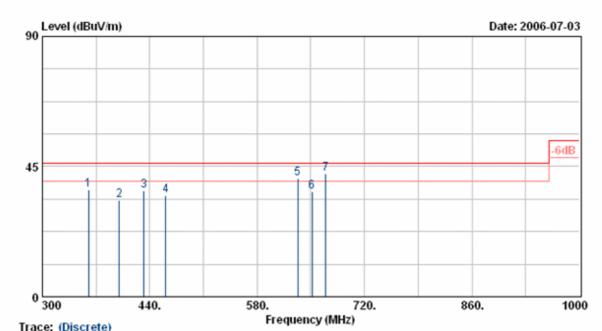
: DC 3.3V from PC : VERTICAL Power Pol/Phase : Transmit/Receive : 28 : 70 Test Mode Temperature % Humidity Operation Channel: 3 Modulation Type : 802.11MIMO+CB Atmospheric Pressure: 1010 hPa : 300 Mbps Rate

Memo



	ildee. (Dist	or oto,								
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
	MHz	dBuV/m	dB	dBu∀/m	dBu∀/m	dB		cm	Deg	
1	360.00	48.88	-11.78	37.10	46.00	-8.90	Peak	100	65	
2	400.01	44.14	-10.63	33.51	46.00	-12.49	Peak	100	44	
3	432.55	45.90	-9.39	36.51	46.00	-9.49	Peak	100	244	
4				34.91		-11.09	Peak	100	210	
		45.21		41.04	46.00	-4.96	QP	100	210	
б	651.35	40.26		36.37			Peak		352	
7	669.30	46.19	-3.71	42.48	46.00	-3.52	QP	100	360	
	460.90 633.25 651.35 669.30	40.26	-8.38 -4.17 -3.89 -3.71	36.37	46.00	-11.09 -4.96 -9.63 -3.52	QP Peak	100 100	210 352	

#### Notes:

- 1. Result = Read Value + Factor
- Factor = Antenna Factor + Cable Loss Amplifier
   The resolution bandwidth of test receiver/spectrum analyzer is 120KHz
- and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

  4. According to technical experiences, all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz, so that the channel 3 was chosen as representative in final test.
- 5. The data is worse case.

hPa

Atmospheric Pressure: 1010

Power : DC 3.3V from PC Pol/Phase : HORIZONTAL : 28 : 70 °C % Test Mode : Transmit/Receive Temperature Operation Channel: 3 Humidity

Modulation Type : 802.11MIMO+CB

Rate : 300

Memo

raco: (Discret			cy (MHz)	202001	200
1000	5800.	10600.	15400.	20200.	250
	2				
54					
07					
Level (dBu\	V/m)			Date:	2006-07-0

Item	Freq	Read	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
		dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4843.92	47 NS	5.76	52.81	74.00	-21.19	Peak	100	186

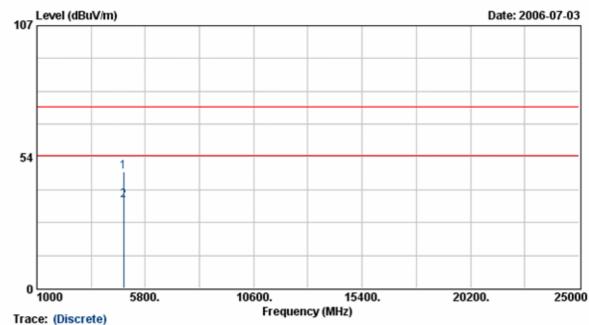
#### Notes:

- 1. Result = Read Value + Factor
  2. Factor = Antenna Factor + Cable Loss Amplifier
  3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- б. The other emissions is too low to be measured.

: DC 3.3V from PC Pol/Phase Power : VERTICAL Test Mode : Transmit/Receive : 28 Temperature % Operation Channel: 3 Humidity : 70 Modulation Type : 802.11MIMO+CB Atmospheric Pressure: 1010 hPa

Rate : 300 Mbps

Memo



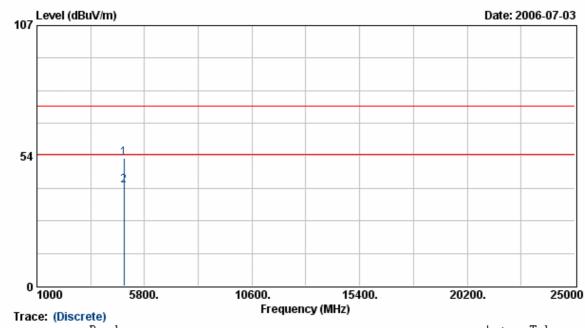
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1	4843.98	41.85	5.76		74.00	dB -26.38	Peak Average	cm 100	Deg 174	

### Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
  3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 16Hz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.

Rate : 300 Mbps

Memo :



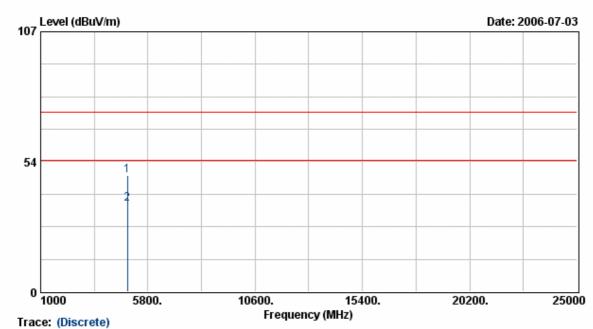
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2.	MHz 4873.97 4873.97	46.74	dB 5.85 5.85	dBuV/m 52.59 41.15	74.00	dB -21.41 -12.85	Peak	cm 100	Deg 186 186	

#### Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Power : DC 3.3V from PC Pol/Phase : VERTICAL Test Mode : 28 : Transmit/Receive Temperature % Operation Channel: 6 : 70 Humidity Modulation Type : 802.11MIMO+CB Atmospheric Pressure: 1010 hPa : 300 Rate Mbps

Memo



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
_	MHz 4874.05 4874.05	42.06	dB 5.85 5.85	47.91	dBuV/m 74.00 54.00	dB -26.09 -17.74	Peak Average	100	Deg 174 174

#### Notes:

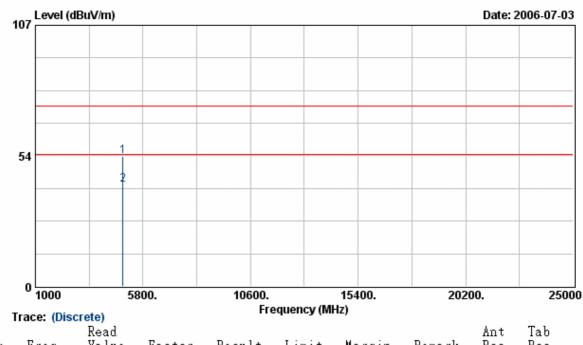
- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.

  4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

: DC 3.3V from PC Pol/Phase Power : HORIZONTAL : Transmit/Receive : 28 Test Mode r Temperature % Operation Channel: 9 : 70 Humidity Atmospheric Pressure: 1010 Modulation Type : 802.11MIMO+CB hPa

Rate : 300 Mbps

Memo :



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos	
1 2	MHz 4904.05 4904.05		dB 5.93 5.93	dBuV/m 53.39 41.73	74.00	dB -20.61 -12.27	Peak Average	cm 100 100	Deg 186 <mark>186</mark>	

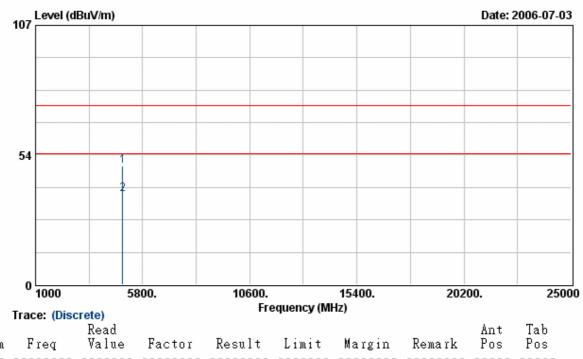
#### Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

Power : DC 3.3V from PC Pol/Phase : VERTICAL
Test Mode : Transmit/Receive Temperature : 28 °C
Operation Channel: 9 Humidity : 70 %
Modulation Type : 802.11MIMO+CB Atmospheric Pressure: 1010 hPa

Rate : 300 Mbps

Memo :



#### Item Freq -----MHz dBuV/m 4903.99 43.06 dΒ dBuV/m dBuV/m dB Deg cm5.93 -25.01 48.99 74.00 Peak 100 1745.93 2 4903.99 31.35 37.28 54.00 -16.72 Average 100

#### Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.

