

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	SerComm Corporation
Address	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, R.O.C.
Equipment	HomePlug 802.11g Access Point
Model No.	IP822LM
FCC ID	P27IP822LM
Trade Name	SerComm

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	SerComm Corporation
Address	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, R.O.C.
Equipment	HomePlug 802.11g Access Point
Model No.	IP822LM
FCC ID	P27IP822LM

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 Apr. 26, 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

- Model HomePlug 802.11g Access Point
- Dimensions 141mm(W) * 100mm(D) * 27mm(H)
- Operating Temperature 0° C to 40° C
- Storage Temperature -10° C to 70° C
- Network Protocol: TCP/IP
- Network Interface: 802.11b / 802.11g Wireless Ethernet
- HomePlug interface
- LEDs 3
- Power 100VAC - 240VAC auto-sensing

2.2. RF Module Specifications

- Standards IEEE802.11g WLAN, JEIDA 4.2, roaming support
- Frequency 2.4 to 2.4835GHz (Industrial Scientific Medical Band)
- Channels Maximum 14 Channels, depending on regulatory authorities
- Modulation DSSS BPSK/QPSK/CCK, OFDM/CCK
- Data Rate Up to 54 Mbps
- Coverage Area Indoors : 15m @54Mbps, 120m @6Mbps or lower
Outdoors : 40m @54Mbps, 300m @6Mbps or lower
- Security WEP (64Bit/128Bit), WPA-PSK (TKIP)
- Output Power 13dBm (typical)
- Receiver Sensitivity -80dBm Min.

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)
- An executive programs, "Dutapidll.exe" Application under WIN XP.

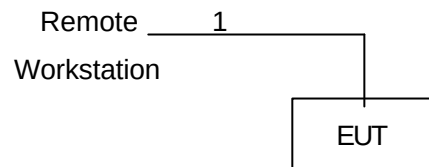
2.4. Description of Test System

Device	Manufacturer	Model No.	Description
PC (Remote Site)	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor (Remote Site)	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA shielding 1.35 m
Keyboard (Remote Site)	IBM	KB-0225	Data Cable, PS2 shielding 1.85 m
Mouse (Remote Site)	IBM	MO28VO	Data Cable, USB shielding 1.85 m

Use Cable:

Cable	Description
RJ-45	Unshielding,3.0m

2.5. Connection Diagram of Test System



1. The I/O cable is connected form remote workstation to the EUT

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 County 223, Taiwan, R.O.C.
Test Voltage:	AC 110V/ 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

The antenna is designed to be permanently mounted on PCB. No consideration of replacement. Please see construction Photos Of Exhibit B for details.

4. Test of Conducted Emission

4.1. Test Limit

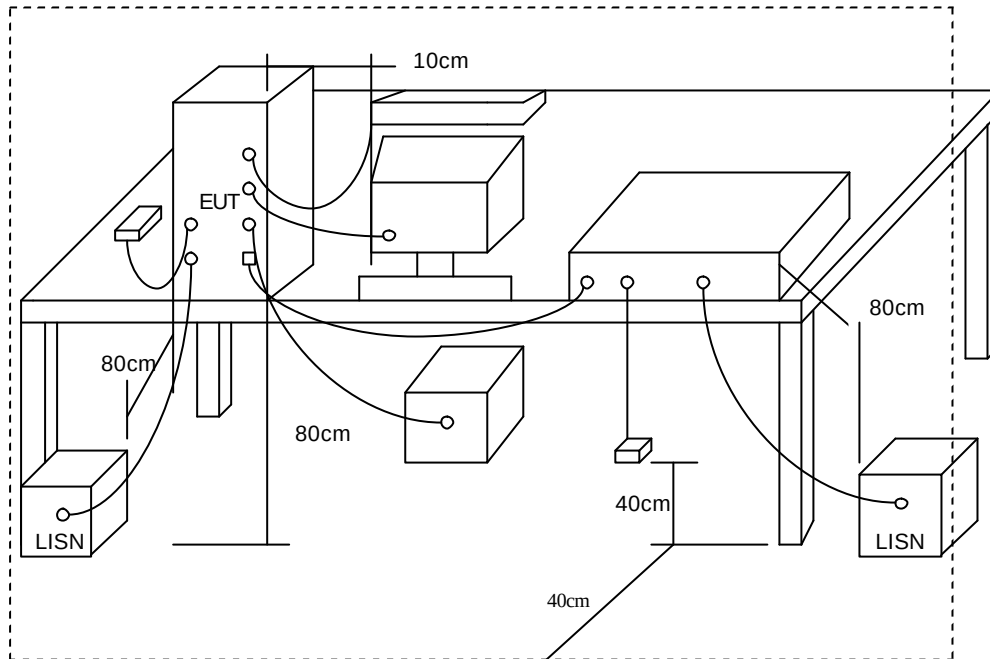
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown 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

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.

