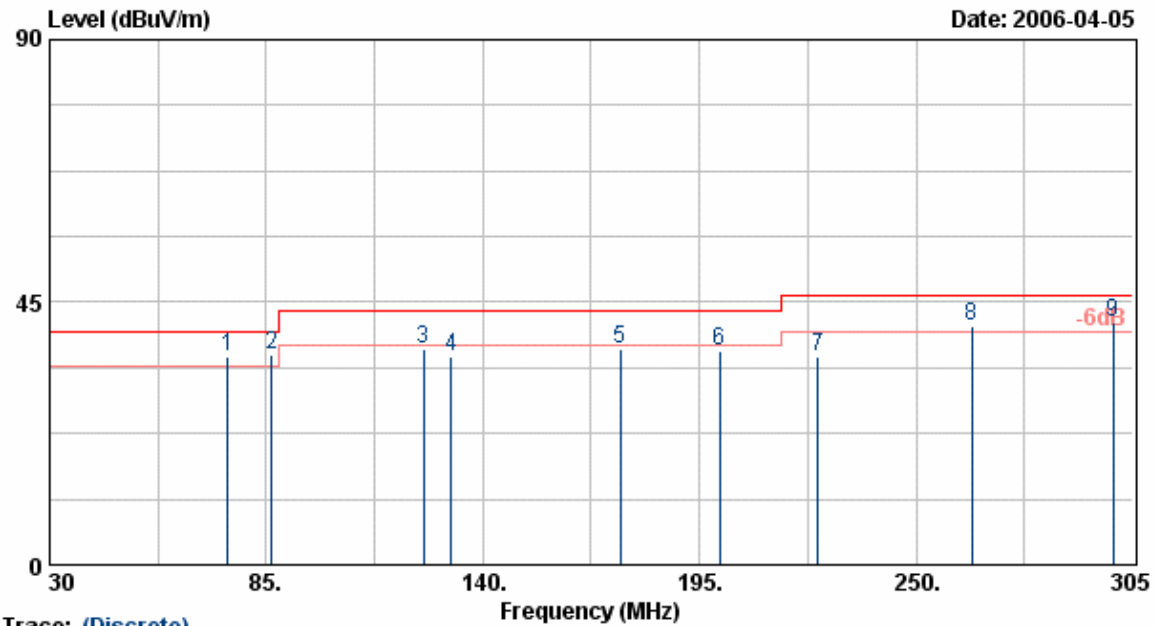


EUT : WNR834B
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11MIMO+CB
 Rate : 270 Mbps
 Memo : DSA-0131F-12 US 12

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1010 mmHg



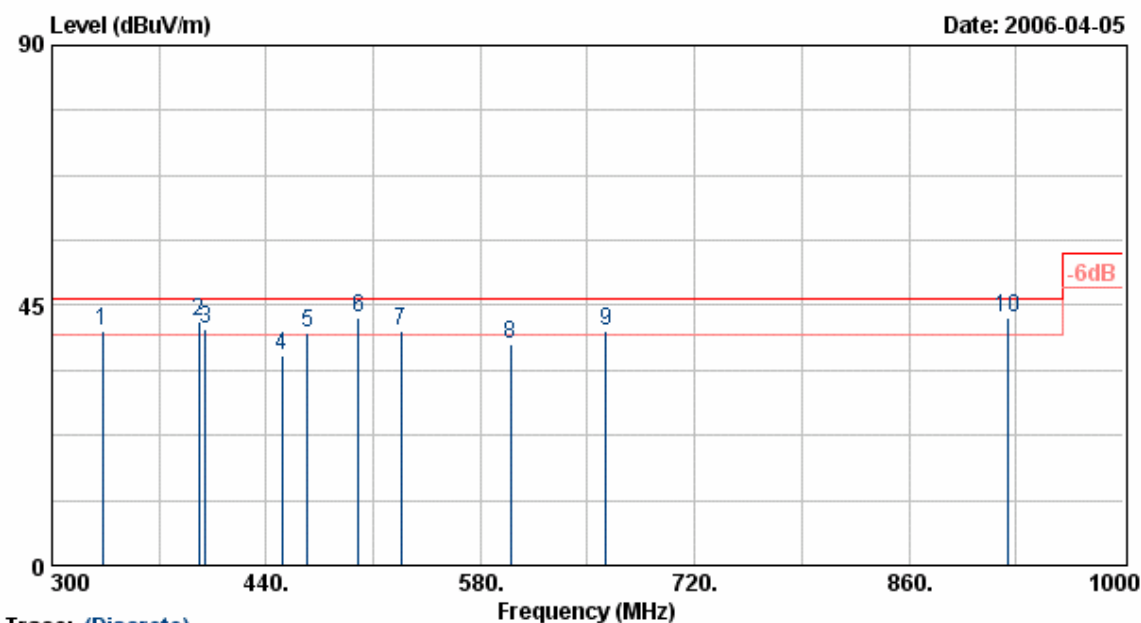
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
75.20	55.80	-20.26	35.54	40.00	-4.46	QP	66	100
86.41	54.88	-18.83	36.05	40.00	-3.95	QP	0	100
125.00	52.59	-15.68	36.91	43.50	-6.59	Peak	185	100
132.00	51.44	-15.75	35.69	43.50	-7.81	Peak	25	100
174.99	54.86	-17.79	37.07	43.50	-6.43	Peak	321	100
200.00	54.54	-18.01	36.53	43.50	-6.97	Peak	360	100
225.01	52.83	-17.07	35.76	46.00	-10.24	Peak	360	100
264.02	53.96	-12.99	40.97	46.00	-5.03	QP	333	100
300.01	54.90	-13.21	41.69	46.00	-4.31	QP	78	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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. 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.

EUT : WNR834B
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11MIMO+CB
 Rate : 270 Mbps
 Memo : DSA-0131F-12 US 12

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1010 mmHg

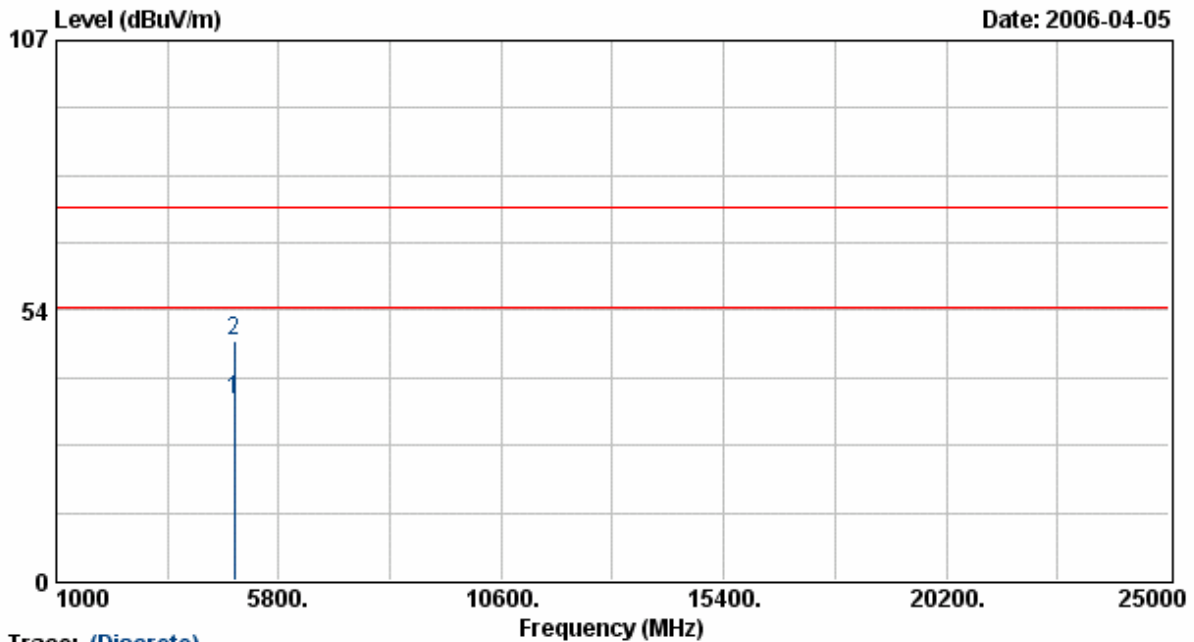


Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
333.33	52.52	-12.06	40.46	46.00	-5.54	QP	354	100
396.00	52.58	-10.23	42.35	46.00	-3.65	QP	47	100
400.00	50.90	-10.12	40.78	46.00	-5.22	QP	47	100
450.00	44.57	-8.20	36.37	46.00	-9.63	Peak	0	100
466.67	47.94	-7.66	40.28	46.00	-5.72	QP	97	100
500.00	49.33	-6.58	42.75	46.00	-3.25	QP	97	100
528.01	45.79	-5.32	40.47	46.00	-5.53	QP	59	100
600.00	42.20	-3.79	38.41	46.00	-7.59	Peak	193	100
661.82	43.50	-2.92	40.58	46.00	-5.42	QP	193	100
924.10	42.11	0.64	42.75	46.00	-3.25	QP	360	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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. 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.

EUT	: WNR834B	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 70 %
Operation Channel	: 3	Atmospheric Pressure	: 1010 mmHg
Modulation Type	: 802.11MIMO+CB		
Rate	: 270 Mbps		
Memo	: DSA-0131F-12 US 12		



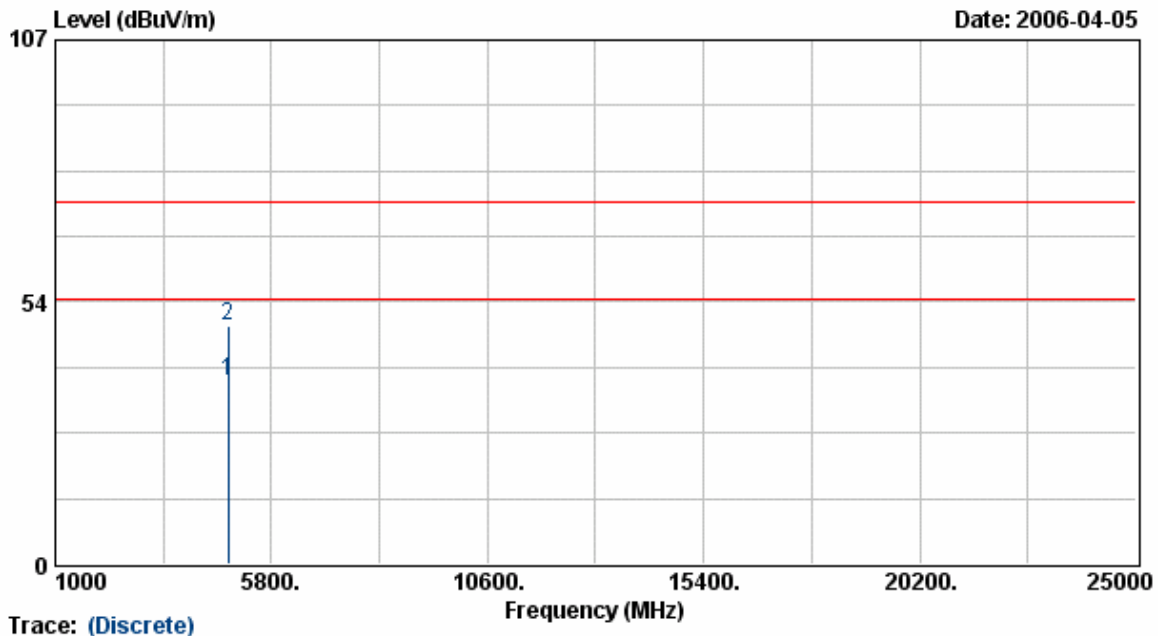
Frequency (MHz)	Meter Reading (dBUV)	Corrected Factor (dBUV/m)	Result (dBUV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4844.00	29.87	5.76	35.63	54.00	-18.37	Average	92	100
4844.00	41.87	5.76	47.63	74.00	-26.37	Peak	92	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

EUT : WNR834B
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11MIMO+CB
 Rate : 270 Mbps
 Memo : DSA-0131F-12 US 12

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1010 mmHg



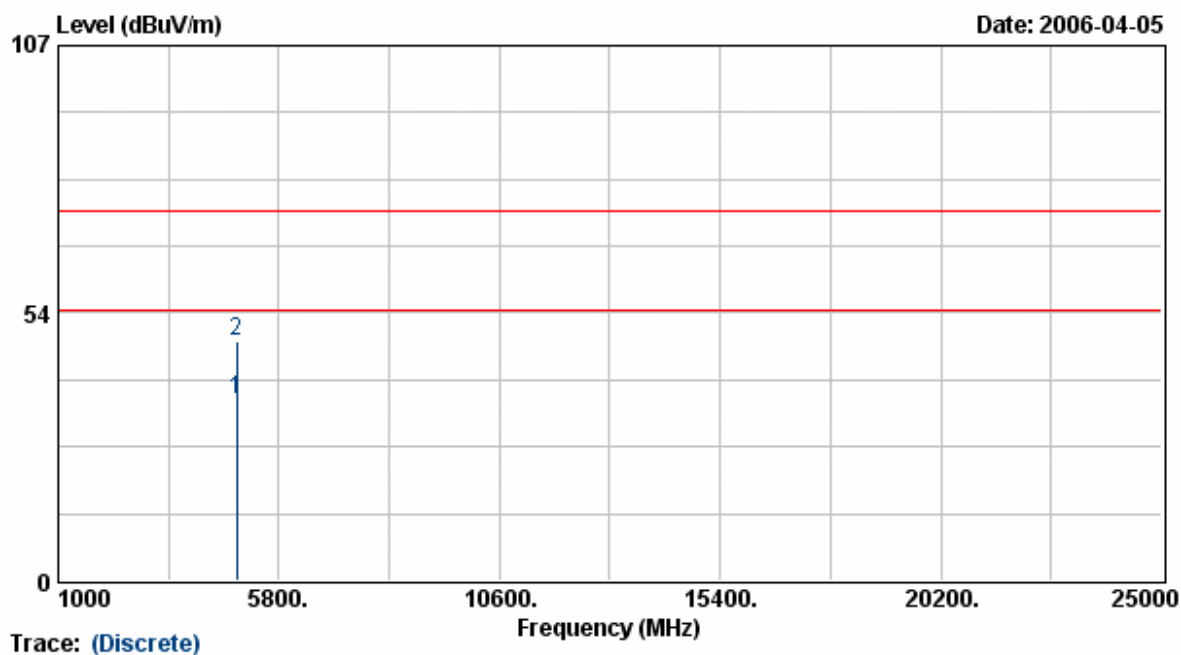
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4843.90	31.51	5.76	37.28	54.00	-16.72	Average	267	100
4843.90	42.98	5.76	48.74	74.00	-25.26	Peak	267	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

EUT : WNR834B
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11MIMO+CB
 Rate : 270 Mbps
 Memo : DSA-0131F-12 US 12

Pol/Phase : HORIZONTAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1010 mmHg

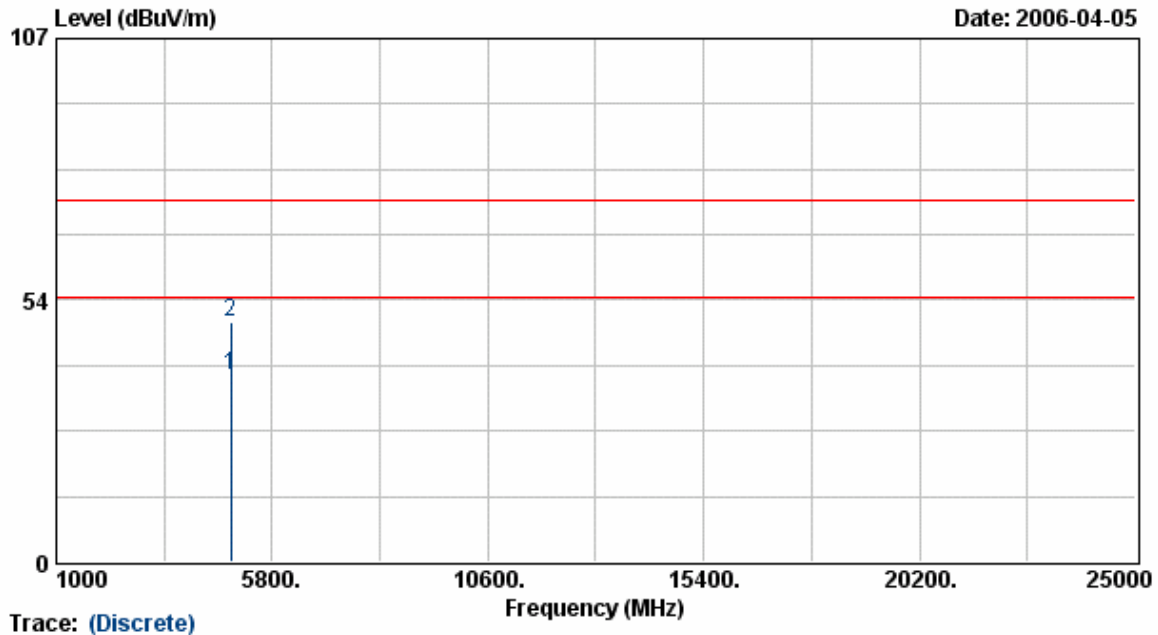


Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4874.00	30.26	5.85	36.10	54.00	-17.90	Average	92	100
4874.00	41.96	5.85	47.80	74.00	-26.20	Peak	92	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

EUT	: WNR834B	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 70 %
Operation Channel	: 6	Atmospheric Pressure	: 1010 mmHg
Modulation Type	: 802.11MIMO+CB		
Rate	: 270 Mbps		
Memo	: DSA-0131F-12 US 12		

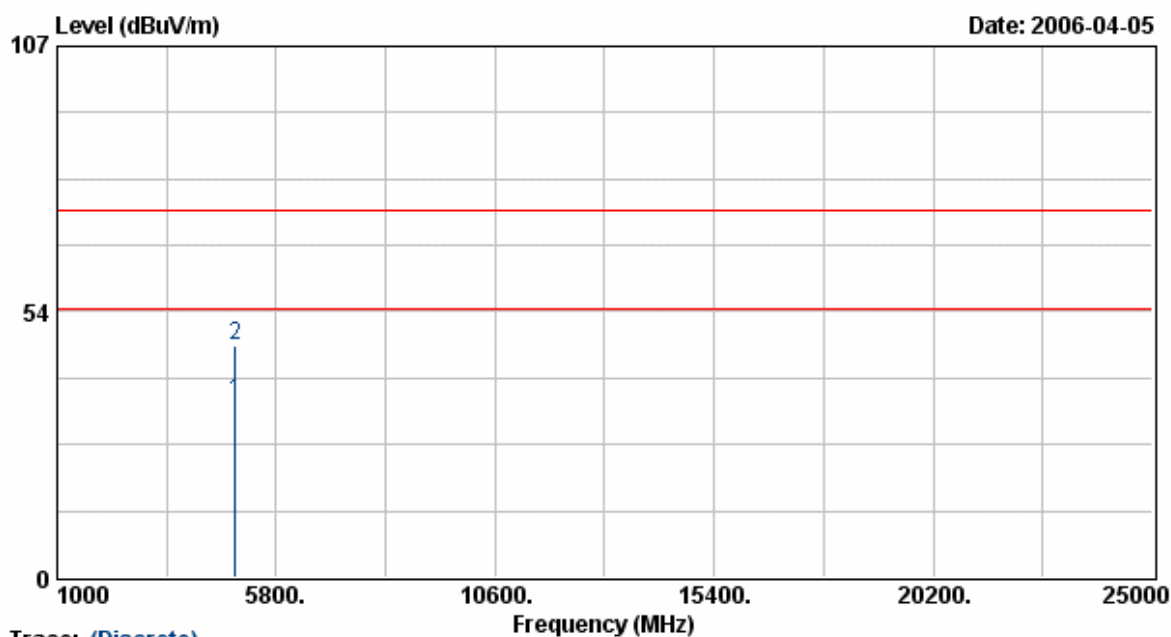


Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4873.88	32.27	5.85	38.12	54.00	-15.88	Average	267	100
4873.88	43.20	5.85	49.05	74.00	-24.95	Peak	267	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

