

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	Netgear Inc.
Address	4500 Great America Parkway Santa Clara California 95054 USA
Equipment	RANGEMAX ADSL MODEM WIRELESS ROUTER
Model No.	DG834PN/PNB
FCC ID	PY305300016
Trade Name	Netgear

Laboratory Accreditation



1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **Exclusive Certification Corp.** the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

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CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart C

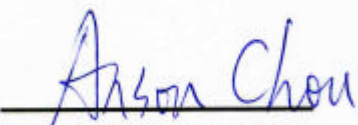
Applicant	Netgear Inc.
Address	4500 Great America Parkway Santa Clara California 95054 USA
Equipment	RANGEMAX ADSL MODEM WIRELESS ROUTER
Model No.	DG834PN/PNB
FCC ID	PY305300016

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was ***passed*** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2003)**.

The test was carried out on Oct. 21, 2005 at ***Exclusive Certification Corp.***

Signature



Anson Chou / Manager

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Emission	Pass
15.247(a)(2)	6dB Bandwidth	Pass
15.247(b)	Maximum Peak Output Power	Pass
15.247(c)	100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	Pass

Test engineer: Jerry

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

- 802.11g wireless networking, with the ability to operate in Auto 108 Mbps mode,
- 108 Mbps “turbo-g” only, the 802.11b+g modes, 802.11g-only, and 802.11b-only
 - A built-in ADSL modem
 - A powerful, true firewall
 - Easy, Web-based setup for installation and management
 - Extensive Internet protocol support
 - Content filtering
 - Auto Sensing and Auto Uplink™ LAN Ethernet connections

2.2 RF Specifications

Spreading	Transmit Power
802.11b: DSSS, CCK, QPSK, BPSK	FCC:
802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)	802.11b:
Frequency Range	1~ 11M : 20dBm
802.11b/g: 2.4 ~ 2.4835GHz	802.11g:
Number of Channels	6M ~ 24M : 22dBm
USA, Canada and Taiwan: 1 ~ 11	802.11SG:
Most European Countries: 1 ~ 13	108M : 22dBm
France: 10 ~ 13	
Data Rate	ETSI:
802.11b: 11, 5.5, 2, 1 Mbs	802.11b:
802.11g: 54, 48, 36, 24, 12, 6 Mbps	1~ 11M : 18dBm (EIRP)
802.11SG: 108 Mbps	802.11g:
Modulation	6M ~ 24M : 16.5dBm (EIRP)
802.11g: OFDM	802.11SG:
802.11b: CCK, DQPSK, DBPSK	108M : 17dBm (EIRP)
Antenna	
Antenna PCB	
Peak gain: 5.3dBi	

2.3 Test Mode and Test Software

The following test mode and test software was performed for conduction and radiation test:

- 802.11b (CH LO: 2412MHz) • 802.11b (CH MID: 2437MHz) • 802.11b (CH HI: 2462MHz)
- 802.11g (CH LO: 2412MHz) • 802.11g (CH MID: 2437MHz) • 802.11g (CH HI: 2462MHz)
- 802.11 Super G (CH LO: 2437MHz)
- An executive programs, "telnet.exe" Application under WIN XP.

The test mode of AC power-line conducted emission test and radiated emission test as below:

- Test mode 1: switch adapter (adapter mode: DSA-0131F-12)
- Test mode 2: switch adapter (adapter mode: ADS18B-W)

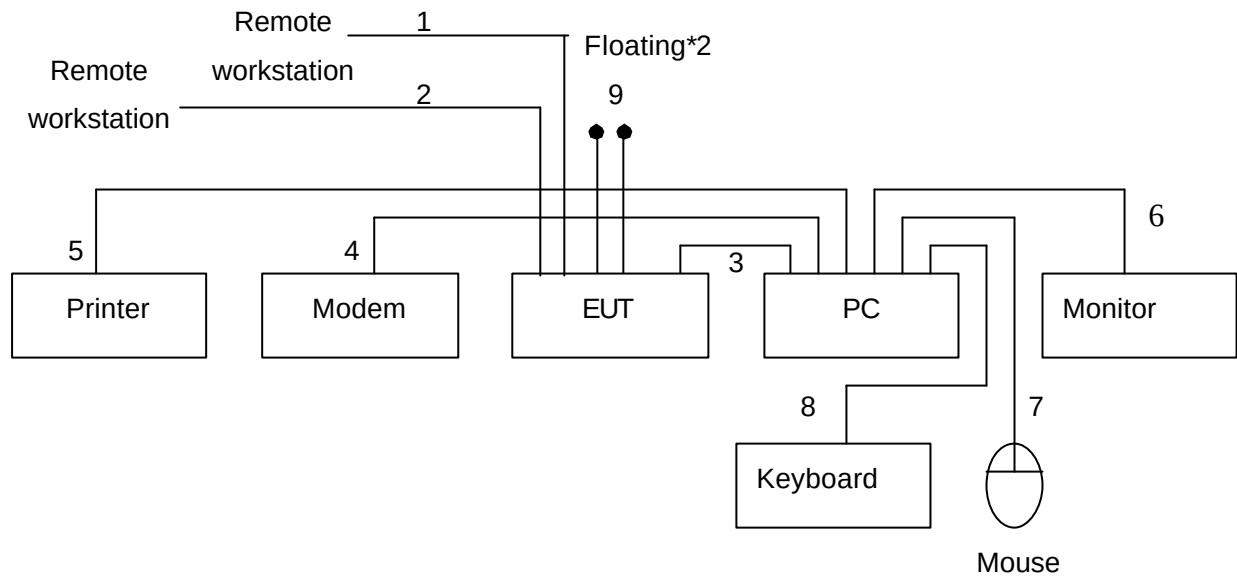
2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 shielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT shielding 1.6 m
Notebook (Remote site)	IBM	R40(2723-BV1)	Power Cable, Adapter Unshielding 1.8 m
CO(A) (Remote site)	ZYXEL	IES-1000	Power Cable, Adapter Unshielding 1.8 m
CO(B) (Remote site)	ZYXEL	IES-1000	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Description
RJ 45*1	Unshielding, 1.5m
RJ 45*2	Unshielding, 0.5m
RJ 45*1	Unshielding, 10m
RJ 11*1	Unshielding, 10m

