2.80	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	109.7 PK			1.07 V	96	72.60	37.00
1	*5320.00	100.2 AV			1.07 V	96	63.10	37.00
2	#5350.00	56.6 PK	74.00	-17.40	1.69 V	52	19.60	37.00
2	#5350.00	45.7 AV	54.00	-8.30	1.69 V	52	8.60	37.00
3	#5376.00	51.1 PK	74.00	-22.90	1.05 V	213	14.10	37.00
3	#5376.00	42.2 AV	54.00	-11.80	1.05 V	213	5.10	37.00
4	#10640.00	54.7 PK	74.00	-19.30	1.02 V	78	8.50	46.30
4	#10640.00	43.7 AV	54.00	-10.30	1.02 V	78	-2.60	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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	9
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	#5376.00	43.1 PK	74.00	-30.90	1.08 H	57	6.10	37.00
2	*5745.00	100.8 PK			1.68 H	54	63.20	37.60
2	*5745.00	92.6 AV			1.68 H	54	55.00	37.00
3	#11490.00	55.3 PK	74.00	-18.70	1.58 H	95	4.00	51.30
3	#11490.00	43.9 AV	54.00	-10.10	1.58 H	95	-7.50	37.60

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	#5376.00	50.9 PK	74.00	-23.10	1.02 V	111	13.80	37.00
2	*5745.00	110.1 PK			1.01 V	99	72.50	37.60
2	*5745.00	100.8 AV			1.01 V	99	63.20	37.00
3	#11490.00	59.2 PK	74.00	-14.80	1.25 V	215	7.80	51.30
3	#11490.00	48.2 AV	54.00	-5.80	1.25 V	215	-3.20	37.60

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	11
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	#5376.00	44.8 PK	74.00	-29.20	1.70 H	1	7.80	37.00
2	*5785.00	100.8 PK			1.38 H	54	63.20	37.60
2	*5785.00	92.9 AV			1.38 H	54	55.20	37.00
3	#11570.00	53.4 PK	74.00	-20.60	1.36 H	69	2.30	51.10
3	#11570.00	43.5 AV	54.00	-10.50	1.36 H	69	-7.60	37.60

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	#5376.00	50.8 PK	74.00	-23.20	1.54 V	41	13.80	37.00
2	*5785.00	110.2 PK			1.54 V	74	72.60	37.60
2	*5785.00	98.7 AV			1.54 V	74	61.10	37.00
3	#11570.00	57.0 PK	74.00	-17.00	1.29 V	65	5.90	51.10
3	#11570.00	45.9 AV	54.00	-8.10	1.29 V	65	-5.20	37.60

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal Mode	CHANNEL	13
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	#5376.00	44.1 PK	74.00	-29.90	1.07 H	96	7.00	37.00
2	*5825.00	102.4 PK			1.52 H	20	64.70	37.70
2	*5825.00	92.7 AV			1.52 H	20	55.00	37.00
3	#11650.00	53.6 PK	74.00	-20.40	1.51 H	24	2.80	50.80
3	#11650.00	42.0 AV	54.00	-12.00	1.51 H	24	-8.90	37.70

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	#5376.00	50.0 PK	74.00	-24.00	1.08 V	7	13.00	37.00
2	*5825.00	110.6 PK			1.55 V	20	72.90	37.70
2	*5825.00	101.0 AV			1.55 V	20	63.30	37.00
3	#11650.00	56.2 PK	74.00	-17.80	1.03 V	333	5.40	50.80
3	#11650.00	46.2 AV	54.00	-7.80	1.03 V	333	-4.60	37.70

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	3
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	96.4 PK			1.52 H	102	59.30	37.00
1	*5290.00	88.0 AV			1.52 H	102	51.00	37.00
2	#5350.00	47.3 PK	74.00	-26.70	1.26 H	20	10.30	37.00
3	#5376.00	44.2 PK	74.00	-29.80	1.54 H	22	7.10	37.00
4	10580.00	47.6 PK	68.30	-20.70	1.74 H	54	1.90	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	105.0 PK			1.01 V	93	68.00	37.00
1	*5290.00	96.7 AV			1.01 V	93	59.70	37.00
2	#5350.00	55.1 PK	74.00	-18.90	1.68 V	25	18.10	37.00
2	#5350.00	46.2 AV	54.00	-7.80	1.68 V	25	9.20	37.00
3	#5376.00	50.0 PK	74.00	-24.00	1.08 V	98	13.00	37.00
4	10580.00	49.6 PK	68.30	-18.70	1.52 V	99	3.90	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



STANDARD SECTION 15.247

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	4
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	#5376.00	43.1 PK	74.00	-30.90	1.28 H	78	6.10	37.00
2	*5760.00	97.7 PK			1.58 H	100	60.20	37.60
2	*5760.00	90.0 AV			1.58 H	100	52.40	37.00
3	#11520.00	52.6 PK	74.00	-21.40	1.32 H	69	1.30	51.30
3	#11520.00	41.8 AV	54.00	-12.20	1.32 H	69	-9.50	37.60

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	#5376.00	49.4 PK	74.00	-24.60	1.52 V	55	12.30	37.00
2	*5760.00	104.7 PK			1.52 V	22	67.10	37.60
2	*5760.00	97.3 AV			1.52 V	22	59.70	37.00
3	#11520.00	54.5 PK	74.00	-19.50	1.59 V	357	3.20	51.30
3	#11520.00	46.2 AV	54.00	-7.80	1.59 V	357	-5.10	37.60

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	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo Mode	CHANNEL	5
FREQUENCY RANGE	Above 1000 MHz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23 deg. C, 57%RH, 965 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	#5376.00	44.2 PK	74.00	-29.80	1.60 H	21	7.20	37.00
2	*5800.00	98.7 PK			1.36 H	57	61.00	37.70
2	*5800.00	90.6 AV			1.36 H	57	52.90	37.00
3	#11600.00	52.3 PK	74.00	-21.70	1.39 H	113	1.30	51.00
3	#11600.00	42.2 AV	54.00	-11.80	1.39 H	113	-8.80	37.70

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	#5376.00	51.8 PK	74.00	-22.20	1.07 V	88	14.80	37.00
1	#5376.00	42.2 AV	54.00	-11.80	1.07 V	88	5.10	37.00
2	*5800.00	106.0 PK			1.57 V	115	68.30	37.70
2	*5800.00	95.9 AV			1.57 V	115	58.20	37.70
3	#11600.00	54.3 PK	74.00	-19.70	1.53 V	331	3.30	51.00
3	#11600.00	45.7 AV	54.00	-8.30	1.53 V	331	-5.30	51.00

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.



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
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.

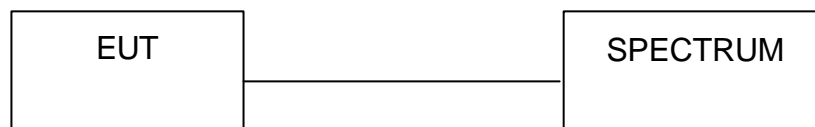
5.3.3 TEST PROCEDURE

4. The transmitter output was connected to the spectrum analyzer.
5. Set span to encompass the entire emission bandwidth of the signal.
6. Set RBW to 1MHz, VBW to 300kHz.
7. 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 (E)-Antenna 1 & Antenna 7

EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 965 hPa	TESTED BY	Eric Lee