EUT	: WNR834B	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 70 %
Operation Channel	: 9	Atmospheric Pressure	: 1010 mmHg
Modulation Type	: 802.11MIMO+CB		
Rate	: 270 Mbps		
Memo	: DSA-0131F-12 US 12		



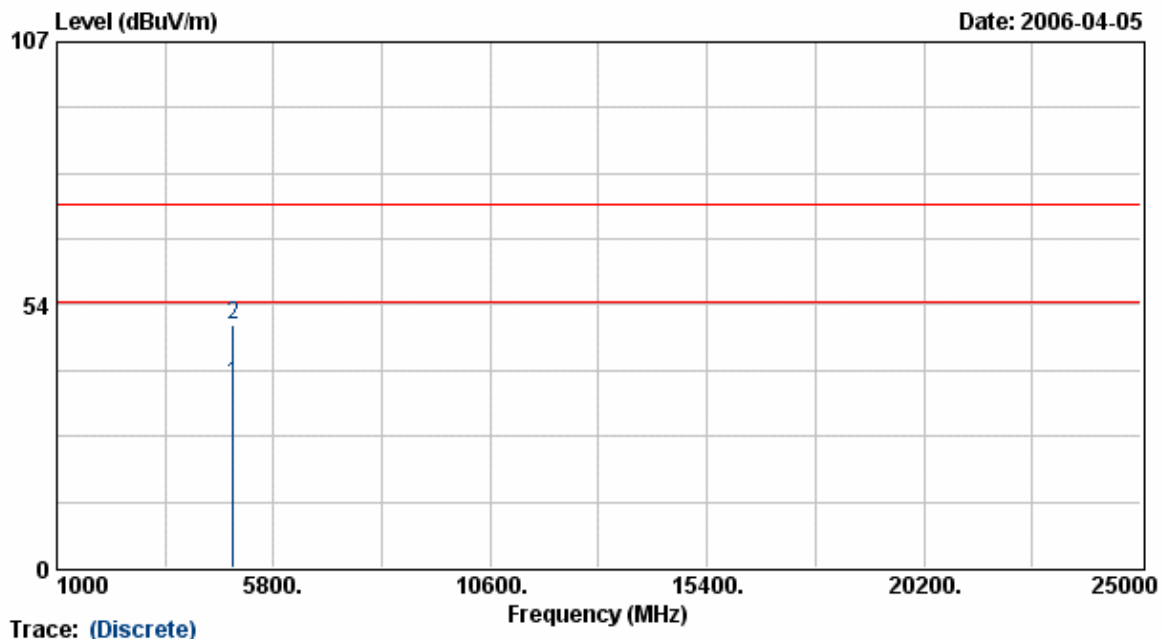
Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4904.00	29.47	5.93	35.40	54.00	-18.60	Average	92	100
4904.00	40.93	5.93	46.86	74.00	-27.14	Peak	92	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

EUT : WNR834B
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 9
 Modulation Type : 802.11MIMO+CB
 Rate : 270 Mbps
 Memo : DSA-0131F-12 US 12

Pol/Phase : VERTICAL
 Temperature : 25 °C
 Humidity : 70 %
 Atmospheric Pressure: 1010 mmHg



Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
4904.00	31.47	5.93	37.40	54.00	-16.60	Average	267	100
4904.00	43.47	5.93	49.40	74.00	-24.60	Peak	267	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected 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.

5.6 Test Photographs

Front View



Rear View



6. 6dB Bandwidth Measurement Data

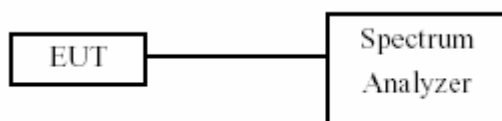
6.1 Test Limit

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	Type	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: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	12.0
06	2437	12.0
11	2462	12.0

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	17.3
06	2437	17.3
11	2462	17.5

(3) Modulation Standard: IEEE 802.11MIMO, EWC (auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
01	2412	16.6	16.3
06	2437	17.0	17.2
11	2462	15.9	16.9

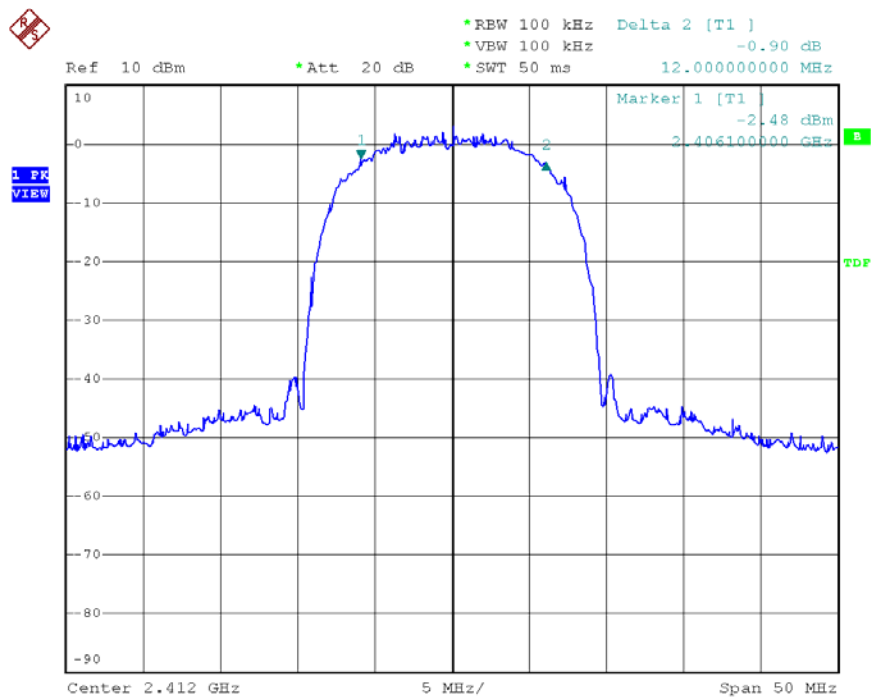
(4) Modulation Standard: IEEE 802.11MIMO, EWC (auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
03	2422	35.0	35.0
06	2437	35.0	35.4
09	2452	35.2	35.0

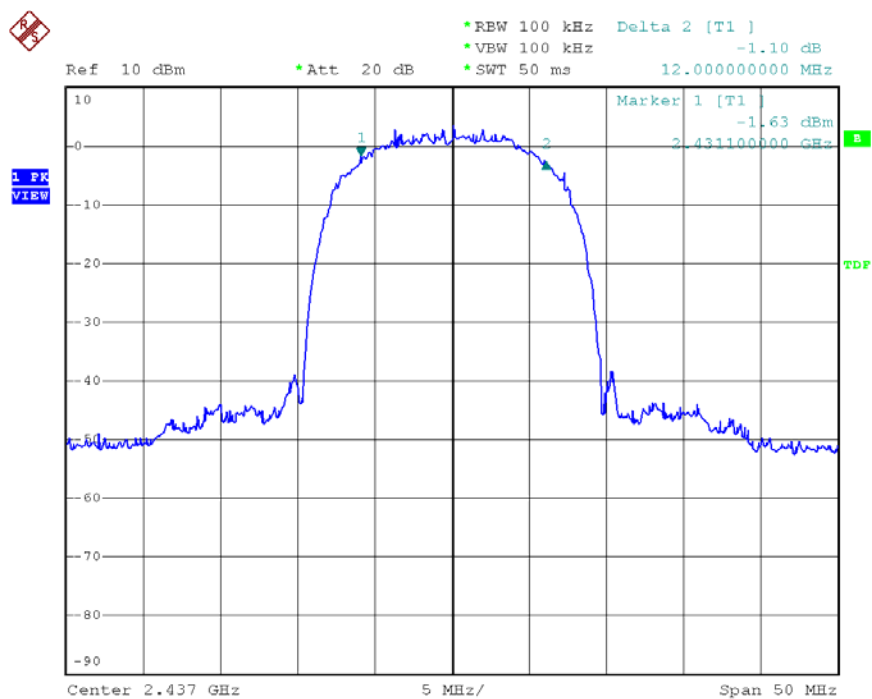
Modulation Standard: 802.11b (11Mbps)

Channel: 01



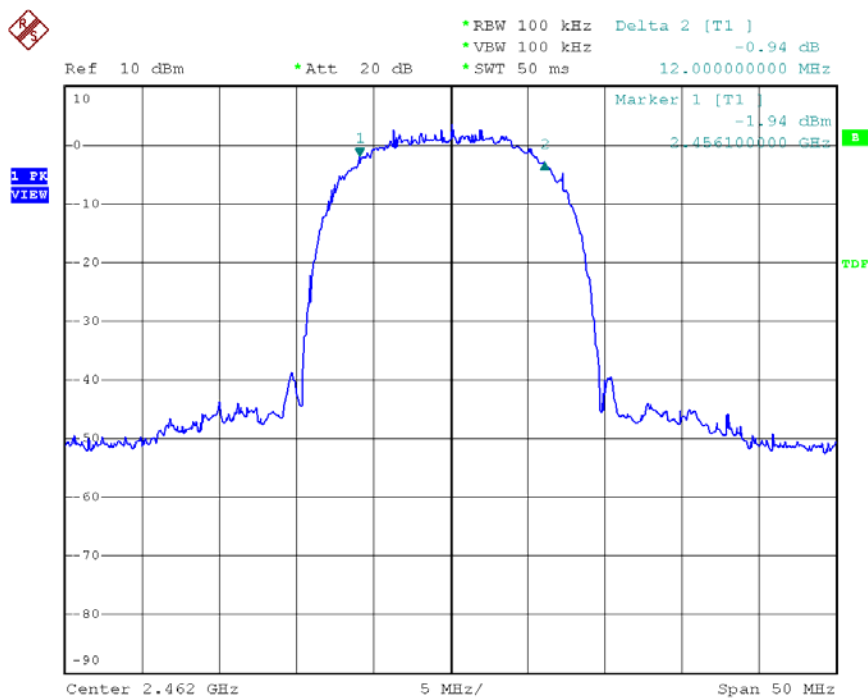
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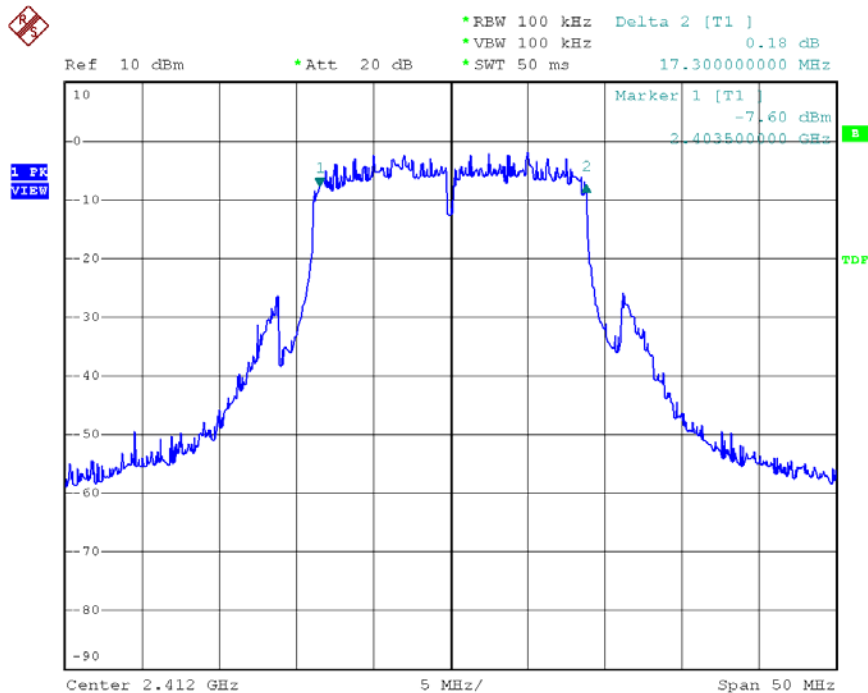


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Channel:11

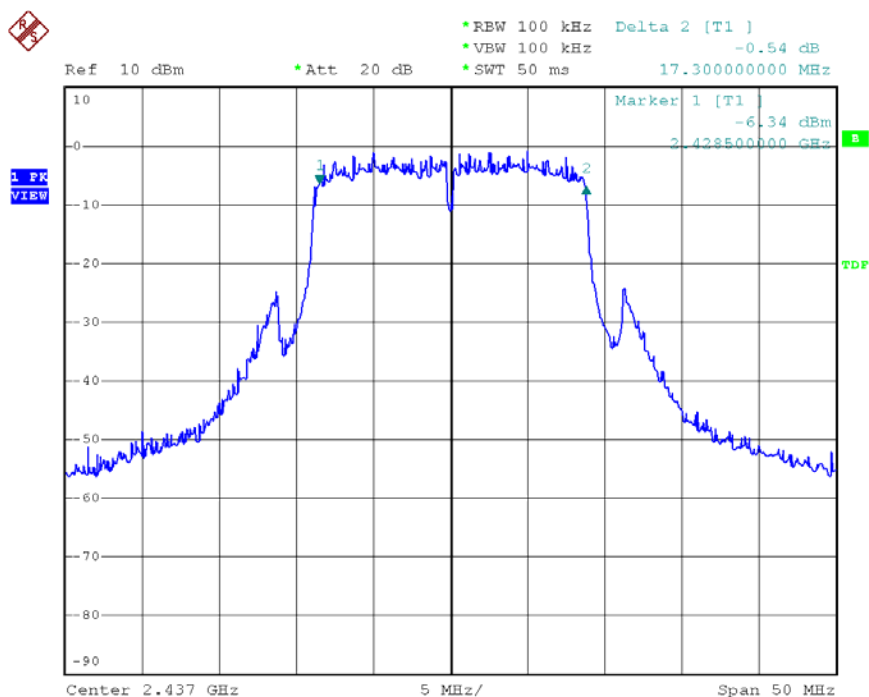


Date: 8.APR.2006 11:08:03

Modulation Standard:802.11g (6Mbps)
Channel:01

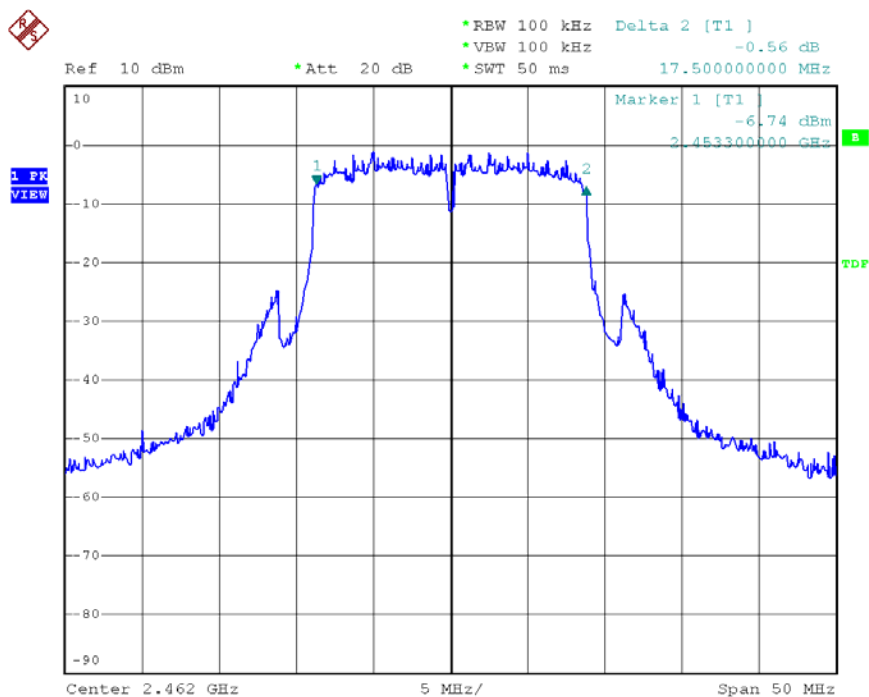
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Channel:06



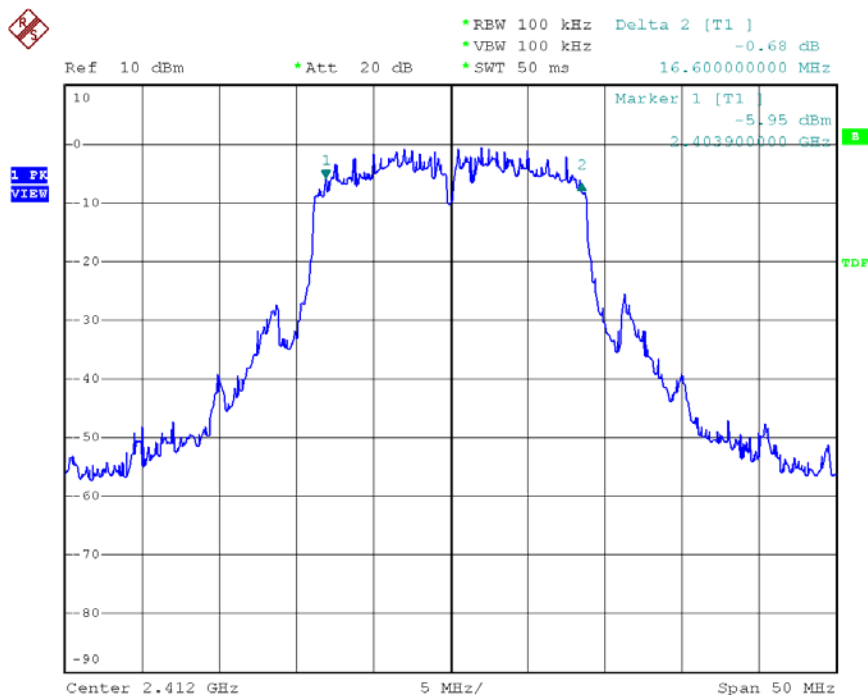
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Channel:11



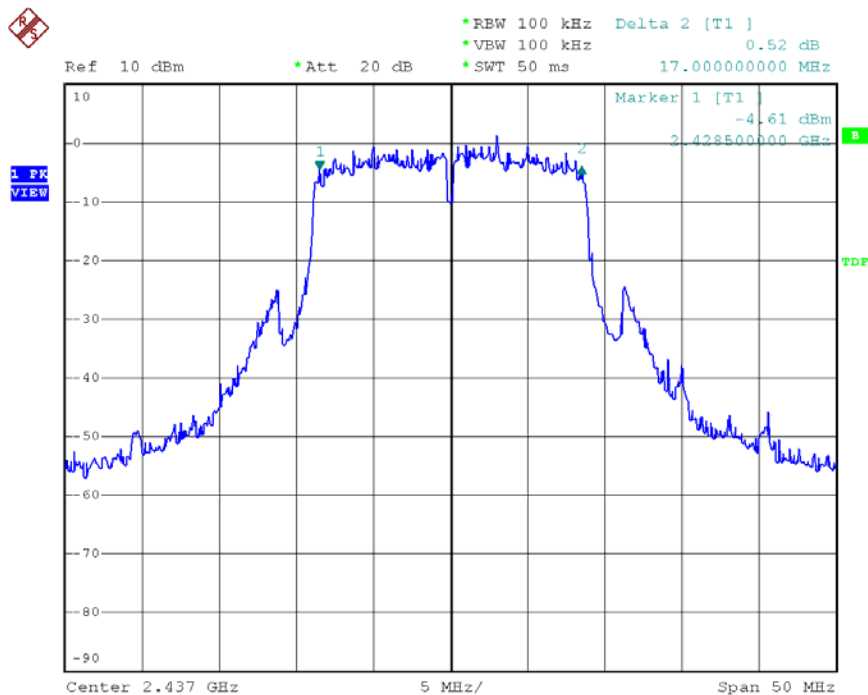
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Modulation Standard:802.11MIMO, EWC (auto 130Mbps) – TX0
Channel:01