2.5 Connection Diagram of Test System



1. The RJ 45 cable is connected form remote workstation to the EUT.
2. The RJ 11 cable is connected form remote workstation to the EUT.
3. The RJ 45 cable is connected from PC to the EUT.
4. The I/O cable is connected from PC to the Modem.
5. The I/O cable is connected from PC to the Printer.
6. The I/O cable is connected from PC to the Monitor.
7. The I/O cable is connected from PC to the Mouse.
8. The I/O cable is connected from PC to the Keyboard.
9. These cables are floating.

2.6 General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C.
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.7 History of this test report

ORIGINAL.

3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2 Antenna Construction and Directional Gain

Antenna type: Antenna PCB

Antenna Gain: 5.3 dBi.

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4. Test of Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

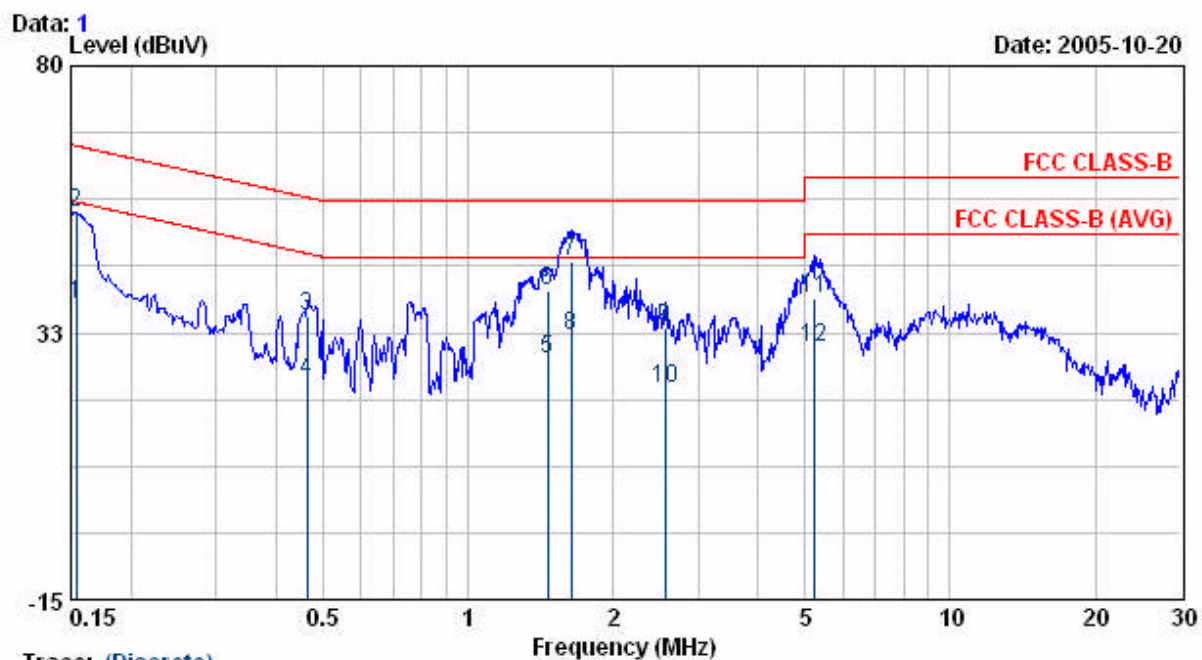
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.5 Test Result and Data

Test mode 1:

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH1
 Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %



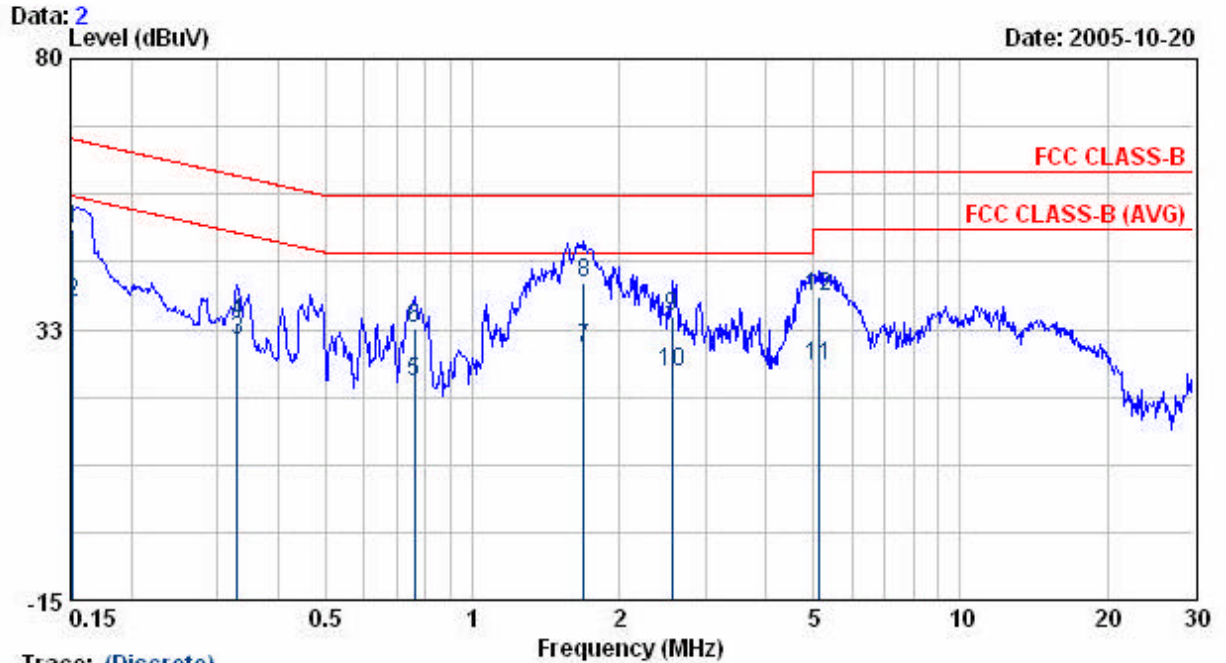
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	37.07	0.31	37.38	55.78	-18.40	AVERAGE
0.15	53.47	0.31	53.78	65.78	-12.00	Peak
0.46	34.80	0.50	35.30	56.62	-21.32	QP
0.46	23.37	0.50	23.87	46.62	-22.75	AVERAGE
1.46	27.35	0.55	27.90	46.00	-18.10	AVERAGE
1.46	39.51	0.55	40.06	56.00	-15.94	QP
1.64	44.78	0.57	45.35	56.00	-10.65	QP
1.64	31.36	0.57	31.93	46.00	-14.07	AVERAGE
2.57	32.70	0.60	33.30	56.00	-22.70	QP
2.57	21.99	0.60	22.59	46.00	-23.41	AVERAGE
5.22	37.91	0.60	38.51	60.00	-21.49	QP
5.22	29.36	0.60	29.96	50.00	-20.04	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH1
 Memo : DSA-0131F-12

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 62 %



Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	49.70	0.38	50.08	65.91	-15.83	QP
0.15	36.98	0.38	37.36	55.91	-18.55	AVERAGE
0.33	29.99	0.52	30.51	49.47	-18.97	AVERAGE
0.33	33.16	0.52	33.68	59.47	-25.80	QP
0.76	22.80	0.53	23.33	46.00	-22.67	AVERAGE
0.76	32.18	0.53	32.71	56.00	-23.29	QP
1.69	28.53	0.65	29.18	46.00	-16.82	AVERAGE
1.69	40.15	0.65	40.80	56.00	-15.20	QP
2.56	34.10	0.70	34.80	56.00	-21.20	QP
2.56	24.28	0.70	24.98	46.00	-21.02	AVERAGE
5.11	25.43	0.67	26.10	50.00	-23.90	AVERAGE
5.11	37.50	0.67	38.17	60.00	-21.83	QP

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

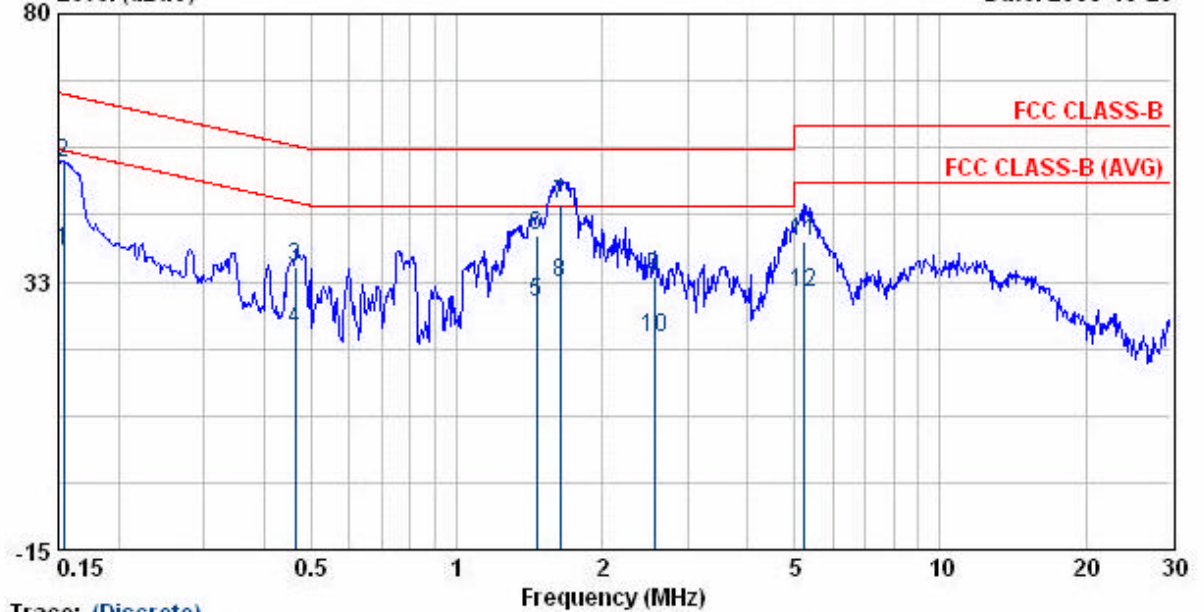
EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH6
 Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %

Data: 3

Level (dBuV)

Date: 2005-10-20



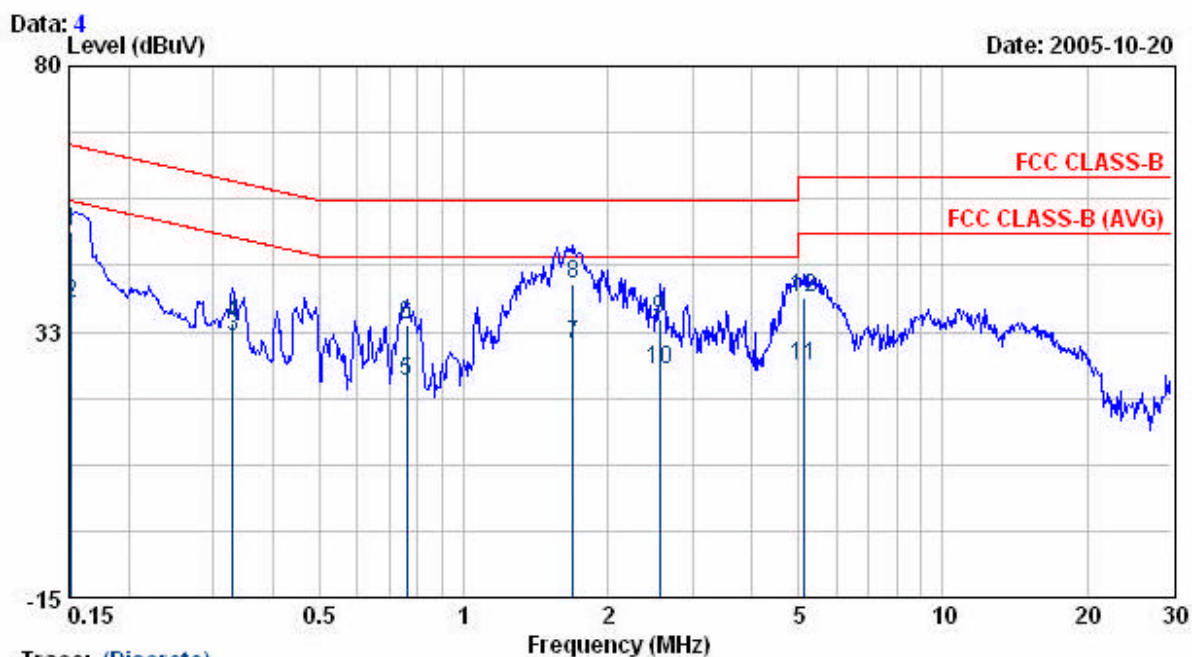
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	37.63	0.31	37.94	55.78	-17.84	AVERAGE
0.15	53.11	0.31	53.42	65.78	-12.36	Peak
0.46	34.50	0.50	35.00	56.62	-21.62	QP
0.46	23.64	0.50	24.14	46.62	-22.48	AVERAGE
1.46	28.35	0.55	28.90	46.00	-17.10	AVERAGE
1.46	40.11	0.55	40.66	56.00	-15.34	QP
1.64	45.78	0.57	46.35	56.00	-9.65	QP
1.64	31.66	0.57	32.23	46.00	-13.77	AVERAGE
2.57	32.70	0.60	33.30	56.00	-22.70	QP
2.57	21.99	0.60	22.59	46.00	-23.41	AVERAGE
5.22	38.91	0.60	39.51	60.00	-20.49	QP
5.22	30.11	0.60	30.71	50.00	-19.29	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH6
 Memo : DSA-0131F-12

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 62 %



Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	50.13	0.38	50.51	65.91	-15.40	QP
0.15	37.11	0.38	37.49	55.91	-18.42	AVERAGE
0.33	30.99	0.52	31.51	49.47	-17.97	AVERAGE
0.33	33.64	0.52	34.16	59.47	-25.32	QP
0.76	23.11	0.53	23.64	46.00	-22.36	AVERAGE
0.76	33.08	0.53	33.61	56.00	-22.39	QP
1.69	29.53	0.65	30.18	46.00	-15.82	AVERAGE
1.69	40.46	0.65	41.11	56.00	-14.89	QP
2.56	34.22	0.70	34.92	56.00	-21.08	QP
2.56	25.01	0.70	25.71	46.00	-20.29	AVERAGE
5.11	25.66	0.67	26.33	50.00	-23.67	AVERAGE
5.11	38.01	0.67	38.68	60.00	-21.32	QP

