



SPORTON International Inc.

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FCC RADIO TEST REPORT

Applicant's company	3Com Corporation
Applicant Address	350 Campus Drive, Marlborough , MA 01752-3064. U.S.A.
FCC ID	O9C-WL548A
Manufacturer's company	Accton Technology Corporation
Manufacturer Address	No. 1 Creation Rd., III, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C.

Product Name	3Com AirProtect Sensor 5750
Brand Name	3Com
Model Name	WL-548A
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Receive Date	Apr. 07, 2006
Test Date	Jun. 08, 2006
Submission Type	Original Equipment



Statement

Test result included is only for the 802.11b/g part and 802.11a (5725 ~ 5850MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.4-2003** and **47 CFR FCC Part 15 Subpart C**.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



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History of This Test Report

Original Issue Date: Apr. 20, 2007

Report No.: FR720216-02-AB

No additional attachment.


Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

1. CERTIFICATE OF COMPLIANCE

Product Name : 3Com AirProtect Sensor 5750
Brand Name : 3Com
Model Name : WL-548A
Applicant : 3Com Corporation
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Apr. 07, 2006 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.


Wayne Hsu
SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
4.1	15.207	AC Power Line Conducted Emissions	Complies	3.54 dB
4.2	15.247(b)(3)	Maximum Peak Conducted Output Power	Complies	4.5 dB
4.3	15.247(e)	Power Spectral Density	Complies	4.87 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions	Complies	0.21 dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.14 dB
4.7	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	$\pm 2.26\text{dB}$	Confidence levels of 95%
Maximum Peak Conducted Output Power	$\pm 0.5\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 0.71\text{dB}$	Confidence levels of 95%
6dB Spectrum Bandwidth	$\pm 6.25 \times 10^{-7}$	Confidence levels of 95%
Radiated Emissions/ Band Edge Emissions	$\pm 3.72\text{dB}$	Confidence levels of 95%

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	WLAN
Radio Type	Intentional Transceiver
Power Type	POE
Interface Type	POE / Console / Antenna
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11a/g
Data Modulation	DSSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54/108)
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	11b/g: 11 ; 11a: 7
Channel Band Width (99%)	11b: 15.64 MHz ; 11g: 16.56 MHz ; 11a: 16.64 MHz ; 11a turbo: 33.12 MHz
Conducted Output Power	11b: 20.00 dBm ; 11g: 23.50 dBm ; 11a: 24.70 dBm ; 11a turbo: 24.50 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

3.2. Accessories

Power	Brand	Model	Rating
POE	3Com	PW130	100-250VAC, 48VDC

3.3. Table for Filed Antenna

For 2.4GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	3Com	3CWE591	Omni directional Antenna	N Type	6.00
2	3Com	3CWE592	Omni directional Antenna	N Type	3.00
3	3Com	3CWE596	Panel Antenna	N Type	18.00
4	3Com	3CWE597	Bidirectional Antenna	N Type	4.00
5	3Com	3CWE598	Panel Antenna	N Type	8.00
6	-	FDP-ACBSMA-GG	Dipole Antenna	Reversed-SMA	2.00

For 5GHz Band

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	3Com	3CWE591	Omni directional Antenna	N Type	8.00
2	3Com	3CWE592	Omni directional Antenna	N Type	4.00
3	3Com	3CWE596	Panel Antenna	N Type	20.00
4	3Com	3CWE597	Bidirectional Antenna	N Type	6.00
5	3Com	3CWE598	Panel Antenna	N Type	10.00
6	-	FDP-ACBSMA-GG	Dipole Antenna	Reversed-SMA	5.00

3.4. Table for Carrier Frequencies

Frequency Allocation for 802.11b/g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

Frequency Allocation for 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5725~5850 MHz	149	5745 MHz	Turbo 152	5760 MHz
	153	5765 MHz	Turbo 160	5800 MHz
	157	5785 MHz		
	161	5805 MHz		
	165	5825 MHz		

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	11 Mbps / 54 Mbps	6 / 157	3
Max. Peak Conducted Output Power Power Spectral Density 6dB Spectrum Bandwidth	11b/BPSK	1 Mbps	1/6/11	1/2/3/4/5/6
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4/5/6
	11a/BPSK	6 Mbps	149/157/165	1/2/3/4/5/6
	11a/BPSK Turbo	12 Mbps	152/160	1/2/3/4/5/6
Radiated Emissions Below 1GHz	11g/BPSK	6 Mbps	6	1/2/3/4/5/6
	11a/BPSK	6 Mbps	157	1/2/3/4/5/6
Radiated Emissions Above 1GHz	11b/ BPSK	1 Mbps	1/6/11	1/2/3/4/5/6
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4/5/6
	11a/BPSK	6 Mbps	149/157/165	1/2/3/4/5/6
	11a/BPSK Turbo	12 Mbps	152/160	1/2/3/4/5/6
Band Edge Emissions	11b/ BPSK	1 Mbps	1/11	1/2/3/4/5/6
	11g/BPSK	6 Mbps	1/11	1/2/3/4/5/6
	11a/BPSK	6 Mbps	149/165	1/2/3/4/5/6
	11a/BPSK Turbo	12 Mbps	152/160	1/2/3/4/5/6

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	-	-	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

3.7. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	PP01L	DoC

3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Ant. 1

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	19	20	20
IEEE 802.11g	15	20	17

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	16	16	-

For Ant. 2

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	19.5	20	19.5
IEEE 802.11g	17.5	20	18

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	23	23	23
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	23	23	-

For Ant. 3
Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	3	7	5.5
IEEE 802.11g	4	4	3.5

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	14	14	14
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	14	14	-

For Ant. 4
Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	18	18	20
IEEE 802.11g	14	14	17

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	20	20	-

For Ant. 5
Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	19	20	18.5
IEEE 802.11g	14	20	16

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	20	20	-

For Ant. 6
Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	18	20	18.5
IEEE 802.11g	15	20	16

Power Parameters of IEEE 802.11a

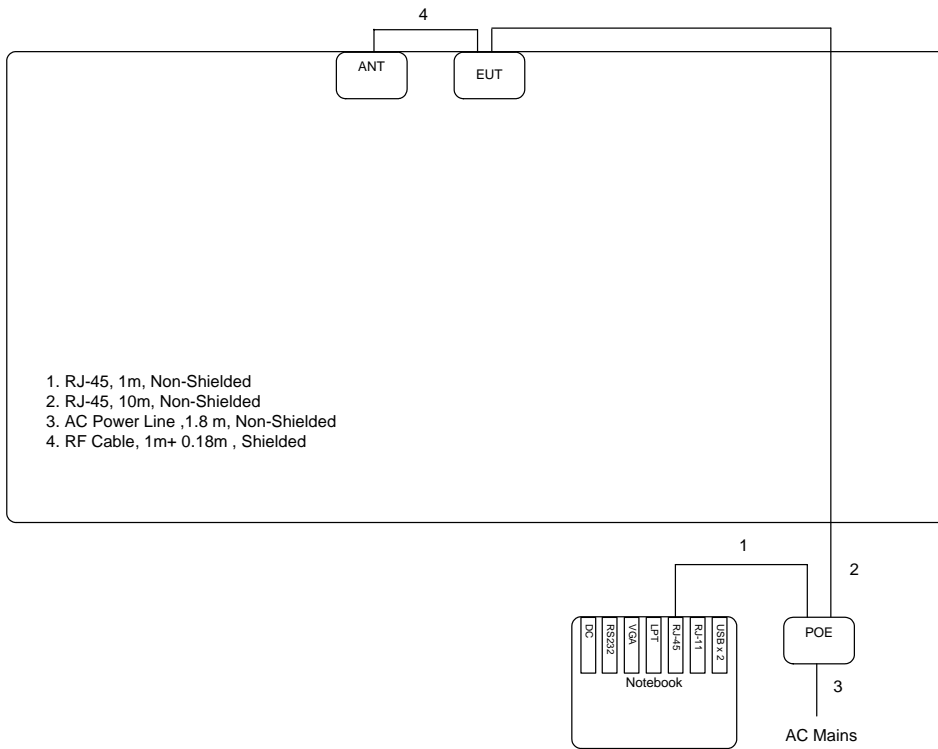
Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20
Frequency	5760 MHz	5800 MHz	-
IEEE 802.11a Turbo	20	20	-

3.9. Test Configurations

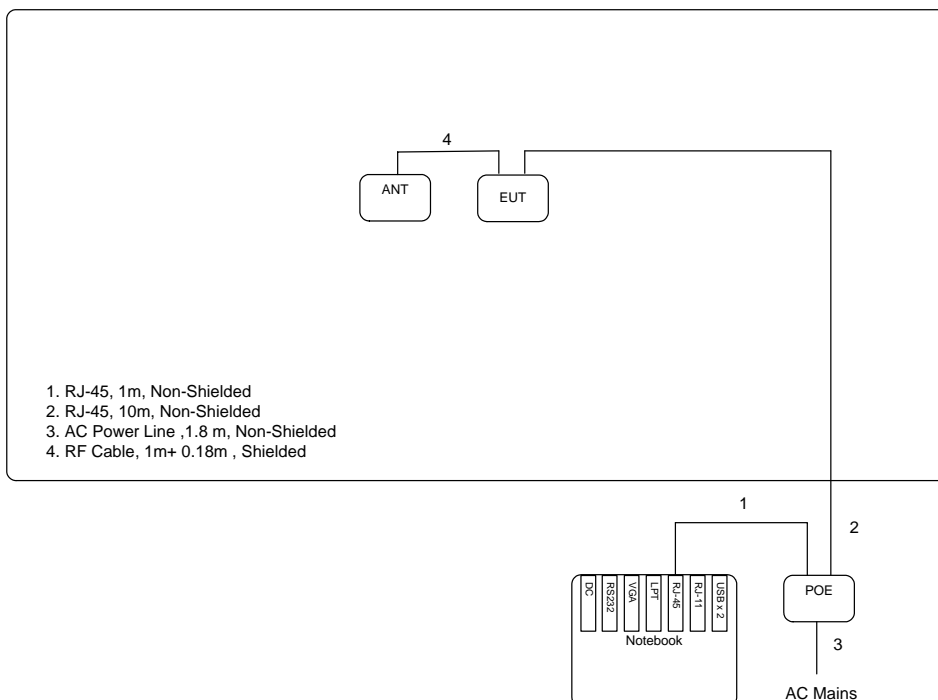
3.9.1. Radiation Emissions Test Configuration

For Ant. 1/2/3/4/5

Test Configuration: 30MHz~1GHz

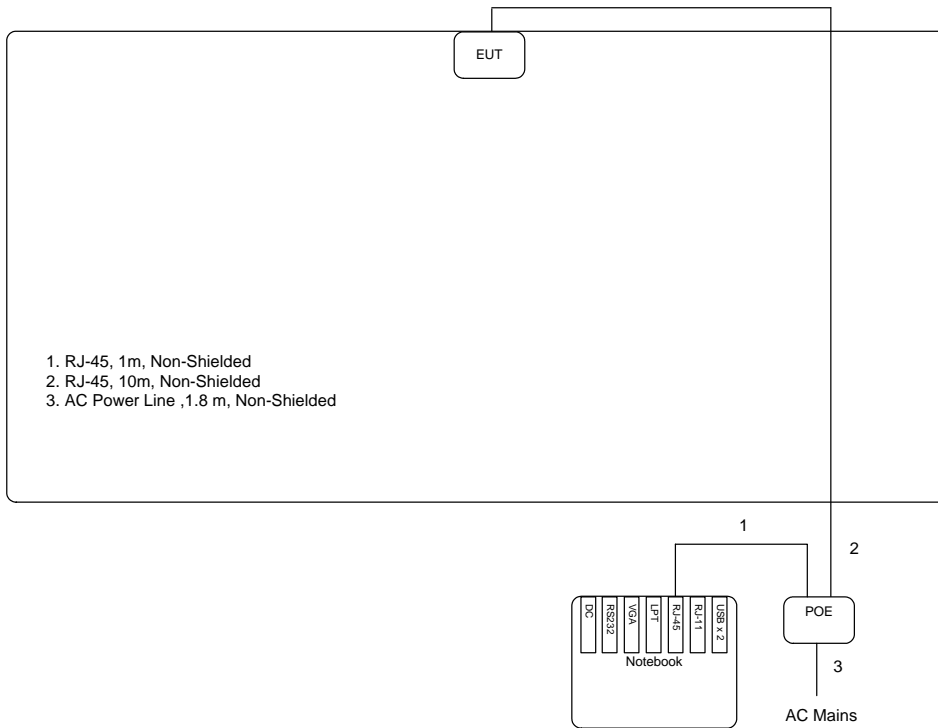


Test Configuration: above 1GHz

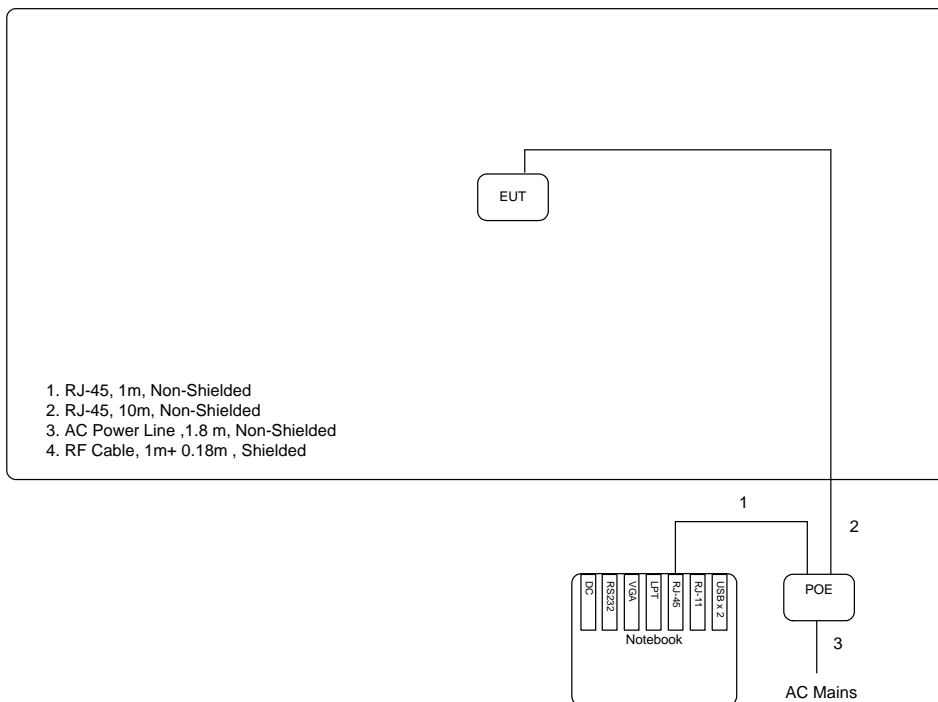


For Ant. 6

Test Configuration: 30MHz~1GHz

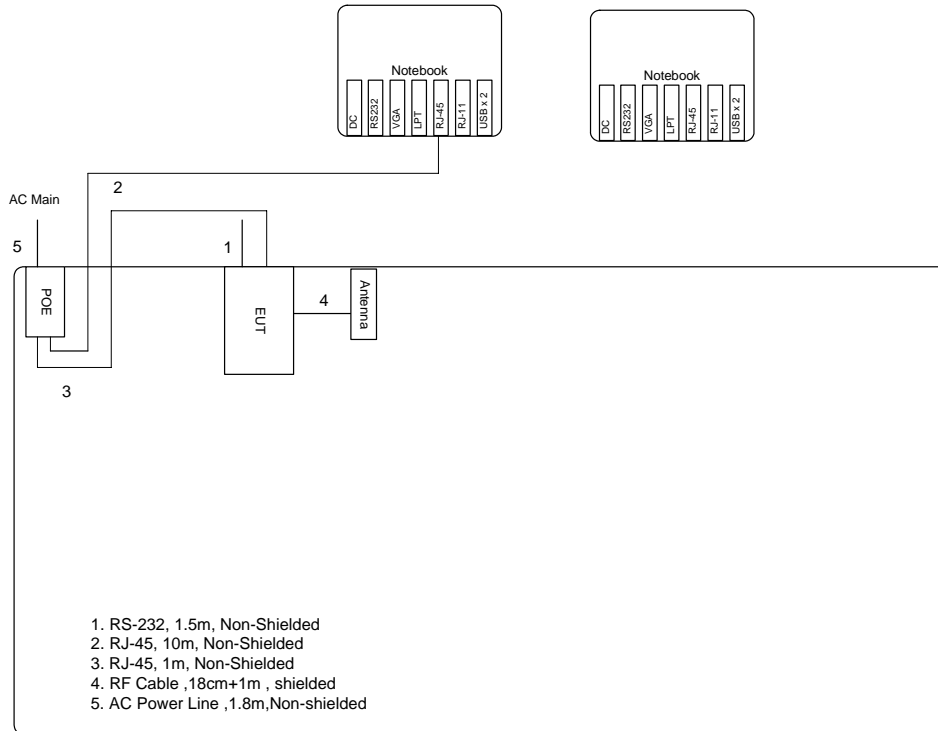


Test Configuration: above 1GHz



3.9.2. AC Power Line Conduction Emissions Test Configuration

For Ant. 3



4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For a Low-power Radio-frequency Device which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

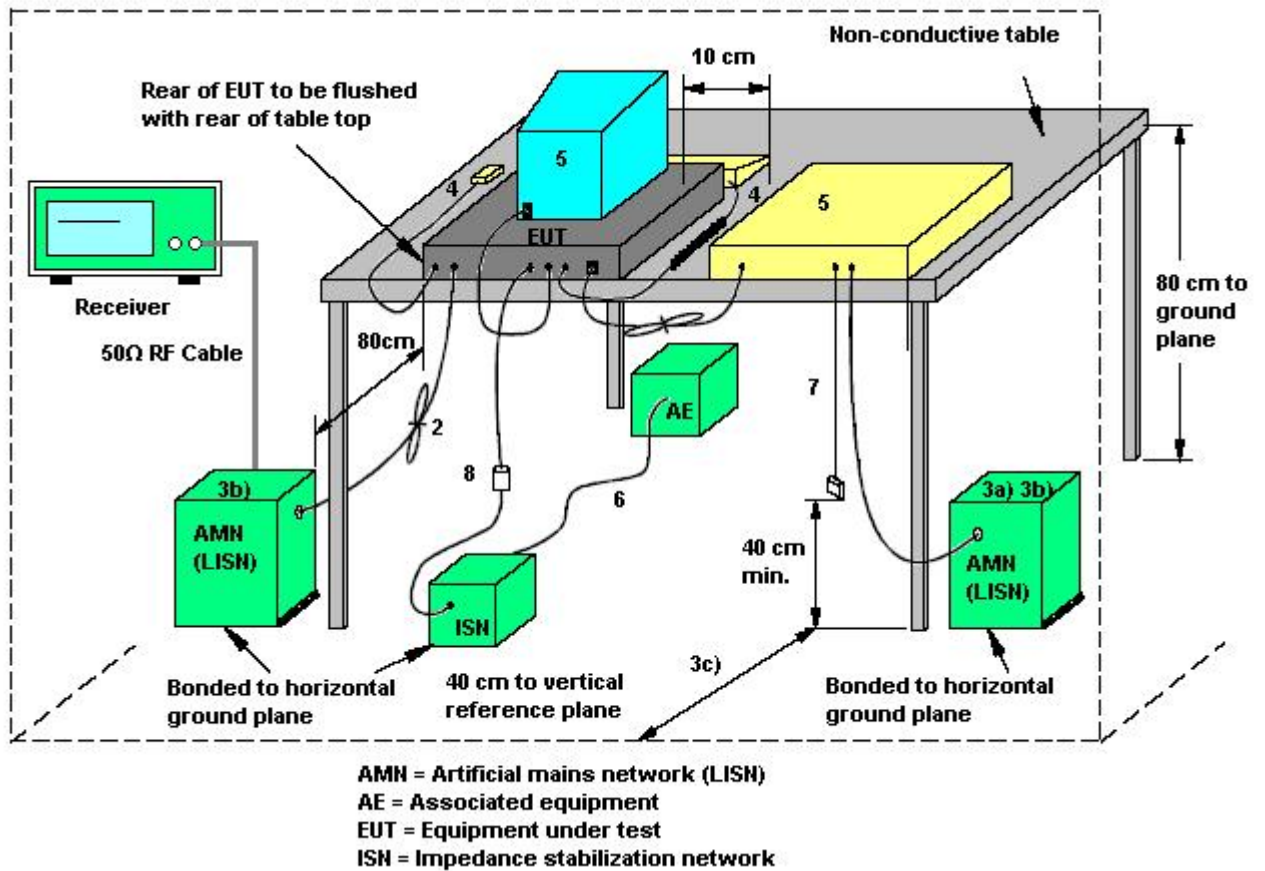
Please refer to section 5 in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 KHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



If cables, which hang closer than 40 cm to the horizontal metal groundplane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.

Excess mains cord shall be bundled in the centre or shortened to appropriate length.

EUT is connected to one artificial mains network (AMN). All AMNs and ISNs may alternatively be connected to a vertical reference plane or metal wall.

All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.

AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.

Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.

Cables of hand operated devices, such as keyboards, mice, etc. shall be placed as for normal usage. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.

I/O signal cable intended for external connection.

The end of the I/O signal cables which are not connected to an AE may be terminated, if required, using correct terminating impedance.

If used, the current probe shall be placed at 0,1 m from the ISN.

4.1.5. Test Deviation

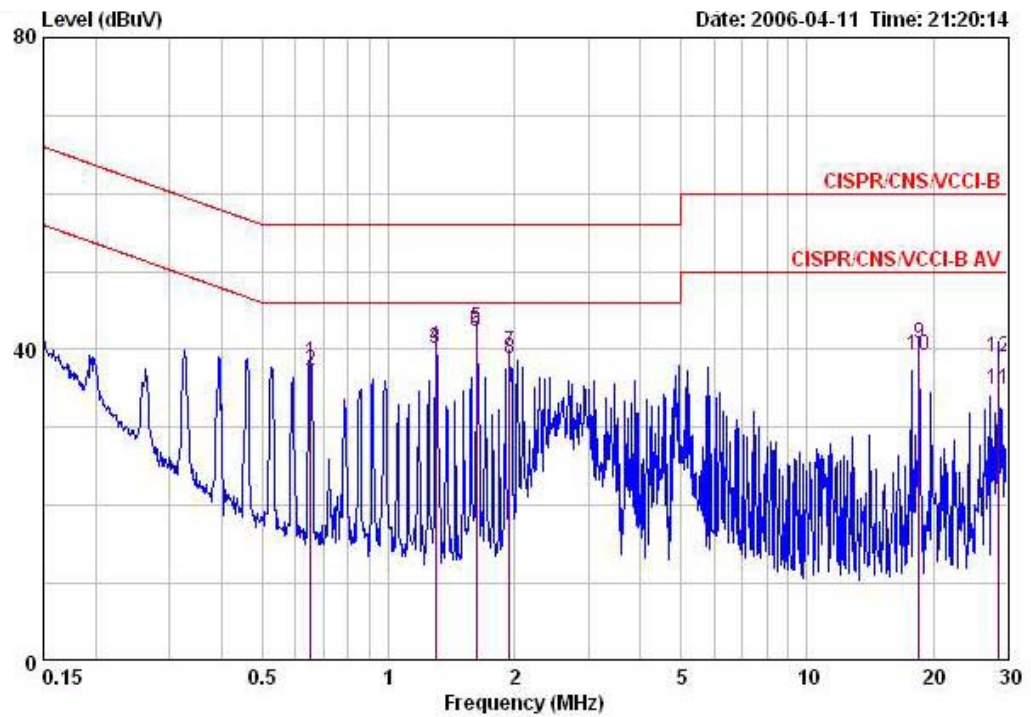
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

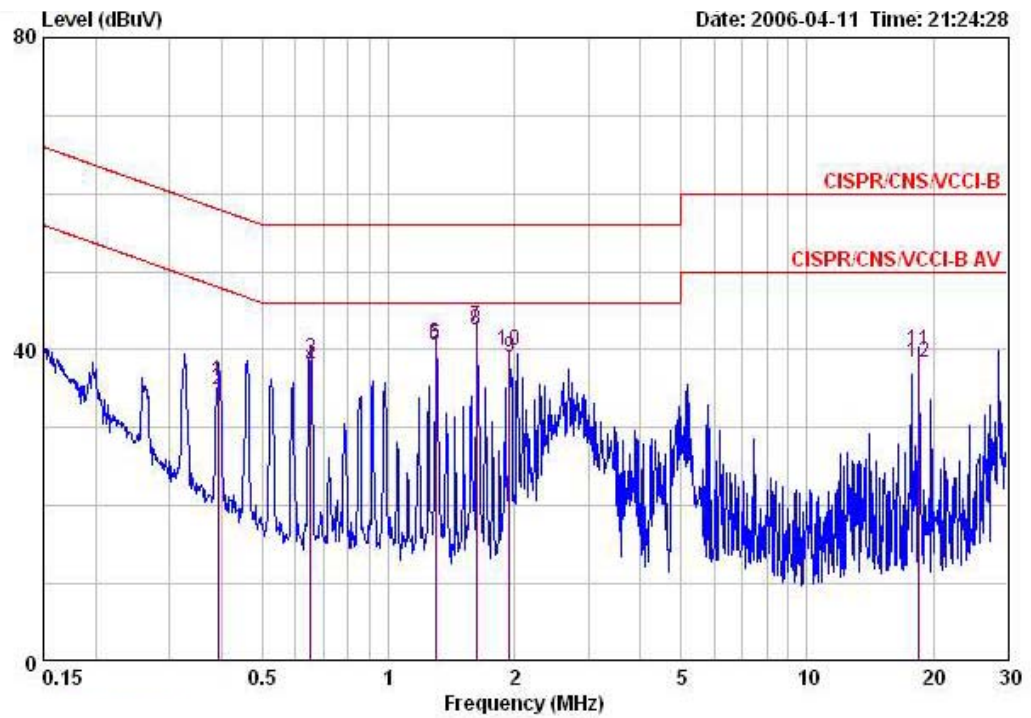
4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Phase	Line
Configuration	Normal Link / Ant. 3		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.65084	38.26	-17.74	56.00	37.66	0.40	0.20	QP
2	0.65084	37.18	-8.82	46.00	36.58	0.40	0.20	AVERAGE
3	1.298	40.22	-5.78	46.00	39.78	0.30	0.14	AVERAGE
4	1.298	40.36	-15.64	56.00	39.92	0.30	0.14	QP
5	1.624	42.74	-13.26	56.00	42.31	0.30	0.13	QP
6 @	1.624	42.20	-3.80	46.00	41.77	0.30	0.13	AVERAGE
7	1.949	39.73	-16.27	56.00	39.24	0.30	0.19	QP
8	1.949	38.78	-7.22	46.00	38.29	0.30	0.19	AVERAGE
9	18.487	40.73	-19.27	60.00	39.83	0.40	0.50	QP
10	18.487	39.19	-10.81	50.00	38.29	0.40	0.50	AVERAGE
11	28.686	34.87	-15.13	50.00	33.92	0.35	0.60	AVERAGE
12	28.686	38.95	-21.05	60.00	38.00	0.35	0.60	QP

Temperature	24°C	Humidity	64%
Test Engineer	Leo Hung	Phase	Neutral
Configuration	Normal Link / Ant. 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.39235	36.01	-22.00	58.01	35.31	0.50	0.20	QP
2	0.39235	34.79	-13.22	48.01	34.09	0.50	0.20	AVERAGE
3	0.65084	38.91	-17.09	56.00	38.41	0.30	0.20	QP
4	0.65084	37.66	-8.34	46.00	37.16	0.30	0.20	AVERAGE
5	1.298	40.50	-5.50	46.00	40.06	0.30	0.14	AVERAGE
6	1.298	40.84	-15.16	56.00	40.40	0.30	0.14	QP
7	1.623	42.93	-13.07	56.00	42.53	0.27	0.13	QP
8	1.623	42.46	-3.54	46.00	42.06	0.27	0.13	AVERAGE
9	1.949	39.07	-6.93	46.00	38.67	0.21	0.19	AVERAGE
10	1.949	39.80	-16.20	56.00	39.40	0.21	0.19	QP
11	18.488	39.90	-20.10	60.00	39.00	0.40	0.50	QP
12	18.488	38.34	-11.66	50.00	37.44	0.40	0.50	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Peak Output Power Measurement

4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi. Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

4.2.2. Measuring Instruments and Setting

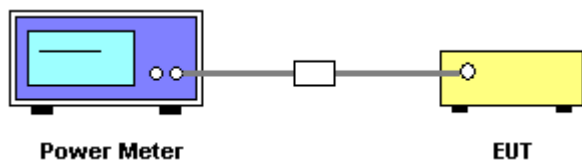
Please refer to section 5 in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Peak Sensor	NRV-Z32 (model 04)

4.2.3. Test Procedures

1. The transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the peak power value.
3. Repeat above procedures on all channels needed to be tested.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of Maximum Peak Output Power

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 1

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.50	30.00	Complies
6	2437 MHz	20.00	30.00	Complies
11	2462 MHz	19.70	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.40	30.00	Complies
6	2437 MHz	23.50	30.00	Complies
11	2462 MHz	22.10	30.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.30	28.00	Complies
157	5785 MHz	24.10	28.00	Complies
165	5825 MHz	24.10	28.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	22.10	28.00	Complies
160	5800 MHz	22.10	28.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 2

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.20	30.00	Complies
6	2437 MHz	20.00	30.00	Complies
11	2462 MHz	19.40	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.80	30.00	Complies
6	2437 MHz	23.50	30.00	Complies
11	2462 MHz	23.10	30.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.70	30.00	Complies
157	5785 MHz	24.10	30.00	Complies
165	5825 MHz	24.10	30.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	24.50	30.00	Complies
160	5800 MHz	24.30	30.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 3

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	1.40	18.00	Complies
6	2437 MHz	6.40	18.00	Complies
11	2462 MHz	5.30	18.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	8.50	18.00	Complies
6	2437 MHz	8.60	18.00	Complies
11	2462 MHz	8.20	18.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	15.76	16.00	Complies
157	5785 MHz	15.12	16.00	Complies
165	5825 MHz	15.59	16.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	15.86	16.00	Complies
160	5800 MHz	15.90	16.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 4

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.70	30.00	Complies
6	2437 MHz	17.90	30.00	Complies
11	2462 MHz	19.70	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.90	30.00	Complies
6	2437 MHz	20.00	30.00	Complies
11	2462 MHz	22.10	30.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.30	30.00	Complies
157	5785 MHz	24.10	30.00	Complies
165	5825 MHz	24.10	30.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	24.20	30.00	Complies
160	5800 MHz	24.10	30.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 5

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.50	28.00	Complies
6	2437 MHz	20.00	28.00	Complies
11	2462 MHz	18.10	28.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.90	28.00	Complies
6	2437 MHz	23.50	28.00	Complies
11	2462 MHz	21.20	28.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.30	26.00	Complies
157	5785 MHz	24.10	26.00	Complies
165	5825 MHz	24.10	26.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	24.20	26.00	Complies
160	5800 MHz	24.10	26.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 6

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.70	30.00	Complies
6	2437 MHz	20.00	30.00	Complies
11	2462 MHz	18.10	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.40	30.00	Complies
6	2437 MHz	23.50	30.00	Complies
11	2462 MHz	21.20	30.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.30	30.00	Complies
157	5785 MHz	24.10	30.00	Complies
165	5825 MHz	24.10	30.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	24.20	30.00	Complies
160	5800 MHz	24.10	30.00	Complies

4.3. Power Spectral Density Measurement

4.3.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2. Measuring Instruments and Setting

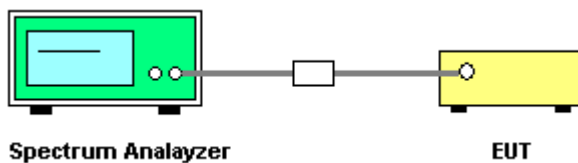
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser.
2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Power Spectral Density

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 1

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-3.95	8.00	Complies
6	2437 MHz	-1.61	8.00	Complies
11	2462 MHz	-4.91	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-5.55	8.00	Complies
6	2437 MHz	-0.82	8.00	Complies
11	2462 MHz	-3.46	8.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	0.46	8.00	Complies
157	5785 MHz	1.12	8.00	Complies
165	5825 MHz	0.05	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-3.47	8.00	Complies
160	5800 MHz	-3.24	8.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 2

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-4.93	8.00	Complies
6	2437 MHz	-2.39	8.00	Complies
11	2462 MHz	-4.54	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-2.82	8.00	Complies
6	2437 MHz	-0.47	8.00	Complies
11	2462 MHz	-4.18	8.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	-2.80	8.00	Complies
157	5785 MHz	-2.91	8.00	Complies
165	5825 MHz	-2.69	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	3.13	8.00	Complies
160	5800 MHz	2.45	8.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 3

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-21.83	8.00	Complies
6	2437 MHz	-15.85	8.00	Complies
11	2462 MHz	-17.07	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-23.91	8.00	Complies
6	2437 MHz	-17.26	8.00	Complies
11	2462 MHz	-16.71	8.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	-11.56	8.00	Complies
157	5785 MHz	-9.99	8.00	Complies
165	5825 MHz	-10.73	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-10.57	8.00	Complies
160	5800 MHz	-12.24	8.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 4