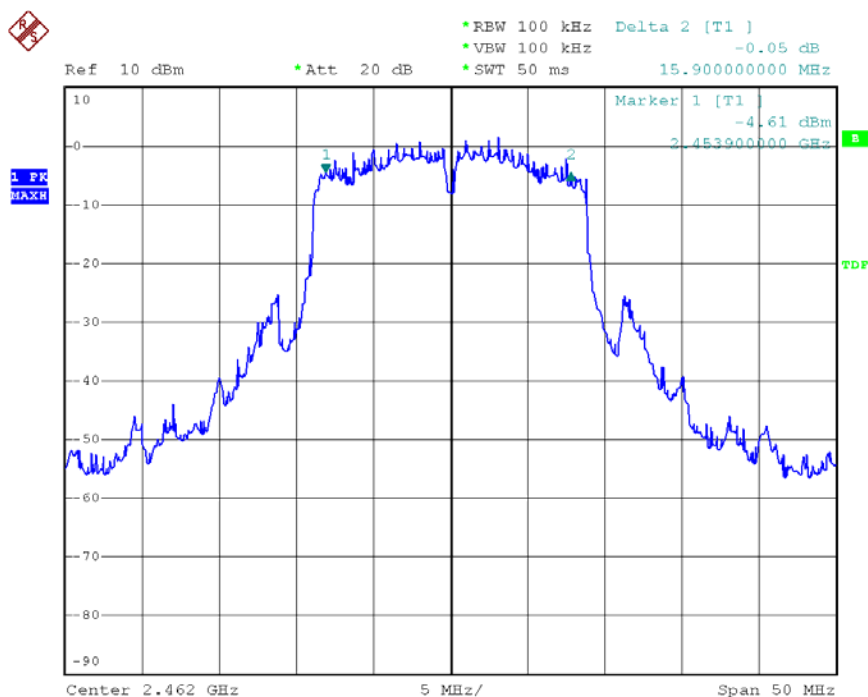
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Channel:06



Date: 13.APR.2006 08:47:33

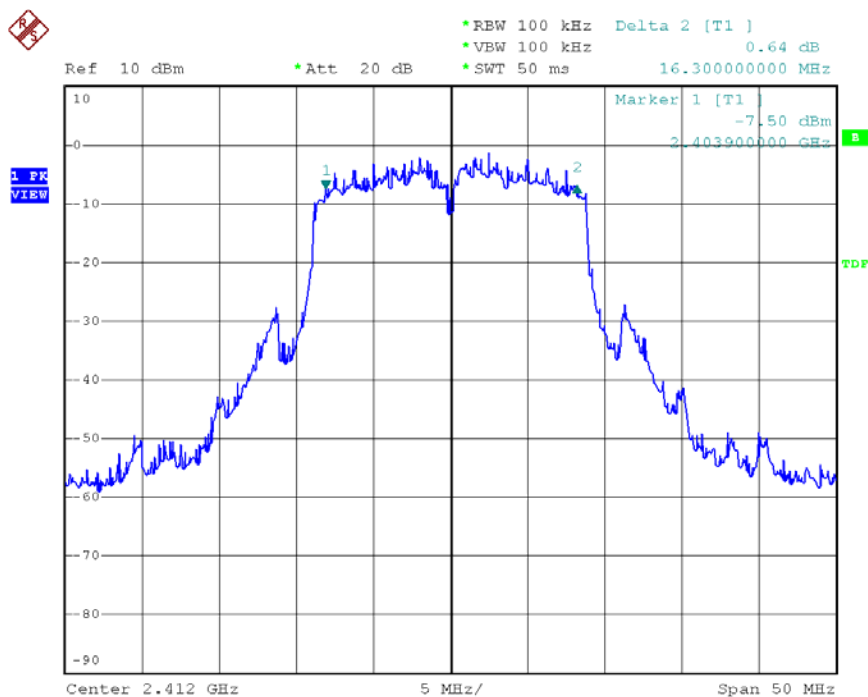
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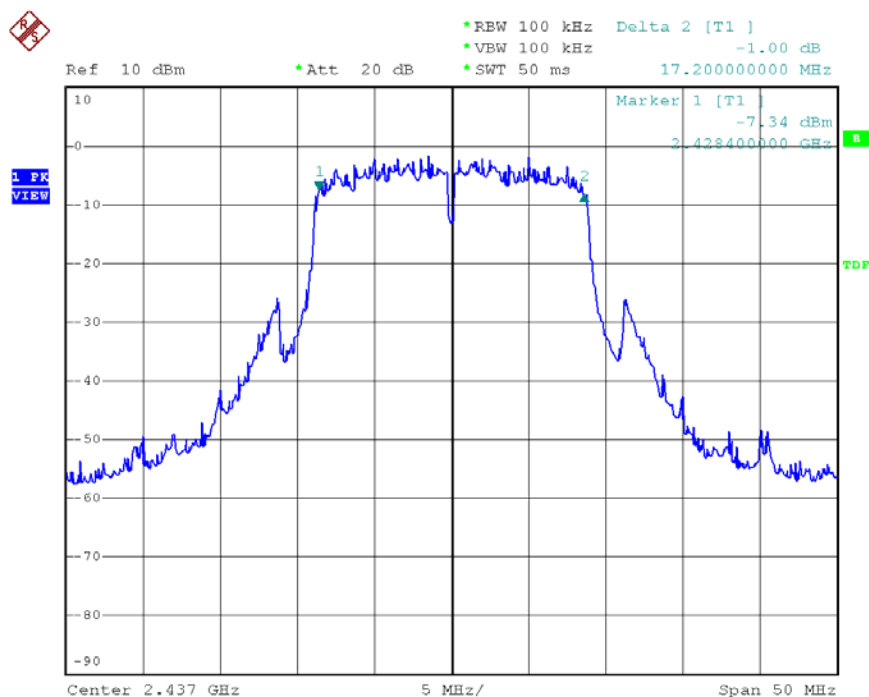
Modulation Standard:802.11MIMO, EWC (auto 130Mbps) – TX1

Channel:01



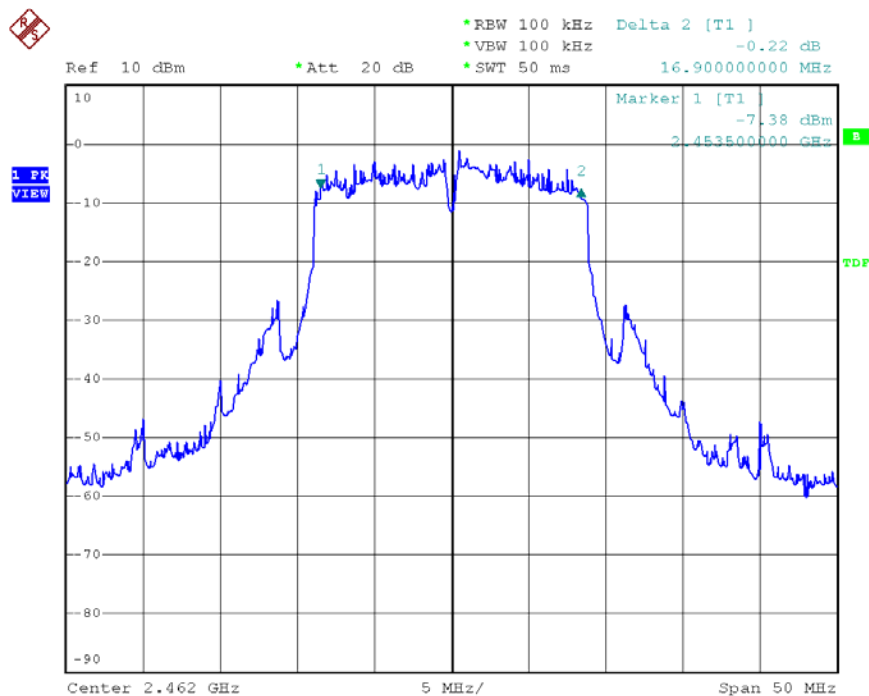
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Channel:06



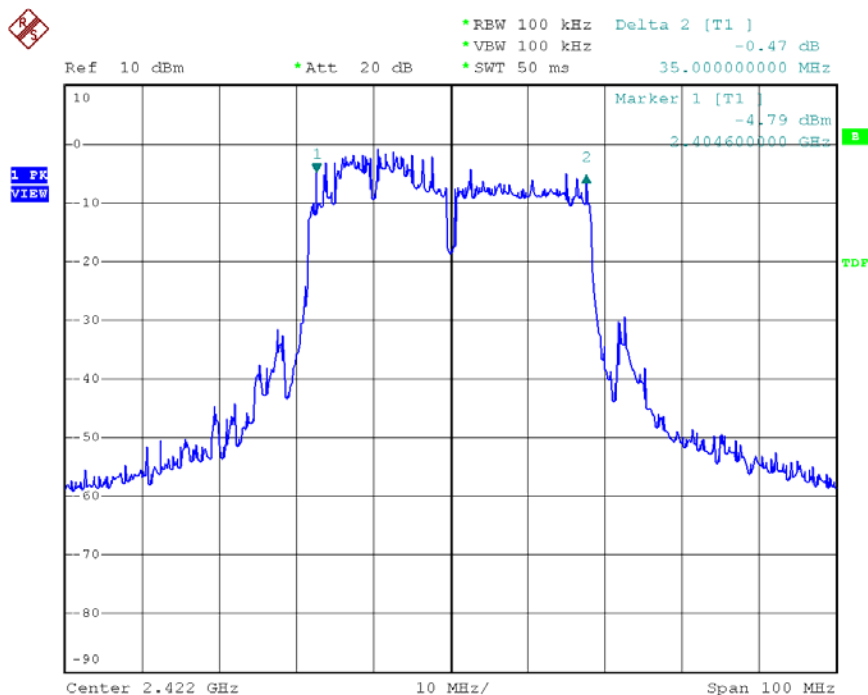
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Channel:11



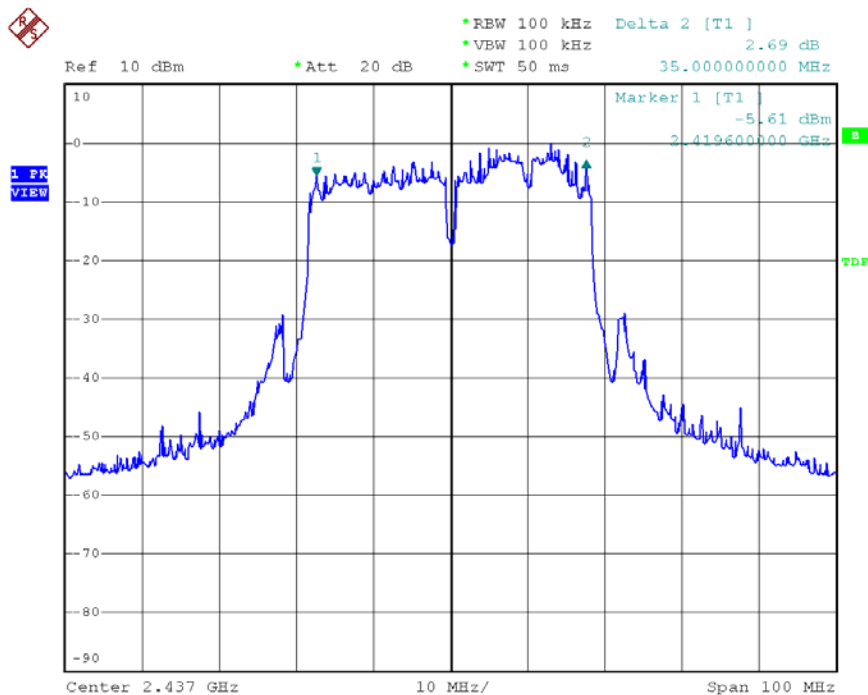
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Modulation Standard:802.11MIMO, EWC (auto 270Mbps) – TX0
Channel:03



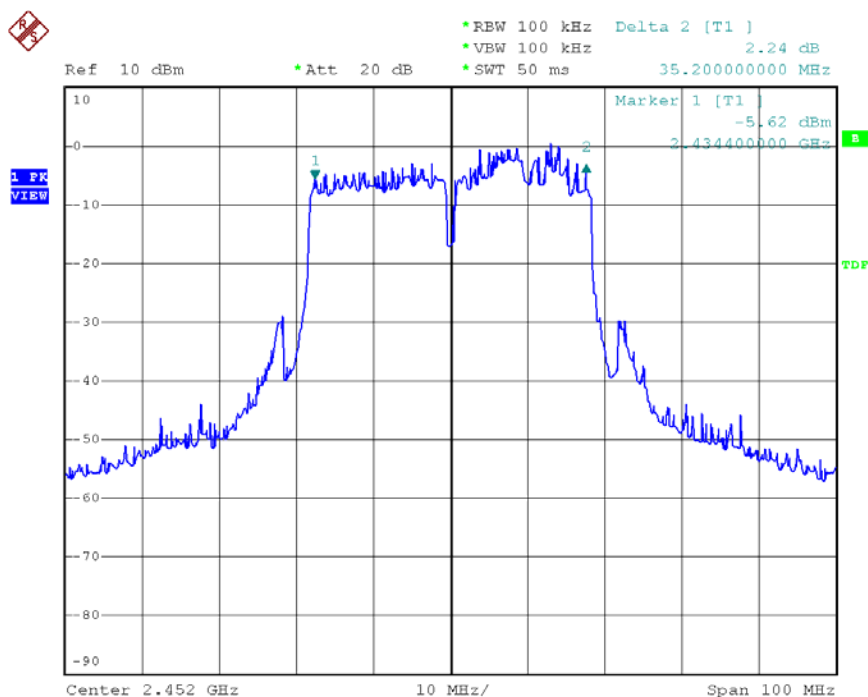
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Channel:06



Date: 13.APR.2006 09:09:43

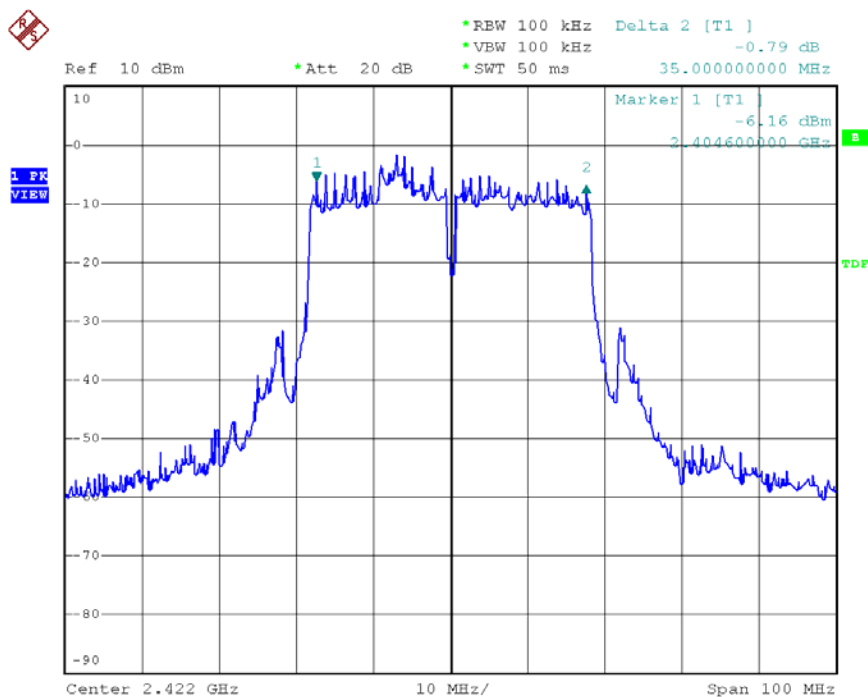
Channel:09



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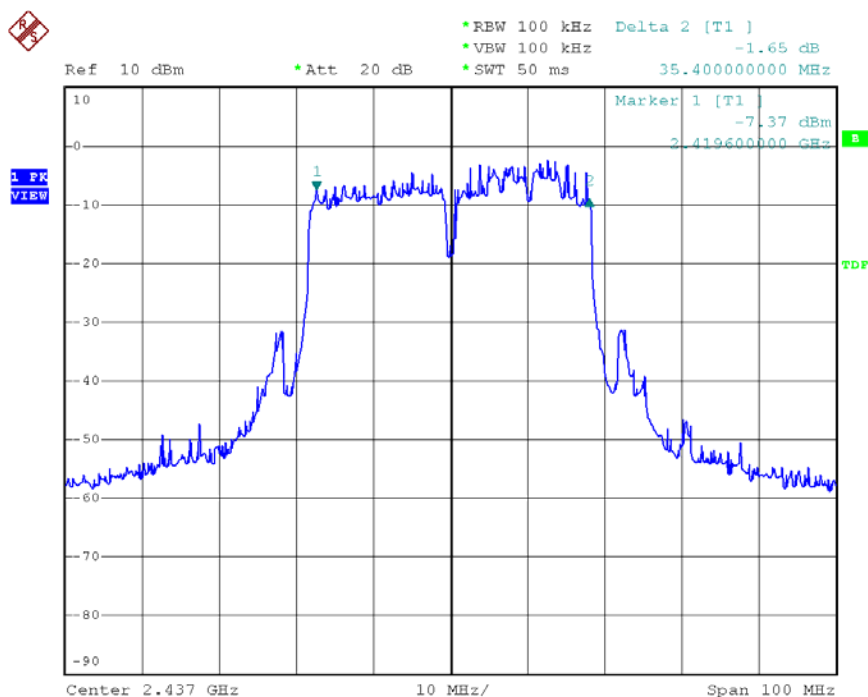
Modulation Standard:802.11MIMO, EWC (auto 270Mbps) – TX1

Channel:03



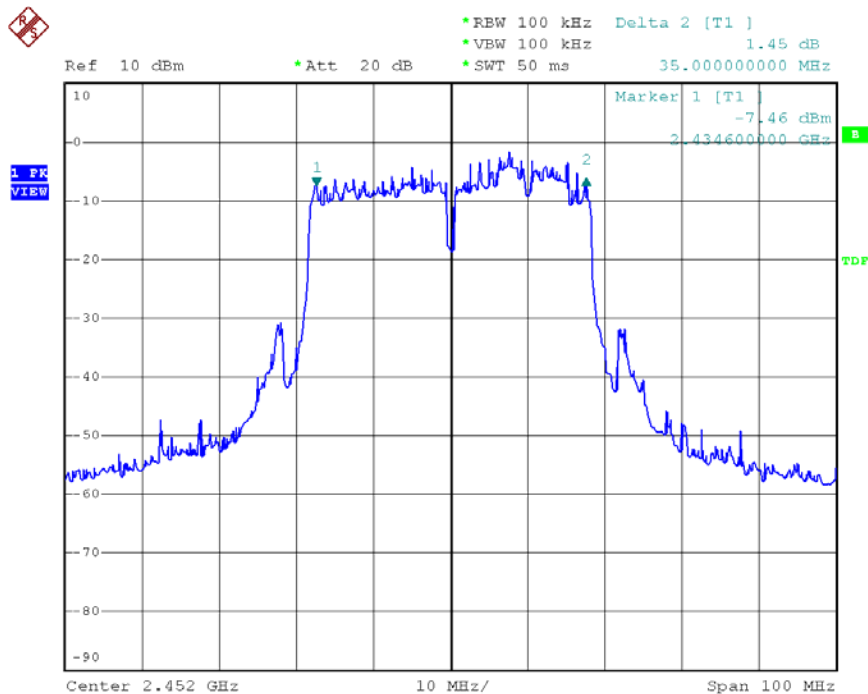
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Channel:06



Date: 13.APR.2006 09:08:39

Channel:09



Date: 13.APR.2006 09:11:04

7. Maximum Peak Output Power

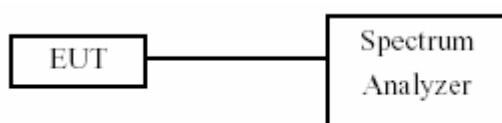
7.1 Test Limit

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	Type	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: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	18.62	72.8
06	2437	19.53	89.7
11	2462	19.46	88.3

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	18.77	75.3
06	2437	19.60	91.2
11	2462	19.18	82.8

(3) Modulation Standard: IEEE 802.11MIMO, EWC (auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
01	2412	19.57	17.85	21.80	151.4
06	2437	20.38	18.61	22.59	181.6
11	2462	20.54	18.01	22.47	176.6