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

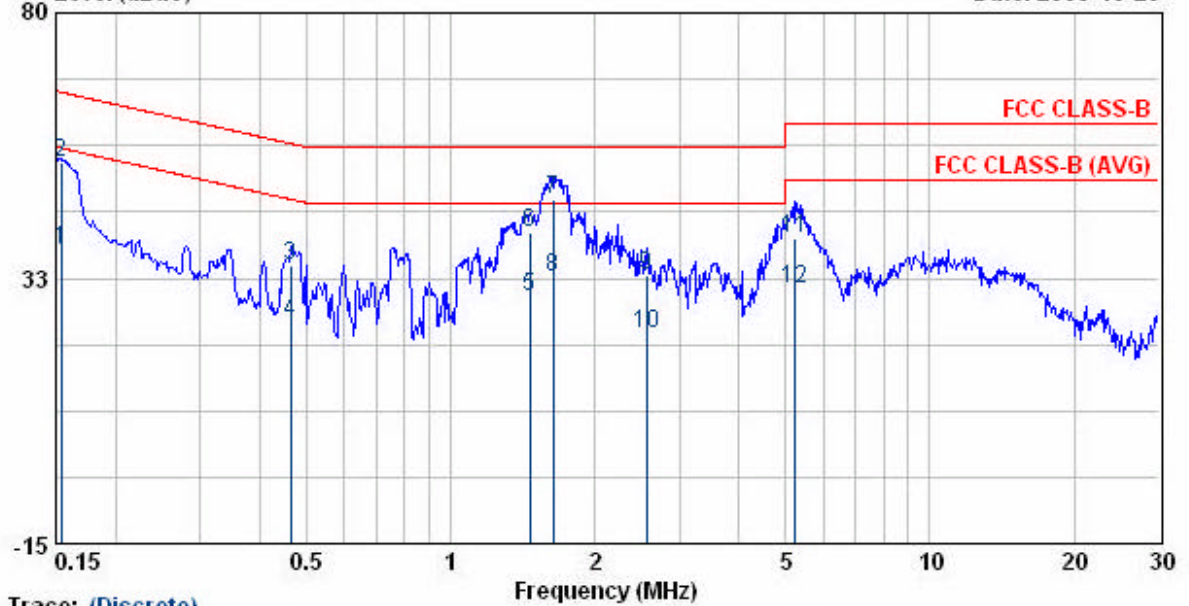
EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH11
 Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %

Data: 5

Level (dBuV)

Date: 2005-10-20



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	37.11	0.31	37.42	55.78	-18.36	AVERAGE
0.15	52.98	0.31	53.29	65.78	-12.49	Peak
0.46	34.16	0.50	34.66	56.62	-21.96	QP
0.46	24.11	0.50	24.61	46.62	-22.01	AVERAGE
1.46	28.77	0.55	29.32	46.00	-16.68	AVERAGE
1.46	40.16	0.55	40.71	56.00	-15.29	QP
1.64	46.19	0.57	46.76	56.00	-9.24	QP
1.64	32.11	0.57	32.68	46.00	-13.32	AVERAGE
2.57	32.52	0.60	33.12	56.00	-22.88	QP
2.57	21.87	0.60	22.47	46.00	-23.53	AVERAGE
5.22	38.91	0.60	39.51	60.00	-20.49	QP
5.22	30.11	0.60	30.71	50.00	-19.29	AVERAGE

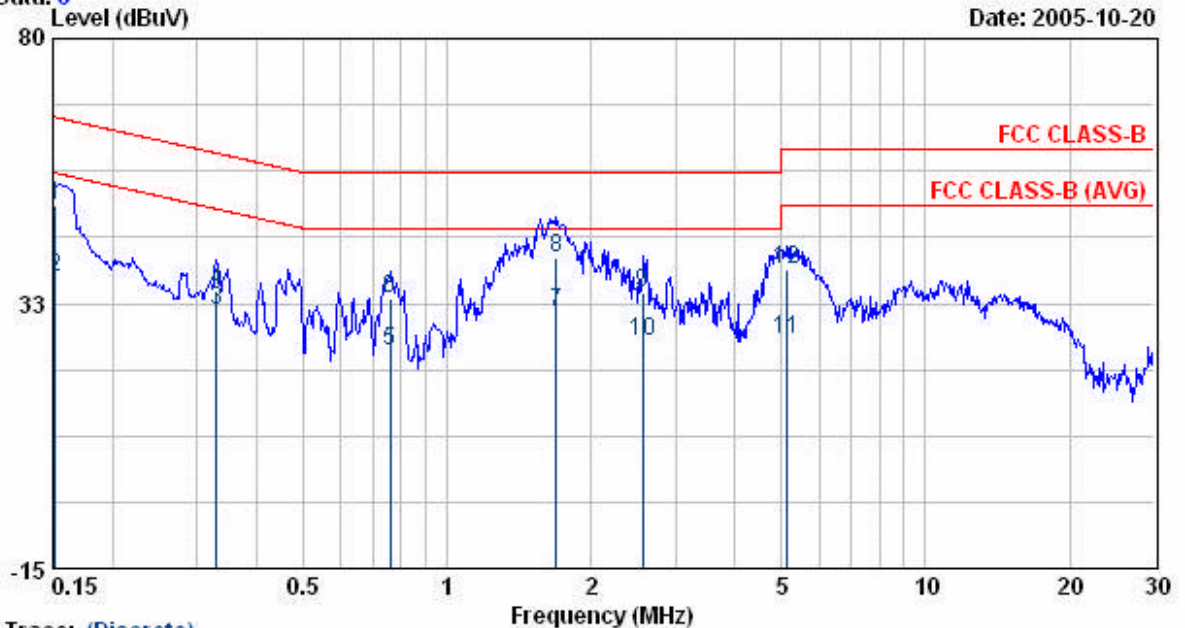
Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11b CH11
 Memo : DSA-0131F-12

