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, Taiwan, R.O.C.
Equipment	A or G Wireless Router
Model No.	IP906SM
FCC ID	P27IP906SM
Trade Name	Sercomm

Laboratory Accreditation

CNLA

1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of ***E**xclusive **C**ertification **C**orp.* 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, Taiwan, R.O.C.
Equipment	A or G Wireless Router
Model No.	IP906SM
FCC ID	P27IP906SM

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. 27, 2005 at ***E**xclusive **C**ertification **C**orp.*

Signature

Anson Chou Jun. 14, 2005

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

- Access point supported
- Roaming supported
- IEEE 802.11a /b/g compliance
- selectable domain supported
- WEP 64 bit and 128 bit security supported
- WPA-PSK supported
- WPA2 supported
- Modulation: Direct Sequence Spread Spectrum BPSK / QPSK / CCK/OFDM
- Wi-Fi Compatible (Pre-Test)
- Auto-sensing Open system/ Share key authentication
- SSID broadcast can enable/disable

2.2 RF Module Specifications

Type of Modulation	BPSK,QPSK,CCK-OFDM
Number of Channels	USA/Canada: b/g band: 11 a band: 13 European: b/g band: 13 a band: 11 Japan: b/g band: 14 a band: 11
Frequency Band	2.412~2.484GHZ MKK 4.92~4.98 GHZ 5.04~5.23 GHZ FCC 5.18~5.32 GHZ 5.745~5.825 GHZ ETSI 5.5~5.7 GHZ
Carrier Frequency of each channel	b/g band 2.412,2.417,2.422,2.427,2.432,2.437,2.442,2.447,2.452,2.457,2.462,2.467,2.472,2.484(GHZ) a band 4.92,4.94,4.96,4.98,5.04,5.06,5.08,5.17, 5.19,5.21,5.23 5.18,5.2,5.22,5.24,5.26,5.28,5.3,5.32, 5.745,5.765,5.785,5.805,5.825 5.5,5.52,5.54,5.56,5.58,5.6,5.62,5.64, 5.66,5.68,5.7
Bandwidth of each channel	16MHZ/802.11a/g,22MHZ/802.11b
Maximum Output Power to Antenna	18dBm/802.11b, 15dBm/802.11a/g

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.

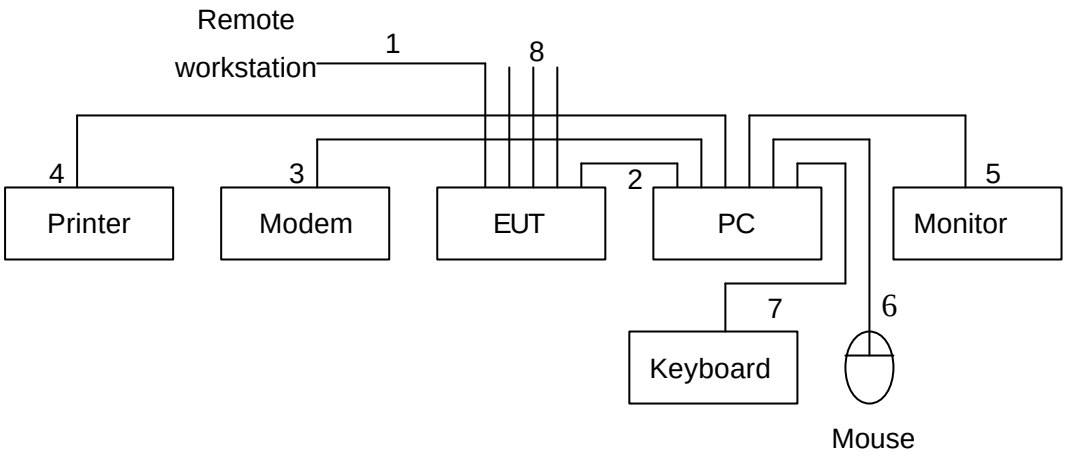
2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	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 Unshielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT shielding 1.6 m
Notebook (Remote site)	Dell	510 m	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Description
RJ-45	Unshielding, 10m
Floating*3	Unshielding, 0.5m

2.5 Connection Diagram of Test System



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

Antenna type: Integral dipole Antenna.

Antenna Gain: 2 dBi.

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4. Test of Conducted Emission

4.1 Test Limit

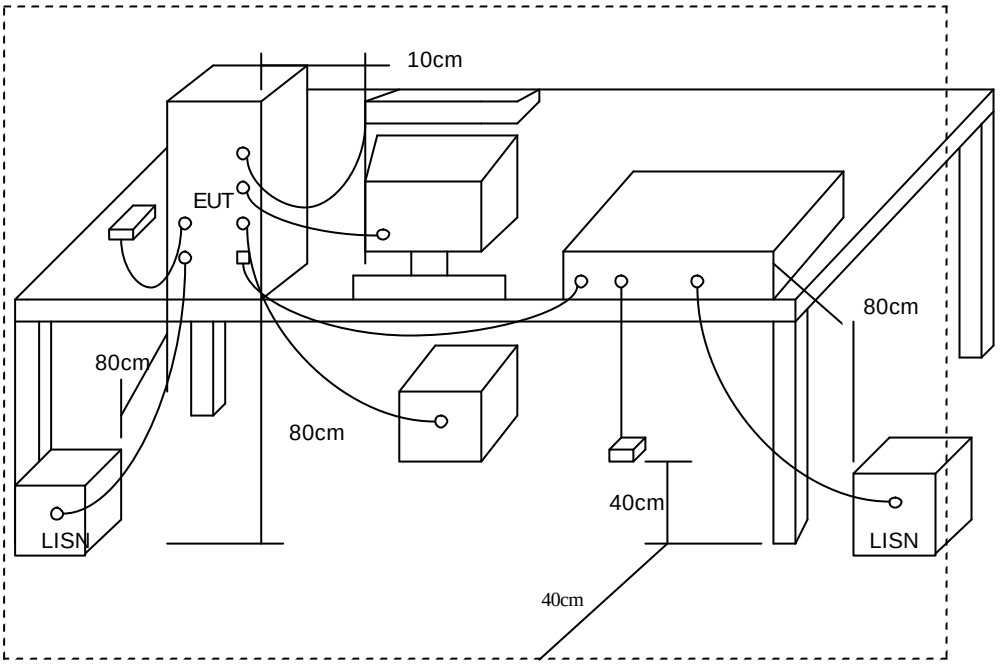
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 4.2. 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

a. 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.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