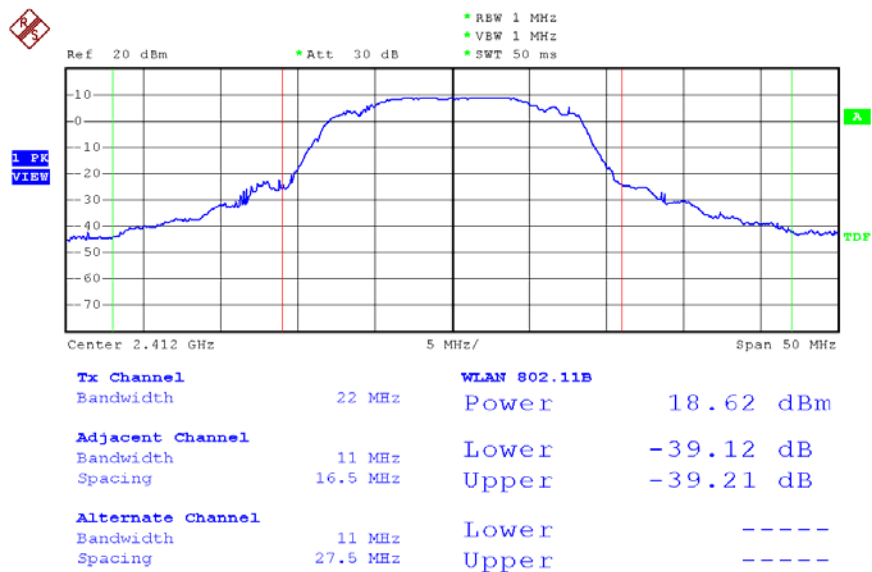
(4) Modulation Standard: IEEE 802.11MIMO, EWC (auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
03	2422	18.79	16.56	20.83	121.1
06	2437	20.58	18.73	22.76	188.8
09	2452	20.65	18.68	22.79	190.1

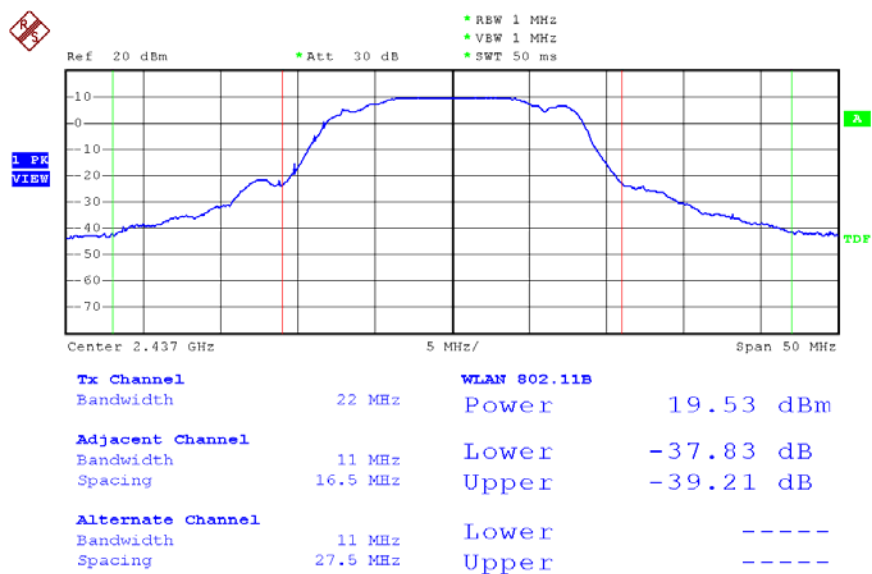
Modulation Standard: 802.11b (11Mbps)

Channel: 01



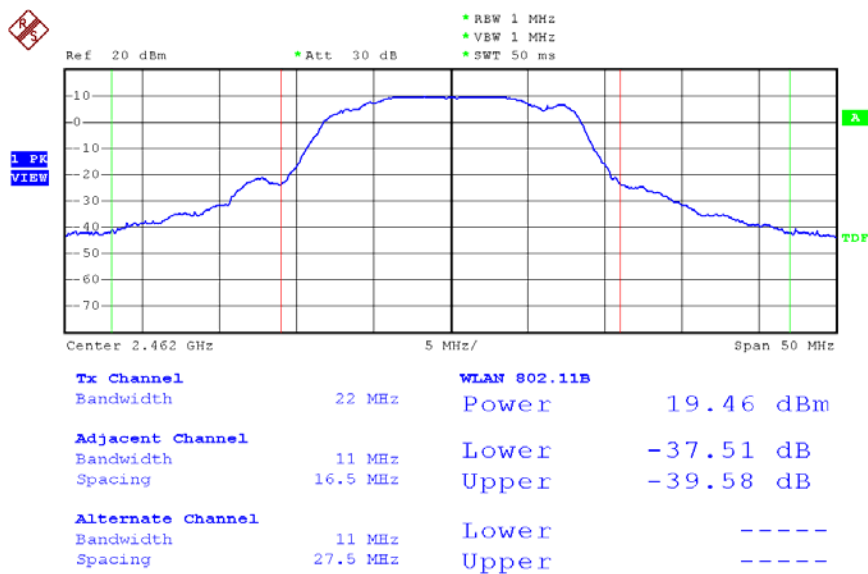
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Channel:06