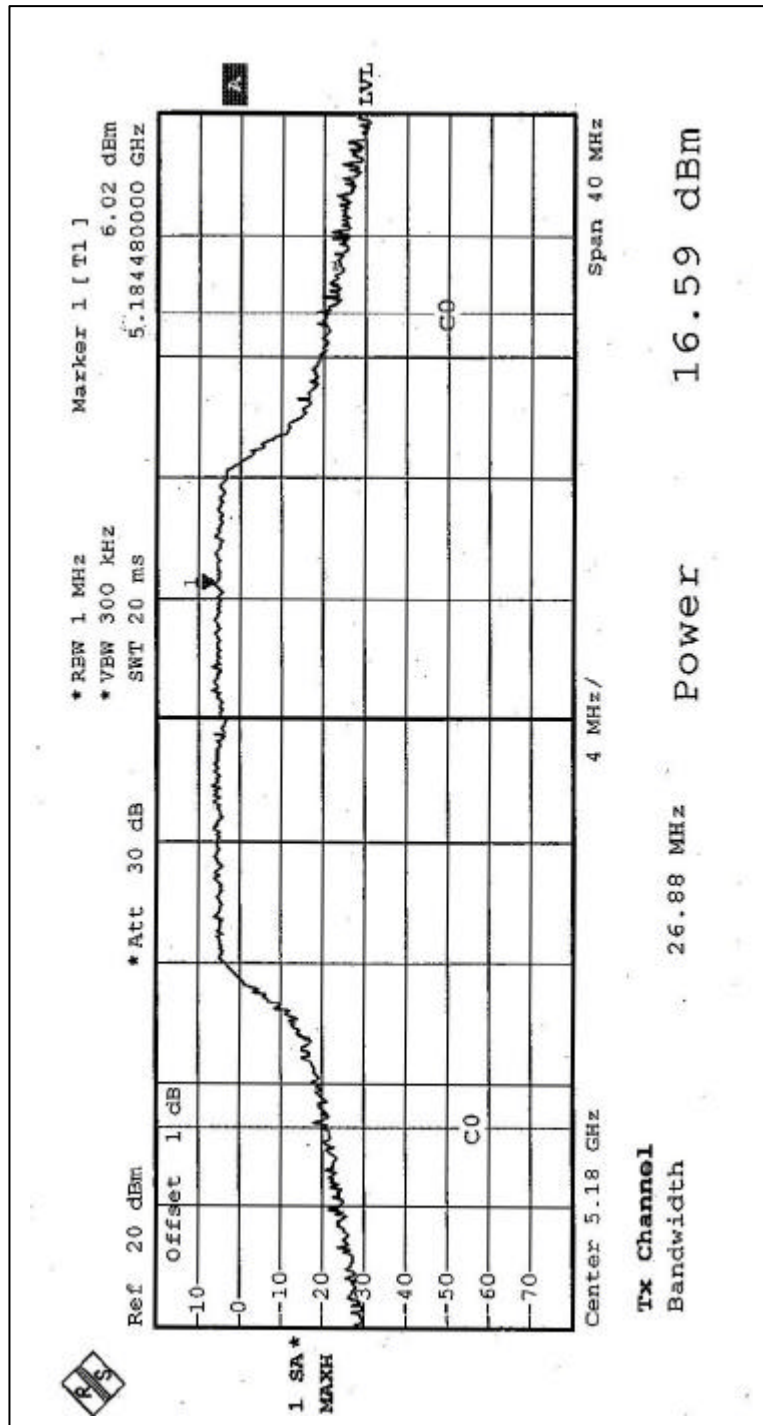
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	16.59	17	26.88	PASS
4	5240	16.75	17	26.00	PASS
5	5260	19.04	24	29.20	PASS
8	5320	19.05	24	30.56	PASS

NOTE:

1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Antenna 1: Channel 1,4,5,8
Antenna 7: Channel 5,8