4.3. Typical Test Setup



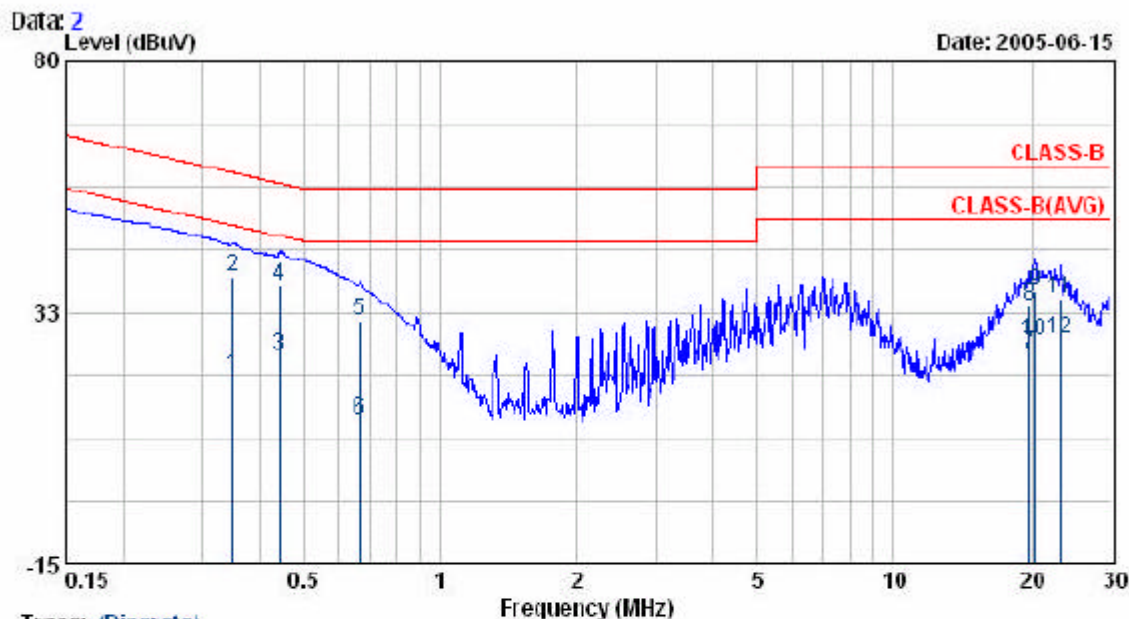
4.4. Measurement equipment

Instrument/Ancillary	Type	Manufacturer	Valid Date.
Receiver	SCR3501	Schaffner	2005/11/03
LISN	NNB-2/16Z	MESS TEC	2006/03/30
LISN	NNB-2/16Z	ROLF HEINE	2006/05/01

4.5. Test Result and Data

EVT : IP822LN
 Power : AC 110V
 Test Mode : 802.11b CH1
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 60 %



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	20.10	0.34	20.44	49.00	-28.56	AVERAGE
0.35	39.02	0.34	39.36	59.00	-19.64	QP
0.44	24.06	0.39	24.45	47.01	-22.56	AVERAGE
0.44	37.00	0.39	37.39	57.01	-19.62	QP
0.67	30.49	0.34	30.83	56.00	-25.17	QP
0.67	11.66	0.34	12.00	46.00	-34.00	AVERAGE
19.76	24.31	0.41	24.72	50.00	-25.28	AVERAGE
19.76	33.15	0.41	33.56	60.00	-26.44	QP
20.32	36.01	0.40	36.41	60.00	-23.59	QP
20.32	26.73	0.40	27.13	50.00	-22.87	AVERAGE
23.19	34.70	0.40	35.10	60.00	-24.90	QP
23.19	26.89	0.40	27.29	50.00	-22.71	AVERAGE

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

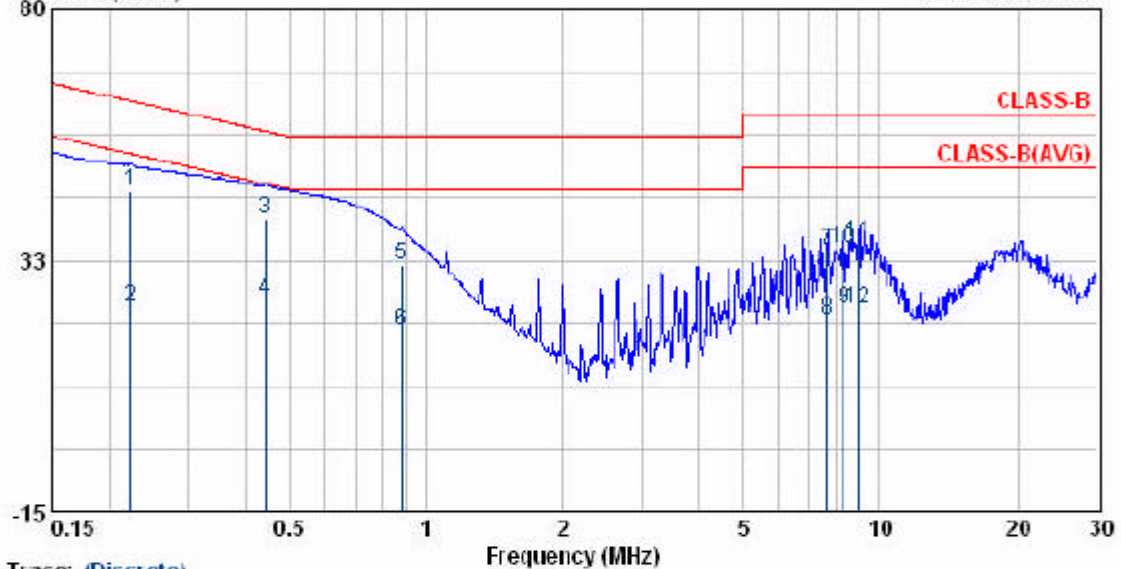
EVT : IP022LN
 Power : AC 110V
 Test Mode : 802.11b CH1
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %

Data: 1

Level (dBuV)