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-8.13	8.00	Complies
6	2437 MHz	-7.88	8.00	Complies
11	2462 MHz	-5.28	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-6.02	8.00	Complies
6	2437 MHz	-6.20	8.00	Complies
11	2462 MHz	-3.71	8.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	0.45	8.00	Complies
157	5785 MHz	1.12	8.00	Complies
165	5825 MHz	0.05	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-3.37	8.00	Complies
160	5800 MHz	-4.21	8.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 5

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-4.33	8.00	Complies
6	2437 MHz	-3.07	8.00	Complies
11	2462 MHz	-3.87	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-13.13	8.00	Complies
6	2437 MHz	-6.44	8.00	Complies
11	2462 MHz	-9.95	8.00	Complies

Configuration IEEE 802.11a

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	-2.88	8.00	Complies
157	5785 MHz	-3.66	8.00	Complies
165	5825 MHz	-4.40	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-4.08	8.00	Complies
160	5800 MHz	-4.18	8.00	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g /Ant. 6

Configuration IEEE 802.11b

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-3.07	8.00	Complies
6	2437 MHz	-4.97	8.00	Complies
11	2462 MHz	-5.98	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-11.14	8.00	Complies
6	2437 MHz	-5.50	8.00	Complies
11	2462 MHz	-10.13	8.00	Complies

Configuration IEEE 802.11a

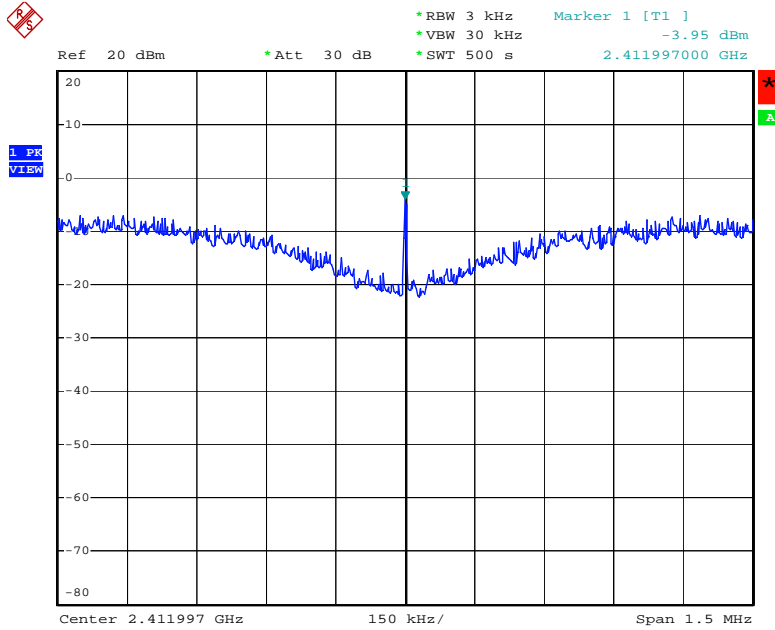
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	-4.90	8.00	Complies
157	5785 MHz	-3.79	8.00	Complies
165	5825 MHz	-4.37	8.00	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
152	5760 MHz	-4.08	8.00	Complies
160	5800 MHz	-4.18	8.00	Complies

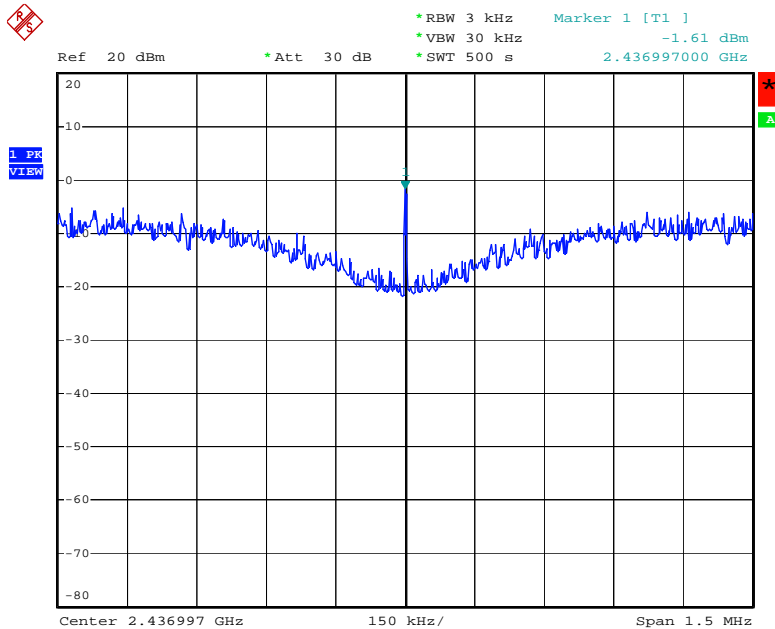
For Ant. 1

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



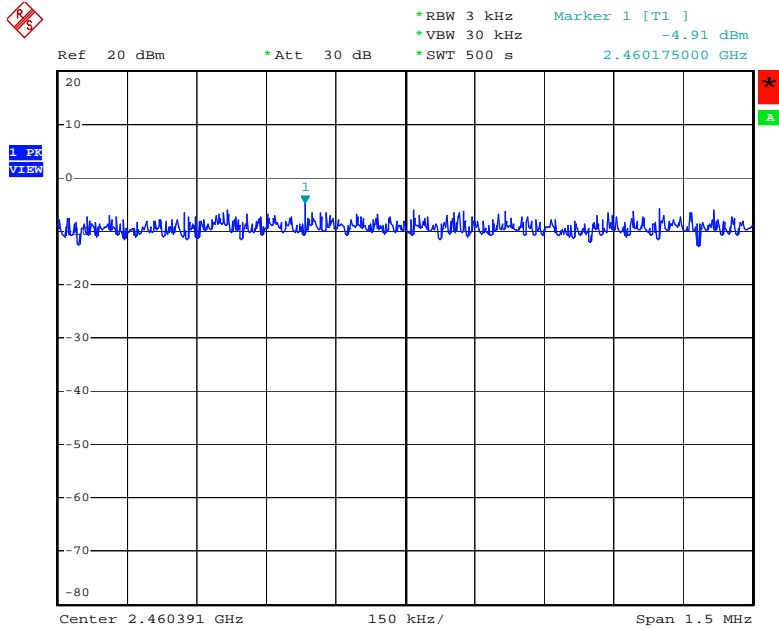
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Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



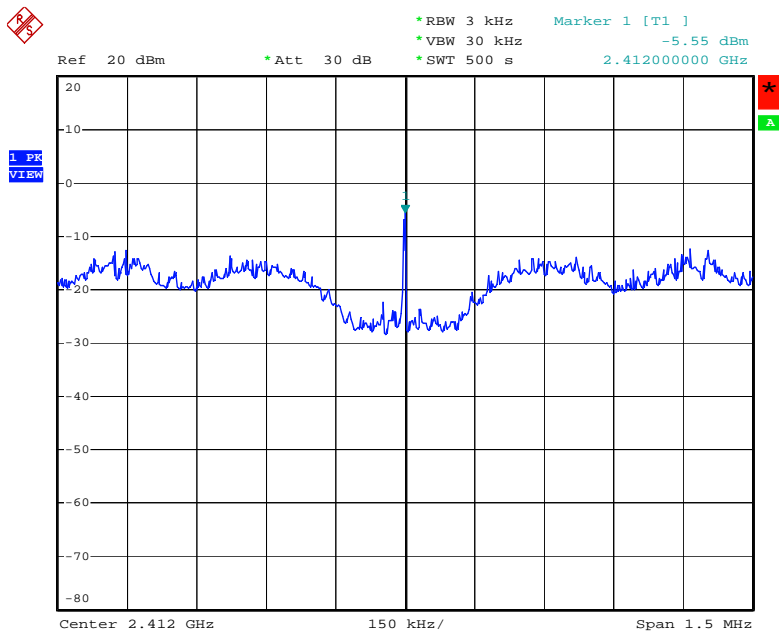
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Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



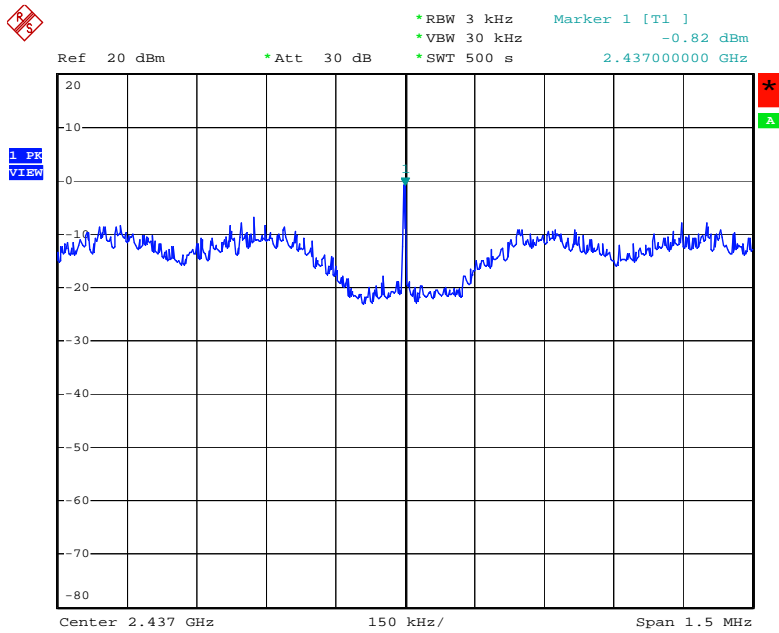
Date: 27.APR.2006 00:47:02

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



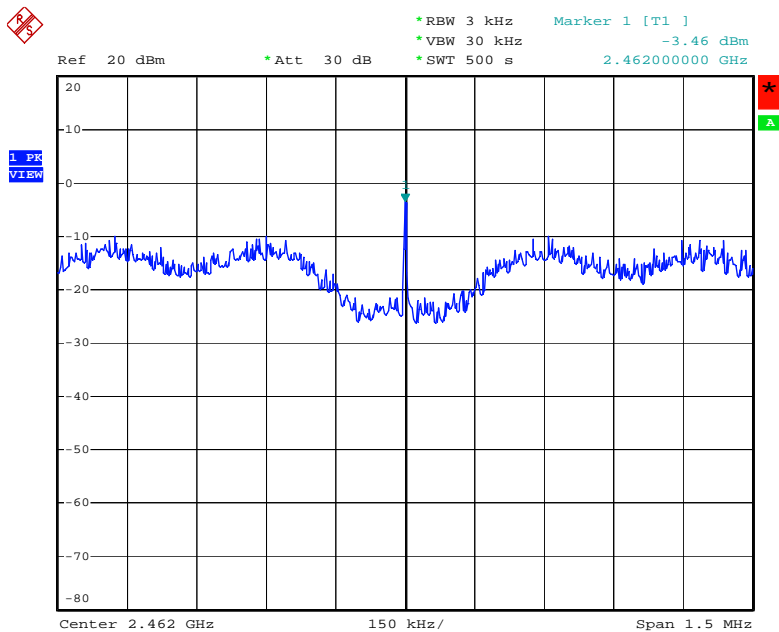
Date: 5.MAY.2006 09:09:10

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



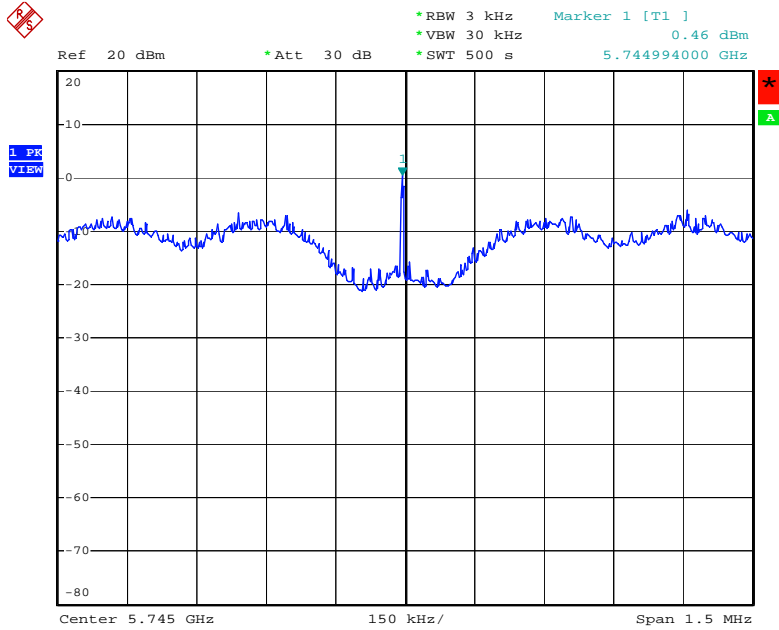
Date: 5.MAY.2006 09:09:59

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



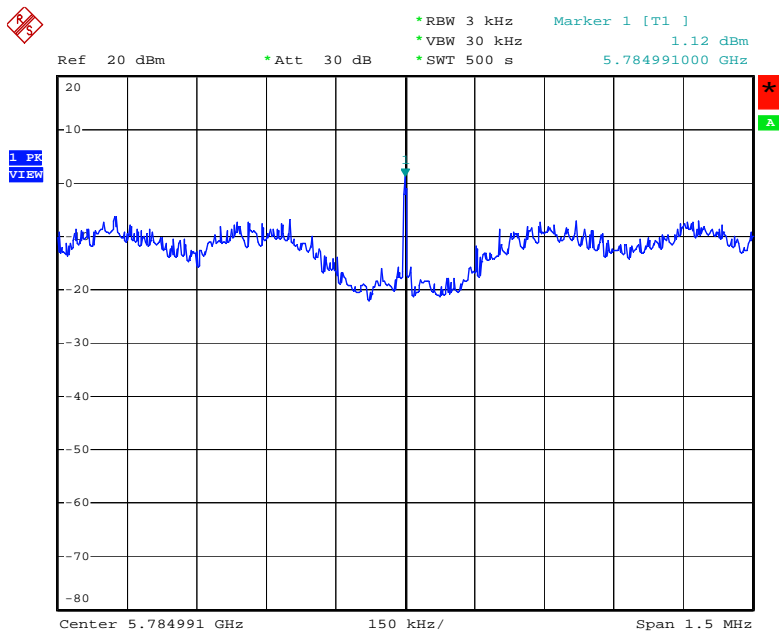
Date: 27.APR.2006 00:10:05

Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



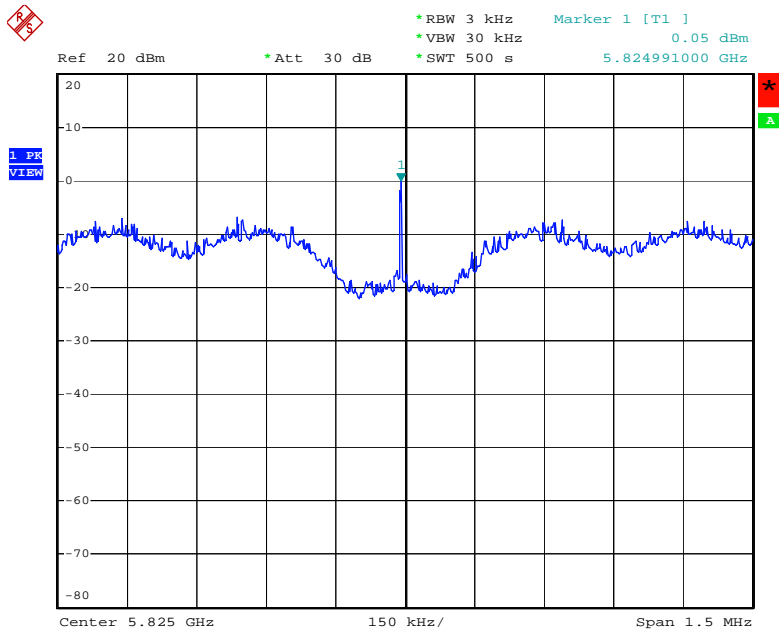
Date: 5.MAY.2006 09:15:32

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



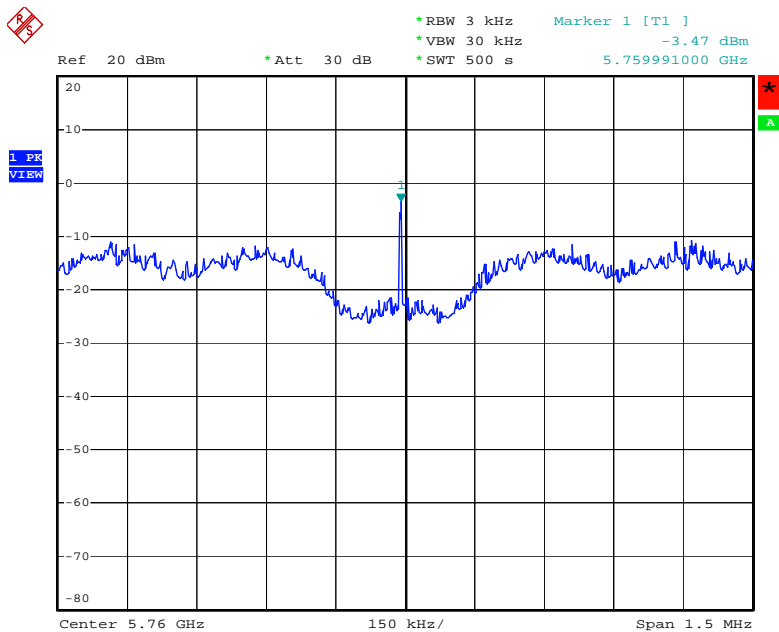
Date: 5.MAY.2006 09:17:20

Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



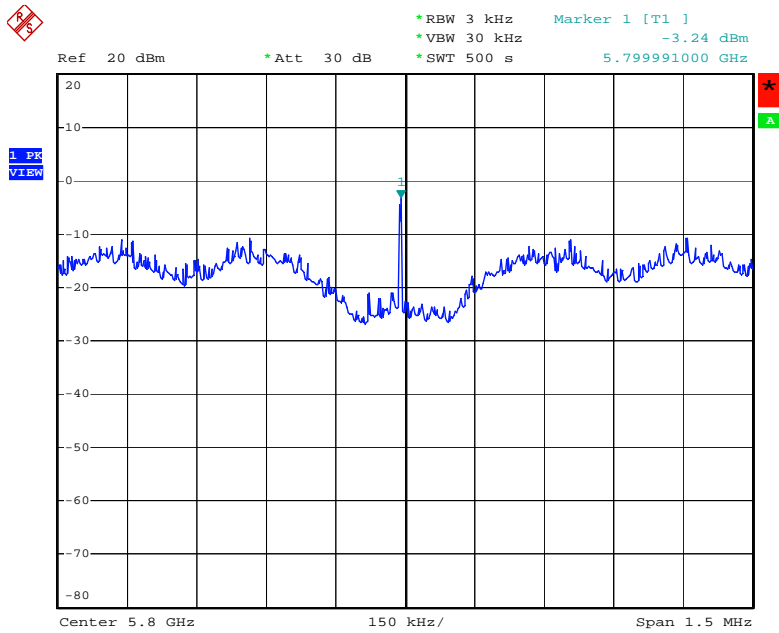
Date: 5.MAY.2006 09:17:48

Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 09:19:03

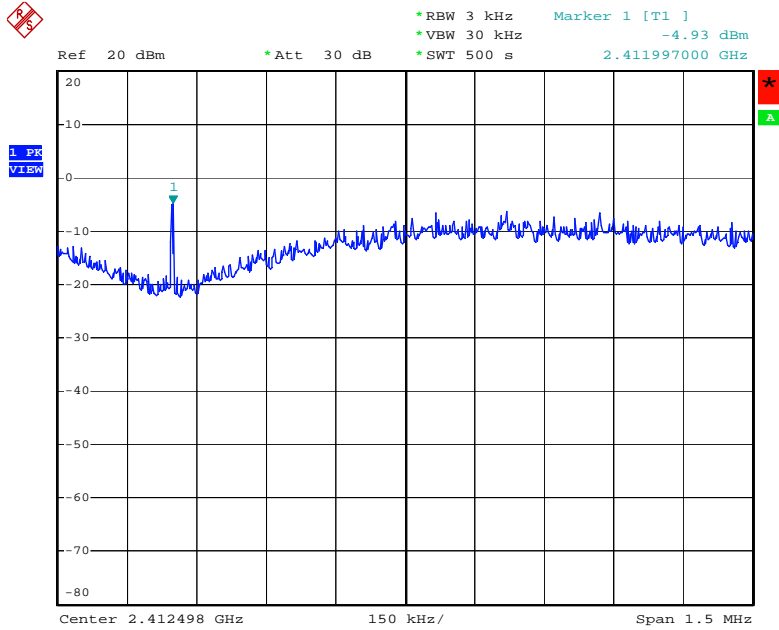
Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 09:18:35

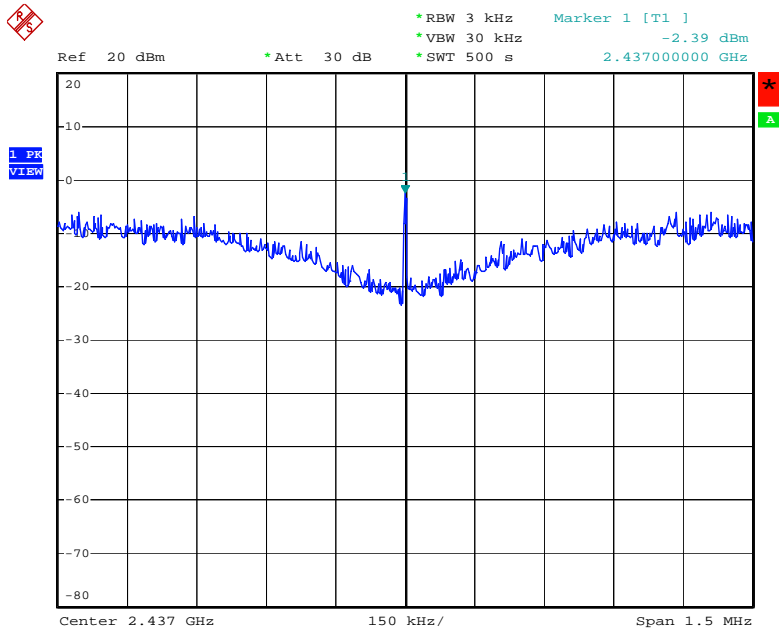
For Ant. 2

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



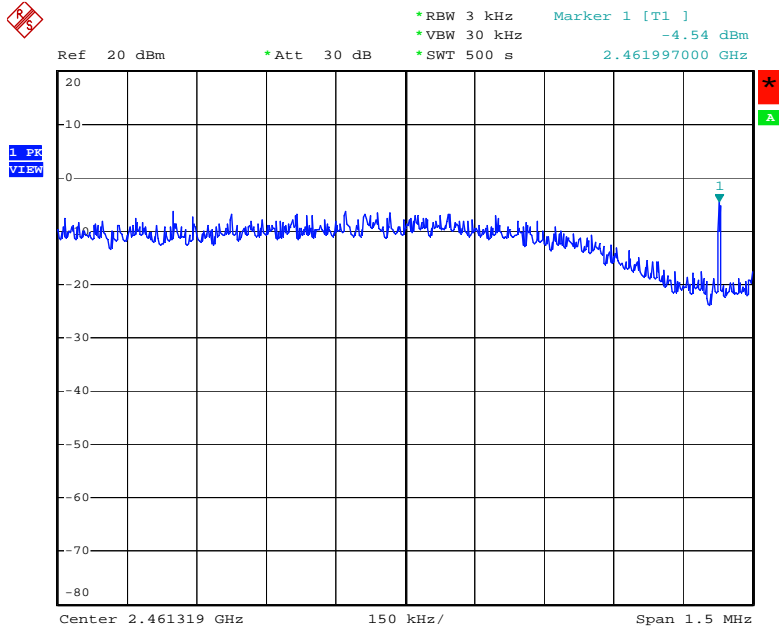
Date: 5.MAY.2006 19:34:58

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



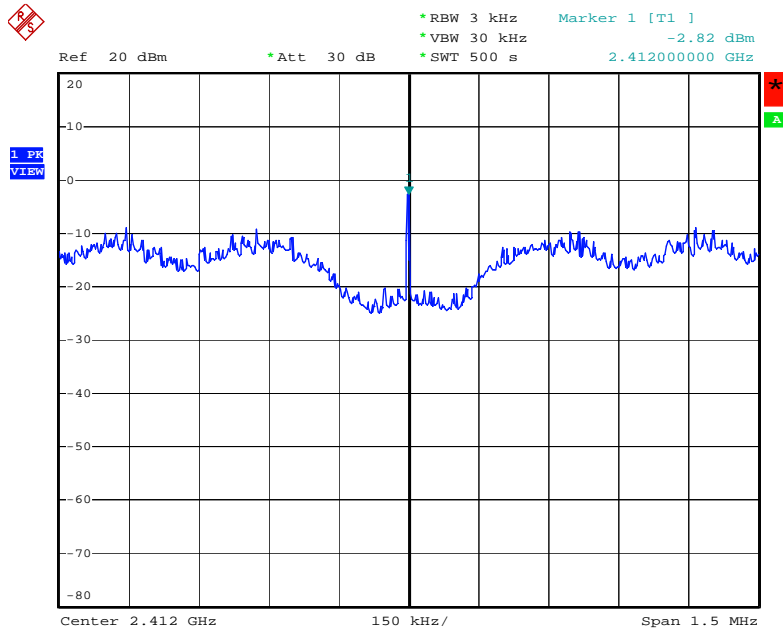
Date: 4.MAY.2006 09:23:28

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



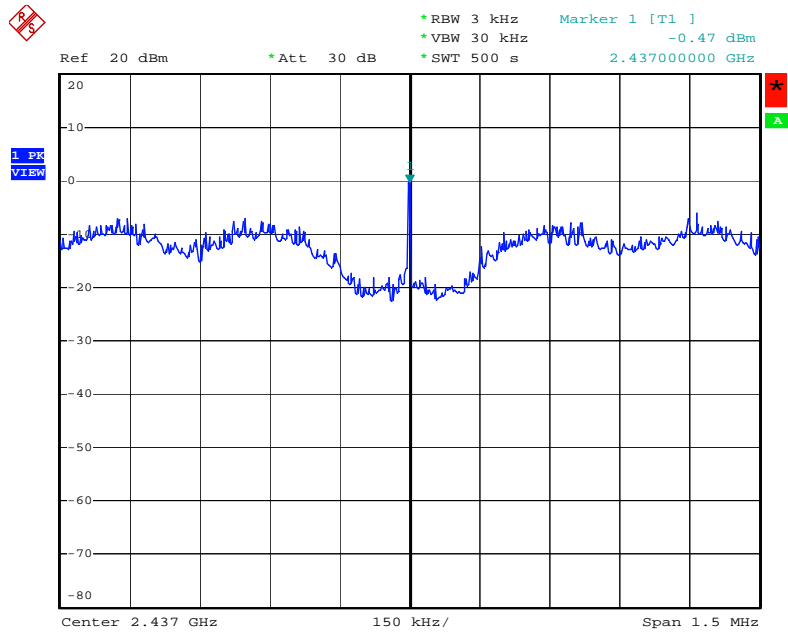
Date: 5.MAY.2006 19:36:10

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



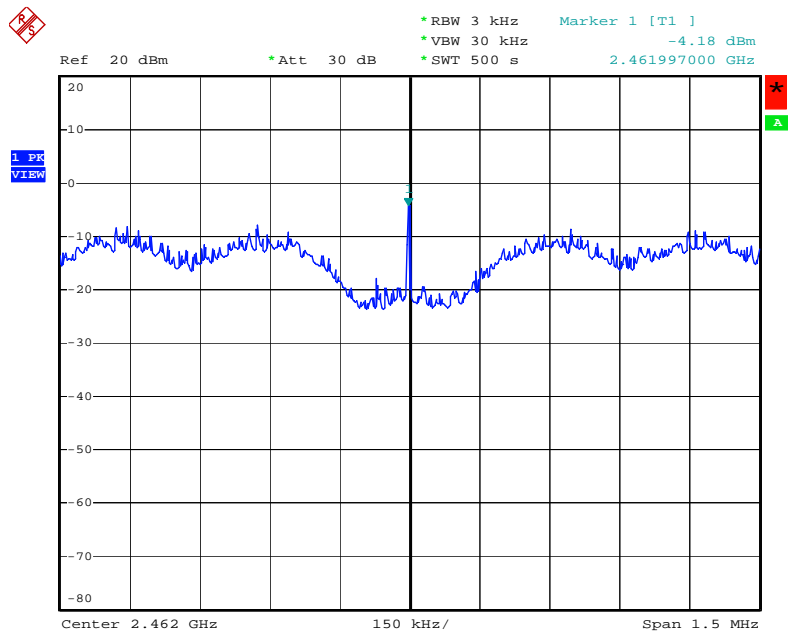
Date: 4.MAY.2006 09:59:09

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



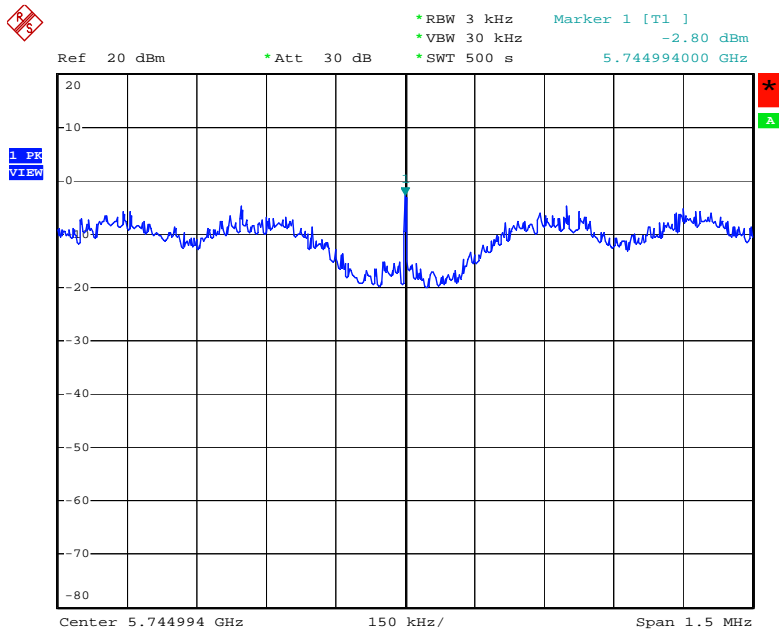
Date: 4.MAY.2006 09:58:16

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



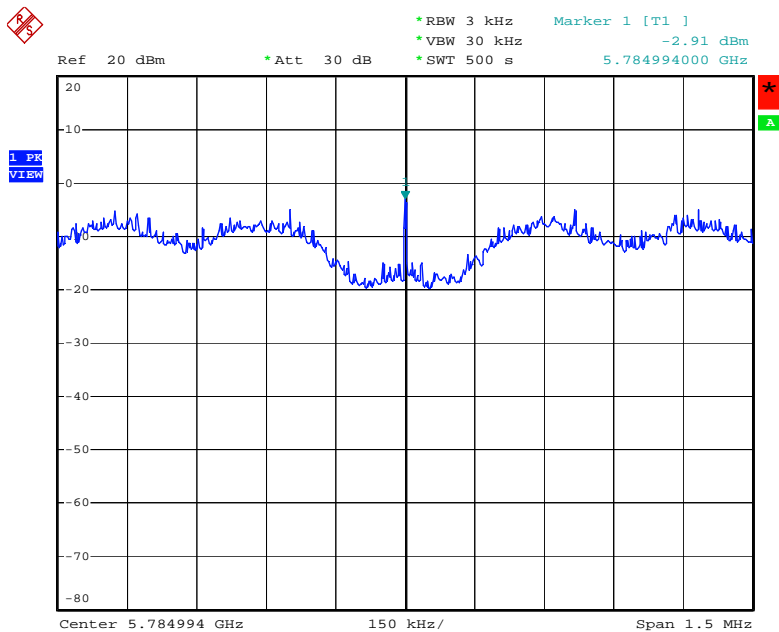
Date: 4.MAY.2006 10:00:59

Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



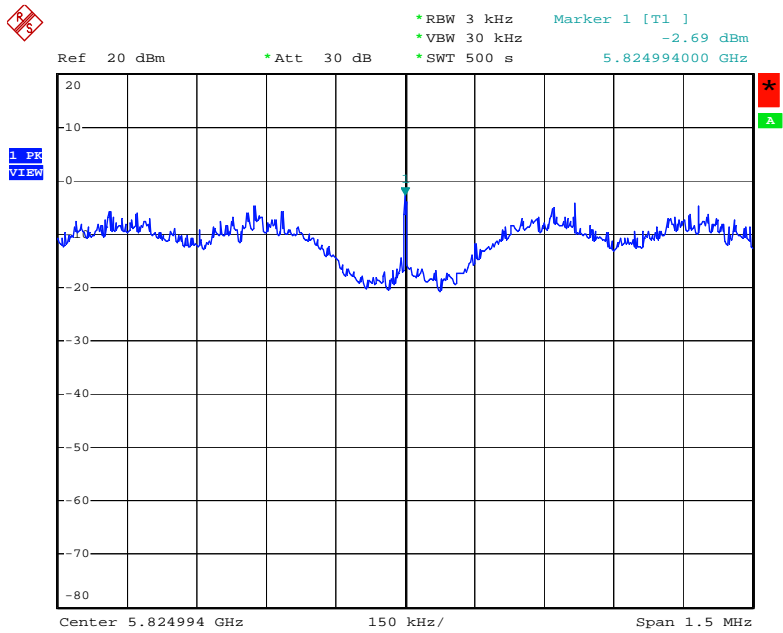
Date: 27.APR.2006 23:37:46

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



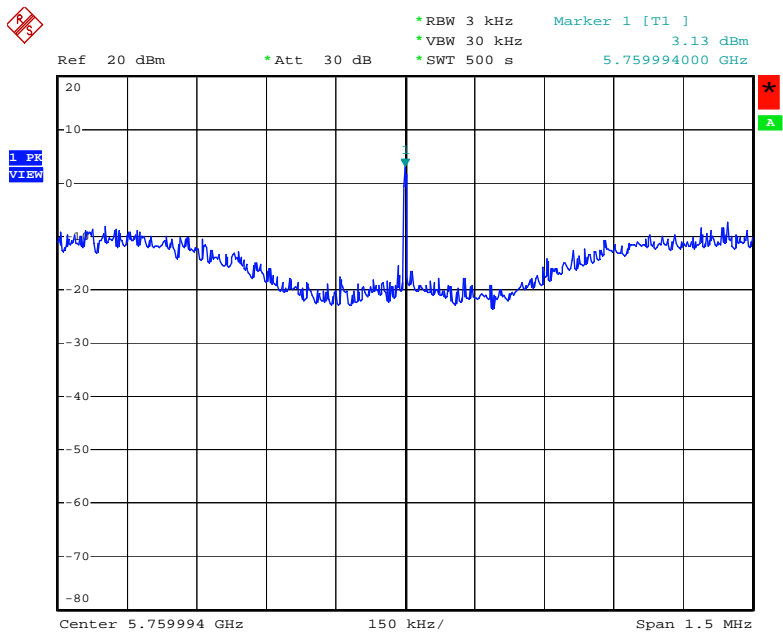
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Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