4.3 Typical Test Setup



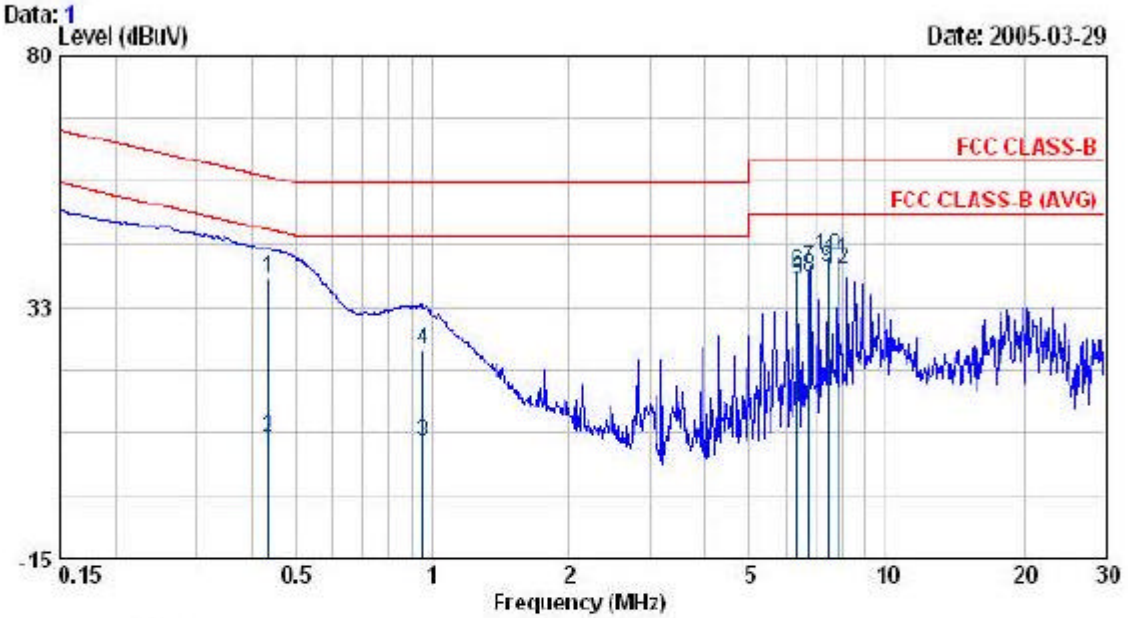
4.4 Measurement equipment

Instrument/Ancillary	Type	Manufacturer	Valid Date.
Receiver	SCR3501	Schaffner	2005/11/03
LISN	NNB-2/16Z	ROLF HEINE	2005/04/26
LISN	ROLF HEINE	NNB-2/16Z	2006/04/25

4.5 Test Result and Data

EUT : IP906SM
Power : AC 110V
Test Mode : 802.11b CH 1
Memo :

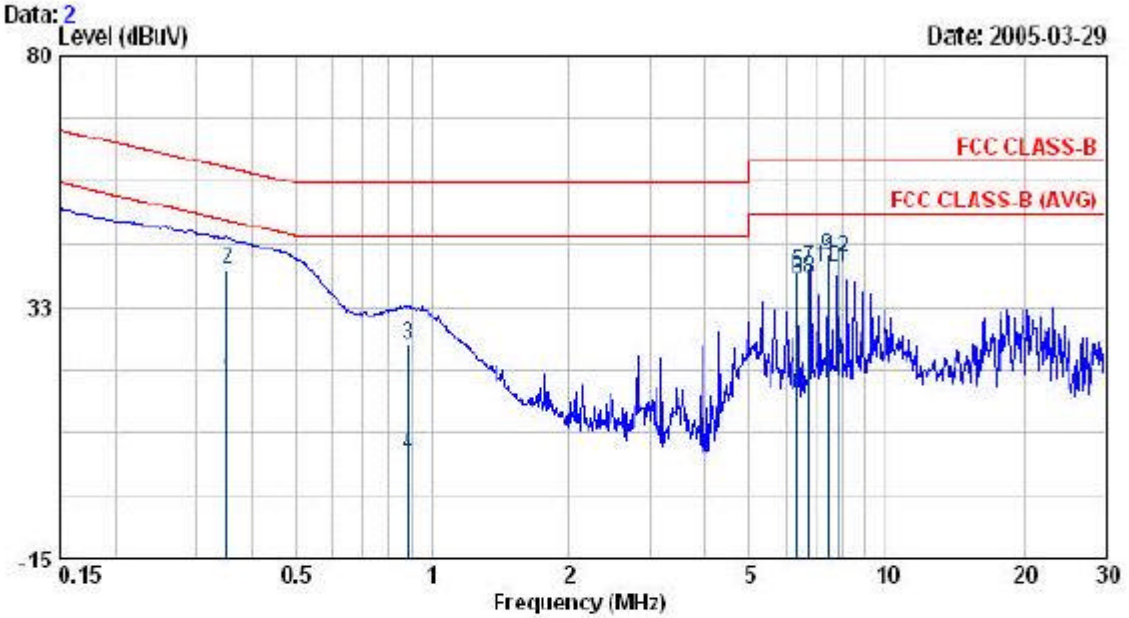
Pol/Phase : NEUTRAL
Temperature : 26 °C
Humidity : 58 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.433	37.49	0.49	37.98	57.20	-19.22	QP
0.433	7.22	0.49	7.71	47.20	-39.49	AVERAGE
0.948	6.41	0.41	6.82	46.00	-39.18	AVERAGE
0.948	24.09	0.41	24.50	56.00	-31.50	QP
6.378	37.00	0.50	37.50	50.00	-12.50	AVERAGE
6.378	38.46	0.50	38.96	60.00	-21.04	QP
6.731	39.32	0.50	39.82	60.00	-20.18	QP
6.731	37.61	0.50	38.11	50.00	-11.89	AVERAGE
7.440	39.48	0.50	39.98	50.00	-10.02	AVERAGE
7.440	41.69	0.50	42.19	60.00	-17.81	QP
7.796	40.86	0.50	41.36	60.00	-18.64	QP
7.796	39.25	0.50	39.75	50.00	-10.25	AVERAGE