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 62 %

Data: 6

Date: 2005-10-20



Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	49.77	0.38	50.15	65.91	-15.76	QP
0.15	36.78	0.38	37.16	55.91	-18.75	AVERAGE
0.33	30.78	0.52	31.30	49.47	-18.18	AVERAGE
0.33	34.11	0.52	34.63	59.47	-24.85	QP
0.76	23.46	0.53	23.99	46.00	-22.01	AVERAGE
0.76	32.69	0.53	33.22	56.00	-22.78	QP
1.69	30.15	0.65	30.80	46.00	-15.20	AVERAGE
1.69	40.13	0.65	40.78	56.00	-15.22	QP
2.56	33.86	0.70	34.56	56.00	-21.44	QP
2.56	25.12	0.70	25.82	46.00	-20.18	AVERAGE
5.11	25.46	0.67	26.13	50.00	-23.87	AVERAGE
5.11	37.98	0.67	38.65	60.00	-21.35	QP

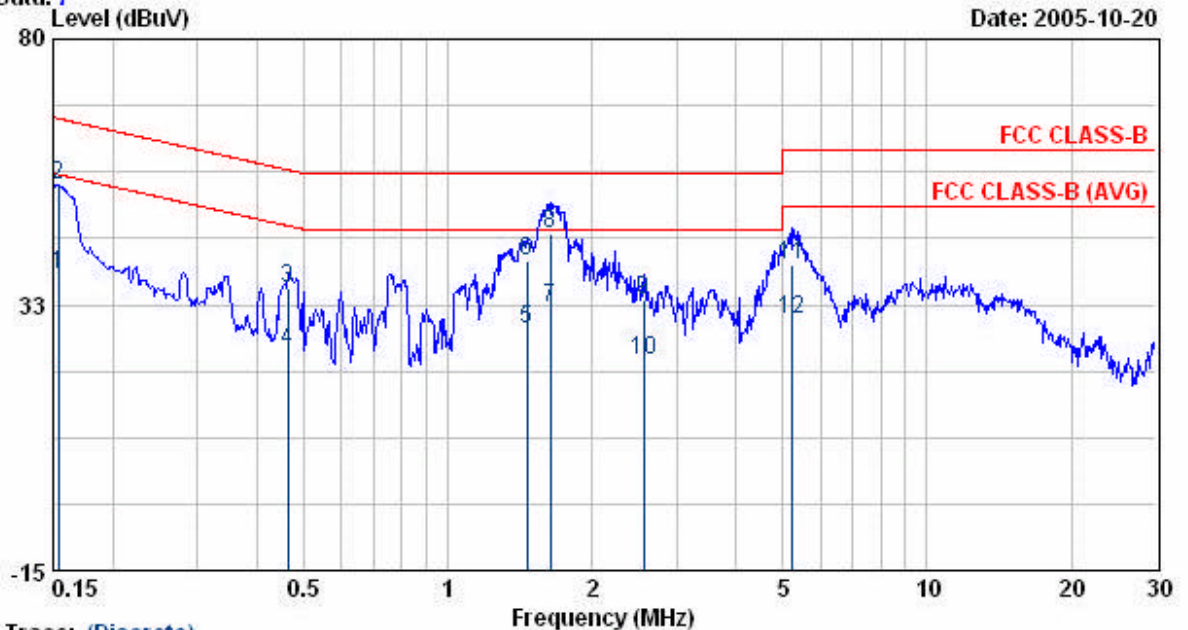
Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11g CH1
 Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %

Data: 7

Date: 2005-10-20



Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	37.63	0.31	37.94	55.78	-17.84	AVERAGE
0.15	53.63	0.31	53.94	65.78	-11.84	Peak
0.46	34.82	0.50	35.32	56.62	-21.30	QP
0.46	23.74	0.50	24.24	46.62	-22.38	AVERAGE
1.46	27.54	0.55	28.09	46.00	-17.91	AVERAGE
1.46	39.66	0.55	40.21	56.00	-15.79	QP
1.64	31.36	0.57	31.93	46.00	-14.07	AVERAGE
1.64	44.78	0.57	45.35	56.00	-10.65	QP
2.57	32.70	0.60	33.30	56.00	-22.70	QP
2.57	21.99	0.60	22.59	46.00	-23.41	AVERAGE
5.22	38.91	0.60	39.51	60.00	-20.49	QP
5.22	29.44	0.60	30.04	50.00	-19.96	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