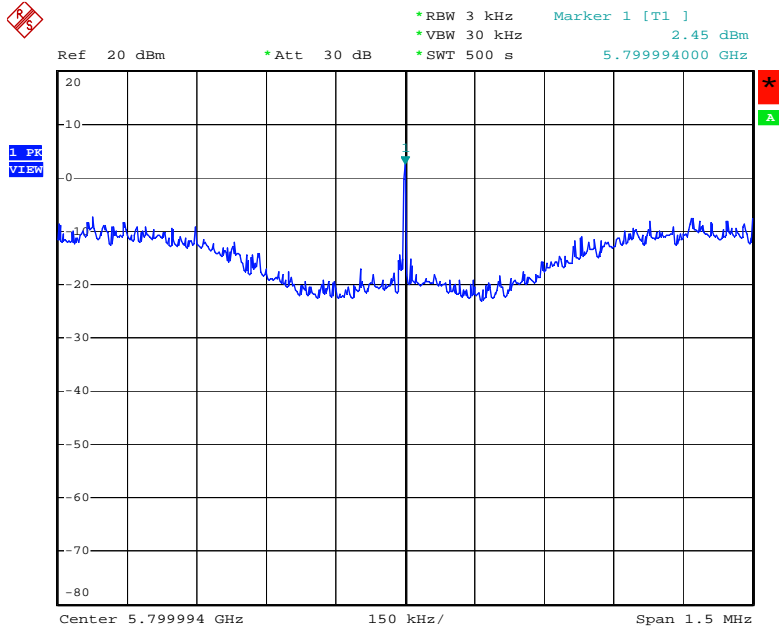
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Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 27.APR.2006 23:27:16

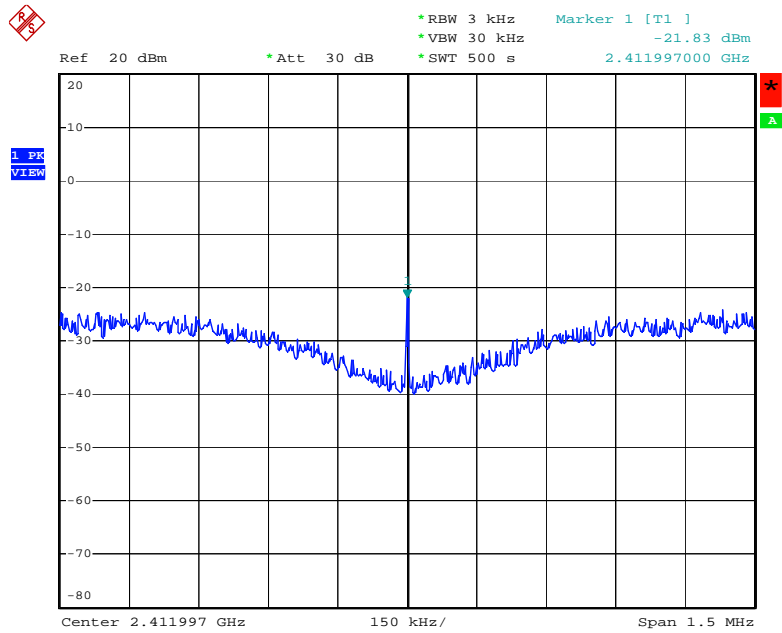
Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 27.APR.2006 23:26:37

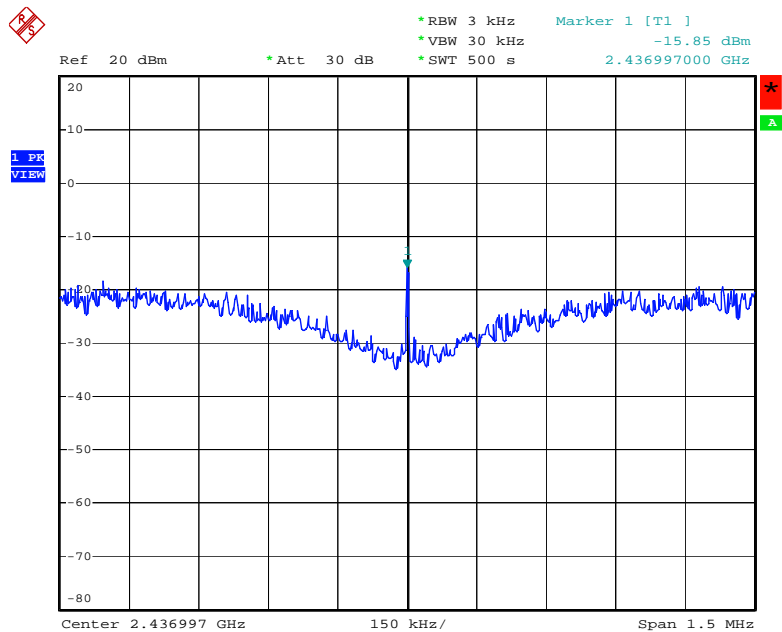
For Ant. 3

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



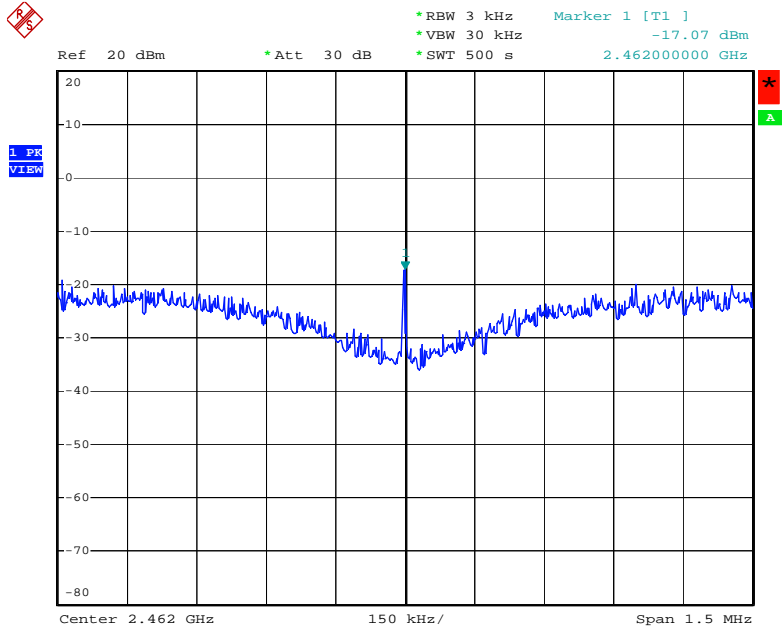
Date: 27.APR.2006 00:37:36

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



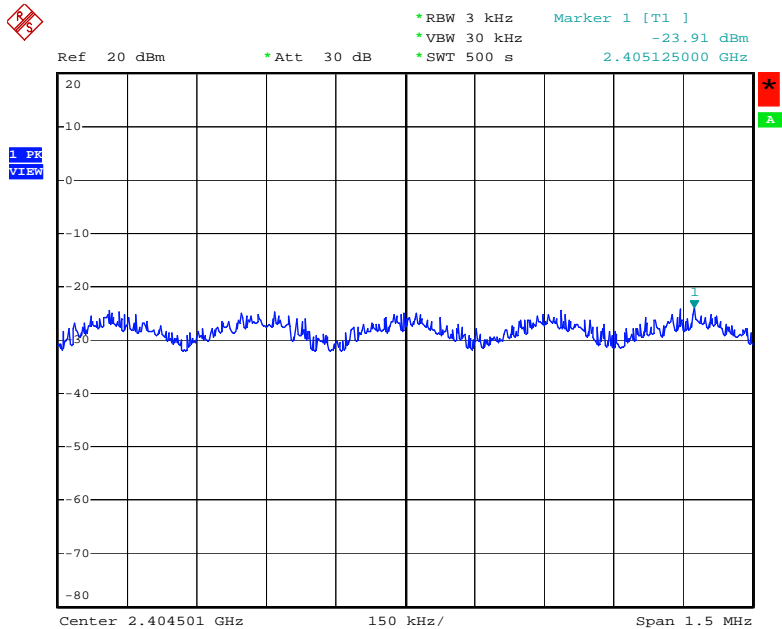
Date: 27.APR.2006 00:40:21

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



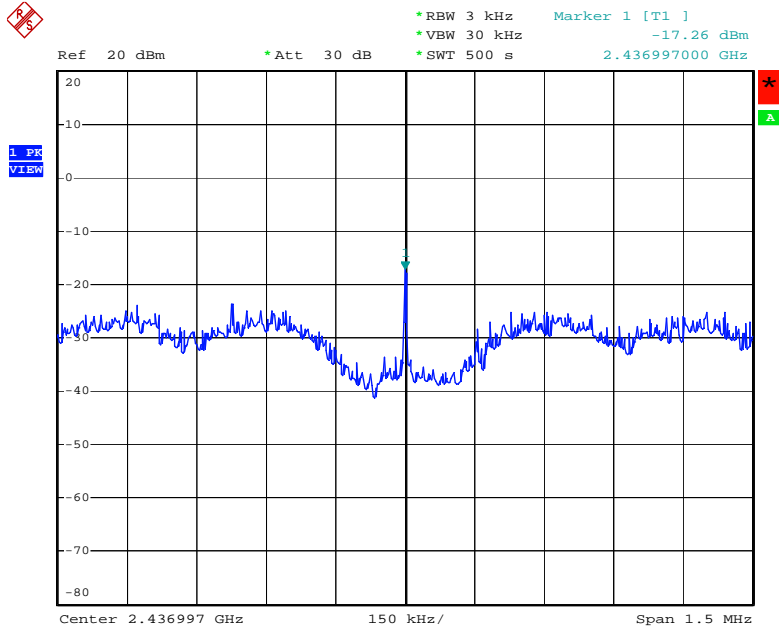
Date: 27.APR.2006 00:36:30

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



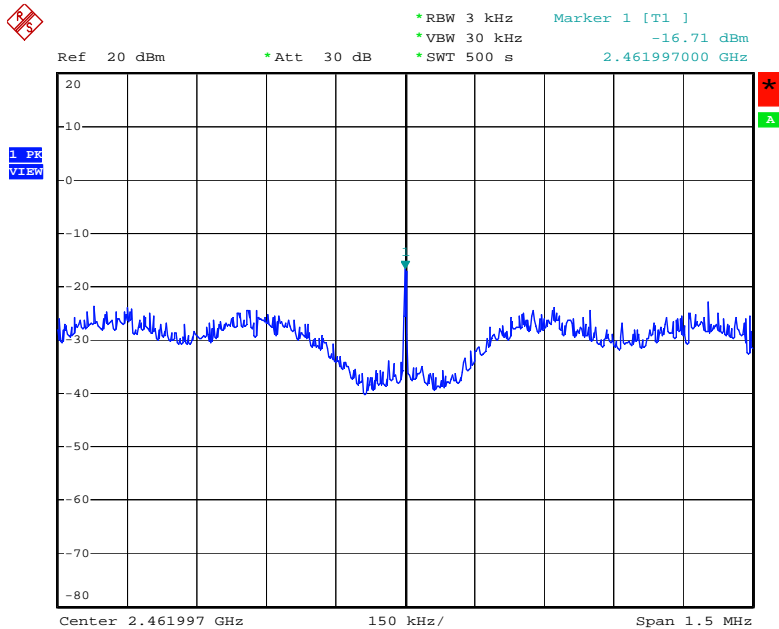
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Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



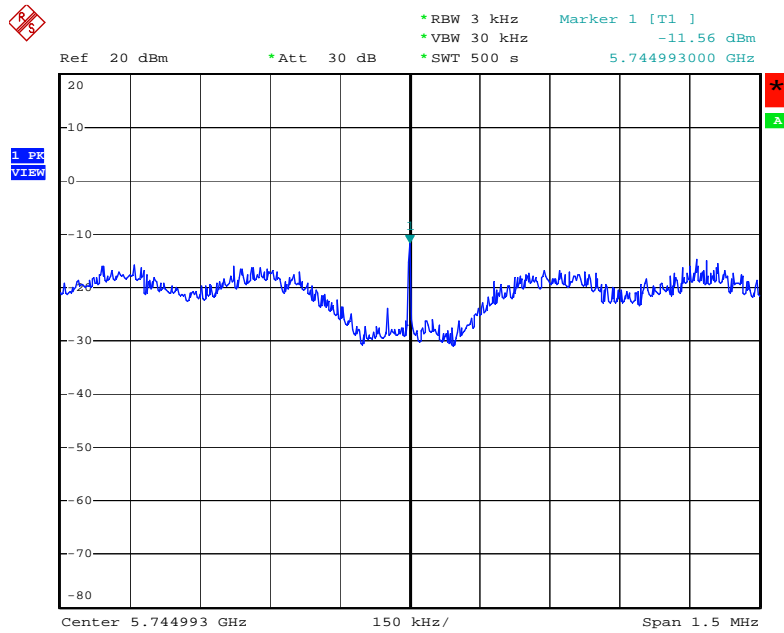
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Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



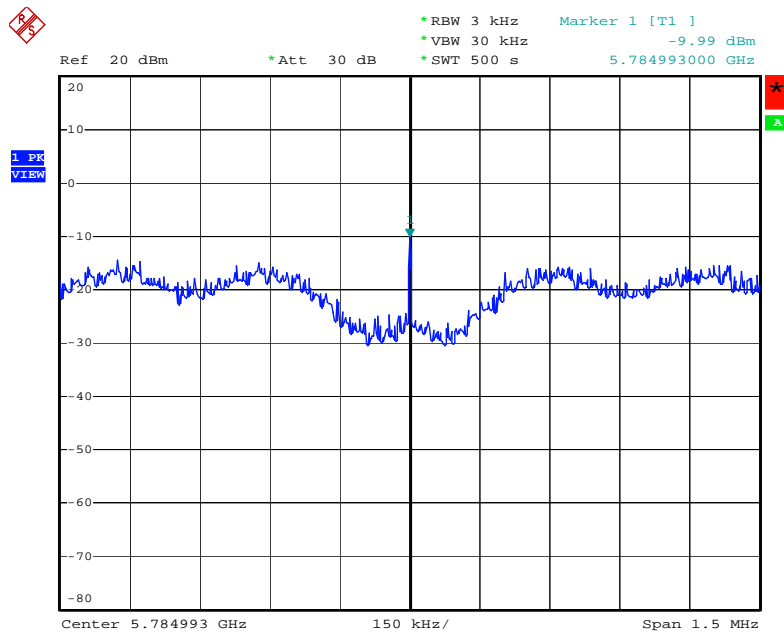
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Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



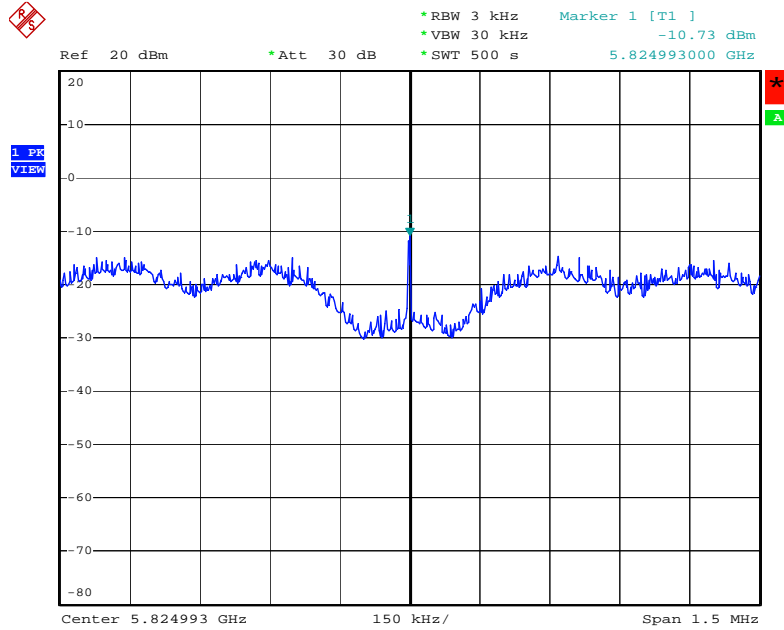
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Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



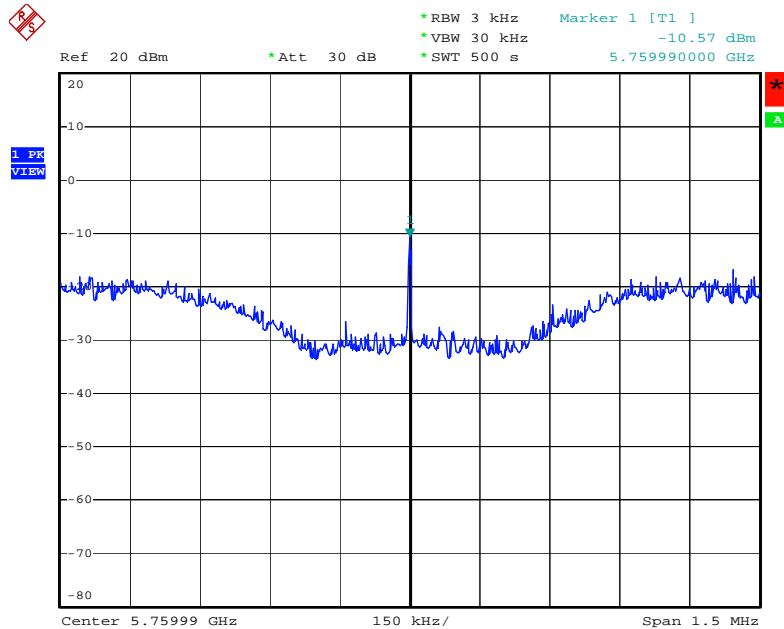
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Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



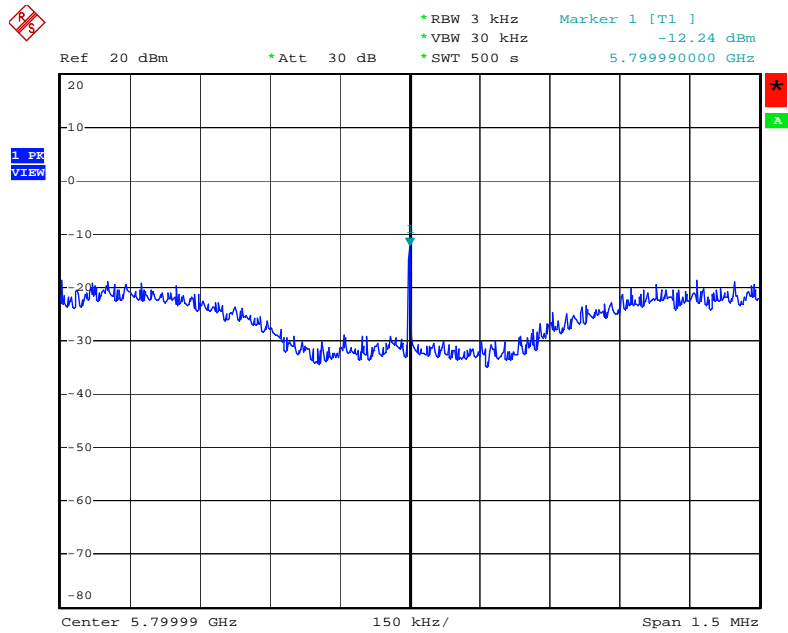
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Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 8.JUN.2006 19:59:08

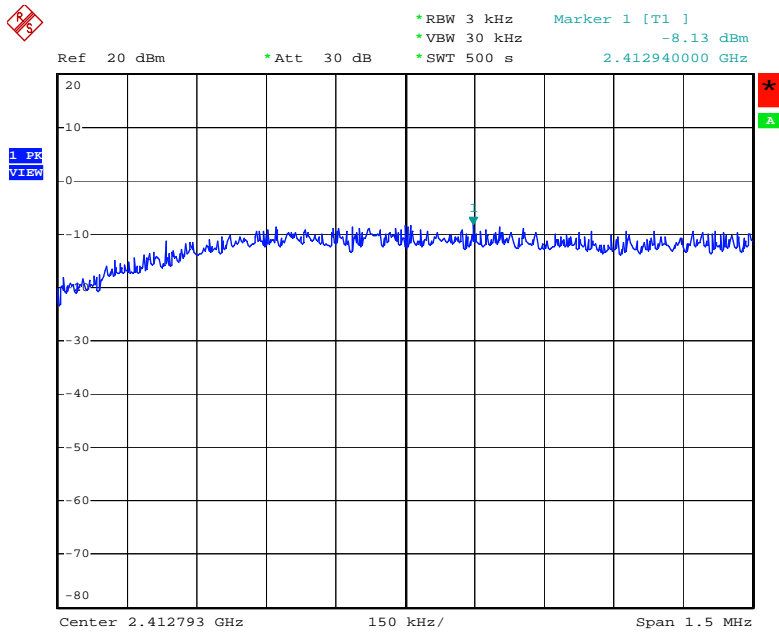
Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 8.JUN.2006 19:58:04

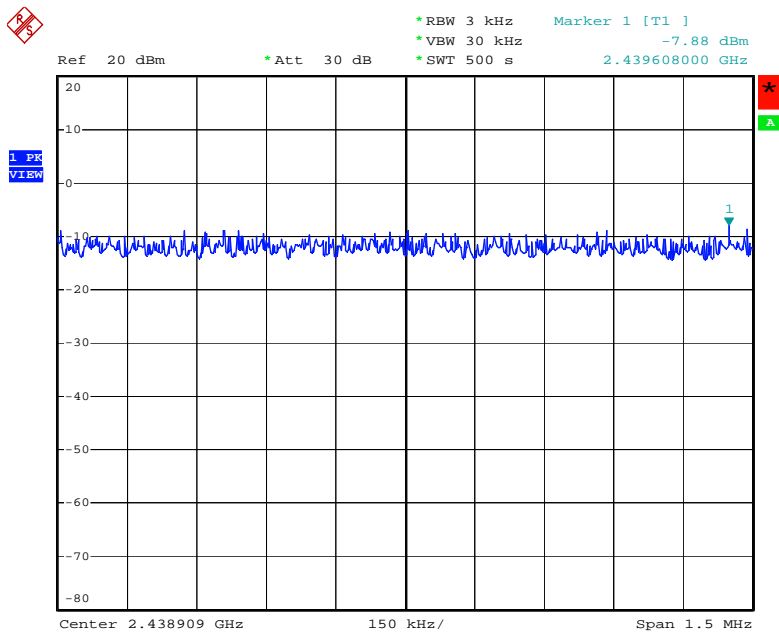
For Ant. 4

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



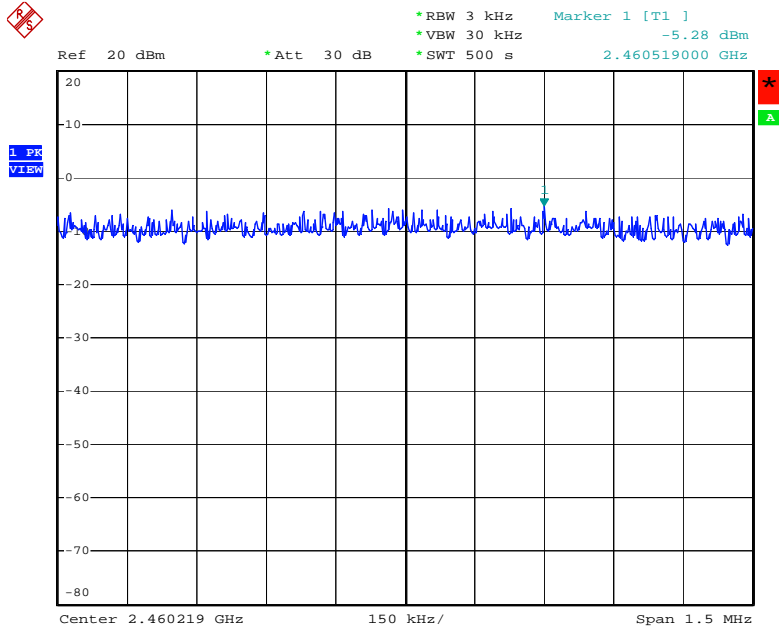
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Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



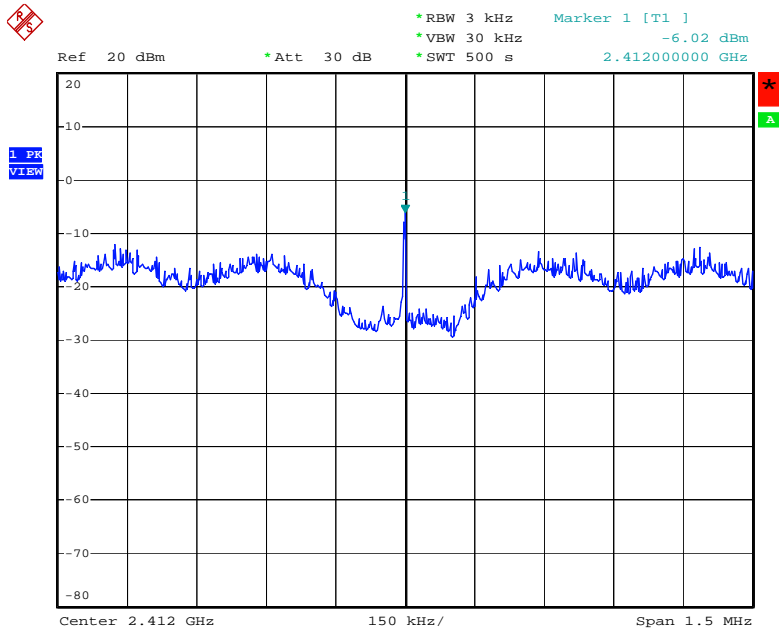
Date: 27.APR.2006 00:51:26

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



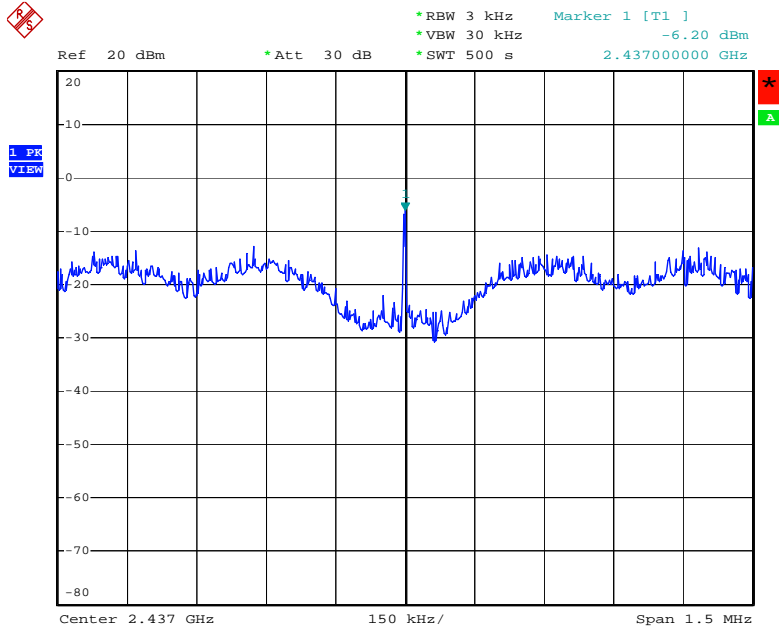
Date: 27.APR.2006 00:53:37

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



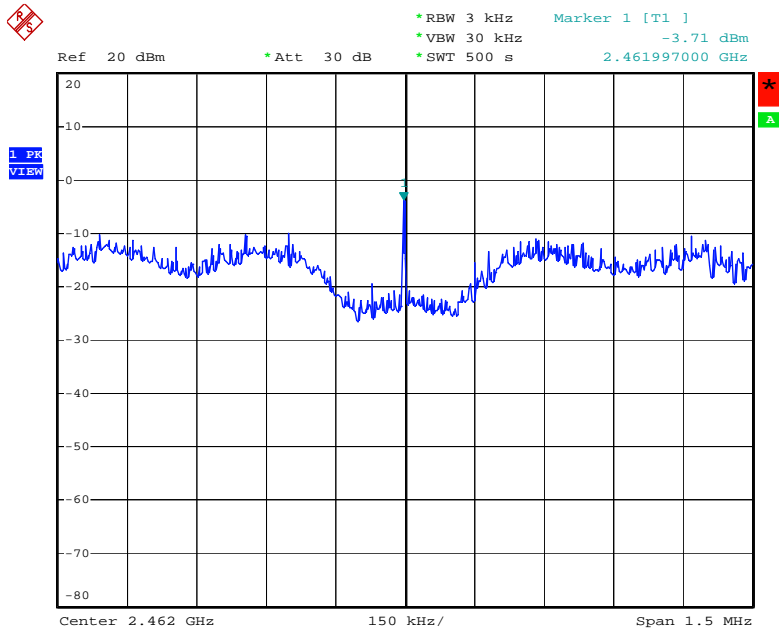
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Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



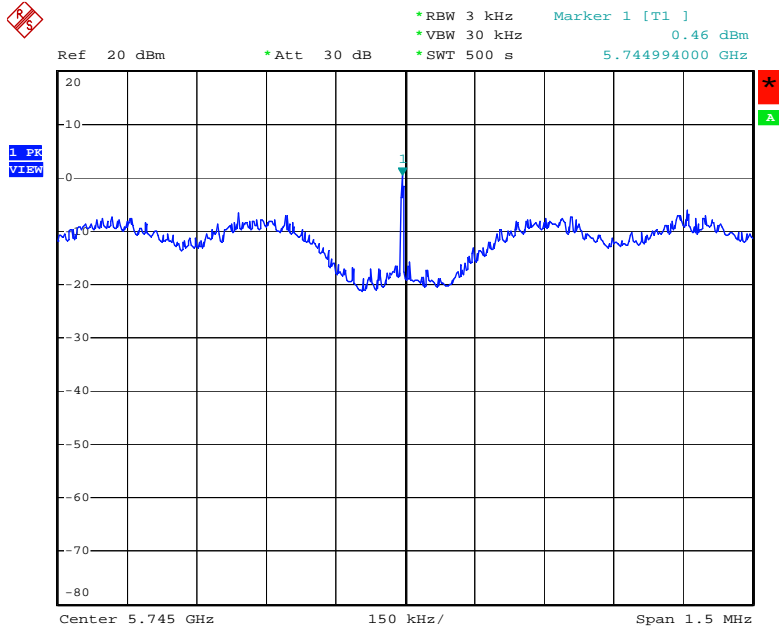
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Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



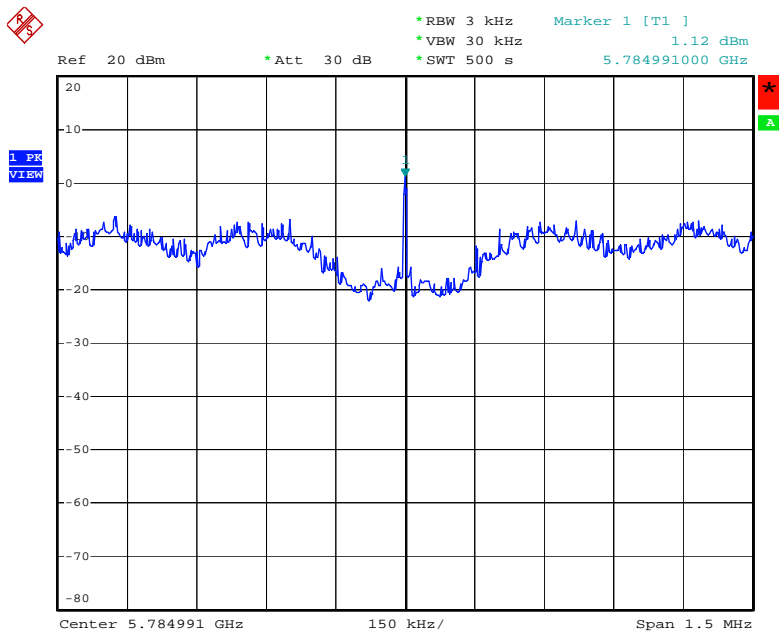
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Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



