

EMC TEST REPORT

Report No. : EME-031119

Model No. : DWL-G810

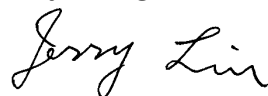
Issued Date : Sep. 24, 2003

Applicant : D-Link Corporation
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Test By : Intertek Testing Services Taiwan Ltd.
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,
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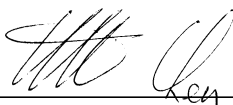
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Project Engineer



Jerry Liu

Reviewed By



Elton Chen

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Summary of Tests**802.11g High-speed Ethernet-to-Wireless Bridge-Model: DWL-G810**
FCC ID: KA2DWLG810

Test	Reference	Results
Minimum 6dB Bandwidth test	15.247(a)(2)	Complies
Maximum Output Power test	15.247(b)	Complies
Radiated Spurious Emission test	15.205, 15.209	Complies
Power Spectrum Density test	15.247(d)	Complies
Power Line Conducted Emission test	15.207	Complies

1. General information

1.1 Identification of the EUT

Applicant	: D-Link Corporation
Product	: 802.11g High-speed Ethernet-to-Wireless Bridge
Model No.	: DWL-G810
FCC ID.	: KA2DWLG810
Frequency Range	: 2412~2462MHz
Channel Number	: 11 channels
Frequency of Each Channel	: 2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz, 2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz
Type of Modulation	: DSSS, OFDM
Rated Power	: 120Vac, 60Hz
Power Cord	: N/A
Sample Received	: Sep. 9, 2003
Test Date(s)	: Sep. 9, 2003 ~ Oct. 2, 2003

A FCC DoC report has been generated for the client.

1.2 Additional information about the EUT

The D-Link AirPlus XtremeG DWL-G810 Ethernet-to-Wireless Bridge is a device that can be implemented in a variety of ways to provide wireless access by converting an Ethernet connection. For devices with a built-in Ethernet port, the DWL-G810 provides a cost effective way to gain wireless connectivity virtually transforming wired devices into wireless units! Connect any Ethernet-enabled device to 802.11g wireless network and legacy 802.11g wireless network using the DWL-G810.

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain : 2 dBi max

Antenna Type : Dipole antenna

Connector Type : SMA-R

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.	FCC ID
Notebook 1	Twinhead	P79T	H0905483	FCC DoC Approved
Notebook 2	DELL	PP01L	CN-06P83-48643-33V-0112	FCC DoC Approved
Wireless LAN CardBus	BUFFALO	WLI-CB-G54A	0007407964D4	FCC DoC Approved

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section § 15.205 、 §15.207 、 §15.209 、 §15.247 and ANSI C63.4/2001.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

During conducted emission test, the EUT was operated in normal mode, communicating with a wireless LAN Card; while in other tests, it worked in the status of continuously transmitting.

After verifying the maximum output power, we found the maximum output power was occurred at 54Mbps/11Mbps data rate. The final test was executed under this condition and recorded in this report individually.

2.3 Test equipment

Equipment	Brand	Frequency range	Model No.	Series No.	Last Cal.Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	825788/014	Feb. 18, 2003
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	825428/005	June 10, 2003
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	July 10, 2003
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	100186	Oct. 9, 2002
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5890	Sep. 19, 2002
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	June 21, 2003
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3133	Feb. 21, 2003
Turn Table	HDGmbH	N/A	DS 420S	420/669/01	N/A
Antenna Tower	HDGmbH	N/A	MA 240	240/573	N/A
Microwave Amplifier	Agilent	2GHz~26.5GHz	8348A	3111A00567	Dec. 20, 2002
Crystal Detector	Agilent	10MHz~18GHz	8472B	MY42240243	N/A
Signal Generator	Rohde & Schwarz	20MHz~27GHz	SMR27	100036	Aug. 15, 2003
Two Channel Digital Storage Oscilloscope	Tektronix	N/A	TDS1012	C031679	Aug. 16, 2003

Note:

1. The calibration interval of the above instruments is 12 months.

3. Minimum 6dB Bandwidth test

3.1 Operating environment

Temperature: 24 °C
 Relative Humidity: 53 %
 Atmospheric Pressure 1023 hPa

3.2 Test setup & procedure

The minimum 6dB bandwidth per FCC §15.247(a)(2) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 100kHz, the video bandwidth set at 300kHz, and the SPAN>>RBW. The test was performed at 3 channels (lowest, middle and highest channel). The minimum 6-dB modulation bandwidth is in the following Table.

3.3 Measured data of Minimum 6dB Bandwidth test results

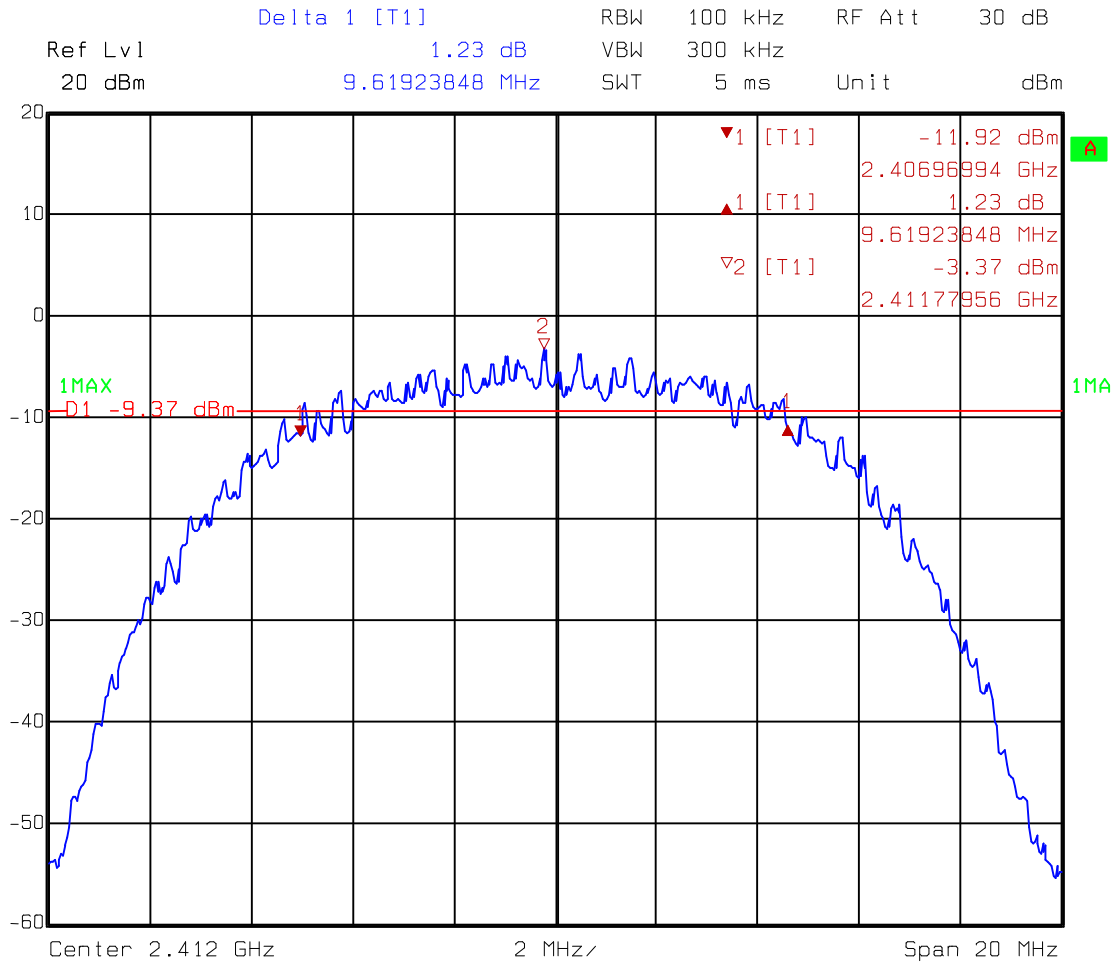
Test Condition: 802.11b operation (DSSS modulation)

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
Low	2412	9.61924	> 500kHz
Middle	2437	9.61924	> 500kHz
High	2462	9.61924	> 500kHz

Test Condition: 802.11g operation (OFDM modulation)

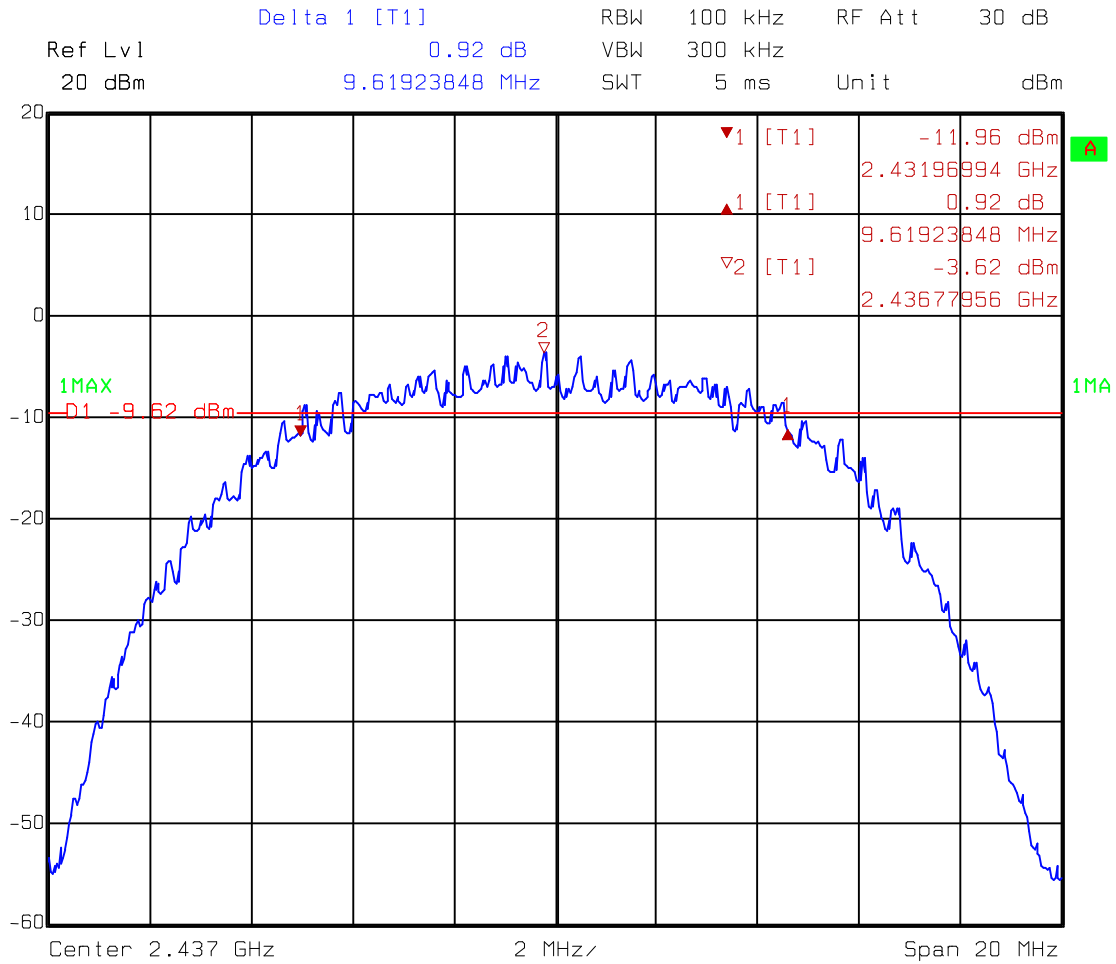
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
Low	2412	15.63126	> 500kHz
Middle	2437	15.59118	> 500kHz
High	2462	15.55110	> 500kHz

Please see the plot below.