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

EUT	: **IP906SM**		
Power	: AC 110V	Pol/Phase	: LINE
Test Mode	: 802.11b CH 1	Temperature	: 26 °C
Memo	:	Humidity	: 58 %

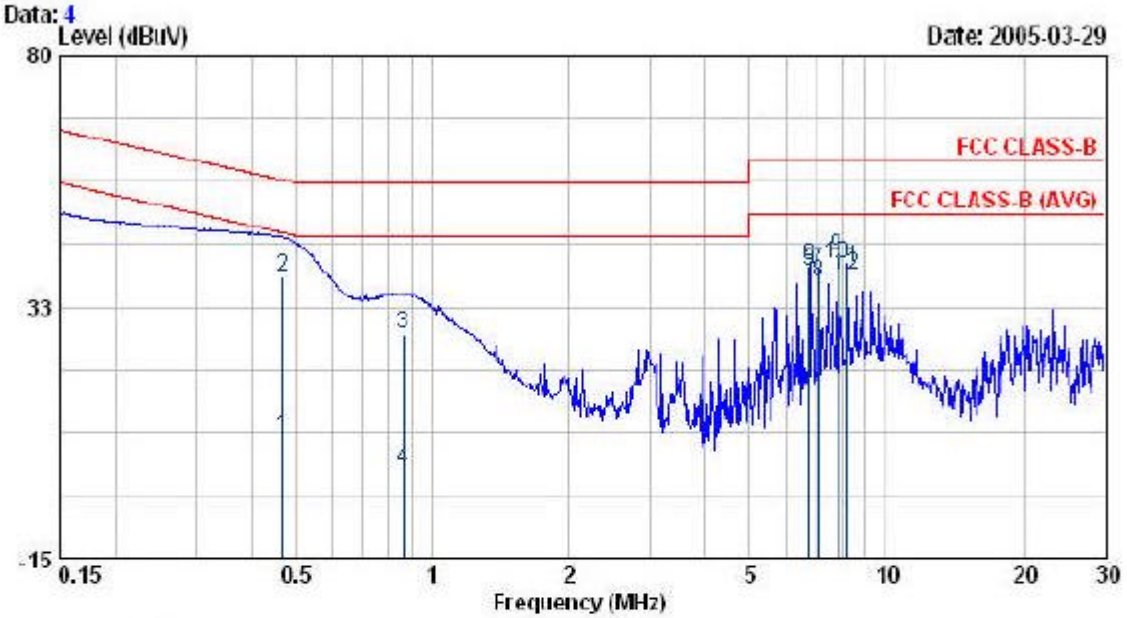


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.352	18.23	0.44	18.67	48.92	-30.24	AVERAGE
0.352	39.30	0.44	39.74	58.92	-19.17	QP
0.885	24.87	0.41	25.28	56.00	-30.72	QP
0.885	4.09	0.41	4.50	46.00	-41.50	AVERAGE
6.378	38.47	0.45	38.92	60.00	-21.08	QP
6.378	37.03	0.45	37.48	50.00	-12.52	AVERAGE
6.732	39.39	0.44	39.83	60.00	-20.17	QP
6.732	37.49	0.44	37.93	50.00	-12.07	AVERAGE
7.440	41.73	0.43	42.16	60.00	-17.84	QP
7.440	39.61	0.43	40.04	50.00	-9.96	AVERAGE
7.796	39.61	0.43	40.04	50.00	-9.96	AVERAGE
7.796	41.40	0.43	41.83	60.00	-18.17	QP

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11b CH 6
Memo :