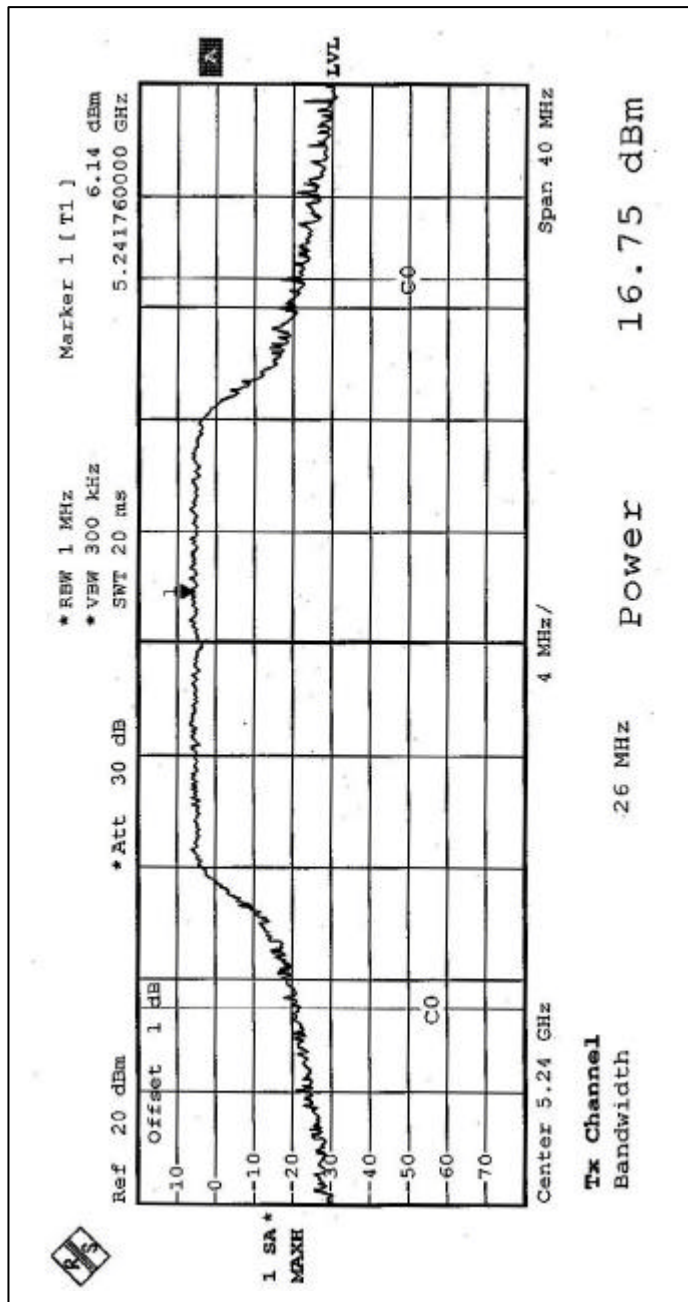


CHANNEL 1



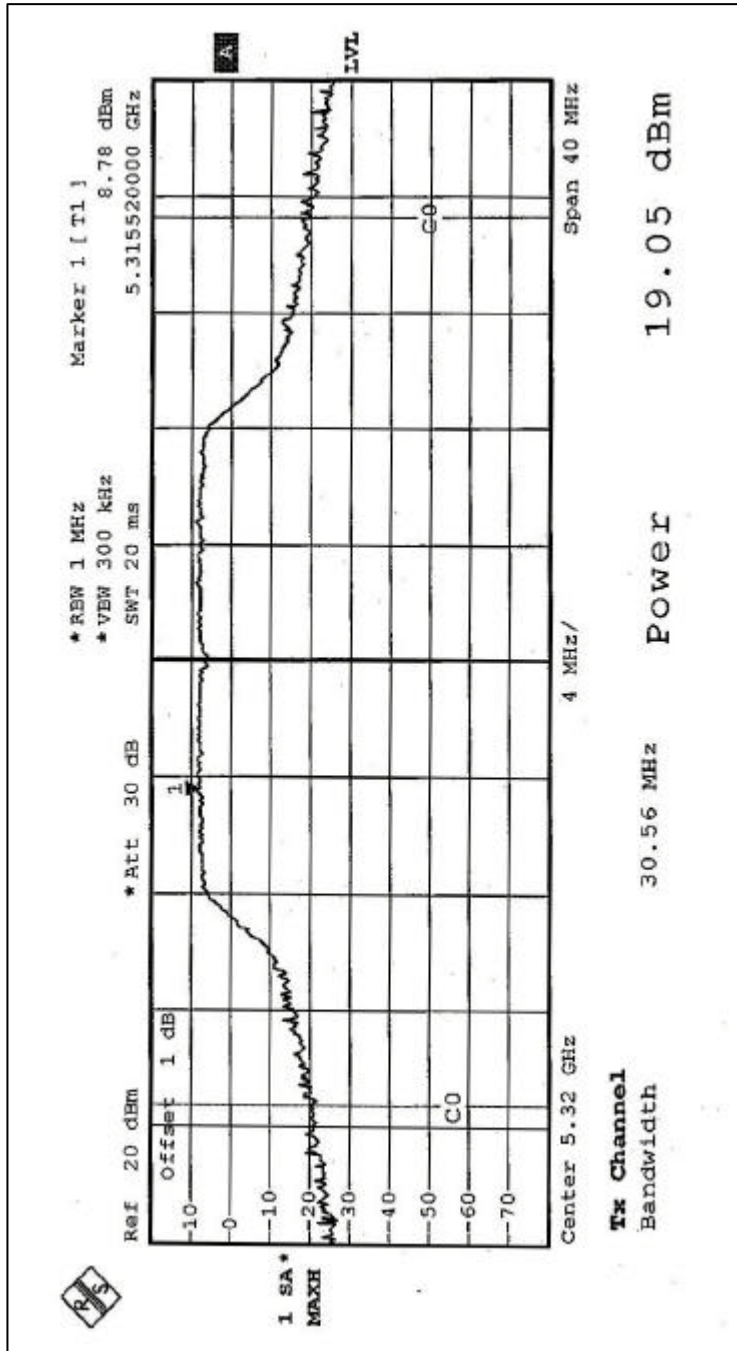


CHANNEL 4



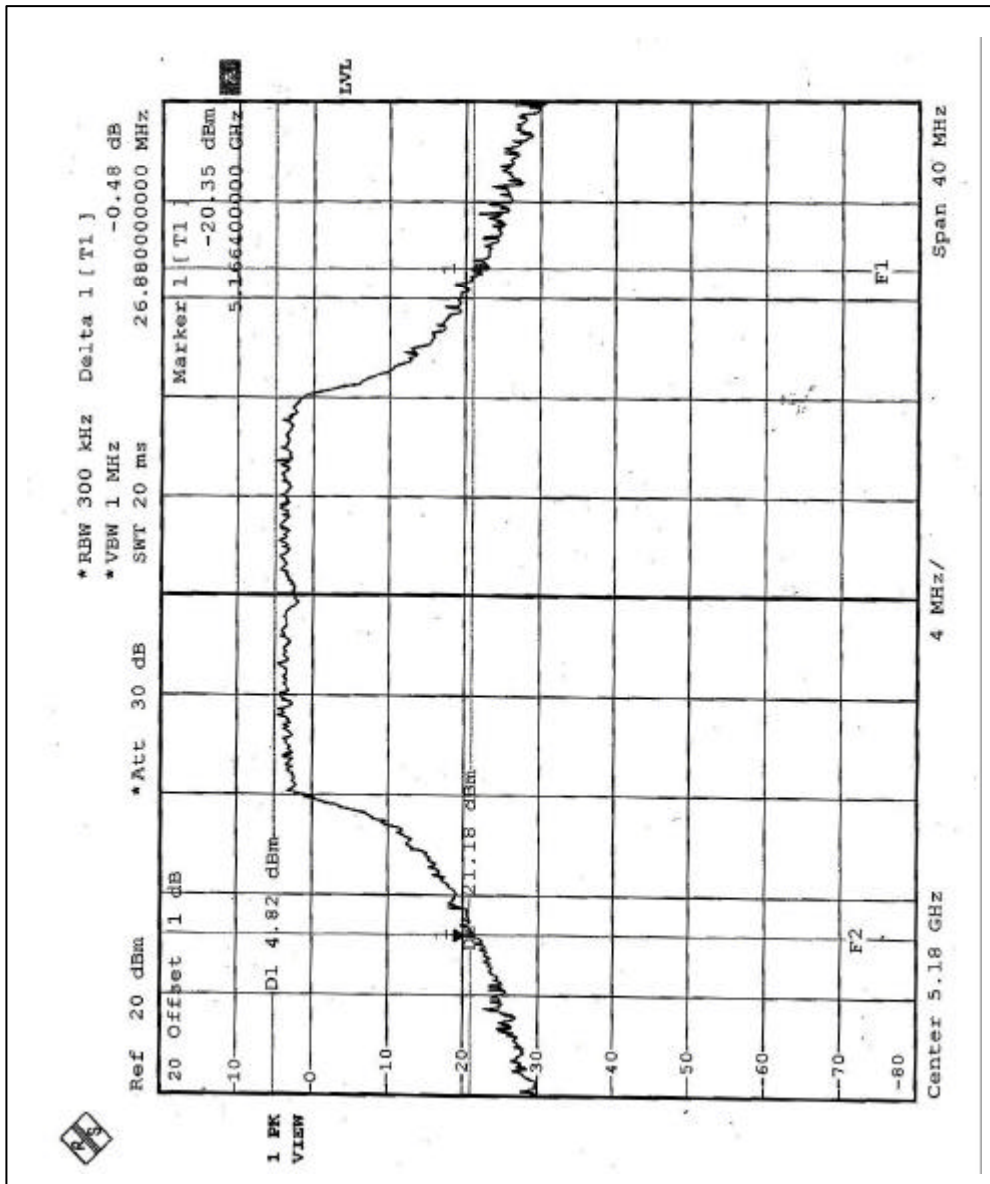


CHANNEL 8



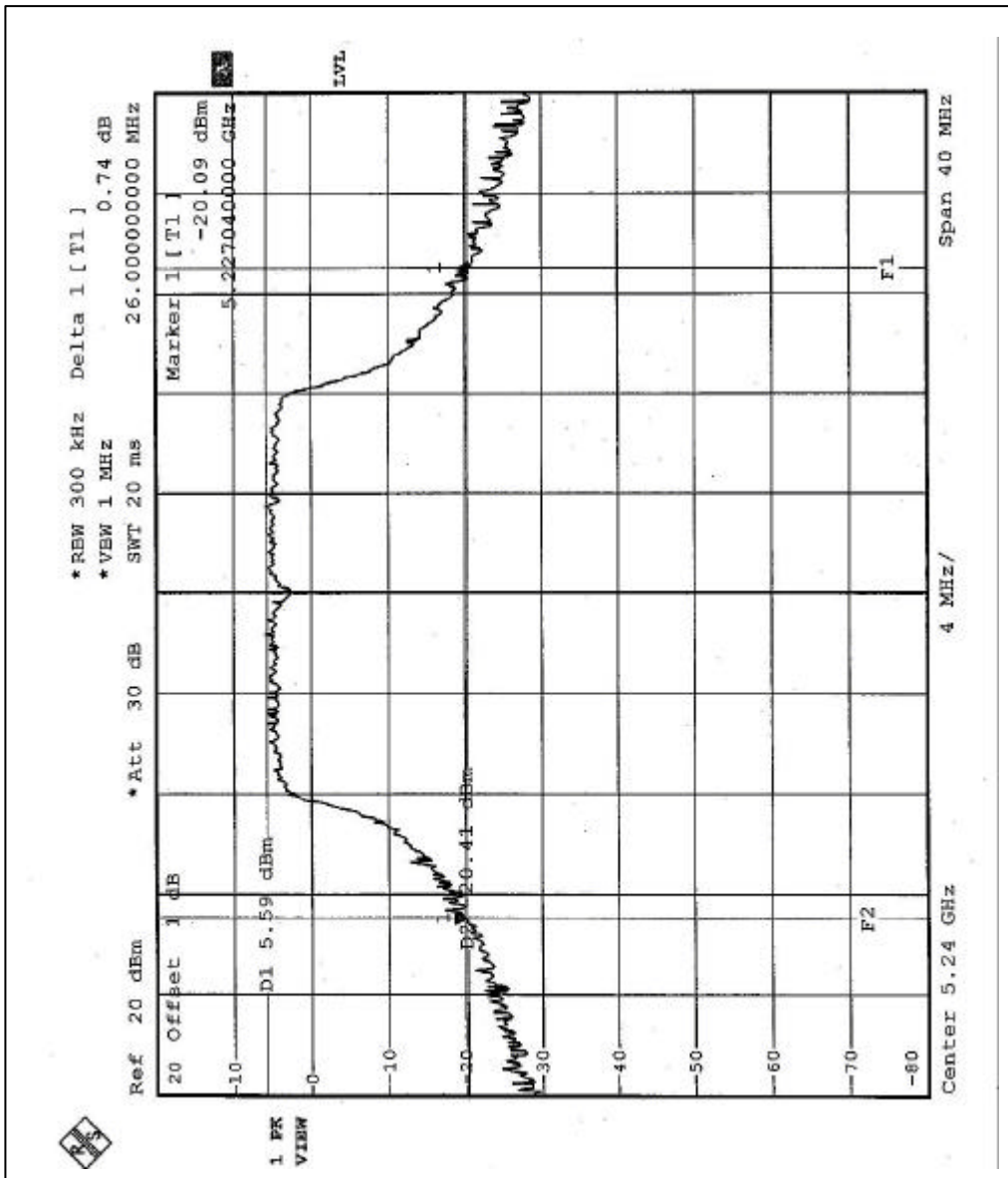