Date: 2005-06-15



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	45.03	0.35	45.38	62.71	-17.33	QP
0.22	23.45	0.35	23.80	52.71	-28.91	AVERAGE
0.44	39.76	0.59	40.35	57.04	-16.69	QP
0.44	24.27	0.59	24.86	47.04	-22.18	AVERAGE
0.88	31.24	0.51	31.75	56.00	-24.25	QP
0.88	18.61	0.51	19.12	46.00	-26.88	AVERAGE
7.70	33.82	0.63	34.45	60.00	-25.55	QP
7.70	20.61	0.63	21.24	50.00	-28.76	AVERAGE
8.36	22.74	0.62	23.36	50.00	-26.64	AVERAGE
8.36	34.26	0.62	34.88	60.00	-25.12	QP
9.02	35.31	0.61	35.92	60.00	-24.08	QP
9.02	22.68	0.61	23.29	50.00	-26.71	AVERAGE

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

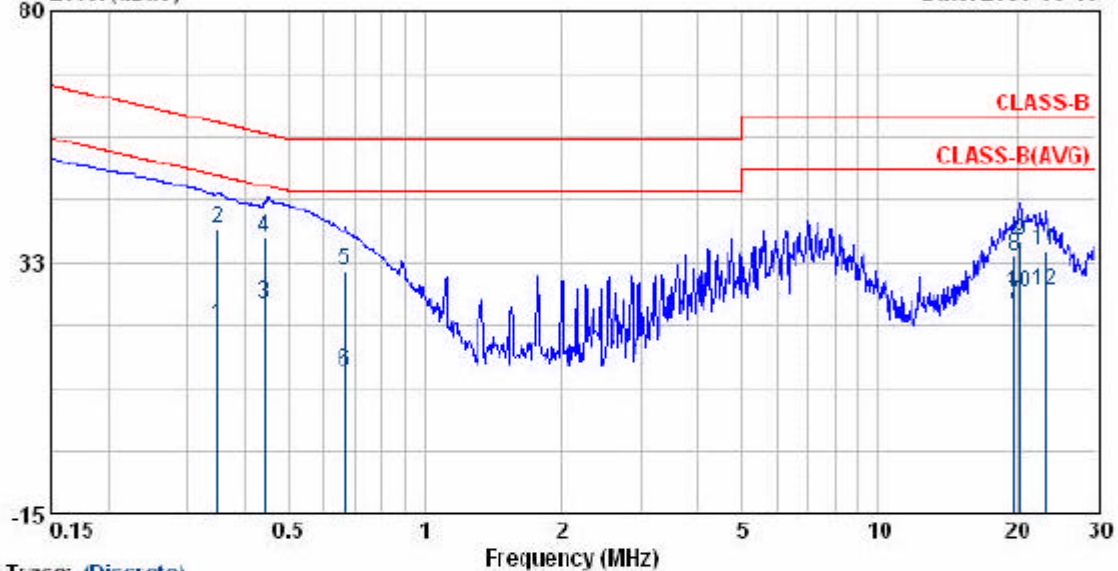
EUT : IP822LN
 Power : AC 110V
 Test Mode : 802.11b CH6
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 60 %

Data: 4

Level (dBuV)

Date: 2005-06-15



Trace: (Discrete)

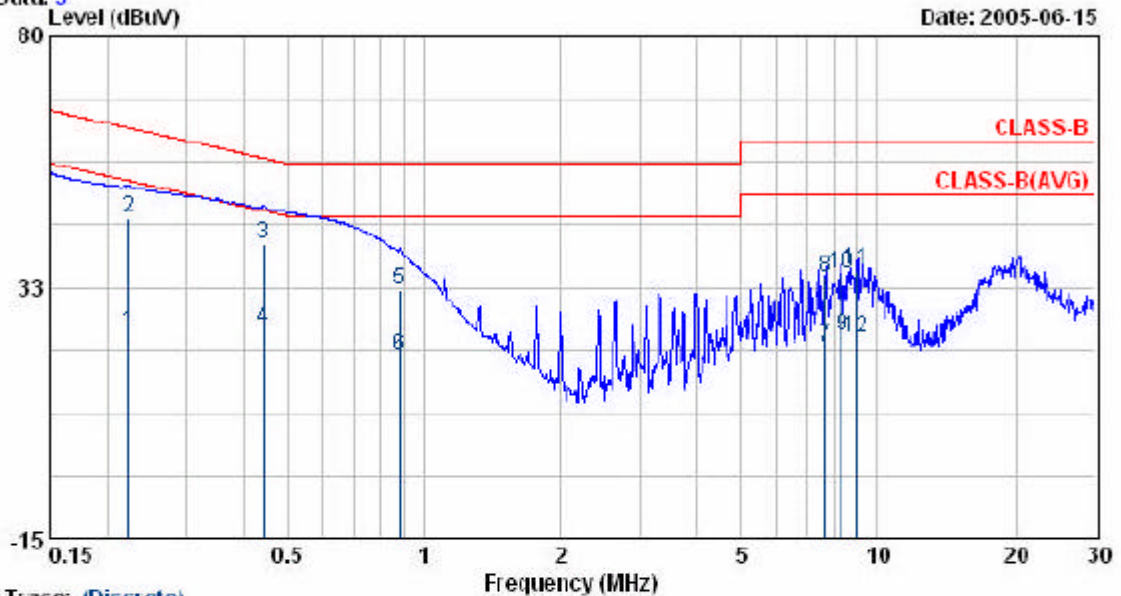
Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	20.29	0.34	20.63	49.00	-28.37	AVERAGE
0.35	38.75	0.34	39.09	59.00	-19.91	QP
0.44	24.41	0.39	24.80	47.01	-22.21	AVERAGE
0.44	36.87	0.39	37.26	57.01	-19.75	QP
0.67	30.53	0.34	30.87	56.00	-25.13	QP
0.67	11.49	0.34	11.83	46.00	-34.17	AVERAGE
19.76	24.31	0.41	24.72	50.00	-25.28	AVERAGE
19.76	33.15	0.41	33.56	60.00	-26.44	QP
20.32	36.25	0.40	36.65	60.00	-23.35	QP
20.32	26.35	0.40	26.75	50.00	-23.25	AVERAGE
23.19	34.46	0.40	34.86	60.00	-25.14	QP
23.19	26.76	0.40	27.16	50.00	-22.84	AVERAGE