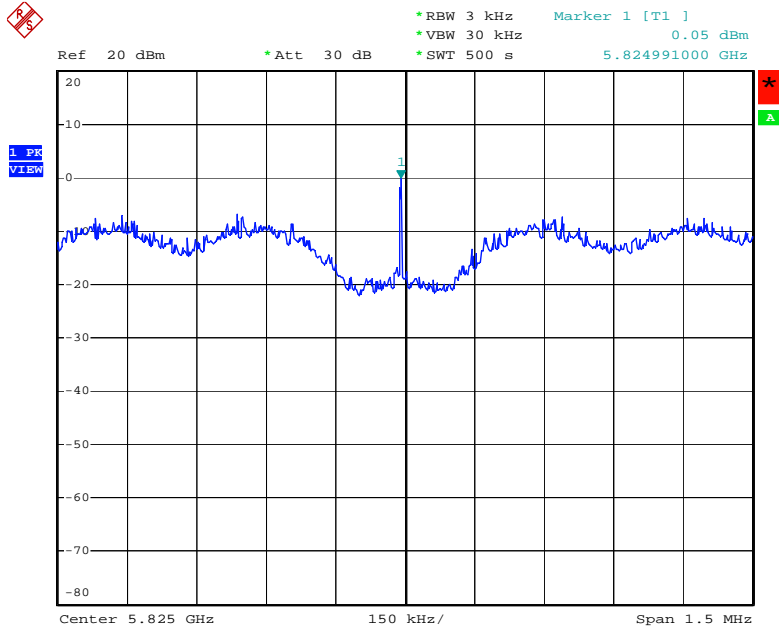
Date: 5.MAY.2006 09:15:32

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



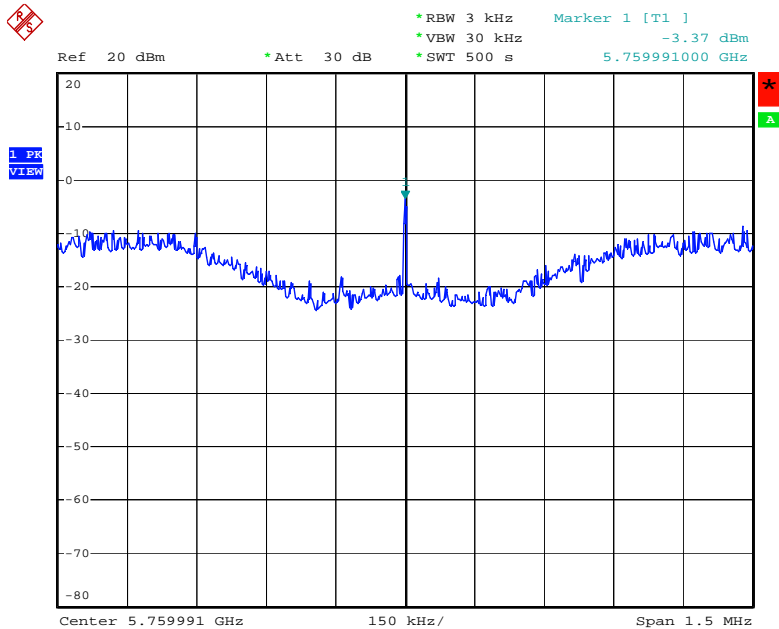
Date: 5.MAY.2006 09:17:20

Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



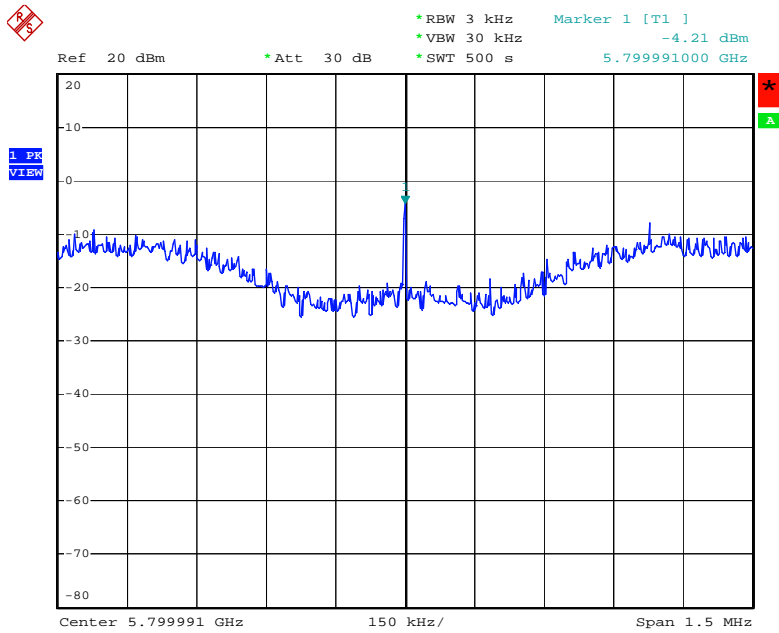
Date: 5.MAY.2006 09:17:48

Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 20:42:55

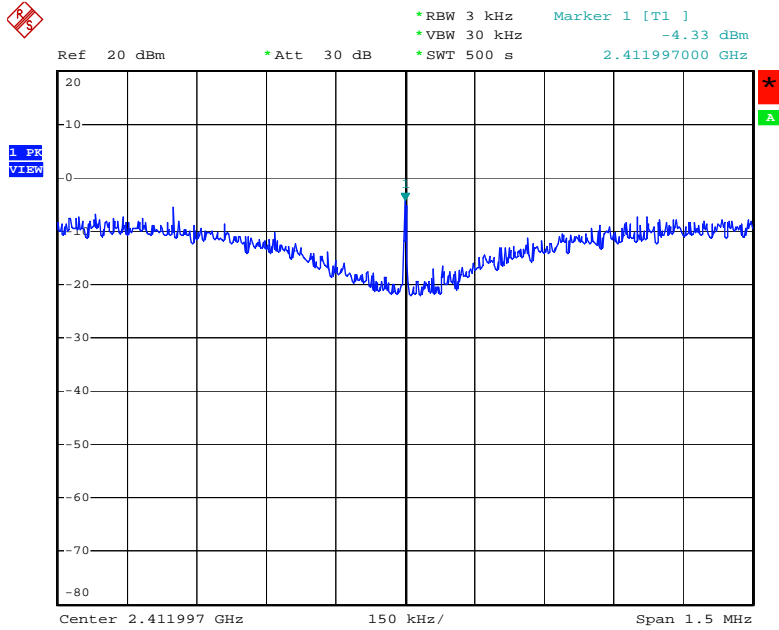
Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 20:43:20

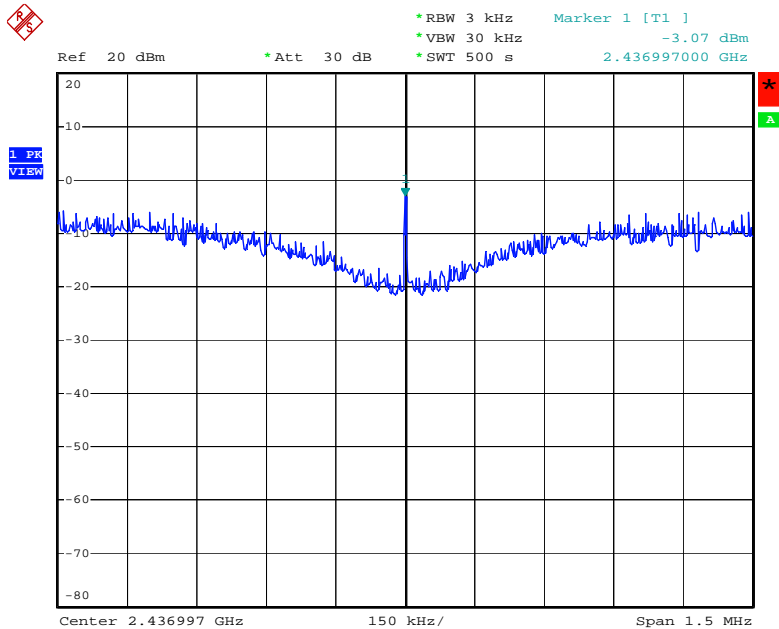
For Ant. 5

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



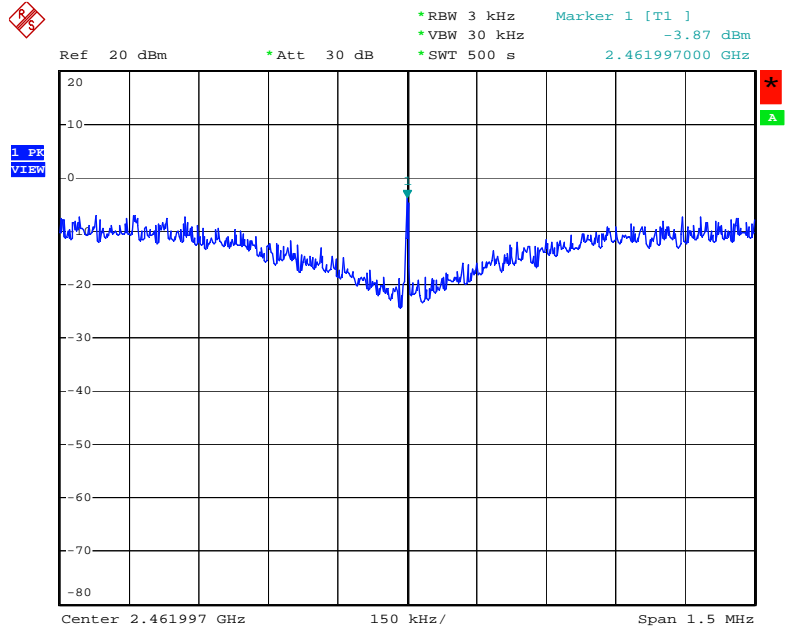
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Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



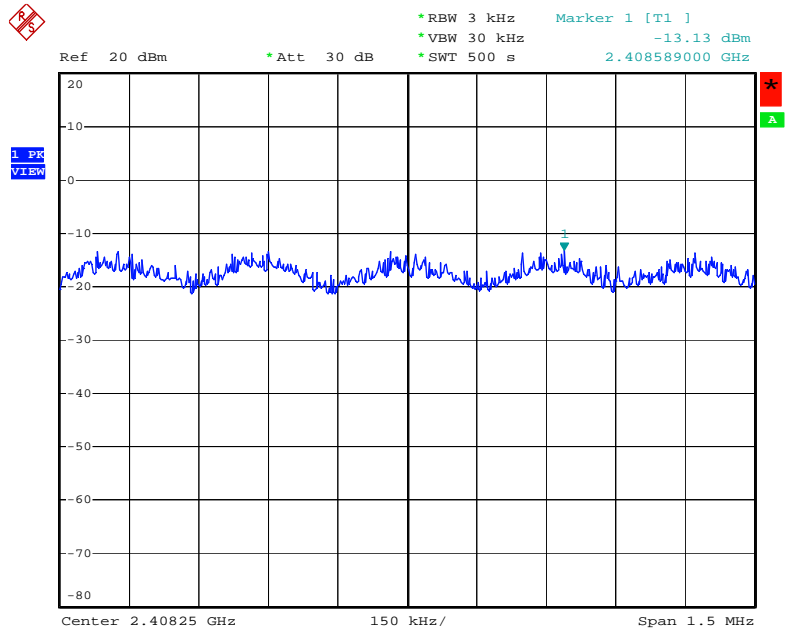
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Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



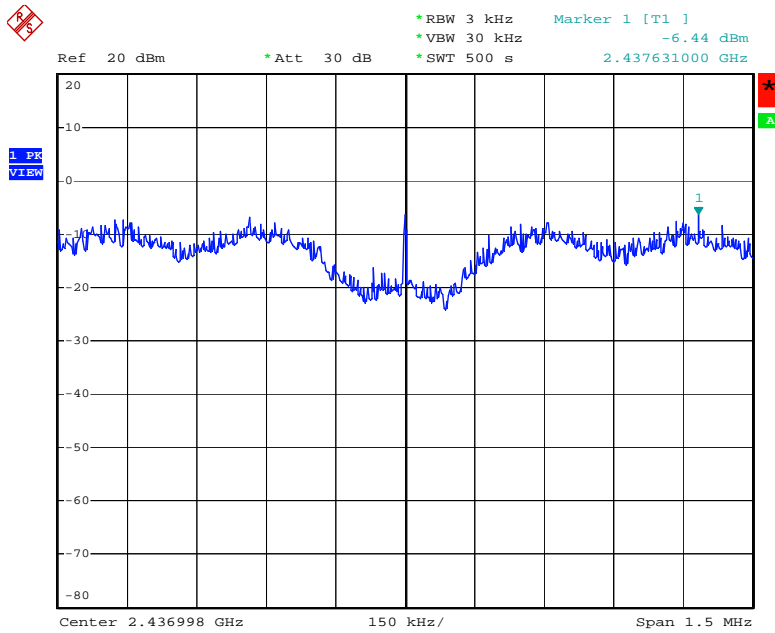
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Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



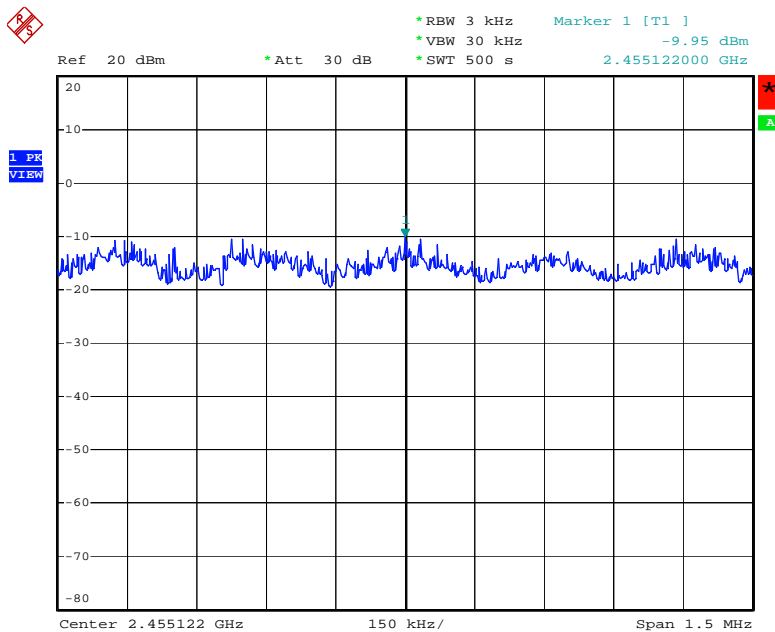
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Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



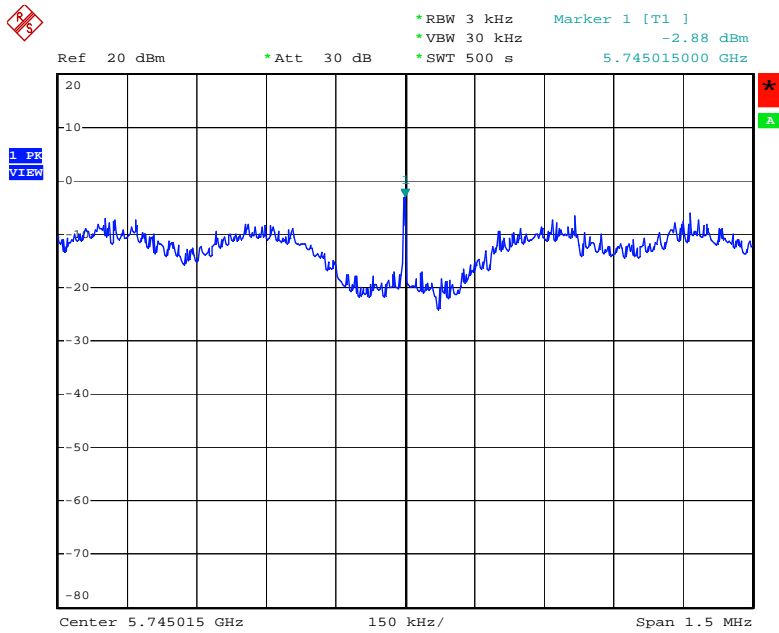
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Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



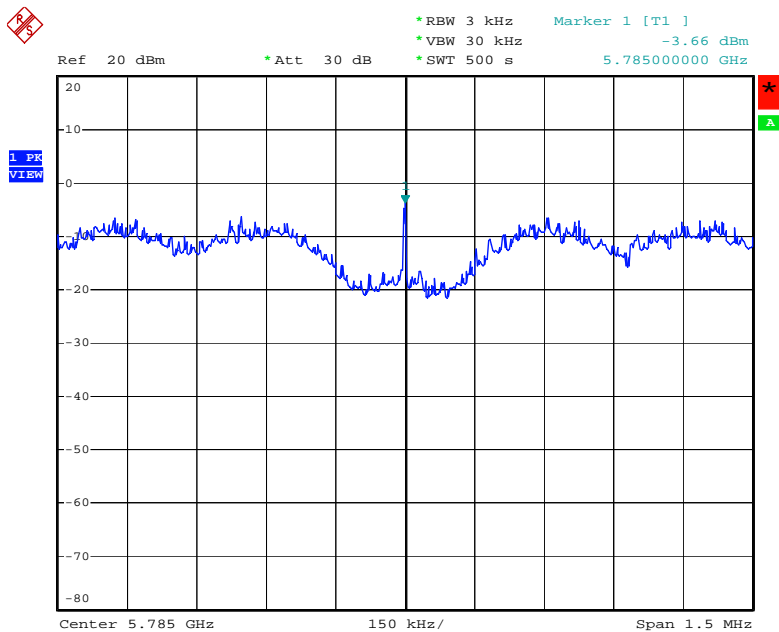
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Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



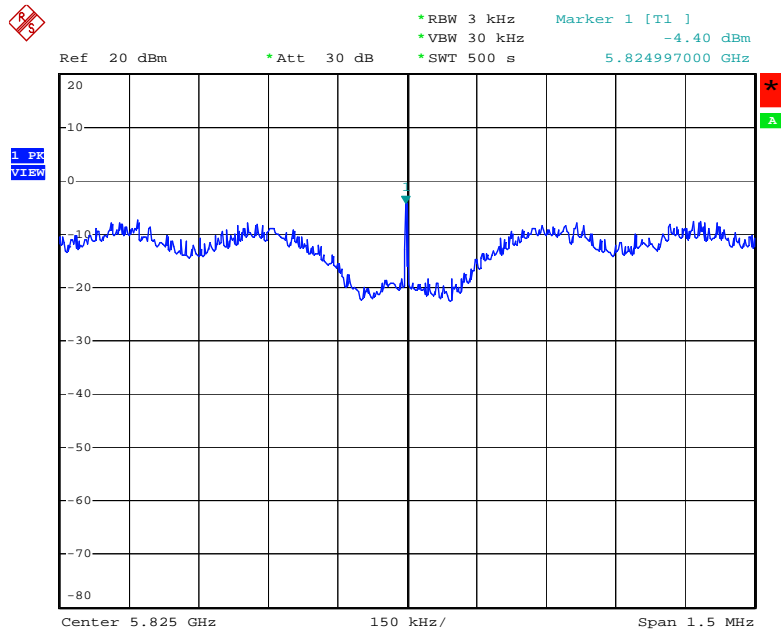
Date: 5.MAY.2006 18:44:06

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



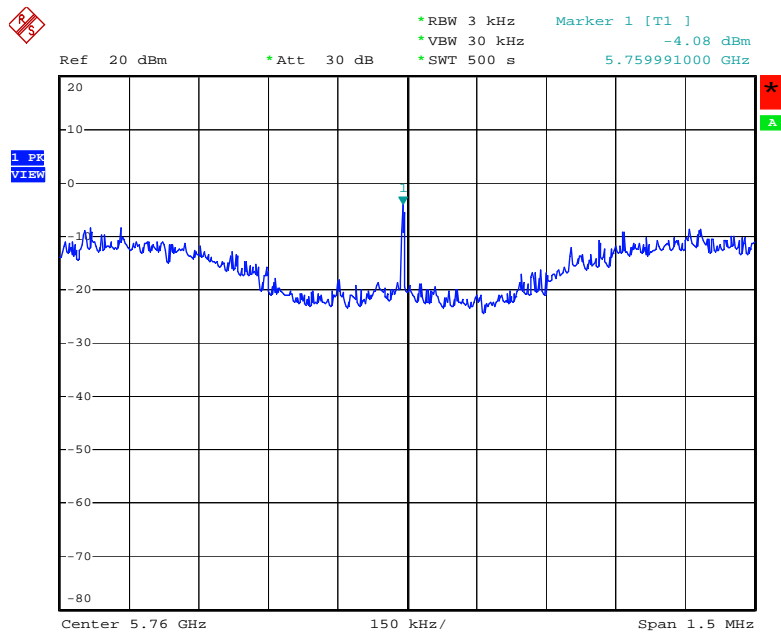
Date: 5.MAY.2006 18:46:51

Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



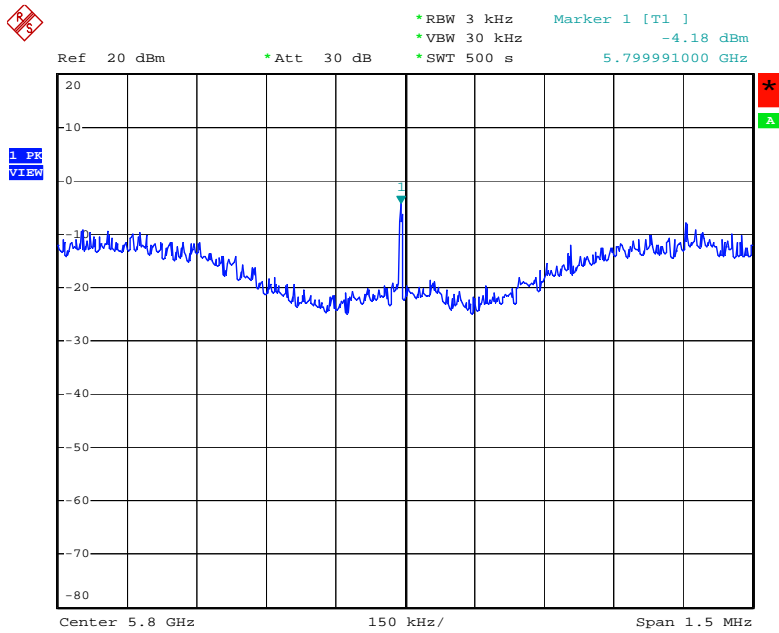
Date: 5.MAY.2006 18:47:16

Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 22:06:17

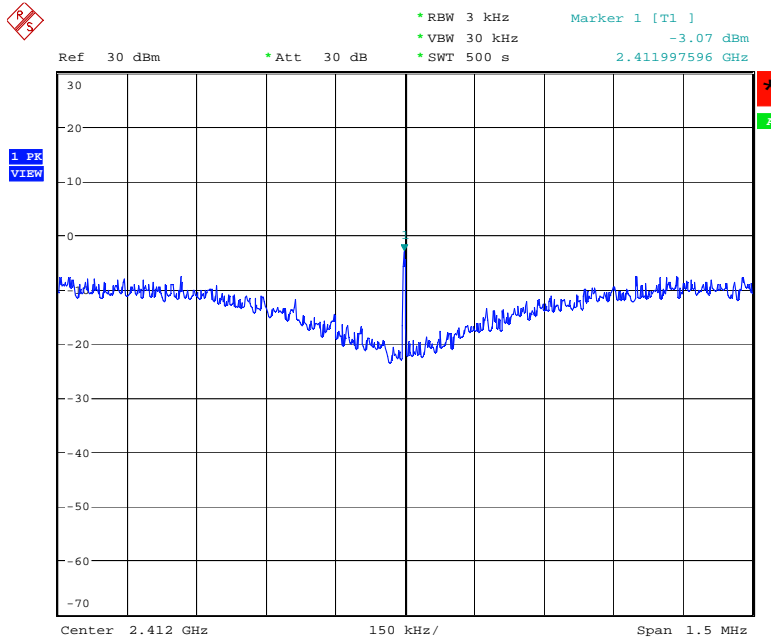
Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 22:06:44

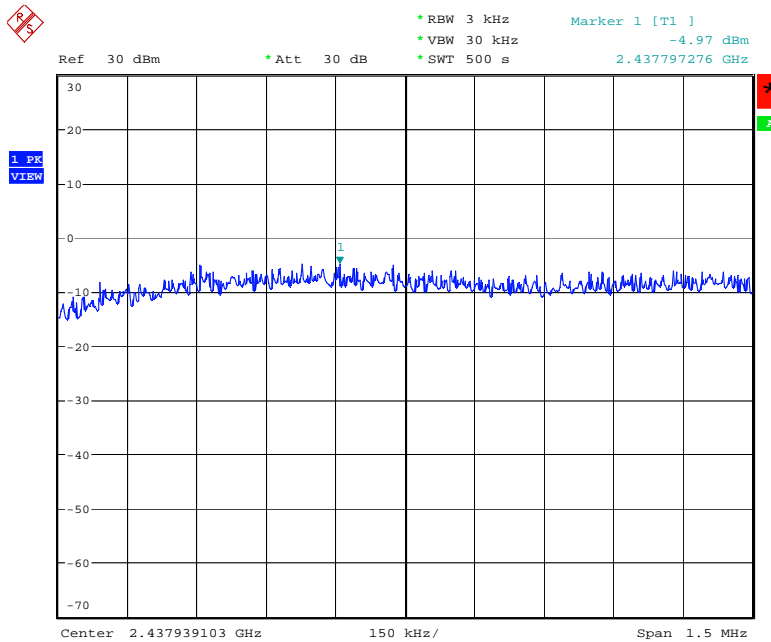
For Ant. 6

Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



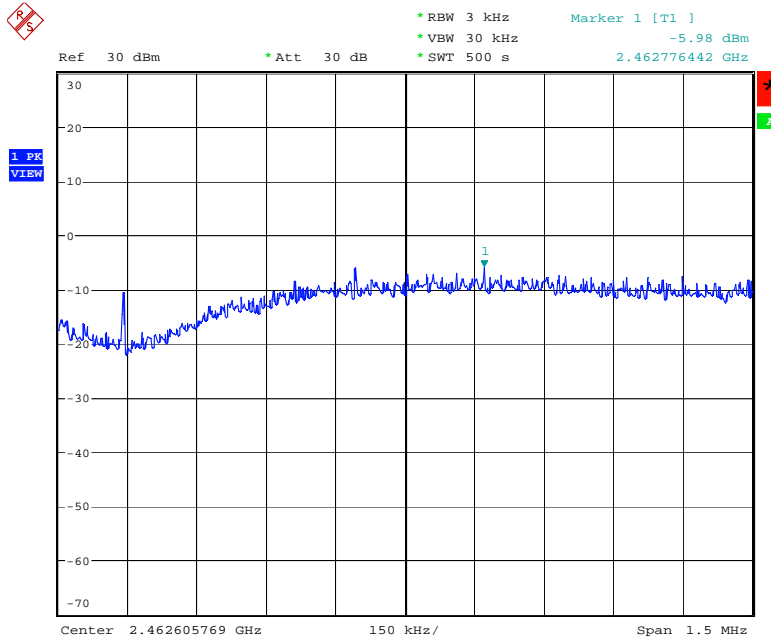
Date: 8.MAY.2006 12:02:51

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



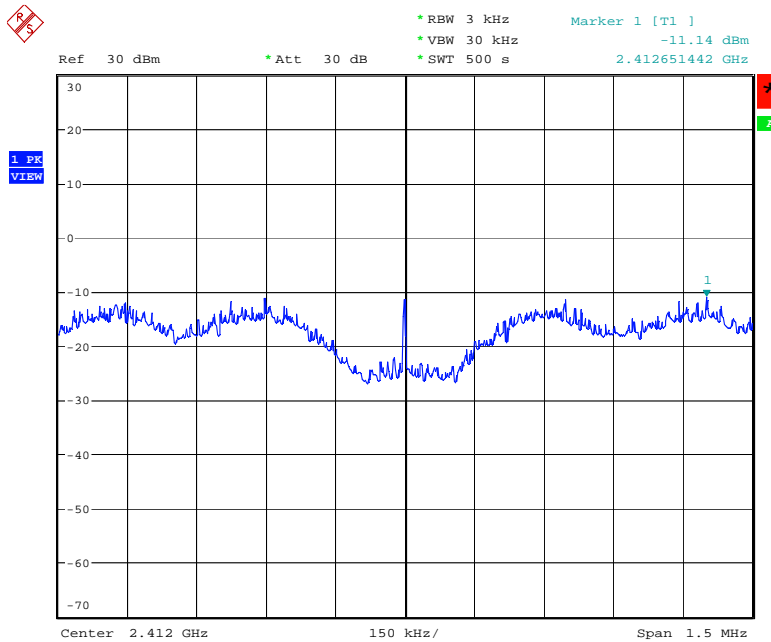
Date: 8.MAY.2006 12:04:45

Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



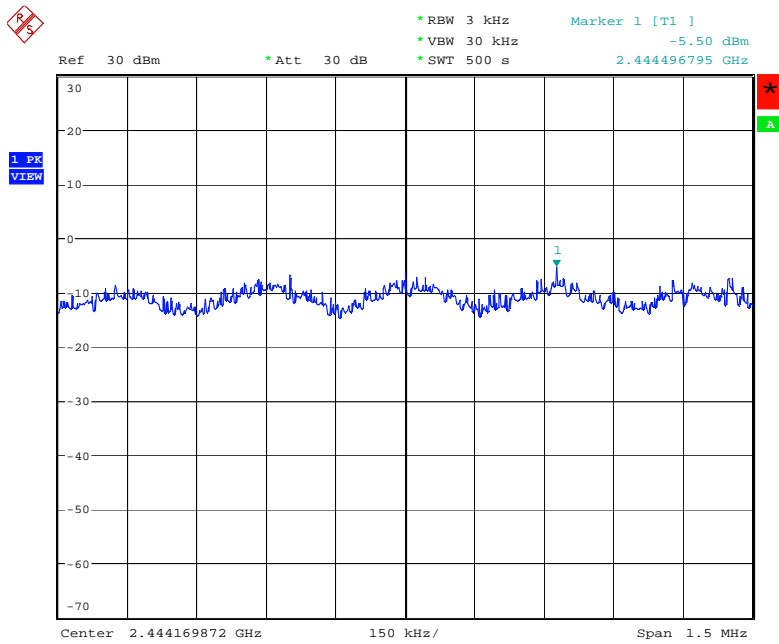
Date: 8.MAY.2006 12:21:31

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



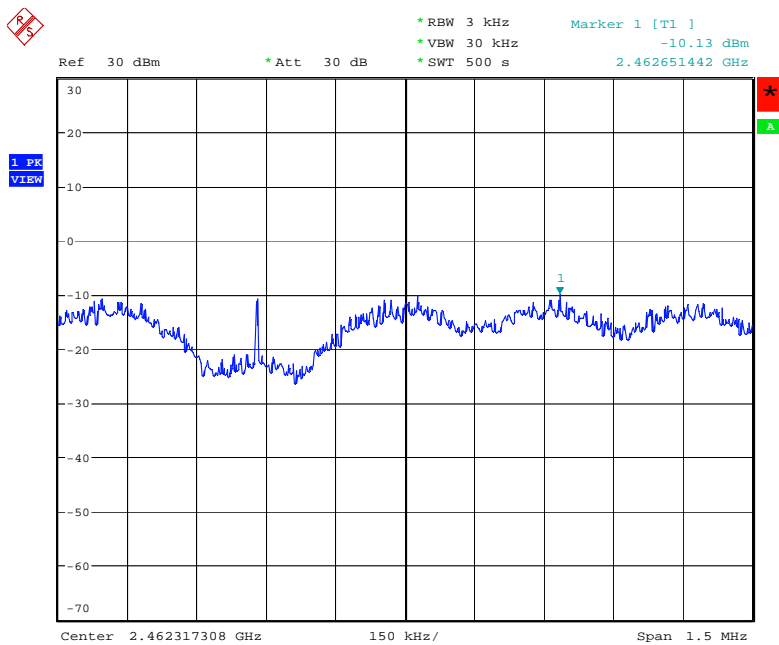
Date: 8.MAY.2006 12:31:19

Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



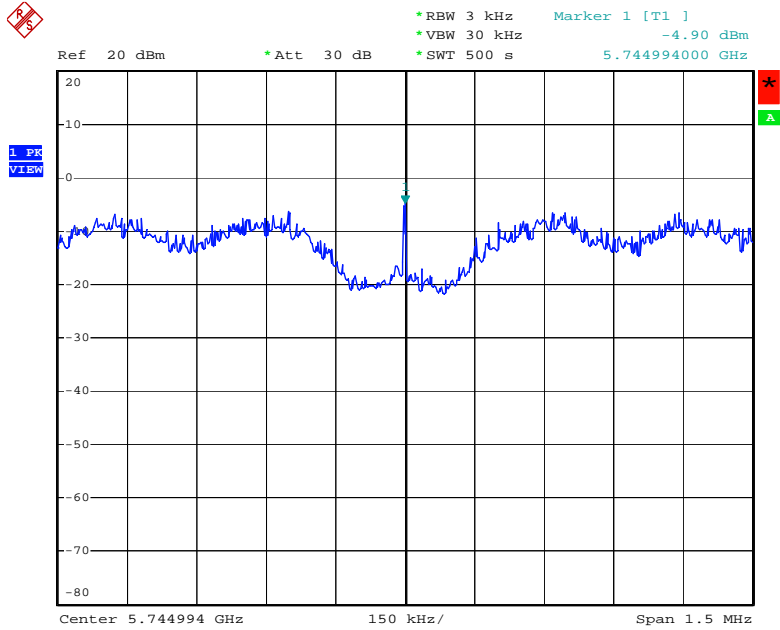
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Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