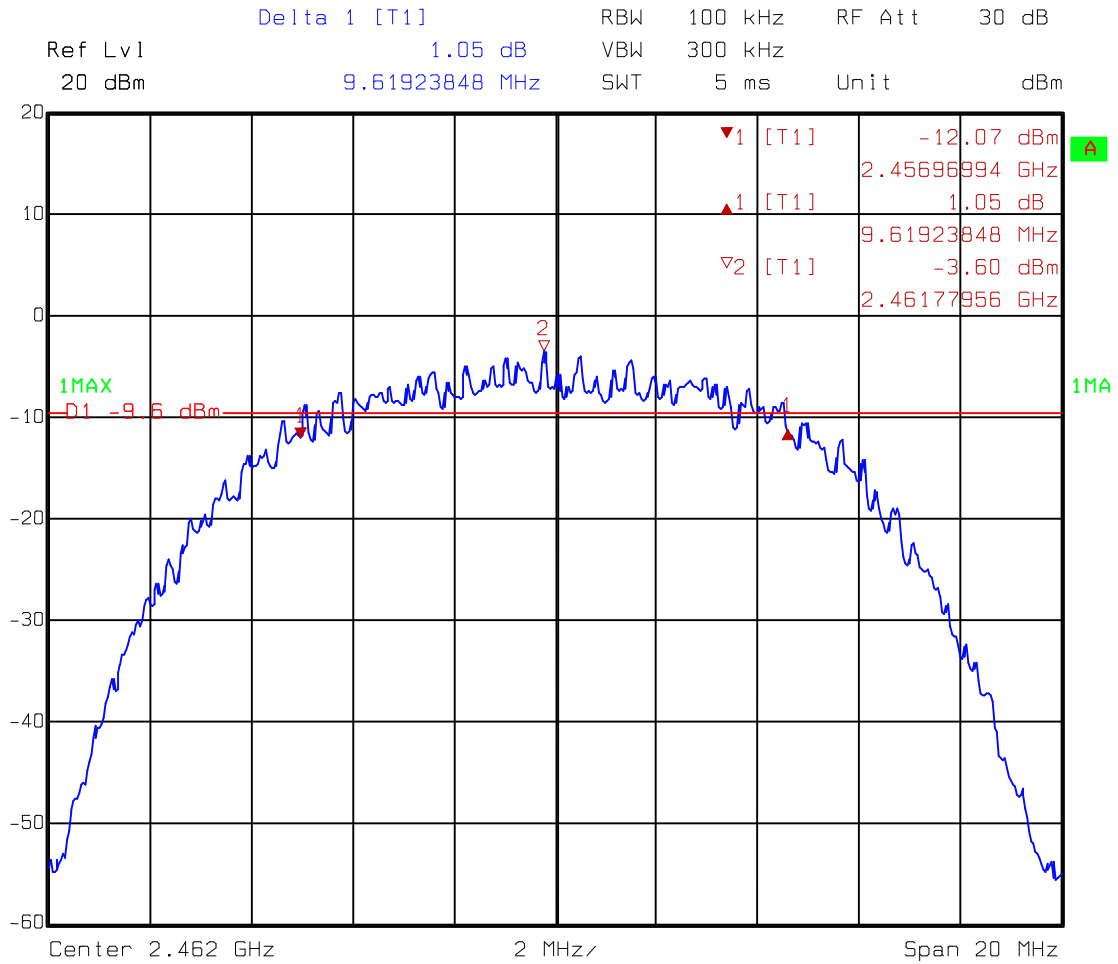
Comment A: 6dB bandwidth at low channel (EC365) 802.11b

Date: 02.OCT.2003 17:23:58

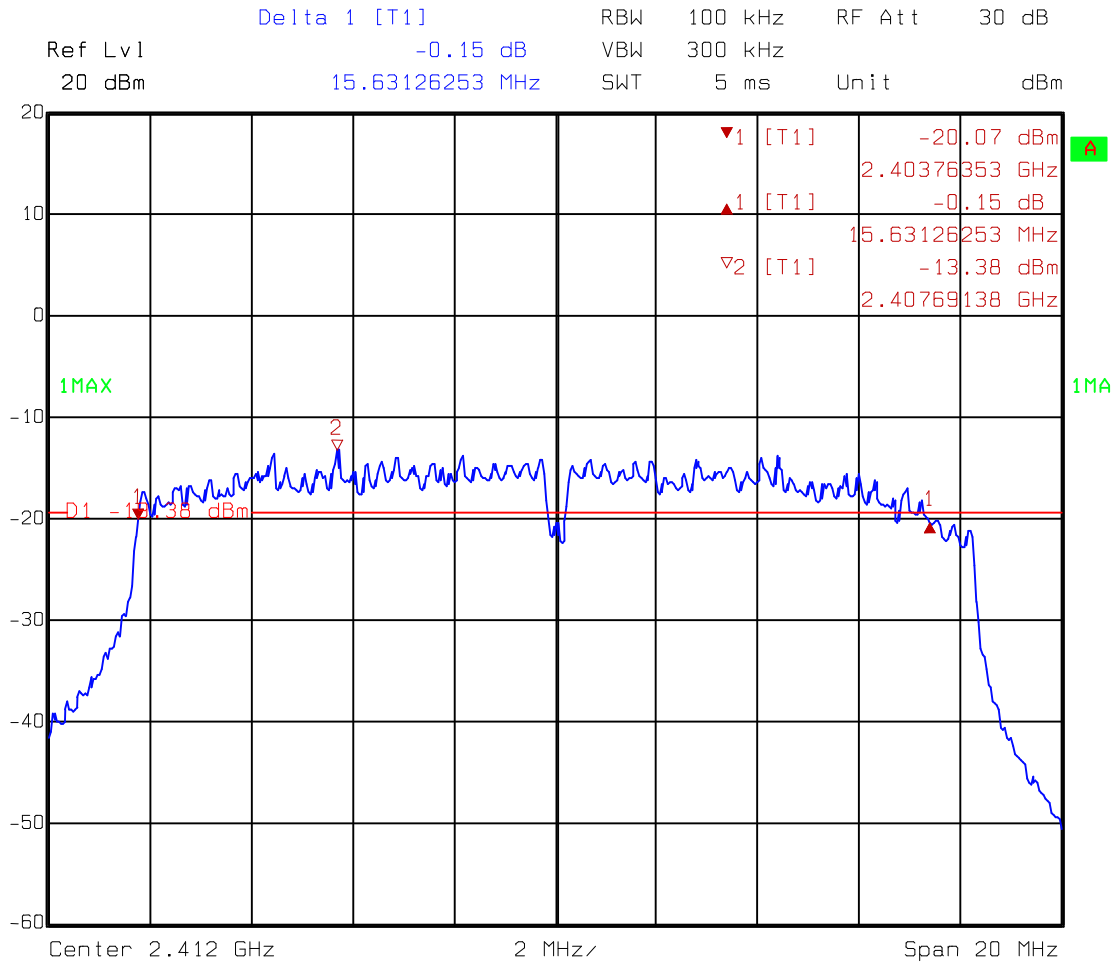


Comment A: 6dB bandwidth at middle channel (EC365) 802.11b

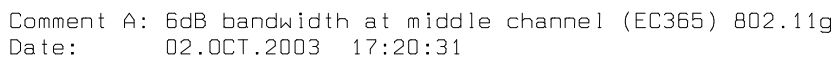
Date: 02.OCT.2003 17:18:50

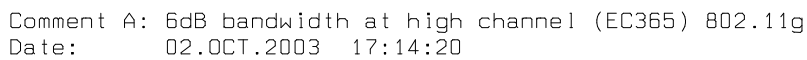


Comment A: 6dB bandwidth at high channel (EC365) 802.11b
Date: 02.OCT.2003 17:16:45



Comment A: 6dB bandwidth at low channel (EC365) 802.11g
Date: 02.OCT.2003 17:22:21





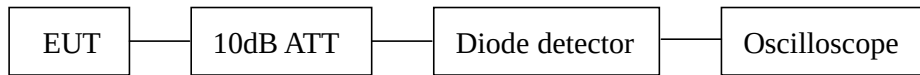
4. Maximum Output Power test

4.1 Operating environment

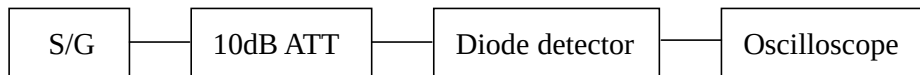
Temperature: 24 °C
 Relative Humidity: 53 %
 Atmospheric Pressure 1023 hPa

4.2 Test setup & procedure

A:



B:



1. The output of the transmitter via a 10 dB attenuator and coupled to a diode detector.
2. The output of the diode detector connected to the vertical channel of an oscilloscope. The observed trace of the oscilloscope shall be recorded as “A”.
3. The transmitter replaced by a signal generator. The output frequency of the signal made equal to the center of the frequency range occupied by the transmitter and unmodulated.
4. The output of the signal generator raised to reach the peak of trace “A” named X.
5. The signal generator output level X (dBm) is the transmitter peak output power.

4.3 Measured data of Maximum Output Power test results

Test Condition: 802.11b operation (DSSS modulation)

Channel	Frequency (MHz)	Reading (dBm)	Output Power		Limit (dBm)
			(dBm)	(mW)	
Lowest	2412	13.83	13.83	24.15	30
Middle	2437	13.43	13.43	22.03	30
Highest	2462	12.53	12.53	17.91	30

Test Condition: 802.11g operation (OFDM modulation)

Channel	Frequency (MHz)	Reading (dBm)	Output Power		Limit (dBm)
			(dBm)	(mW)	
Lowest	2412	14.93	14.93	31.12	30
Middle	2437	14.53	14.53	28.38	30
Highest	2462	14.83	14.83	30.41	30

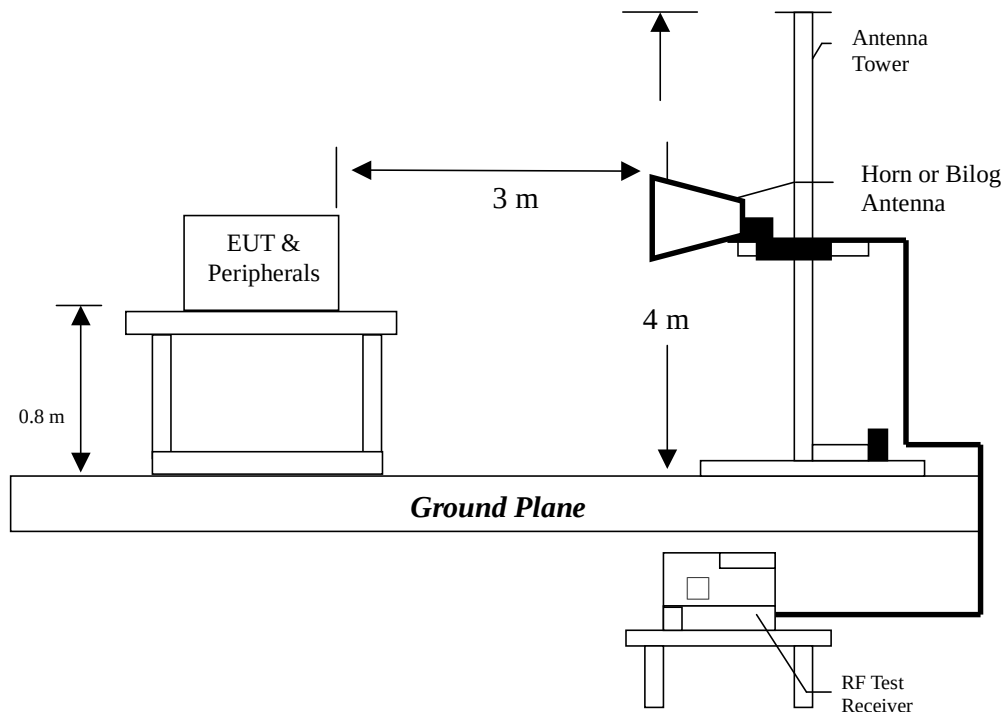
5. Radiated Emission test

5.1 Operating environment

Temperature:	23	°C	(10-40°C)
Relative Humidity:	58	%	(10-90%)
Atmospheric Pressure	1023	hPa	(860-1060hPa)

5.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

5.3 Emission limits

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is ± 4.98 dB.

Expanded uncertainty (k=2) of conducted emission measurement is ± 2.02 dB.

5.4 Radiated spurious emission test data

5.4.1 Measurement results: frequencies equal to or less than 1 GHz

The radiated spurious emissions at

Frequency(MHz)	Margin
249.00000	-1.93
349.00000	-4.43
450.00000	-4.36

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

EUT : DWL-G810

Worst Case Condition : 802.11b (DSSS modulation) Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
349.99000	QP	V	15.56	22.38	37.94	46.00	-8.06	339	91
450.00000	QP	V	17.86	22.64	40.50	46.00	-5.50	142	303
480.00000	QP	V	18.61	12.08	30.69	46.00	-15.31	120	66
549.00000	QP	V	19.60	14.26	33.86	46.00	-12.14	152	337
799.00000	QP	V	23.49	8.90	32.39	46.00	-13.61	154	44
960.00000	QP	V	25.81	9.21	35.02	46.00	-10.98	187	247
249.00000	QP	H	12.85	31.22	44.07	46.00	-1.93	188	300
349.00000	QP	H	15.56	26.01	41.57	46.00	-4.43	252	40
450.00000	QP	H	17.86	23.78	41.64	46.00	-4.36	100	236
549.00000	QP	H	19.60	16.09	35.69	46.00	-10.31	100	50
799.00000	QP	H	23.49	7.94	31.43	46.00	-14.57	281	333
960.00000	QP	H	25.81	9.79	35.60	46.00	-10.40	158	109

Remark:

1. Corrected Level = Reading Level + Correction Factor

2. Correction Factor = Antenna Factor + Cable Loss

The radiated spurious emissions at

Frequency(MHz)	Margin
450.08000	-2.56

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

EUT : DWL-G810

Worst Case Condition : 802.11g (OFDM modulation) Tx at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
249.99000	QP	V	12.85	25.94	38.79	46.00	-7.21	100	113
349.99000	QP	V	15.56	25.03	40.59	46.00	-5.41	121	97
449.99000	QP	V	17.86	19.46	37.32	46.00	-8.68	278	338
479.99000	QP	V	18.21	18.25	36.46	46.00	-9.54	111	267
549.98000	QP	V	19.60	15.22	34.82	46.00	-11.18	100	200
649.99000	QP	V	21.32	9.43	30.75	46.00	-15.25	153	206
249.98000	QP	H	12.85	26.37	39.22	46.00	-6.78	127	262
319.99000	QP	H	14.45	11.26	25.71	46.00	-20.29	340	114
349.99000	QP	H	15.56	24.19	39.75	46.00	-6.25	267	258
450.08000	QP	H	17.86	25.58	43.44	46.00	-2.56	100	208
479.97000	QP	H	18.21	9.13	27.34	46.00	-18.66	119	347
549.99000	QP	H	19.60	12.02	31.62	46.00	-14.38	299	84

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

5.4.2 Measurement results: frequency above 1GHz

EUT : DWL-G810

Test Condition : Tx at low, middle and high channel

Test Result:

No spurious emission was found above the spectrum analyzer's noise floor.

The noise floor are listed as below:

For PK:

1GHz-3GHz: 50dBuV

3GHz-14GHz: 54dBuV

14GHz-26.5GHz: 60dBuV

For AV:

1GHz-3GHz: 41.5dBuV

3GHz-14GHz: 46dBuV

14GHz-26.5GHz: 46.5dBuV

6. Power Spectrum Density test

6.1 Operating environment

Temperature: 23 °C
 Relative Humidity: 53 %
 Atmospheric Pressure 1023 hPa

6.2 Test setup & procedure

The power spectrum density per FCC §15.247(d) was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 3kHz, the video bandwidth set at 10kHz, a span of 1.5 MHz, and the sweep time set at 500 seconds. Power Density was read directly and cable loss (2.13dB)/external attenuator (10dB) correction was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel). The Power Spectral Density measured result is in the following table.

6.3 Measured data of Power Spectrum Density test results

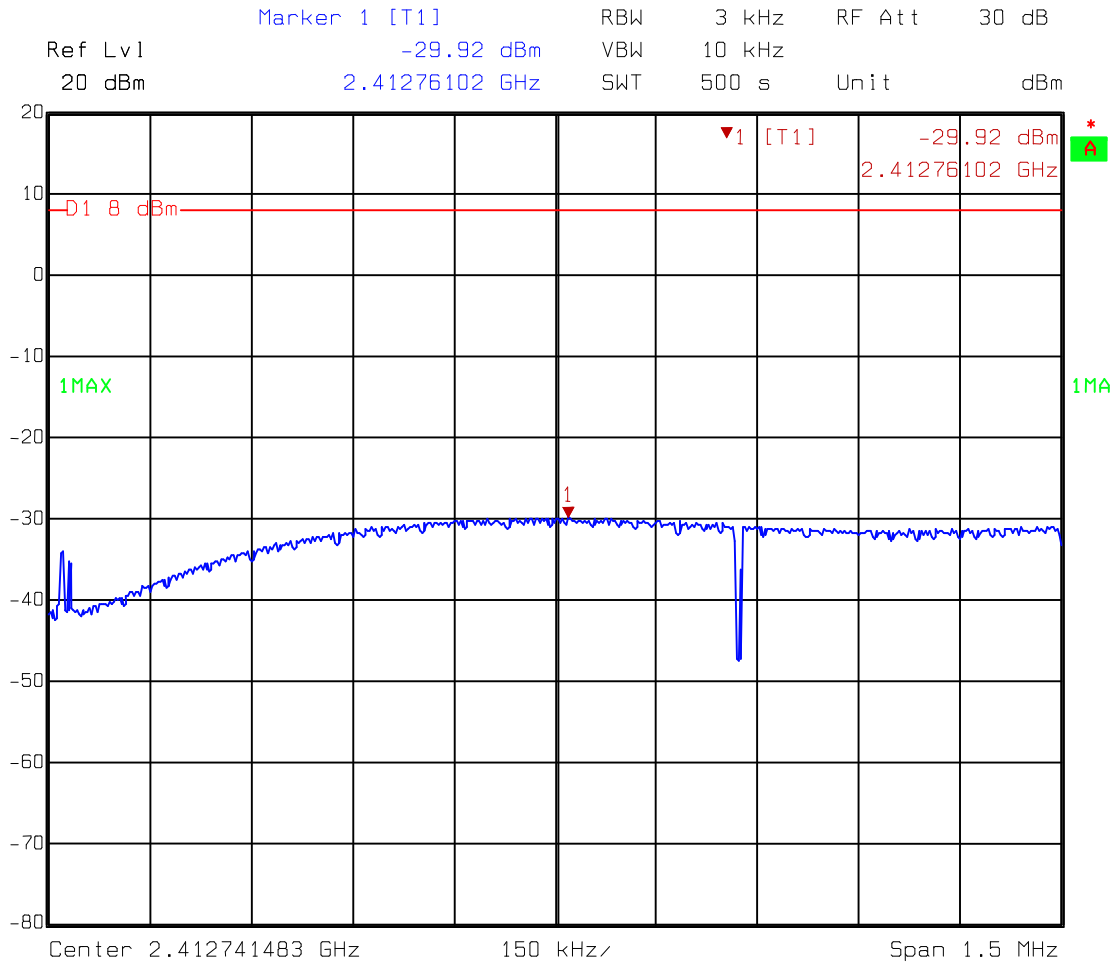
Test Condition: 802.11b operation (DSSS modulation)

Channel	Frequency (MHz)	Measured level (dBm)	Limit (dBm)
Low	2.41276	-17.79	8
Middle	2.43768	-20.24	8
High	2.46136	-20.35	8

Test Condition: 802.11g operation (OFDM modulation)

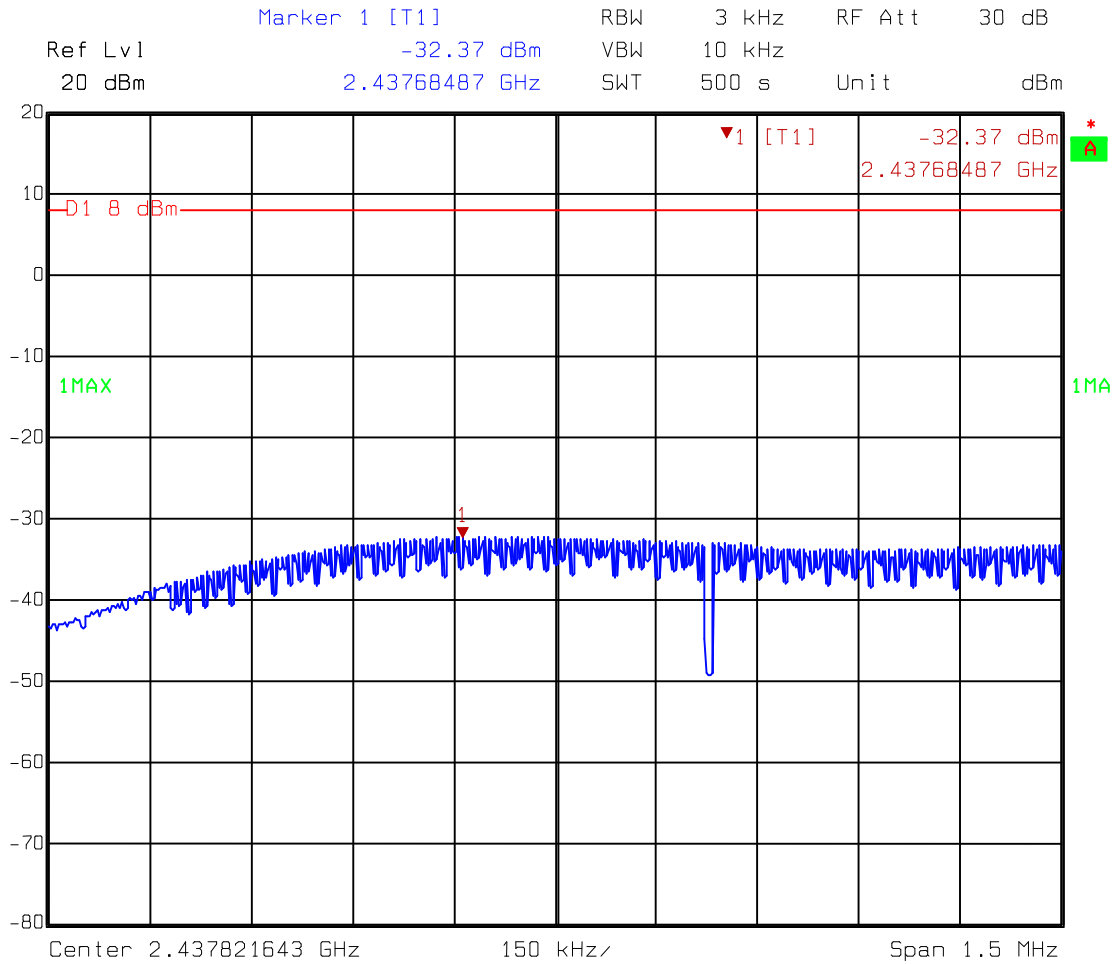
Channel	Frequency (MHz)	Measured level (dBm)	Limit (dBm)
Low	2.41017	-24.49	8
Middle	2.43516	-24.31	8
High	2.46023	-24.62	8

Please see the plot below.



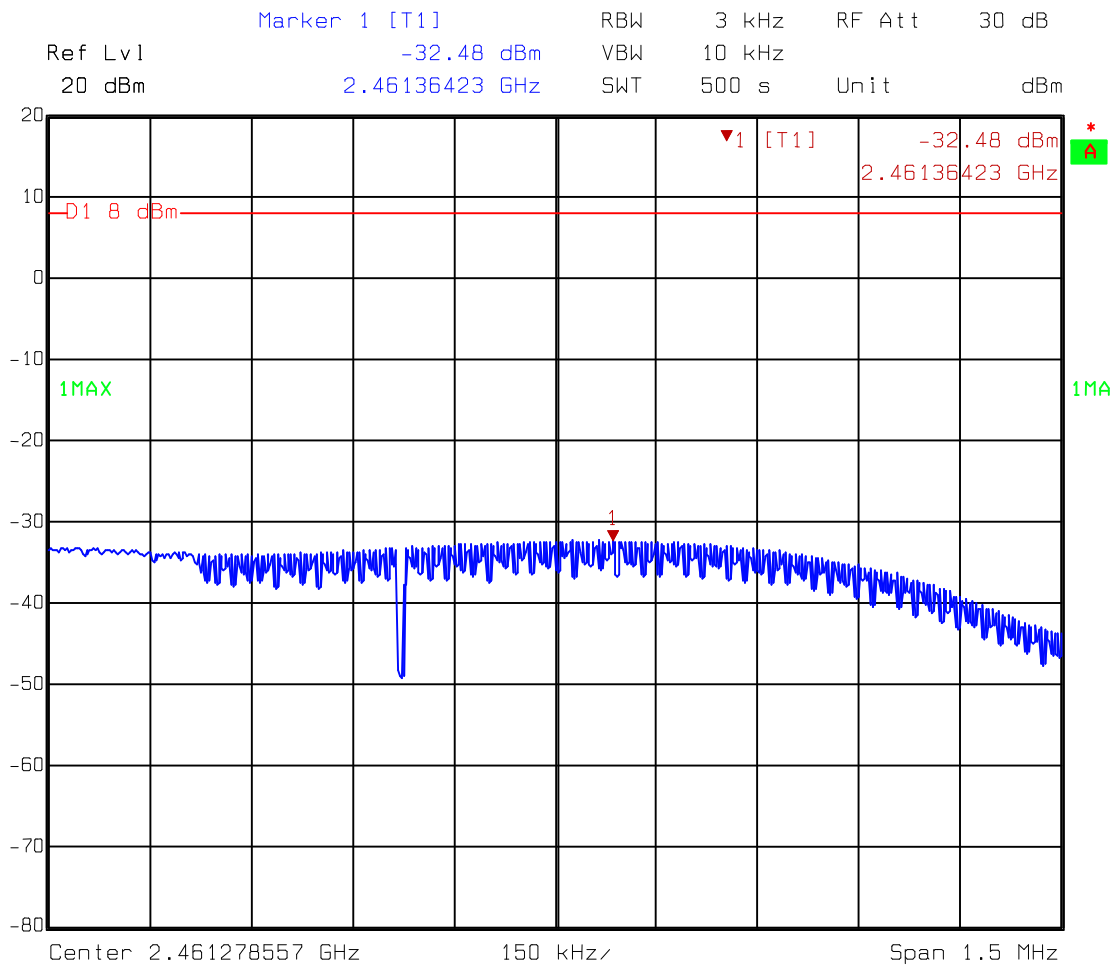
Comment A: Power spectrum density at low channel
ATT=10dB CL=2.13 802.11b

Date: 09.SEP.2003 22:43:40

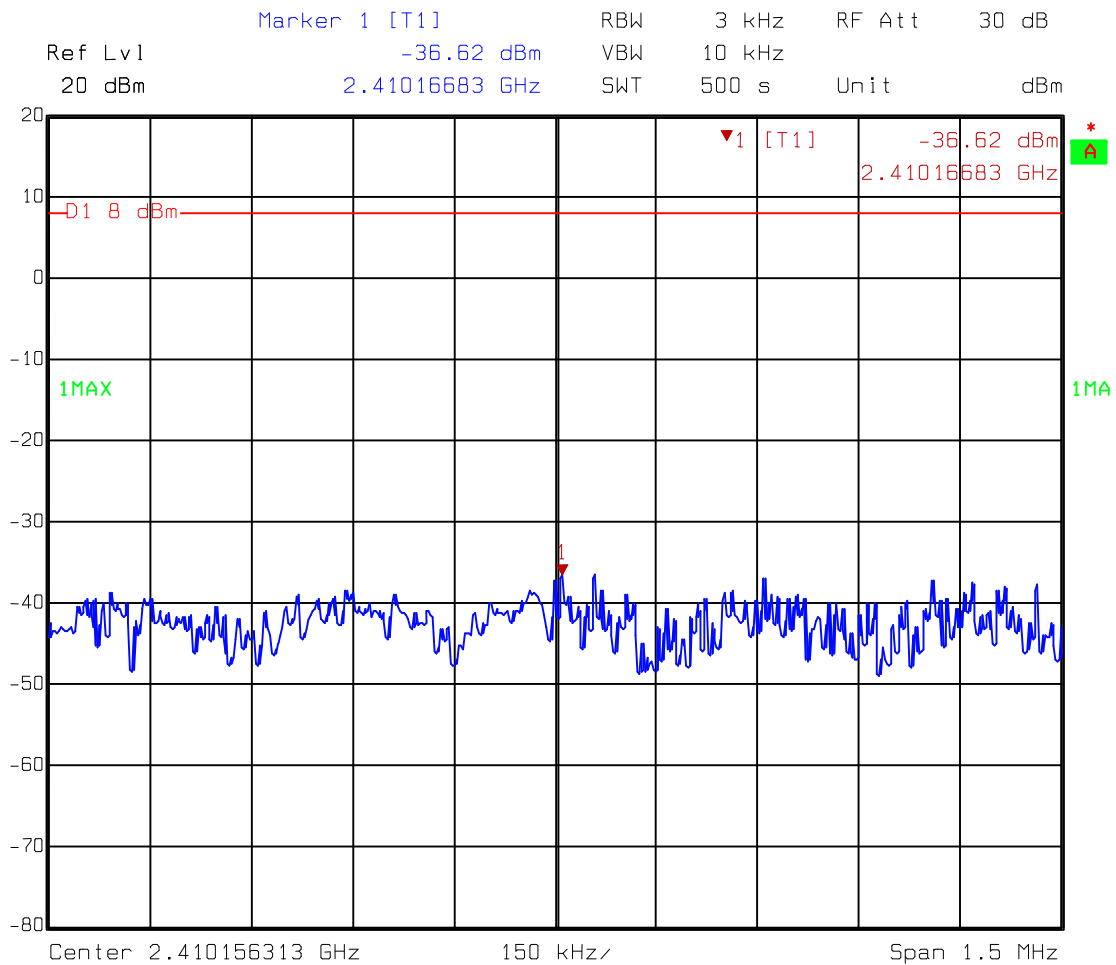


Comment A: Power spectrum density at middle channel
ATT=10dB CL=2.13 802.11b EC365

Date: 09.SEP.2003 22:55:46

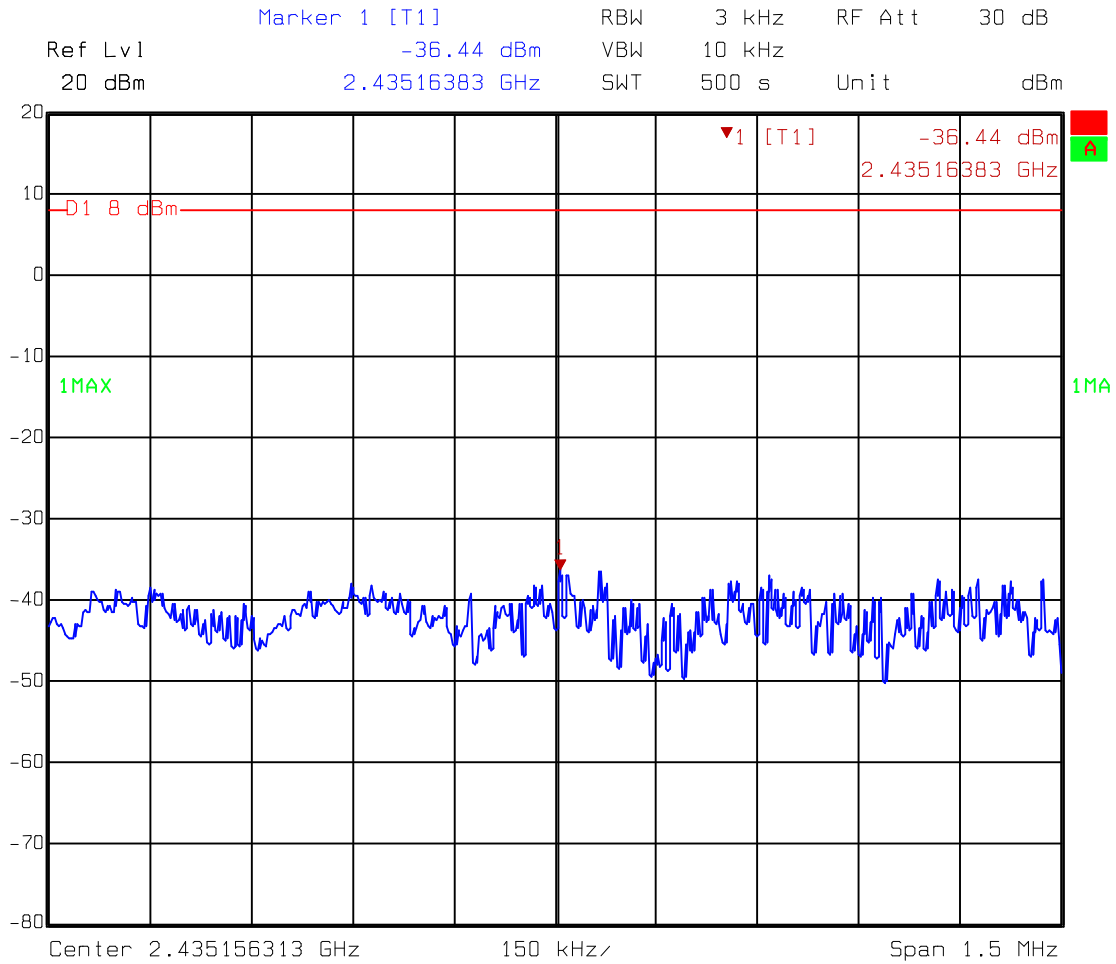


Comment A: Power spectrum density at high channel
ATT=10dB CL=2.13 802.11b EC365
Date: 09.SEP.2003 23:03:56



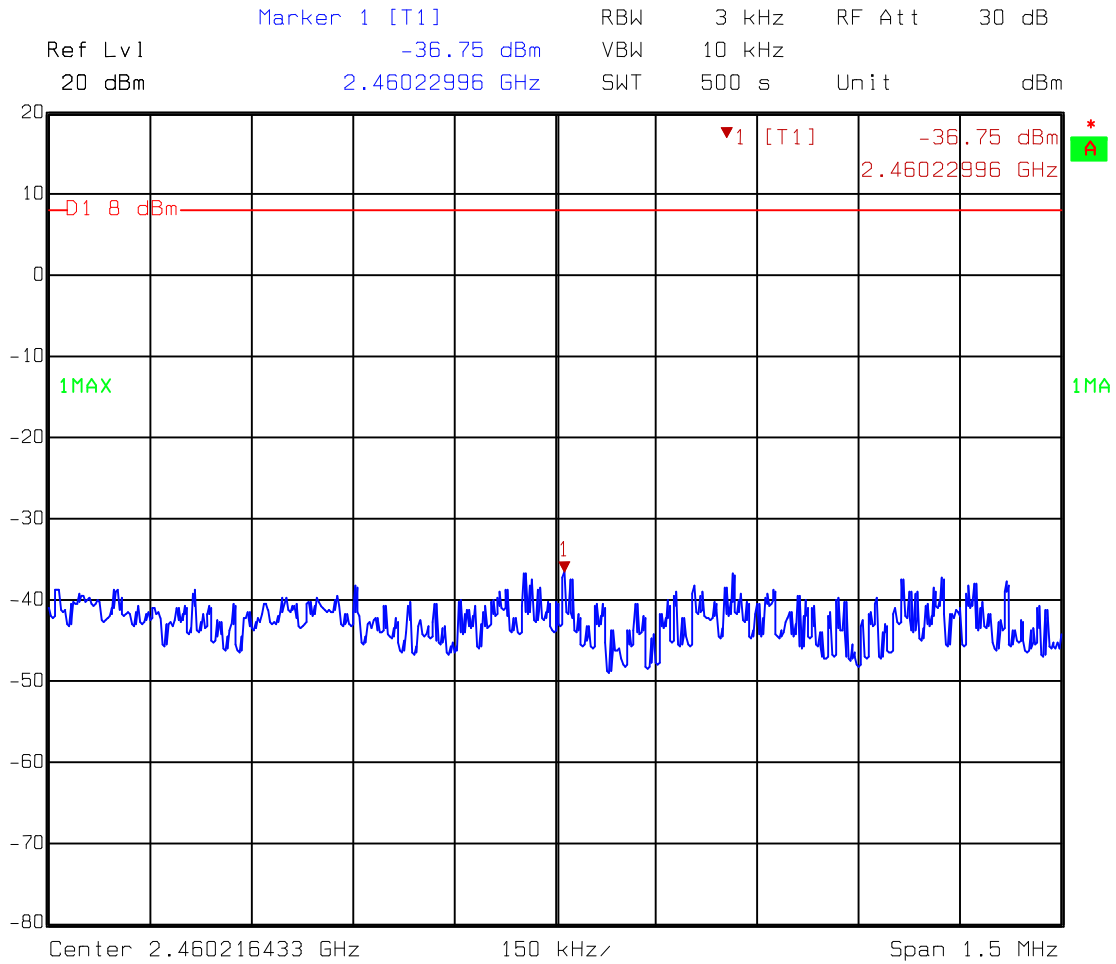
Comment A: Power spectrum density at low channel
 ATT=10dB CL=2.13 802.11g (EC365)

Date: 09.SEP.2003 22:47:30



Comment A: Power spectrum density at middle channel
ATT=10dB CL=2.13 802.11g

Date: 09.SEP.2003 22:51:34



Comment A: Power spectrum density at high channel

CL=2.13 802.11g EC365

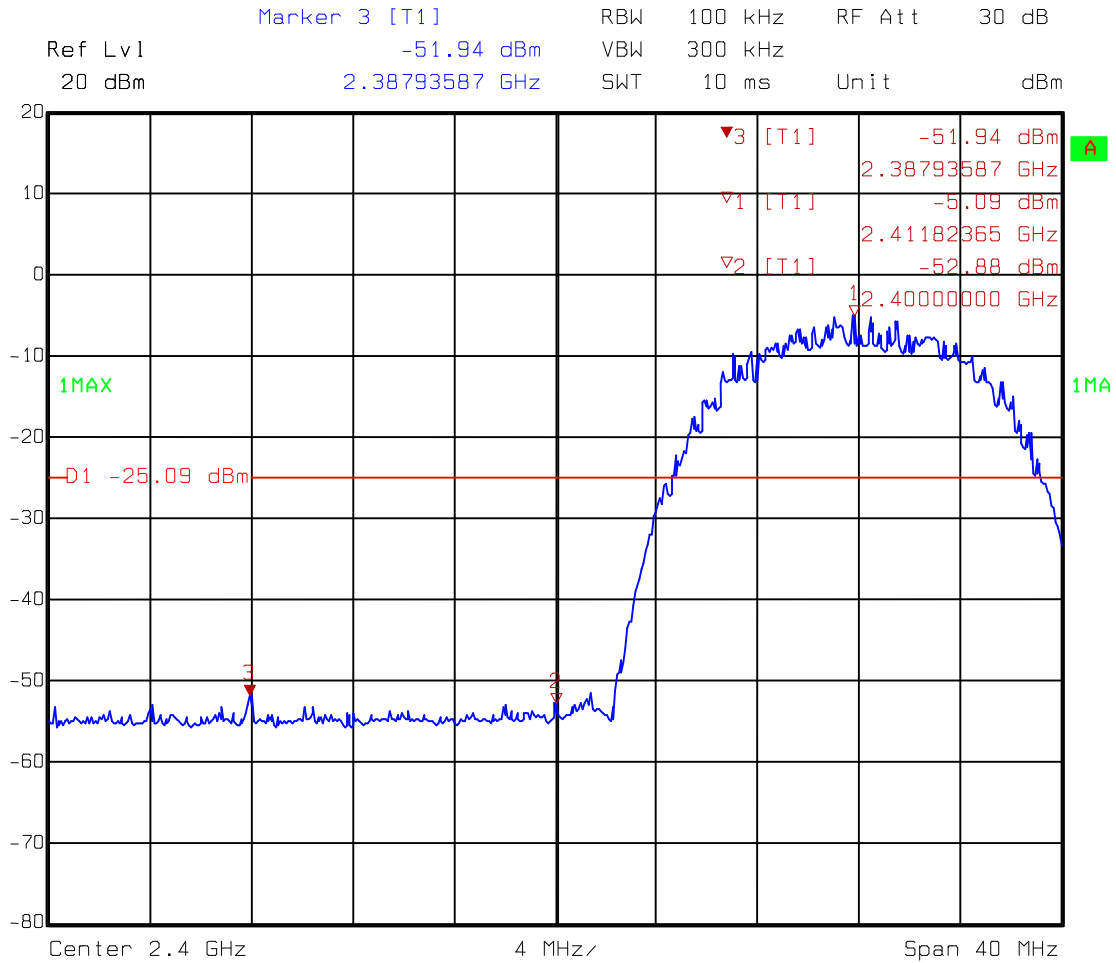
Date: 09.SEP.2003 22:59:13

7. Emission on the band edge §FCC 15.247(C)

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

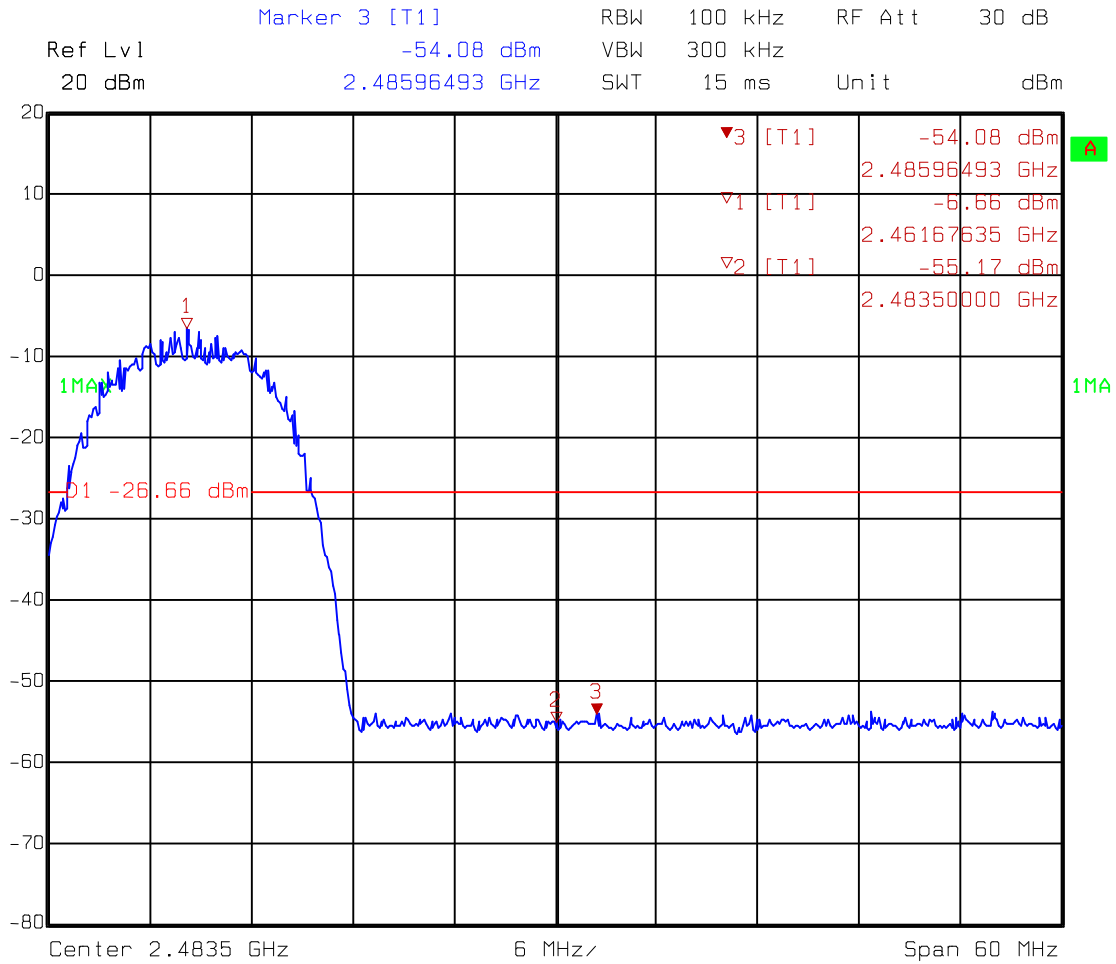
Please see the plot below.

7.1 Band-edge (Conducted method)



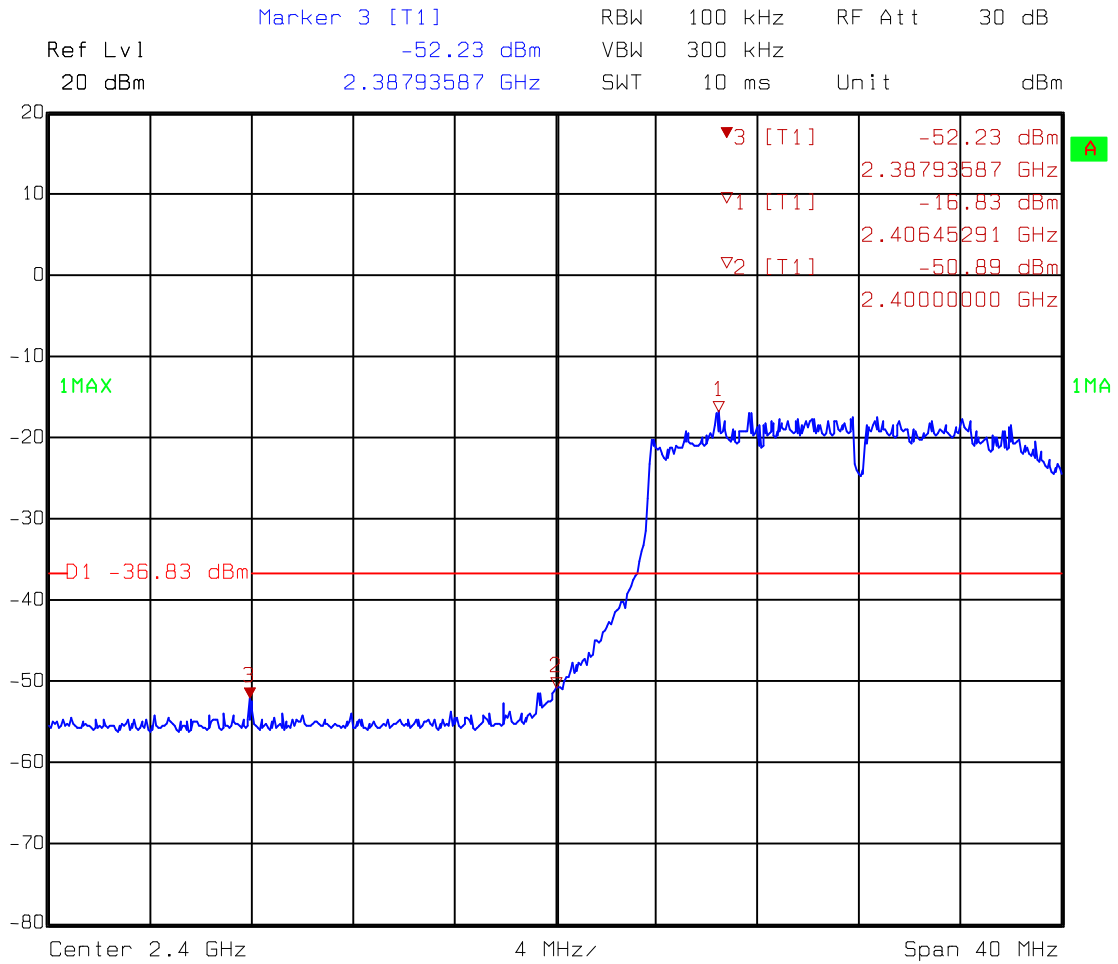
Comment A: Band-edge at low channel 802.11b

Date: 06.OCT.2003 17:46:52

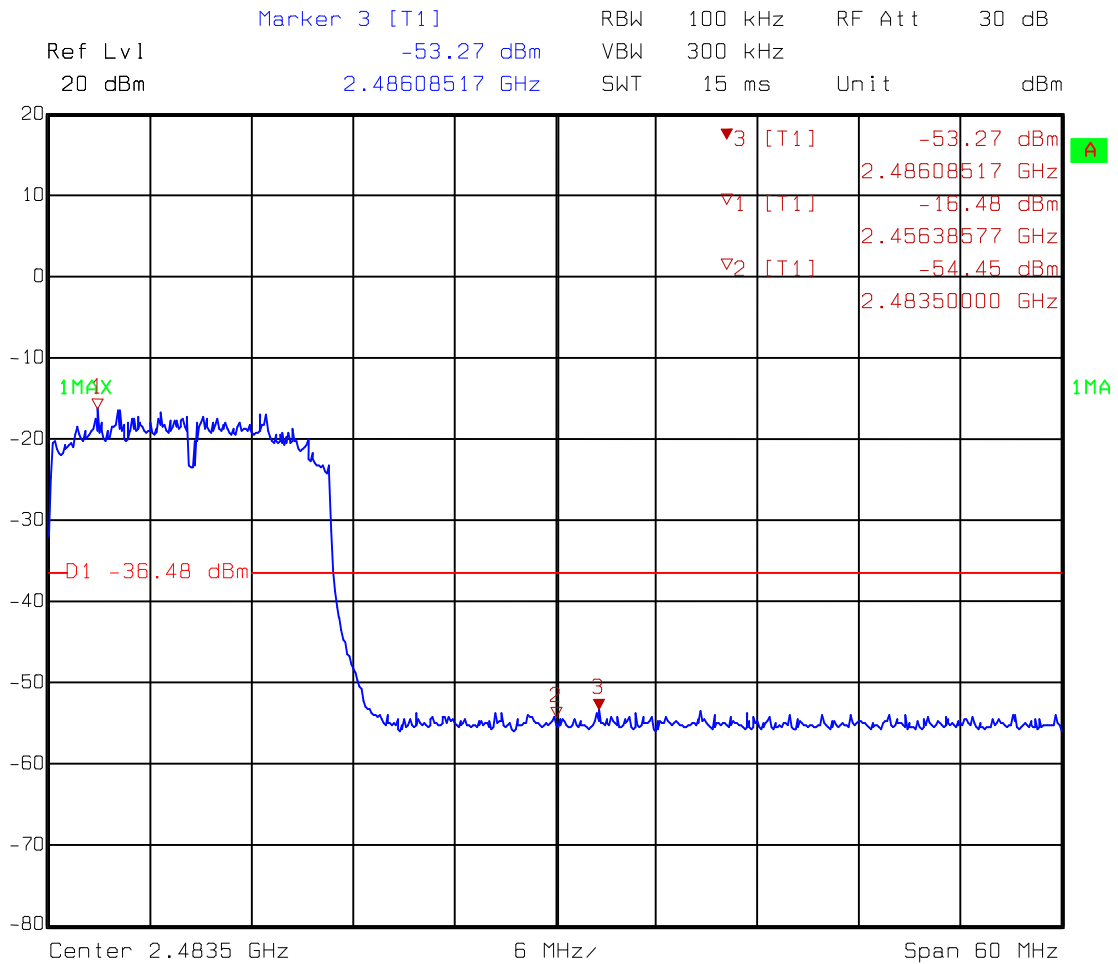


Comment A: Band-edge at high channel 802.11b

Date: 06.OCT.2003 17:51:11

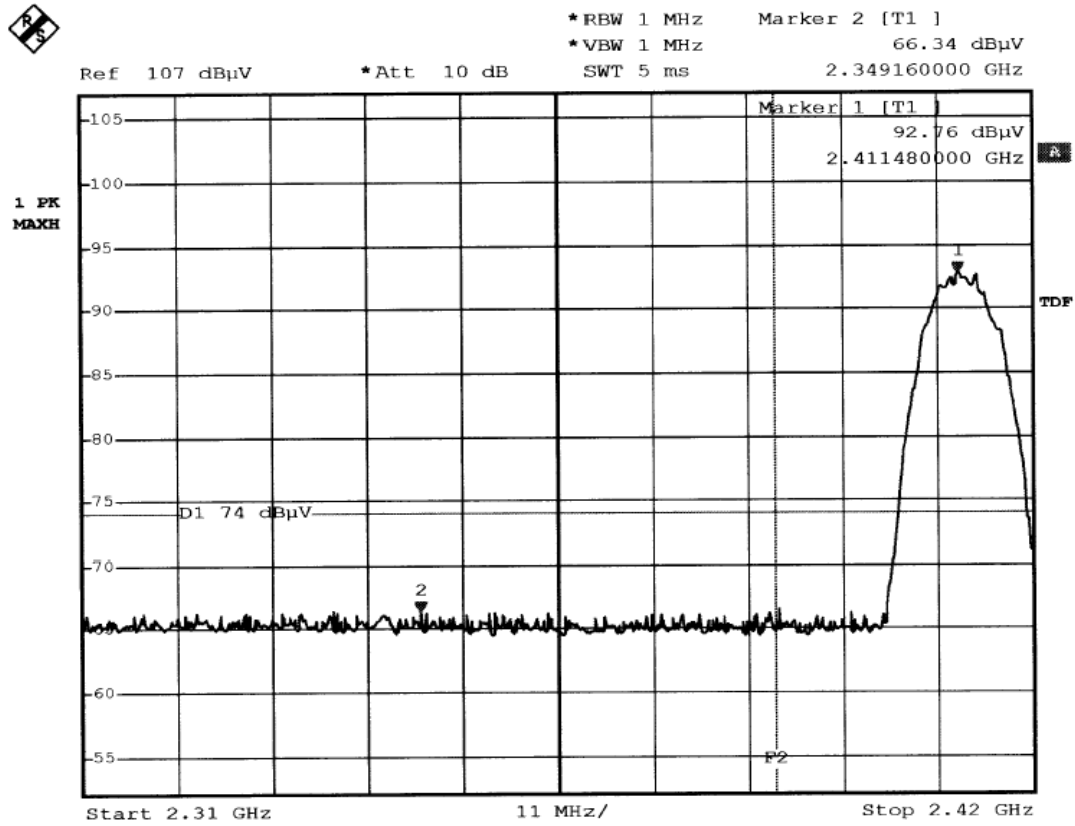


Comment A: Band-edge at low channel 802.11g
Date: 06.OCT.2003 17:49:28

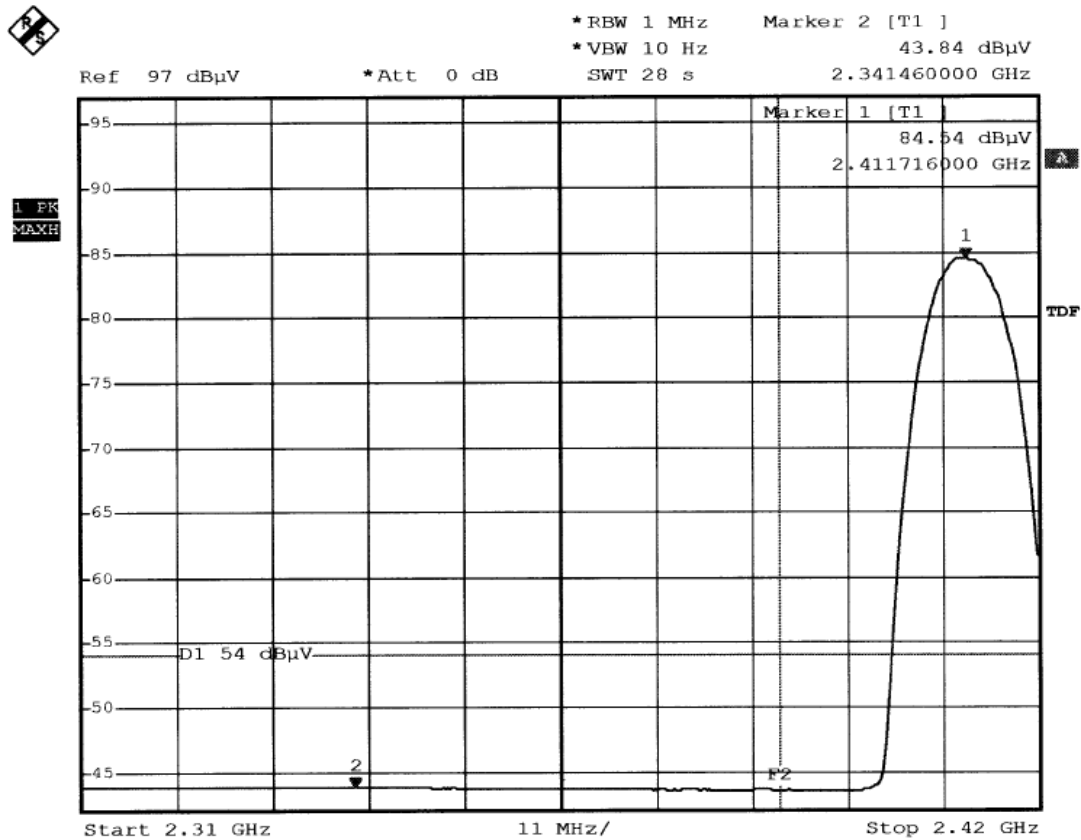


Comment A: Band-edge at high channel 802.11g
Date: 06.OCT.2003 17:53:39

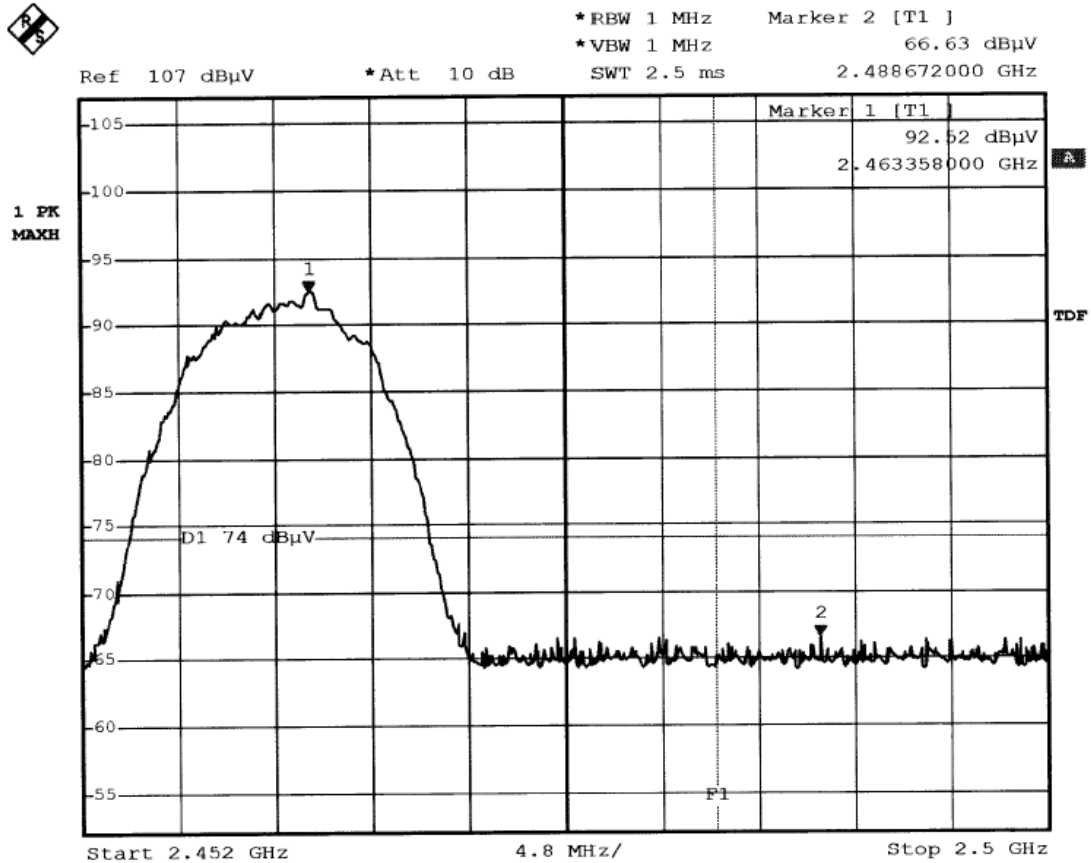
7.2 Band-edge (Radiated method)



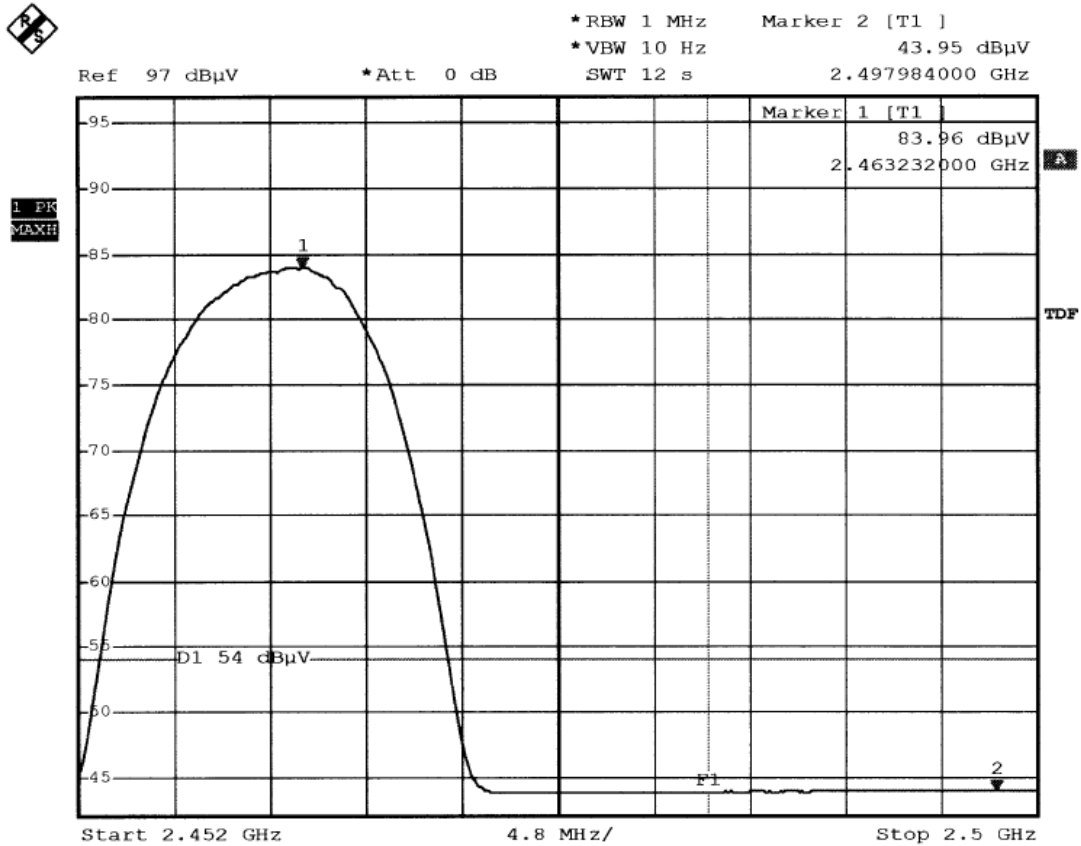
Comment A: Band-edge test at low channel1
 Peak detector F2=2390MHz ATT=10dB 802.11b
 Date: 23.SEP.2003 19:46:51



Comment A: Band-edge test at low channel EN B
 Average detector F2=2390MHz ATT=10dB 802.11b
 Date: 23.SEP.2003 19:48:00



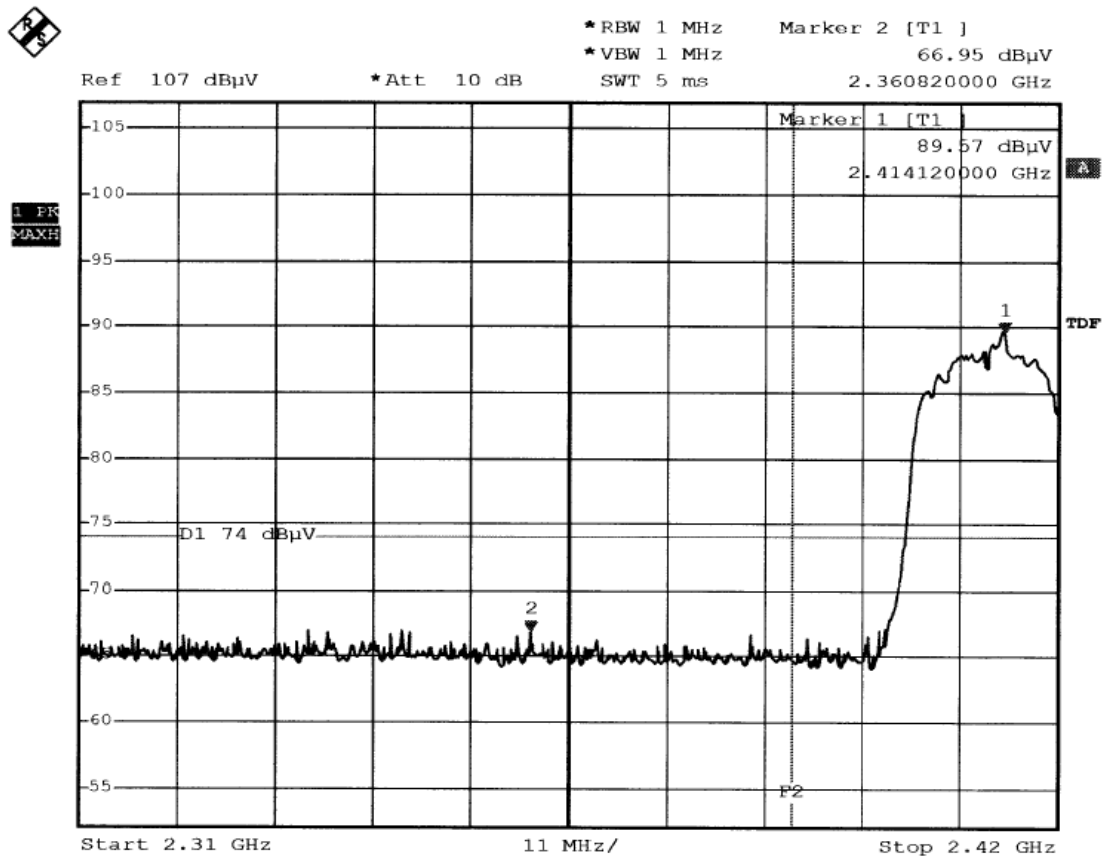
Comment A: Band-edge test at high channel N B
Peak detector F1=2483.5MHz ATT=10dB 802.11b
Date: 23.SEP.2003 19:40:35



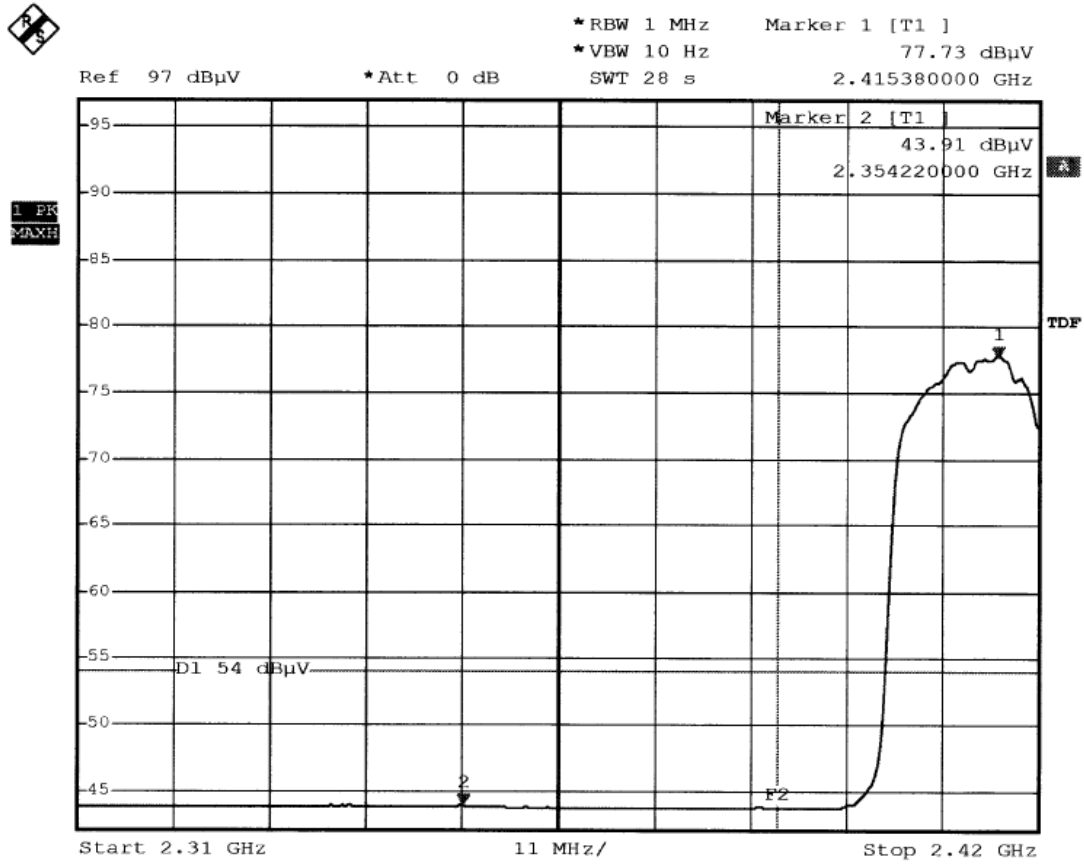
Comment A: Band-edge test at high channelN B

