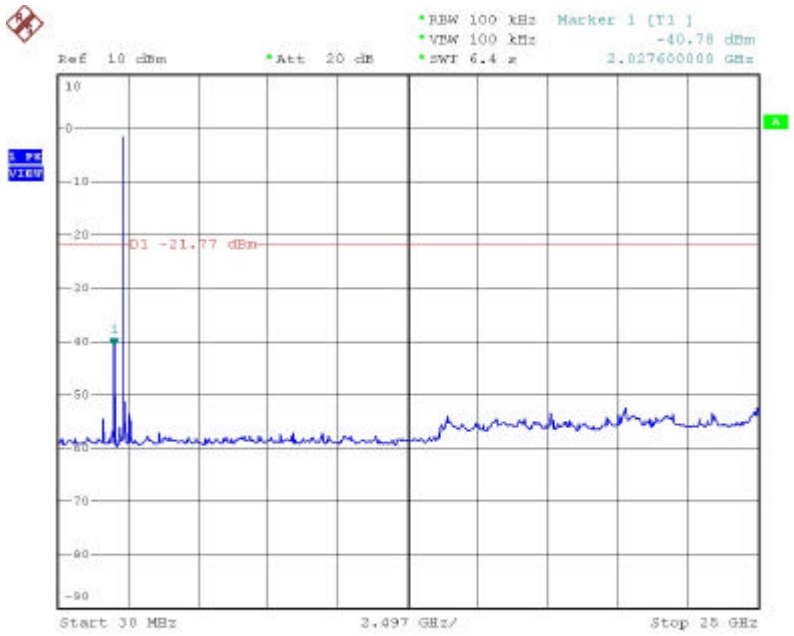
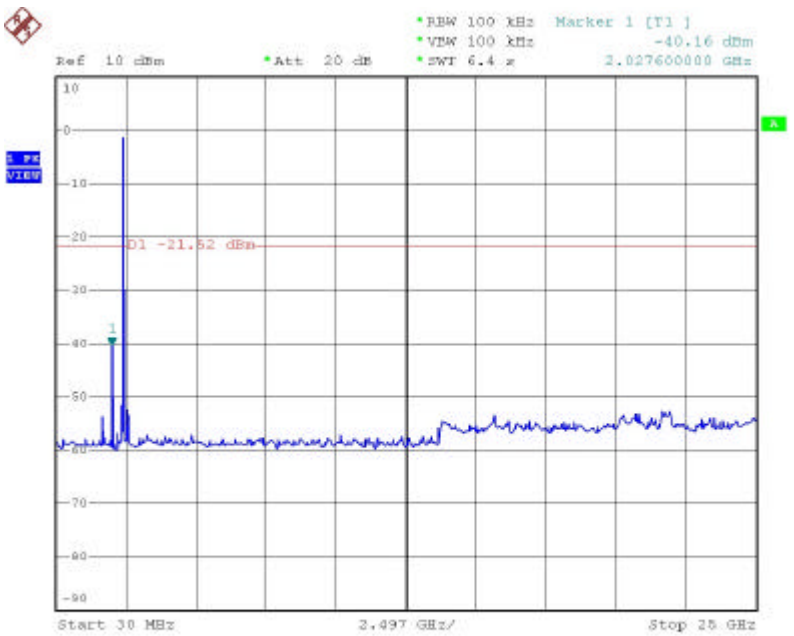
## 4.3. RF Portion

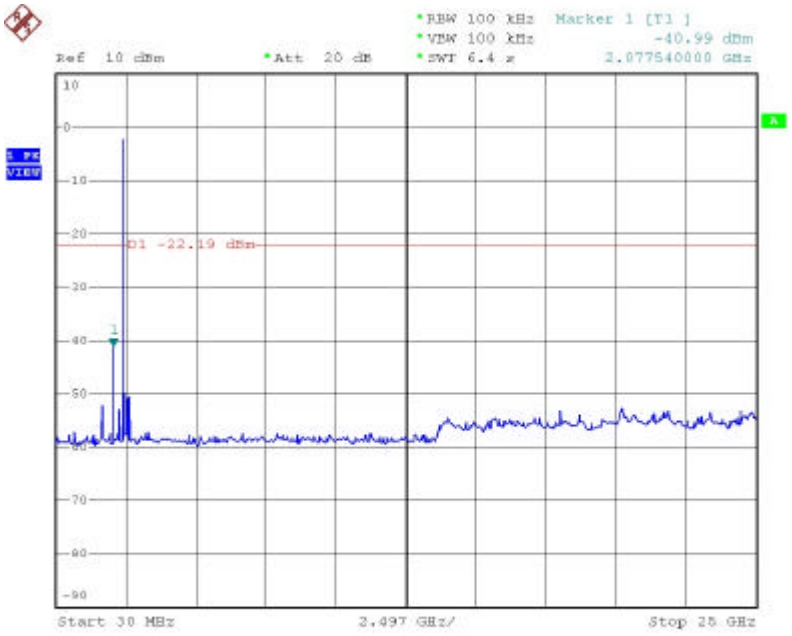
### 4.3.1. Test Result of Conducted Emission



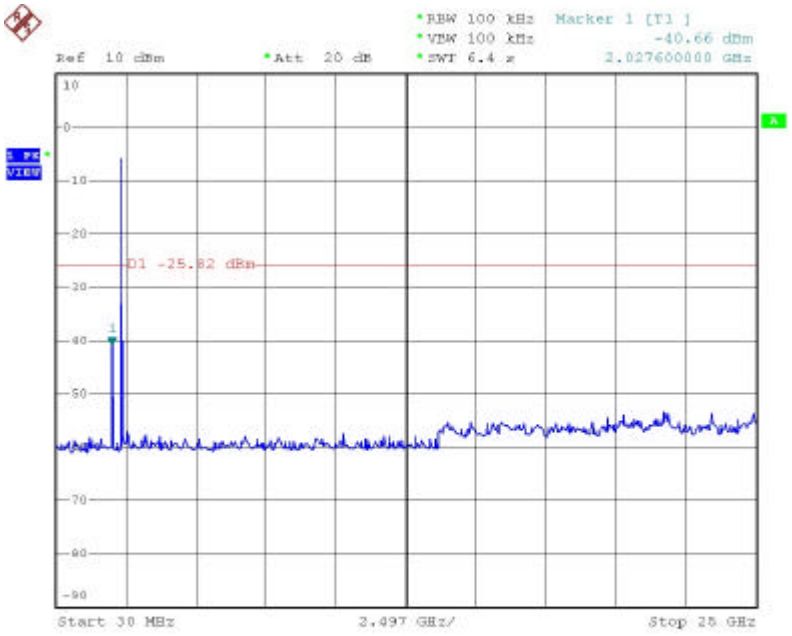

Date: 26.AUG.2004 19:50:28



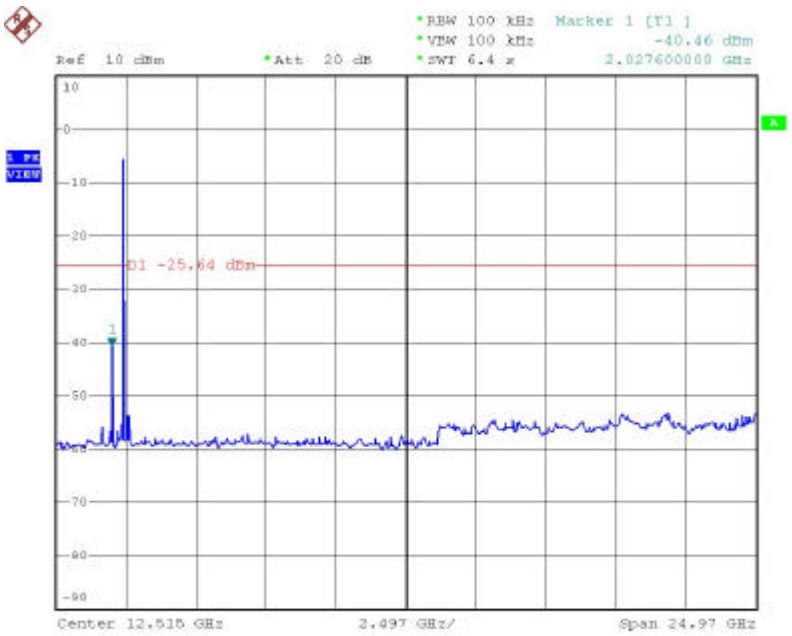

Date: 26.AUG.2004 19:48:44



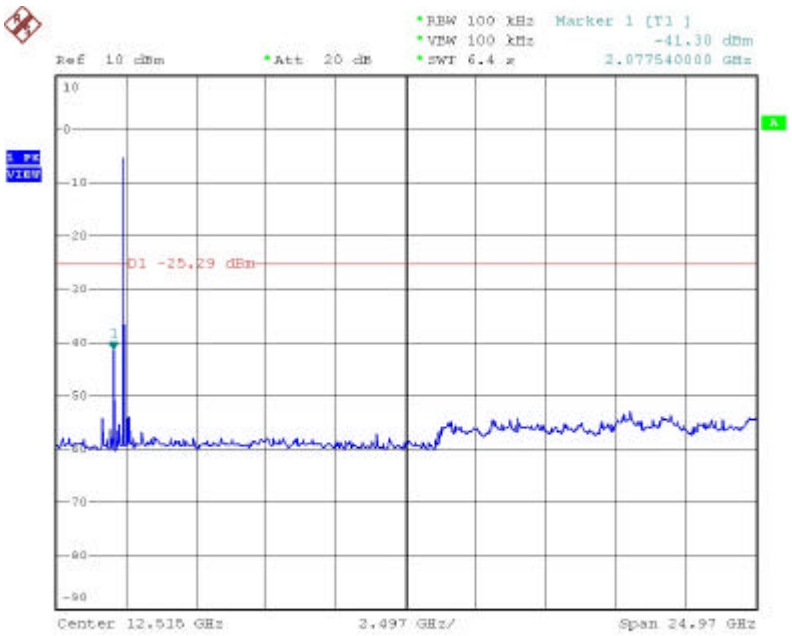

Date: 26.AUG.2004 19:47:09




Date: 26.AUG.2004 19:55:34




Date: 26.AUG.2004 19:56:53




Date: 26.AUG.2004 19:57:49

4.3.2. Test Result of Radiated Emission

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel LO

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 950.53 | H | 39.19 | 4.17 | 43.36 | 46.0 | -2.64 | Q.P | 190 | 1.0 |
| 38.73 | V | 50.40 | -13.83 | 36.57 | 40.0 | -3.43 | Peak | 160 | 1.5 |
| 80.44 | V | 56.77 | -20.20 | 36.57 | 40.0 | -3.43 | Peak | 120 | 1.0 |
| 104.69 | V | 56.41 | -16.99 | 39.42 | 43.5 | -4.08 | Peak | 100 | 1.0 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel LO