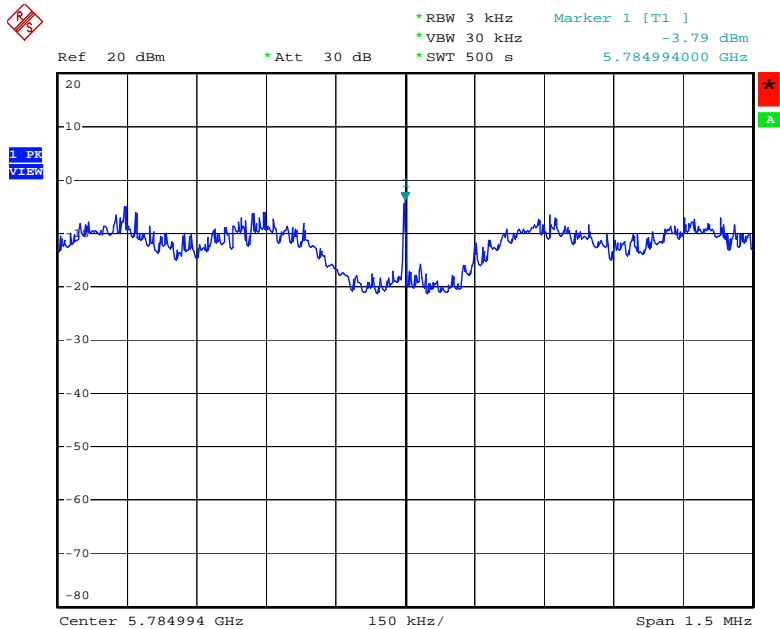
Date: 8.MAY.2006 12:37:36

Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



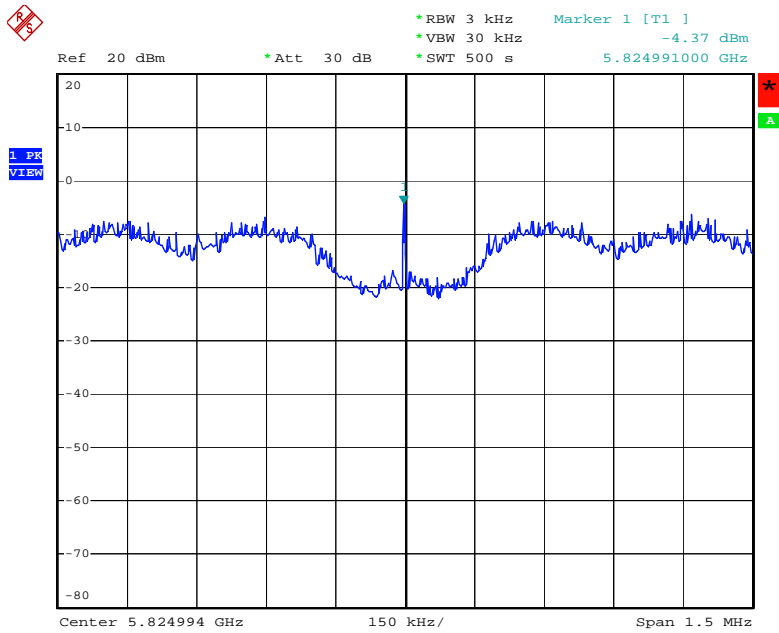
Date: 4.MAY.2006 23:09:54

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



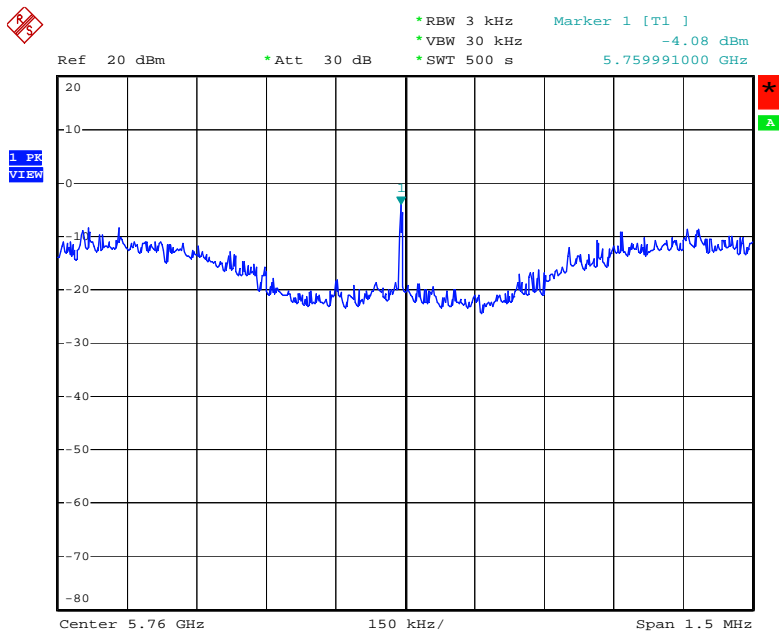
Date: 4.MAY.2006 23:08:26

Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



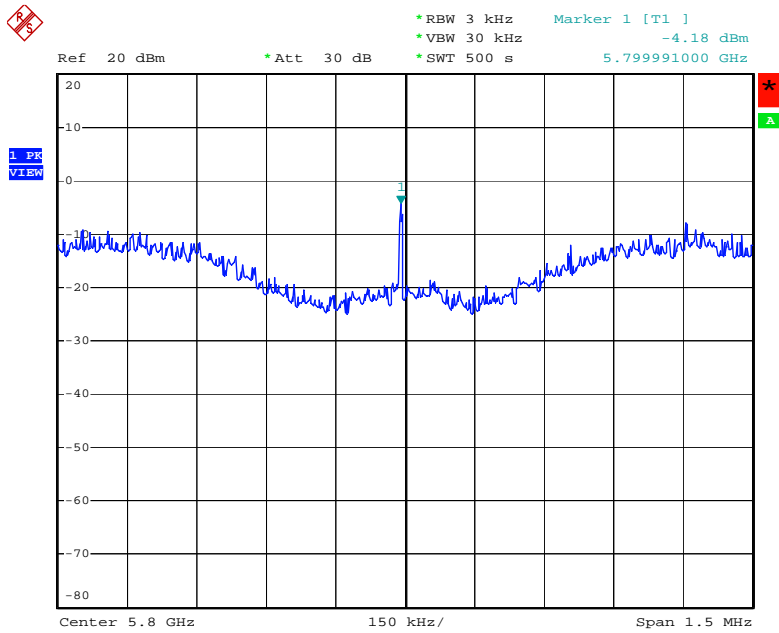
Date: 4.MAY.2006 22:53:29

Power Density Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 22:06:17

Power Density Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 22:06:44

4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.4.2. Measuring Instruments and Setting

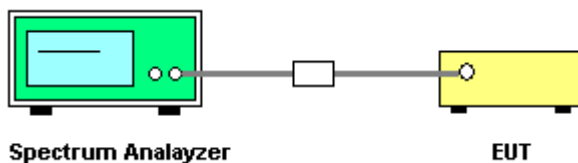
Please refer to section 5 in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of 6dB Spectrum Bandwidth

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 1

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	15.56	500	Complies
6	2437 MHz	12.00	15.60	500	Complies
11	2462 MHz	11.12	15.48	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.52	500	Complies
6	2437 MHz	16.36	16.56	500	Complies
11	2462 MHz	16.40	16.52	500	Complies

Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.56	500	Complies
157	5785 MHz	16.36	16.56	500	Complies
165	5825 MHz	16.44	16.56	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.64	33.04	500	Complies
160	5800 MHz	32.64	33.04	500	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 2

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	15.56	500	Complies
6	2437 MHz	12.04	15.60	500	Complies
11	2462 MHz	11.12	15.52	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.36	16.52	500	Complies
6	2437 MHz	16.36	16.52	500	Complies
11	2462 MHz	16.36	16.52	500	Complies

Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.40	16.64	500	Complies
157	5785 MHz	16.40	16.64	500	Complies
165	5825 MHz	16.40	16.64	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.64	33.12	500	Complies
160	5800 MHz	32.64	33.04	500	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 3

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.08	15.60	500	Complies
6	2437 MHz	10.12	15.56	500	Complies
11	2462 MHz	11.12	15.48	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.56	500	Complies
6	2437 MHz	16.40	16.52	500	Complies
11	2462 MHz	16.40	16.52	500	Complies

Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.44	16.52	500	Complies
157	5785 MHz	16.40	16.52	500	Complies
165	5825 MHz	16.40	16.52	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.64	33.04	500	Complies
160	5800 MHz	32.64	32.88	500	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 4

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.04	15.64	500	Complies
6	2437 MHz	12.04	15.60	500	Complies
11	2462 MHz	11.12	15.56	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.52	500	Complies
6	2437 MHz	16.40	16.48	500	Complies
11	2462 MHz	16.40	16.52	500	Complies

Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.56	500	Complies
157	5785 MHz	16.36	16.56	500	Complies
165	5825 MHz	16.44	16.56	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.64	33.04	500	Complies
160	5800 MHz	32.64	33.04	500	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 5

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.08	15.60	500	Complies
6	2437 MHz	11.04	15.56	500	Complies
11	2462 MHz	12.08	15.56	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.40	16.52	500	Complies
6	2437 MHz	16.36	16.52	500	Complies
11	2462 MHz	16.40	16.52	500	Complies

Configuration IEEE 802.11a

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.44	16.56	500	Complies
157	5785 MHz	16.44	16.56	500	Complies
165	5825 MHz	16.44	16.56	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.56	32.96	500	Complies
160	5800 MHz	32.64	32.96	500	Complies

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a/b/g / Ant. 6

Configuration IEEE 802.11b

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.32	15.57	500	Complies
6	2437 MHz	12.08	15.57	500	Complies
11	2462 MHz	12.56	15.60	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.44	16.52	500	Complies
6	2437 MHz	16.37	16.53	500	Complies
11	2462 MHz	16.41	16.50	500	Complies

Configuration IEEE 802.11a

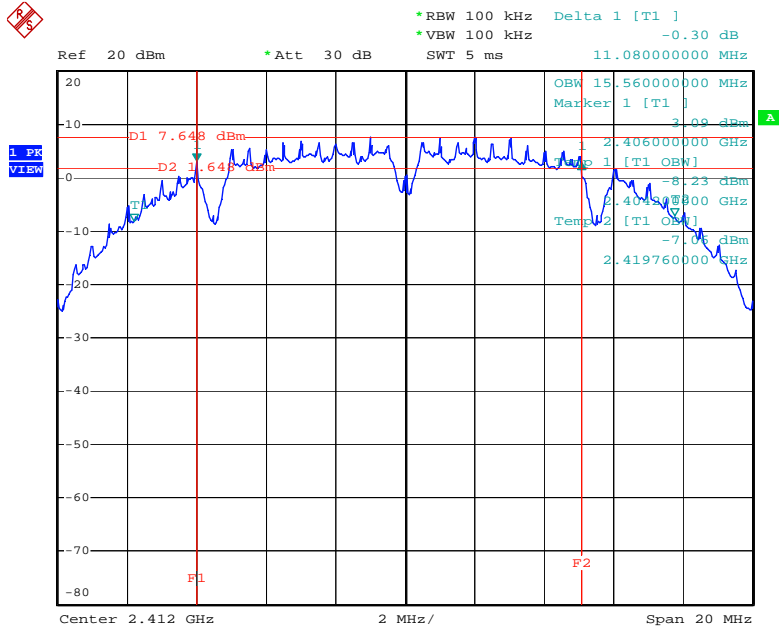
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.56	500	Complies
157	5785 MHz	16.36	16.56	500	Complies
165	5825 MHz	16.44	16.56	500	Complies

Configuration IEEE 802.11a Turbo

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
152	5760 MHz	32.56	32.96	500	Complies
160	5800 MHz	32.64	32.96	500	Complies

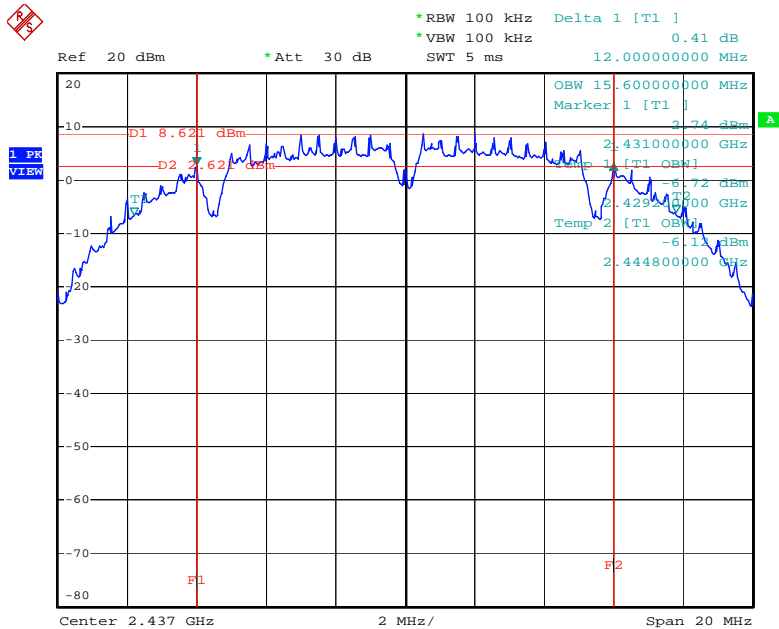
For Ant. 1

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



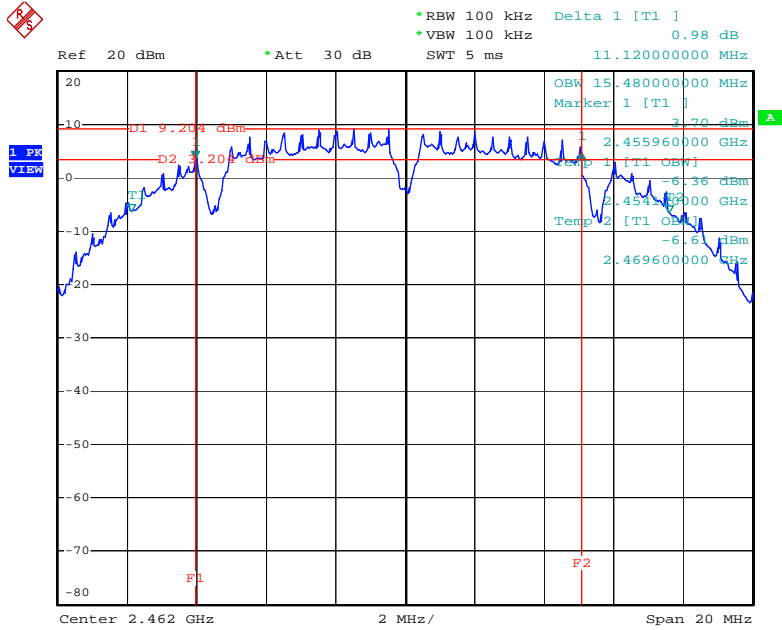
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



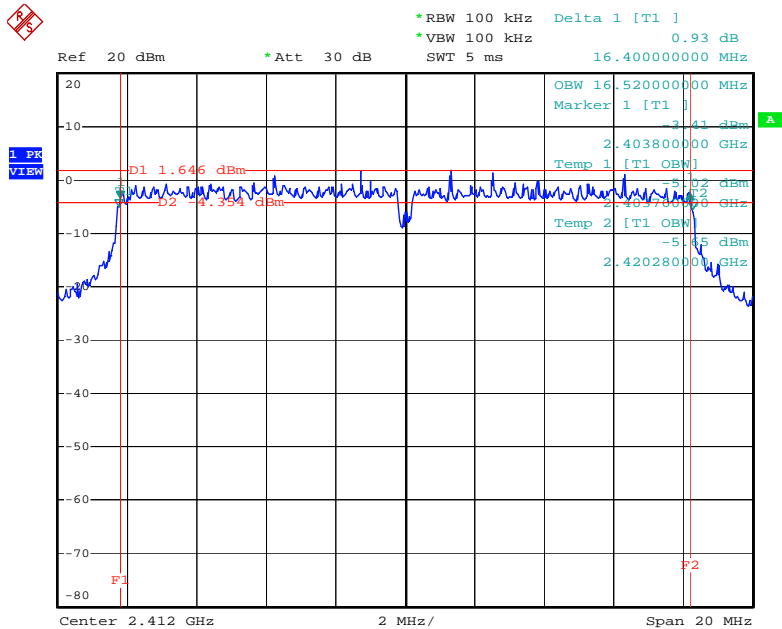
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



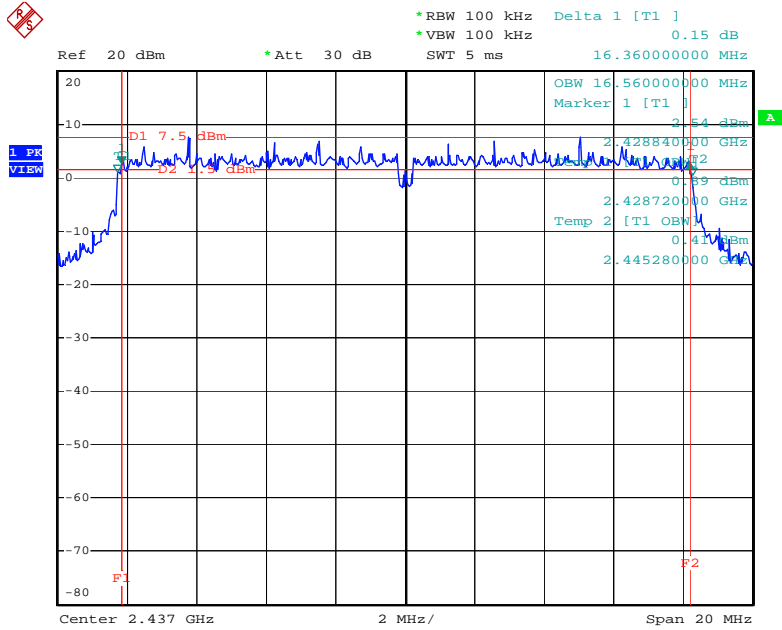
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



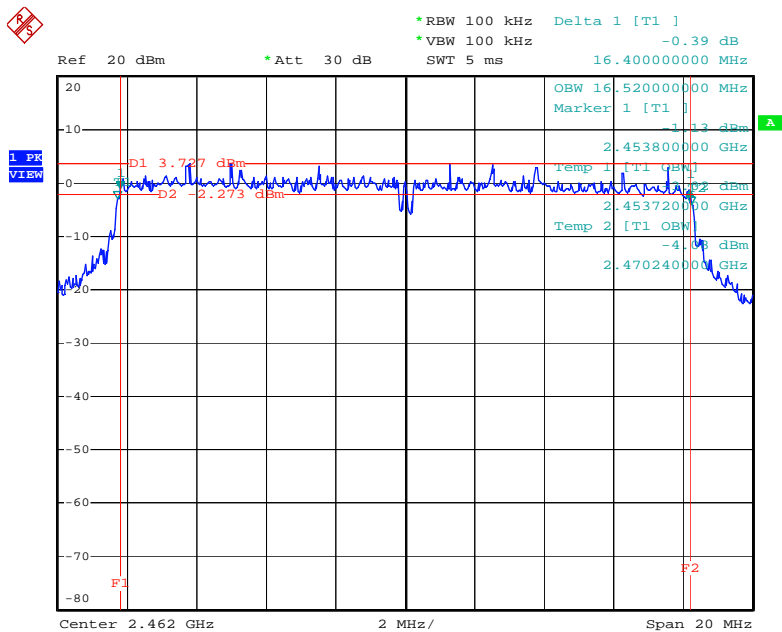
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



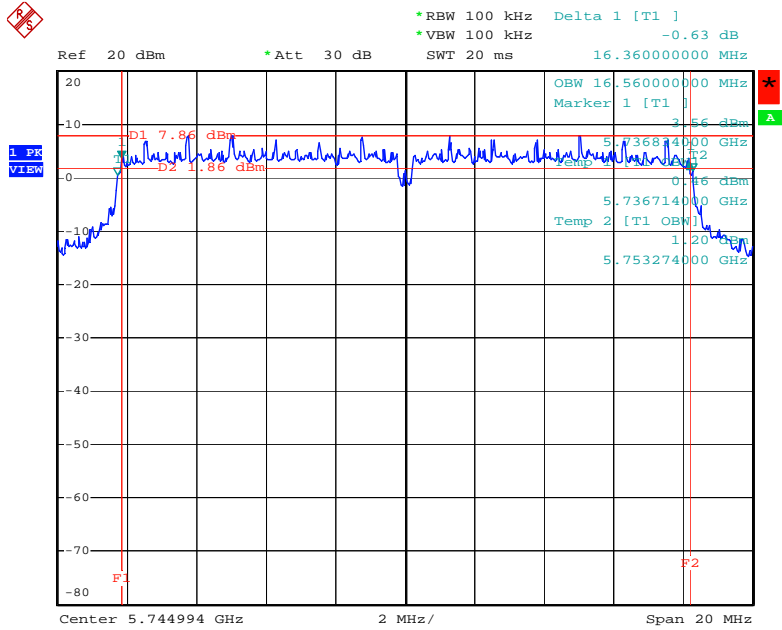
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



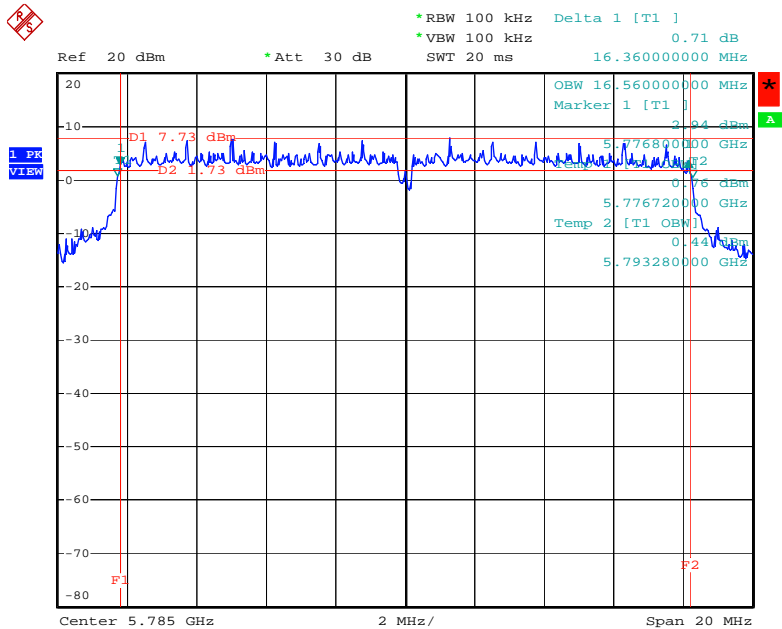
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



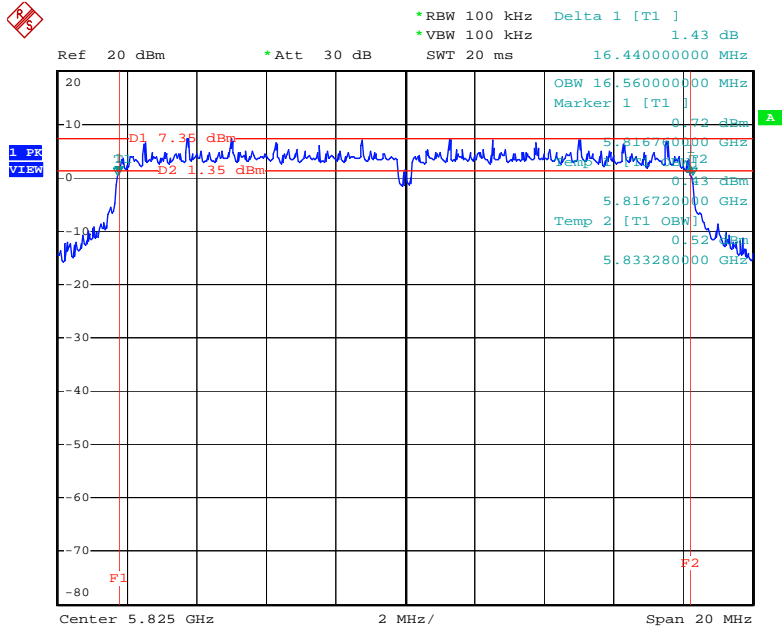
Date: 4.MAY.2006 23:10:44

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



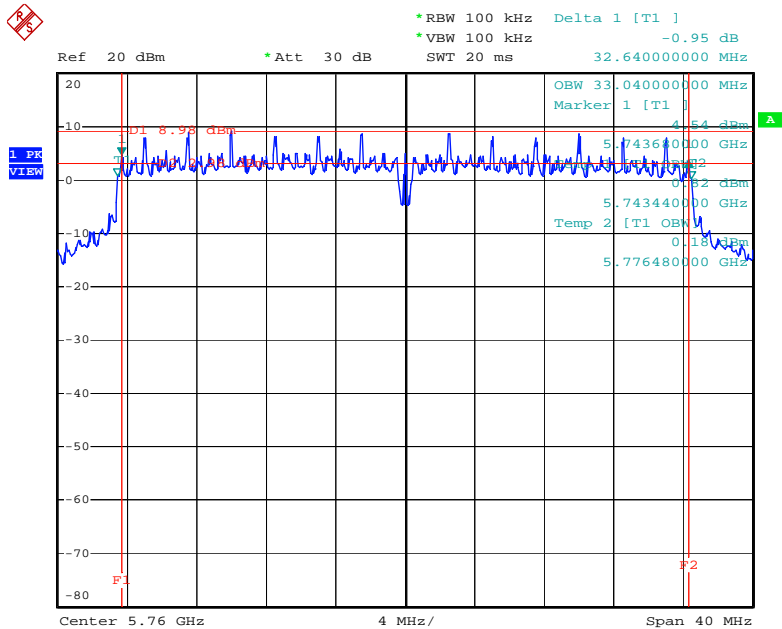
Date: 4.MAY.2006 23:07:55

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



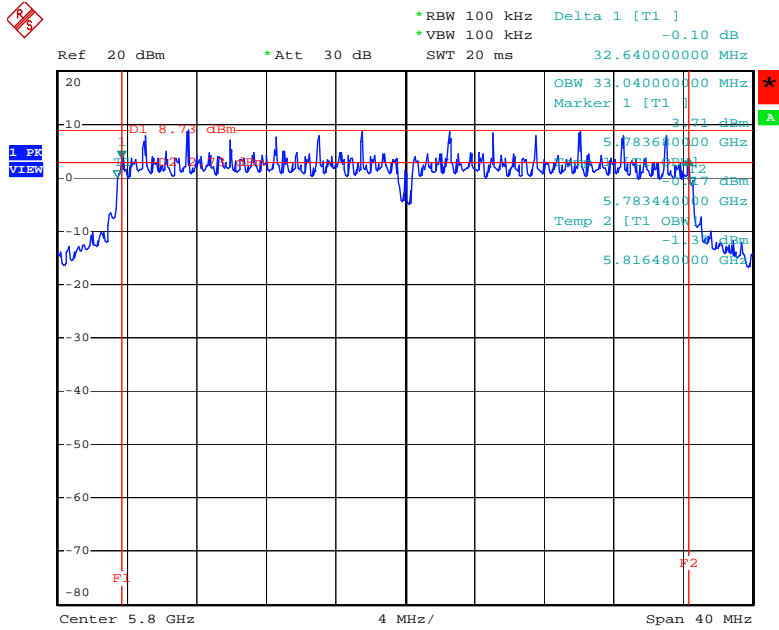
Date: 4.MAY.2006 22:50:38

6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 4.MAY.2006 22:42:56

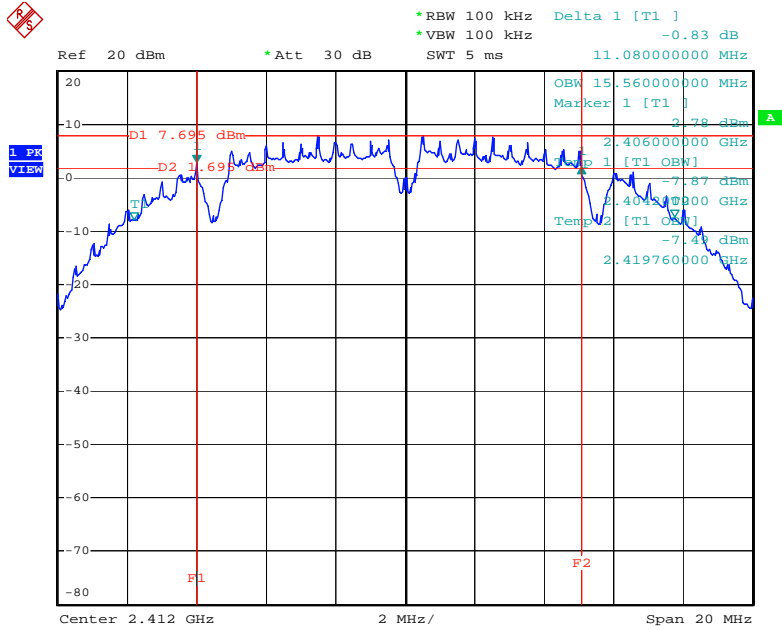
6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 4.MAY.2006 22:47:59

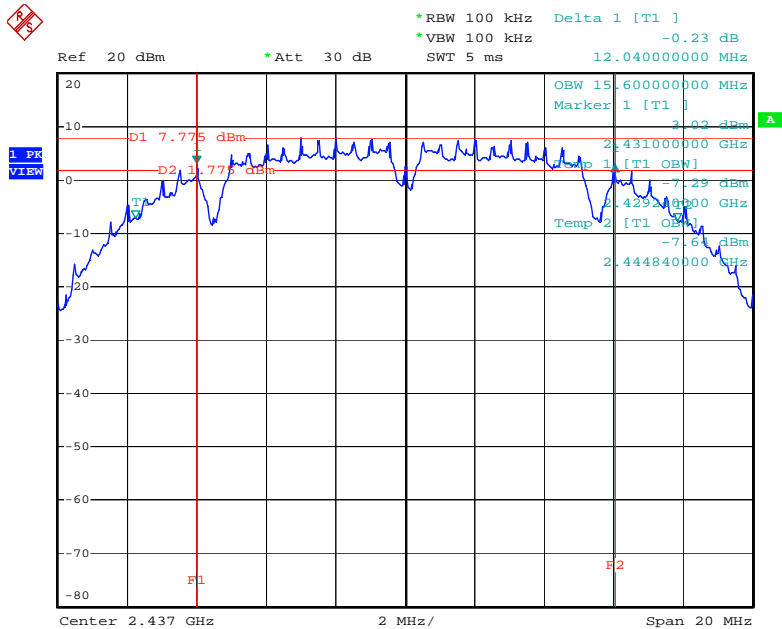
For Ant. 2

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



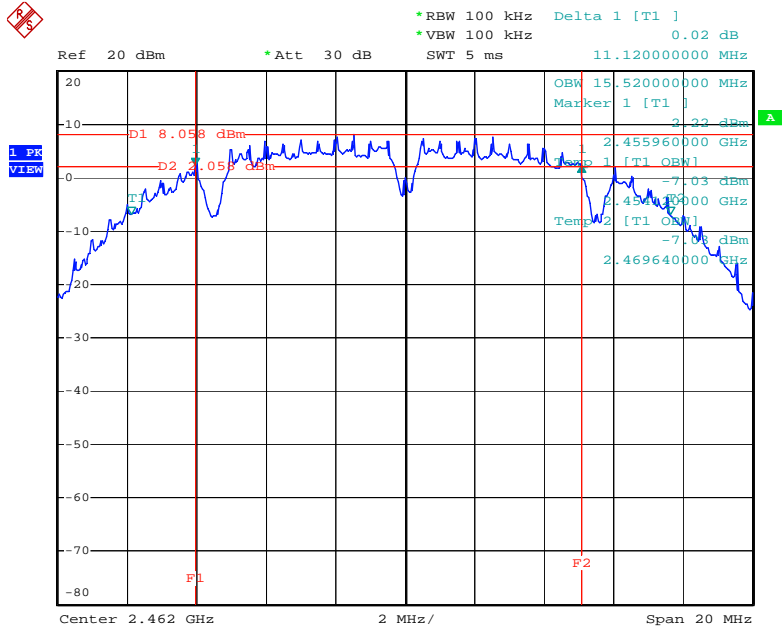
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