CHANNEL 1



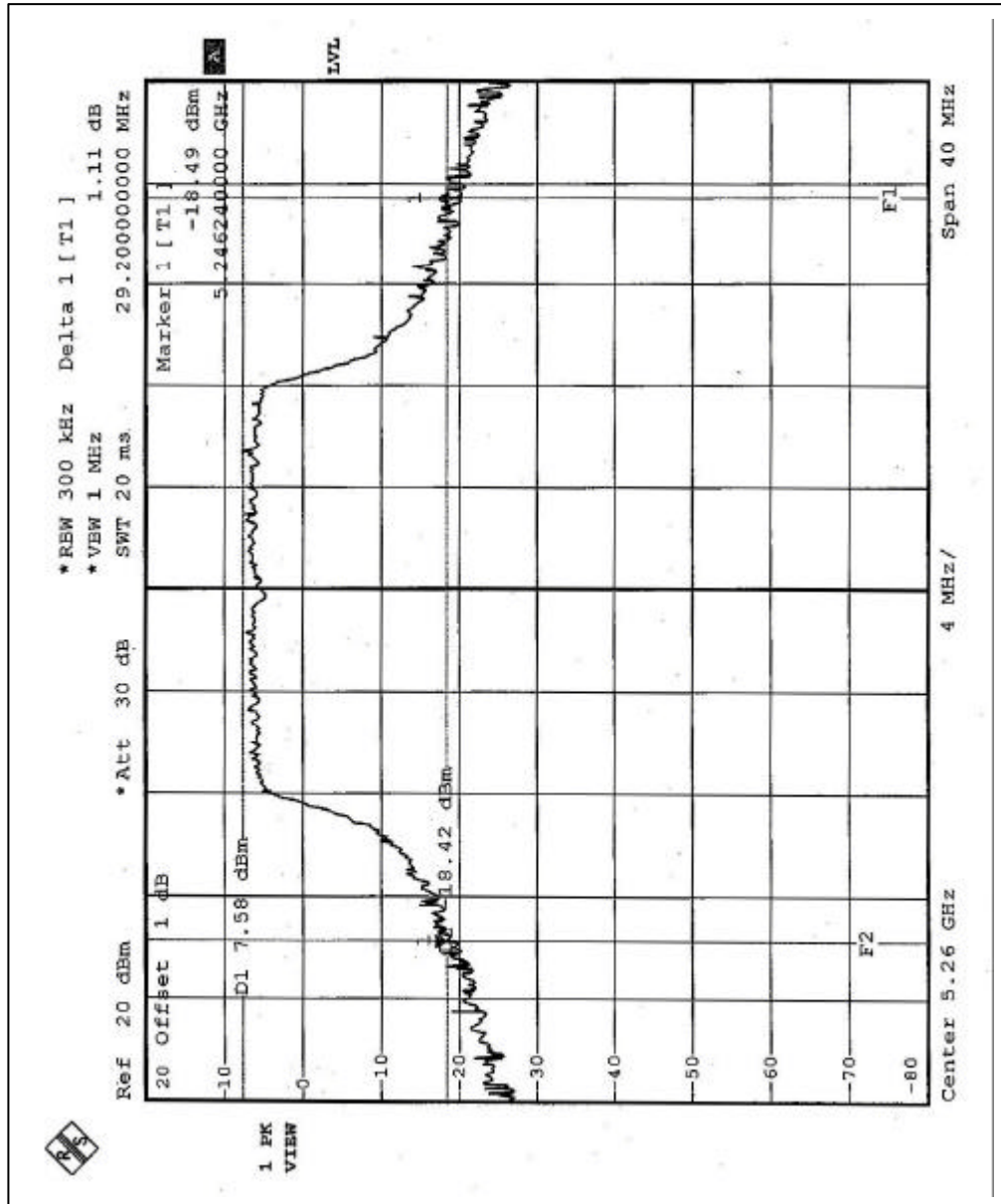


CHANNEL 4



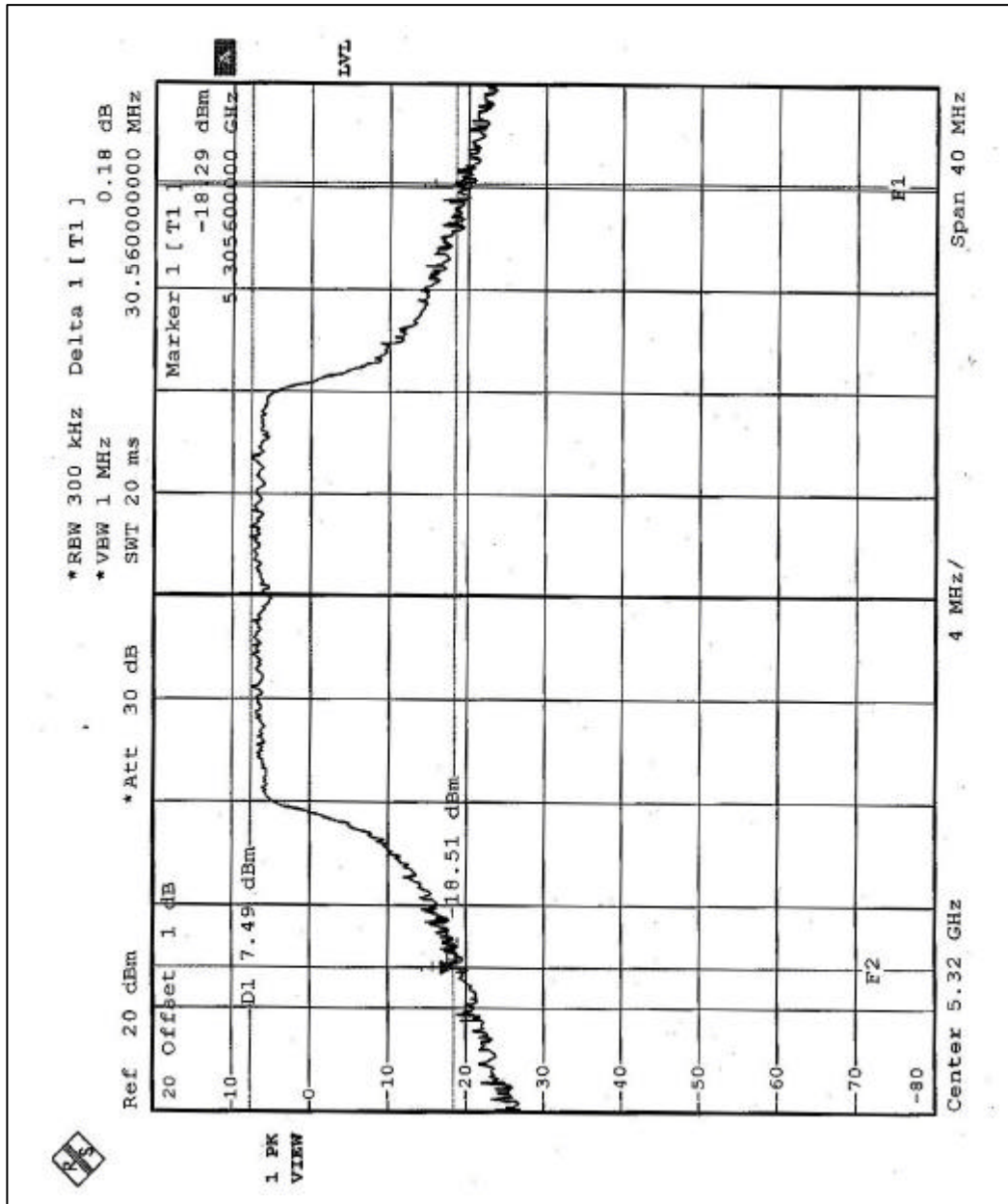


CHANNEL 5





CHANNEL 8





EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	27eg. C, 