## 6. 6dB Bandwidth Measurement Data

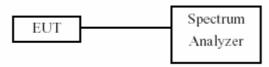
#### 6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 6.2 Test Procedures

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- 3. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

## 6.3 Test Setup Layout



## 6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

#### 6.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	8.5
06	2437	8.5
11	2462	8.5

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	19.1
06	2437	19.0
11	2462	19.3

(3) Modulation Standard: IEEE 802.11MIMO (144Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

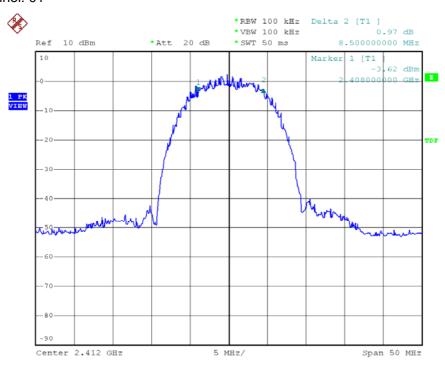
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
04	\ /	\ /	\
01	2412	17.8	17.8
06	2437	17.7	17.7
11	2462	17.7	17.9

(4) Modulation Standard: IEEE 802.11MIMO (300Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

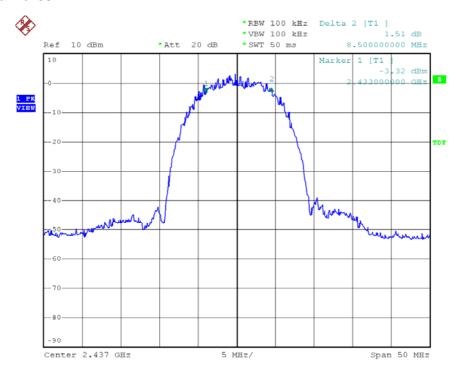
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
03	2422	36.2	36.4
06	2437	36.6	36.4
09	2452	36.2	35.8

## Modulation Standard: 802.11b (11Mbps) Channel: 01

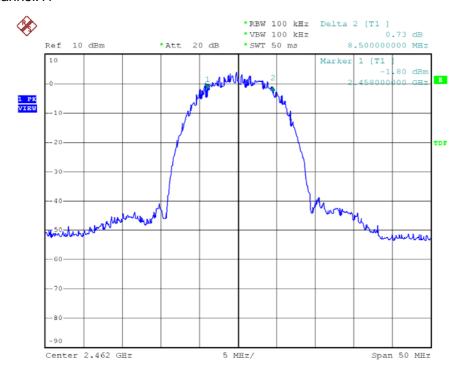


Date: 28.JUN.2006 11:38:07

#### Channel:06

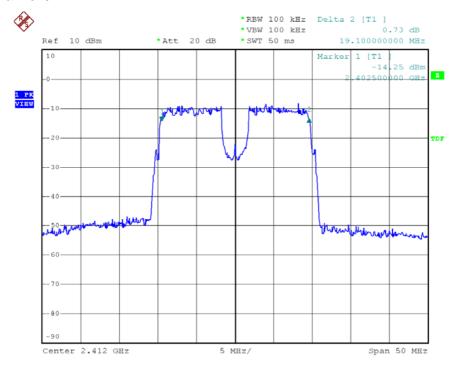


Date: 28.JUN.2006 11:40:30

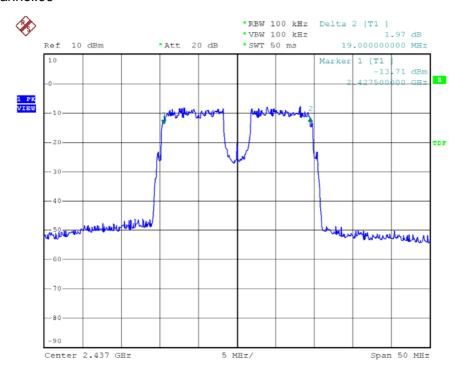


Date: 28.JUN.2006 11:43:05

## Modulation Standard:802.11g (54Mbps) Channel:01

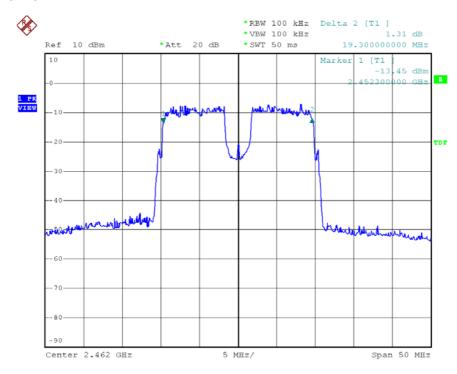


Date: 28.JUN.2006 11:51:32



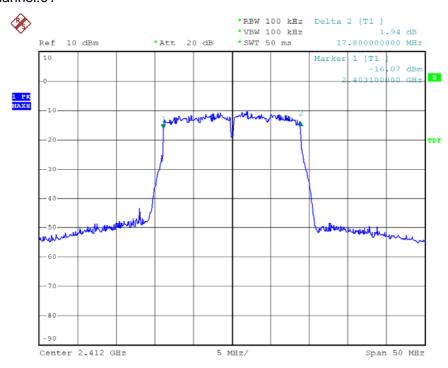
Date: 28.JUN.2006 11:49:35

#### Channel:11



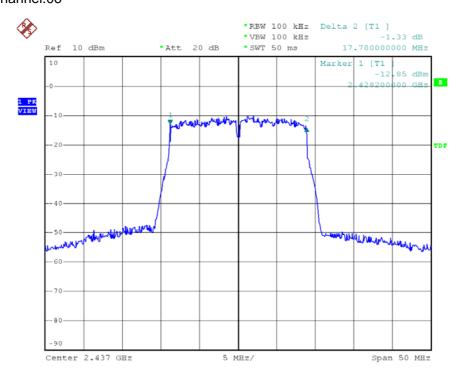
Date: 28.JUN.2006 11:46:50

## Modulation Standard:802.11MIMO(144Mbps) – TX0 Channel:01

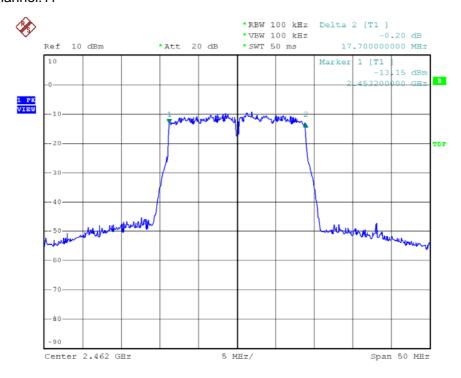


Date: 28.JUN.2006 16:42:09

### Channel:06

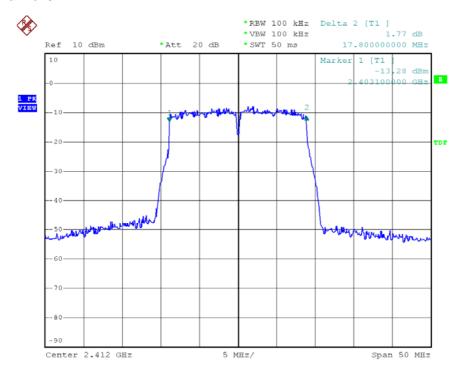


Date: 28.JUN.2006 16:44:37

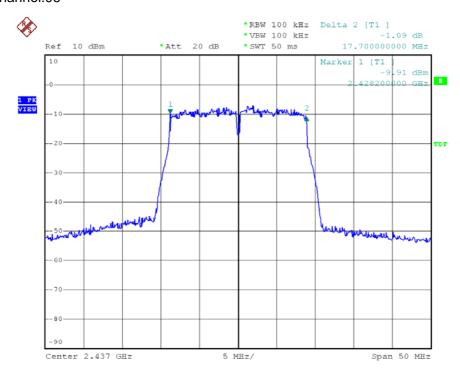


Date: 28.JUN.2006 16:48:25

# Modulation Standard:802.11MIMO(144Mbps) – TX1 Channel:01

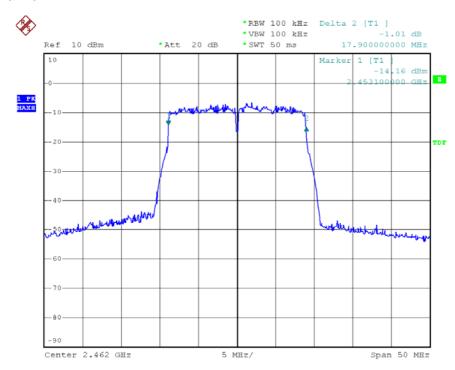


Date: 28.JUN.2006 17:11:48



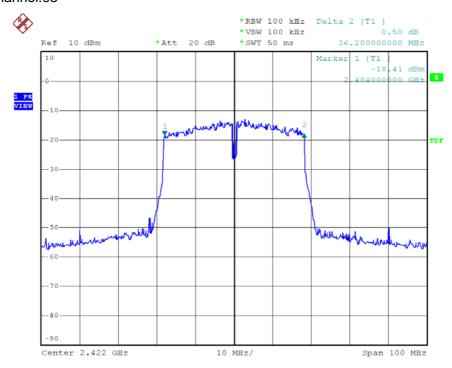
Date: 28.JUN.2006 17:02:21

## Channel:11



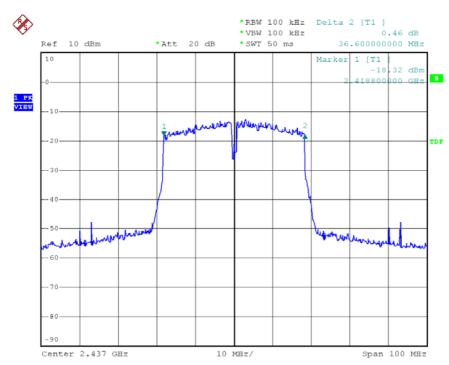
Date: 28.JUN.2006 16:52:54

## Modulation Standard:802.11MIMO(300Mbps) – TX0 Channel:03

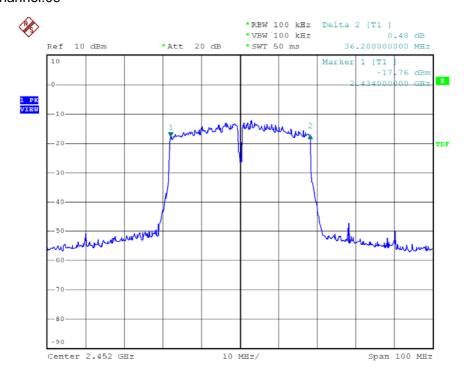


Date: 29.JUN.2006 10:50:29

### Channel:06

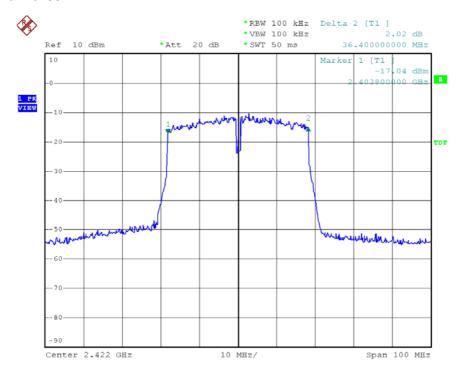


Date: 29.JUN.2006 11:00:21

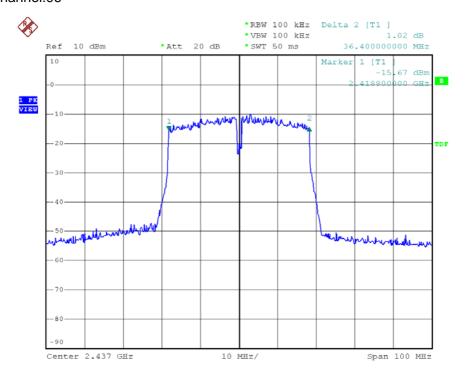


Date: 29.JUN.2006 11:03:05

# Modulation Standard:802.11MIMO (300Mbps) – TX1 Channel:03

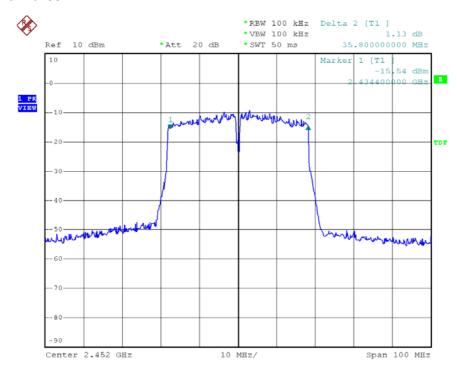


Date: 29.JUN.2006 11:10:34



Date: 29.JUN.2006 11:08:15

## Channel:09



Date: 29.JUN.2006 11:05:51

FCC Test Report: FI 06050201-C

## 7. Maximum Peak Output Power

#### 7.1 Test Limit

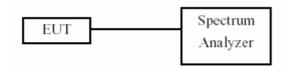
The Maximum Peak Output Power Measurement is 30dBm.

#### 7.2 Test Procedures

The antenna port( RF output )of the EUT was connected to the input( RF input )of a power meter.

Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 7.3 Test Setup Layout



### 7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

#### 7.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	16.85	48.40
06	2437	16.94	49.40
11	2462	17.49	56.10

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	12.78	19.00
06	2437	13.54	22.60
11	2462	14.04	25.40

(3) Modulation Standard: IEEE 802.11MIMO (144Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

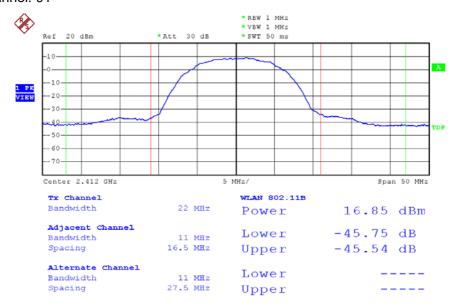
Channel	Frequency	Peak Power Output	Peak Power Output	Peak Power Output	Peak Power Output
Channel	(MHz)	Of TX0 (dBm)	Of TX1 (dBm)	Of Total (dBm)	Of Total (mW)
01	2412	10.45	12.95	14.89	30.82
06	2437	11.16	13.84	15.71	37.27
11	2462	11.73	14.53	16.36	43.27

(4) Modulation Standard: IEEE 802.11MIMO (300Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

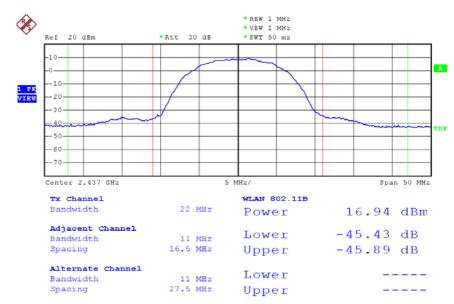
Channel	Frequency	Peak Power Output	Peak Power Output	Peak Power Output	Peak Power Output
Channel	(MHz)	Of TX0 (dBm)	Of TX1 (dBm)	Of Total (dBm)	Of Total (mW)
03	2422	10.51	12.85	14.85	30.52
06	2437	10.59	13.34	15.19	33.03
09	2452	11.00	13.75	15.60	36.30

## Modulation Standard: 802.11b (11Mbps) Channel: 01

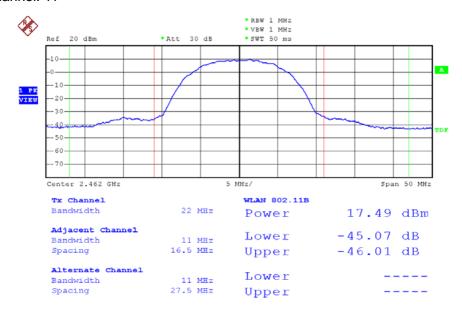


Date: 28.JUN.2006 11:27:23

### Channel:06

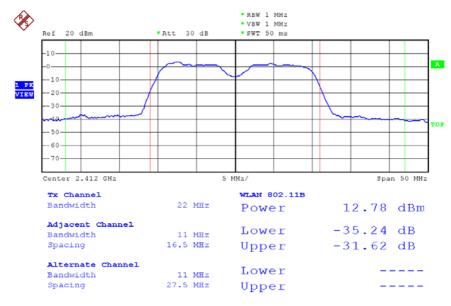


Date: 28.JUN.2006 11:26:13

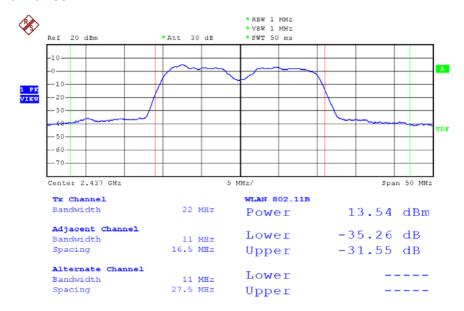


Date: 28.JUN.2006 11:23:52

## Modulation Standard:802.11g (54Mbps) Channel:01

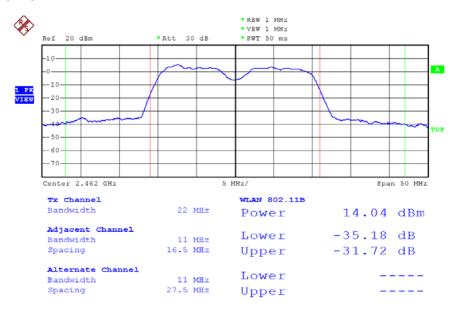


Date: 28.JUN.2006 11:31:08



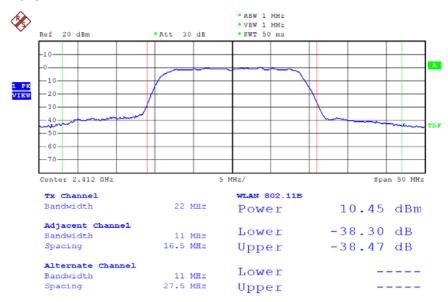
Date: 28.JUN.2006 11:30:12

### Channel:11



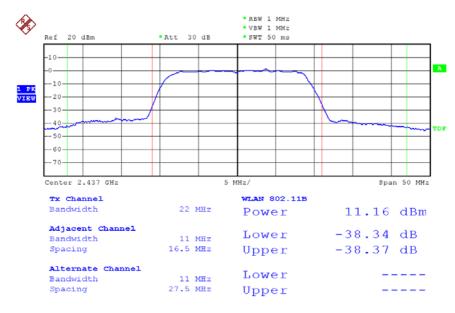
Date: 28.JUN.2006 11:29:08

## Modulation Standard:802.11MIMO (144Mbps) - TX0 Channel:01

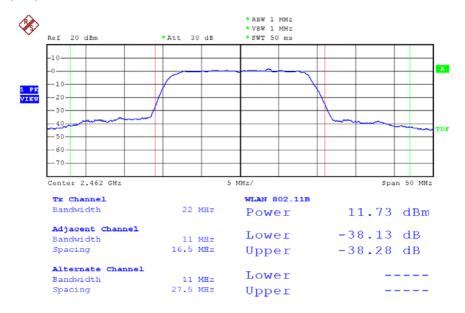


Date: 28.JUN.2006 16:27:04

### Channel:06

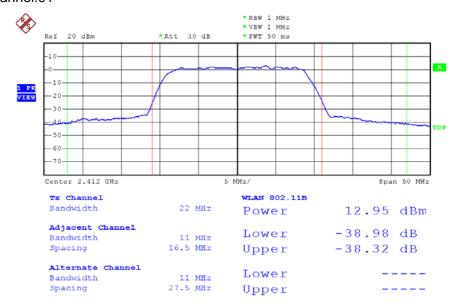


Date: 28.JUN.2006 16:26:26

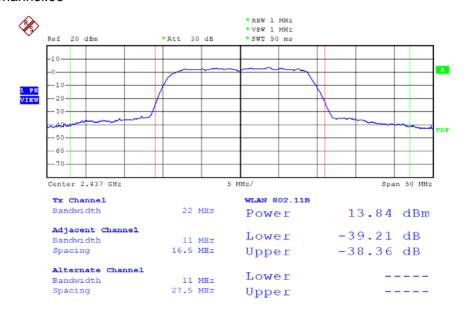


Date: 28.JUN.2006 16:25:28

## Modulation Standard:802.11MIMO (144Mbps) - TX1 Channel:01

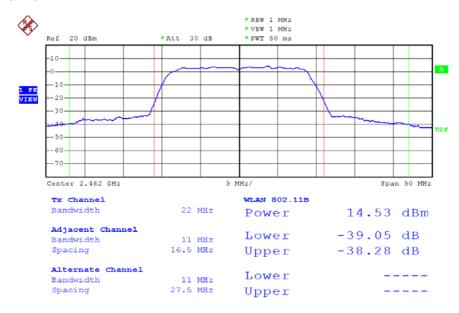


Date: 28.JUN.2006 16:19:01



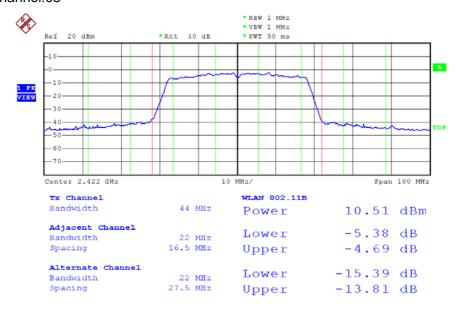
Date: 28.JUN.2006 16:18:03

#### Channel:11



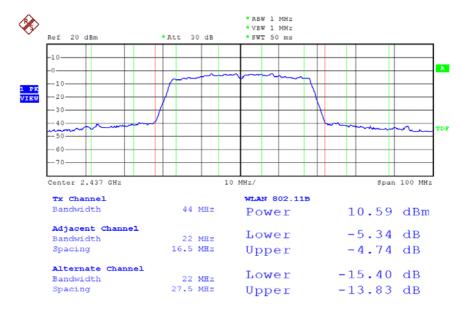
Date: 28.JUN.2006 16:14:59

## Modulation Standard:802.11MIMO ( 300Mbps) - TX0 Channel:03

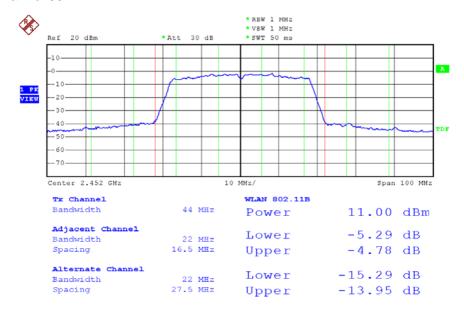


Date: 29.JUN.2006 10:43:53

### Channel:06

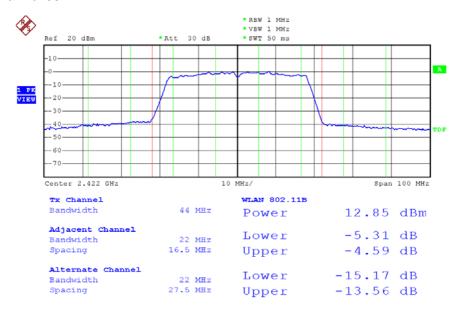


Date: 29.JUN.2006 10:35:34

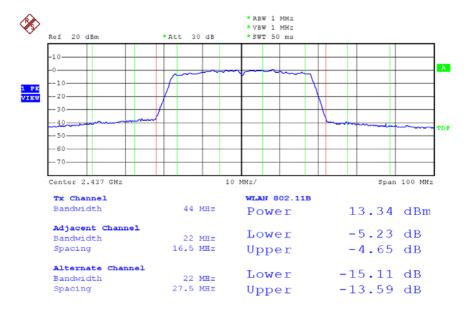


Date: 29.JUN.2006 10:34:20

# Modulation Standard:802.11MIMO (300Mbps) - TX1 Channel:03

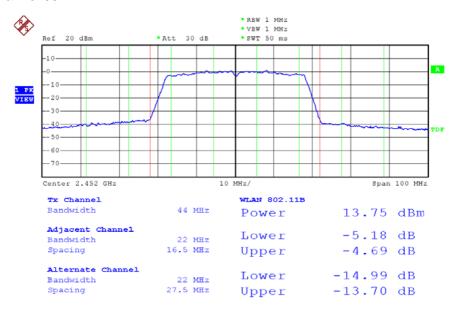


Date: 29.JUN.2006 10:31:07



Date: 29.JUN.2006 10:29:00

#### Channel:09



Date: 29.JUN.2006 10:27:20

FCC Test Report: FI 06050201-C

## 8. Band Edges Measurement

### 8.1 Test Limit

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

#### 8.2 Test Procedure:

- 1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- 2.Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- 3. The band edges was measured and recorded.

## 8.3 Test Setup Layout



## 8.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

### 8.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2398.6	-45.52
11	2462	2485.1	-42.48

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2398.8	-45.64
11	2462	2483.7	-50.89

(3) Modulation Standard: IEEE 802.11MIMO (144Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.6	-47.37
11	2462	2545.0	-49.86

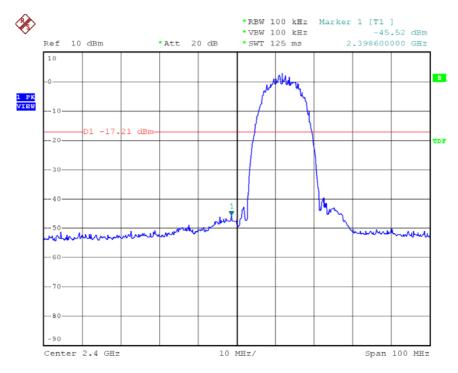
(4) Modulation Standard: IEEE 802.11MIMO (300Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

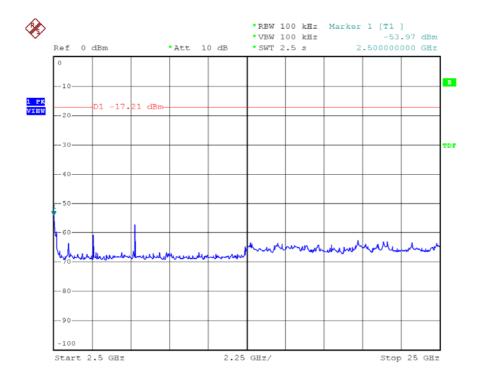
Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
03	2422	2545.0	-49.30
09	2452	2492.1	-48.94