Pol/Phase : NEUTRAL
Temperature : 26 °C
Humidity : 58 %

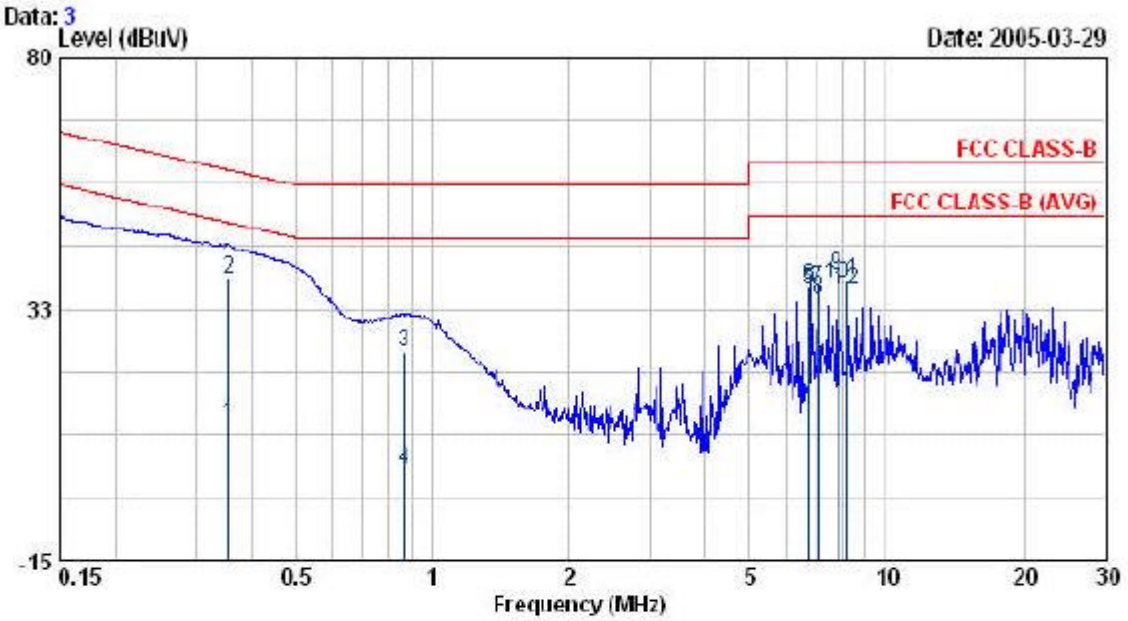


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.466	7.44	0.48	7.92	46.58	-38.66	AVERAGE
0.466	37.62	0.48	38.10	56.58	-18.48	QP
0.859	26.92	0.42	27.34	56.00	-28.66	QP
0.859	1.40	0.42	1.82	46.00	-44.18	AVERAGE
6.742	38.94	0.50	39.44	50.00	-10.56	AVERAGE
6.742	39.68	0.50	40.38	60.00	-19.62	QP
7.096	38.89	0.50	39.39	60.00	-20.61	QP
7.096	36.80	0.50	37.30	50.00	-12.70	AVERAGE
7.805	41.48	0.50	41.98	60.00	-18.02	QP
7.805	40.01	0.50	40.51	50.00	-9.49	AVERAGE
8.161	39.36	0.50	39.86	60.00	-20.14	QP
8.161	38.07	0.50	38.57	50.00	-11.43	AVERAGE

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

EUT : IP906SM
Power : AC 110V
Test Mode : 802.11b CH 6
Memo :

Pol/Phase : LINE
Temperature : 26 °C
Humidity : 58 %

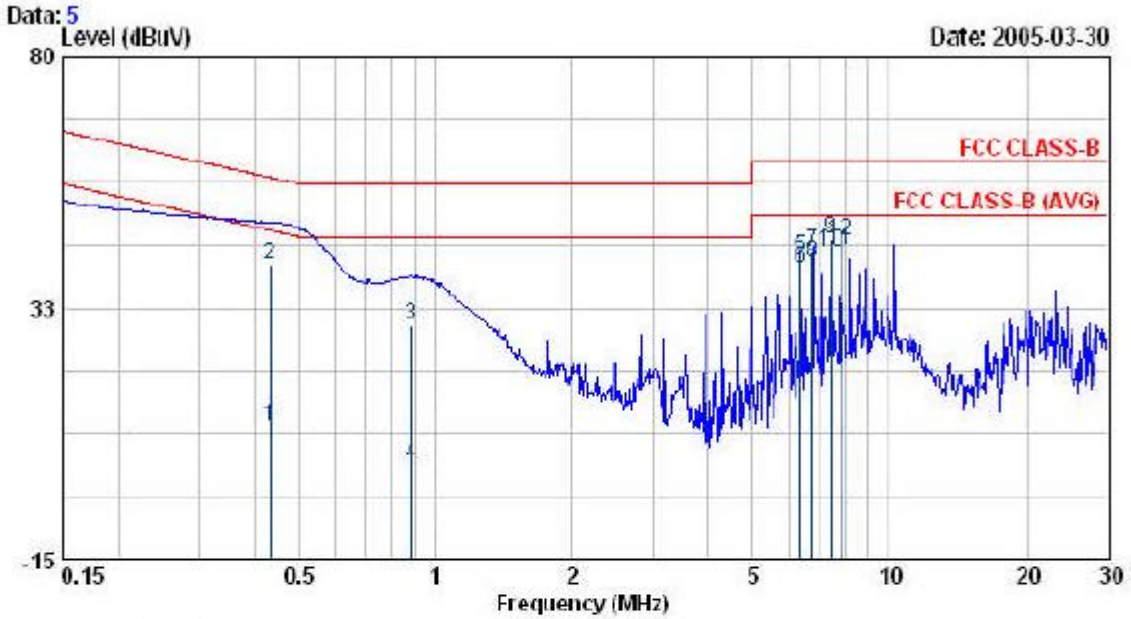


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.356	10.40	0.45	10.85	48.83	-37.98	AVERAGE
0.356	37.82	0.45	38.27	58.83	-20.56	QP
0.862	24.01	0.42	24.43	56.00	-31.57	QP
0.862	1.49	0.42	1.91	46.00	-44.09	AVERAGE
6.743	35.59	0.44	36.02	50.00	-13.98	AVERAGE
6.743	36.37	0.44	36.81	60.00	-23.19	QP
7.097	36.17	0.44	36.61	60.00	-23.39	QP
7.097	33.92	0.44	34.36	50.00	-15.64	AVERAGE
7.805	38.51	0.43	38.94	60.00	-21.06	QP
7.805	36.62	0.43	37.05	50.00	-12.95	AVERAGE
8.161	37.34	0.42	37.76	60.00	-22.24	QP
8.161	35.78	0.42	36.20	50.00	-13.80	AVERAGE

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

EUT : IP906SM
Power : AC 110V
Test Mode : 802.11b CH 11
Memo :