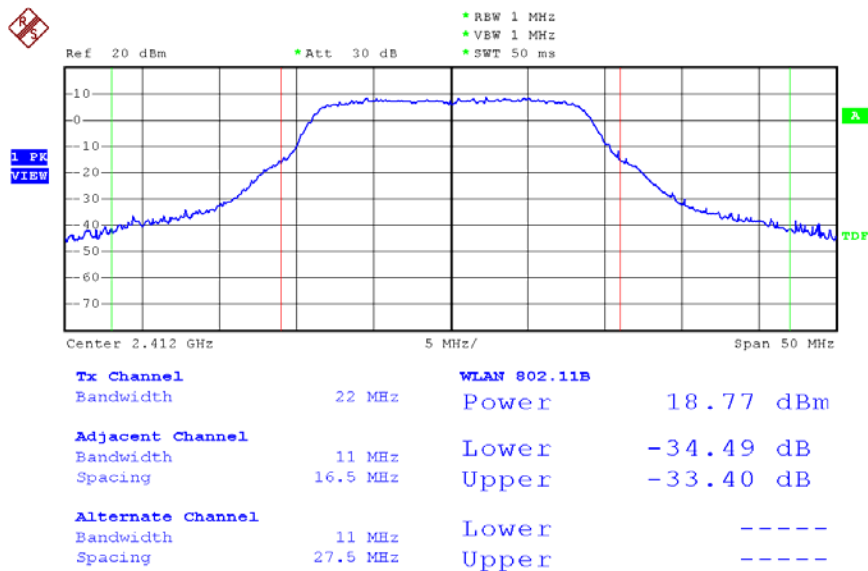


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Channel: 11

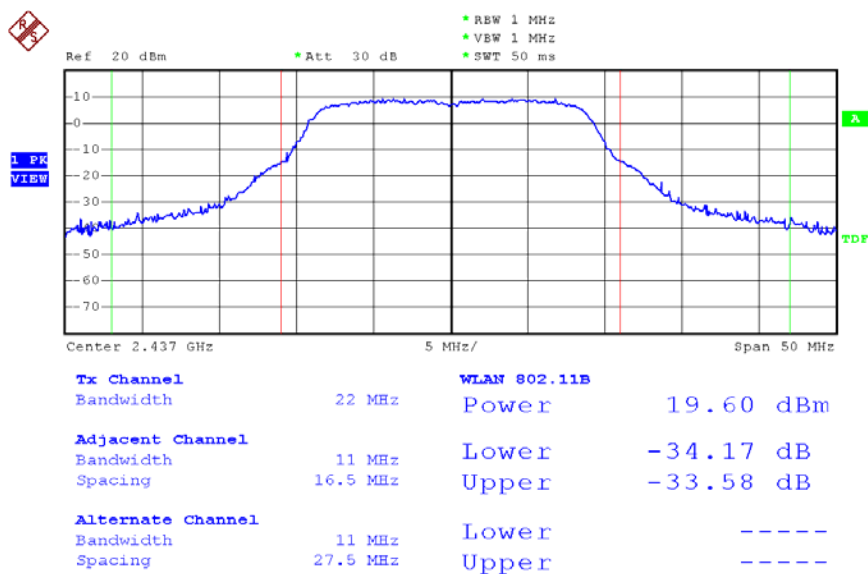


Date: 8.APR.2006 15:05:10

Modulation Standard: 802.11g (6Mbps)
Channel: 01

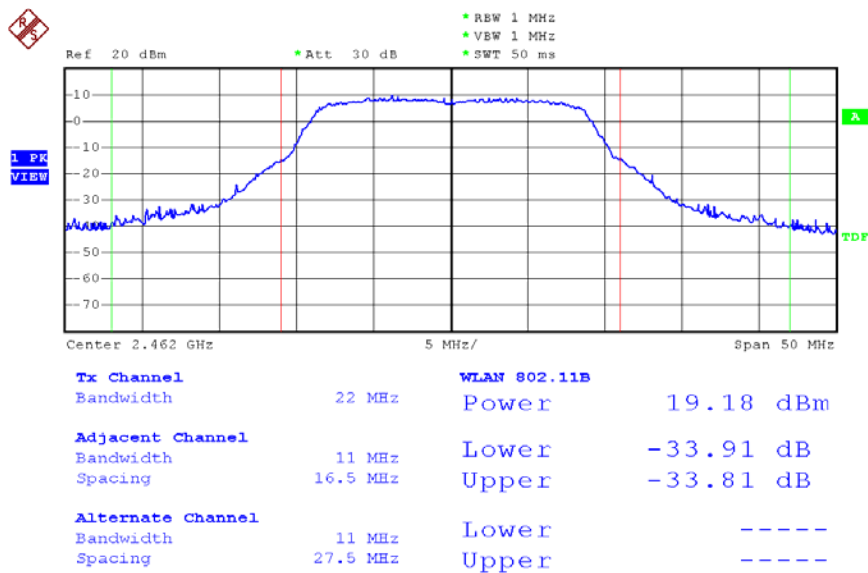
Date: 5.APR.2006 09:50:24

Channel: 06



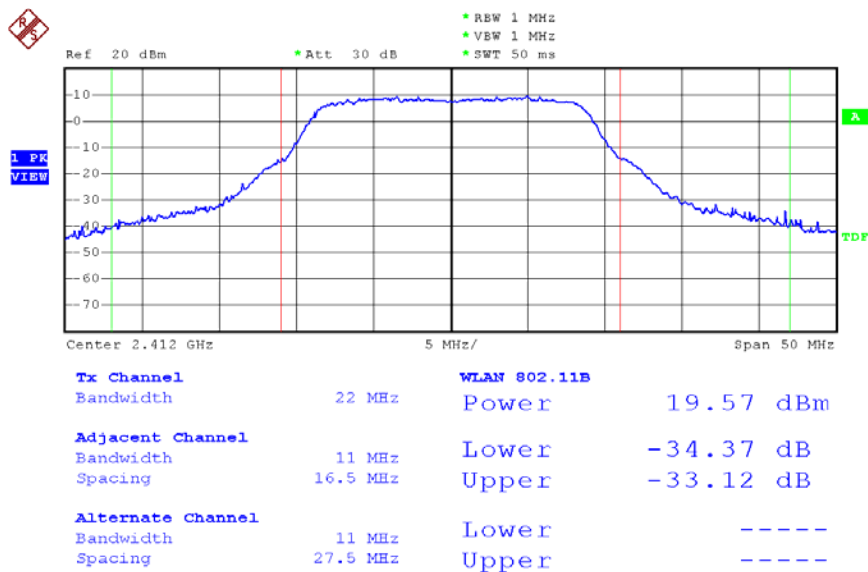
Date: 5.APR.2006 09:52:34

Channel:11



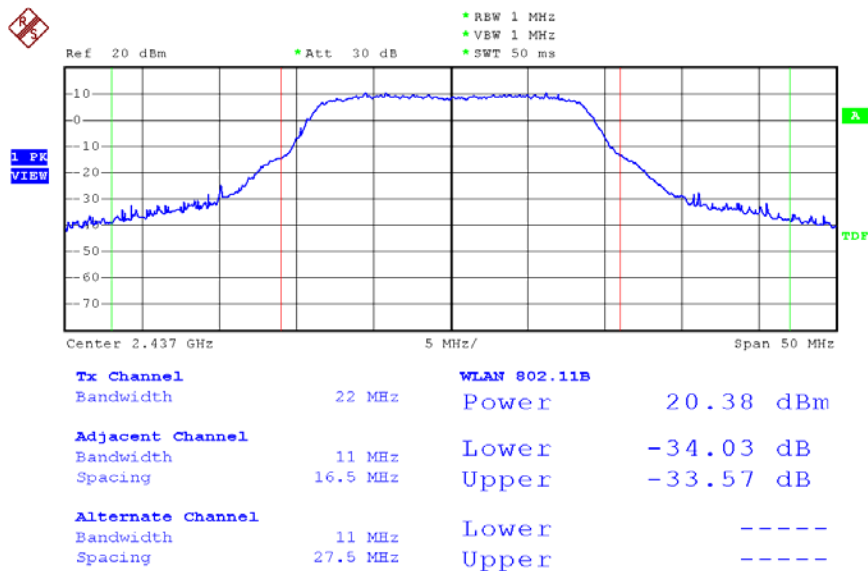
Date: 5.APR.2006 10:01:23

Modulation Standard:802.11MIMO, EWC (auto 130Mbps) - TX0
Channel:01



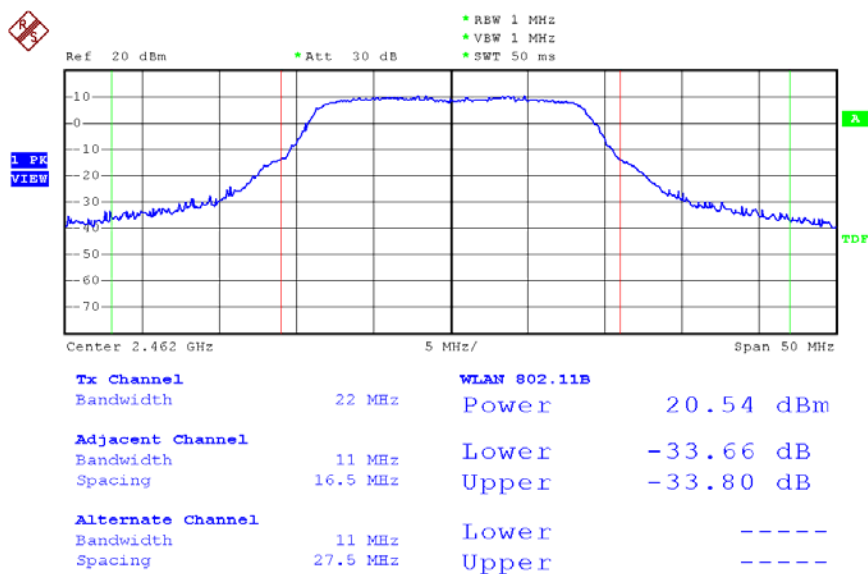
Date: 12.APR.2006 16:12:59

Channel:06

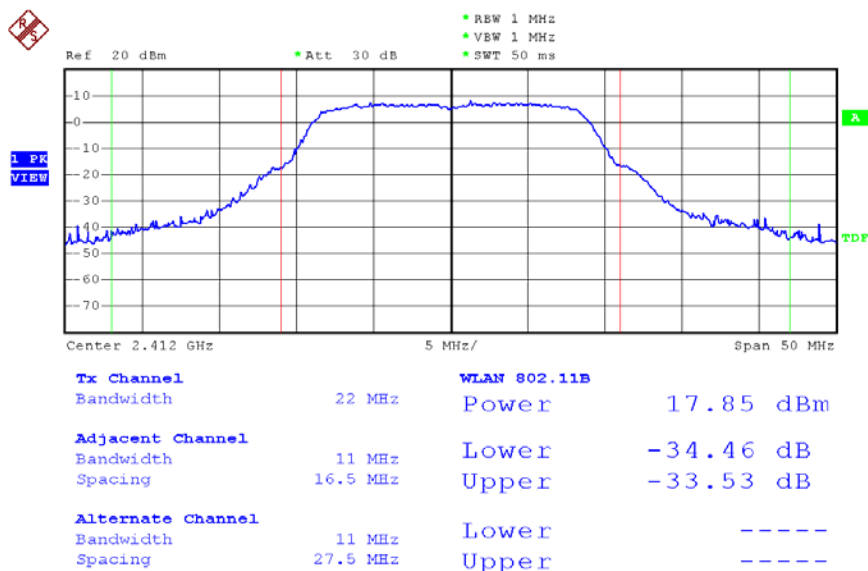


Date: 12.APR.2006 16:27:47

Channel:11

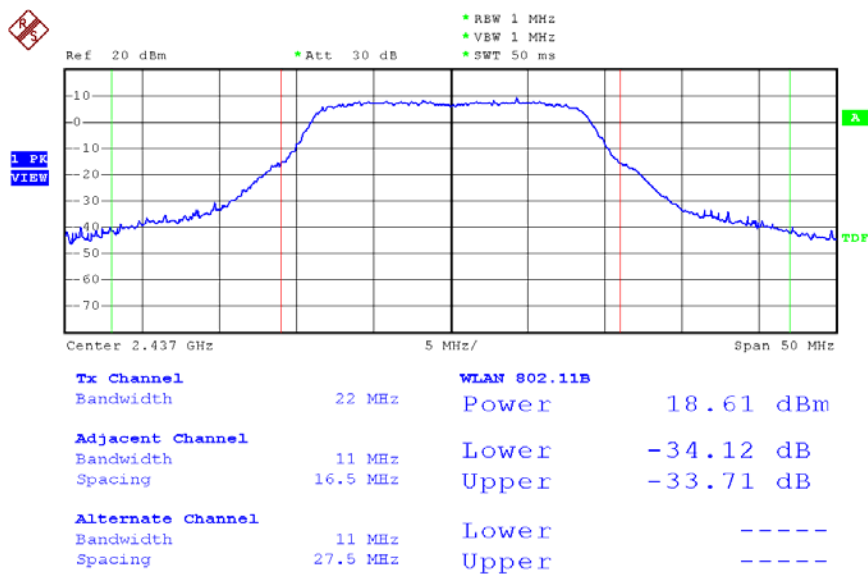


Date: 12.APR.2006 16:41:58

Modulation Standard:802.11MIMO, EWC (auto 130Mbps) - TX1
Channel:01

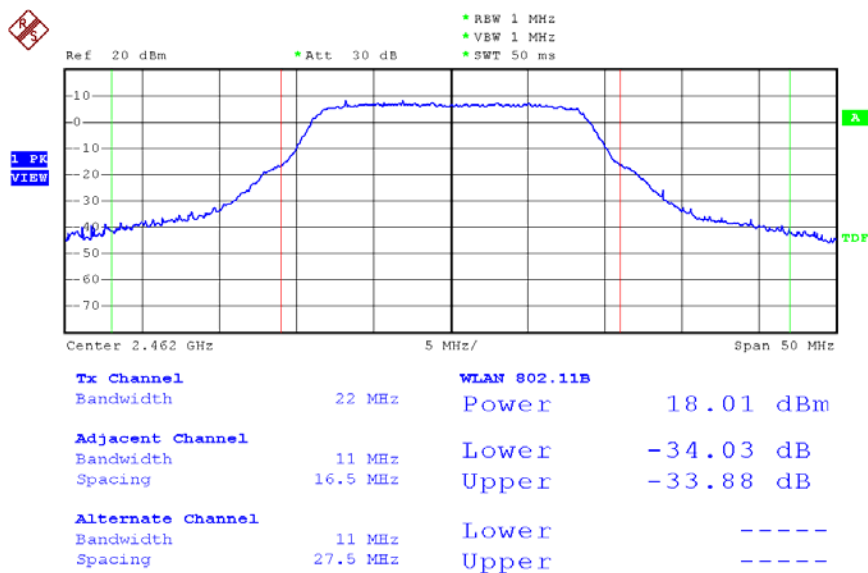
Date: 12.APR.2006 16:11:45

Channel:06



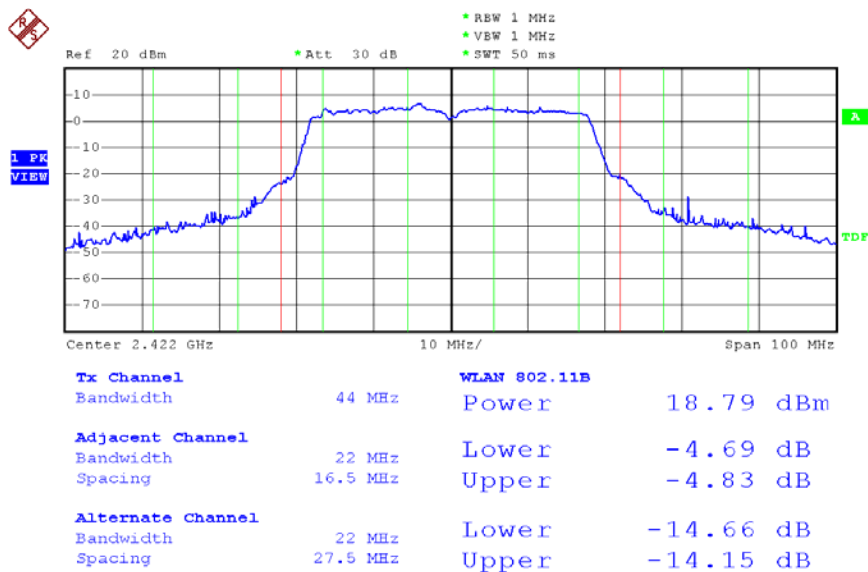
Date: 12.APR.2006 16:26:49

Channel:11



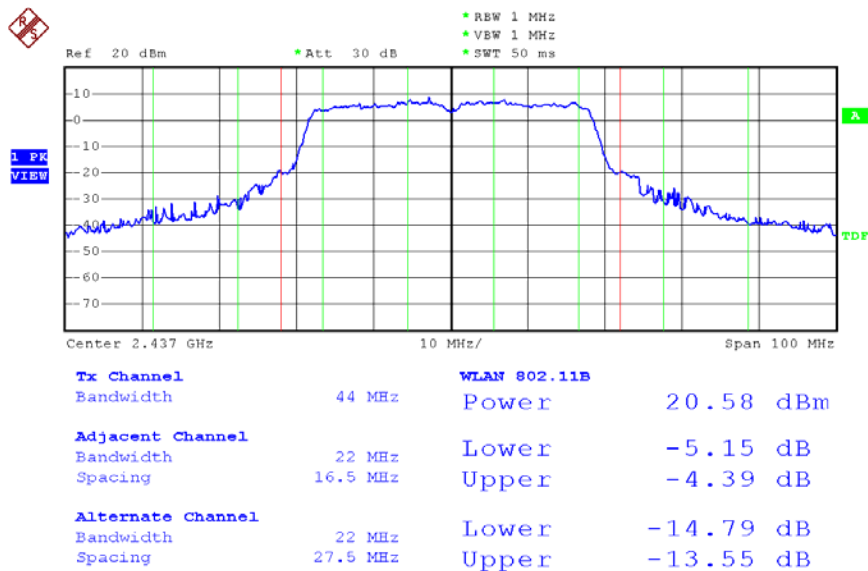
Date: 12.APR.2006 16:34:03

Modulation Standard: 802.11MIMO, EWC (auto 270Mbps) - TX0
Channel: 03



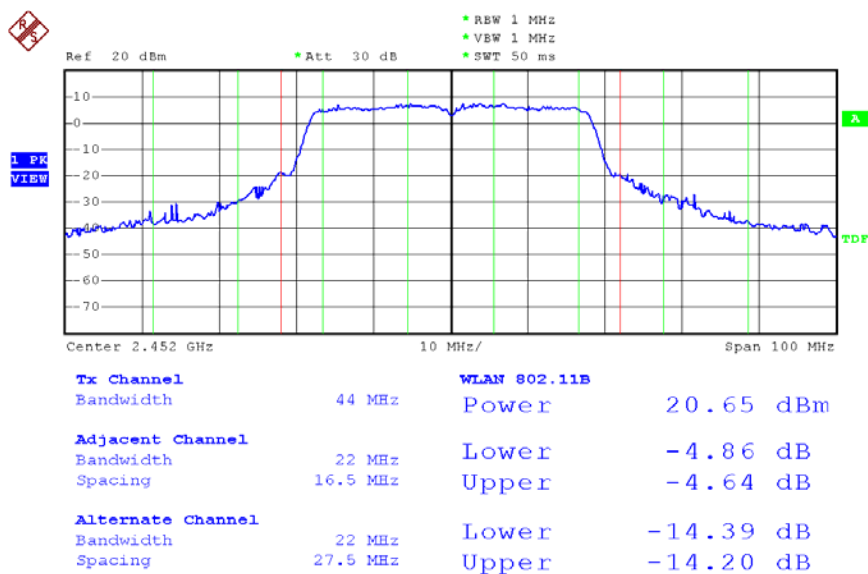
Date: 12.APR.2006 17:14:22

Channel: 06



Date: 12.APR.2006 17:18:42

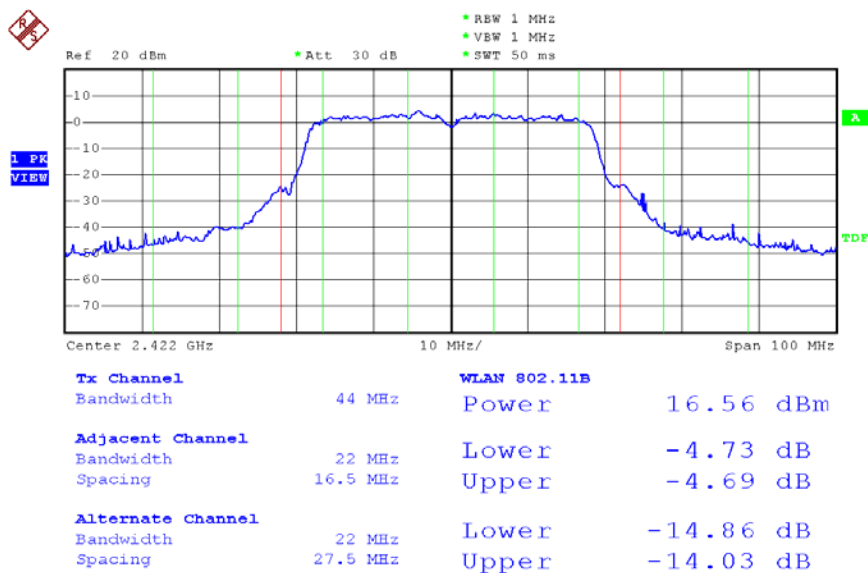
Channel:09



Date: 12.APR.2006 17:21:07

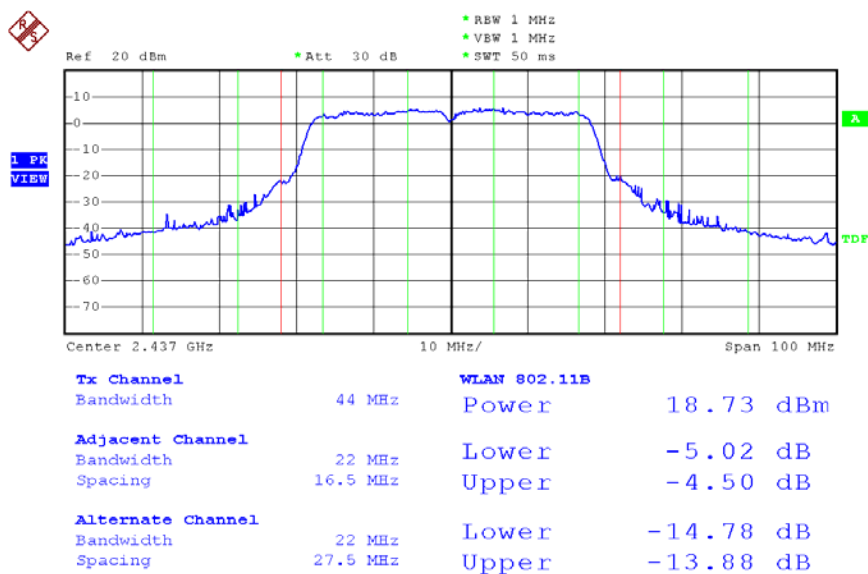
Modulation Standard:802.11MIMO, EWC (auto 270Mbps) - TX1

Channel:03



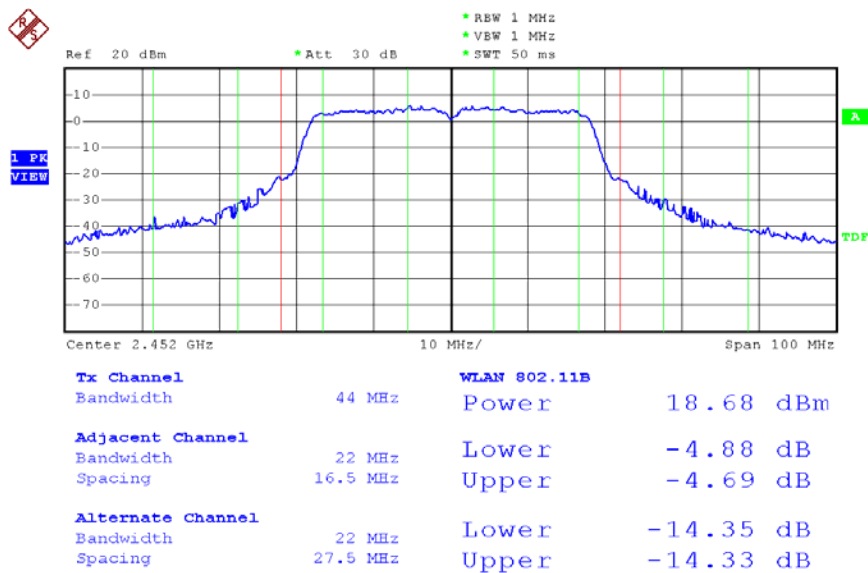
Date: 12.APR.2006 17:13:13

Channel:06



Date: 12.APR.2006 17:17:44

Channel:09



Date: 12.APR.2006 17:19:57

8. Band Edges Measurement

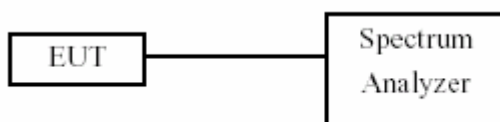
8.1 Test Limit

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	Type	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: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.4	-44.73
11	2462	2488.3	-49.58

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.6	-32.88
11	2462	2483.9	-52.28

(3) Modulation Standard: IEEE 802.11MIMO, EWC (auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2400.0	-26.18
11	2462	2483.9	-49.11

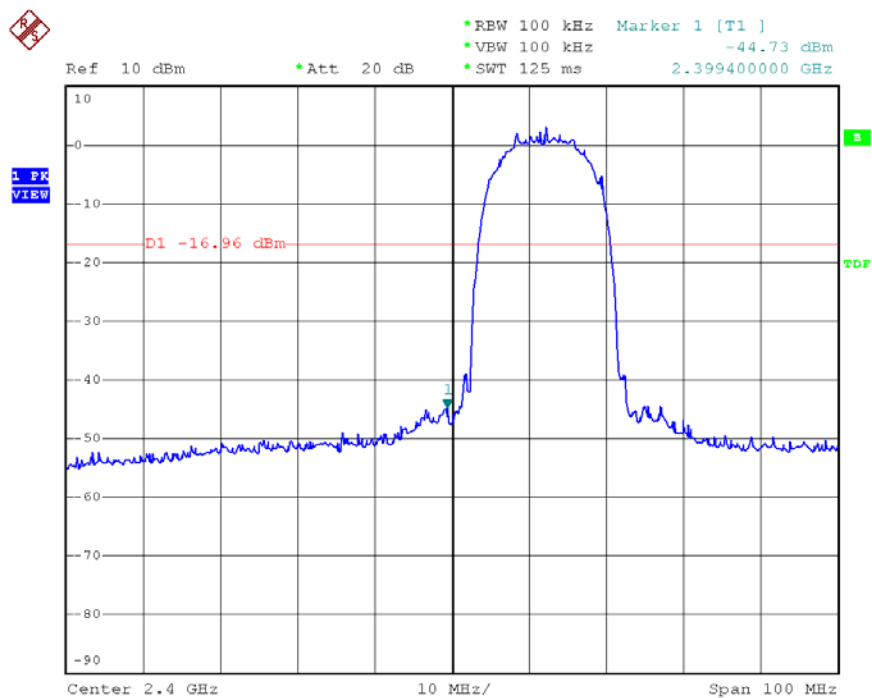
(4) Modulation Standard: IEEE 802.11MIMO, EWC (auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

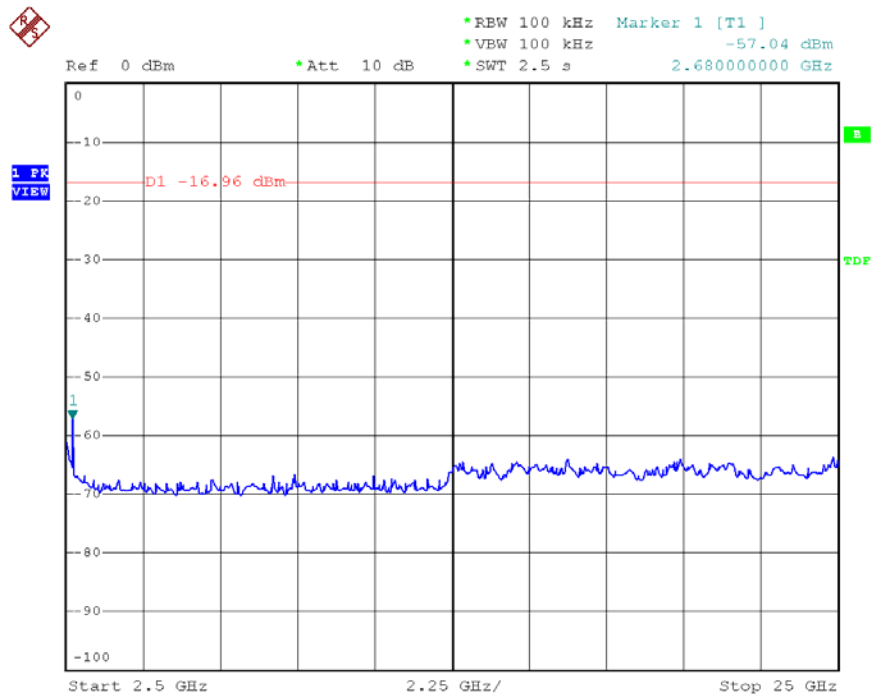
Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
03	2422	2399.4	-31.77
09	2452	2489.5	-45.14

Modulation Standard: 802.11b (11Mbps)

Channel: 01

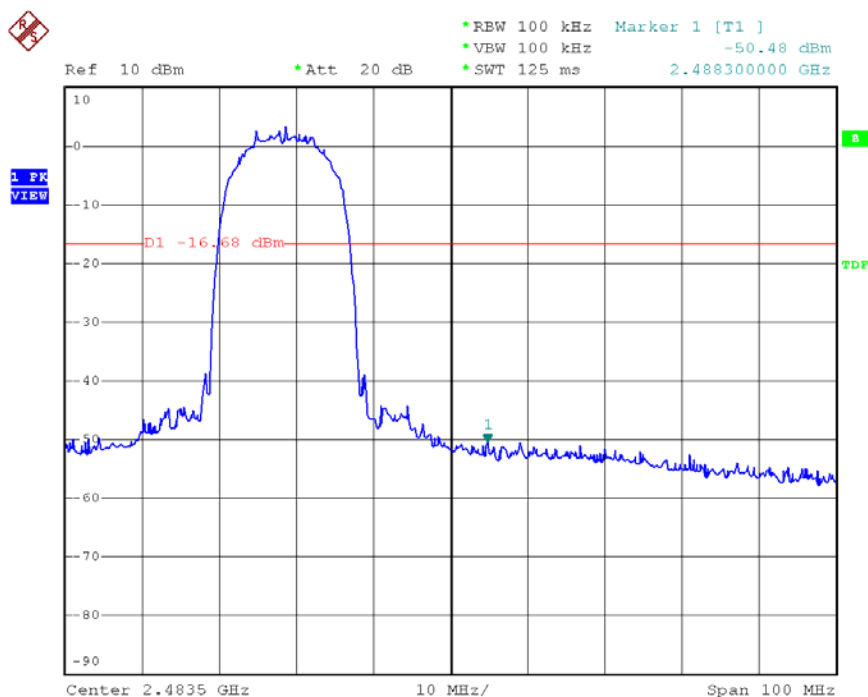


Date: 8.APR.2006 10:48:46

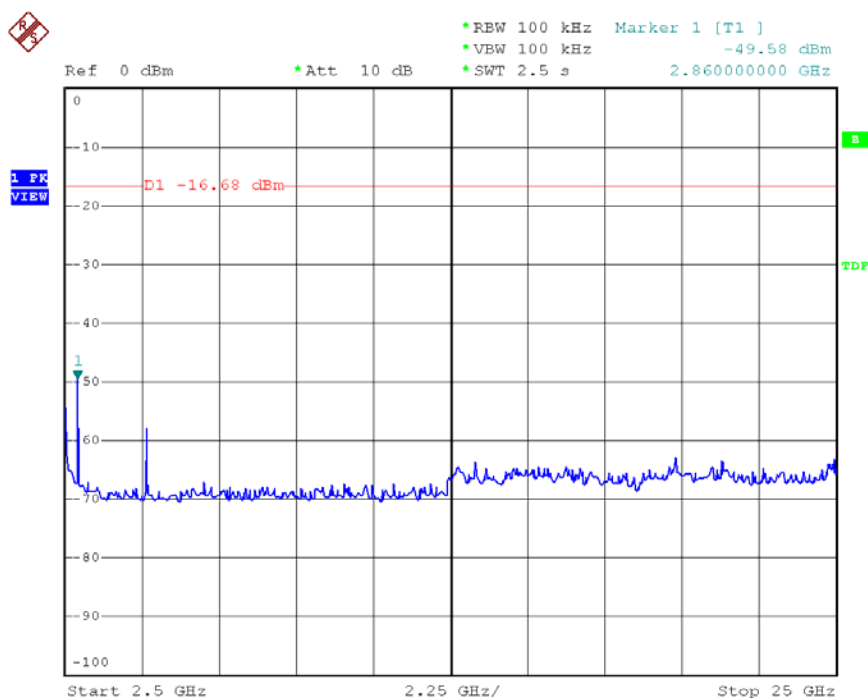


Date: 8.APR.2006 10:49:31

Channel: 11



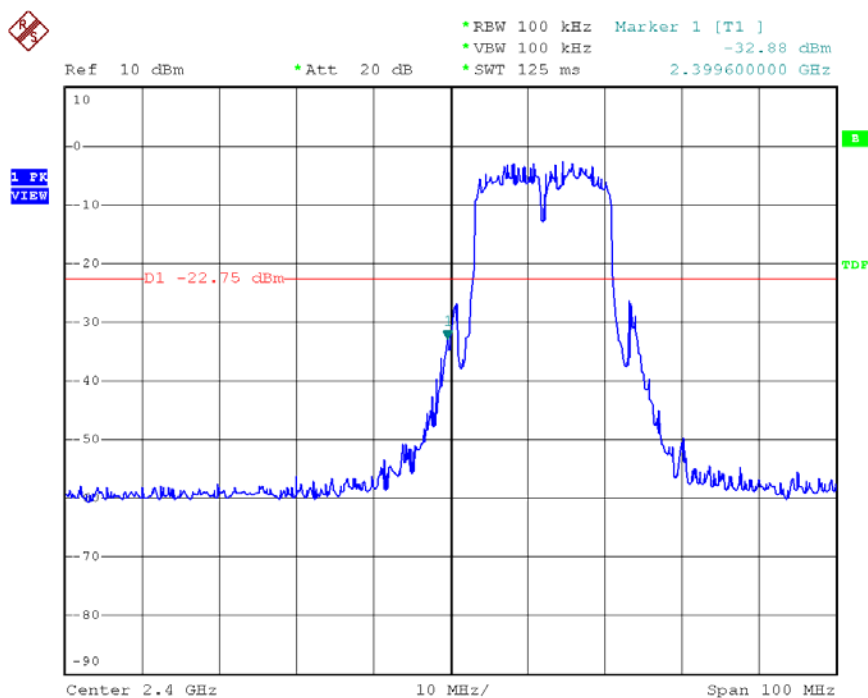
Date: 8.APR.2006 11:10:09



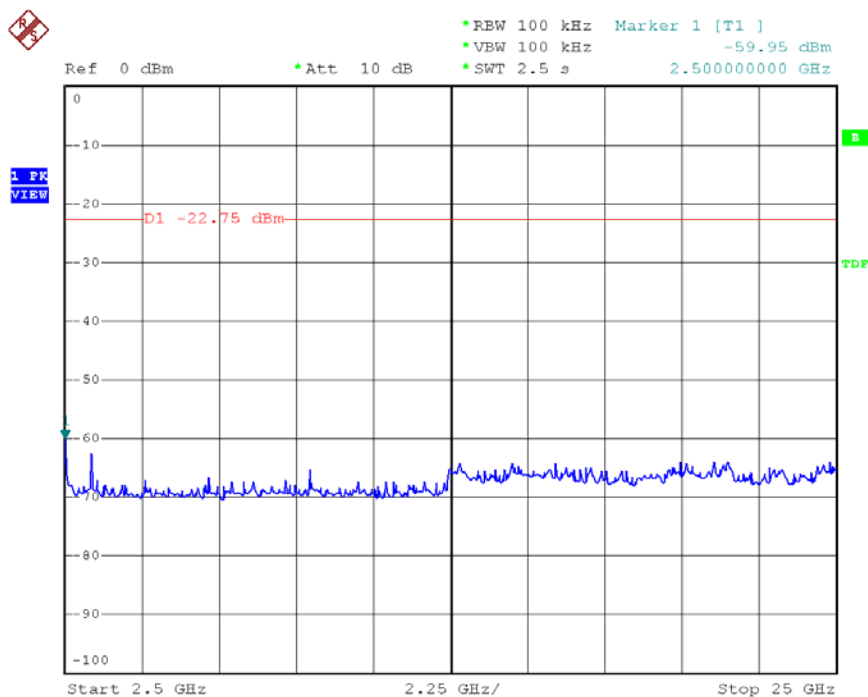
Date: 8.APR.2006 11:11:07

Modulation Standard: 802.11g (6Mbps)