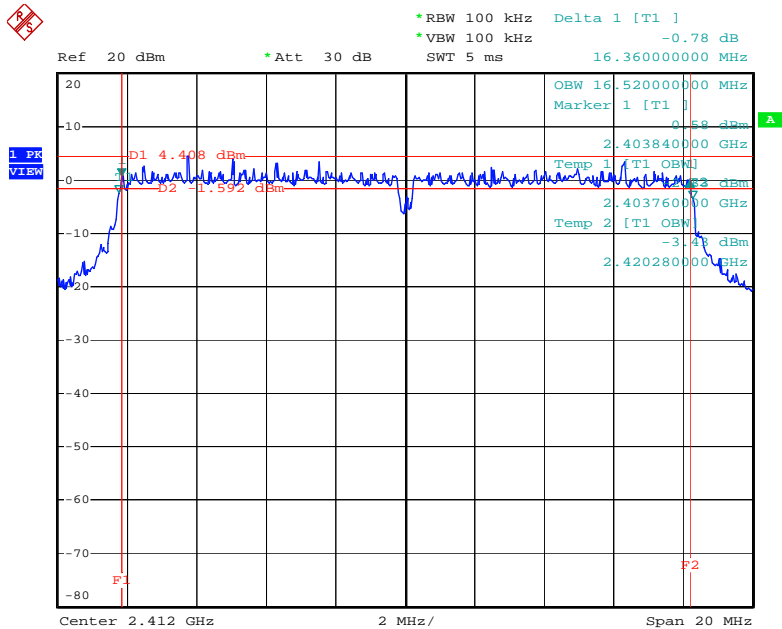
Date: 4.MAY.2006 09:23:12

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



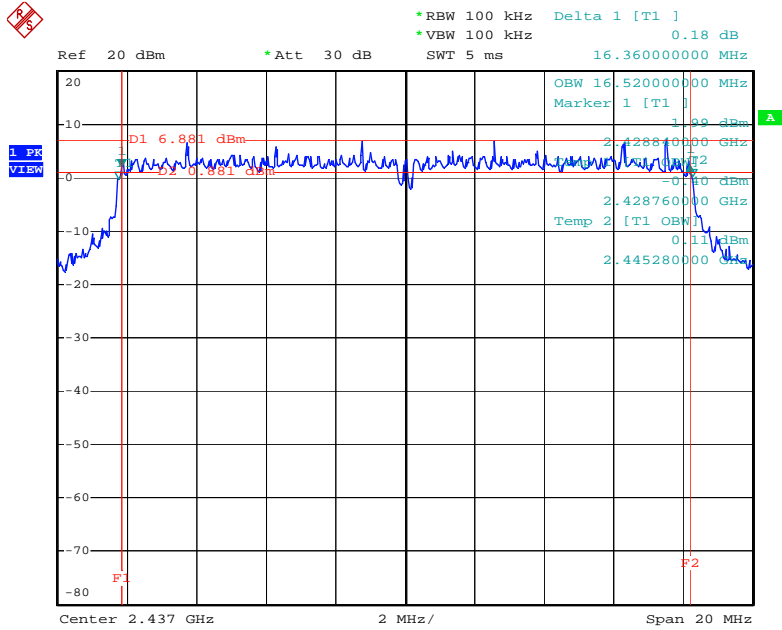
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



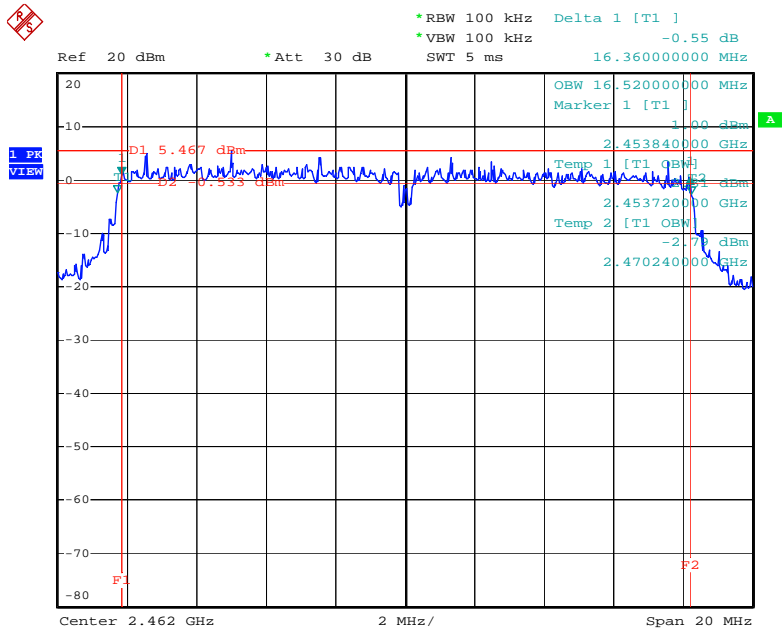
Date: 4.MAY.2006 09:18:51

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



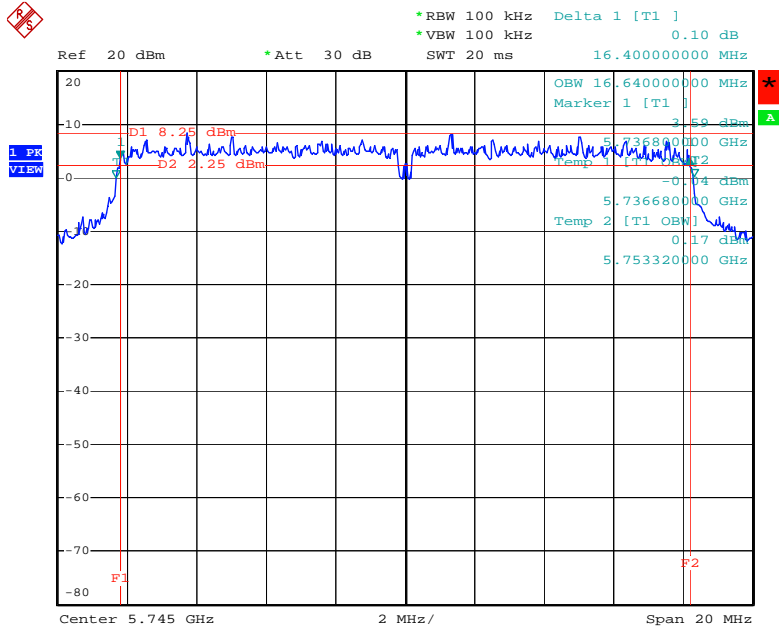
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



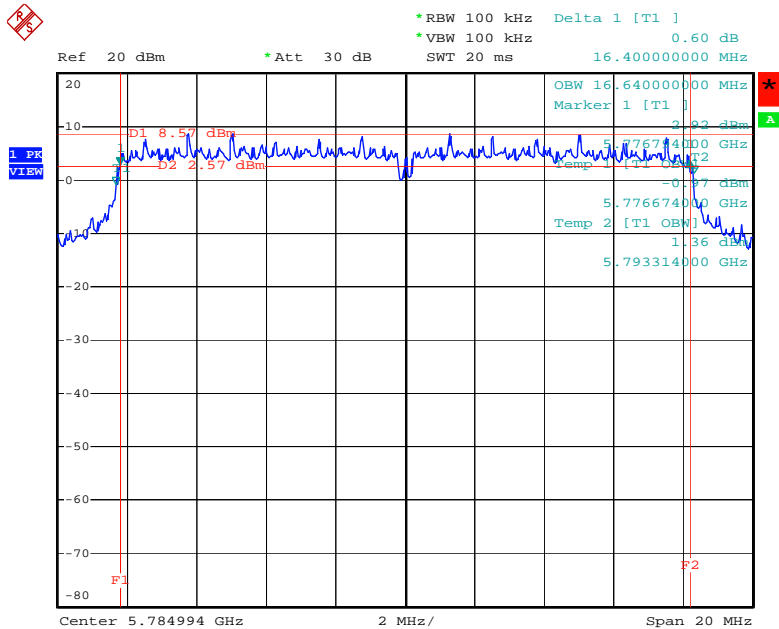
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



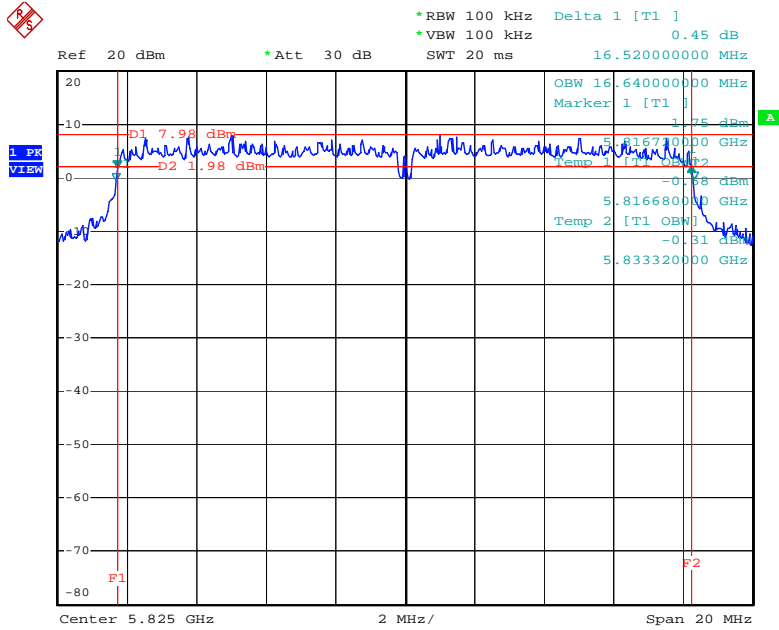
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



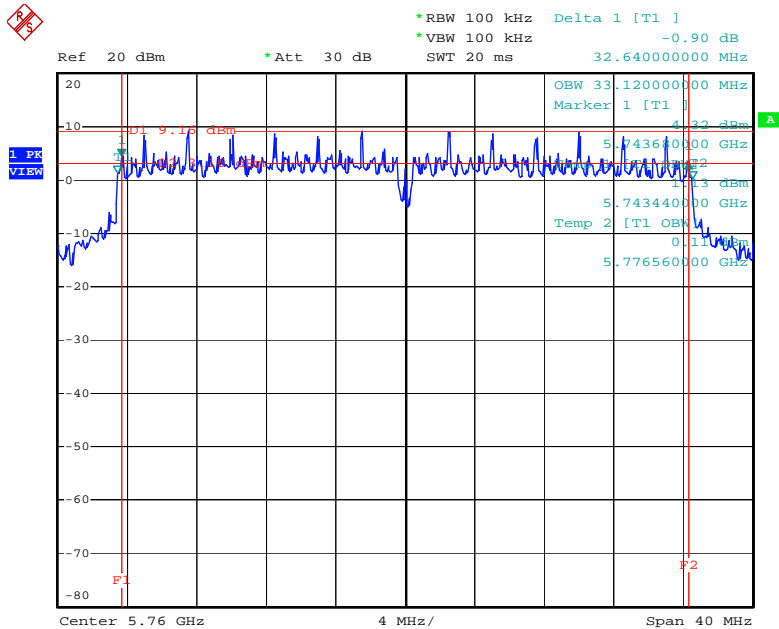
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



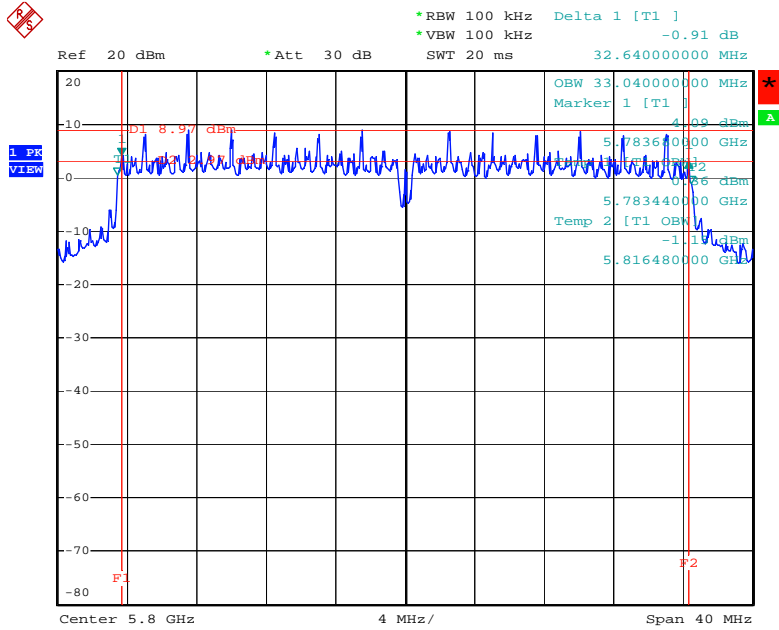
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6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 27.APR.2006 23:24:23

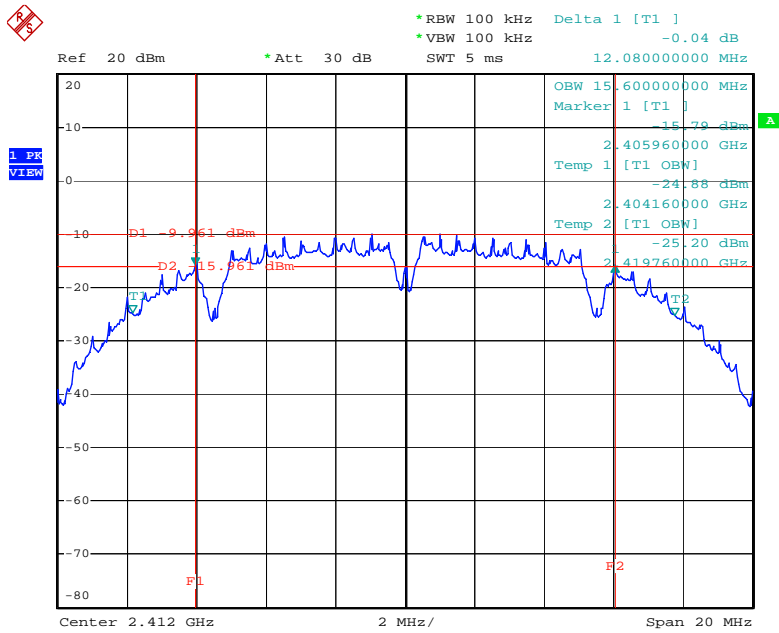
6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



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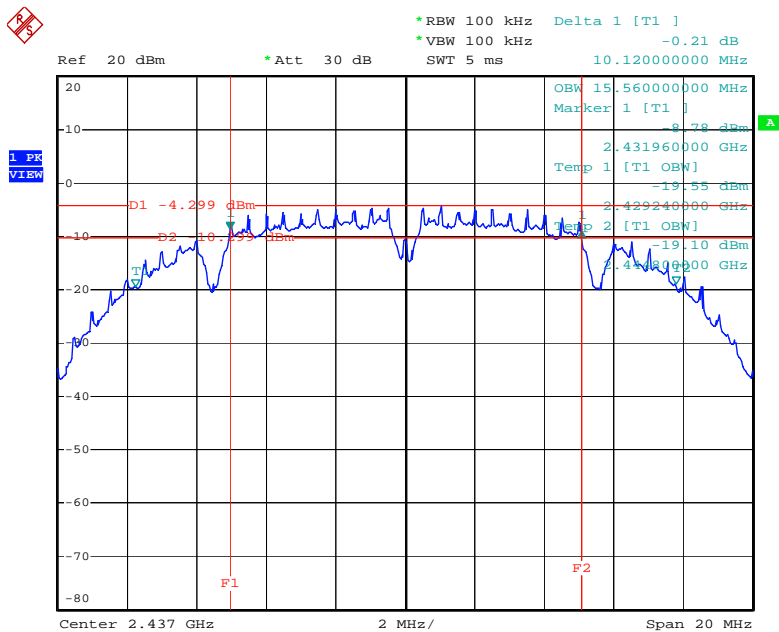
For Ant. 3

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



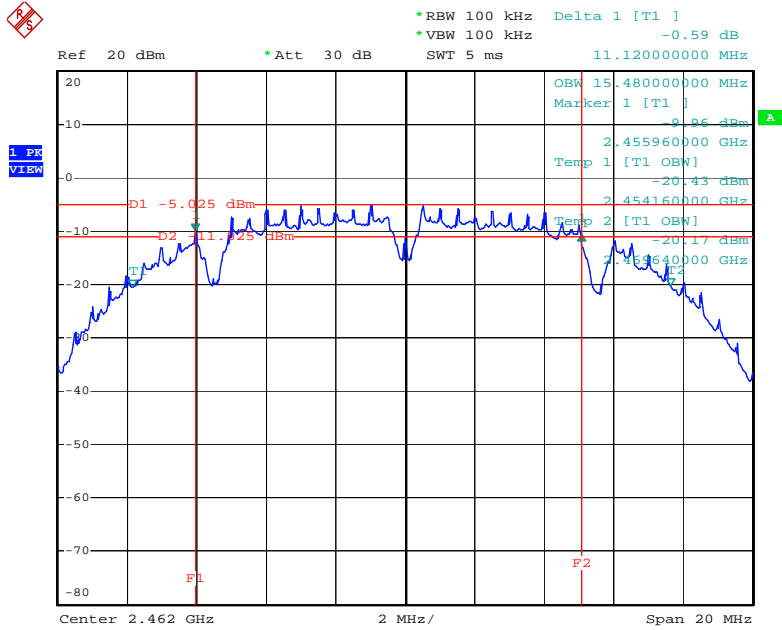
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



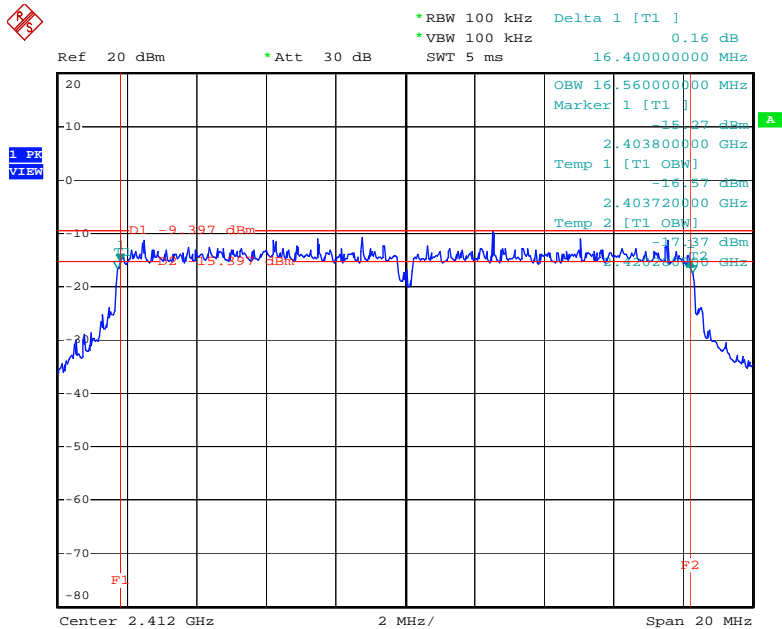
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



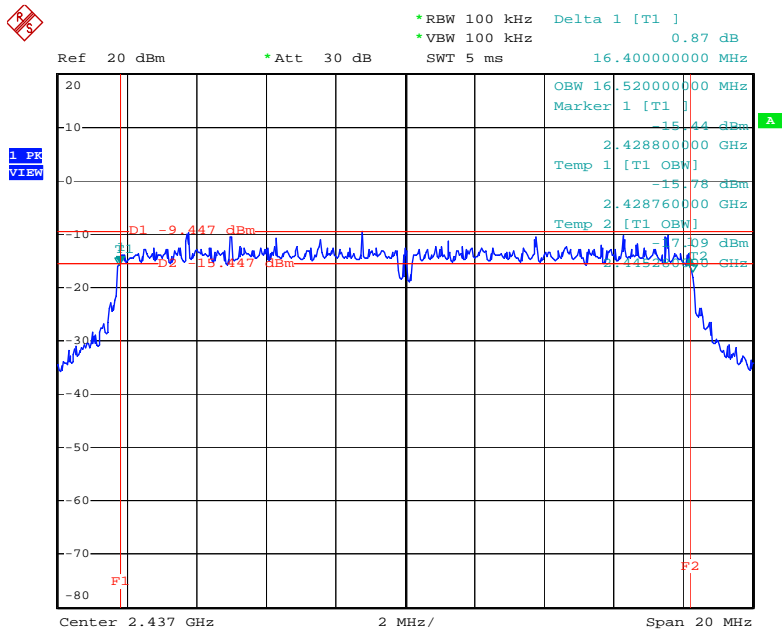
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



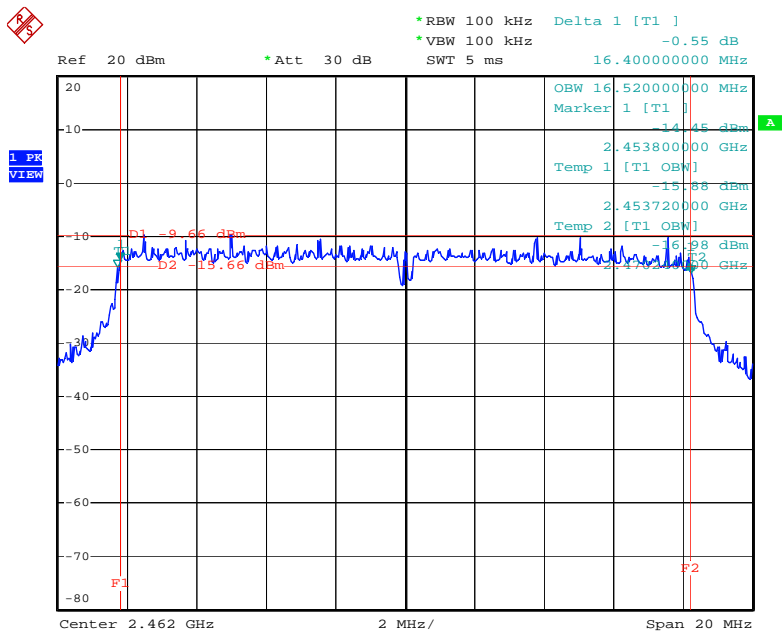
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



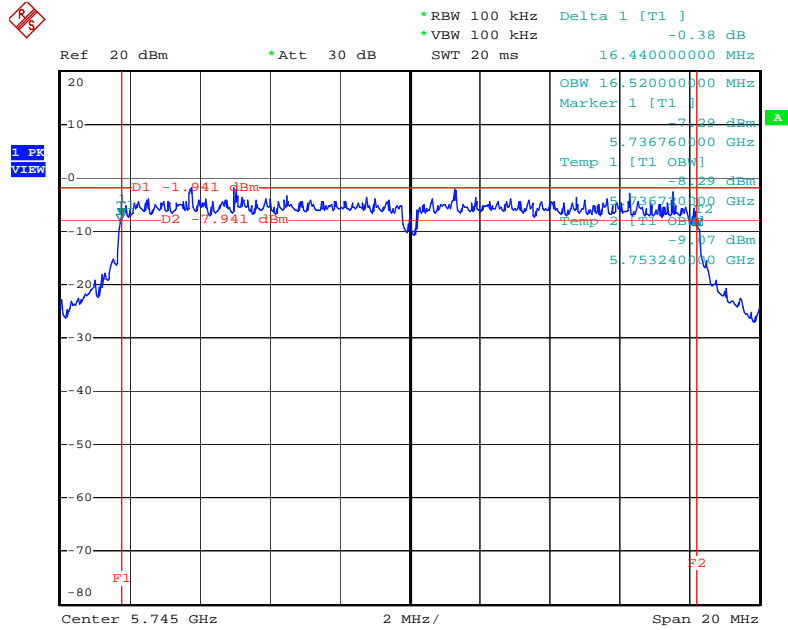
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



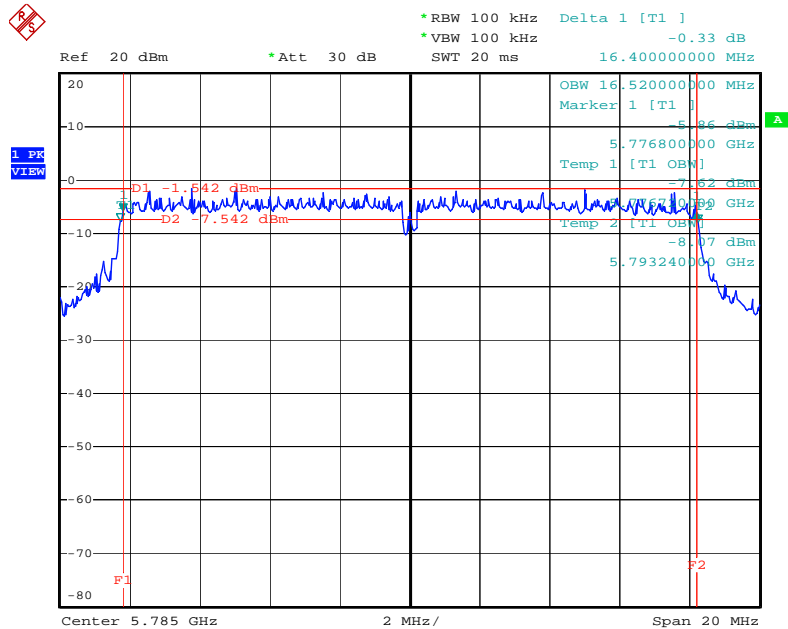
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



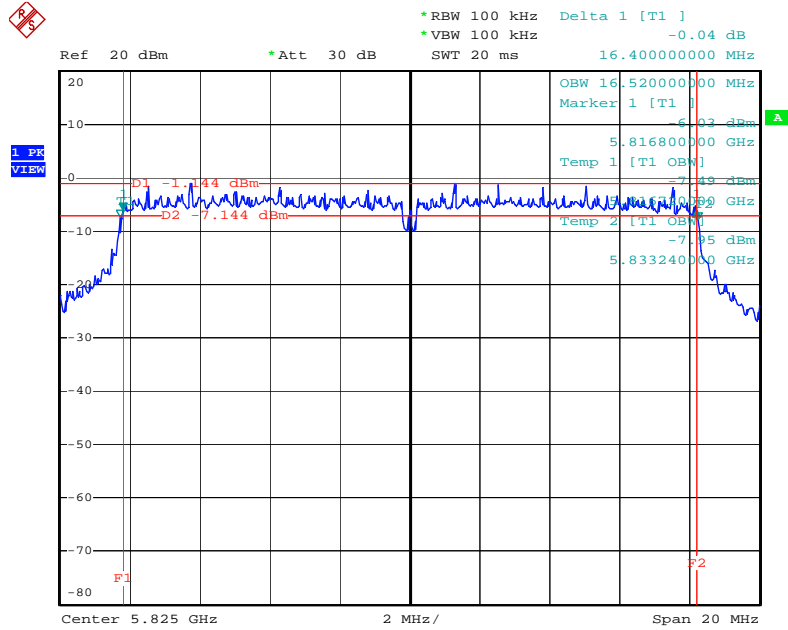
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



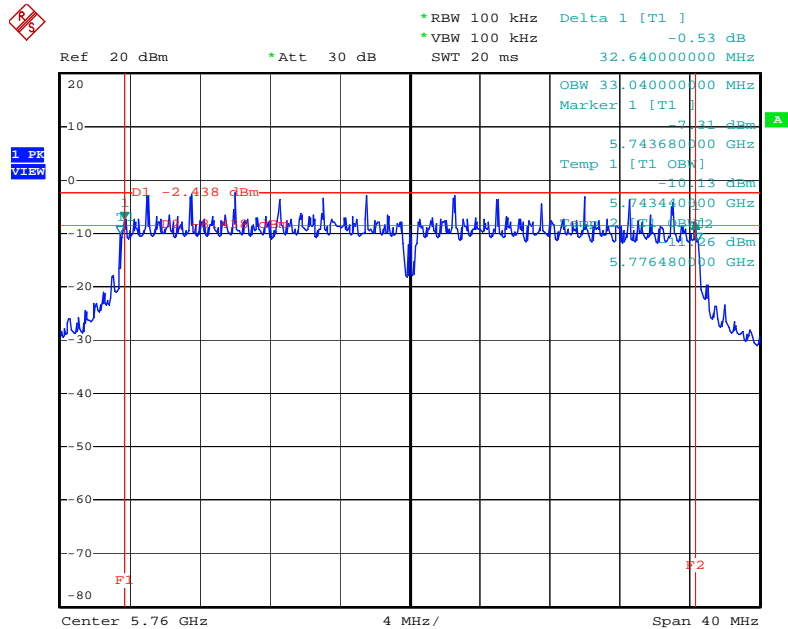
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



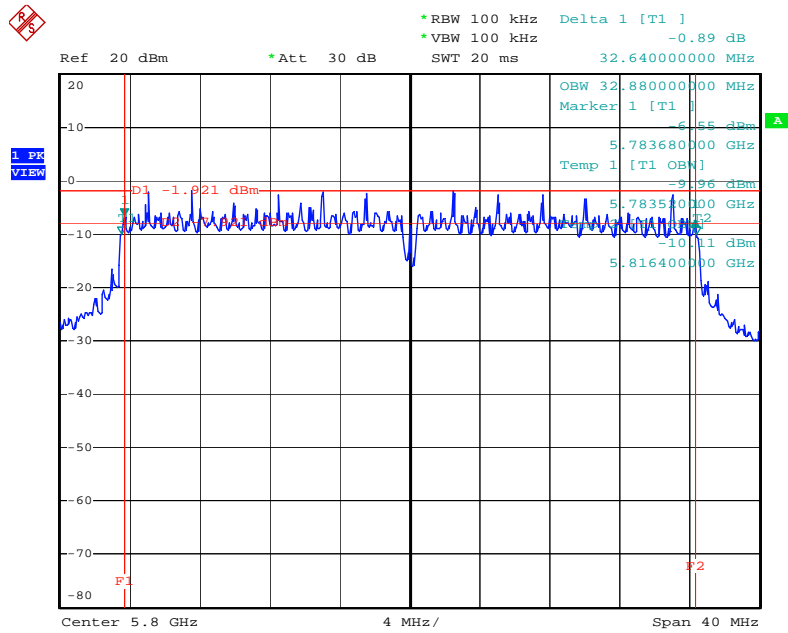
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6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 8.JUN.2006 19:58:42

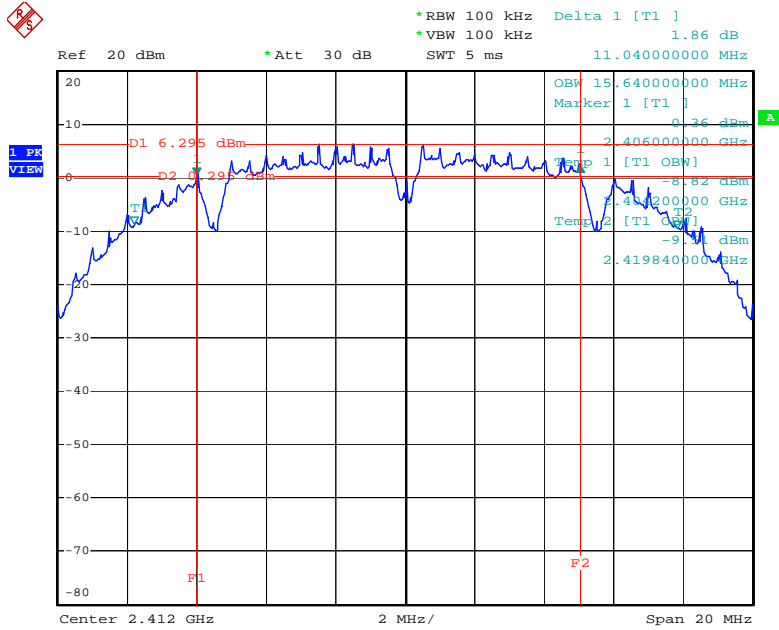
6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



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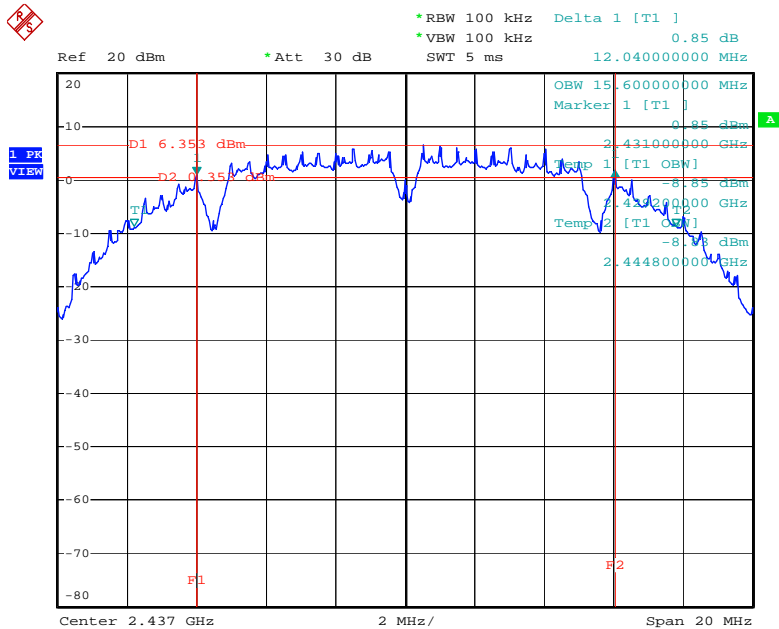
For Ant. 4

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



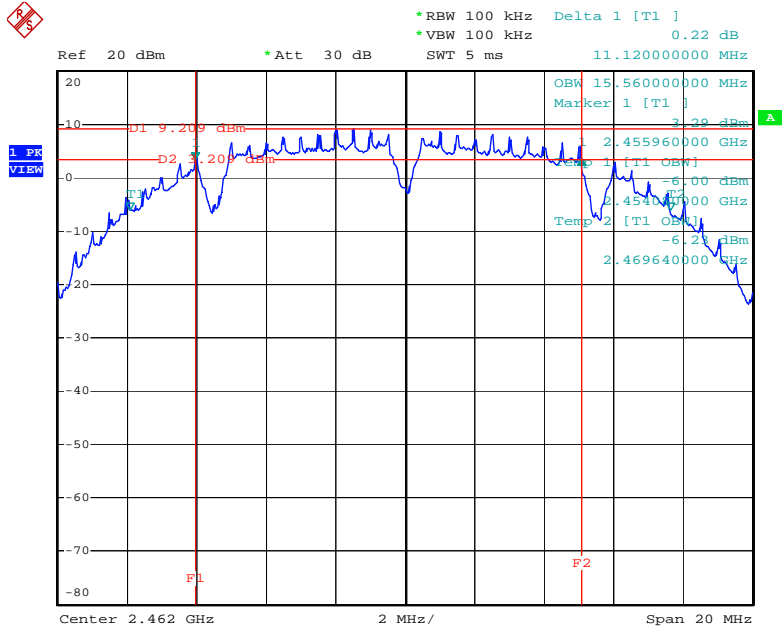
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



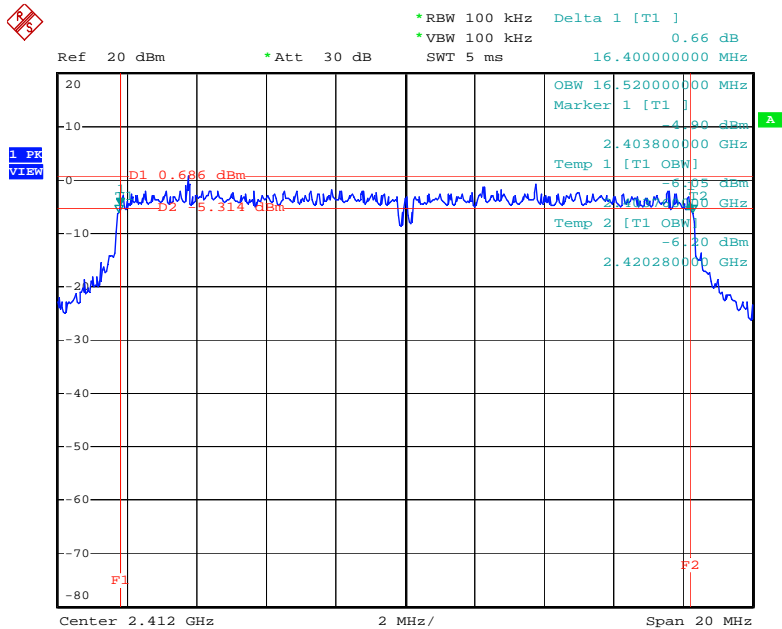
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



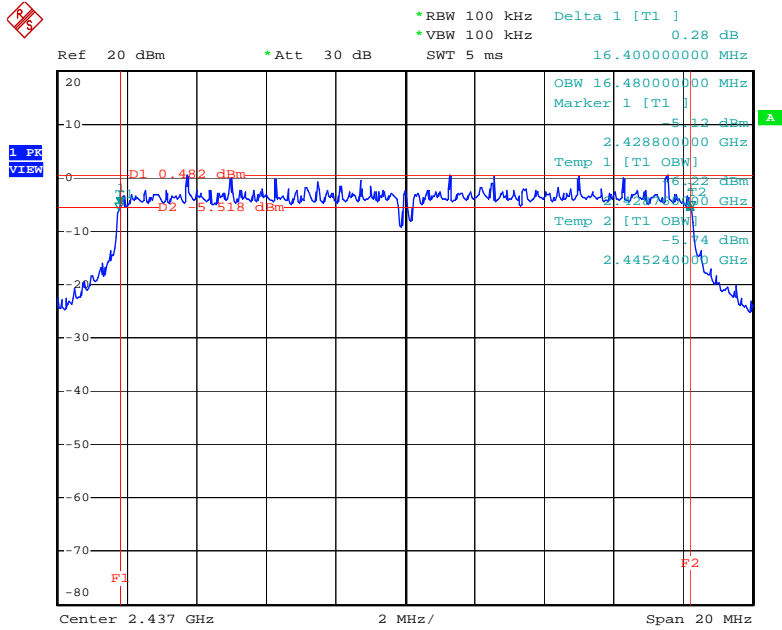
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



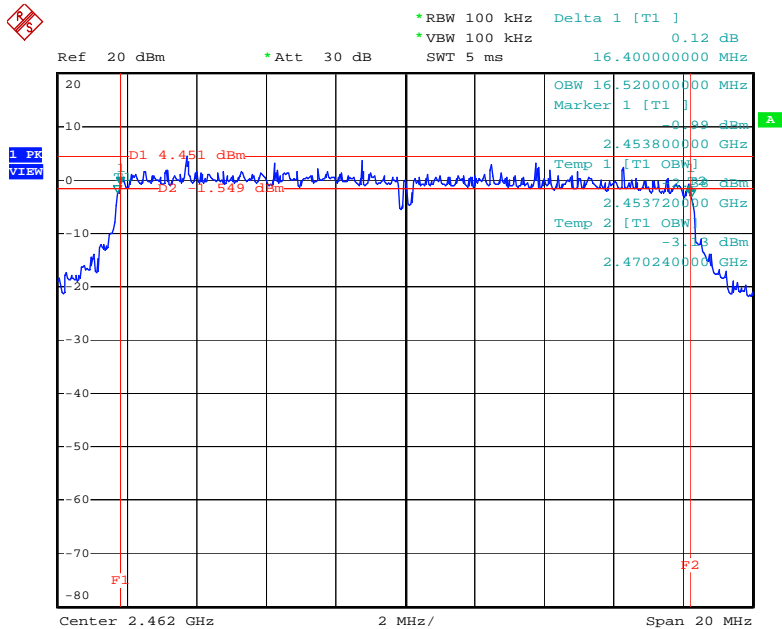
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



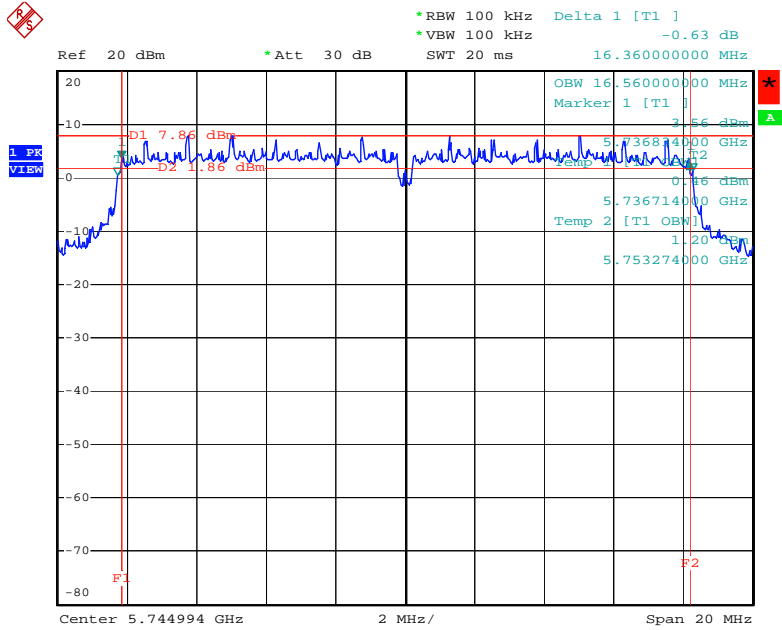
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



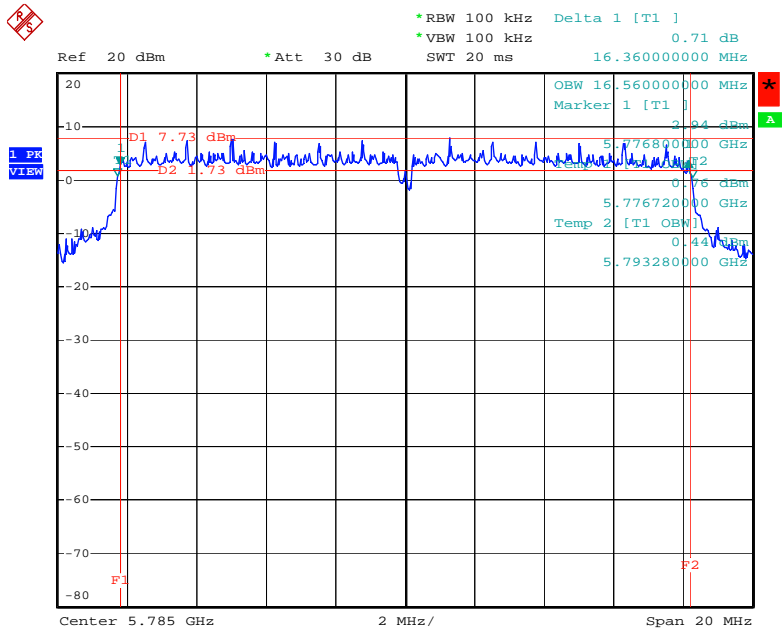
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



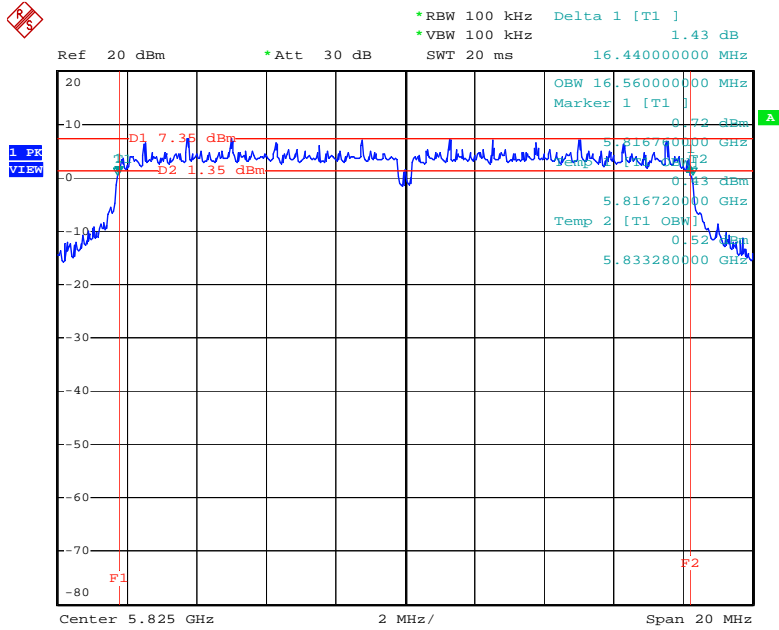
Date: 4.MAY.2006 23:10:44

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



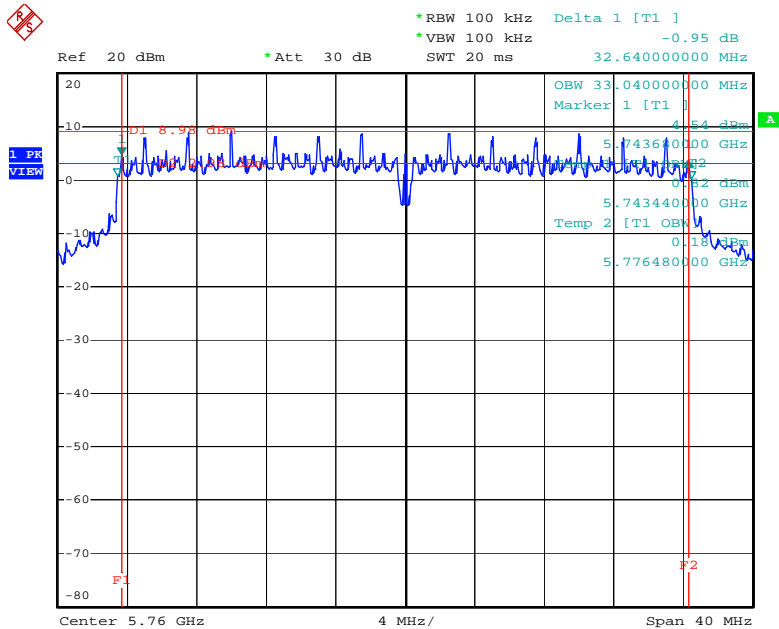
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



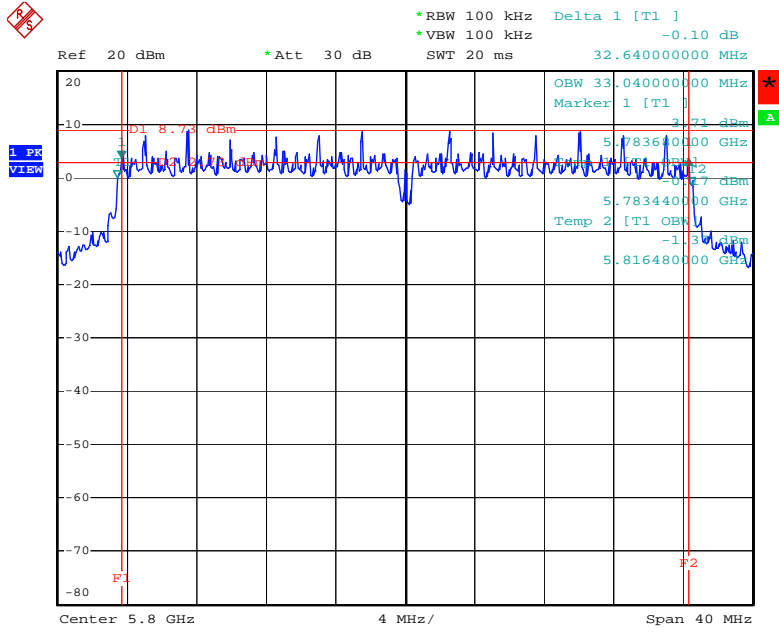
Date: 4.MAY.2006 22:50:38

6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



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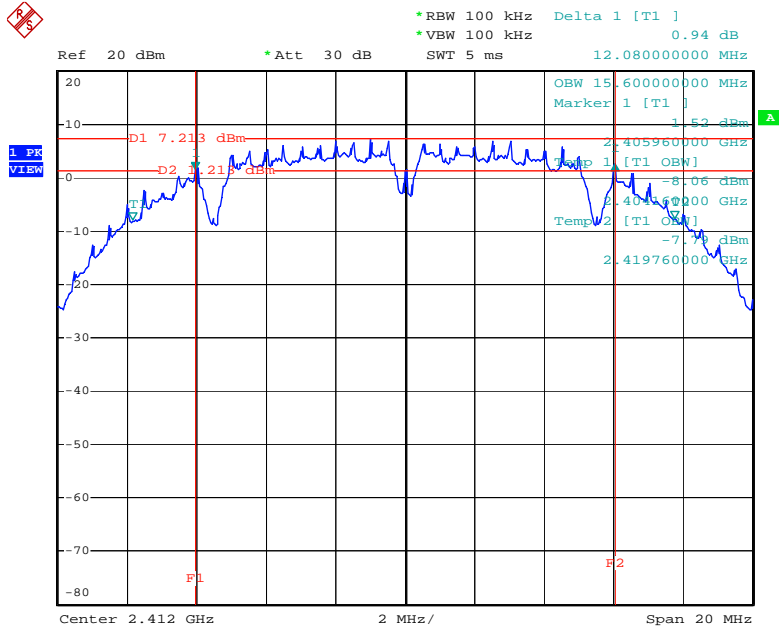
6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



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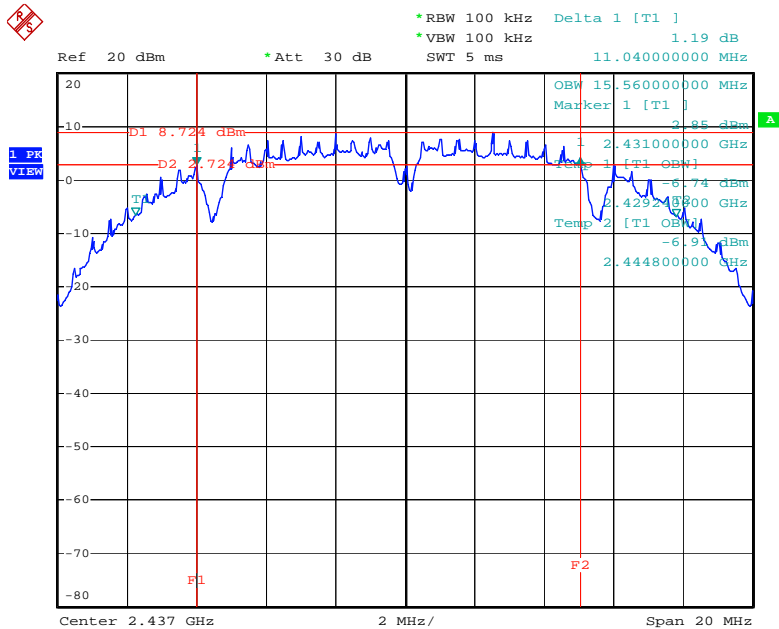
For Ant. 5

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



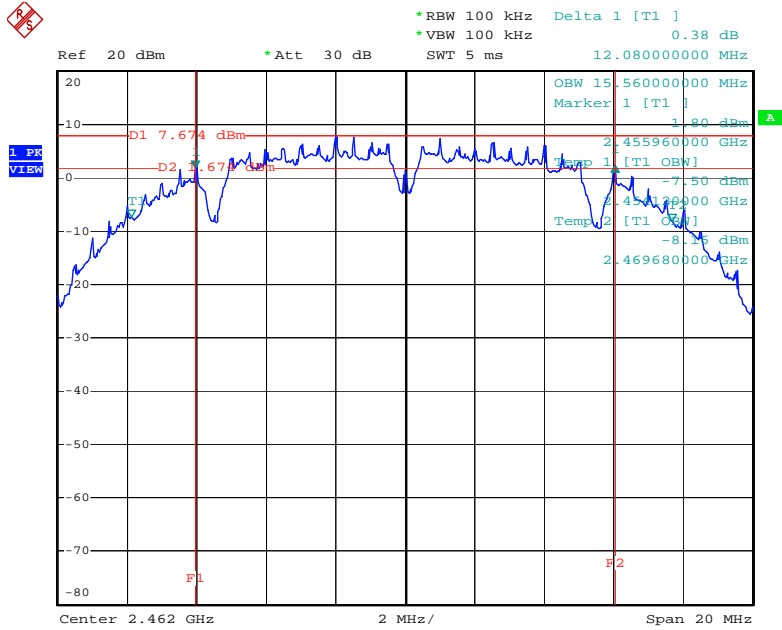
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



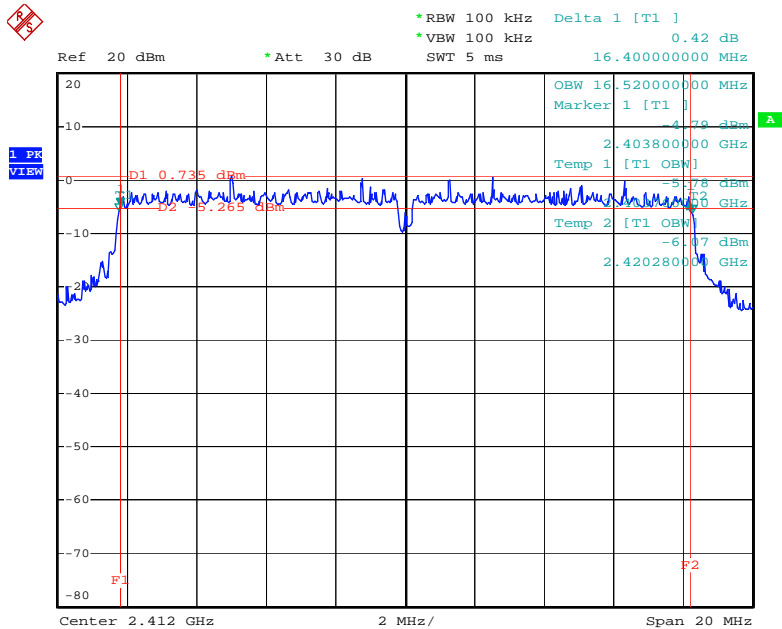
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



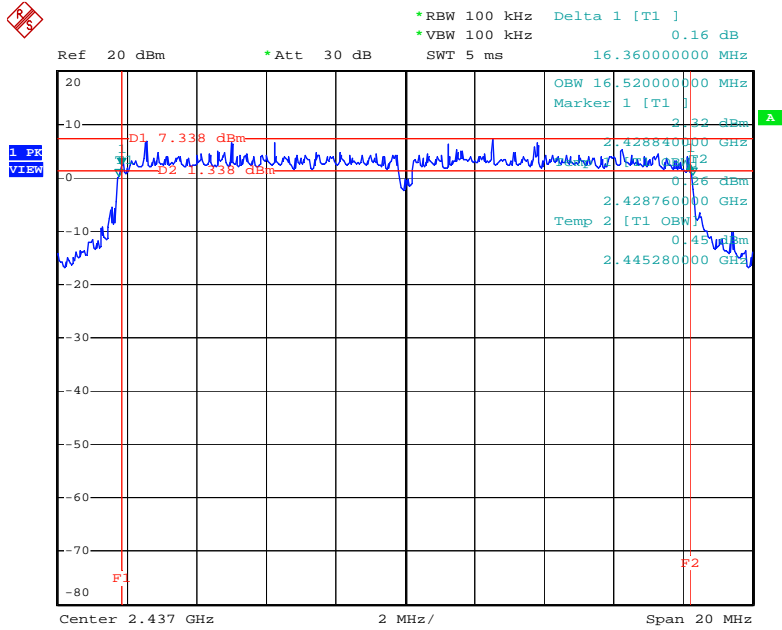
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



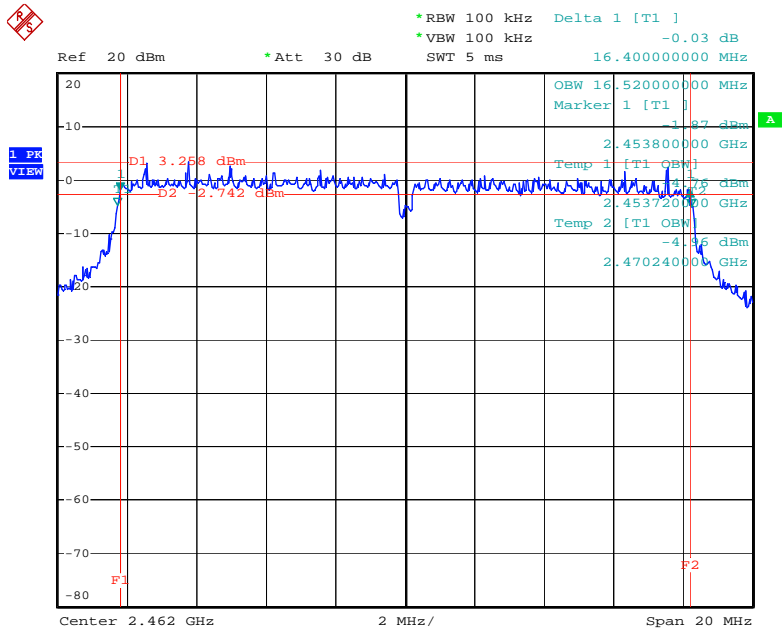
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



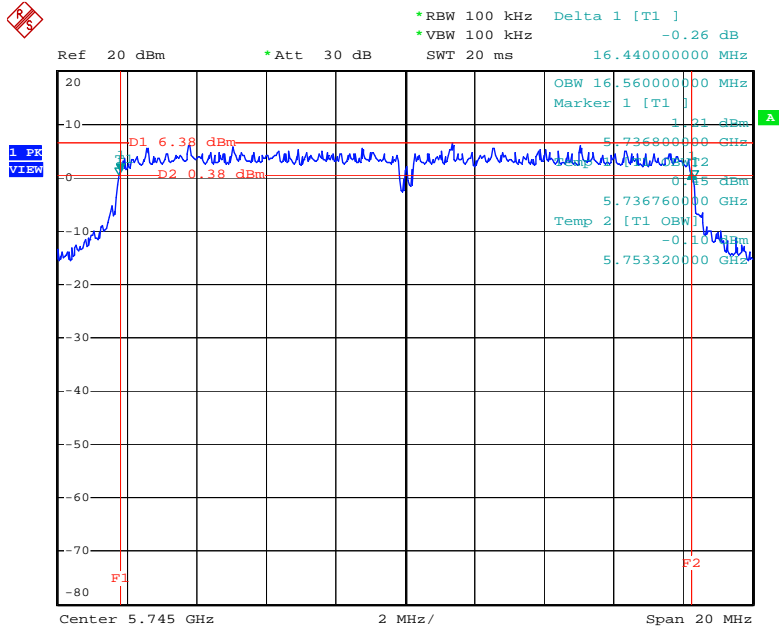
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



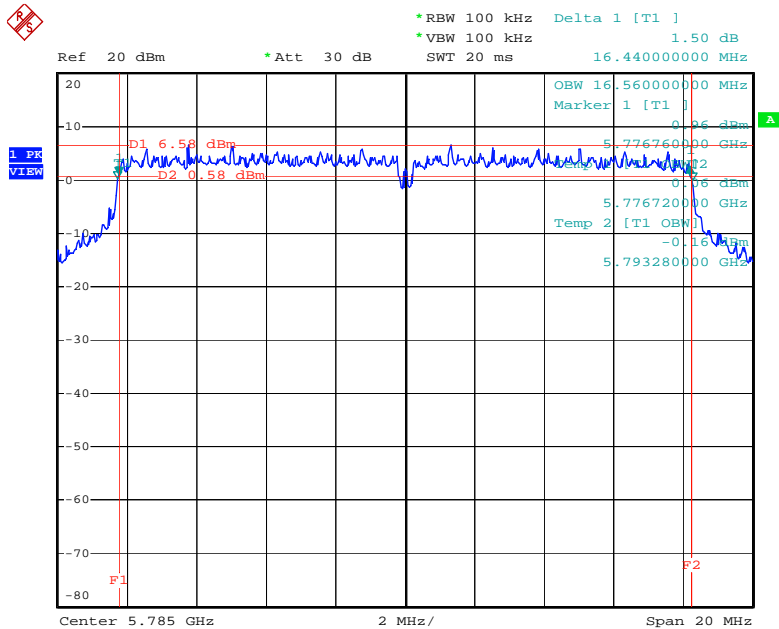
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



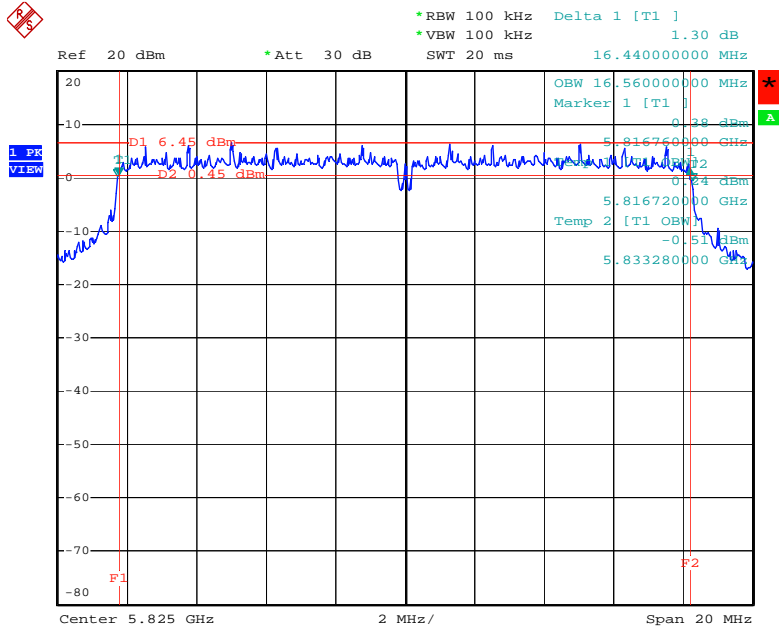
Date: 5.MAY.2006 18:43:34

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



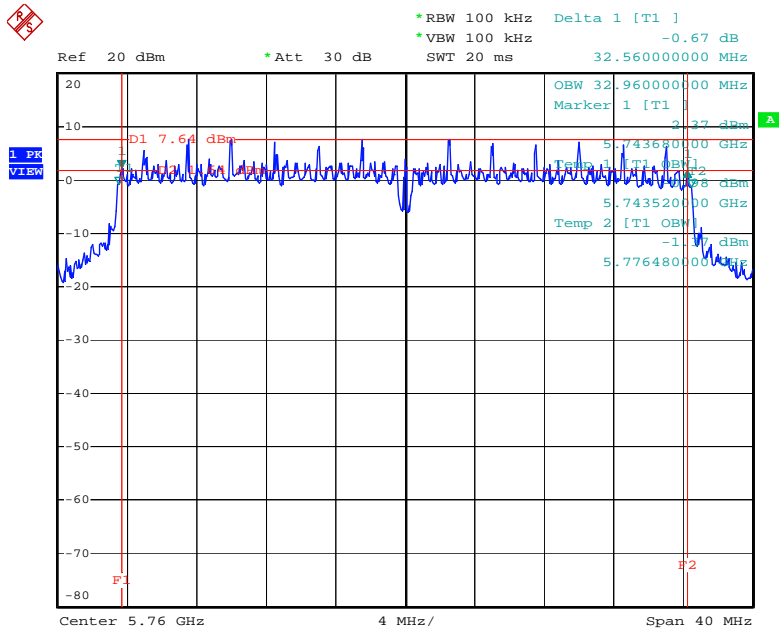
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



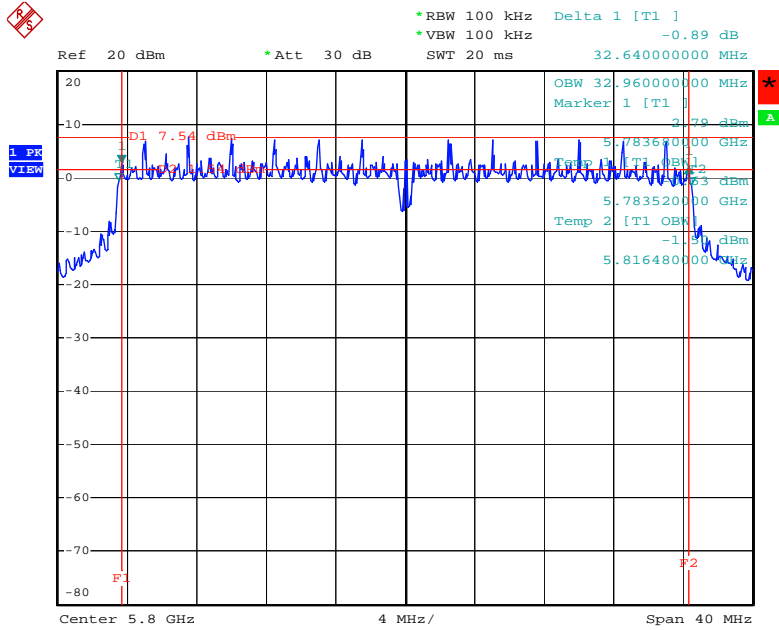
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6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 18:53:59

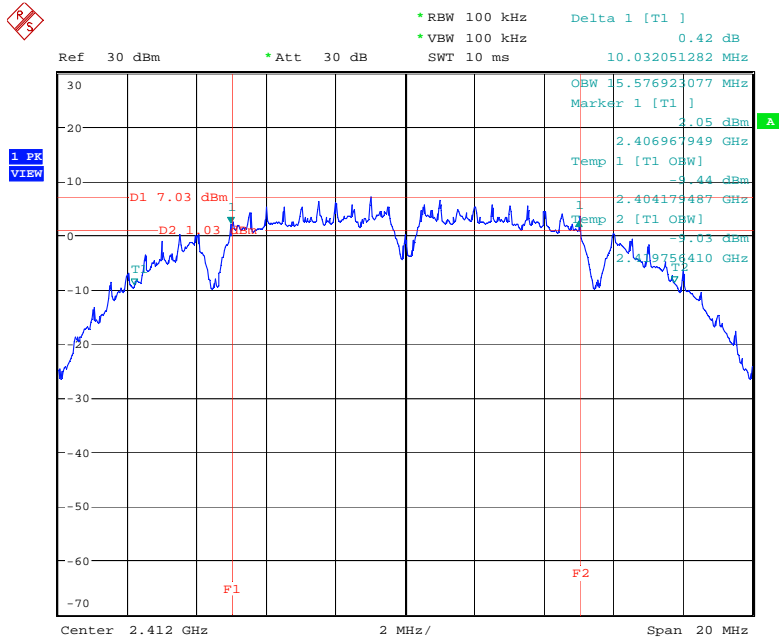
6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



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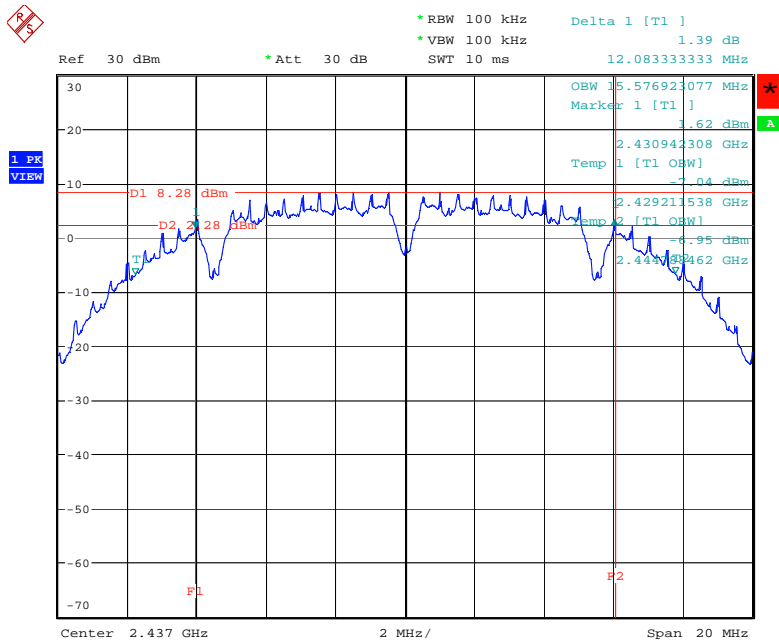
For Ant. 6