Pol/Phase : NEUTRAL
Temperature : 26 °C
Humidity : 58 %

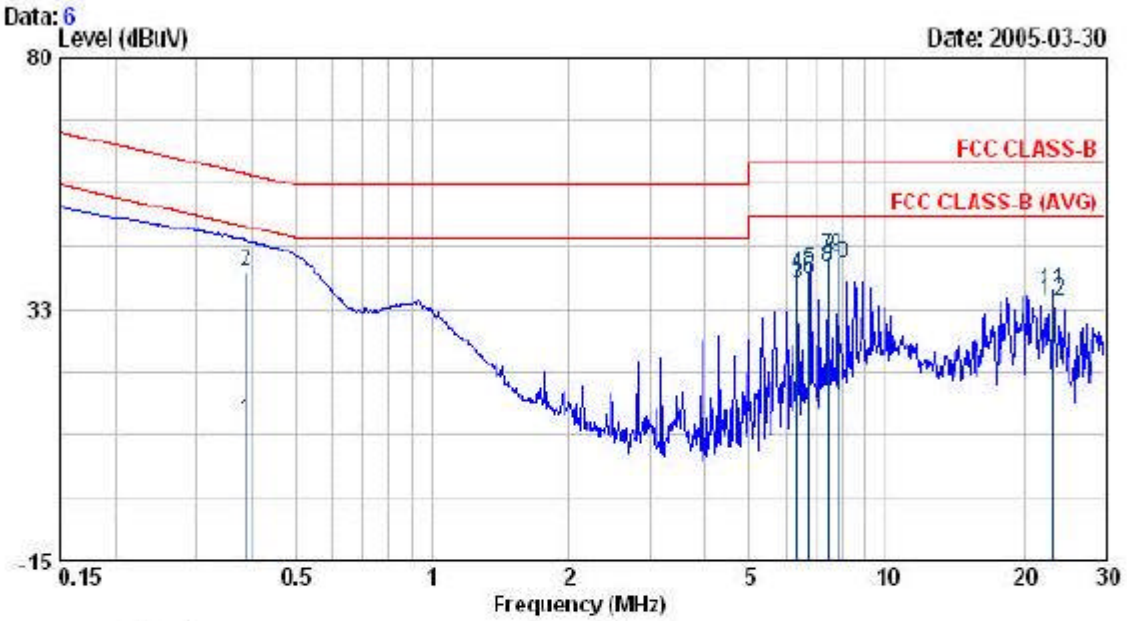


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.431	9.64	0.49	10.13	47.24	-37.11	AVERAGE
0.431	40.19	0.49	40.68	57.24	-16.56	QP
0.885	28.65	0.41	29.06	56.00	-26.94	QP
0.885	2.47	0.41	2.88	46.00	-43.12	AVERAGE
6.381	41.45	0.50	41.95	60.00	-18.05	QP
6.381	39.60	0.50	40.10	50.00	-9.90	AVERAGE
6.736	42.51	0.50	43.01	60.00	-16.99	QP
6.736	40.66	0.50	41.16	50.00	-8.84	AVERAGE
7.444	45.01	0.50	45.51	60.00	-14.49	QP
7.444	42.67	0.50	43.17	50.00	-6.83	AVERAGE
7.797	43.13	0.50	43.63	50.00	-6.37	AVERAGE
7.797	44.71	0.50	45.21	60.00	-14.79	QP

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11b CH 11
Memo :

Pol/Phase : LINE
Temperature : 26 ℃
Humidity : 58 %

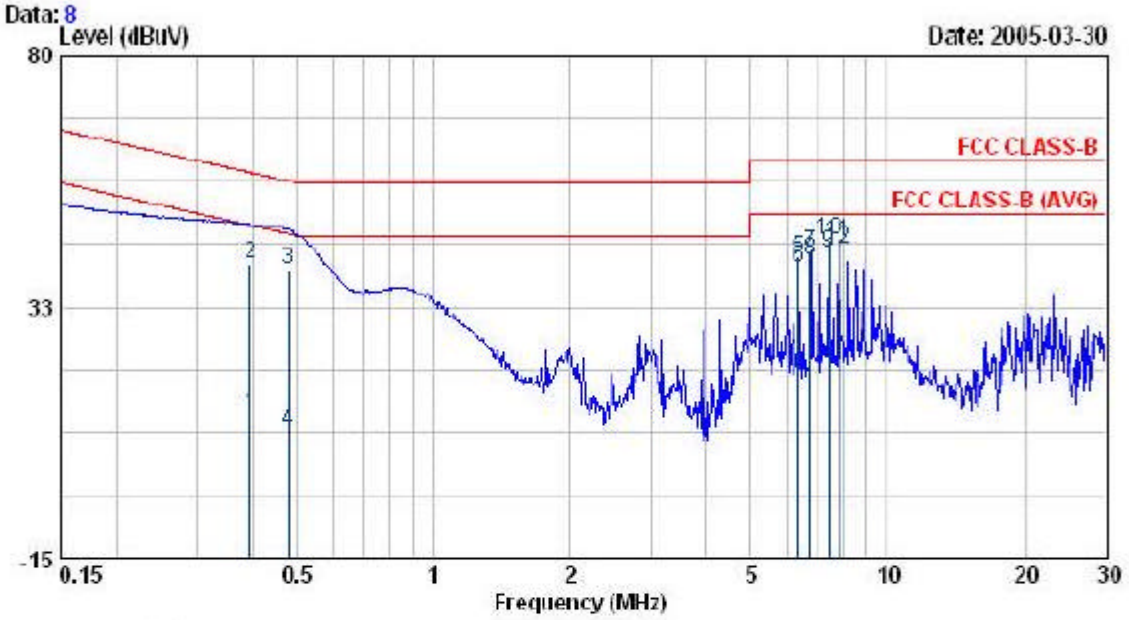


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.387	10.92	0.49	11.41	48.12	-36.72	AVERAGE
0.387	39.05	0.49	39.54	58.12	-18.59	QP
6.379	36.58	0.45	37.03	50.00	-12.97	AVERAGE
6.379	38.35	0.45	38.80	60.00	-21.20	QP
6.734	39.54	0.44	39.98	60.00	-20.02	QP
6.734	37.84	0.44	38.28	50.00	-11.72	AVERAGE
7.442	42.10	0.43	42.53	60.00	-17.47	QP
7.442	39.73	0.43	40.16	50.00	-9.84	AVERAGE
7.796	41.87	0.43	42.30	60.00	-17.70	QP
7.796	40.55	0.43	40.98	50.00	-9.02	AVERAGE
23.128	35.24	0.96	36.20	60.00	-23.80	QP
23.128	33.26	0.96	34.22	50.00	-15.78	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 1
Memo :