Channel: 01

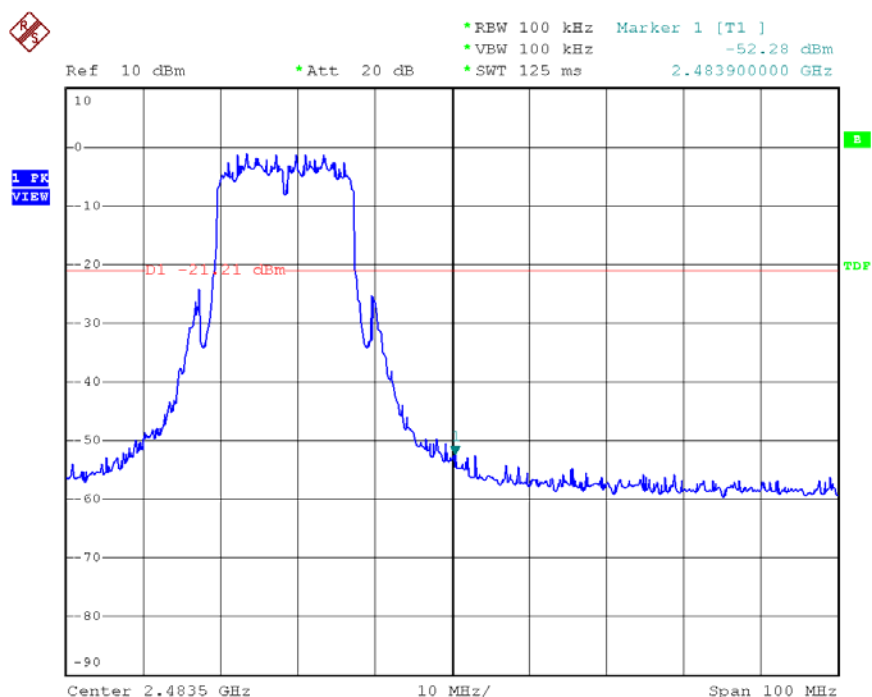


Date: 5.APR.2006 11:39:42

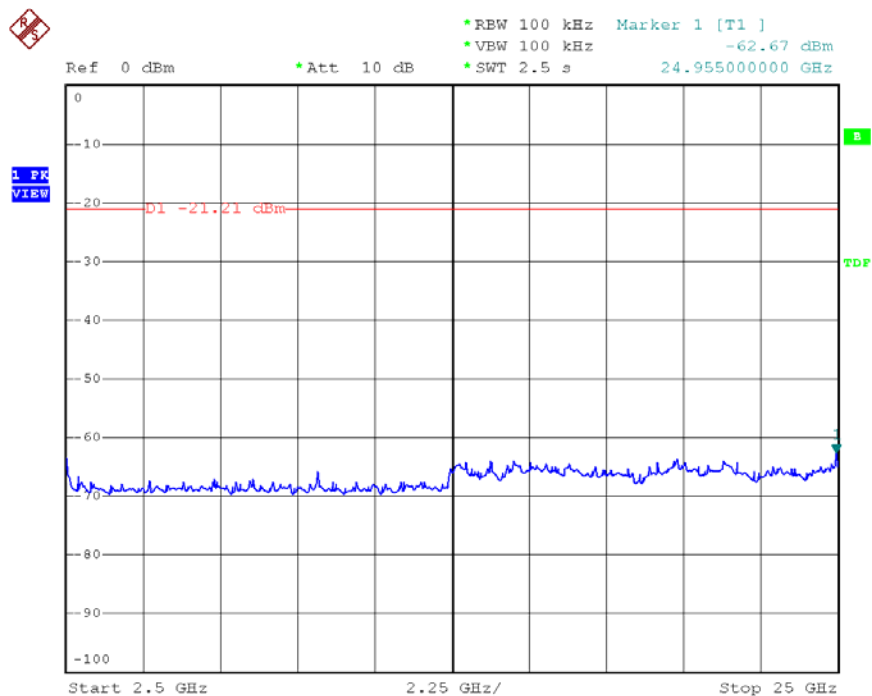


Date: 5.APR.2006 11:41:52

Channel: 11



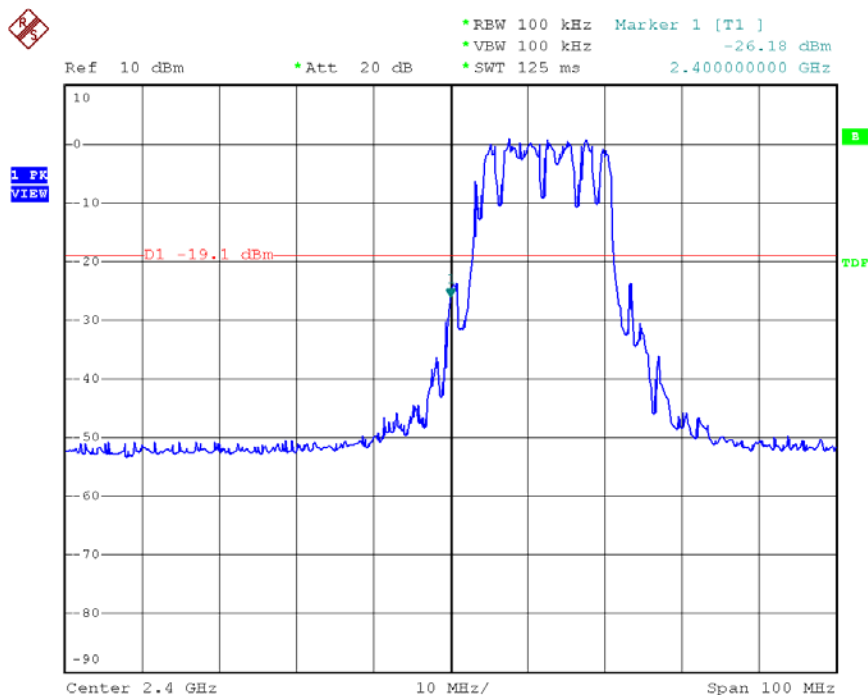
Date: 5.APR.2006 11:44:10



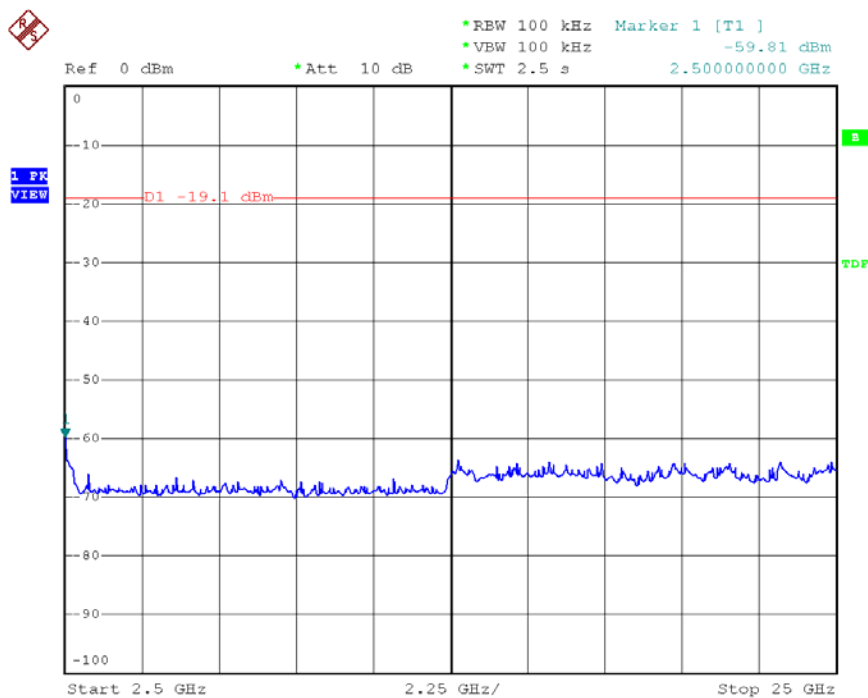
Date: 5.APR.2006 11:45:15

Modulation Standard: 802.11MIMO, EWC (auto 130Mbps)

Channel: 01

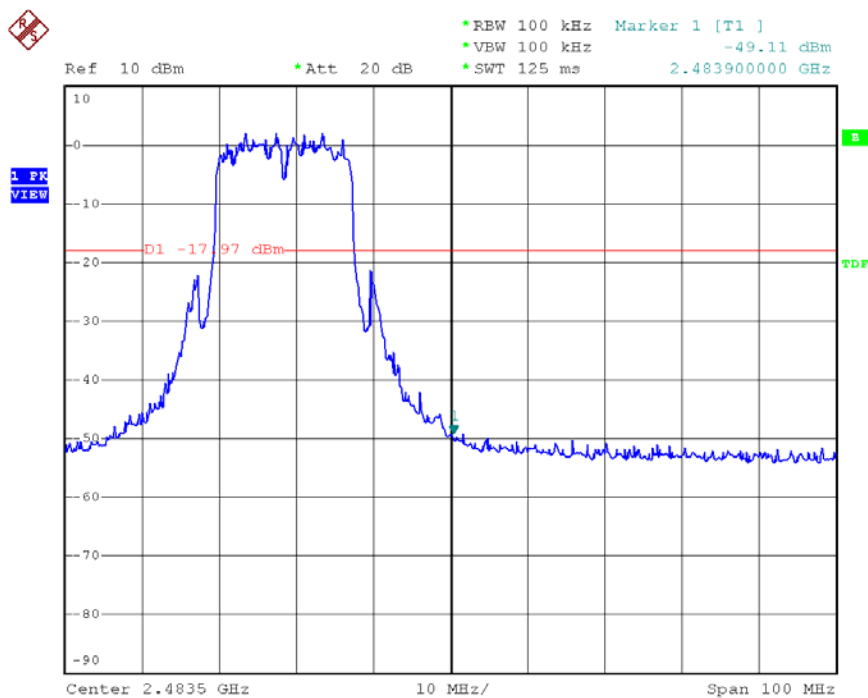


Date: 5.APR.2006 13:56:10

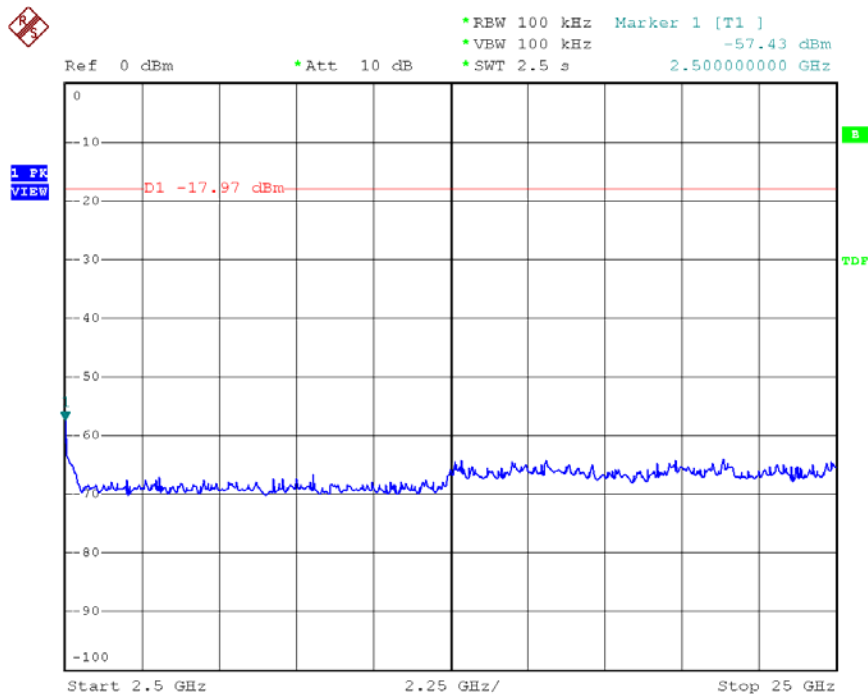


Date: 5.APR.2006 13:57:14

Channel: 11



Date: 5.APR.2006 14:36:35



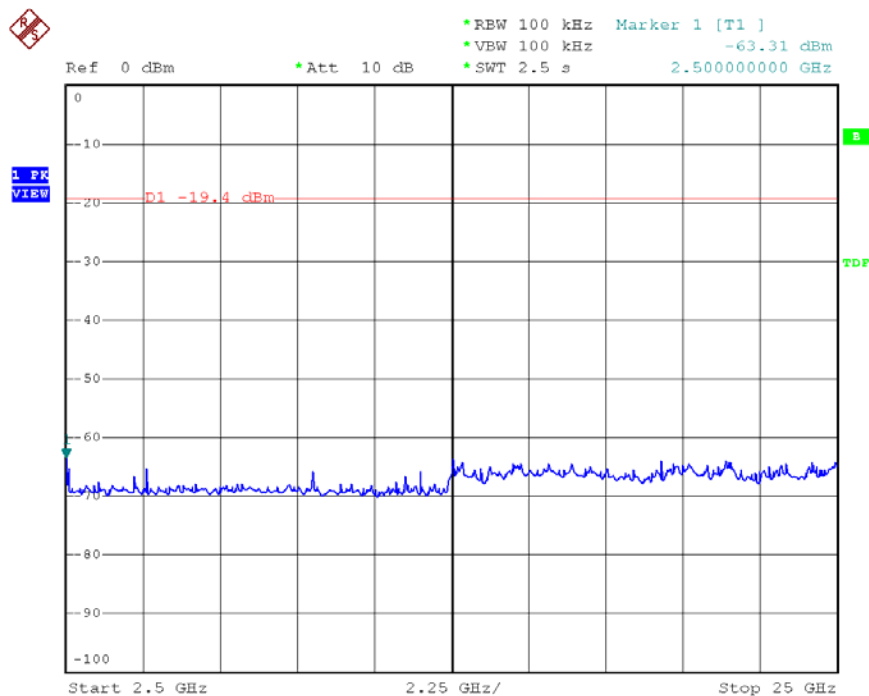
Date: 5.APR.2006 14:37:50

Modulation Standard: 802.11MIMO, EWC (auto 270Mbps)

Channel: 03

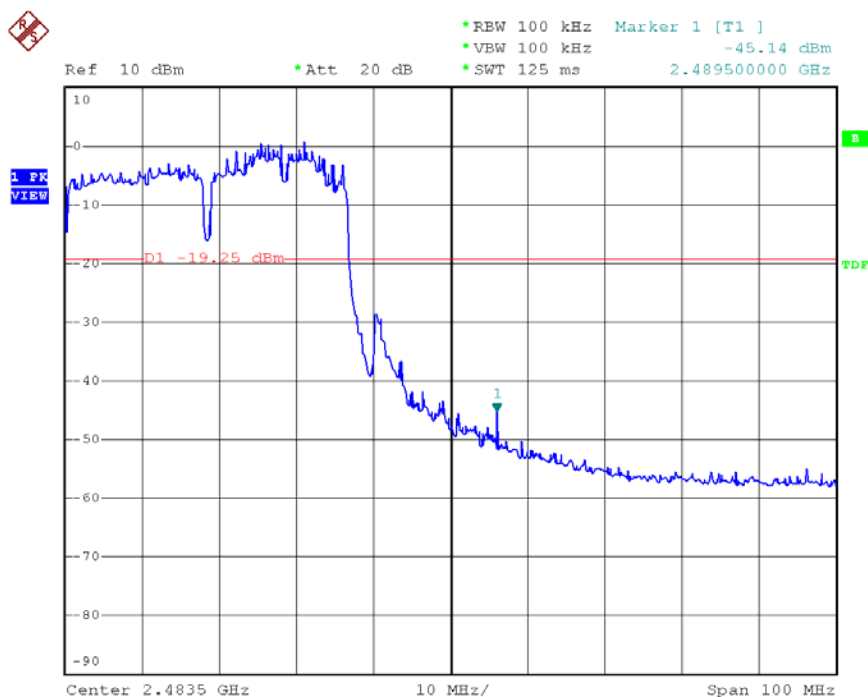


Date: 12.APR.2006 19:45:53

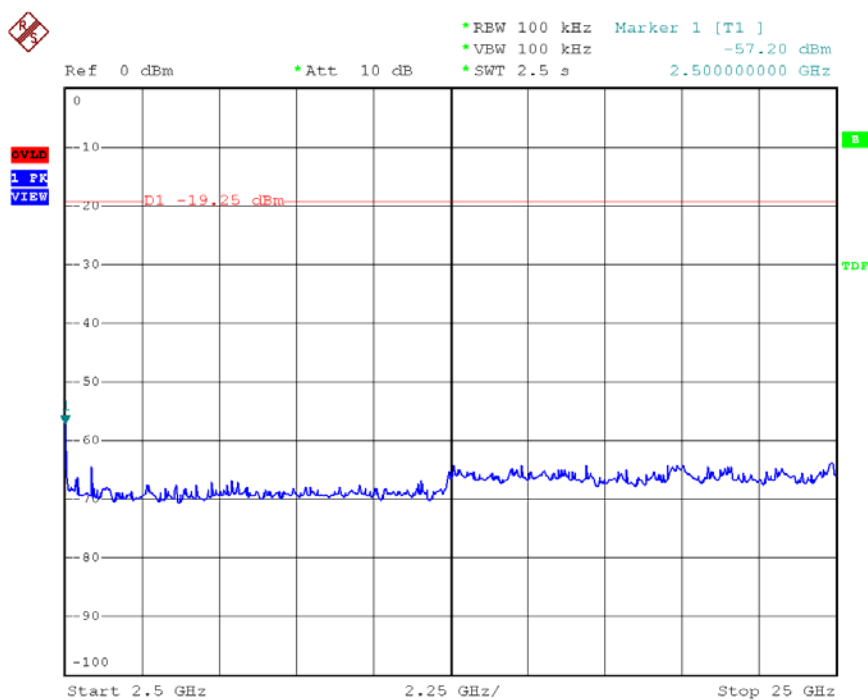


Date: 12.APR.2006 19:46:37

Channel: 09



Date: 12.APR.2006 19:55:04



Date: 12.APR.2006 19:55:42

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 70% Atmospheric pressure: 1010 mmHg

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.764	H	49.14	-0.75	48.39	Peak	74	54	-25.61	92	1.2
2389.458	H	37.66	-0.75	36.91	Ave	74	54	-17.09	92	1.2
2389.254	V	54.61	-0.75	53.86	Peak	74	54	-20.14	267	1.0
2388.948	V	42.84	-0.76	42.08	Ave	74	54	-11.92	267	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.736	H	50.01	-0.45	49.56	Peak	74	54	-24.44	92	1.2
2483.622	H	38.05	-0.45	37.60	Ave	74	54	-16.40	92	1.2
2484.306	V	60.04	-0.45	59.59	Peak	74	54	-14.41	267	1.0
2483.622	V	48.15	-0.45	47.70	Ave	74	54	-6.30	267	1.0

Modulation Standard: 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 70% Atmospheric pressure: 1010 mmHg

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.968	H	49.77	-0.75	49.02	Peak	74	54	-24.98	92	1.2
2389.254	H	37.93	-0.75	37.18	Ave	74	54	-16.82	92	1.2
2389.764	V	56.30	-0.75	55.55	Peak	74	54	-18.45	267	1.0
2389.764	V	44.83	-0.75	44.08	Ave	74	54	-9.92	267	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.622	H	50.44	-0.45	49.99	Peak	74	54	-24.01	92	1.2
2483.546	H	38.70	-0.45	37.25	Ave	74	54	-15.75	92	1.2
2483.508	V	60.51	-0.45	60.06	Peak	74	54	-13.94	267	1.0
2483.736	V	48.74	-0.45	48.29	Ave	74	54	-5.71	267	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

Modulation Standard: IEEE 802.11MIMO, EWC (auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 70% Atmospheric pressure: 1010 mmHg

c) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.764	H	50.00	-0.75	49.25	Peak	74	54	-24.75	92	1.2
2389.764	H	38.24	-0.75	37.49	Ave	74	54	-16.51	92	1.2
2389.948	V	57.52	-0.75	56.77	Peak	74	54	-17.23	267	1.0
2389.764	V	45.62	-0.75	44.87	Ave	74	54	-9.13	267	1.0

d) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.736	H	50.24	-0.45	49.79	Peak	74	54	-24.21	92	1.2
2483.508	H	38.50	-0.45	38.05	Ave	74	54	-15.95	92	1.2
2483.622	V	60.53	-0.45	60.08	Peak	74	54	-13.92	267	1.0
2483.508	V	48.88	-0.45	48.43	Ave	74	54	-5.57	267	1.0

Modulation Standard: IEEE 802.11MIMO, EWC (auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 70% Atmospheric pressure: 1010 mmHg

e) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.764	H	50.36	-0.75	49.61	Peak	74	54	-24.39	112	1.2
2389.764	H	39.63	-0.75	38.88	Ave	74	54	-15.12	112	1.2
2389.764	V	58.12	-0.75	57.37	Peak	74	54	-16.63	292	1.0
2389.764	V	46.72	-0.75	45.97	Ave	74	54	-9.13	292	1.0

f) Channel 09

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.508	H	52.64	-0.45	52.19	Peak	74	54	-21.81	105	1.2
2483.508	H	41.23	-0.45	40.78	Ave	74	54	-13.22	105	1.2
2483.508	V	62.71	-0.45	62.26	Peak	74	54	-11.74	272	1.0
2483.508	V	50.13	-0.45	49.68	Ave	74	54	-4.32	272	1.0

9. Power Spectral Density

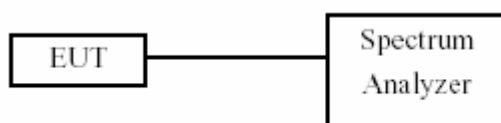
9.1 Test Limit

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	Type	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: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-13.11
06	2437	-11.57
11	2462	-11.75

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-15.64
06	2437	-15.56
11	2462	-14.52

(3) Modulation Standard: IEEE 802.11MIMO, EWC (auto 130Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth TX0 (dBm)	Maximum Power Density of 3 kHz Bandwidth TX1 (dBm)	Maximum Power Density of 3 kHz Bandwidth Total (dBm)
01	2412	-14.50	-16.61	-12.42
06	2437	-13.12	-14.39	-10.70
11	2462	-14.62	-14.86	-11.73

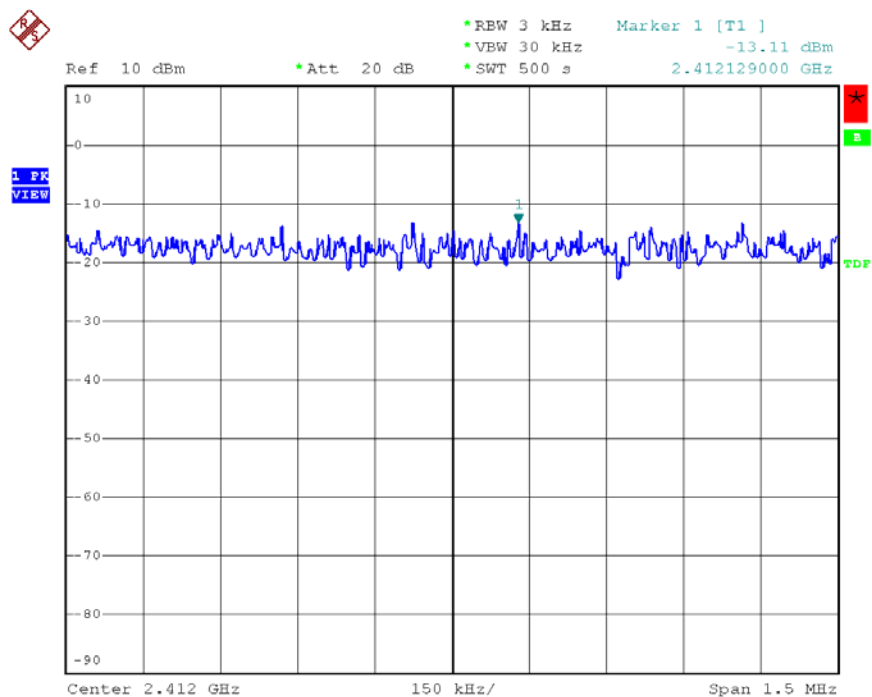
(4) Modulation Standard: IEEE 802.11MIMO, EWC (auto 270Mbps)

Test Date: Apr. 05, 2006 Temperature: 25°C Humidity: 68% Atmospheric pressure: 1010 mmHg

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth TX0 (dBm)	Maximum Power Density of 3 kHz Bandwidth TX1 (dBm)	Maximum Power Density of 3 kHz Bandwidth Total (dBm)
03	2422	-17.10	-17.10	-14.09
06	2437	-16.47	-16.93	-13.68
09	2452	-16.27	-18.96	-14.40

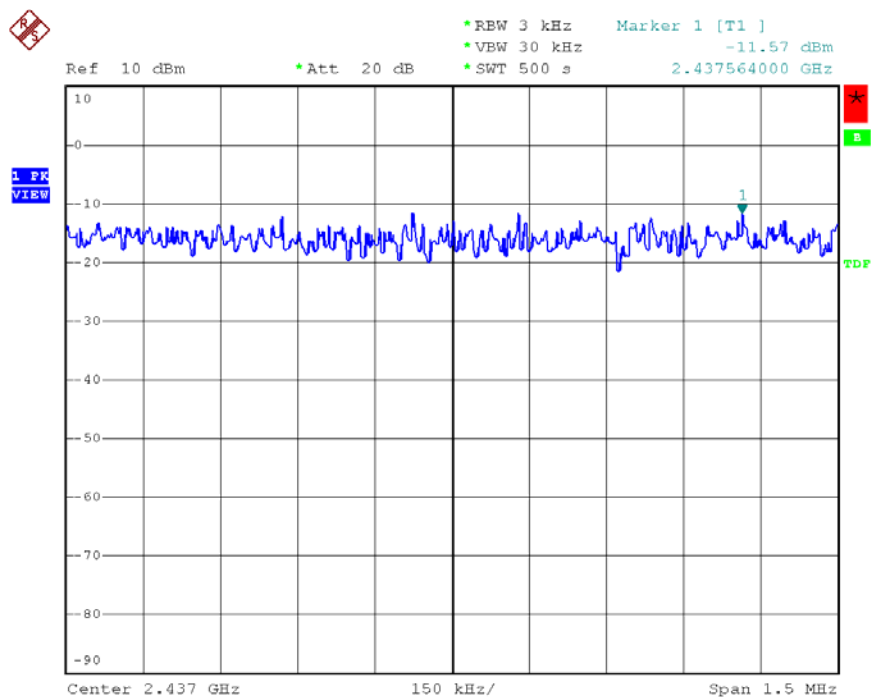
Modulation Standard: 802.11b (11Mbps)

Channel: 01



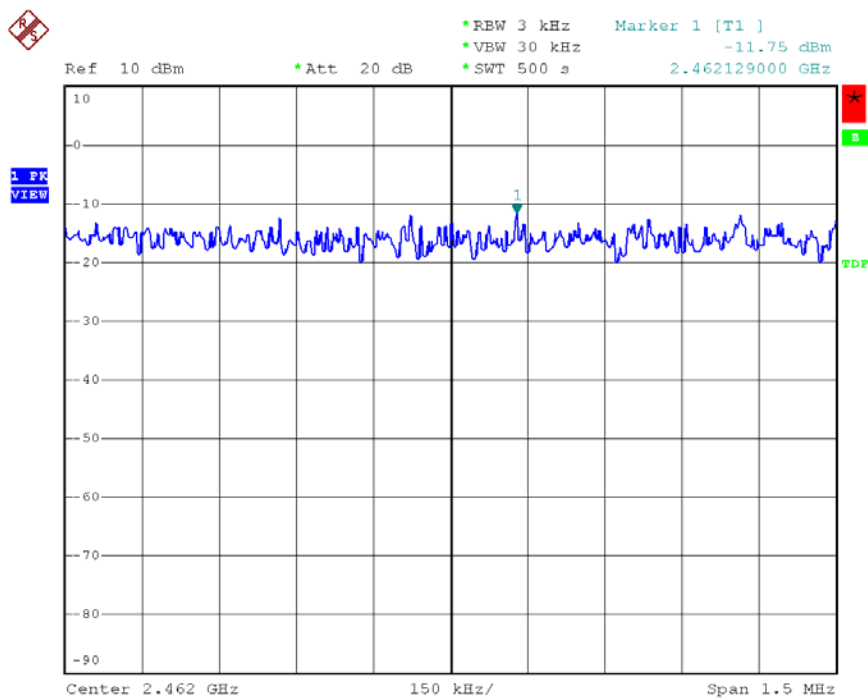
Date: 8.APR.2006 10:59:07

Channel:06

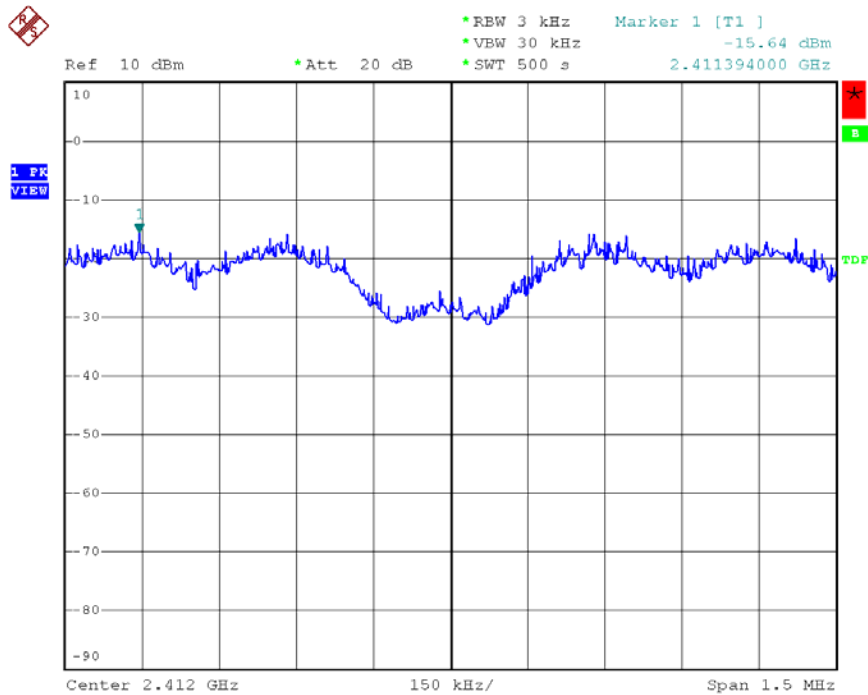


Date: 8.APR.2006 10:55:02

Channel: 11

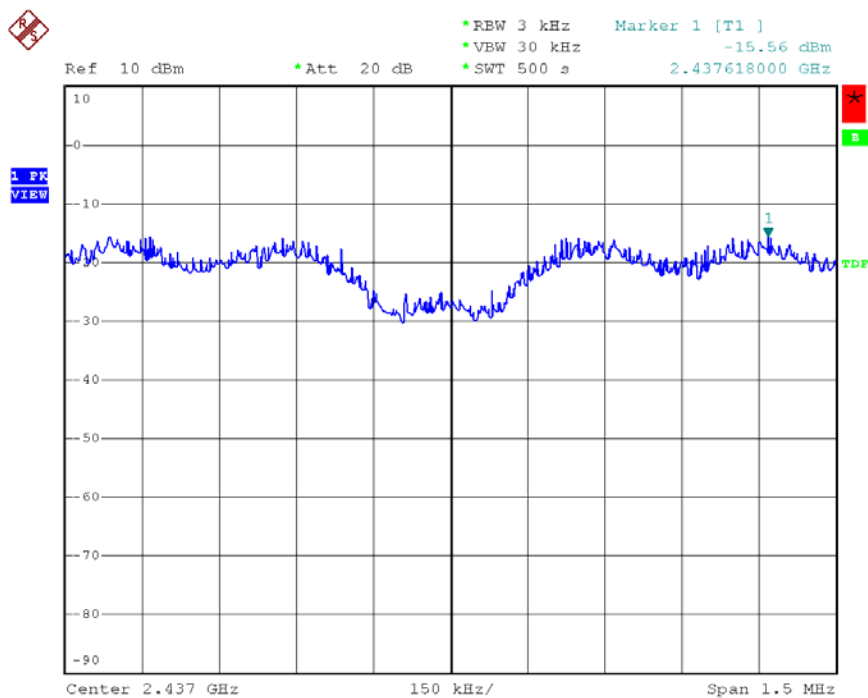


Date: 8.APR.2006 11:06:51

Modulation Standard: 802.11g (6Mbps)
Channel: 01

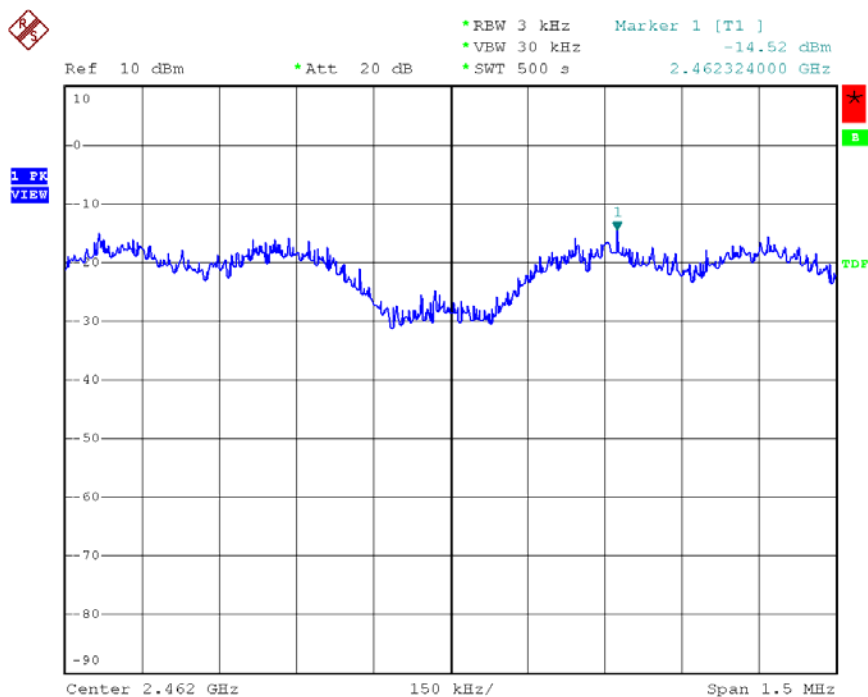
Date: 5.APR.2006 11:16:39

Channel: 06



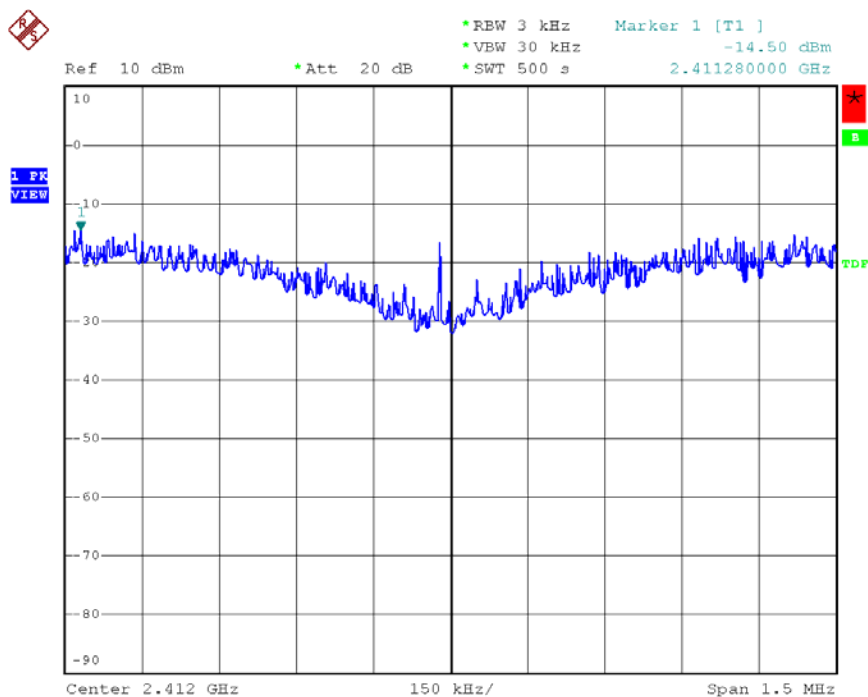
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Channel:11