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

EVT : IP822LN
 Power : AC 110V
 Test Mode : 802.11b CH6
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %

Data: 3



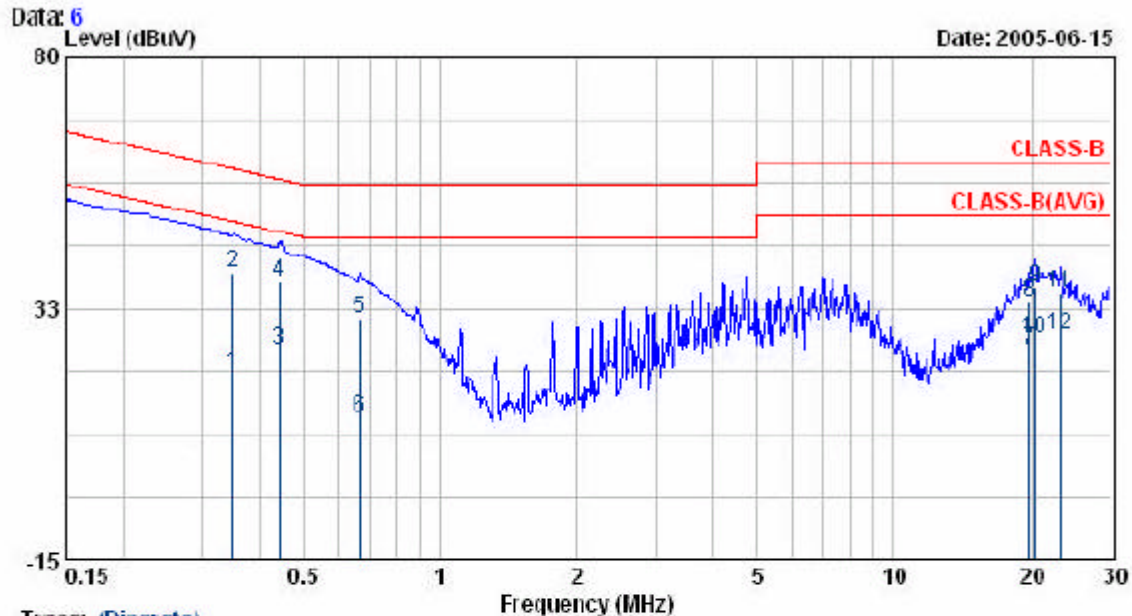
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	23.56	0.35	23.91	52.71	-28.80	AVERAGE
0.22	45.29	0.35	45.64	62.71	-17.07	QP
0.44	39.99	0.59	40.58	57.04	-16.46	QP
0.44	24.13	0.59	24.72	47.04	-22.32	AVERAGE
0.88	31.50	0.51	32.01	56.00	-23.99	QP
0.88	18.89	0.51	19.40	46.00	-26.60	AVERAGE
7.70	20.70	0.63	21.33	50.00	-28.67	AVERAGE
7.70	33.63	0.63	34.26	60.00	-25.74	QP
8.36	22.83	0.62	23.45	50.00	-26.55	AVERAGE
8.36	34.43	0.62	35.05	60.00	-24.95	QP
9.02	35.13	0.61	35.74	60.00	-24.26	QP
9.02	22.49	0.61	23.10	50.00	-26.90	AVERAGE

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

EVT : IP822LN
 Power : AC 110V
 Test Mode : 802.11b CH11
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 60 %



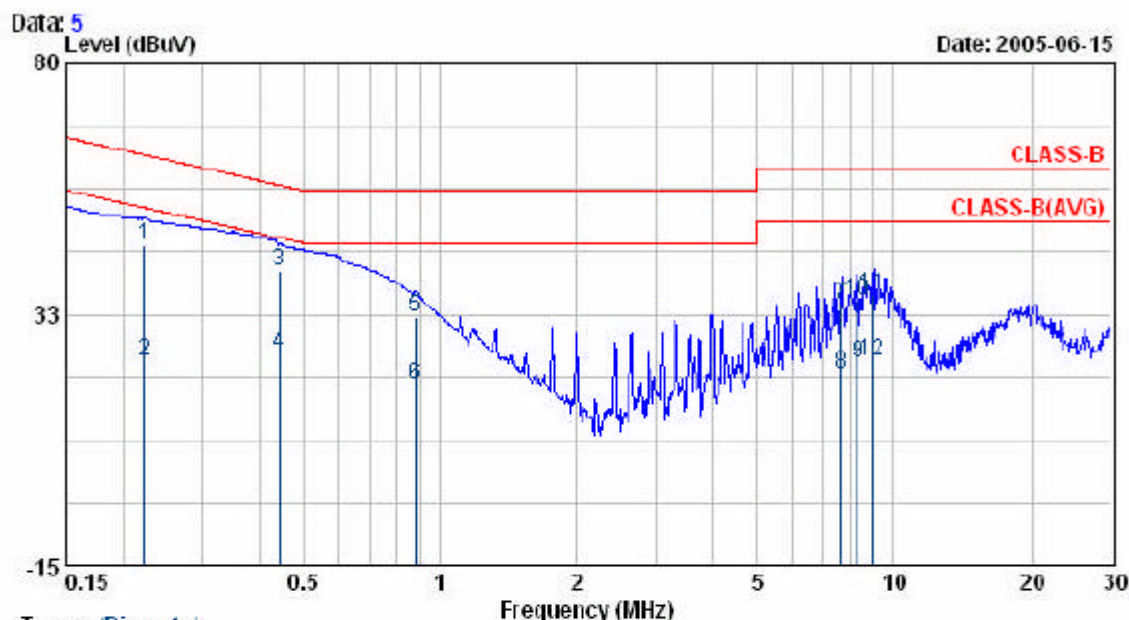
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	19.88	0.34	20.22	49.00	-28.78	AVERAGE
0.35	38.89	0.34	39.23	59.00	-19.77	QP
0.44	24.26	0.39	24.65	47.01	-22.36	AVERAGE
0.44	37.30	0.39	37.69	57.01	-19.32	QP
0.67	30.31	0.34	30.65	56.00	-25.35	QP
0.67	11.50	0.34	11.84	46.00	-34.16	AVERAGE
19.76	24.31	0.41	24.72	50.00	-25.28	AVERAGE
19.76	33.15	0.41	33.56	60.00	-26.44	QP
20.32	36.16	0.40	36.56	60.00	-23.44	QP
20.32	26.49	0.40	26.89	50.00	-23.11	AVERAGE
23.19	34.99	0.40	35.39	60.00	-24.61	QP
23.19	27.05	0.40	27.45	50.00	-22.55	AVERAGE

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

EUT : IP822LN
 Power : AC 110V
 Test Mode : 802.11b CH11
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %



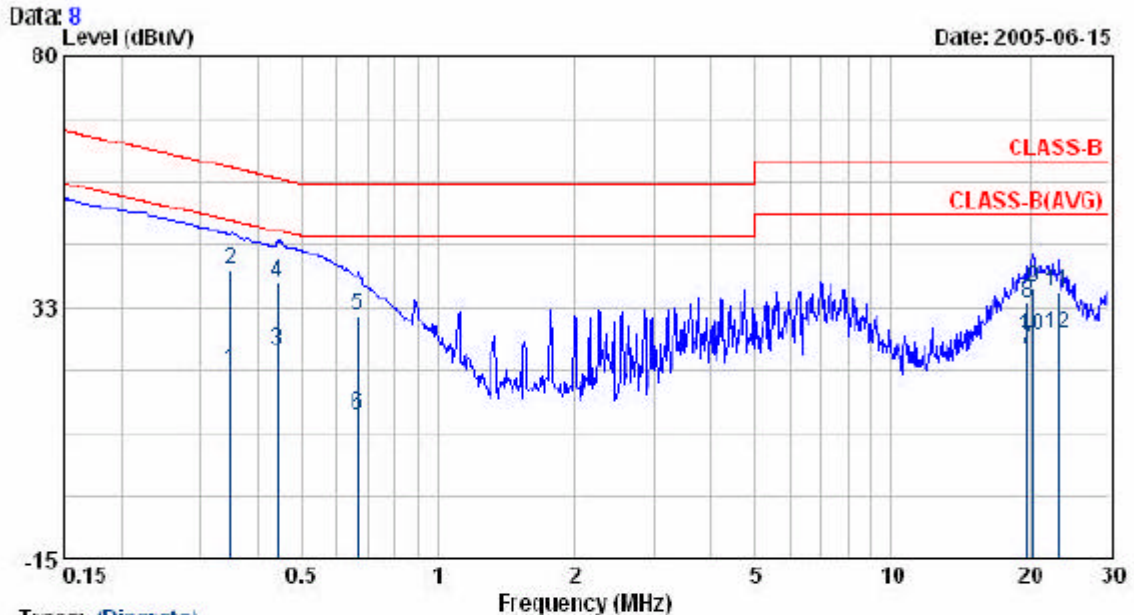
Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	45.13	0.35	45.48	62.71	-17.23	QP
0.22	23.33	0.35	23.68	52.71	-29.03	AVERAGE
0.44	40.00	0.59	40.59	57.04	-16.45	QP
0.44	24.33	0.59	24.92	47.04	-22.12	AVERAGE
0.88	31.36	0.51	31.87	56.00	-24.13	QP
0.88	18.61	0.51	19.12	46.00	-26.88	AVERAGE
7.70	33.71	0.63	34.34	60.00	-25.66	QP
7.70	20.57	0.63	21.20	50.00	-28.80	AVERAGE
8.36	22.74	0.62	23.36	50.00	-26.64	AVERAGE
8.36	34.40	0.62	35.02	60.00	-24.98	QP
9.02	35.49	0.61	36.10	60.00	-23.90	QP
9.02	22.97	0.61	23.58	50.00	-26.42	AVERAGE

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

EUT : IP822LN
 Power : AC 110V
 Test Mode : 802.11g CH1
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 ℃
 Humidity : 60 %



Trace: (Discrete)

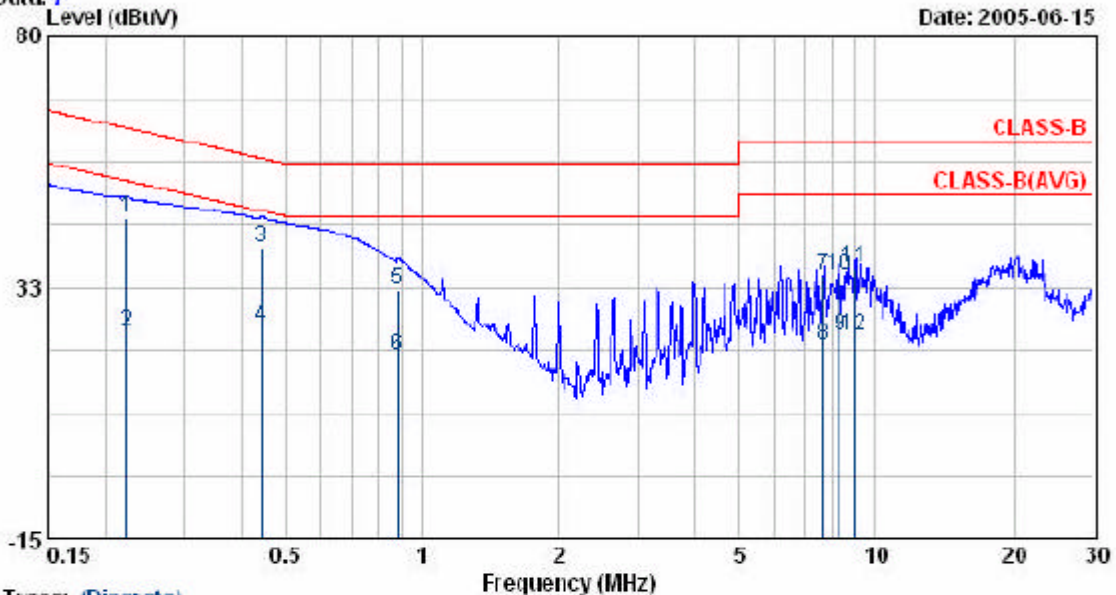
Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	20.30	0.34	20.64	49.00	-28.36	AVERAGE
0.35	39.22	0.34	39.56	59.00	-19.44	QP
0.44	23.90	0.39	24.29	47.01	-22.72	AVERAGE
0.44	36.88	0.39	37.27	57.01	-19.74	QP
0.67	30.49	0.34	30.83	56.00	-25.17	QP
0.67	11.66	0.34	12.00	46.00	-34.00	AVERAGE
19.76	24.29	0.41	24.70	50.00	-25.30	AVERAGE
19.76	33.01	0.41	33.42	60.00	-26.58	QP
20.32	35.70	0.40	36.10	60.00	-23.90	QP
20.32	26.60	0.40	27.00	50.00	-23.00	AVERAGE
23.19	34.89	0.40	35.29	60.00	-24.71	QP
23.19	26.89	0.40	27.29	50.00	-22.71	AVERAGE

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

EVT : IP822LN
 Power : AC 110V
 Test Mode : 802.11g CH1
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %

Data: 7



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	45.34	0.35	45.69	62.71	-17.02	QP
0.22	23.55	0.35	23.90	52.71	-28.81	AVERAGE
0.44	39.55	0.59	40.14	57.04	-16.90	QP
0.44	24.27	0.59	24.86	47.04	-22.18	AVERAGE
0.88	31.33	0.51	31.84	56.00	-24.16	QP
0.88	18.89	0.51	19.40	46.00	-26.60	AVERAGE
7.70	34.00	0.63	34.63	60.00	-25.37	QP
7.70	20.80	0.63	21.43	50.00	-28.57	AVERAGE
8.36	22.59	0.62	23.21	50.00	-26.79	AVERAGE
8.36	34.26	0.62	34.88	60.00	-25.12	QP
9.02	35.44	0.61	36.05	60.00	-23.95	QP
9.02	22.68	0.61	23.29	50.00	-26.71	AVERAGE

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

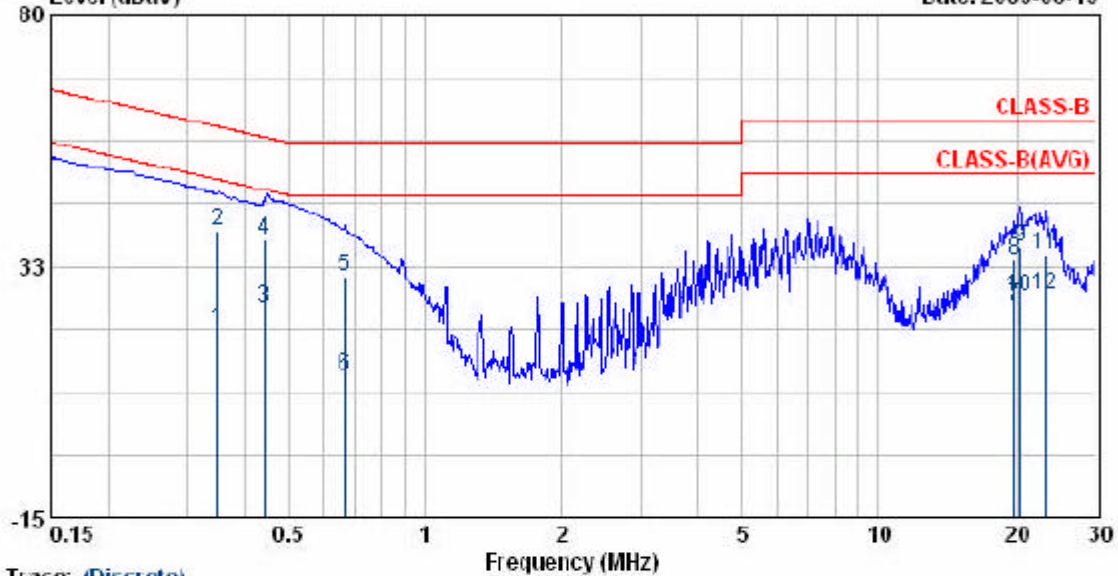
EUT : IP822LN
 Power : AC 110V
 Test Mode : 802.11g CH6
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 60 %

Data: 9

Level (dBuV)

Date: 2005-06-15



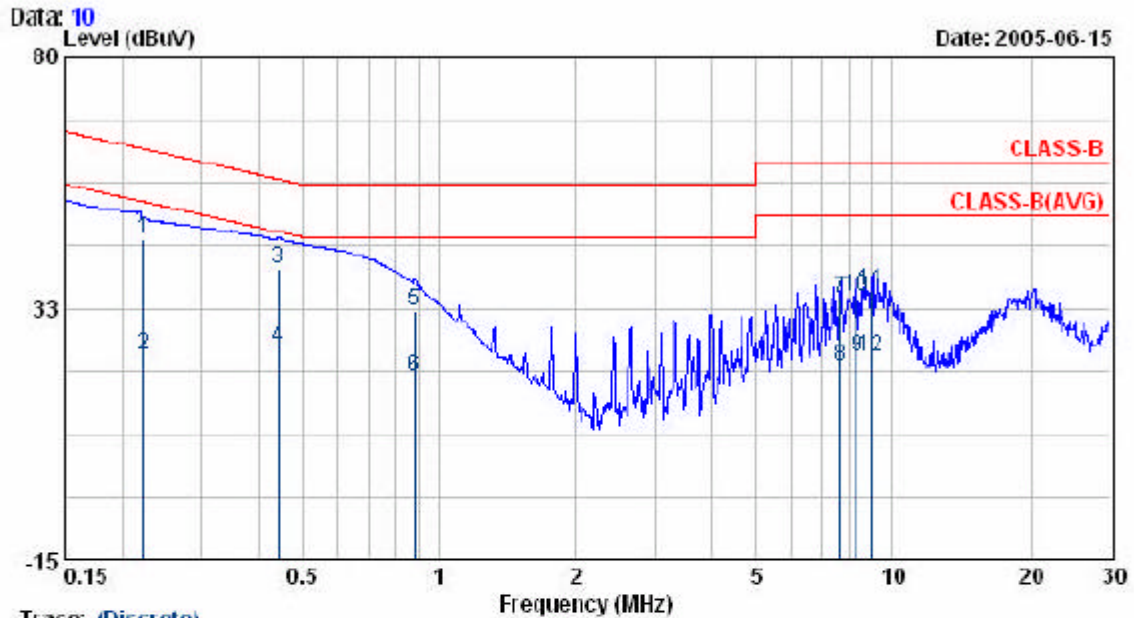
Trace: (Discrete)

Freq	Read	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	20.16	0.34	20.50	49.00	-28.50	AVERAGE
0.35	39.10	0.34	39.44	59.00	-19.56	QP
0.44	24.22	0.39	24.61	47.01	-22.40	AVERAGE
0.44	37.00	0.39	37.39	57.01	-19.62	QP
0.67	30.30	0.34	30.64	56.00	-25.36	QP
0.67	11.44	0.34	11.78	46.00	-34.22	AVERAGE
19.76	24.50	0.41	24.91	50.00	-25.09	AVERAGE
19.76	33.29	0.41	33.70	60.00	-26.30	QP
20.32	35.88	0.40	36.28	60.00	-23.72	QP
20.32	26.50	0.40	26.90	50.00	-23.10	AVERAGE
23.19	34.49	0.40	34.89	60.00	-25.11	QP
23.19	26.70	0.40	27.10	50.00	-22.90	AVERAGE

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

EUT : IP822LN
 Power : AC 110V
 Test Mode : 802.11g CH6
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	45.16	0.35	45.51	62.71	-17.20	QP
0.22	23.39	0.35	23.74	52.71	-28.97	AVERAGE
0.44	39.49	0.59	40.08	57.04	-16.96	QP
0.44	24.50	0.59	25.09	47.04	-21.95	AVERAGE
0.88	31.47	0.51	31.98	56.00	-24.02	QP
0.88	18.88	0.51	19.39	46.00	-26.61	AVERAGE
7.70	33.66	0.63	34.29	60.00	-25.71	QP
7.70	20.79	0.63	21.42	50.00	-28.58	AVERAGE
8.36	22.55	0.62	23.17	50.00	-26.83	AVERAGE
8.36	34.11	0.62	34.73	60.00	-25.27	QP
9.02	35.22	0.61	35.83	60.00	-24.17	QP
9.02	22.68	0.61	23.29	50.00	-26.71	AVERAGE

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

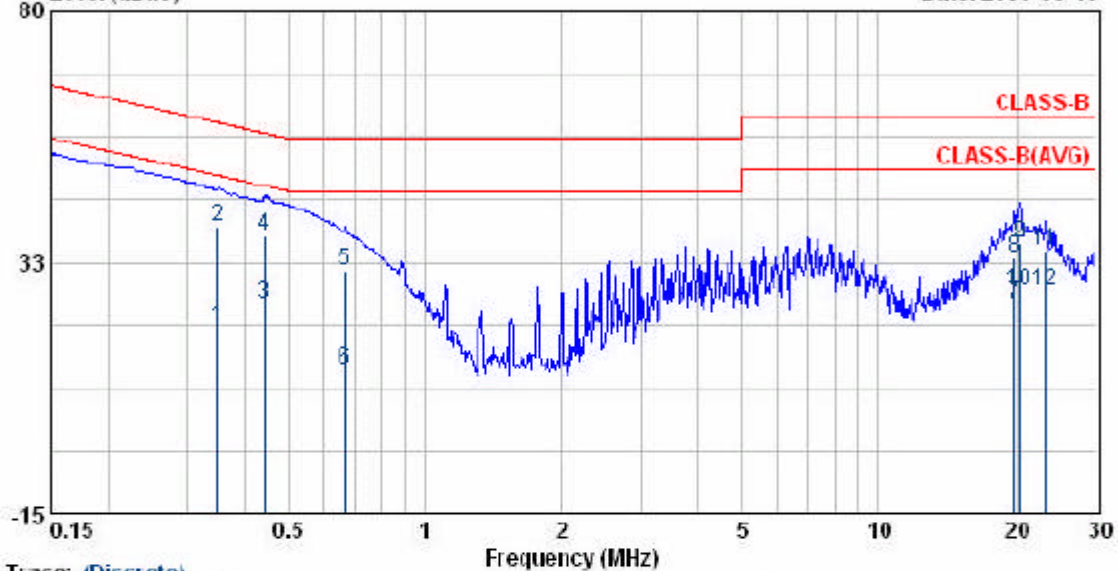
EVT : IP022LN
 Power : AC 110V
 Test Mode : 802.11g CH11
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 60 %

Data: 12

Level (dBuV)

Date: 2005-06-15



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.35	19.83	0.34	20.17	49.00	-28.83	AVERAGE
0.35	38.86	0.34	39.20	59.00	-19.80	QP
0.44	24.20	0.39	24.59	47.01	-22.42	AVERAGE
0.44	37.16	0.39	37.55	57.01	-19.46	QP
0.67	30.63	0.34	30.97	56.00	-25.03	QP
0.67	11.84	0.34	12.18	46.00	-33.82	AVERAGE
19.76	24.11	0.41	24.52	50.00	-25.48	AVERAGE
19.76	33.03	0.41	33.44	60.00	-26.56	QP
20.32	35.87	0.40	36.27	60.00	-23.73	QP
20.32	26.55	0.40	26.95	50.00	-23.05	AVERAGE
23.19	34.44	0.40	34.84	60.00	-25.16	QP
23.19	26.74	0.40	27.14	50.00	-22.86	AVERAGE

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

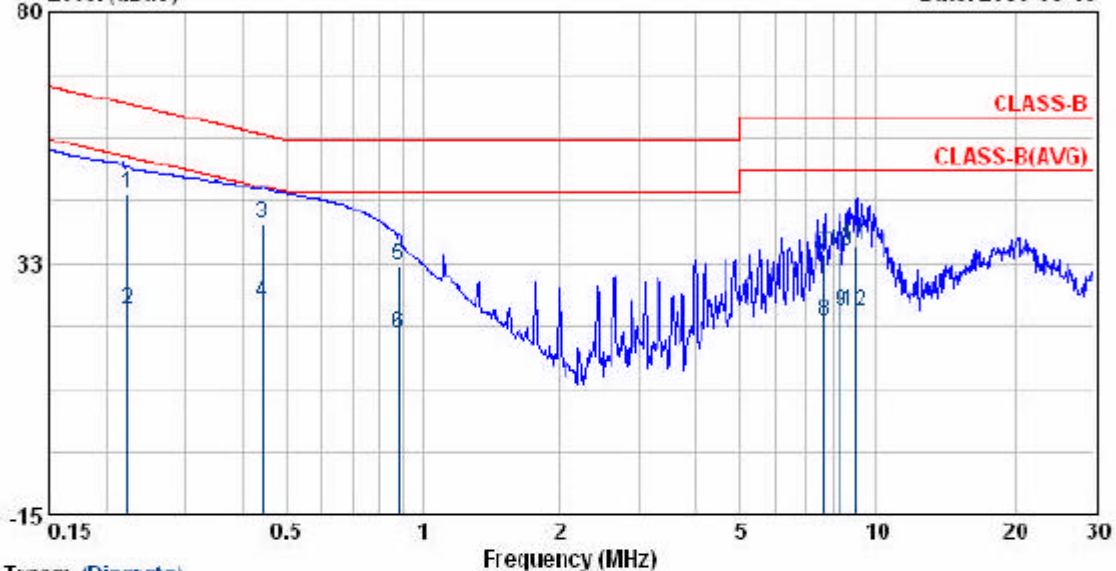
EVT : IP822LN
 Power : AC 110V
 Test Mode : 802.11g CH11
 Memo :

Pol/Phase : LINE
 Temperature : 25 ℃
 Humidity : 60 %

Data: 11

Level (dBuV)

Date: 2005-06-15



Trace: (Discrete)

Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.22	45.16	0.35	45.51	62.71	-17.20	QP
0.22	23.39	0.35	23.74	52.71	-28.97	AVERAGE
0.44	39.49	0.59	40.08	57.04	-16.96	QP
0.44	24.50	0.59	25.09	47.04	-21.95	AVERAGE
0.88	31.56	0.51	32.07	56.00	-23.93	QP
0.88	18.76	0.51	19.27	46.00	-26.73	AVERAGE
7.70	33.46	0.63	34.09	60.00	-25.91	QP
7.70	20.76	0.63	21.39	50.00	-28.61	AVERAGE
8.36	22.68	0.62	23.30	50.00	-26.70	AVERAGE
8.36	34.30	0.62	34.92	60.00	-25.08	QP
9.02	35.36	0.61	35.97	60.00	-24.03	QP
9.02	22.77	0.61	23.38	50.00	-26.62	AVERAGE

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

Test engineer:

4.5.1. Test Photographs

REAR VIEW