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



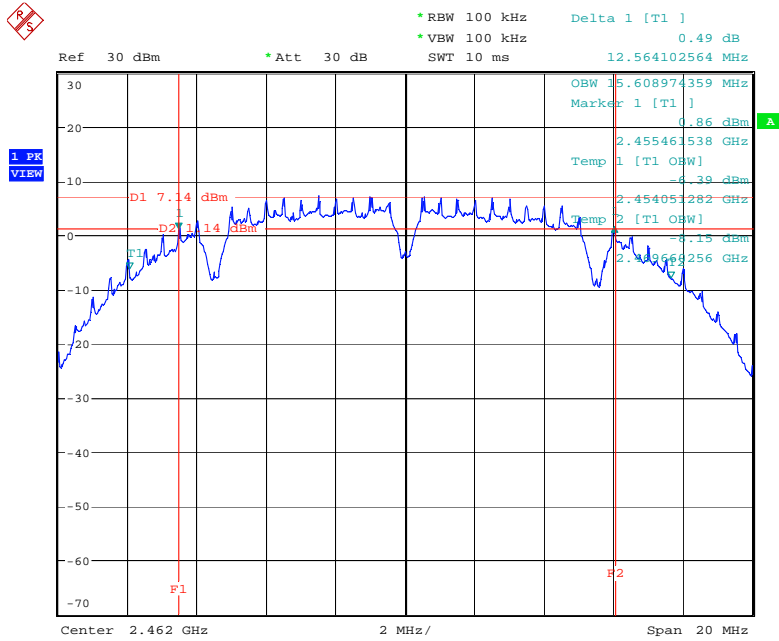
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6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



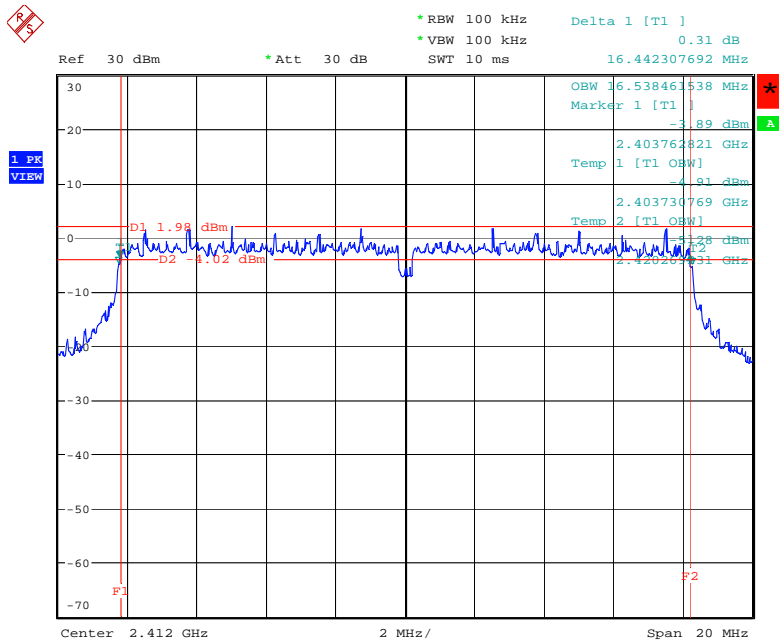
Date: 8.MAY.2006 12:05:47

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



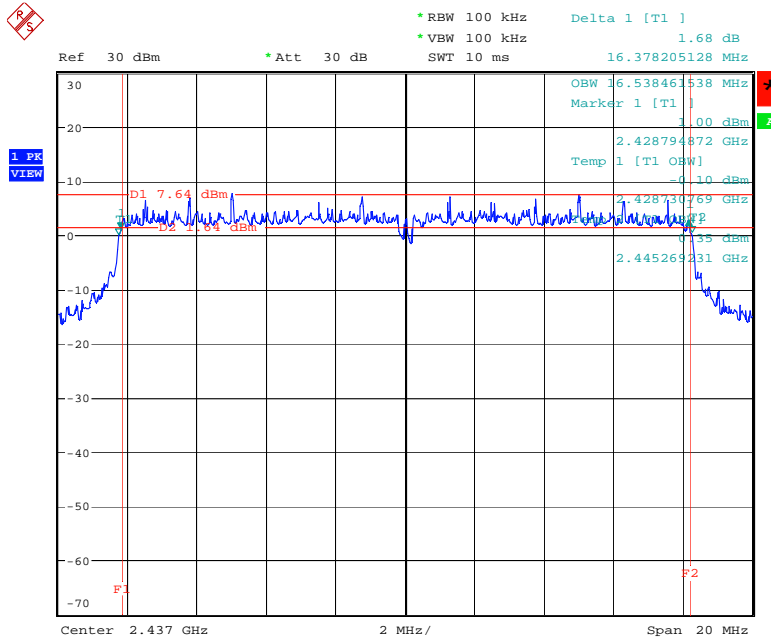
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



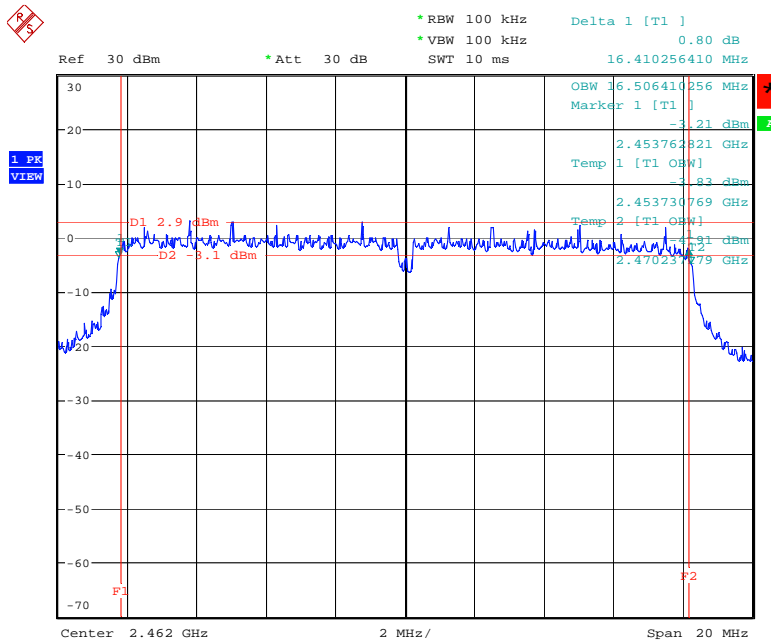
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



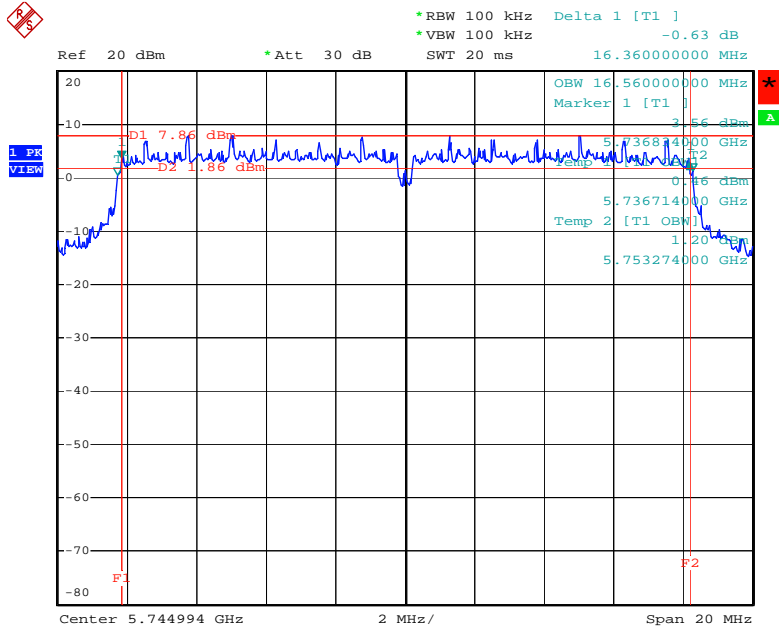
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6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



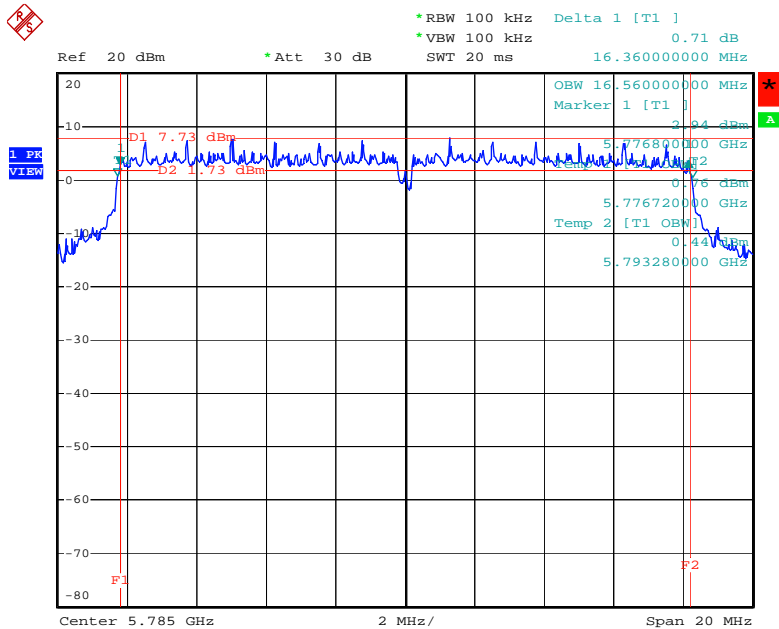
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



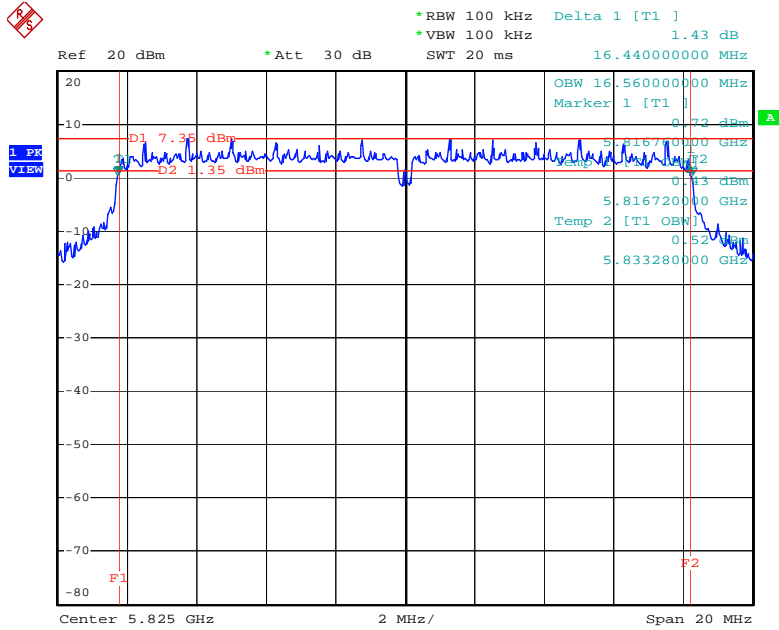
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



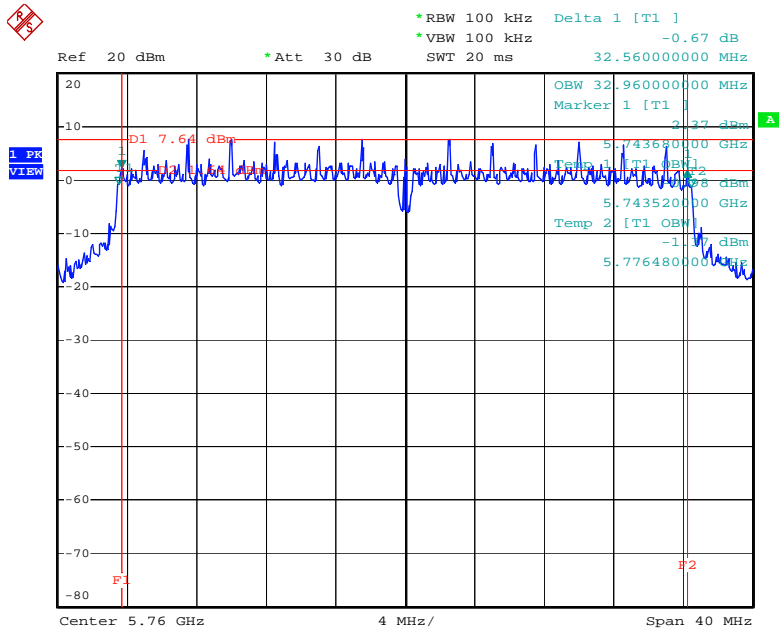
Date: 4.MAY.2006 23:07:55

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



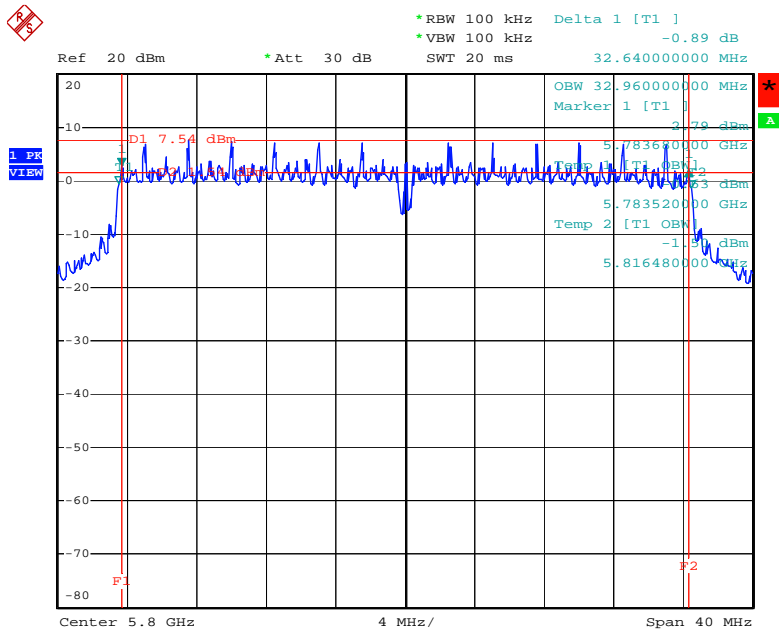
Date: 4.MAY.2006 22:50:38

6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5760 MHz



Date: 5.MAY.2006 18:53:59

6 dB Bandwidth Plot on Configuration IEEE 802.11a Turbo / 5800 MHz



Date: 5.MAY.2006 18:50:15

4.5. Radiated Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

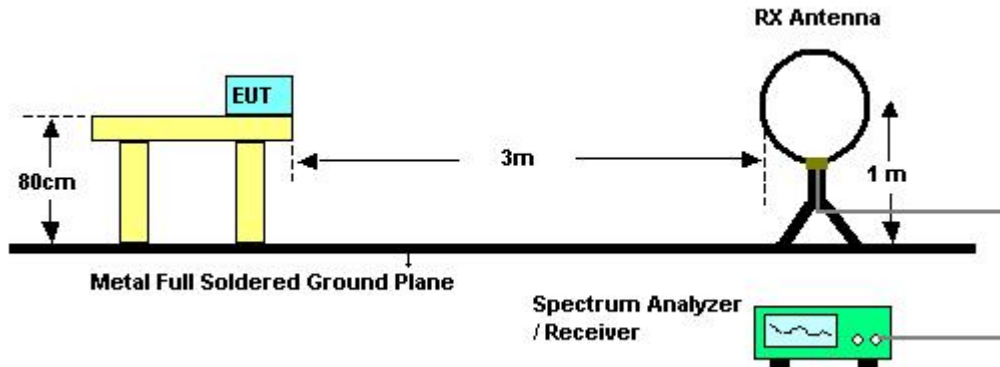
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.5.3. Test Procedures

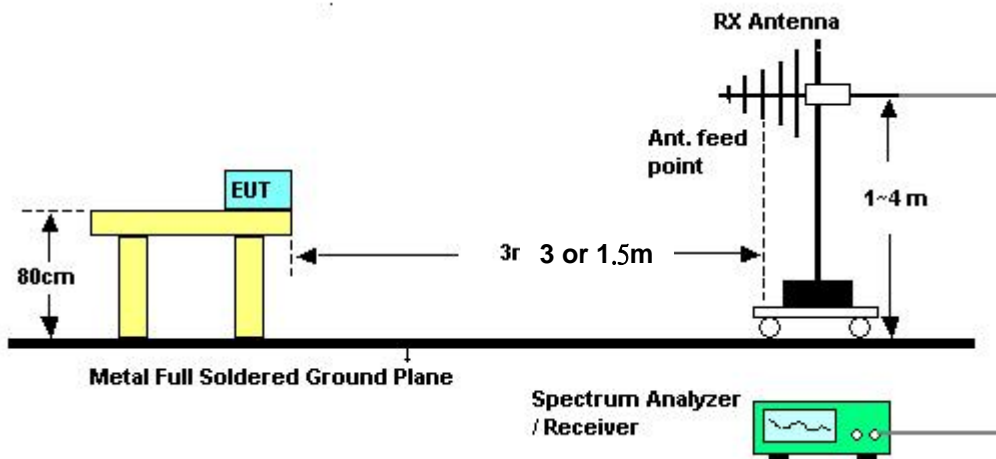
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g Channel 6 / 802.11a Channel 157

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

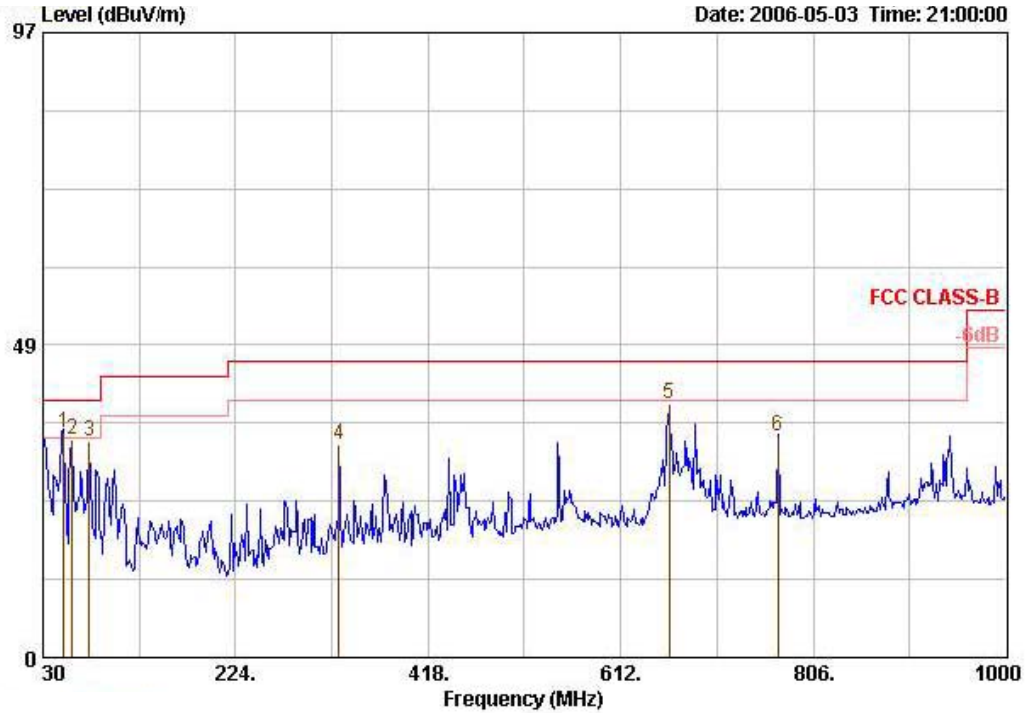
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.5.8. Results of Radiated Emissions (30MHz~1GHz)

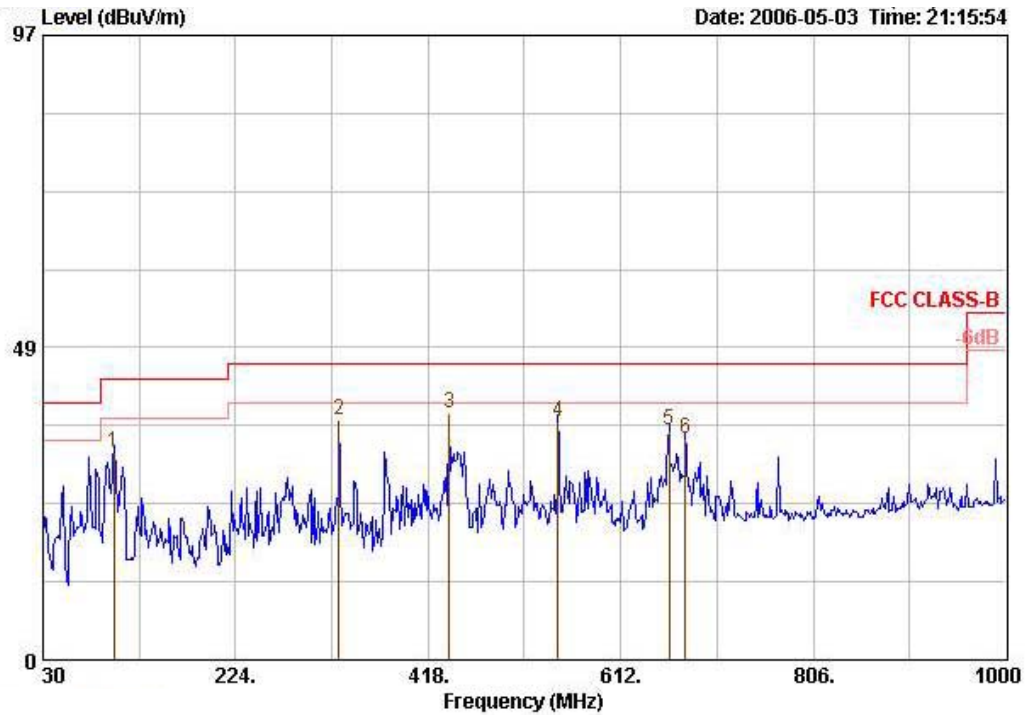
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g Channel 6 / Ant. 1

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line Factor	Cable Loss Factor	Preamp	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	51.340	34.94	-5.06	40.00	7.35	0.61	29.83	56.81	Peak	---	---
2	59.500	33.87	-6.13	40.00	5.45	0.65	29.86	57.63	Peak	---	---
3	76.900	33.59	-6.41	40.00	6.20	0.70	29.97	56.66	Peak	---	---
4	327.790	33.06	-12.94	46.00	13.82	1.43	30.48	48.29	Peak	---	---
5	660.500	39.45	-6.55	46.00	18.90	2.05	30.34	48.84	Peak	---	---
6	770.110	34.45	-11.56	46.00	19.92	2.19	30.09	42.42	Peak	---	---

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Antenna Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBUV/m	dB	dBUV/m	dB/m	dB	dB	dB	dBUV		cm	deg
1	101.780	32.30	-11.20	43.50	10.76	0.81	30.09	50.82	Peak		---	---
2	327.790	37.17	-8.83	46.00	13.82	1.43	30.48	52.40	Peak		---	---
3	439.340	38.33	-7.67	46.00	16.31	1.65	30.46	50.83	Peak		---	---
4	548.950	36.94	-9.06	46.00	18.28	1.87	30.63	47.41	Peak		---	---
5	660.500	35.78	-10.22	46.00	18.90	2.05	30.34	45.18	Peak		---	---
6	676.990	34.28	-11.72	46.00	18.94	2.08	30.37	43.63	Peak		---	---

Note:

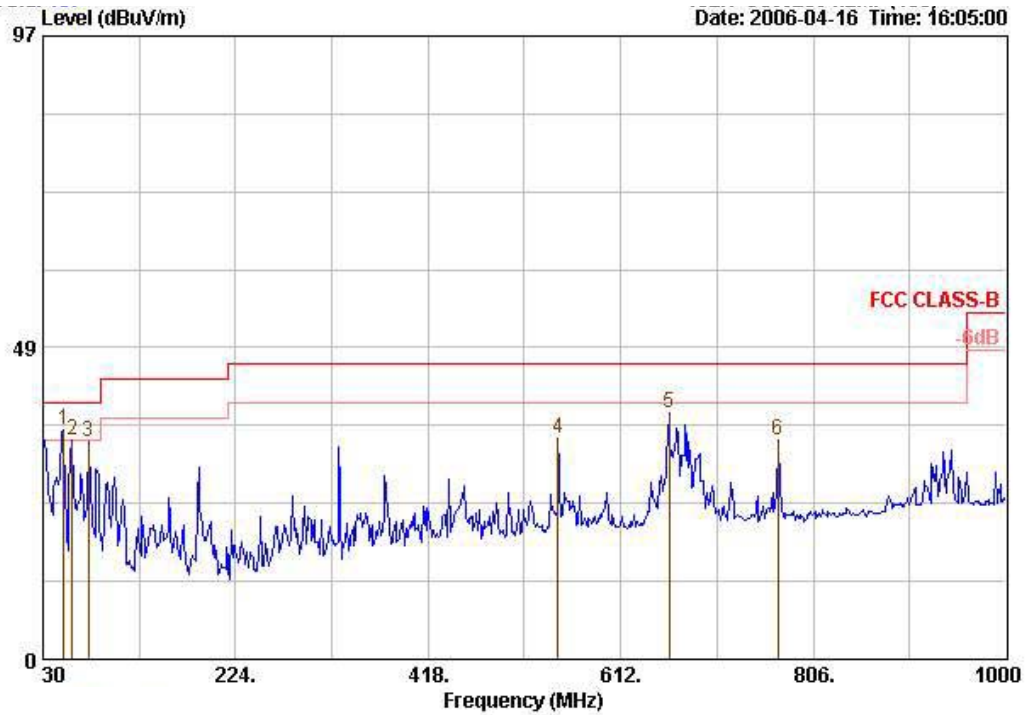
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

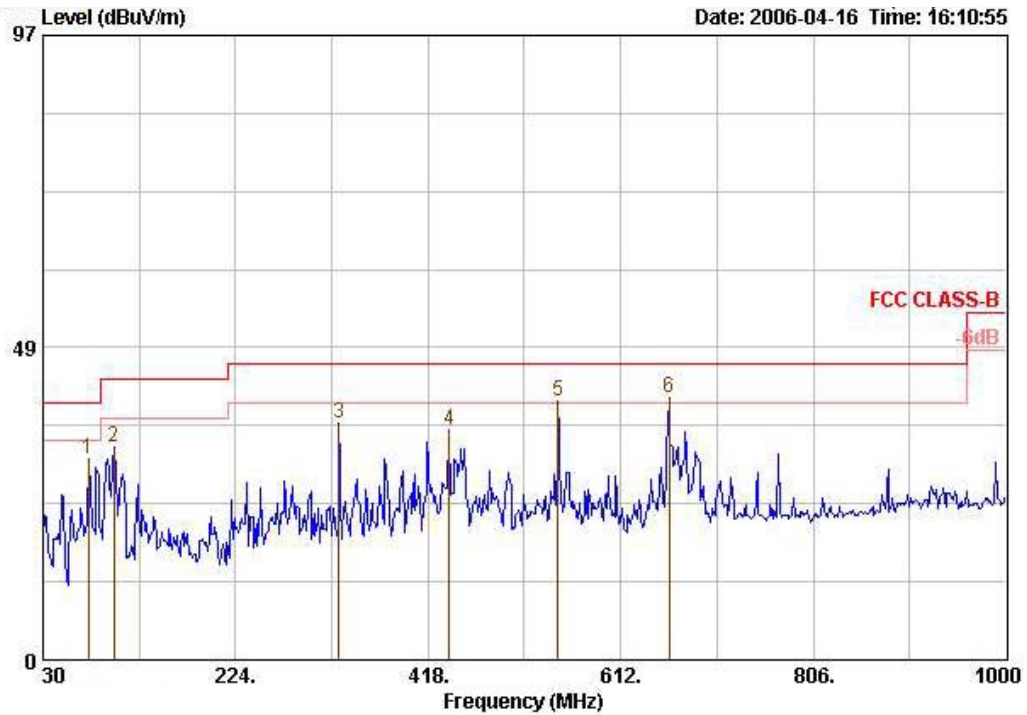
Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11a Channel 157 / Ant. 1

Vertical



	Freq	Level	Over Limit	Limit	Antenna Line	Factor	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m		dB	dB	dBuV		cm	deg
1 @	51.340	35.55	-4.45	40.00	7.35	0.61	29.83	57.42	Peak		---	---
2 @	59.100	34.06	-5.94	40.00	5.45	0.65	29.86	57.83	Peak		---	---
3 @	75.590	33.93	-6.07	40.00	6.20	0.70	29.97	56.99	Peak		---	---
4 @	548.950	34.24	-11.76	46.00	18.28	1.87	30.63	44.71	Peak		---	---
5 @	660.500	38.30	-7.70	46.00	18.90	2.05	30.34	47.69	Peak		---	---
6 @	770.110	34.11	-11.89	46.00	19.92	2.19	30.09	42.09	Peak		---	---

Horizontal



	Freq	Level	Over Limit	Limit	Antenna Line	Cable Loss	Preamp Factor	Read Level	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	dBuV		cm	deg
1 @	75.590	31.25	-8.75	40.00	6.20	0.70	29.97	54.32	Peak	---	---
2 @	101.780	33.07	-10.43	43.50	10.76	0.81	30.09	51.59	Peak	---	---
3 @	327.790	36.64	-9.36	46.00	13.82	1.43	30.48	51.87	Peak	---	---
4 @	439.340	35.60	-10.40	46.00	16.31	1.65	30.46	48.11	Peak	---	---
5 @	548.950	40.06	-5.94	46.00	18.28	1.87	30.63	50.54	Peak	---	---
6 @	660.500	40.79	-5.21	46.00	18.90	2.05	30.34	50.18	Peak	---	---

Note:

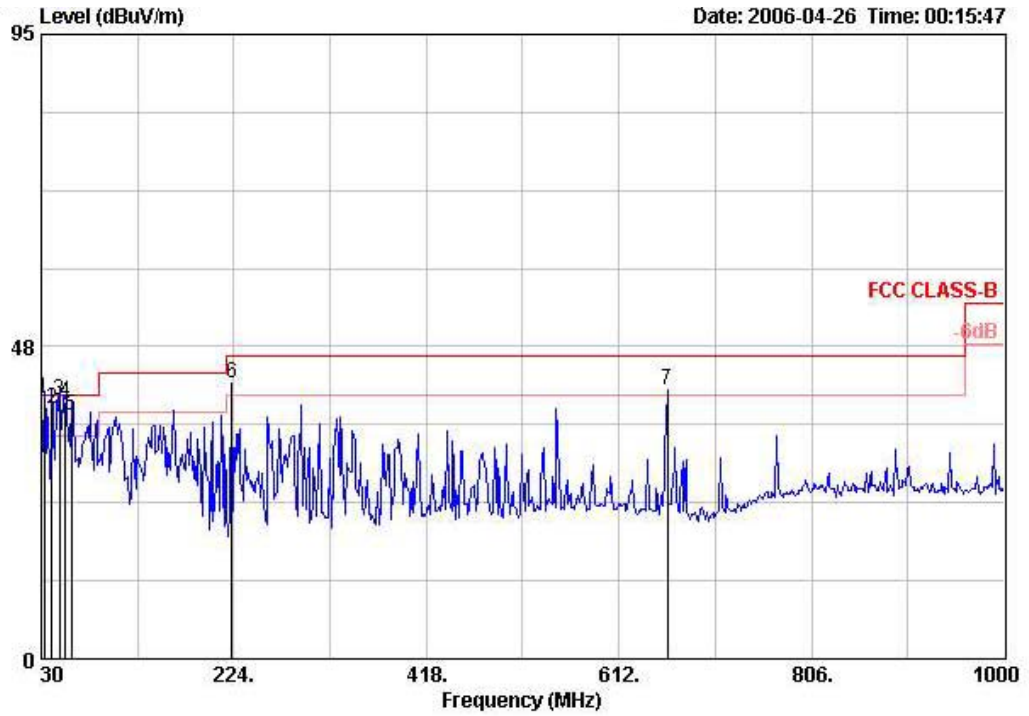
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	63%
Test Engineer	Leo Hung	Configurations	802.11g Channel 6 / Ant. 2

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Pol/Phase	Distance
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB			m
1	32.910	39.66	-0.34	40.00	54.15	16.25	0.93	31.68	QP	VERTICAL	3
2	40.670	38.07	-1.93	40.00	54.82	13.91	1.10	31.77	QP	VERTICAL	3
3	48.430	39.34	-0.66	40.00	59.28	10.79	1.10	31.83	QP	VERTICAL	3
4	54.250	39.18	-0.82	40.00	60.61	9.03	1.23	31.69	QP	VERTICAL	3
5	60.070	37.09	-2.91	40.00	60.26	7.22	1.40	31.79	QP	VERTICAL	3
6	222.060	41.92	-4.08	46.00	59.98	11.22	2.12	31.40	Peak	VERTICAL	3
7	660.500	40.77	-5.23	46.00	50.05	17.55	3.52	30.35	Peak	VERTICAL	3