## Modulation Standard: 802.11b (11Mbps)

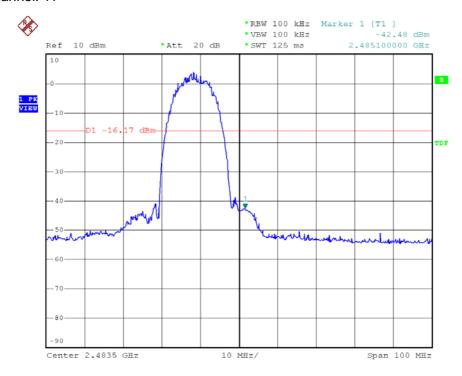
### Channel: 01



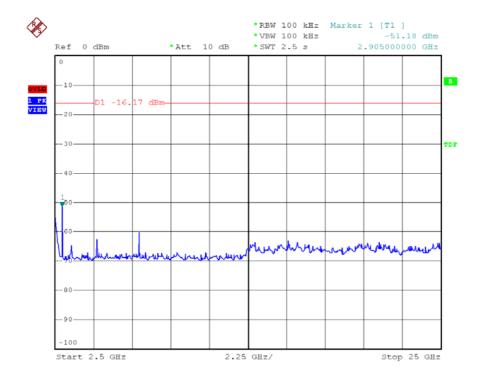
Date: 28.JUN.2006 13:50:58



Date: 28.JUN.2006 13:52:17



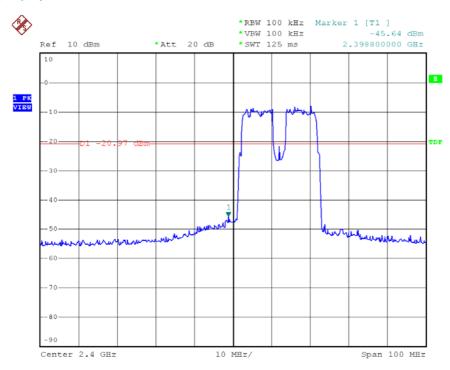
Date: 28.JUN.2006 13:56:15



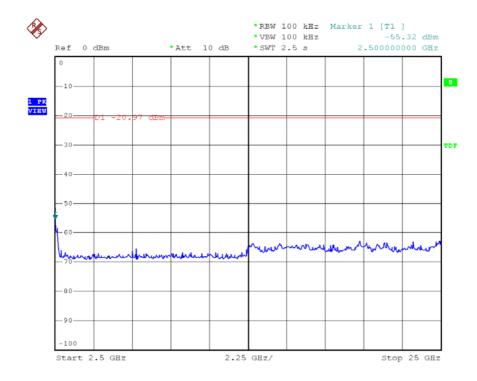
Date: 28.JUN.2006 13:56:58

## Modulation Standard: 802.11g (54Mbps)

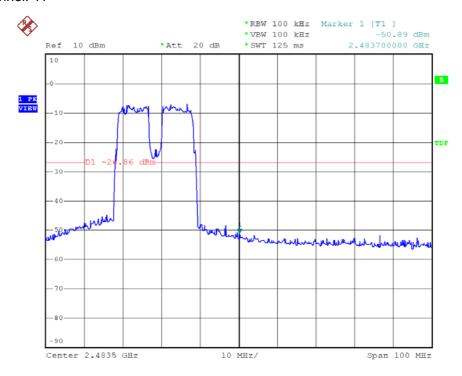
## Channel: 01



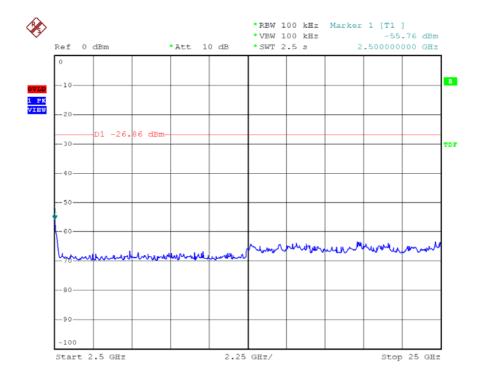
Date: 28.JUN.2006 13:59:26



Date: 28.JUN.2006 14:00:45



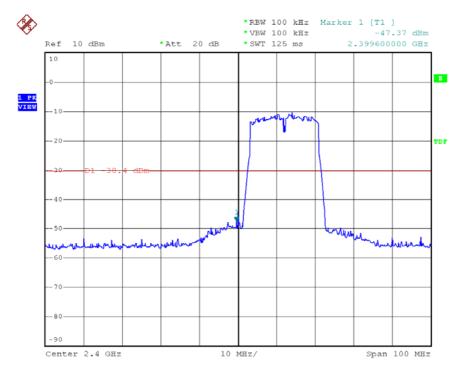
Date: 28.JUN.2006 14:04:52



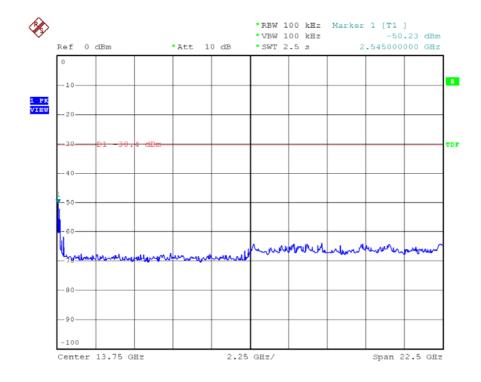
Date: 28.JUN.2006 14:06:04

## Modulation Standard: 802.11MIMO (144Mbps)

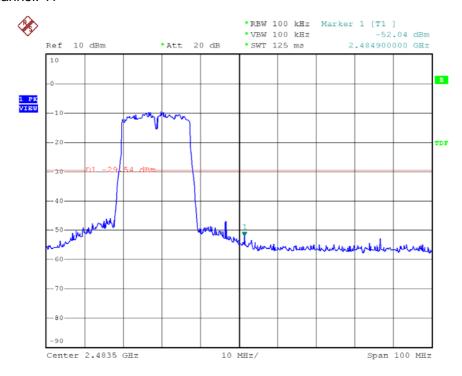
#### Channel: 01



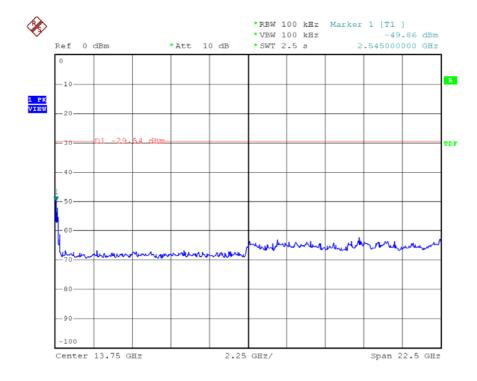
Date: 28.JUN.2006 17:24:16



Date: 28.JUN.2006 17:25:12



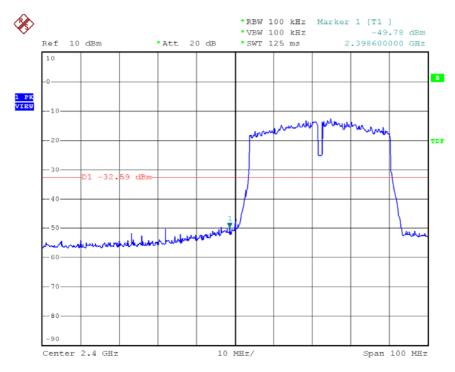
Date: 28.JUN.2006 17:27:23



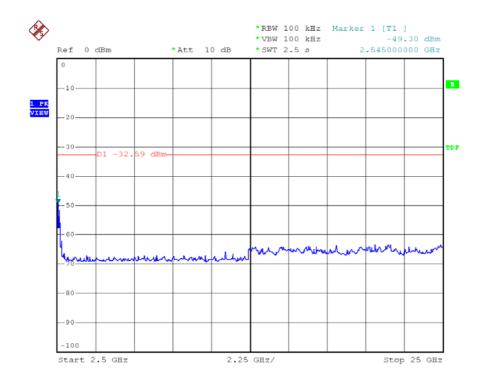
Date: 28.JUN.2006 17:29:08

## Modulation Standard: 802.11MIMO (300Mbps)

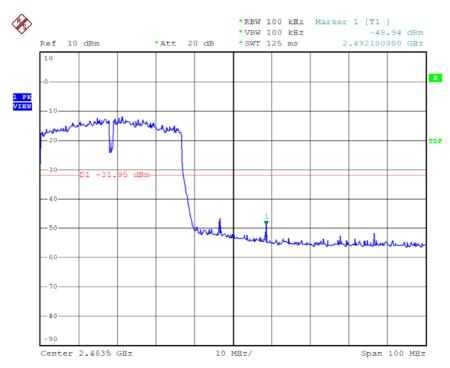
### Channel: 03



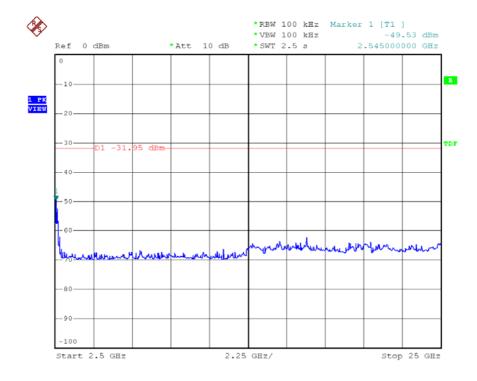
Date: 29.JUN.2006 13:47:43



Date: 29.JUN.2006 13:50:24



Date: 29.JUN.2006 13:53:09



Date: 29.JUN.2006 13:54:29

FCC Test Report: FI 06050201-C

#### 8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jul. 03, 2006 Temperature: 28 Humidity: 70% Atmospheric pressure: 1010 hPa

#### a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m) Remark		Limit( (dBu)		Margin (dB)	Table (Deg.)	Ant High
()		- rodaing		(4241,)		Peak	Ave.	(4.2)	(= 09.)	(m)
2389.968	Н	57.53	-0.75	56.78	Peak	74	54	-17.22	186	1.2
2389.968	Н	45.80	-0.75	45.05	Ave	74	54	-8.95	186	1.2
2389.254	V	52.15	-0.75	51.40	Peak	74	54	-22.60	174	1.0
2389.968	V	40.16	-0.75	39.86	Ave	74	54	-14.14	174	1.0

#### b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit( (dBu		Margin (dB)	Table (Deg.)	Ant High
		3		(1 1 1 )		Peak	Ave.	(	( -3)	(m)
2483.736	Н	58.03	-0.45	57.58	Peak	74	54	-16.42	186	1.2
2483.622	Н	46.26	-0.45	45.81	Ave	74	54	-8.19	186	1.2
2483.508	V	52.76	-0.45	52.31	Peak	74	54	-21.69	174	1.0
2483.505	V	40.99	-0.45	40.54	Ave	74	54	-13.46	174	1.0

Modulation Standard: 802.11g (54Mbps)

Test Date: Jul. 03, 2006 Temperature: 28 Humidity: 70% Atmospheric pressure: 1010 hPa

#### a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark		@3m V/m)	Margin (dB)	Table (Deg.)	Ant High
,		3		( /		Peak	Ave.	(	( -3)	(m)
2389.254	Η	56.89	-0.75	56.14	Peak	74	54	-17.86	186	1.2
2389.764	Н	45.14	-0.75	44.39	Ave	74	54	-9.61	186	1.2
2389.968	<b>V</b>	51.04	-0.75	50.29	Peak	74	54	-23.71	174	1.0
2389.968	V	39.19	-0.75	39.16	Ave	74	54	-14.84	174	1.0

#### b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark		@3m V/m)	Margin (dB)	Table (Deg.)	Ant High
,	·	3		(1 1 1 )		Peak	Ave.	( ,	( -3)	(m)
2483.622	Н	58.55	-0.45	58.10	Peak	74	54	-15.90	186	1.2
2483.546	Н	46.88	-0.45	46.43	Ave	74	54	-7.57	186	1.2
2483.508	V	52.11	-0.45	51.66	Peak	74	54	-22.34	174	1.0
2483.508	V	40.49	-0.45	40.04	Ave	74	54	-13.96	174	1.0

#### Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz

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Modulation Standard: IEEE 802.11MIMO (144Mbps)

Test Date: Jul. 03, 2006 Temperature: 28 Humidity: 70% Atmospheric pressure: 1010 hPa

#### c) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Limit@3m Remark (dBuV/m) Margin (dB)				Table (Deg.)	Ant High
(				(======================================		Peak	Ave.	(=-)	(= -3-)	(m)
2389.764	Н	56.35	-0.75	55.60	Peak	74	54	-18.40	186	1.2
2389.968	Н	44.67	-0.75	43.92	Ave	74	54	-10.08	186	1.2
2389.968	V	50.32	-0.75	49.57	Peak	74	54	-24.43	174	1.0
2389,968	V	38.64	-0.75	37.89	Ave	74	54	-16.11	174	1.0

## d) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit( (dBu		Margin (dB)	Table (Deg.)	Ant High
(**************************************				(======================================		Peak	Ave.	(3.2)	(= -3-)	(m)
2483.736	Н	57.51	-0.45	57.06	Peak	74	54	-16.94	186	1.2
2483.508	Η	45.95	-0.45	45.50	Ave	74	54	-8.50	186	1.2
2483.622	V	51.88	-0.45	51.43	Peak	74	54	-22.57	174	1.0
2483.508	V	39.90	-0.45	39.45	Ave	74	54	-14.55	174	1.0

Modulation Standard: IEEE 802.11MIMO (300Mbps)

Test Date: Jul. 03, 2006 Temperature: 28 Humidity: 70% Atmospheric pressure: 1010 hPa

#### e) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Remark (ubuv/III)				Table (Deg.)	Ant High	
, ,		3		(* * * )		Peak	Ave.	(	( -3)	(m)
2389.968	Н	57.14	-0.75	56.39	Peak	74	54	-17.61	186	1.2
2389.968	Н	45.35	-0.75	44.60	Ave	74	54	-9.40	186	1.2
2389.764	V	51.12	-0.75	50.37	Peak	74	54	-23.63	174	1.0
2389.764	V	39.48	-0.75	38.73	Ave	74	54	-15.27	174	1.0

### f) Channel 09

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3r ark (dBuV/m		Margin (dB)	Table (Deg.)	Ant High
(**** :=/				(====,,,		Peak	Ave.	(=-)	(= -9-)	(m)
2483.508	Н	58.63	-0.45	58.18	Peak	74	54	-15.82	186	1.2
2483.508	Η	46.88	-0.45	-46.43	Ave	74	54	-7.57	186	1.2
2483.508	V	52.75	-0.45	-52.30	Peak	74	54	-21.70	174	1.0
2483.508	V	41.14	-0.45	-40.69	Ave	74	54	-13.31	174	1.0

## 9. Power Spectral Density

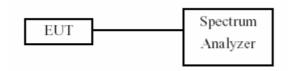
#### 9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

#### 9.2 Test Procedures

- 1. The transmitter output was connected to spectrum analyzer.
- 2. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- 3. The power spectral density was measured and recorded.
- 4. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

### 9.3 Test Setup Layout:



### 9.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

#### 9.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-11.52
06	2437	-10.60
11	2462	-10.09

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth
Chamer	rrequericy	(dBm)
01	2412	-25.05
06	2437	-24.15
11	2462	-25.71

## (3) Modulation Standard: IEEE 802.11MIMO (144Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

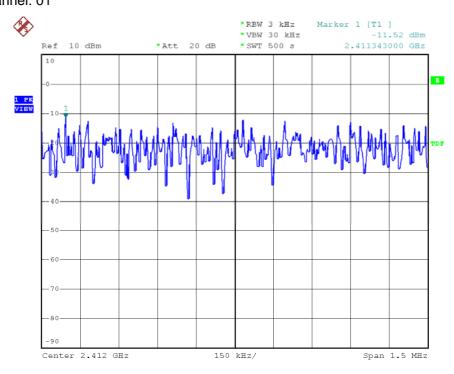
		Maximum Power Density	Maximum Power Density	Maximum Power Density
Channal	Eroguenov	of 3 kHz Bandwidth	of 3 kHz Bandwidth	of 3 kHz Bandwidth
Channel	Frequency	TX0	TX1	Total
		(dBm)	(dBm)	(dBm)
01	2412	-27.13	-23.22	-21.74
06	2437	-24.58	-22.37	-20.33
11	2462	-24.34	-21.86	-19.92

## (4) Modulation Standard: IEEE 802.11MIMO ( 300Mbps)

Test Date: Jun. 28, 2006 Temperature: 24 Humidity: 68% Atmospheric pressure: 1012 hPa

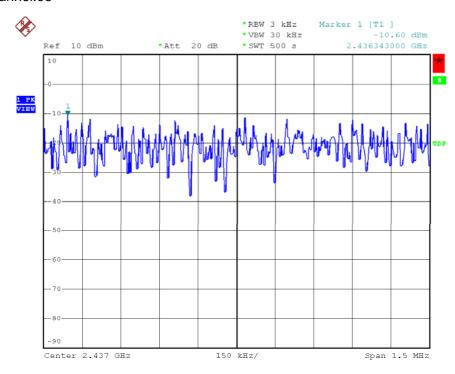
Channel	Frequency	Maximum Power Density	Maximum Power Density	Maximum Power Density
		of 3 kHz Bandwidth	of 3 kHz Bandwidth	of 3 kHz Bandwidth
		TX0	TX1	Total
		(dBm)	(dBm)	(dBm)
03	2422	-26.23	-25.04	-22.58
06	2437	-26.78	-24.64	-22.57
09	2452	-25.79	-24.24	-21,94

## Modulation Standard: 802.11b (11Mbps) Channel: 01

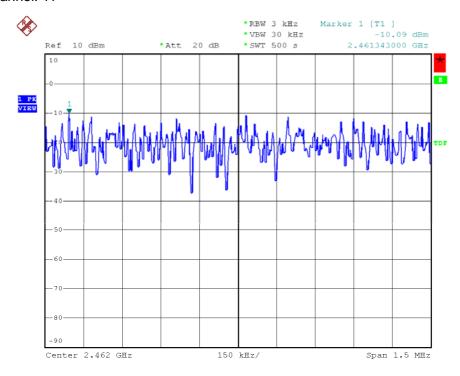


Date: 28.JUN.2006 14:21:05

#### Channel:06

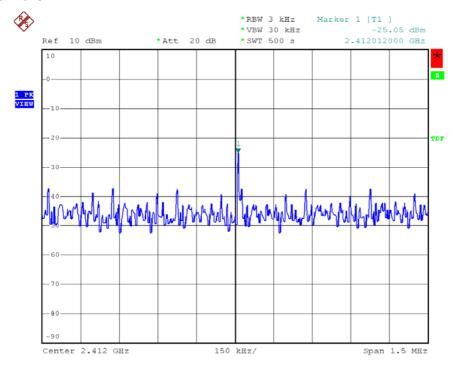


Date: 28.JUN.2006 14:30:47

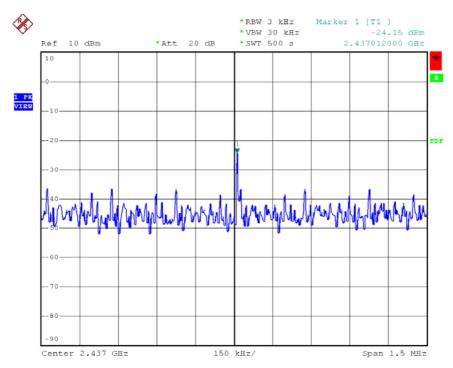


Date: 28.JUN.2006 14:45:50

## Modulation Standard:802.11g (54Mbps) Channel:01

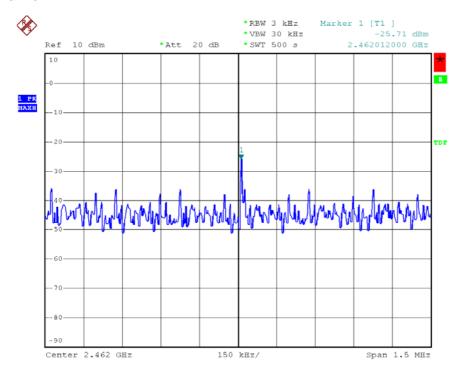


Date: 28.JUN.2006 15:22:39



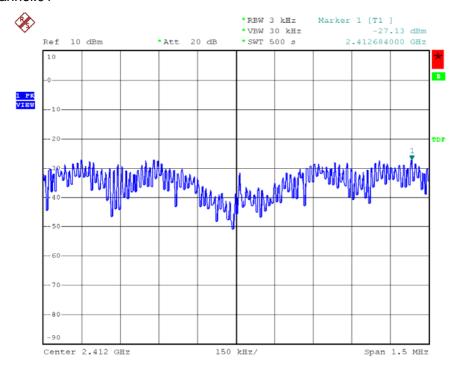
Date: 28.JUN.2006 15:11:19

#### Channel:11



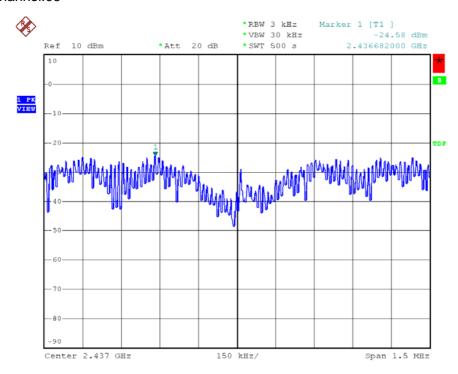
Date: 28.JUN.2006 15:00:20

## Modulation Standard:802.11MIMO (144Mbps) – TX0 Channel:01

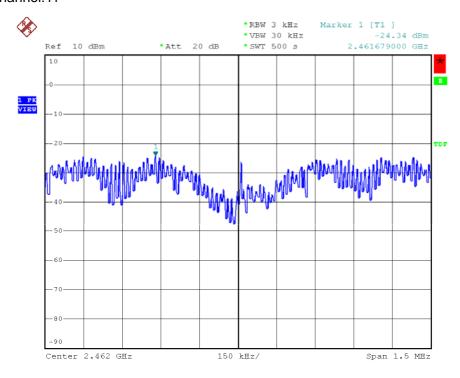


Date: 28.JUN.2006 18:05:39

#### Channel:06

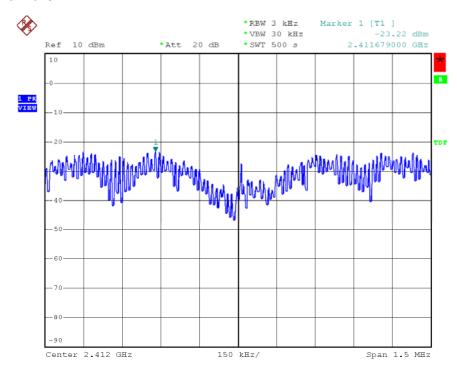


Date: 28.JUN.2006 18:16:20

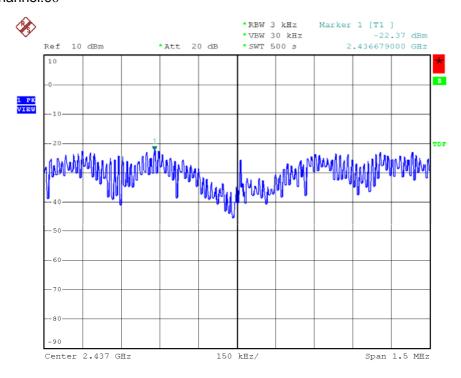


Date: 29.JUN.2006 09:38:23

# Modulation Standard:802.11MIMO (144Mbps) – TX1 Channel:01

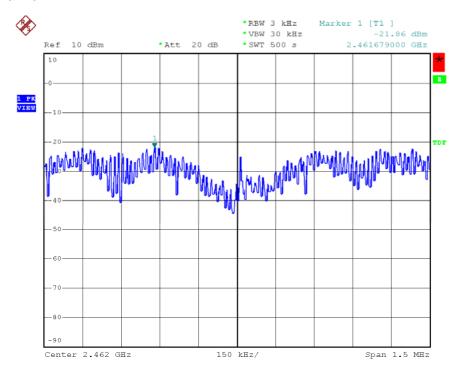


Date: 29.JUN.2006 10:09:52



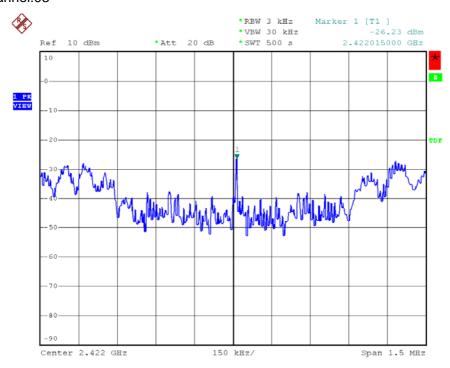
Date: 29.JUN.2006 09:59:58

### Channel:11



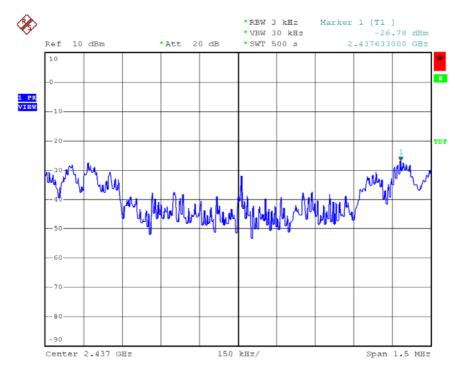
Date: 29.JUN.2006 09:50:42

## $\label{eq:modulation_standard} \mbox{Modulation Standard:802.11MIMO ( 300Mbps)} - \mbox{TX0} \\ \mbox{Channel:03}$

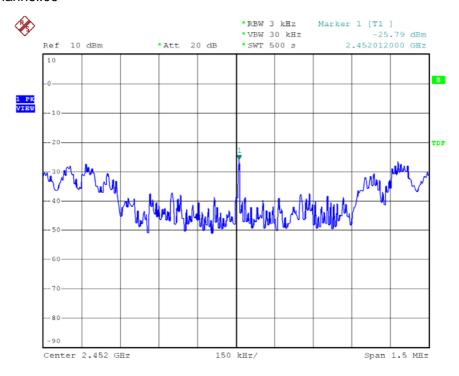


Date: 29.JUN.2006 13:42:04

#### Channel:06

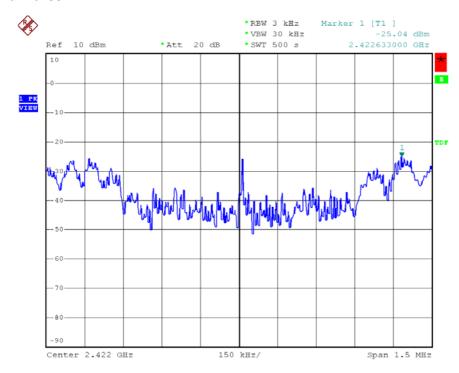


Date: 29.JUN.2006 13:32:36

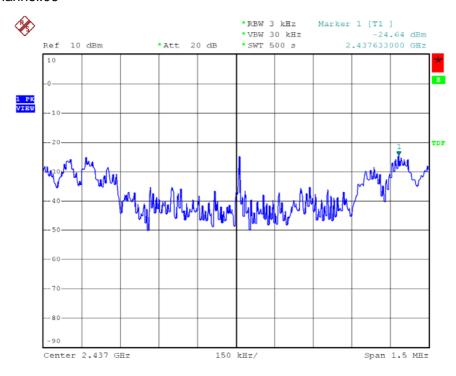


Date: 29.JUN.2006 12:22:51

# Modulation Standard:802.11MIMO ( 300Mbps) – TX1 Channel:03

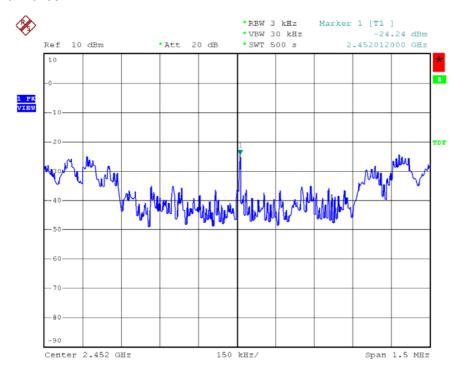


Date: 29.JUN.2006 11:27:40



Date: 29.JUN.2006 11:43:49

### Channel:09



Date: 29.JUN.2006 11:54:50

## 10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 – 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 - 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 - 12.700
6.26775 - 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 - 13.400
6.31175 - 6.31225	123.00000 – 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 - 16.200
8.36200 - 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 – 156.90000	2655.0 - 2900.0	22.010 - 23.120
8.41425 - 8.41475	162.01250 – 167.17000	3260.0 - 3267.0	23.600 - 24.000
12.29000 - 12.29300	167.72000 – 173.20000	3332.0 - 3339.0	31.200 - 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

<sup>\*\*:</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

## 10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.