Average detector F1=2483.5MHz ATT=10dB 802.11b

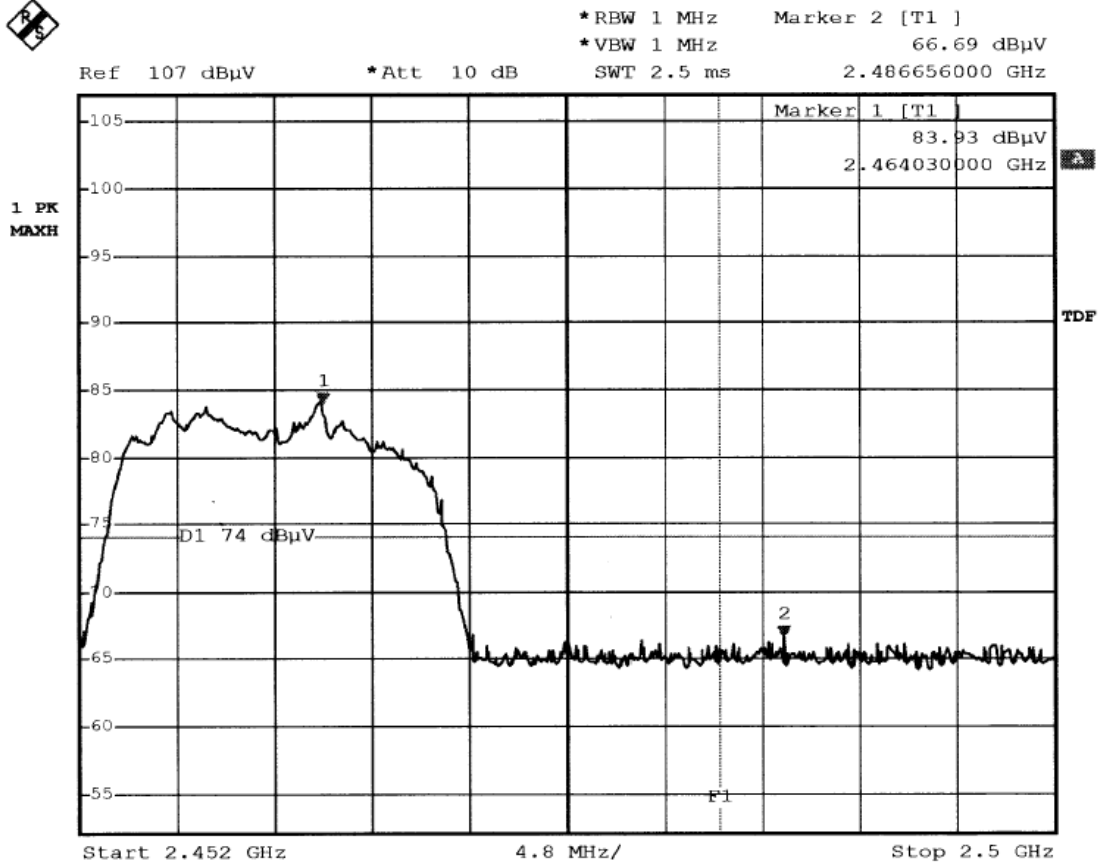
Date: 23.SEP.2003 19:41:43



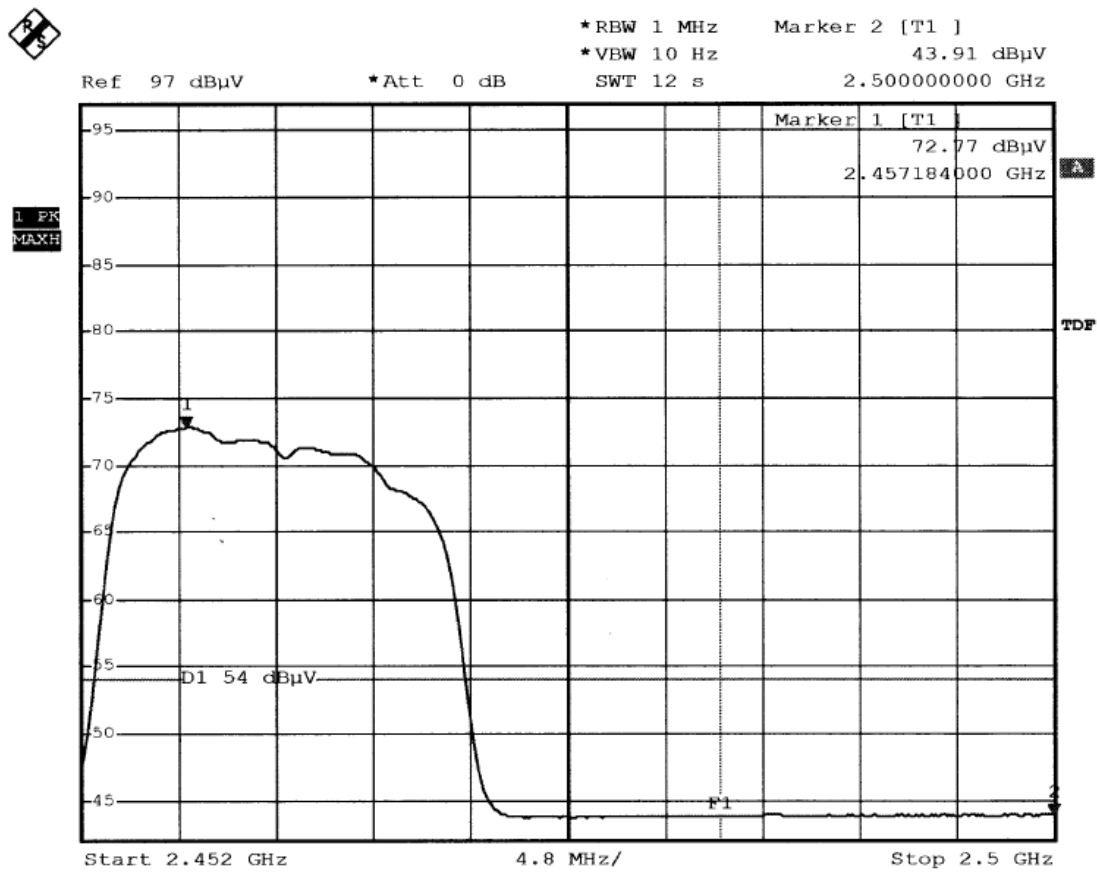
Comment A: Band-edge test at low channel1
Peak detector F2=2390MHz 802.11g
Date: 24.SEP.2003 09:28:40



Comment A: Band-edge test at low channel EN B
 Average detector F2=2390MHz 802.11g
 Date: 24.SEP.2003 09:30:43



Comment A: Band-edge test at high channel N B
 Peak detector F1=2483.5MHz 802.11g
 Date: 24.SEP.2003 10:59:55



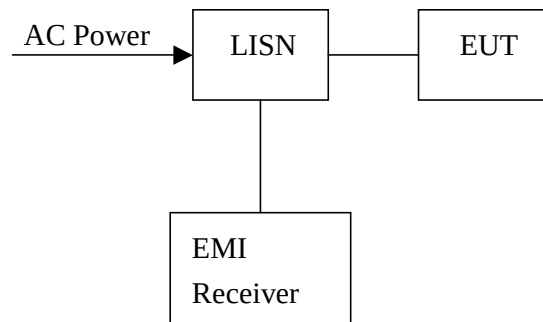
Comment A: Band-edge test at high channelN B
 Average detector F1=2483.5MHz 802.11g
 Date: 24.SEP.2003 11:01:03

8. Power Line Conducted Emission test §FCC 15.207

8.1 Operating environment

Temperature:	24	°C	(10-40°C)
Relative Humidity:	58	%	(10-90%)
Atmospheric Pressure	1023	hPa	(860-1061hPa)

8.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/1992 on conducted measurement. The AC power conducted emissions was measured over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz. (15.207 paragraph)

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

Emission Limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.

8.3 Power Line Conducted Emission test data

(1) Line

EUT : DWL-G810
Test Condition : Normal operation

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.20600	45.4	63.37	39.1	53.37	-17.97	-14.27
1.15800	37.8	56.00	34.2	46.00	-18.20	-11.80
1.83800	38.6	56.00	33.2	46.00	-17.40	-12.80
2.11000	38.9	56.00	33.3	46.00	-17.10	-12.70
2.51800	36.4	56.00	29.5	46.00	-19.60	-16.50
2.79000	35.4	56.00	30.8	46.00	-20.60	-15.20

(2) Neutral

EUT : DWL-G810
Test Condition : Normal operation

Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Reading (dB μ V) AV	Limit (dB μ V) AV	Margin (dB)	
					QP	AV
0.47650	37.5	56.40	32.4	46.40	-18.90	-14.00
0.81550	36.5	56.00	31.5	46.00	-19.50	-14.50
1.83325	37.4	56.00	34.9	46.00	-18.60	-11.10
2.03815	38.6	56.00	36.3	46.00	-17.40	-9.70
2.30813	31.6	56.00	25.5	46.00	-24.40	-20.50
2.71813	38.7	56.00	27.7	46.00	-17.30	-18.30

Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.
Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.

Please see the plot below.

RF Voltage

EUT : DWL-G810

Manufacturer : D-Link Corporation

Op Cond : LISN-L at normal operating

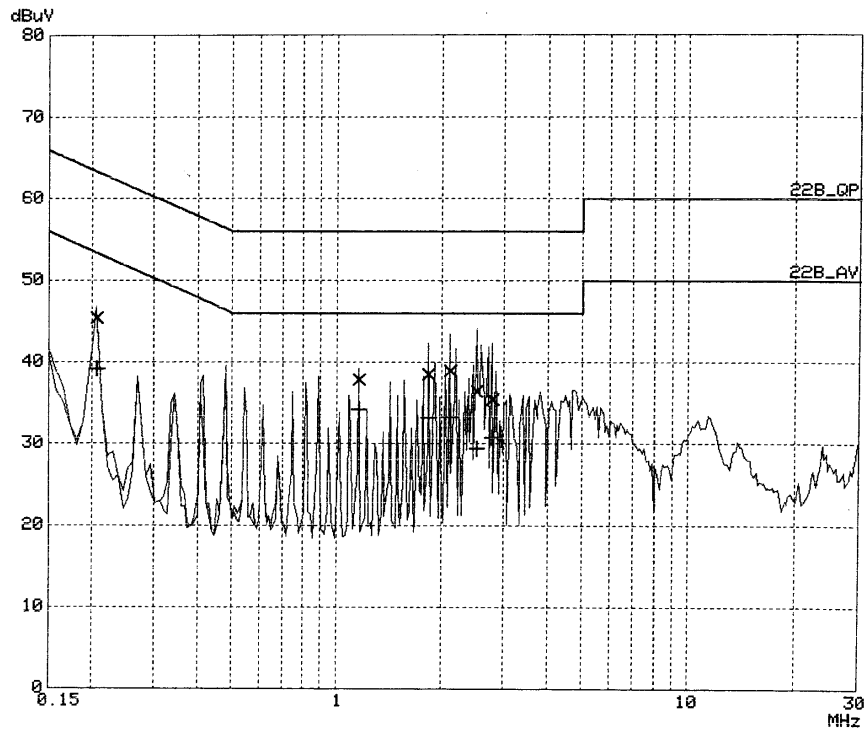
Operator : Jerry

Test Spec. : FCC P15 CLASS B

Comment : EMI RCV: EC346 LISN: EC320
TEMP: 24°C R.H.:50% 120Vac, 60Hz

EME-031119

Date : Sep. 9, 2003 11:48



RF Voltage

EUT : DWL-G810

Manufacturer : D-Link Corporation

Op Cond : LISN-N at normal operating

Operator : Jerry

Test Spec. : FCC P15 CLASS B

Comment : EMI RCV: EC346 LISN: EC320
TEMP: 24°C R.H.:50% 120Vac, 60Hz

EME-031119

Date : Sep. 9, 2003 11:42