Pol/Phase : NEUTRAL
Temperature : 26 °C
Humidity : 58 %

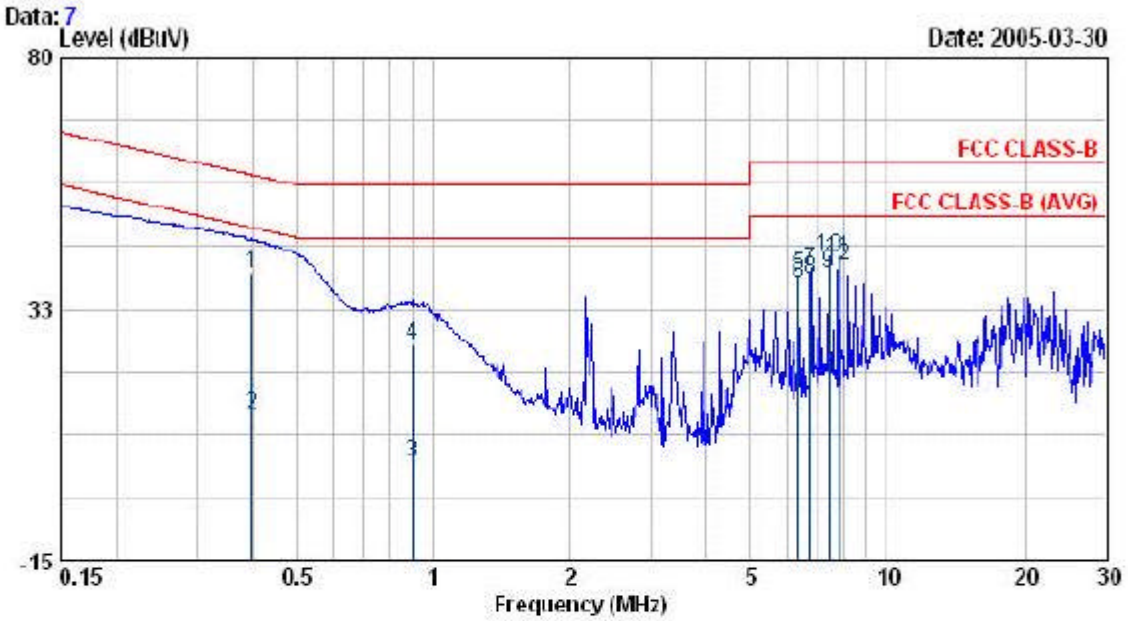


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.393	11.81	0.49	12.30	47.99	-35.69	AVERAGE
0.393	40.15	0.49	40.64	57.99	-17.35	QP
0.476	38.98	0.48	39.46	56.41	-16.95	QP
0.476	8.59	0.48	9.07	46.41	-37.34	AVERAGE
6.379	41.15	0.50	41.65	60.00	-18.35	QP
6.379	39.53	0.50	40.03	50.00	-9.97	AVERAGE
6.732	42.30	0.50	42.80	60.00	-17.20	QP
6.732	40.70	0.50	41.20	50.00	-8.80	AVERAGE
7.441	42.23	0.50	42.73	50.00	-7.27	AVERAGE
7.441	44.66	0.50	45.16	60.00	-14.84	QP
7.796	44.47	0.50	44.97	60.00	-15.03	QP
7.796	43.12	0.50	43.62	50.00	-6.38	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 1
Memo :

Pol/Phase : LINE
Temperature : 26 °C
Humidity : 58 %

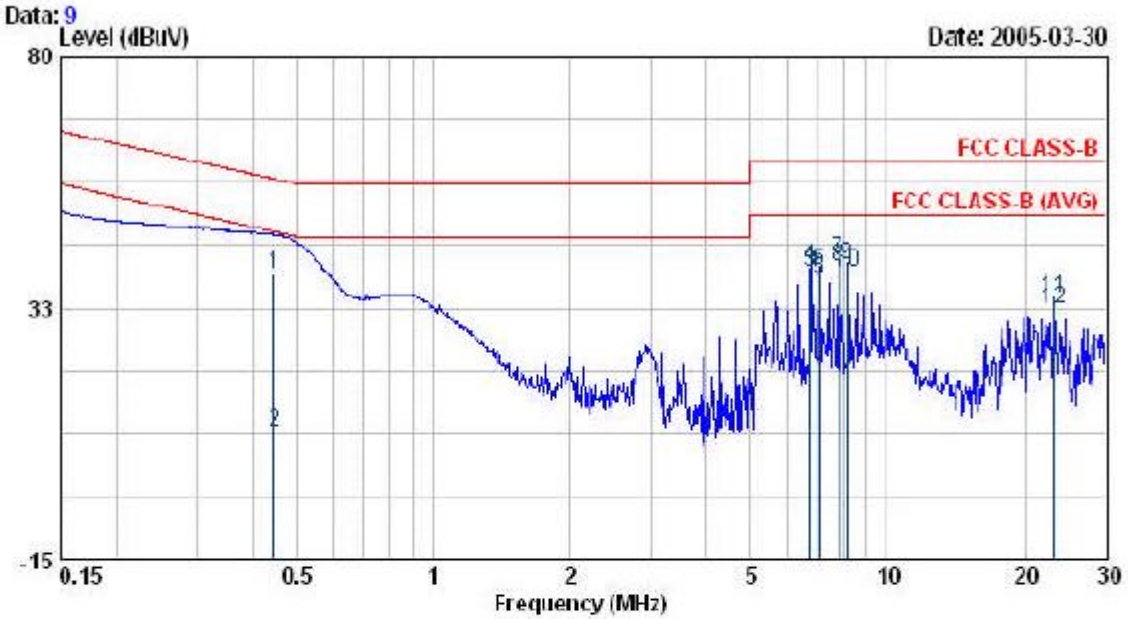


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.398	38.82	0.50	39.32	57.90	-18.59	QP
0.398	11.99	0.50	12.49	47.90	-35.42	AVERAGE
0.899	3.09	0.41	3.50	46.00	-42.50	AVERAGE
0.899	25.23	0.41	25.64	56.00	-30.36	QP
6.380	38.37	0.45	38.82	60.00	-21.18	QP
6.380	36.88	0.45	37.33	50.00	-12.67	AVERAGE
6.735	39.41	0.44	39.85	60.00	-20.15	QP
6.735	37.71	0.44	38.15	50.00	-11.85	AVERAGE
7.444	39.02	0.43	39.45	50.00	-10.55	AVERAGE
7.444	41.84	0.43	42.27	60.00	-17.73	QP
7.797	41.81	0.43	42.24	60.00	-17.76	QP
7.797	40.41	0.43	40.84	50.00	-9.16	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 6
Memo :

Pol/Phase : NEUTRAL
Temperature : 26 °C
Humidity : 58 %

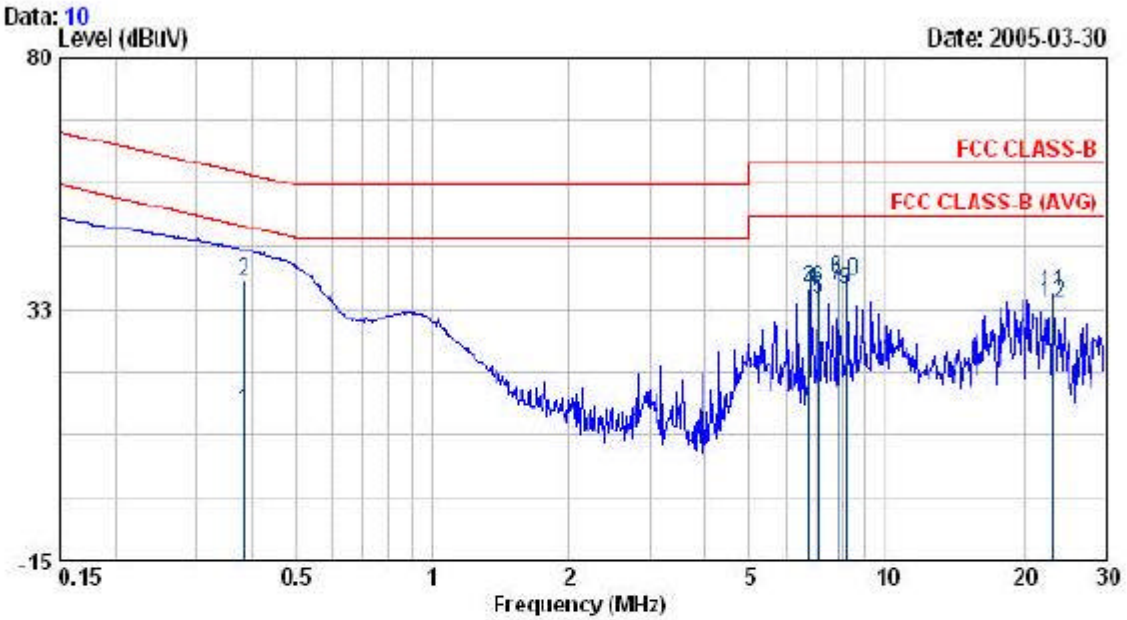


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.444	38.38	0.49	38.87	56.98	-18.11	QP
0.444	8.42	0.49	8.91	46.98	-38.07	AVERAGE
6.742	38.68	0.50	39.18	50.00	-10.82	AVERAGE
6.742	39.71	0.50	40.21	60.00	-19.79	QP
7.096	37.27	0.50	37.77	50.00	-12.23	AVERAGE
7.096	39.25	0.50	39.75	60.00	-20.25	QP
7.806	41.30	0.50	41.80	60.00	-18.20	QP
7.806	39.77	0.50	40.27	50.00	-9.73	AVERAGE
8.161	40.20	0.50	40.70	60.00	-19.30	QP
8.161	38.63	0.50	39.13	50.00	-10.87	AVERAGE
23.128	33.61	0.77	34.38	60.00	-25.62	QP
23.128	31.65	0.77	32.42	50.00	-17.58	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 6
Memo :

Pol/Phase : LINE
Temperature : 26 ℃
Humidity : 58 %

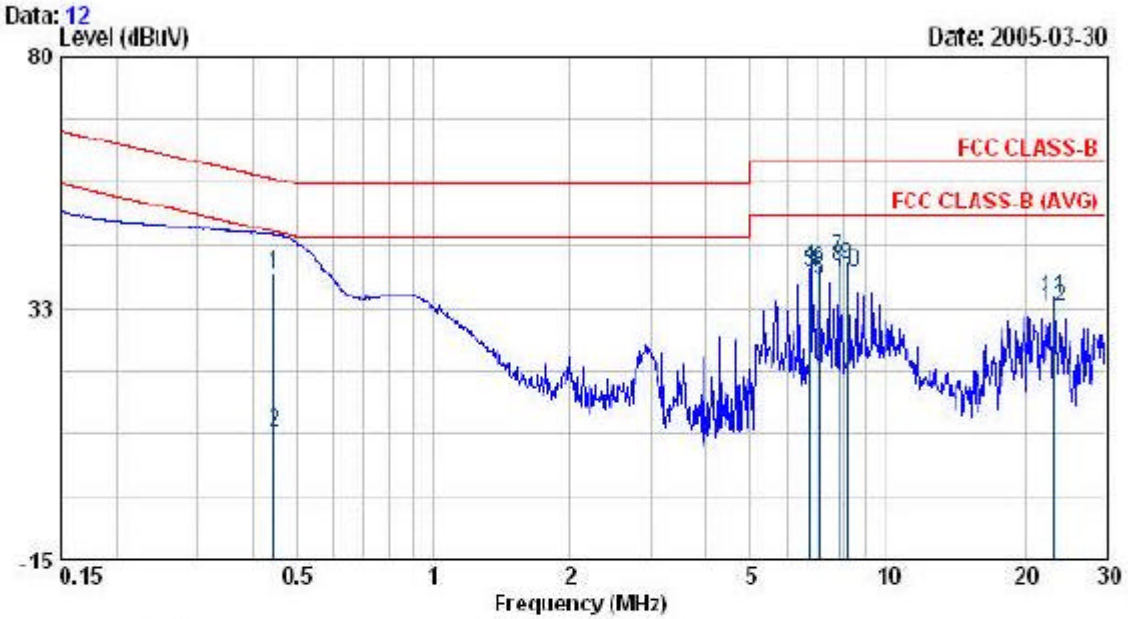


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.383	12.62	0.48	13.10	48.21	-35.11	AVERAGE
0.383	37.51	0.48	37.99	58.21	-20.22	QP
6.742	36.19	0.44	36.63	60.00	-23.37	QP
6.742	35.21	0.44	35.65	50.00	-14.35	AVERAGE
7.096	33.91	0.44	34.35	50.00	-15.65	AVERAGE
7.096	36.12	0.44	36.56	60.00	-23.44	QP
7.806	36.33	0.43	36.76	50.00	-13.24	AVERAGE
7.806	37.94	0.43	38.37	60.00	-21.63	QP
8.159	35.84	0.42	36.26	50.00	-13.74	AVERAGE
8.159	37.47	0.42	37.89	60.00	-22.11	QP
23.128	34.82	0.96	35.78	60.00	-24.22	QP
23.128	32.83	0.96	33.79	50.00	-16.21	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 11
Memo :

Pol/Phase : NEUTRAL
Temperature : 26 ℃
Humidity : 58 %

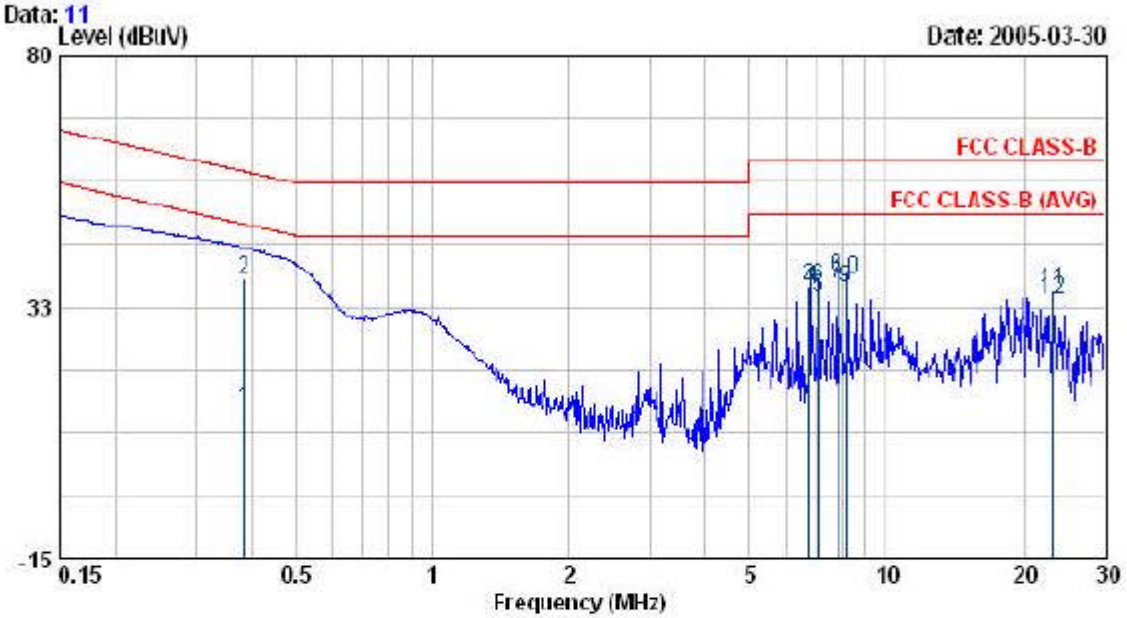


Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.444	38.45	0.49	38.94	56.98	-18.04	QP
0.444	8.51	0.49	9.00	46.98	-37.98	AVERAGE
6.742	38.71	0.50	39.21	50.00	-10.79	AVERAGE
6.742	39.85	0.50	40.35	60.00	-19.65	QP
7.096	37.51	0.50	38.01	50.00	-11.99	AVERAGE
7.096	39.35	0.50	39.85	60.00	-20.15	QP
7.806	41.46	0.50	41.96	60.00	-18.04	QP
7.806	39.81	0.50	40.31	50.00	-9.69	AVERAGE
8.161	40.31	0.50	40.81	60.00	-19.19	QP
8.161	38.74	0.50	39.24	50.00	-10.76	AVERAGE
23.128	33.73	0.77	34.50	60.00	-25.50	QP
23.128	31.76	0.77	32.53	50.00	-17.47	AVERAGE

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

EUT : **IP906SM**
Power : AC 110V
Test Mode : 802.11g CH 11
Memo :

Pol/Phase : LINE
Temperature : 26 ℃
Humidity : 58 %



Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dBuV	
0.383	12.71	0.48	13.19	48.21	-35.02	AVERAGE
0.383	37.56	0.48	38.04	58.21	-20.17	QP
6.742	36.21	0.44	36.65	60.00	-23.35	QP
6.742	35.26	0.44	35.70	50.00	-14.30	AVERAGE
7.096	33.97	0.44	34.41	50.00	-15.59	AVERAGE
7.096	36.15	0.44	36.59	60.00	-23.41	QP
7.806	36.38	0.43	36.81	50.00	-13.19	AVERAGE
7.806	37.98	0.43	38.41	60.00	-21.59	QP
8.159	35.89	0.42	36.31	50.00	-13.69	AVERAGE
8.159	37.51	0.42	37.93	60.00	-22.07	QP
23.128	34.84	0.96	35.80	60.00	-24.20	QP
23.128	32.96	0.96	33.92	50.00	-16.08	AVERAGE

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

Test engineer Carol

4.5.1 Test Photographs

FRONT VIEW

REAR VIEW