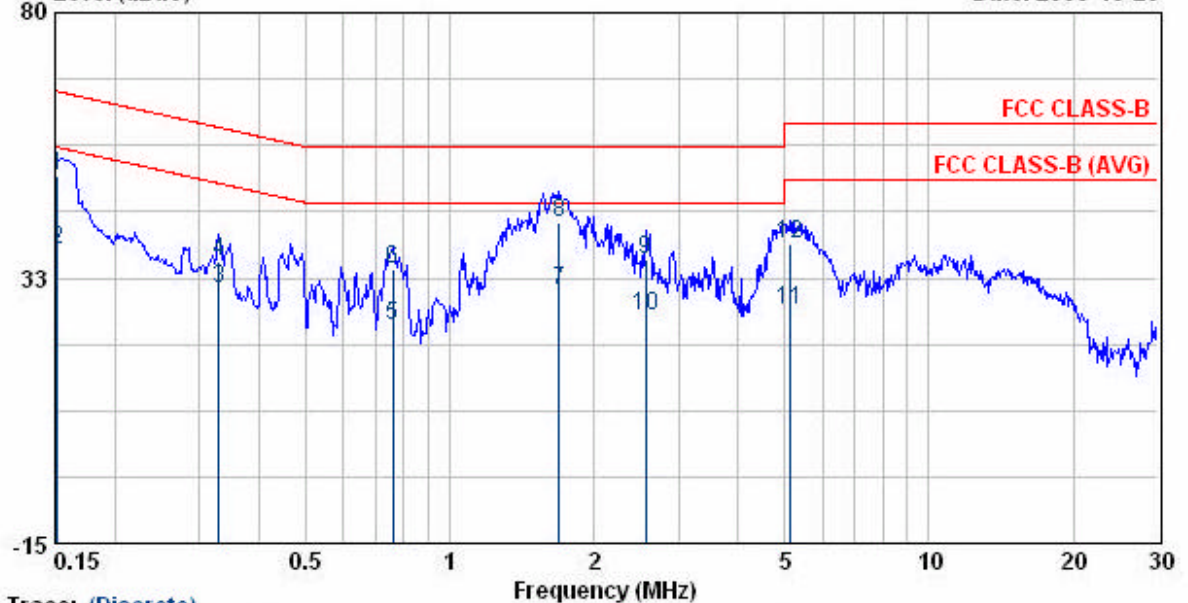
EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11g CH1
 Memo : DSA-0131F-12

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 62 %

Data: 8

Level (dBuV)

Date: 2005-10-20



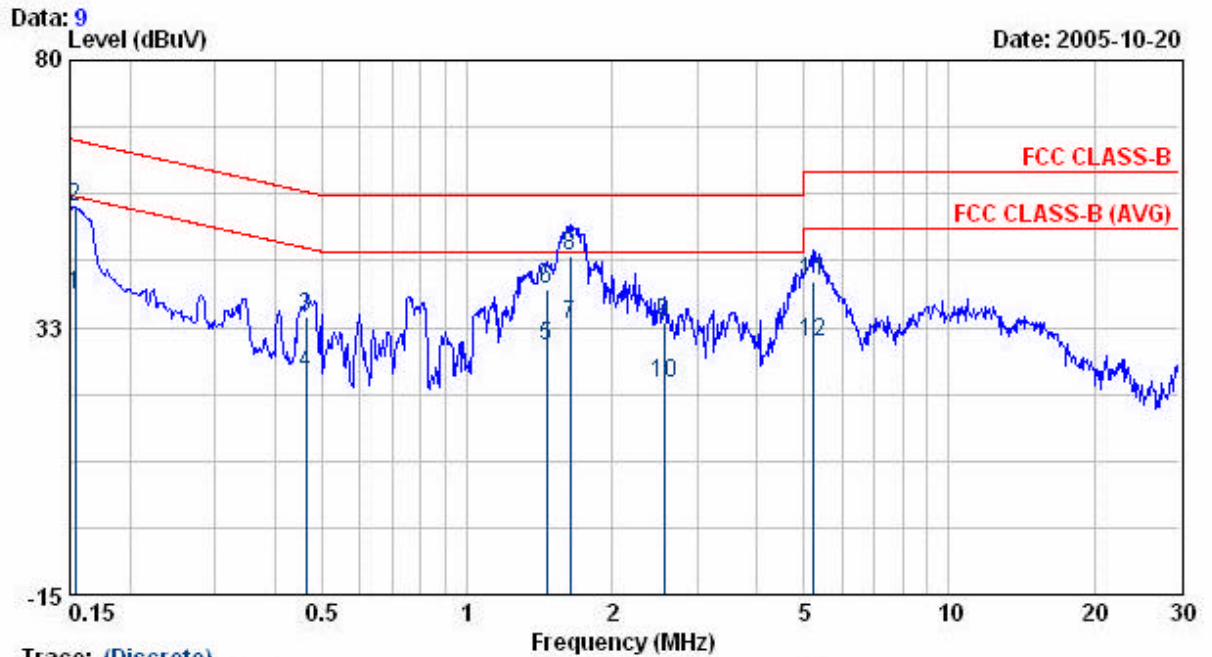
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	50.36	0.38	50.74	65.91	-15.17	QP
0.15	37.16	0.38	37.54	55.91	-18.37	AVERAGE
0.33	30.16	0.52	30.68	49.47	-18.80	AVERAGE
0.33	34.88	0.52	35.40	59.47	-24.08	QP
0.76	23.56	0.53	24.09	46.00	-21.91	AVERAGE
0.76	33.63	0.53	34.16	56.00	-21.84	QP
1.69	29.67	0.65	30.32	46.00	-15.68	AVERAGE
1.69	41.61	0.65	42.26	56.00	-13.74	QP
2.56	35.18	0.70	35.88	56.00	-20.12	QP
2.56	25.06	0.70	25.76	46.00	-20.24	AVERAGE
5.11	25.99	0.67	26.66	50.00	-23.34	AVERAGE
5.11	37.96	0.67	38.63	60.00	-21.37	QP