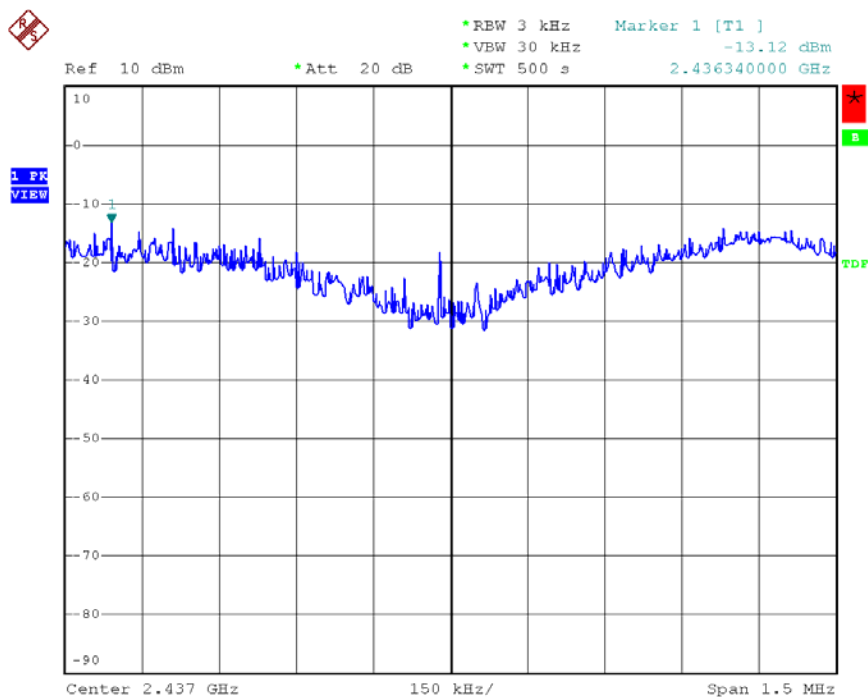
Date: 5.APR.2006 11:36:33

Modulation Standard: 802.11MIMO, EWC (auto 130Mbps) – TX0
Channel: 01



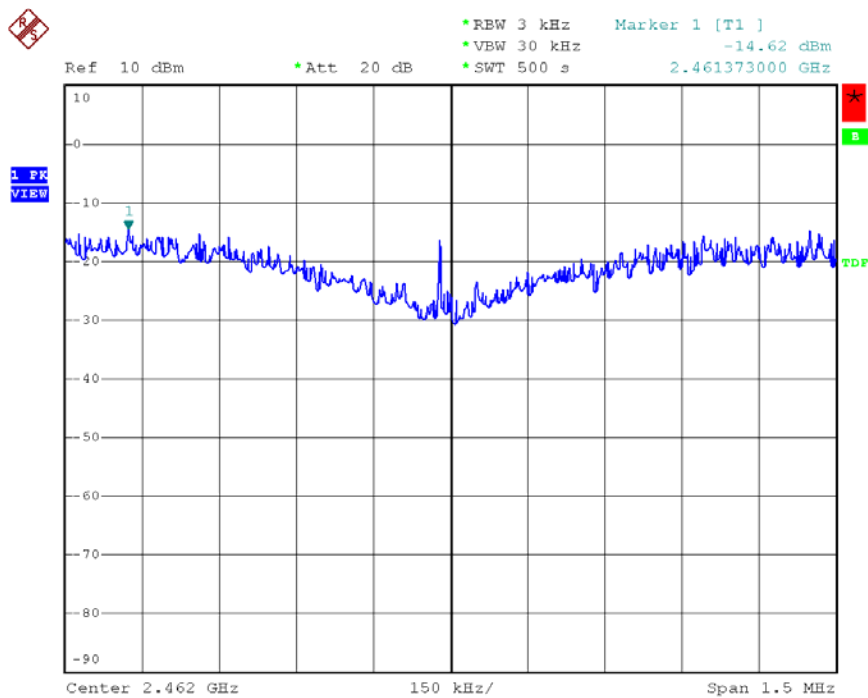
Date: 12.APR.2006 21:30:02

Channel: 06



Date: 12.APR.2006 21:37:23

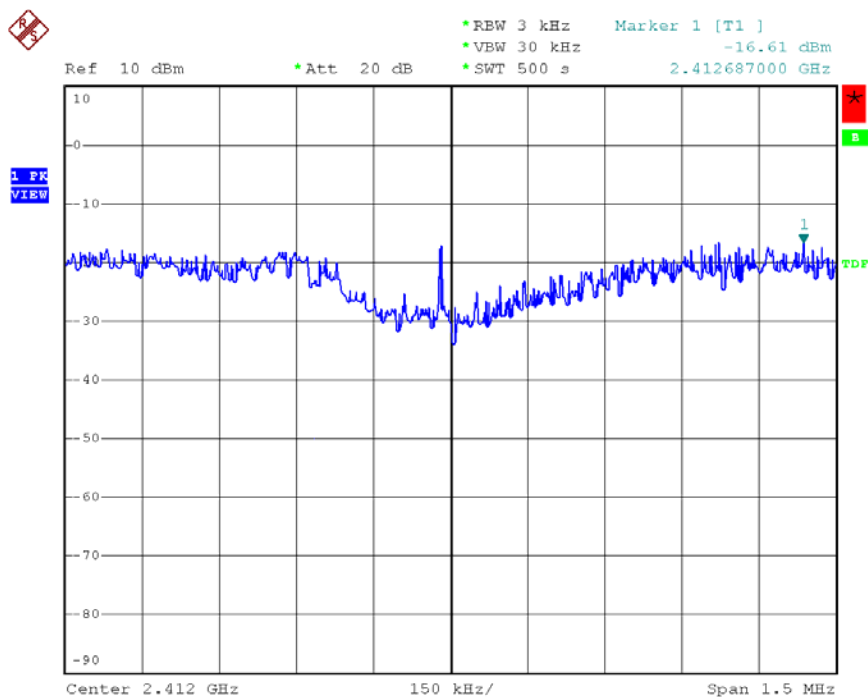
Channel:11



Date: 12.APR.2006 21:50:01

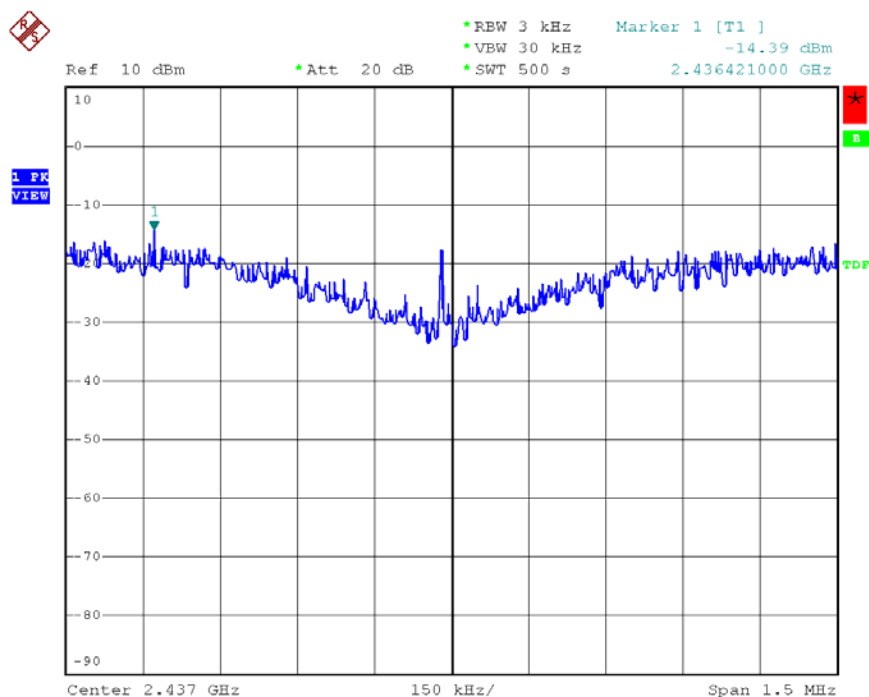
Modulation Standard:802.11MIMO, EWC (auto 130Mbps) – TX1

Channel:01



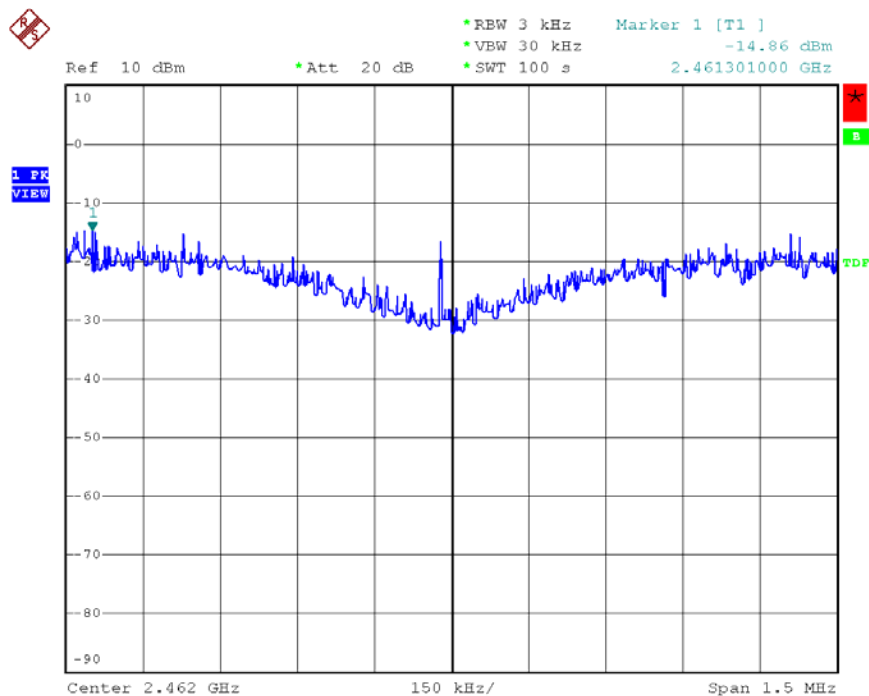
Date: 12.APR.2006 21:22:15

Channel:06



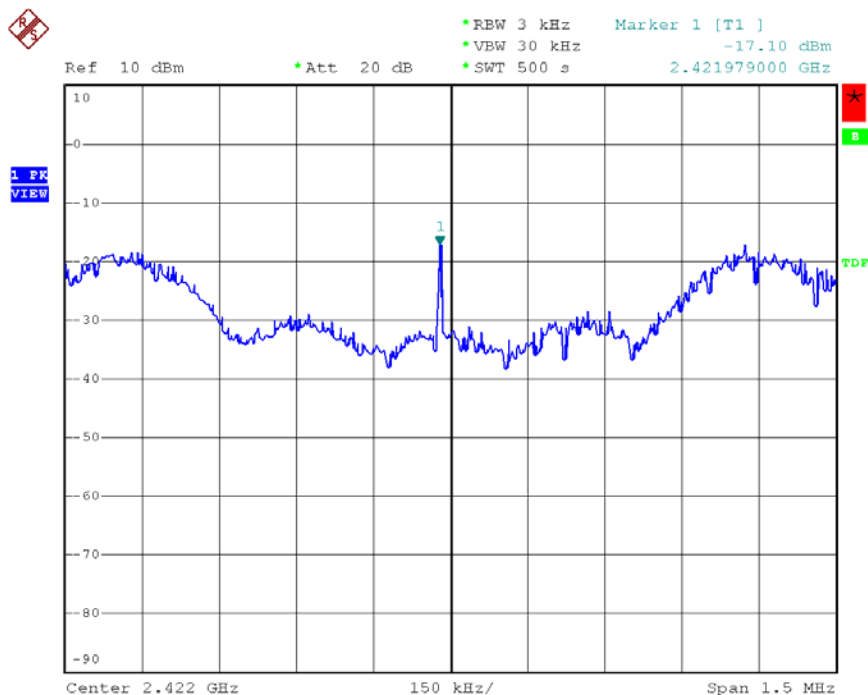
Date: 12.APR.2006 21:43:00

Channel:11



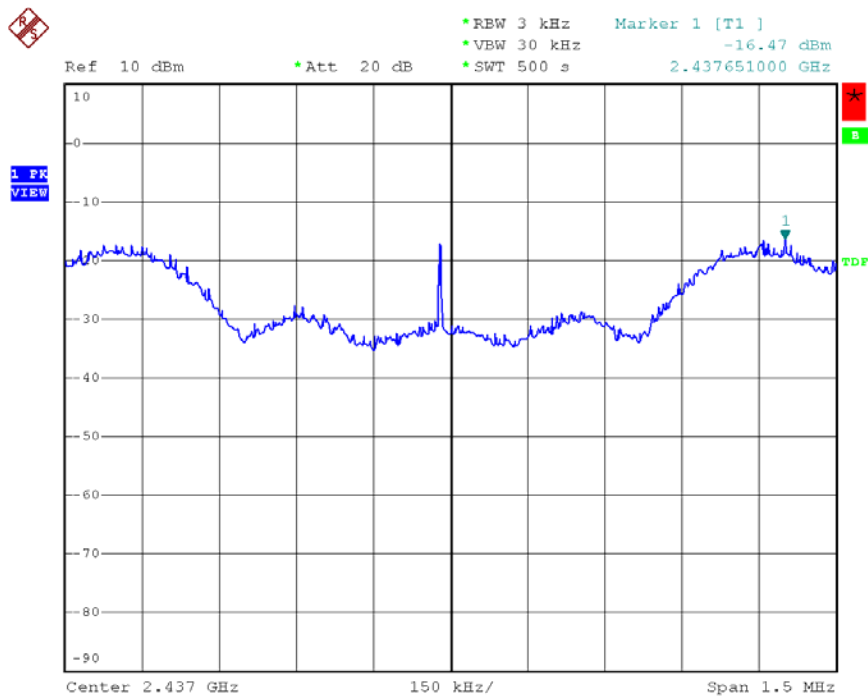
Date: 12.APR.2006 21:46:56

Modulation Standard: 802.11MIMO, EWC (auto 270Mbps) – TX0
Channel: 03



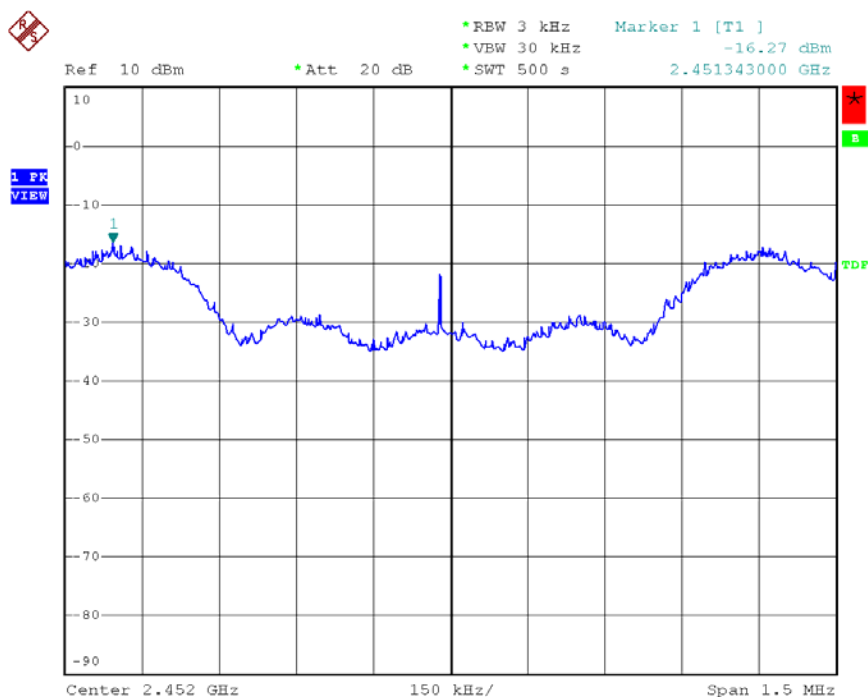
Date: 12.APR.2006 20:38:11

Channel: 06



Date: 12.APR.2006 20:54:40

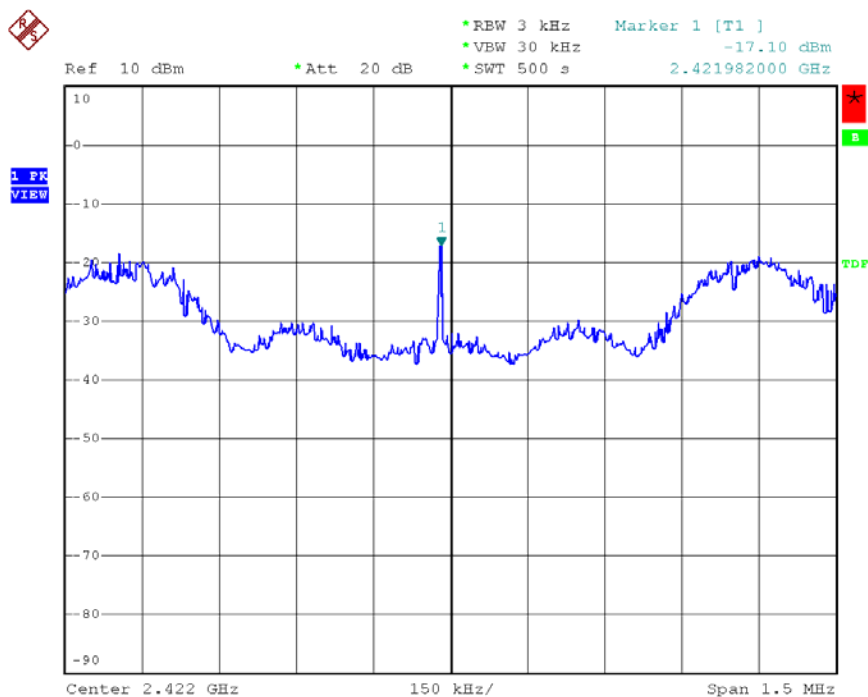
Channel:09



Date: 12.APR.2006 21:07:07

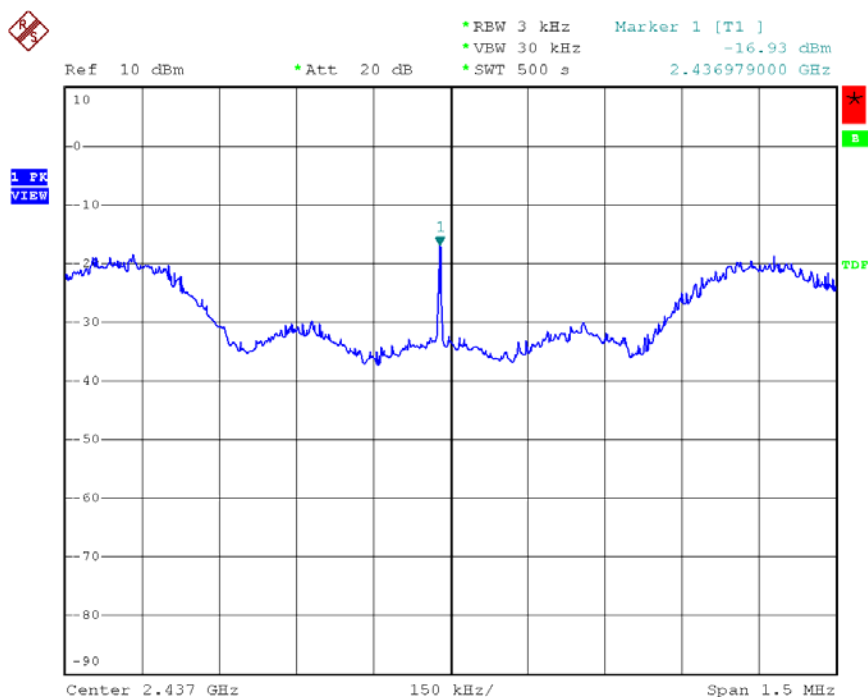
Modulation Standard:802.11MIMO, EWC (auto 270Mbps) – TX1

Channel:03



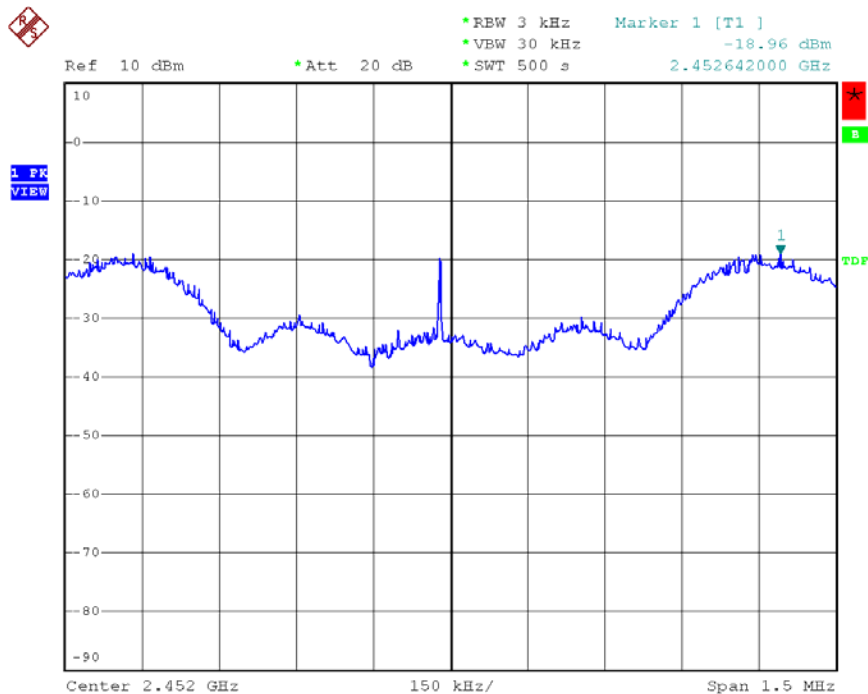
Date: 12.APR.2006 20:31:28

Channel:06



Date: 12.APR.2006 20:46:44

Channel:09



Date: 12.APR.2006 21:01:23

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			

** : 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.