56RH, 965 hPa	TESTED BY	Eric Lee

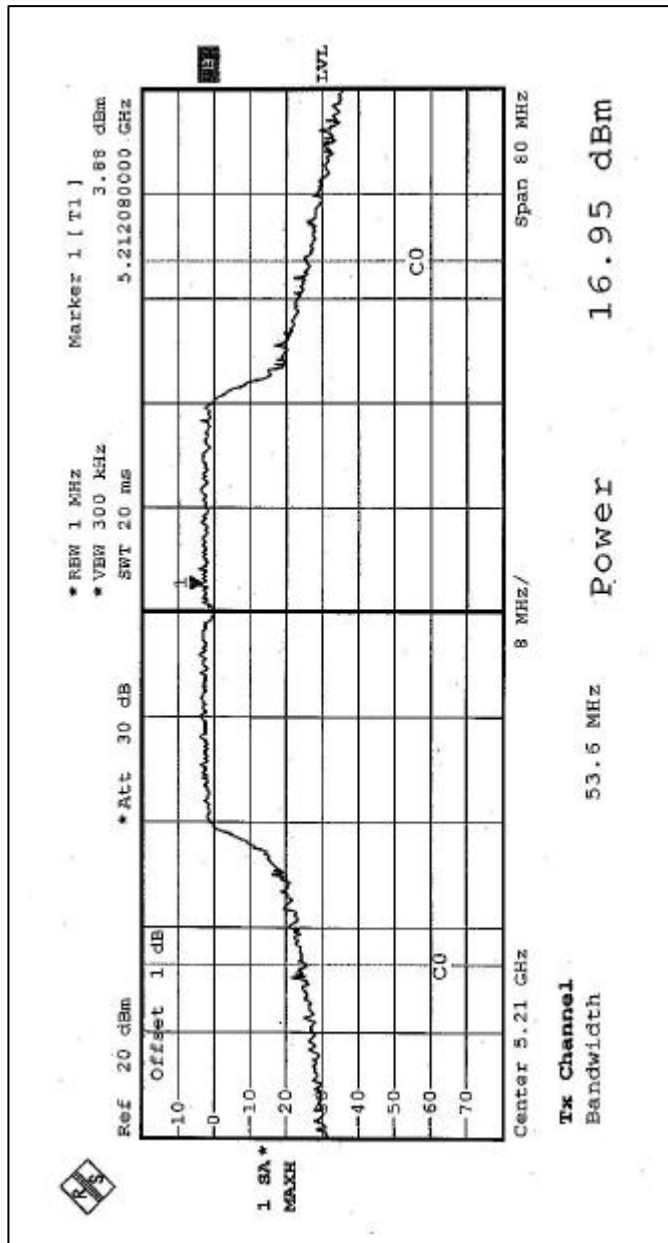
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	16.95	17	53.60	PASS
2	5250	16.72	17	57.92	PASS
3	5290	19.20	24	27.92	PASS

NOTE:

1. The 26dBc Occupied Bandwidth plot, please refer to the following pages.
2. Antenna 1: Channel 1,2,3
Antenna 7: Channel 3

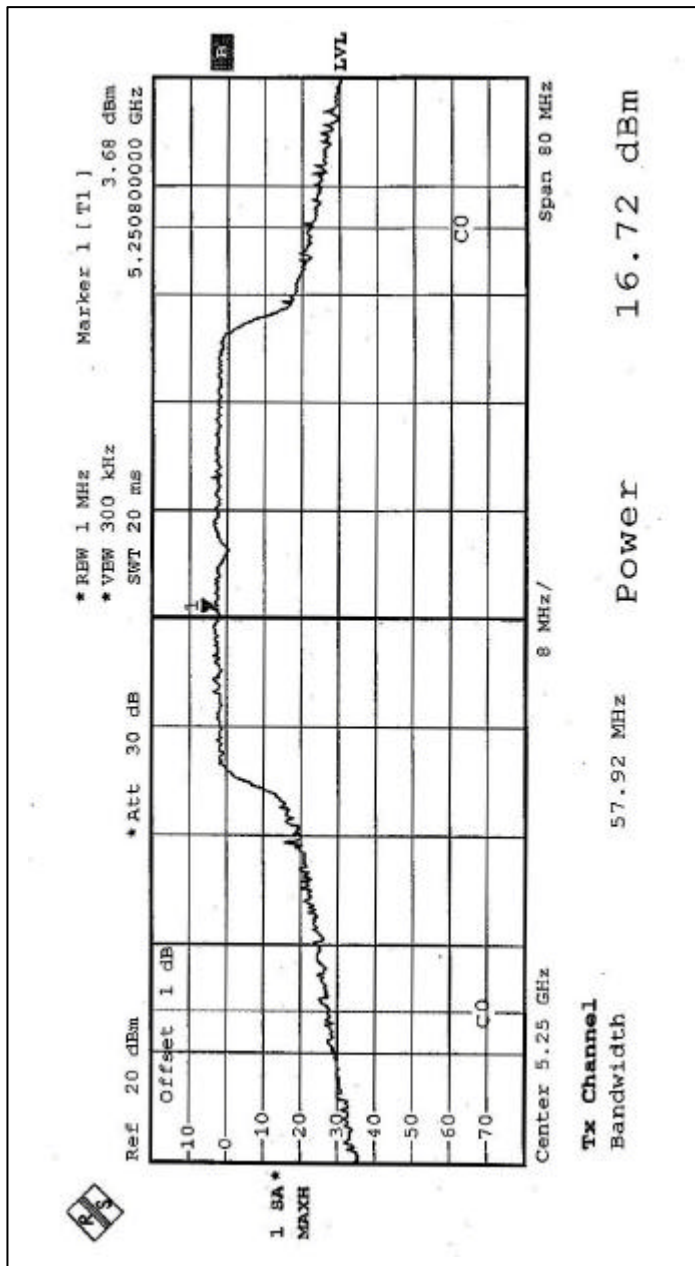


CHANNEL 1



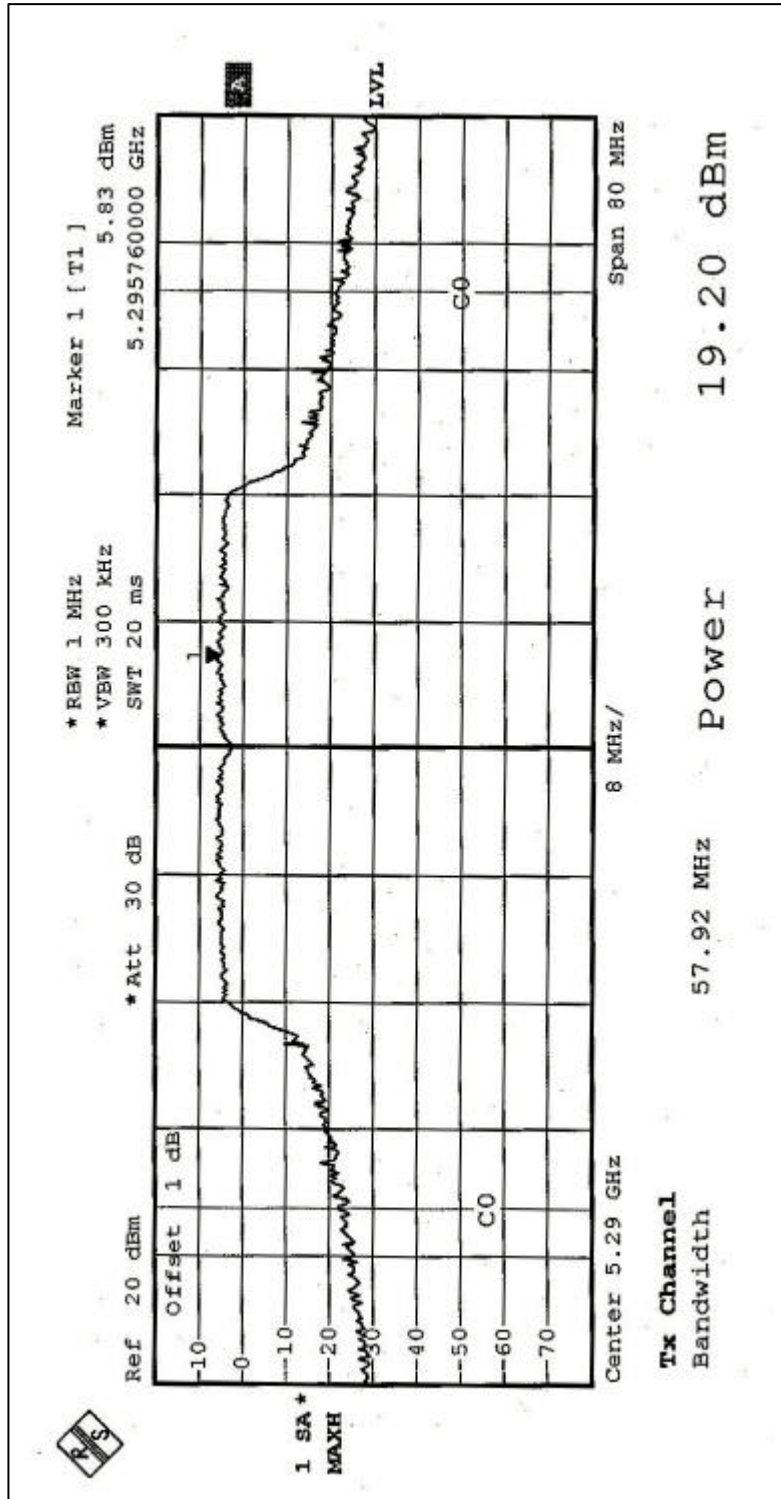


CHANNEL 2



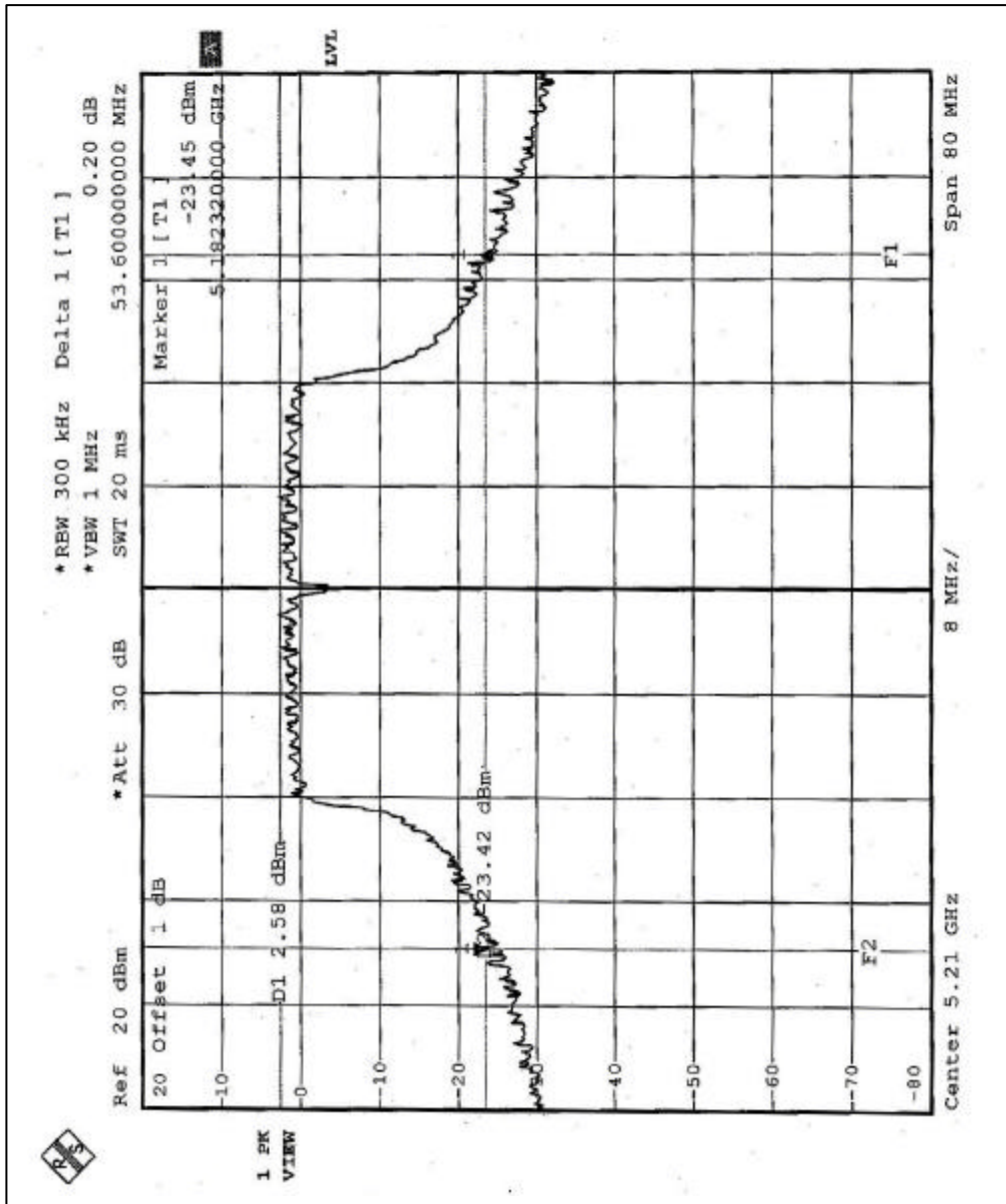


CHANNEL 3



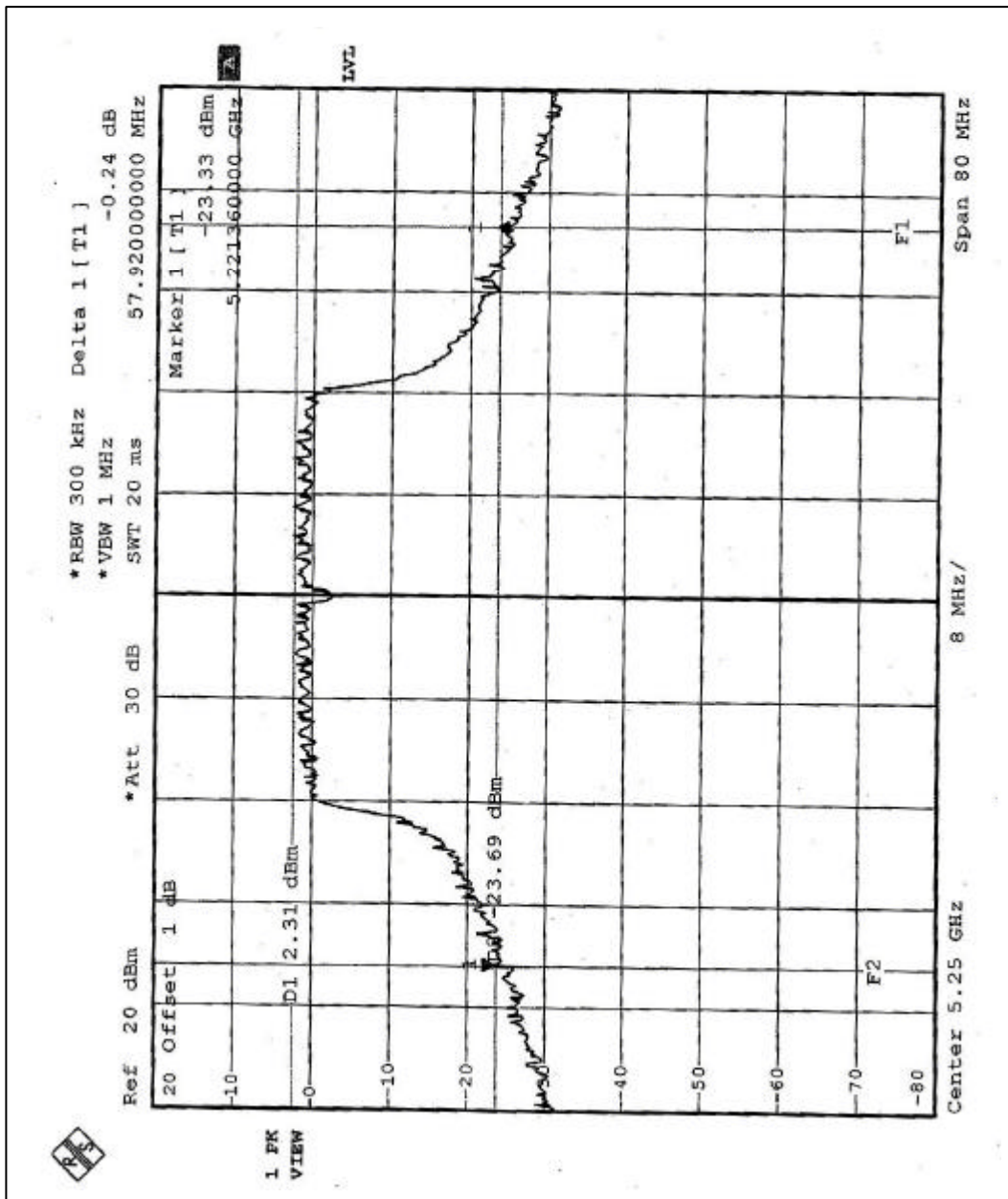


CHANNEL 1



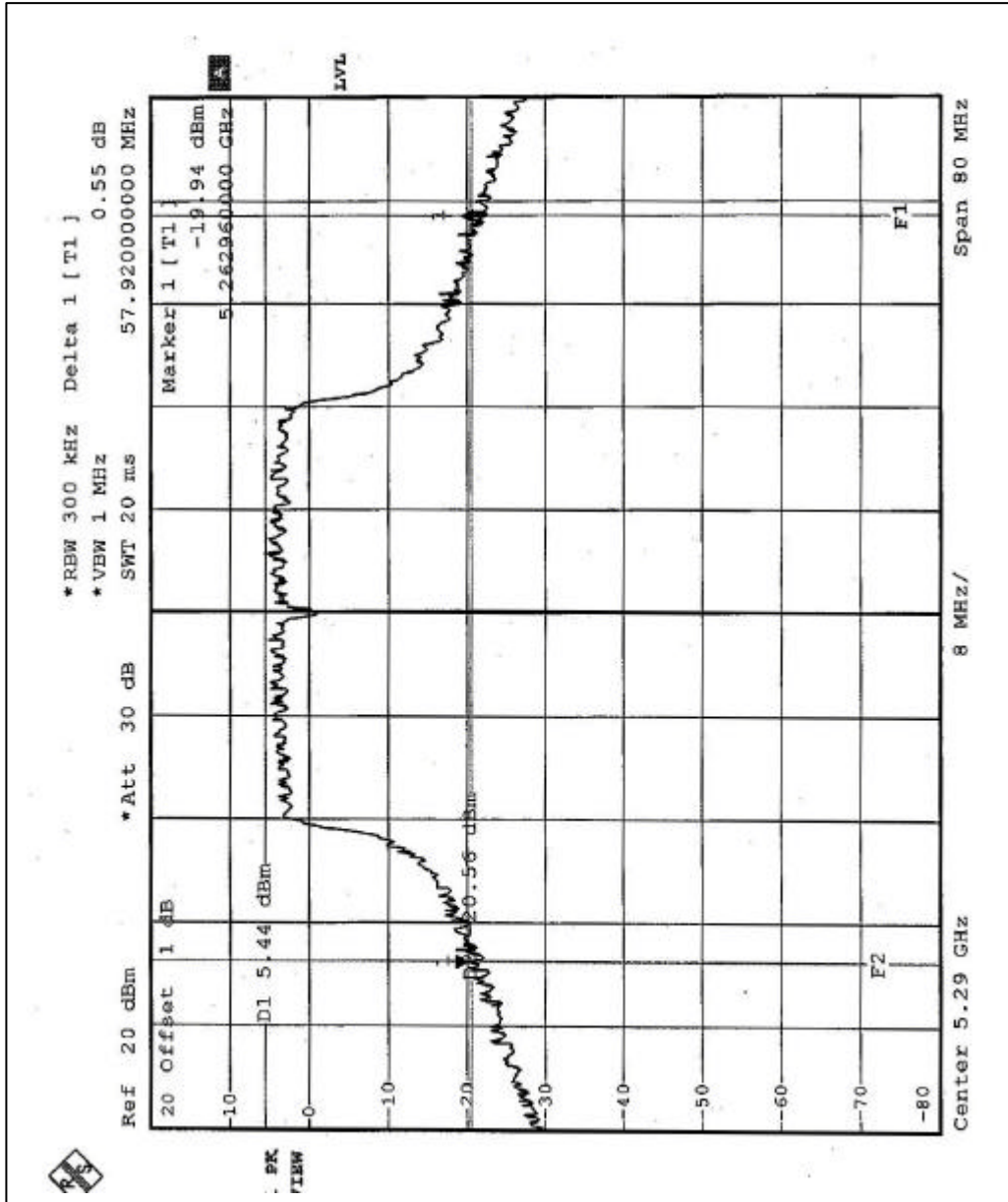


CHANNEL 2





CHANNEL 3





5.3.8 TEST RESULTS (E)-Antenna 8

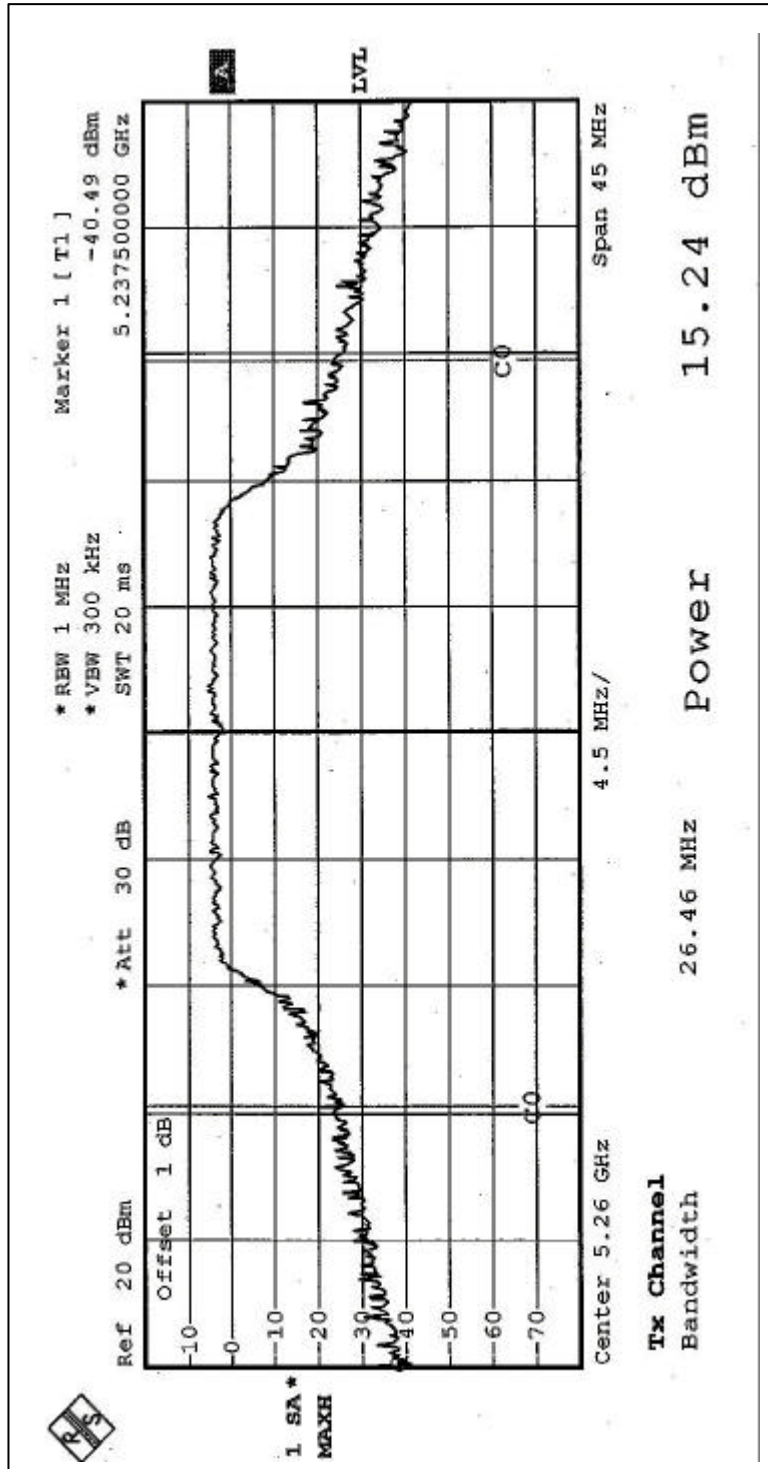
EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 965 hPa	TESTED BY	Eric Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
5	5260	15.24	24	26.46	PASS
8	5320	15.30	24	26.46	PASS

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

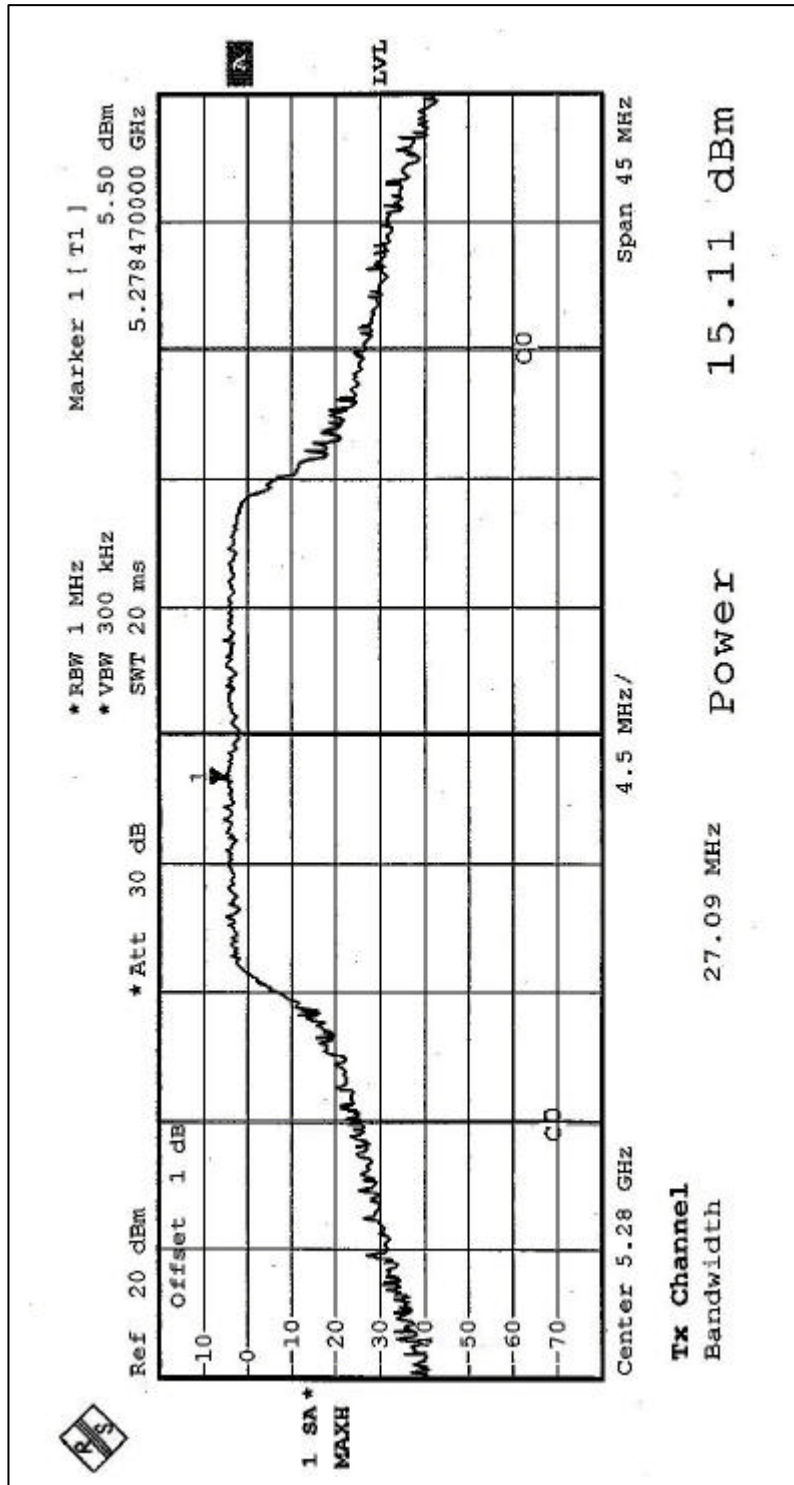


CHANNEL 5



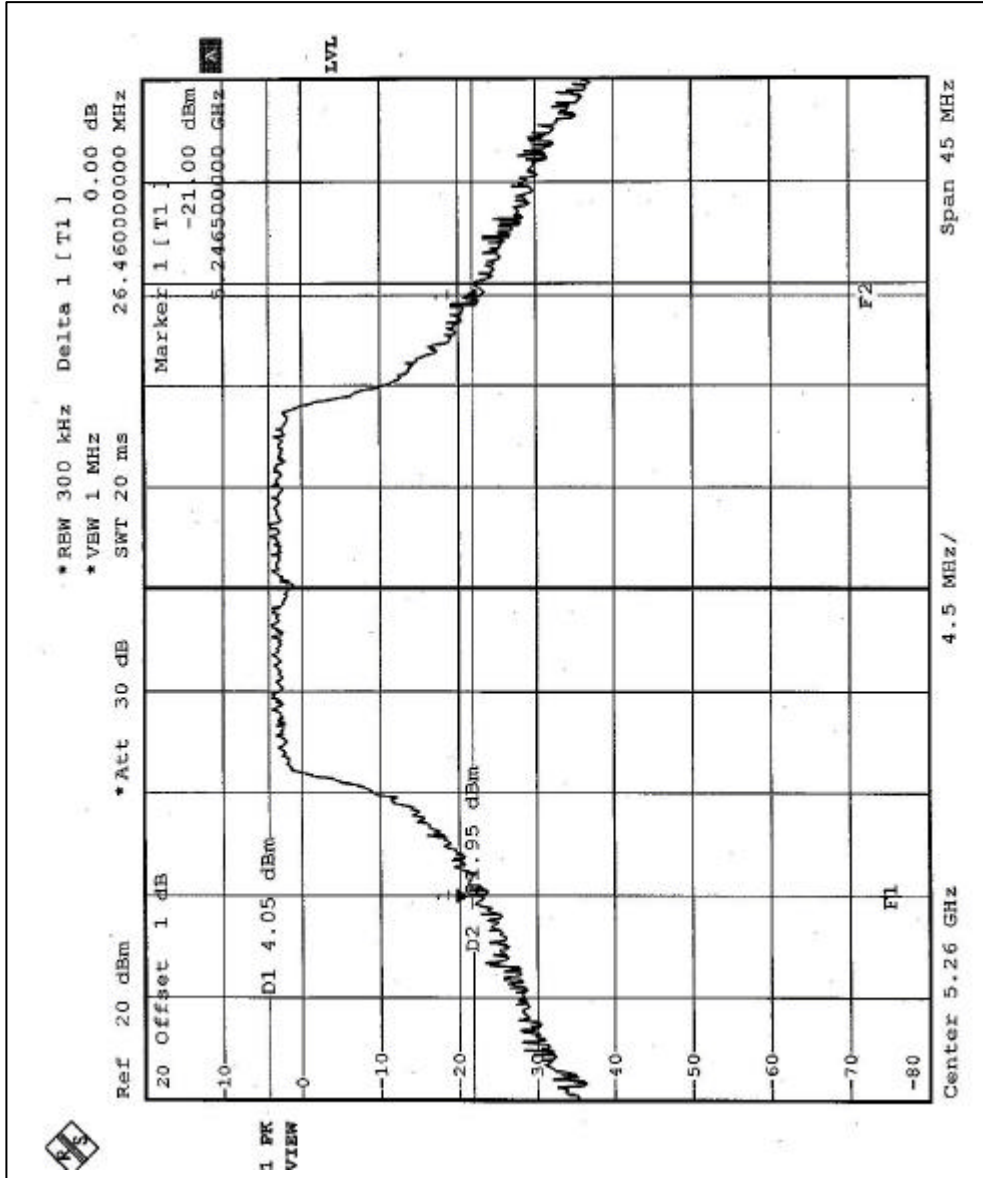


CHANNEL 8



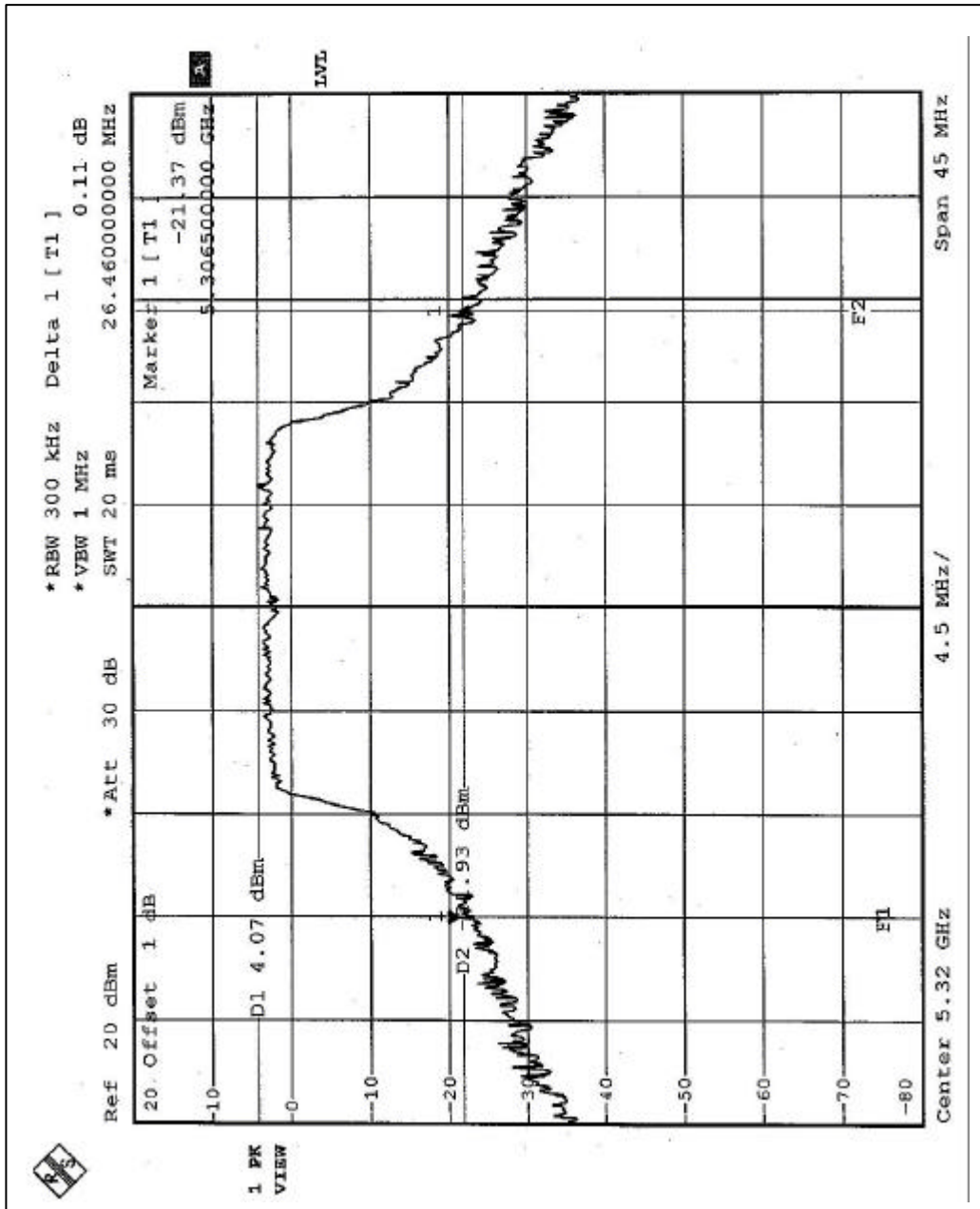


CHANNEL 5





CHANNEL 8





EUT	802.11a/b/g miniPCI module	MODEL	C38WCW
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	27eg. C, 56RH, 965 hPa	TESTED BY	Tony Chen

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
3	5290	15.11	24	51.45	PASS

NOTE:

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



CHANNEL 3