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2036.0 | H | 53.06 | -1.81 | 51.25 | 74 | -22.75 | Peak | 180 | 1.5 |
| 4080.0 | H | 50.08 | 5.53 | 55.60 | 74 | -18.40 | Peak | 175 | 1.0 |
| 4080.0 | H | 39.82 | 5.53 | 45.35 | 54 | -9.65 | Ave. | 185 | 1.0 |
| 1957.6 | V | 54.77 | -2.86 | 51.91 | 74 | -22.09 | Peak | 220 | 1.0 |
| 2038.8 | V | 62.02 | -2.50 | 59.53 | 74 | -14.47 | Peak | 176 | 1.5 |
| 2038.8 | V | 54.62 | -2.50 | 52.12 | 54 | -1.88 | Ave. | 182 | 1.5 |
| 4069.8 | V | 54.36 | 4.90 | 59.26 | 74 | -14.74 | Peak | 205 | 1.0 |
| 4069.8 | V | 44.21 | 4.90 | 49.11 | 54 | -4.89 | Ave. | 200 | 1.0 |
| 4824.2 | V | 52.92 | 6.49 | 59.40 | 74 | -14.60 | Peak | 170 | 1.0 |
| 4824.2 | V | 41.87 | 6.49 | 48.36 | 54 | -5.64 | Ave. | 210 | 1.0 |

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel MID

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 56.19 | V | 56.14 | -19.75 | 36.39 | 40 | -3.61 | Peak | 115 | 1.0 |
| 67.83 | V | 57.51 | -22.23 | 35.29 | 40 | -4.71 | Peak | 160 | 1.5 |
| 80.44 | V | 57.41 | -20.20 | 37.21 | 40 | -2.39 | Q.P | 190 | 1.0 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel MID

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2064.0 | H | 53.75 | -1.71 | 52.04 | 74 | -21.96 | Peak | 205 | 1.5 |
| 4128.0 | H | 48.86 | 5.59 | 54.45 | 74 | -19.55 | Peak | 160 | 1.0 |
| 4128.0 | H | 38.80 | 5.59 | 44.39 | 54 | -9.61 | Ave. | 188 | 1.0 |
| 1955.5 | V | 51.67 | -2.87 | 48.79 | 74 | -25.21 | Peak | 100 | 1.0 |
| 2053.0 | V | 62.79 | -2.45 | 60.34 | 74 | -13.66 | Peak | 210 | 1.5 |
| 2053.0 | V | 51.63 | -2.45 | 49.18 | 54 | -4.82 | Ave. | 206 | 1.5 |
| 4113.5 | V | 53.93 | 4.95 | 58.88 | 74 | -15.12 | Peak | 185 | 1.0 |
| 4113.5 | V | 43.67 | 4.95 | 48.62 | 54 | -5.38 | Ave. | 190 | 1.0 |
| 4867.5 | V | 49.54 | 6.63 | 56.17 | 74 | -17.83 | Peak | 165 | 1.0 |
| 4867.5 | V | 38.72 | 6.63 | 45.35 | 54 | -8.65 | Ave. | 172 | 1.0 |

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel HI

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 950.53 | H | 39.19 | 4.17 | 43.36 | 46.0 | -2.64 | Q.P | 185 | 1.0 |
| 56.19 | V | 56.05 | -19.75 | 36.30 | 46.0 | -3.70 | Peak | 165 | 1.0 |
| 80.44 | V | 58.10 | -20.20 | 37.90 | 40.0 | -2.10 | Q.P | 120 | 1.5 |
| 92.08 | V | 60.25 | -18.38 | 41.87 | 43.5 | -1.63 | Q.P | 105 | 1.0 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel HI

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2088.0 | H | 49.44 | -1.63 | 47.81 | 74 | -26.19 | Peak | 185 | 1.0 |
| 4176.0 | H | 52.97 | 5.66 | 58.63 | 74 | -15.37 | Peak | 200 | 1.0 |
| 4176.0 | H | 41.71 | 5.66 | 47.37 | 54 | -6.63 | Ave. | 195 | 1.0 |
| 1956.0 | V | 53.16 | -2.87 | 50.29 | 74 | -23.71 | Peak | 95 | 1.0 |
| 2084.0 | V | 61.02 | -2.34 | 58.68 | 74 | -15.32 | Peak | 190 | 1.5 |
| 2084.0 | V | 48.52 | -2.34 | 46.18 | 54 | -7.82 | Ave. | 200 | 1.5 |
| 4176.0 | V | 55.26 | 5.03 | 60.29 | 74 | -13.71 | Peak | 215 | 1.0 |
| 4176.0 | V | 44.13 | 5.03 | 49.16 | 54 | -5.84 | Ave. | 230 | 1.0 |
| 4928.0 | V | 47.89 | 6.83 | 54.72 | 74 | -19.28 | Peak | 195 | 1.0 |
| 4928.0 | V | 37.91 | 6.83 | 44.74 | 54 | -9.26 | Ave. | 190 | 1.0 |

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel LO

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 31.94 | V | 45.89 | -10.21 | 35.68 | 40 | -4.32 | Peak | 192 | 1.0 |
| 43.58 | V | 51.73 | -16.20 | 35.53 | 40 | -4.47 | Peak | 160 | 1.0 |
| 56.19 | V | 55.13 | -19.75 | 35.38 | 40 | -4.62 | Peak | 100 | 1.0 |
| 80.44 | V | 56.88 | -20.20 | 36.68 | 40 | -3.32 | Peak | 186 | 1.5 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel LO

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2036.0 | H | 53.11 | -1.81 | 51.30 | 74 | -22.70 | Peak | 190 | 1.0 |
| 4080.0 | H | 52.12 | 5.53 | 57.64 | 74 | -16.36 | Peak | 180 | 1.0 |
| 4080.0 | H | 41.33 | 5.53 | 46.86 | 54 | -8.14 | Ave. | 200 | 1.0 |
| 1956.0 | V | 54.10 | -2.87 | 51.22 | 74 | -22.78 | Peak | 115 | 1.0 |
| 2036.0 | V | 61.53 | -2.51 | 59.03 | 74 | -14.59 | Peak | 170 | 1.5 |
| 2036.0 | V | 50.72 | -2.51 | 48.21 | 54 | -5.79 | Ave. | 180 | 1.5 |
| 4080.0 | V | 54.50 | 4.91 | 59.41 | 74 | -14.59 | Peak | 196 | 1.0 |
| 4080.0 | V | 42.63 | 4.91 | 47.54 | 54 | -6.46 | Ave. | 182 | 1.0 |
| 4828.0 | V | 49.30 | 6.50 | 55.80 | 74 | -14.59 | Peak | 165 | 1.0 |
| 4828.0 | V | 38.53 | 6.50 | 42.03 | 54 | -11.95 | Ave. | 160 | 1.0 |

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel MID

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 950.53 | H | 38.95 | 4.17 | 43.12 | 46.0 | -2.80 | Q.P | 172 | 1.0 |
| 56.19 | V | 54.89 | -19.75 | 35.14 | 40.0 | -4.86 | Peak | 165 | 1.0 |
| 67.83 | V | 57.56 | -22.23 | 35.34 | 40.0 | -4.66 | Peak | 190 | 1.0 |
| 80.44 | V | 59.86 | -20.20 | 38.66 | 40.0 | -1.34 | Q.P | 100 | 1.5 |
| 104.69 | V | 56.62 | -16.99 | 39.63 | 43.5 | -3.87 | Peak | 290 | 1.0 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel MID

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2064.0 | H | 54.23 | -1.71 | 52.52 | 74 | -21.48 | Peak | 110 | 1.0 |
| 4128.0 | H | 53.38 | 5.59 | 58.98 | 74 | -15.02 | Peak | 190 | 1.5 |
| 4128.0 | H | 43.28 | 5.59 | 48.87 | 54 | -5.13 | Ave. | 200 | 1.5 |
| 1956.0 | V | 53.98 | -2.87 | 51.11 | 74 | -22.89 | Peak | 180 | 1.5 |
| 2064.0 | V | 62.53 | -2.41 | 60.12 | 74 | -13.88 | Peak | 190 | 1.0 |
| 2064.0 | V | 51.21 | -2.41 | 48.80 | 54 | -5.20 | Ave. | 185 | 1.0 |
| 4128.0 | V | 55.63 | 4.97 | 60.60 | 74 | -13.40 | Peak | 165 | 1.0 |
| 4128.0 | V | 45.62 | 4.97 | 50.59 | 54 | -3.41 | Ave. | 165 | 1.0 |
| 4872.0 | V | 45.66 | 6.64 | 52.30 | 74 | -21.7 | Peak | 170 | 1.0 |

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel HI

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 950.53 | H | 39.44 | 4.17 | 43.61 | 46 | -2.39 | Q.P | 170 | 1.0 |
| 31.94 | V | 46.30 | -10.21 | 36.09 | 40 | -3.91 | Peak | 160 | 1.0 |
| 67.83 | V | 57.26 | -22.23 | 35.04 | 40 | -4.96 | Peak | 192 | 1.0 |
| 80.44 | V | 58.14 | -20.20 | 37.94 | 40 | -2.06 | Q.P | 120 | 1.5 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

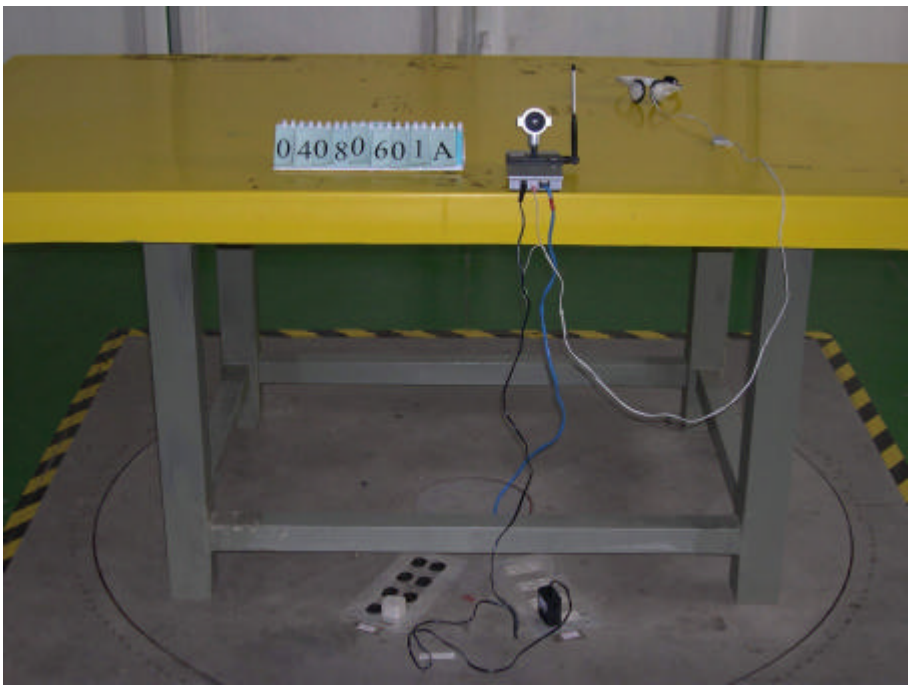
b) Emission frequencies above 1 GHz Channel HI

| Frequency (MHz) | Ant-Pol H/V | Meter Reading (dBuV) | Corrected Factor (dB) | Result@3m (dBuV/m) | Limit@3m (dBuV/m) | Margin (dB) | Remark | Table Deg. | Ant High (m) |
|---|---|---|---|---|---|---|---|---|---|
| 2084.0 | H | 51.89 | -1.64 | 50.25 | 74 | -23.75 | Peak | 200 | 1.0 |
| 4176.0 | H | 51.22 | 5.66 | 56.88 | 74 | -17.12 | Peak | 190 | 1.0 |
| 4176.0 | H | 40.62 | 5.66 | 46.28 | 54 | -7.72 | Ave. | 185 | 1.0 |
| 1956.0 | V | 54.63 | -2.87 | 51.76 | 74 | -22.24 | Peak | 95 | 1.5 |
| 2084.0 | V | 61.16 | -2.34 | 58.82 | 74 | -15.18 | Peak | 190 | 1.0 |
| 2084.0 | V | 50.62 | -2.34 | 48.28 | 54 | -5.72 | Ave. | 185 | 1.0 |
| 4176.0 | V | 55.60 | 5.03 | 60.63 | 74 | -13.37 | Peak | 200 | 1.0 |
| 4176.0 | V | 43.91 | 5.03 | 48.94 | 54 | -5.06 | Ave. | 210 | 1.0 |

4.3.3. Photographs of Radiated Emission Test

FRONT VIEW


REAR VIEW



## 4.4. 6dB Bandwidth Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Channel 01: 6dB Emission Bandwidth is 12.2 MHz

b) Channel 06: 6dB Emission Bandwidth is 12.1 MHz

c) Channel 11: 6dB Emission Bandwidth is 11.8 MHz

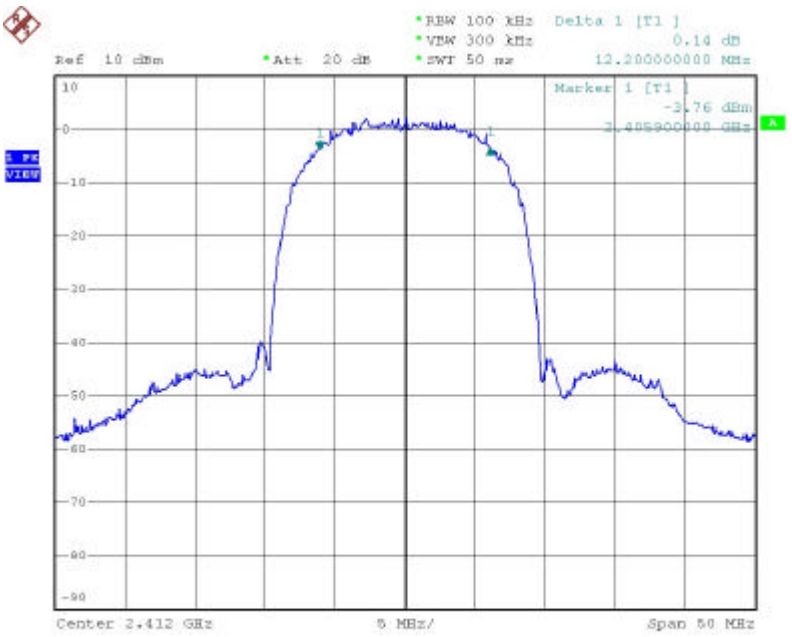
(2) Modulation Standard: IEEE 802.11g

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

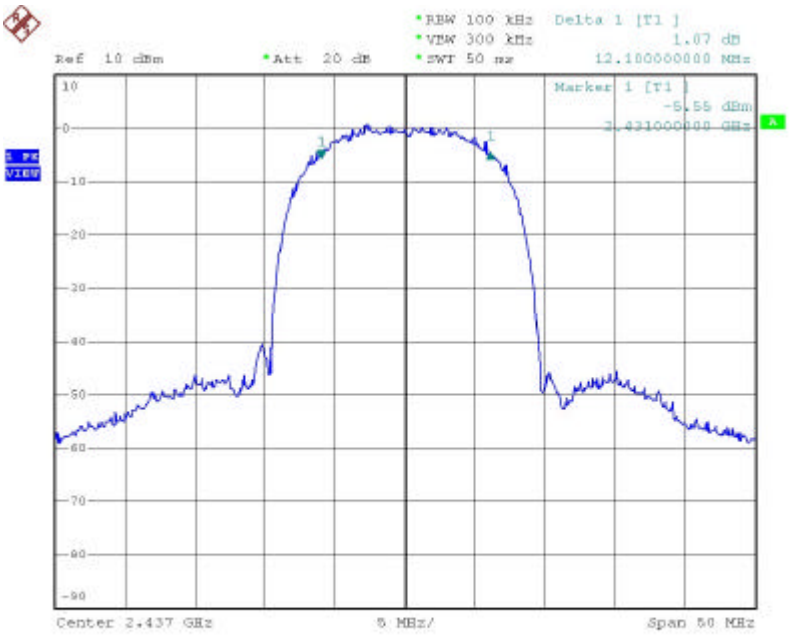
a) Channel 01: 6dB Emission Bandwidth is 16.5 MHz

b) Channel 06: 6dB Emission Bandwidth is 16.5 MHz

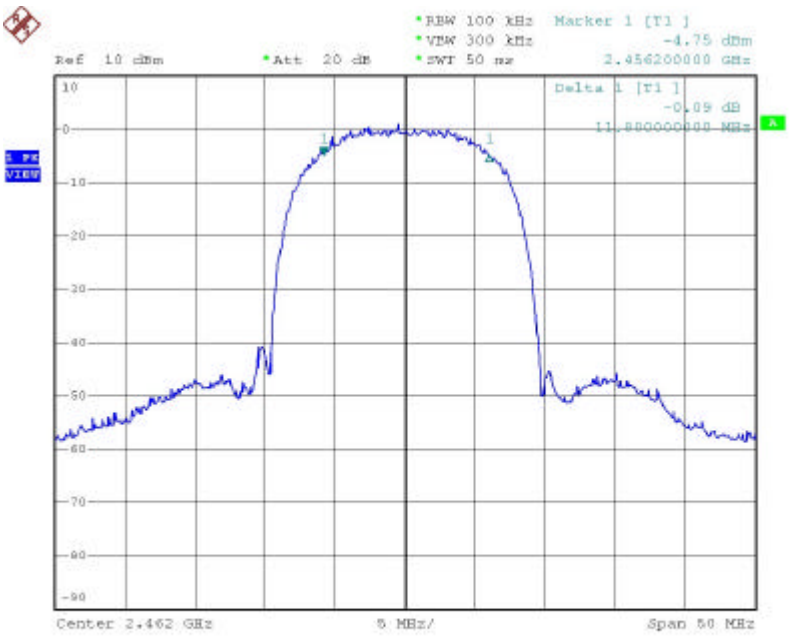
c) Channel 11: 6dB Emission Bandwidth is 16.5 MHz



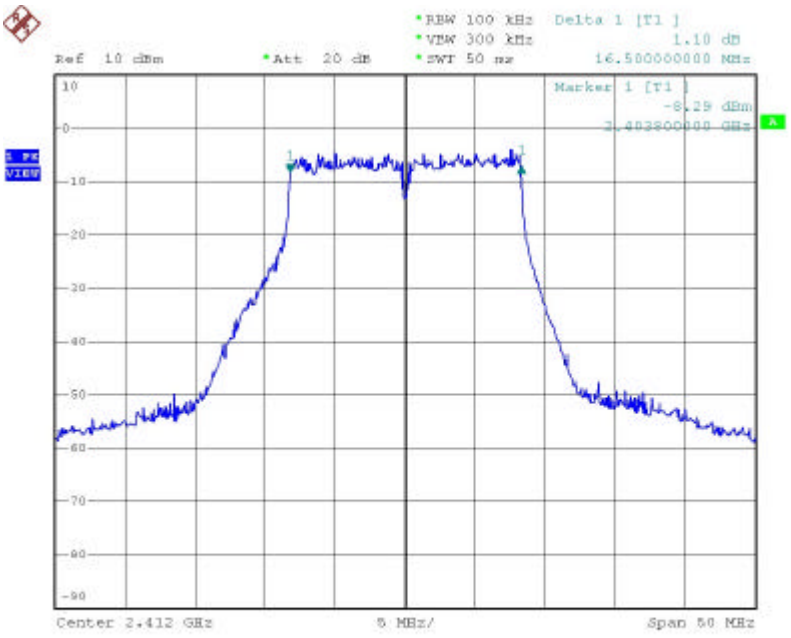

Date: 26.AUG.2004 19:00:38



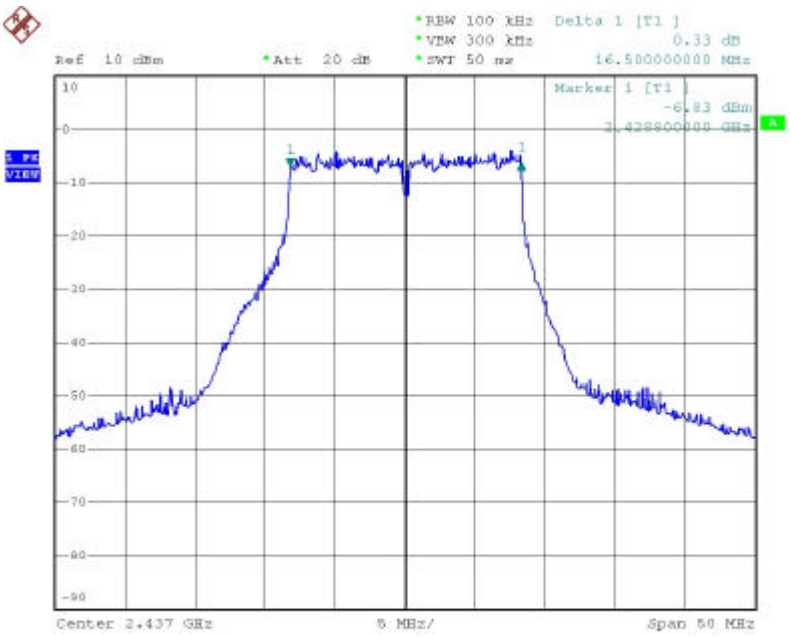

Date: 26.AUG.2004 19:01:48



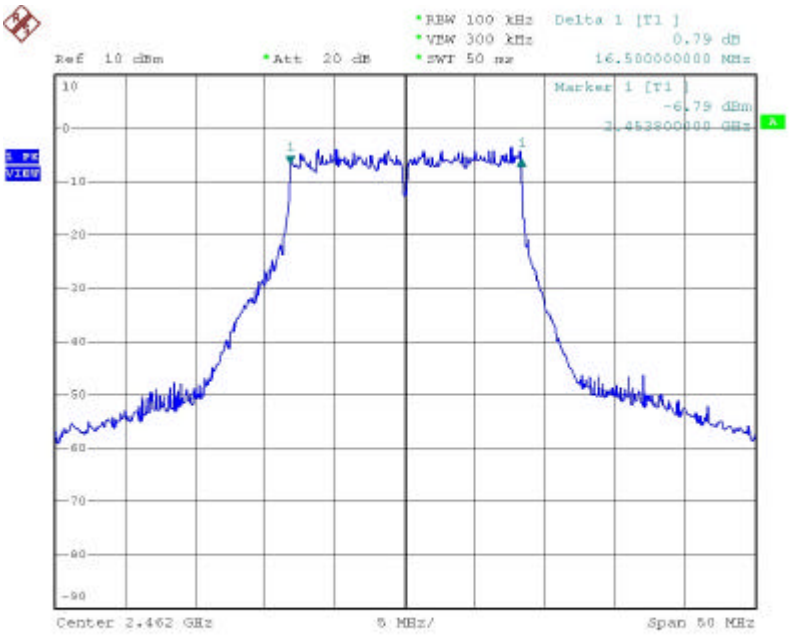

Date: 26.AUG.2004 19:07:16




Date: 26.AUG.2004 19:11:49




Date: 26.AUG.2004 19:10:35




Date: 26.AUG.2004 19:08:47

## 4.5. Peak Output Power Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Channel 01: Output Peak Power is 15.76 dBm or 37.685 mW

b) Channel 06: Output Peak Power is 15.90 dBm or 38.937 mW

c) Channel 11: Output Peak Power is 15.83 dBm or 38.287 mW

(2) Modulation Standard: IEEE 802.11g

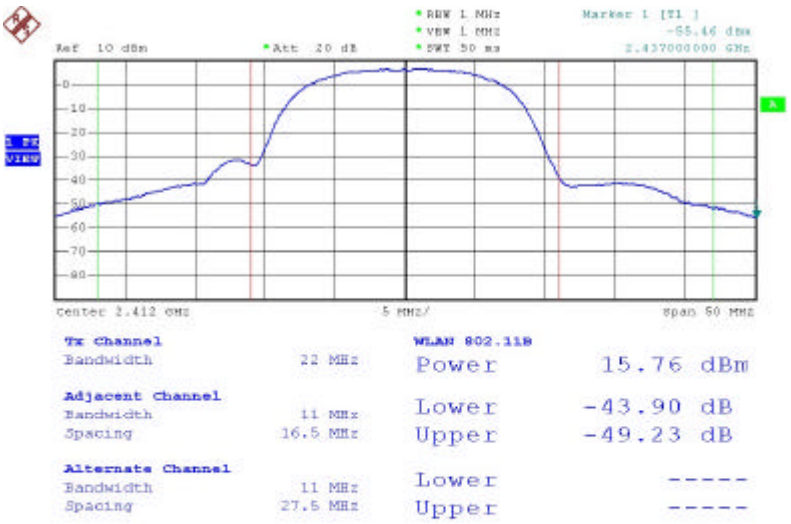
Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Channel 01: Output Peak Power is 15.60 dBm or 36.342 mW

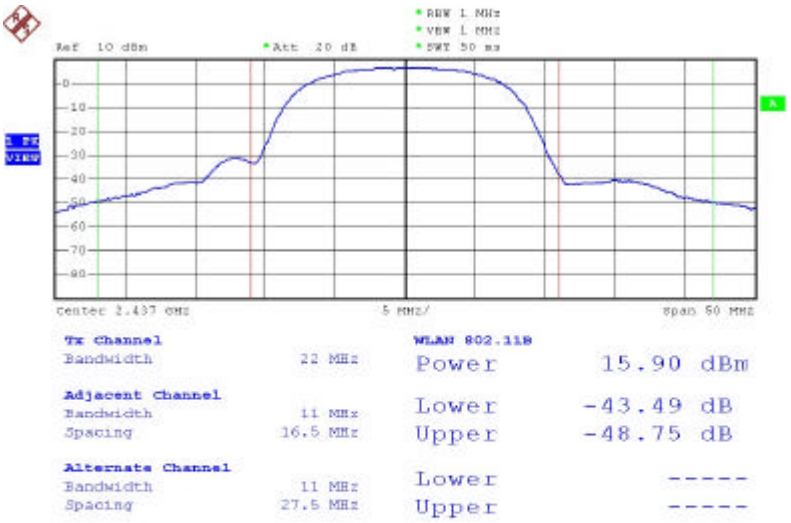
b) Channel 06: Output Peak Power is 15.92 dBm or 39.066 mW

c) Channel 11: Output Peak Power is 15.98 dBm or 39.589 mW

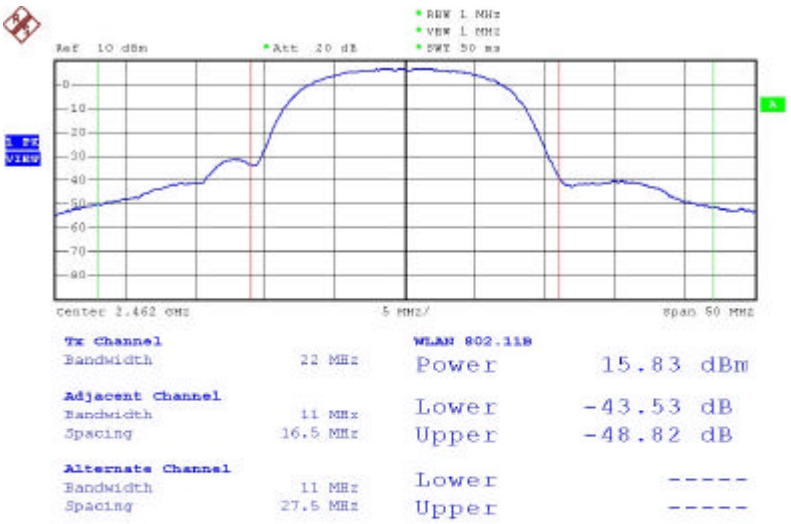
Note: Conducted Power = Reading Value + Cable Loss



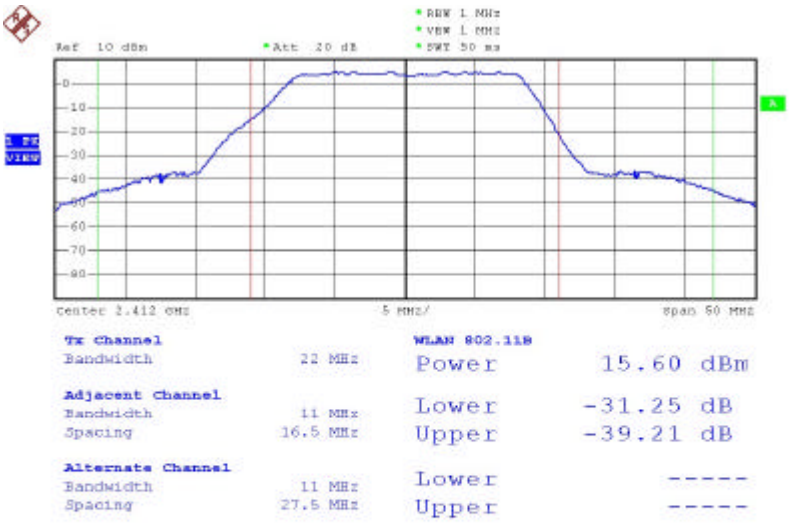

Date: 26.AUG.2004 16:59:03



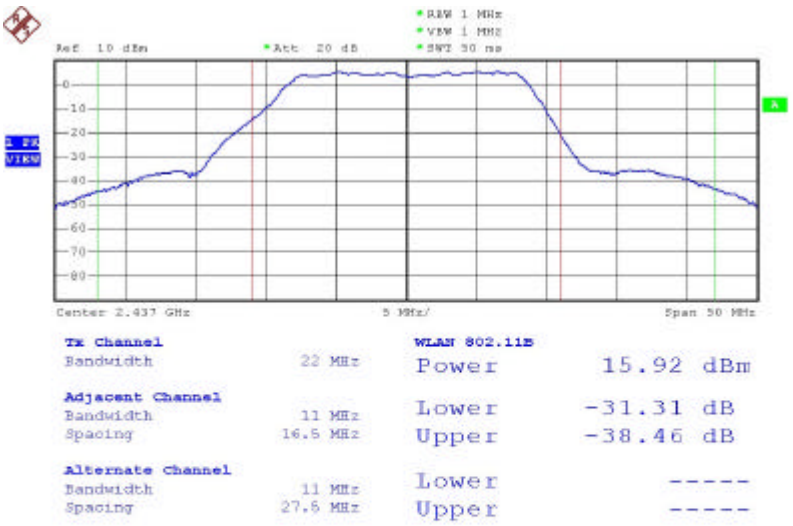

Date: 26.AUG.2004 17:33:21



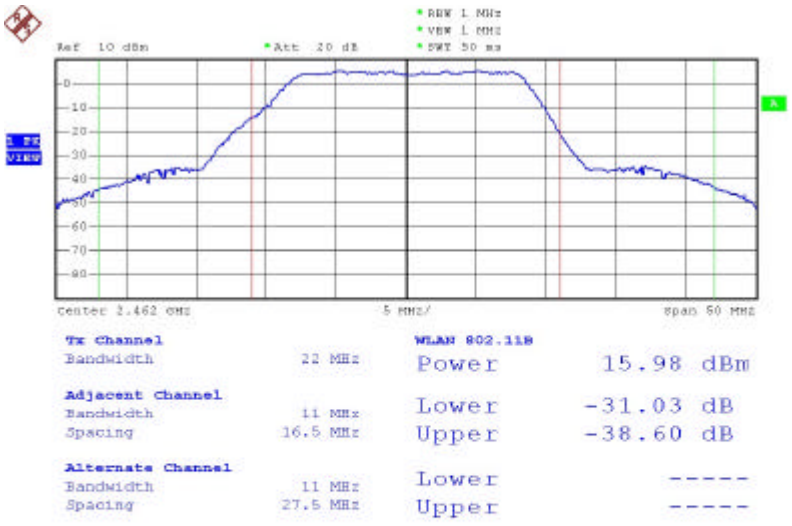

Date: 26.AUG.2004 17:36:43




Date: 26.AUG.2004 18:05:52




Date: 26.AUG.2004 18:02:24




Date: 26.AUG.2004 17:58:25

## 4.6. Band Edges Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Lower Band Edge: maximum value is -40.54 dBm that is attenuated more than 20dB

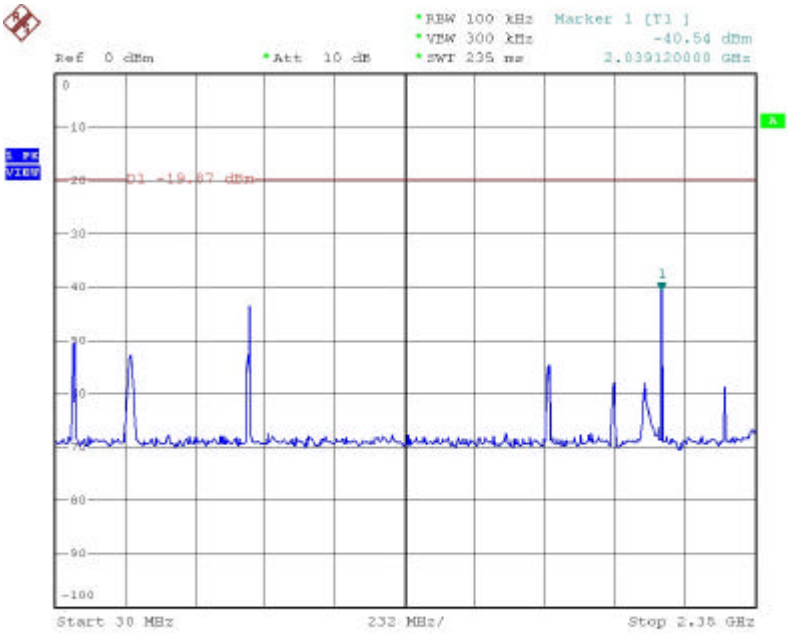
b) Upper Band Edge: maximum value is -41.42 dBm that is attenuated more than 20dB

(2) Modulation Standard: IEEE 802.11g

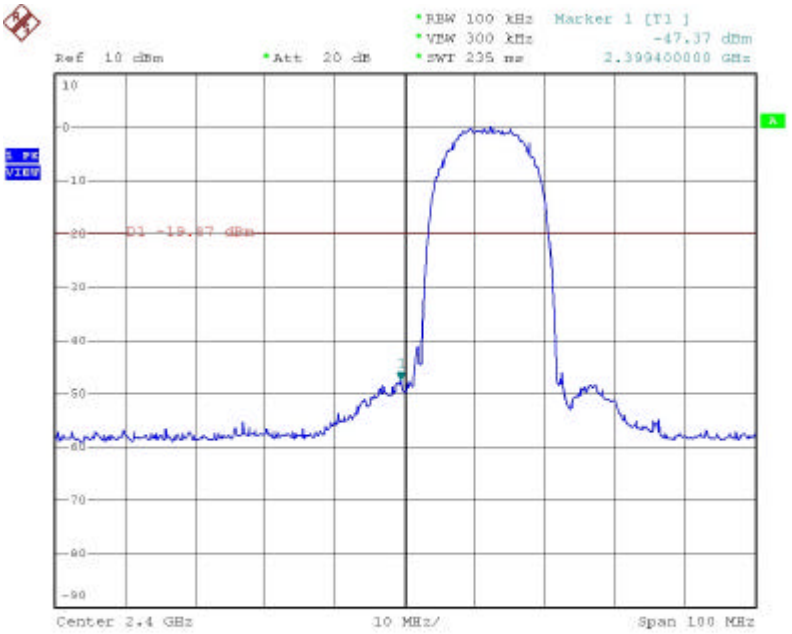
Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Lower Band Edge: maximum value is -37.70 dBm that is attenuated more than 20dB

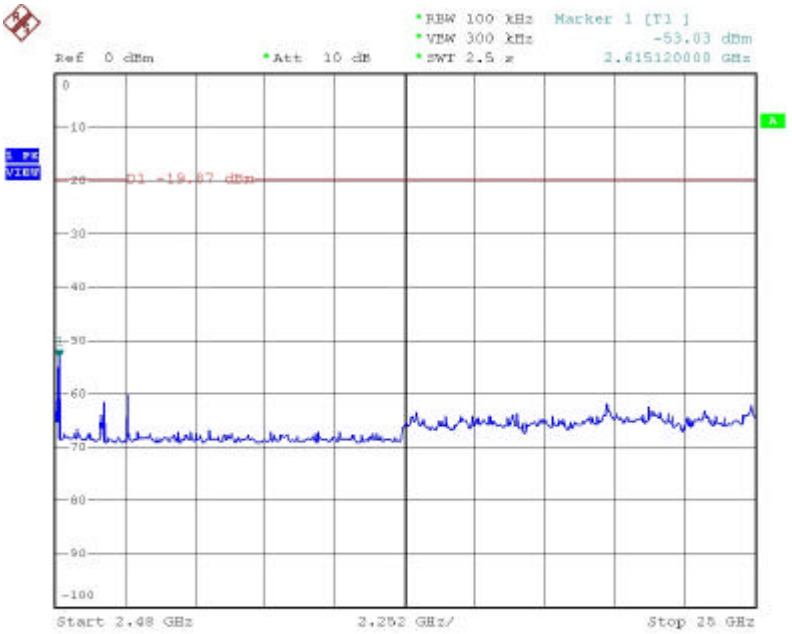
b) Upper Band Edge: maximum value is -41.09 dBm that is attenuated more than 20dB



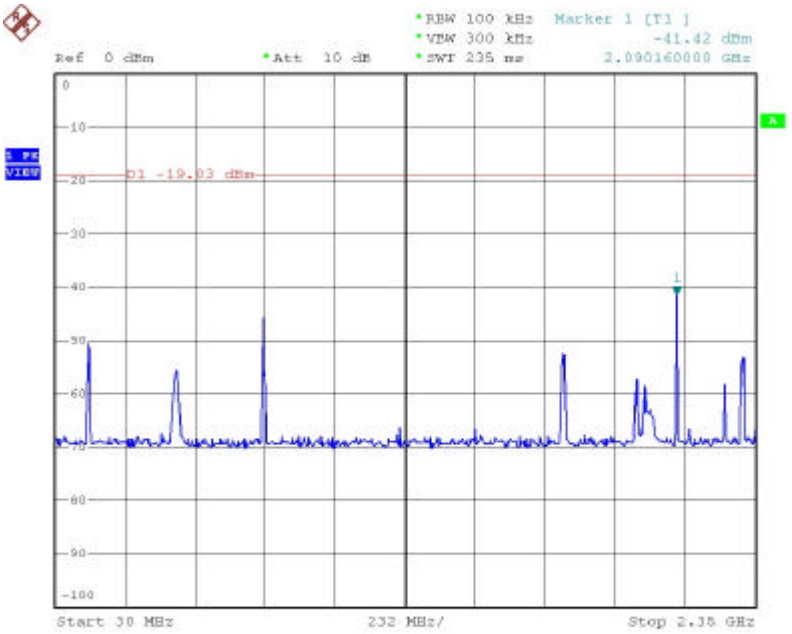

Date: 26.AUG.2004 19:34:23



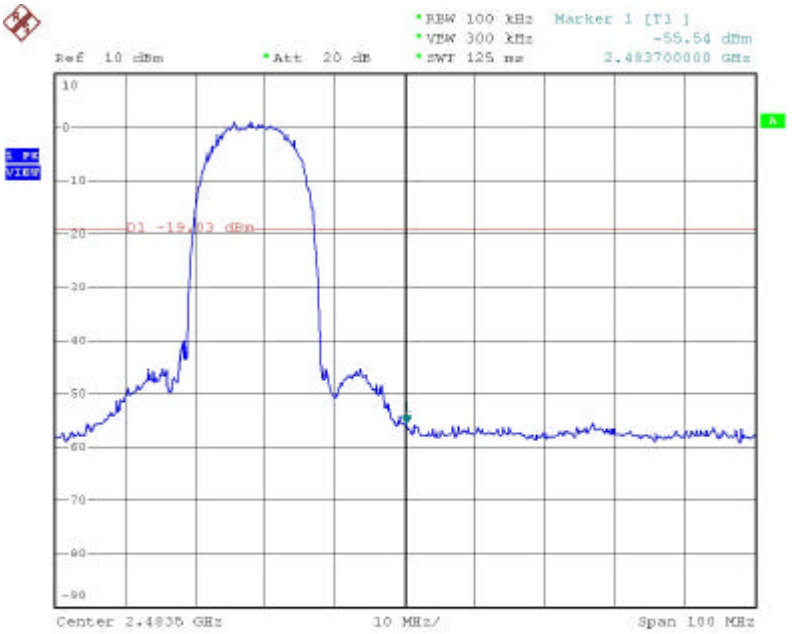

Date: 26.AUG.2004 19:36:25



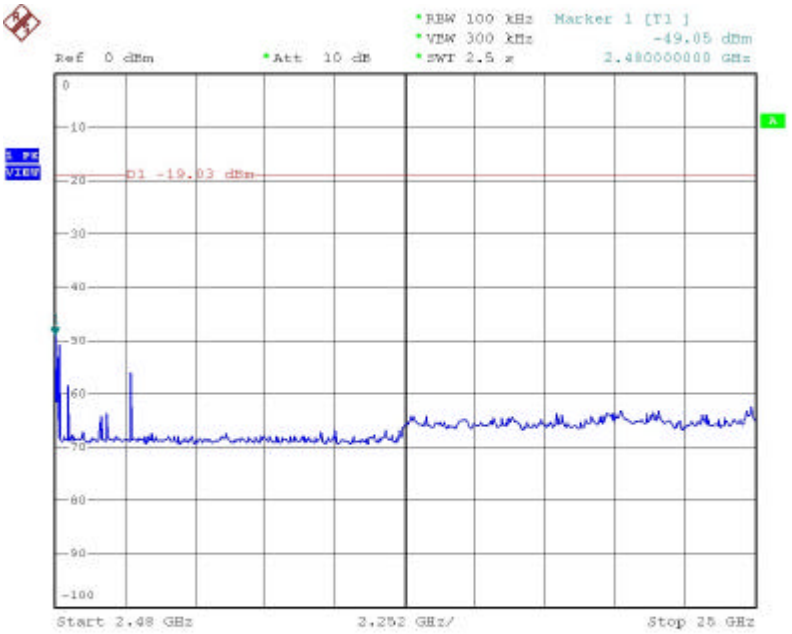

Date: 26.AUG.2004 19:37:53




Date: 26.AUG.2004 19:43:07




Date: 26.AUG.2004 19:42:08

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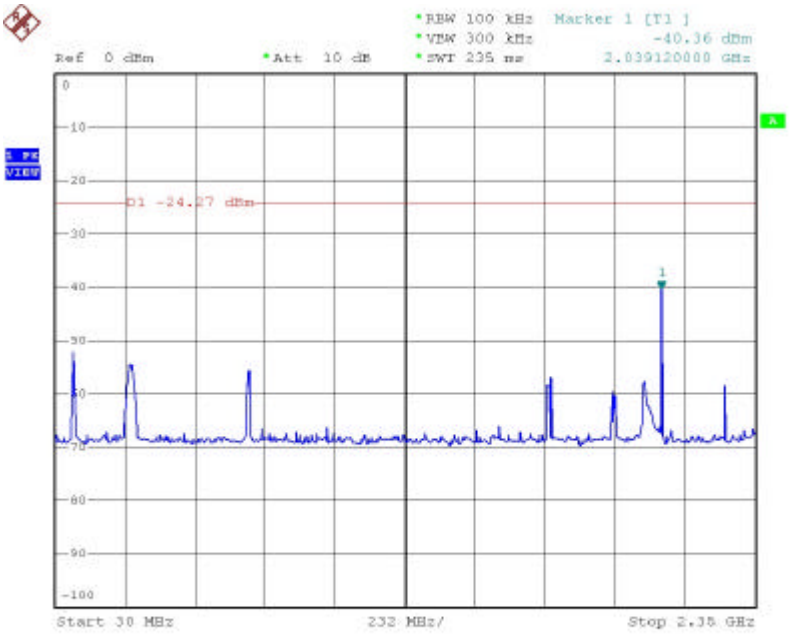
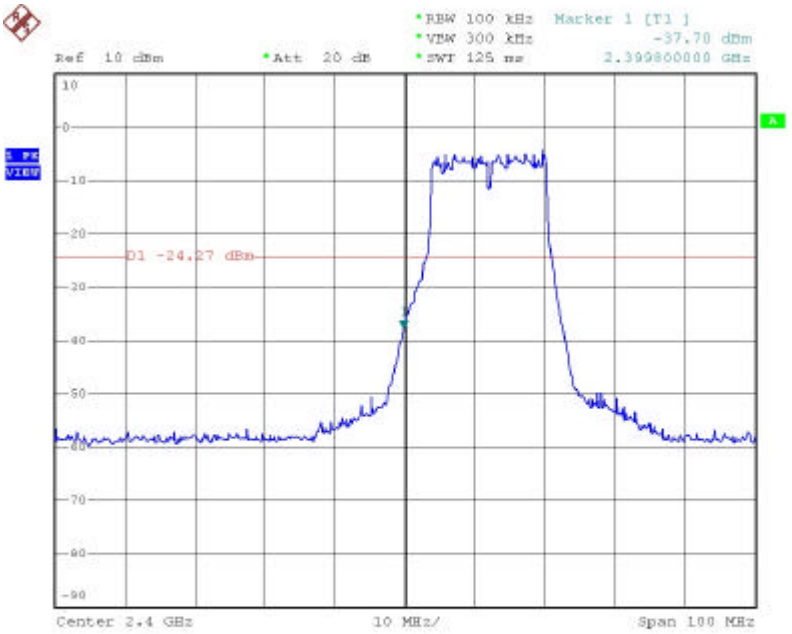
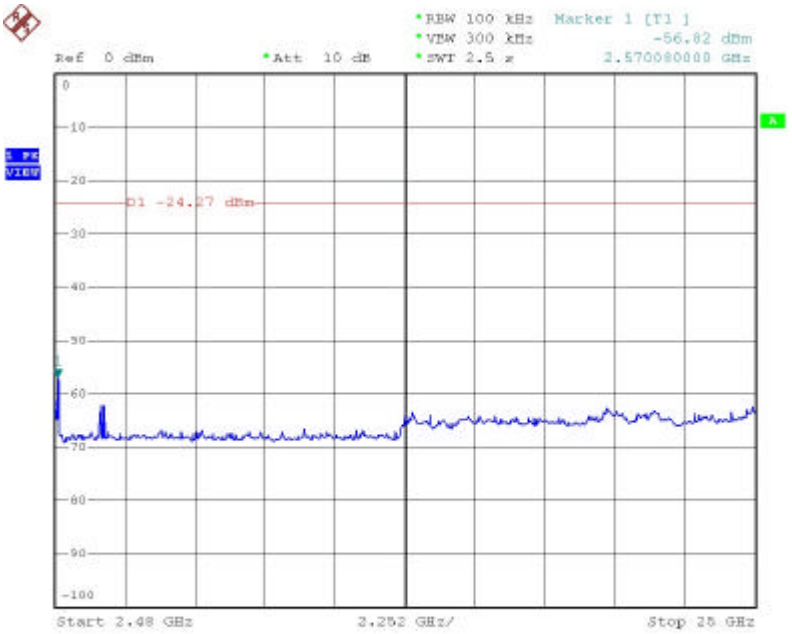



Date: 26.AUG.2004 19:30:34



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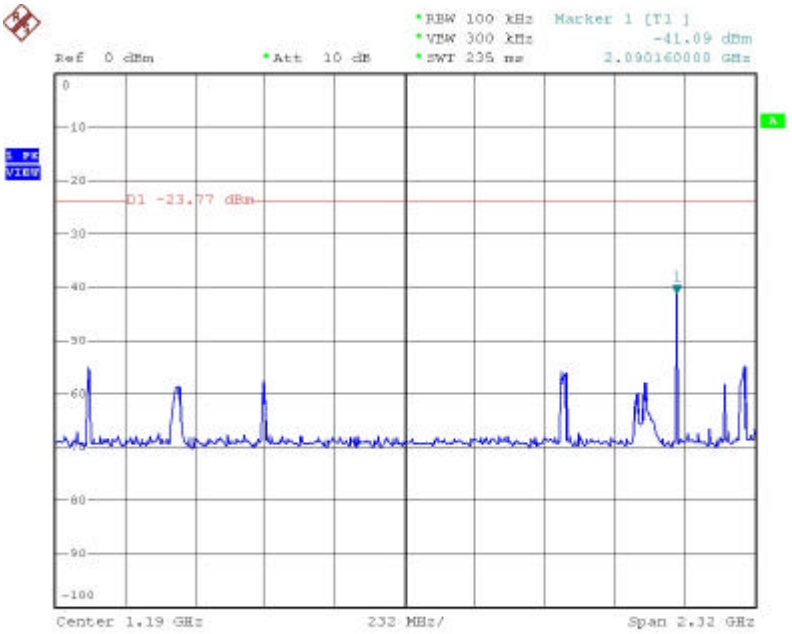
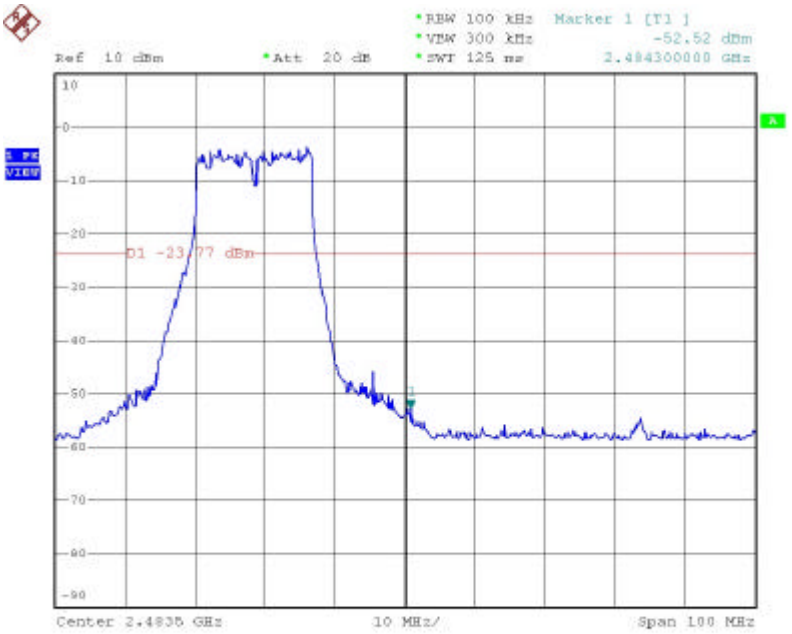
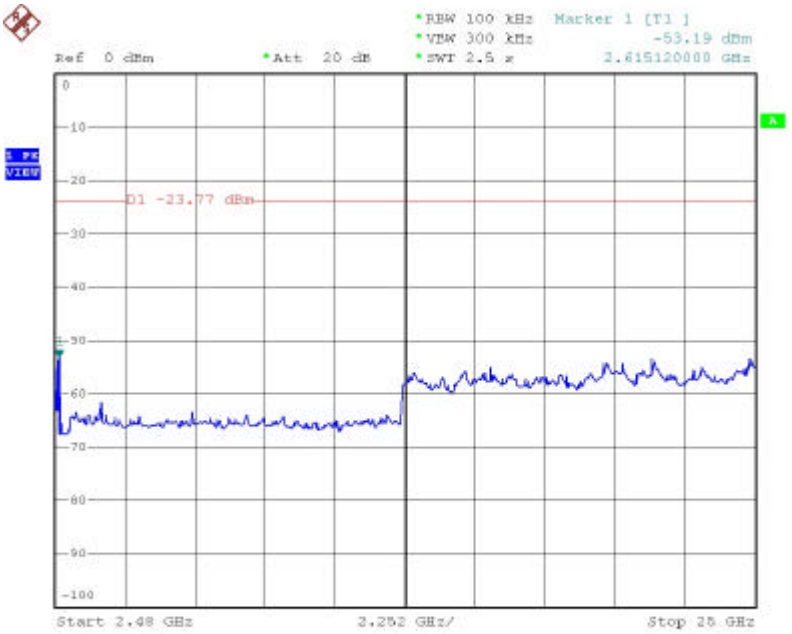



Date: 26.AUG.2004 19:24:52




Date: 26.AUG.2004 19:23:29




Date: 26.AUG.2004 19:27:31

4.6.1. Note on Band edge Emission

Modulation Standard: IEEE 802.11b

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

a) Channel 1

Fundamental Frequency: 2412 MHz

| Frequency (MHz) | Level (dBV) | Polarization | Remark | Limit@3m (dBuV/m) | | Margin (dB) | Table Deg. (Deg.) | Ant High (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | Peak | Ave. | | | |
| 2354.472 | 49.64 | H | Peak | 74 | 54 | -24.36 | 192 | 1.0 |
| 2354.472 | --- | H | Ave. | 74 | 54 | --- | --- | --- |
| 2389.968 | 52.15 | V | Peak | 74 | 54 | -21.85 | 220 | 1.0 |
| 2389.968 | --- | V | Ave. | 74 | 54 | --- | --- | --- |

b) Channel 11

Fundamental Frequency: 2462 MHz

| Frequency (MHz) | Level (dBuV) | Polarization | Remark | Limit@3m (dBuV/m) | | Margin (dB) | Table Deg. (Deg.) | Ant High (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | Peak | Ave. | | | |
| 2498.556 | 49.43 | H | Peak | 74 | 54 | -24.57 | 236 | 1.5 |
| 2498.556 | --- | H | Ave. | 74 | 54 | --- | --- | --- |
| 2486.624 | 50.12 | V | Peak | 74 | 54 | -23.88 | 196 | 1.0 |
| 2486.624 | --- | V | Ave. | 74 | 54 | --- | --- | --- |

Modulation Standard: IEEE 802.11g

Test Date: Sep. 01, 2004 Temperature: 23℃ Humidity: 65%

a) Channel 1

Fundamental Frequency: 2412 MHz

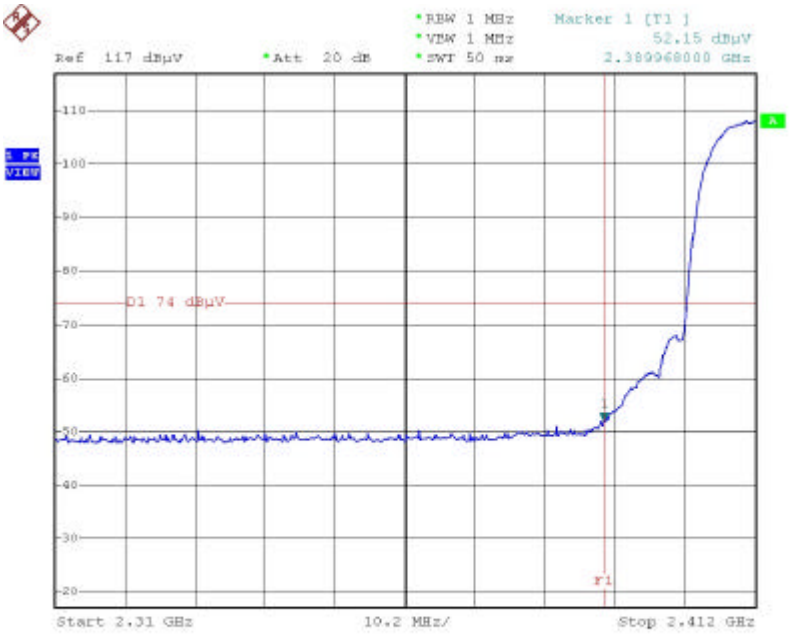
| Frequency (MHz) | Level (dBuV) | Polarization | Remark | Limit@3m (dBuV/m) | | Margin (dB) | Table Deg. (Deg.) | Ant High (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | Peak | Ave. | | | |
| 2353.656 | 49.44 | H | Peak | 74 | 54 | -24.56 | 190 | 1.5 |
| 2353.656 | --- | H | Ave. | 74 | 54 | --- | --- | --- |
| 2389.968 | 52.73 | V | Peak | 74 | 54 | -21.27 | 180 | 1.0 |
| 2389.968 | --- | V | Ave. | 74 | 54 | --- | --- | --- |

b) Channel 11

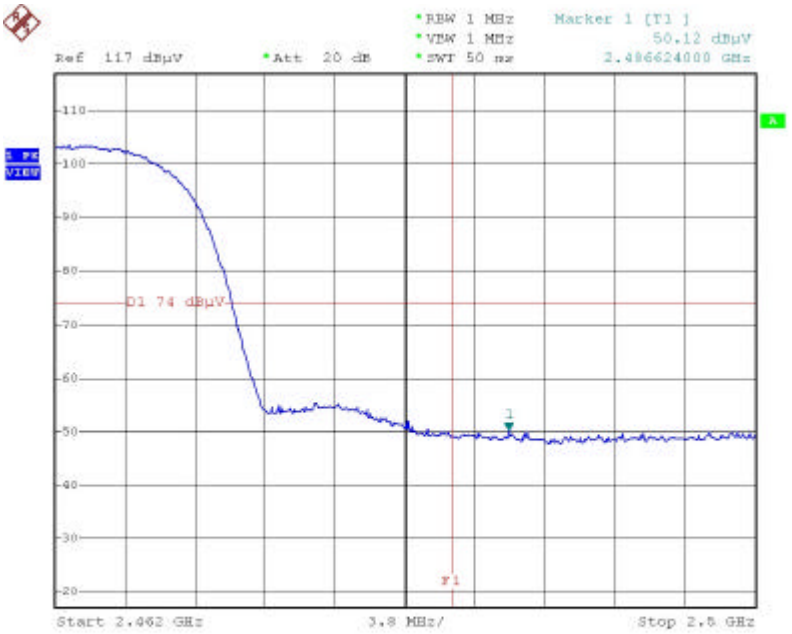
Fundamental Frequency: 2462 MHz

| Frequency (MHz) | Level (dBuV) | Polarization | Remark | Limit@3m (dBuV/m) | | Margin (dB) | Table Deg. (Deg.) | Ant High (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | Peak | Ave. | | | |
| 2488.524 | 49.52 | H | Peak | 74 | 54 | -24.48 | 230 | 1.0 |
| 2488.524 | --- | H | Ave. | 74 | 54 | --- | --- | --- |
| 2483.660 | 53.71 | V | Peak | 74 | 54 | -20.29 | 176 | 1.5 |
| 2483.660 | --- | V | Ave. | 74 | 54 | --- | --- | --- |

Modulation Standard: IEEE 802.11b
Pol/Phase: Vertical



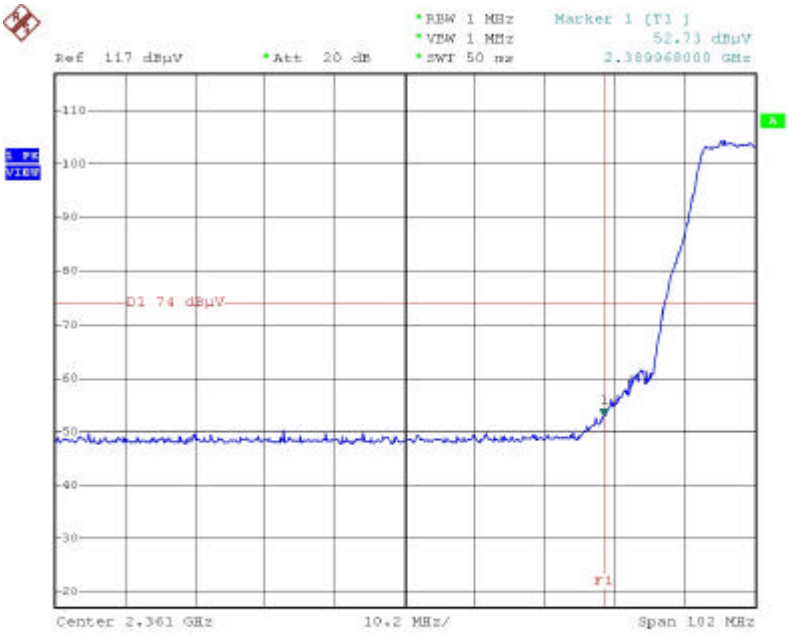

Date: 1.SEP.2004 01:59:47



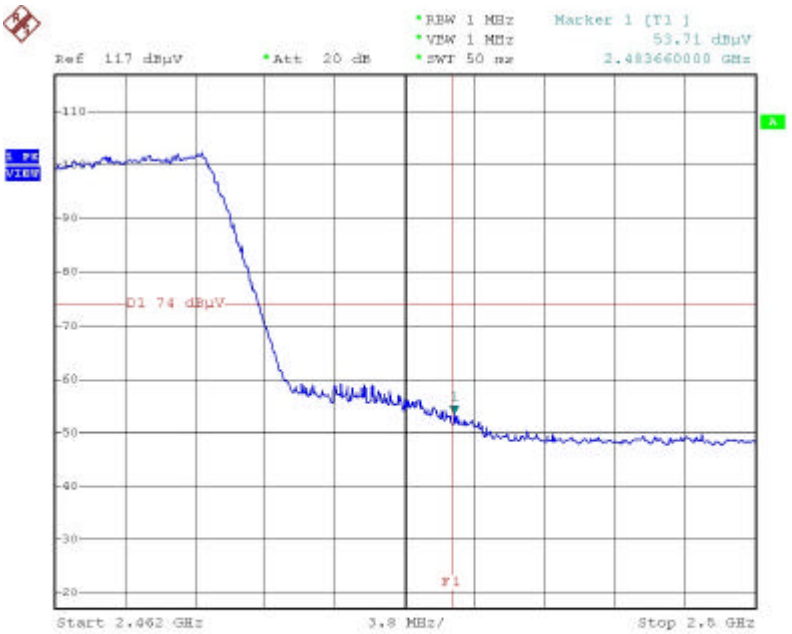

Date: 1.SEP.2004 02:30:38

Modulation Standard: IEEE 802.11g

Pol/Phase: Vertical




Date: 1.SEP.2004 02:04:35




Date: 1.SEP.2004 02:27:19

## 4.7. Power Spectral Density Measurement Data

(1) Modulation Standard: IEEE 802.11b

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -13.72 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -14.09 dBm

c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -14.06 dBm

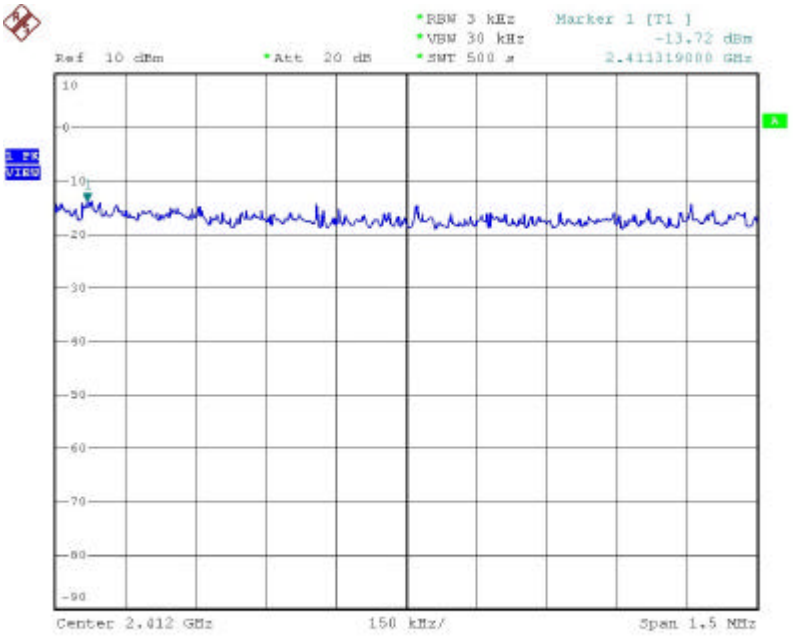
(2) Modulation Standard: IEEE 802.11g

Test Date: Aug. 26, 2004 Temperature: 24℃ Humidity: 64%

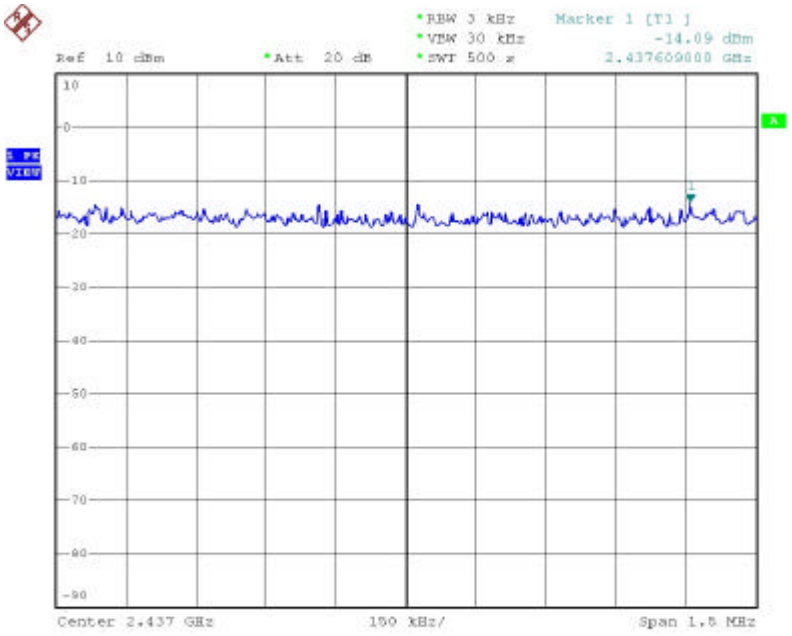
a) Channel 01: Maximum Power Density of 3 kHz Bandwidth is -18.59 dBm

b) Channel 06: Maximum Power Density of 3 kHz Bandwidth is -18.50 dBm

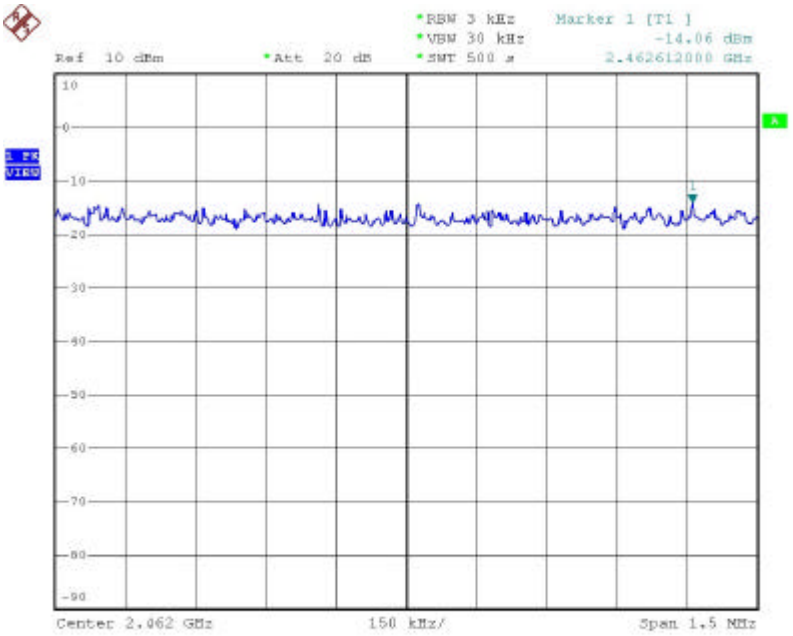
c) Channel 11: Maximum Power Density of 3 kHz Bandwidth is -18.28 dBm



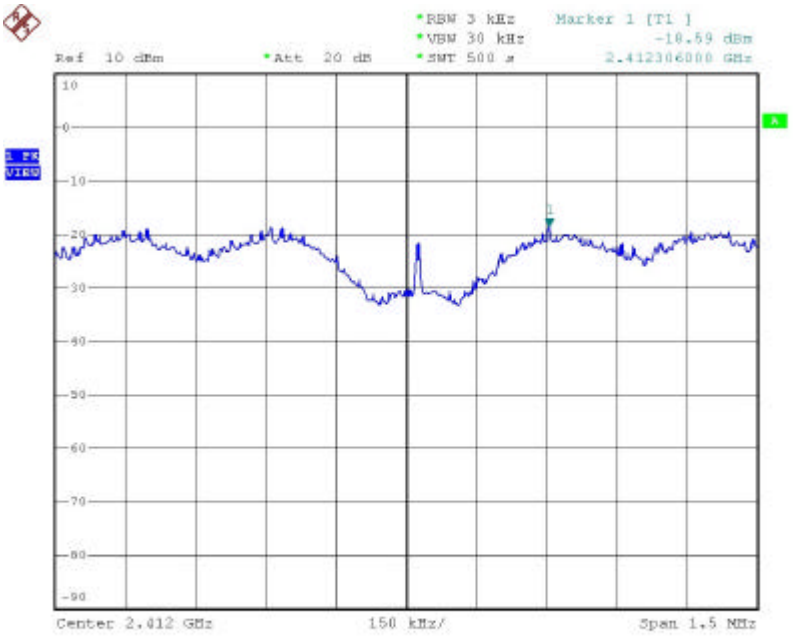

Date: 26.AUG.2004 20:56:05



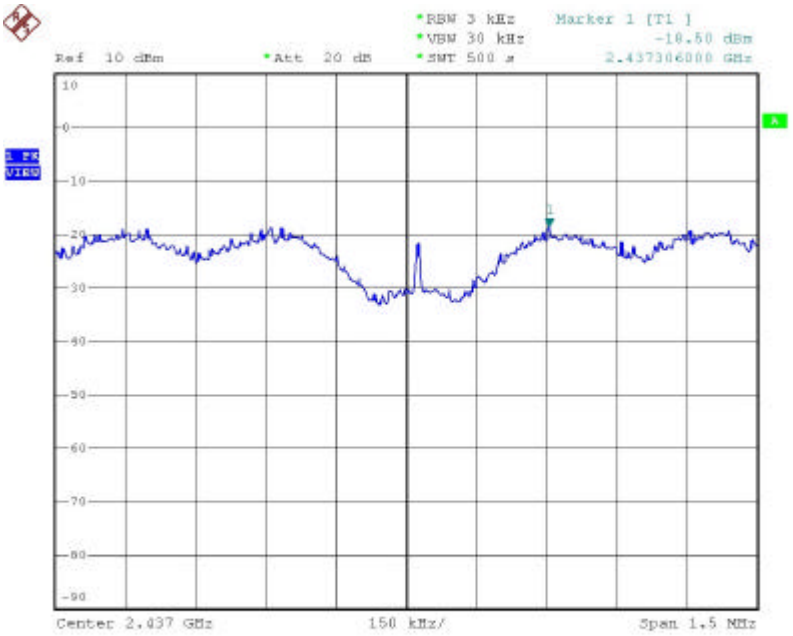

Date: 26.AUG.2004 21:20:32



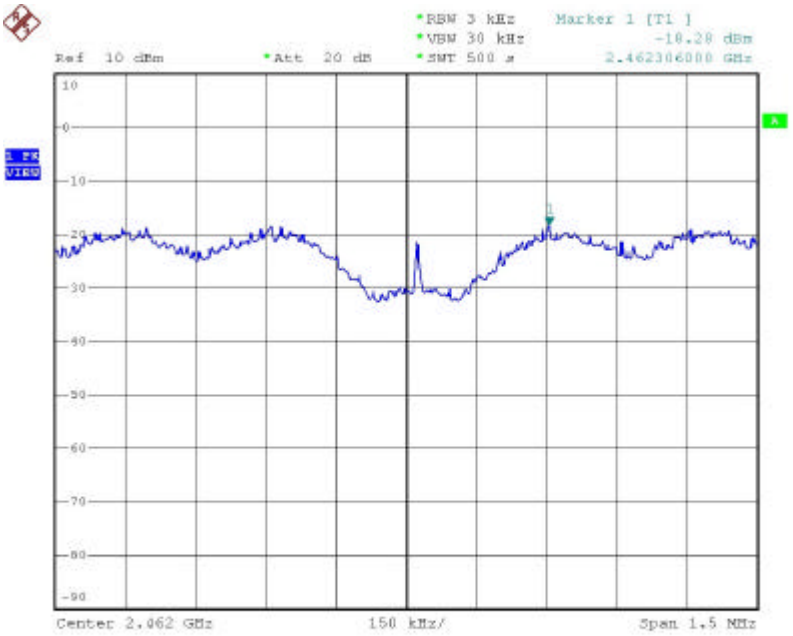

Date: 26.AUG.2004 21:36:53




Date: 26.AUG.2004 20:42:05




Date: 26.AUG.2004 20:29:36




Date: 26.AUG.2004 20:11:56

# 5. List of Measuring Equipment Used

| No | Instrument/Ancillary | Type | Manufacturer | Serial No. | Valid Date. |
|---|---|---|---|---|---|
| 1 | Bilog Antenna | CBL6111C | Schaffner | 2762 | 2004/11/03 |
| 2 | Preamplifier | RFP4002 | Schaffner | 010 | 2004/11/03 |
| 3 | Receiver | SCR3501 | Schaffner | 437 | 2004/11/03 |
| 4 | Signal Generator | 8648B | HP | 3629U00612 | 2006/02/09 |
| 5 | Spectrum Analyzer | 8594E | HP | 3520A01913 | 2005/01/15 |
| 6 | Amplifier | 8447D | Agilent | 2944A10593 | 2004/10/09 |
| 7 | Amplifier | 8447D | Agilent | 2944A10531 | 2005/06/30 |
| 8 | Series Power Meter | E4416A | Agilent | GB41292146 | 2004/11/05 |
| 9 | Power Sensor | E9327A | Agilent | US40441392 | 2004/10/06 |
| 10 | Dipole Antenna | AD-100 | COM-Power | 721011 | 2004/12/02 |
| 11 | Dipole Antenna | AD-100 | COM-Power | 721010 | 2004/12/02 |
| 12 | Spectrum Analyzer | R3131A | Advantest | 131000021 | 2004/11/24 |
| 13 | Spectrum Analyzer | FSP40 | R&S | 100047 | 2004/12/16 |
| 14 | Preamplifier | 8449B | Agilent | 3008A01954 | 2005/01/04 |
| 15 | Horn Antenna | 3115 | EMCO | 31601 | 2005/01/13 |
| 16 | Horn Antenna | 3115 | EMCO | 31589 | 2005/01/13 |
| 17 | Horn Antenna | 3116 | EMCO | 31970 | 2005/01/29 |
| 18 | Horn Antenna | 3116 | EMCO | 31974 | 2005/01/29 |
| 19 | EMI Receiver | 8546A | HP | 3807A00454 | 2005/02/12 |
| 20 | RF Filter Section | 85460A | HP | 3704A00386 | 2005/02/12 |
| 21 | Signal Generator | 83640A | HP | 2927A00107 | 2006/04/02 |
| 22 | Attenuator | 8491B | Agilent | 50703 | 2004/12/16 |
| 23 | Attenuator | 8491B | Agilent | 50705 | 2004/12/16 |
| 24 | Temperature Chamber | TMJ-9712 | T Machine | T-12-040111 | 2005/02/05 |
| 25 | High Pass Filter | 84300-80038 | HP | 002 | N/A |
| 26 | High Pass Filter | 84300-80038 | HP | 006 | N/A |
| 27 | DC Power Supply | GPD-3030 | GM | 7020936 | N/A |
| 28 | AC Power Converter | AFC-11005 | APC | F103120008 | N/A |