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11g CH6
 Memo : DSA-0131F-12

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 62 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	37.88	0.31	38.19	55.78	-17.59	AVERAGE
0.15	53.63	0.31	53.94	65.78	-11.84	Peak
0.46	33.82	0.50	34.32	56.62	-22.30	QP
0.46	23.74	0.50	24.24	46.62	-22.38	AVERAGE
1.46	28.54	0.55	29.09	46.00	-16.91	AVERAGE
1.46	38.66	0.55	39.21	56.00	-16.79	QP
1.64	32.36	0.57	32.93	46.00	-13.07	AVERAGE
1.64	44.78	0.57	45.35	56.00	-10.65	QP
2.57	32.70	0.60	33.30	56.00	-22.70	QP
2.57	21.99	0.60	22.59	46.00	-23.41	AVERAGE
5.22	39.91	0.60	40.51	60.00	-19.49	QP
5.22	29.44	0.60	30.04	50.00	-19.96	AVERAGE

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss

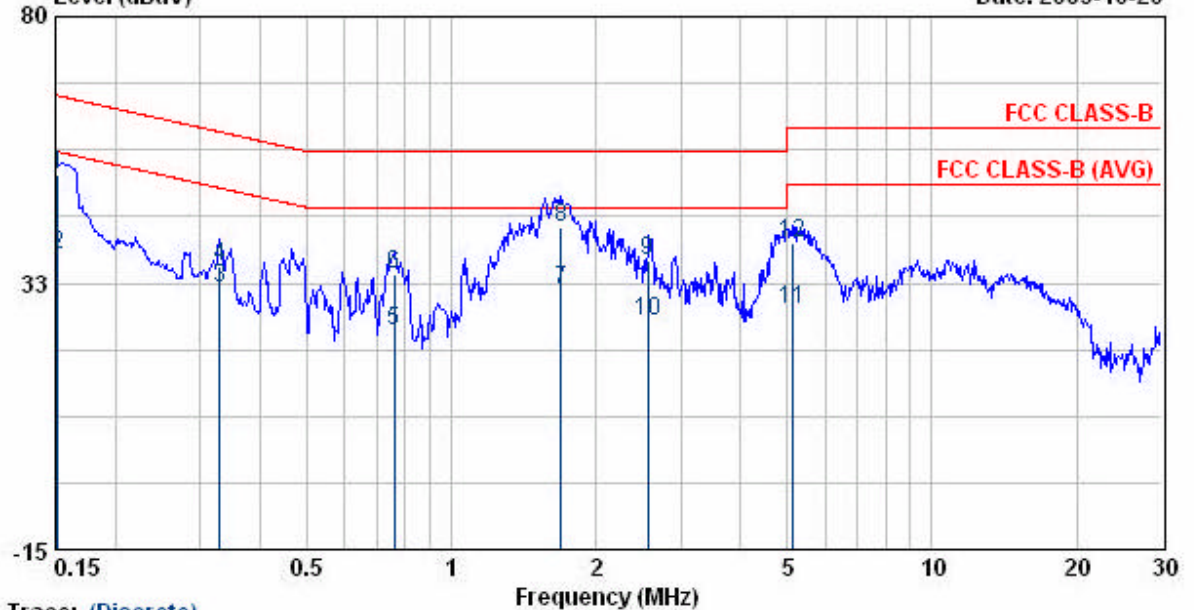
EUT : DG834PN
 Power : AC 120V
 Test Mode : 802.11g CH6
 Memo : DSA-0131F-12

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 62 %

Data: 10

Level (dBuV)

Date: 2005-10-20



Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.15	51.36	0.38	51.74	65.91	-14.17	QP
0.15	37.16	0.38	37.54	55.91	-18.37	AVERAGE
0.33	31.16	0.52	31.68	49.47	-17.80	AVERAGE
0.33	35.01	0.52	35.53	59.47	-23.95	QP
0.76	23.56	0.53	24.09	46.00	-21.91	AVERAGE
0.76	33.63	0.53	34.16	56.00	-21.84	QP
1.69	30.61	0.65	31.26	46.00	-14.74	AVERAGE
1.69	41.61	0.65	42.26	56.00	-13.74	QP
2.56	35.66	0.70	36.36	56.00	-19.64	QP
2.56	25.06	0.70	25.76	46.00	-20.24	AVERAGE
5.11	26.99	0.67	27.66	50.00	-22.34	AVERAGE
5.11	38.96	0.67	39.63	60.00	-20.37	QP

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss