EMC
TEST REPORT

Report No. **: EME-020024R**
Model No. **: XI-305B**
Issued Date **: Mar. 29, 2002**

Applicant **: Z-COM, Inc.**
7F-2, No. 9, Prosperity 1st RD., Science-Based
Industrial Park, Hsinchu, Taiwan, R.O.C.

Test By **: Intertek Testing Services Taiwan Ltd.**
No. 11, Ko-Tze-Nan Chia-Tung Li, Shiang-Shan District,
Hsinchu, Taiwan, R.O.C.

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2.4GHz wireless LAN card -Model: XI-305B
FCC ID: M4Y-0305B

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Maximum Output Power test	15.247(b)	Complies
RF Antenna Conducted test	15.247(c)	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	: Z-COM, Inc.
Product	: 2.4GHz wireless LAN card
Model No.	: XI-305B
FCC ID	: M4Y-0305B
Frequency Range	: 2412MHz to 2462MHz
Channel Number	: 11 channels
Frequency of Each Channel	: 2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz, 2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz
Type of Modulation	: CCK (11Mps, 5.5Mbps), DQPSK(2Mbps), DBPSK(1Mbps)
Power Supply	: 3.3/5Vdc
Power Cord	: N/A
Sample Received	: Mar. 18, 2002
Test Date(s)	: Mar. 19, 2002 to Mar. 26, 2002

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The 2.4GHz wireless LAN card is an IEEE802.11/802.11b-compliant PCMCIA Type II DSSS wireless LAN adapter. It fully supports wireless networking under Windows 98/ME/NT/2000/XP. It can be operated in Ad-Hoc or Infrastructure network configurations. Ad-Hoc mode allows 11Mbps Wireless PC Card users to join a Basic Service Set (i.e., peer-to-peer mode, without access point). Infrastructure mode allows 11Mbps Wireless PC Card users to join an Extended Basic Service Set (i.e., connect to an Access Point)

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

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi
Antenna Type : Path antenna

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.	FCC ID
Notebook	Acer	340	9140F01F4CD3800C07M	FCC DoC Approved
Print	HP	C2642A	TH86K1N2ZB	FCC DoC Approved
Modem	Aski	V1456VQE	700V23100066865	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 §15.207、§15.209 、§15.247 and ANSI C63.4/1992.

The AC power conducted emissions was invested over the frequency range from 0.45MHz to 30MHz using a receiver bandwidth of 9kHz. (15.207 paragraph)

Radiated emissions were invested 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 recorded also on the report.

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.

The EUT setup configurations please refer to the photo of test configuration in item.

2.2 Operation mode

Plug the EUT into Notebook via a PCMCIA extender, and then run the software “AT76C502ARFmd.Test.exe” under Windows OS.

Select the wanted mode (Continuously Transmit) to perform all the tests.

2.4 Test equipment

Equipment	Brand	Frequency range	Model No.	Series No.	Next Cal.Date
EMI Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	825788/014	May 29, 2002
Pulse Limiter	Rohde & Schwarz	9kHz~30MHz	ESH3-Z2	848.766/052	N/A
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	July 9, 2002
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5822	Sep. 10, 2002
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	June 21, 2002
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3111	June 21, 2002
Turn Table	HDGmbH	N/A	DS 420S	420/669/01	N/A
Antenna Tower	HDGmbH	N/A	MA 240	240/573	N/A
RF Power Meter	Boonton	10kHz~100GHz	4230	27003	June 12, 2002
Power Sensor	Boonton	30MHz~8GHz	51011-EMC	30395	June 12, 2002
Power Sensor	Boonton	30MHz~8GHz	51011-EMC	30417	June 12, 2002
Microwave Amplifier	Agilent	2GHz~26.5GHz	8348A	3111A00567	Dec. 20, 2002

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

3. Minimum 6dB Bandwidth test

3.1 Operating environment

Temperature: 22 ℃
Relative Humidity: 60 %

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 1MHz, the video bandwidth set at 1MHz, 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.

See Minimum 6dB Bandwidth plot as file name “Minimum 6dB Bandwidth plot.pdf”

3.3 Measured data of Minimum 6dB Bandwidth test results

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
Low	2412	10.6	＞500kHz
Middle	2437	10.4	＞500kHz
High	2462	10.5	＞500kHz

4. Maximum Output Power test

4.1 Operating environment

Temperature:	22	℃
Relative Humidity:	60	%

4.2 Test setup & procedure

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to power meter via power sensor. Power was read directly and cable loss correction (1dB) 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).

4.3 Measured data of Maximum Output Power test results

Channel	Frequency (MHz)	C.B.L. (dB)	Reading (dBm)	Power Output		Limit (W)
				(dBm)	(mW)	
Lowest	2412	1	18.21	19.21	83.37	1
Middle	2437	1	17.75	18.75	74.99	1
Highest	2462	1	16.71	17.71	59.02	1

5. RF Antenna Conducted test

5.1 Operating environment

Temperature:	22	℃
Relative Humidity:	60	%

5.2 Test setup & procedure

Antenna spurious emission per FCC 15.247 (c) was measured from the EUT antenna port using a 50ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 300 kHz.
Harmonics and spurious noise must be at least 20dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The table below is the results from the highest emission for each channel within the authorized band. This table was used to determine the spurious limits for each channel. See RF Antenna Conducted plot as file name "RF Antenna Conducted plot.pdf"

5.3 Measured data of the highest RF Antenna Conducted test result

Channel	Frequency (MHz)	Emission level (dBm)	Limit (dBm)
Low	2400.00	-34.46	-18.84
Middle	696.78	-35.3	-19.44
High	722.04	-36.88	-20.63

Note: 1. Limit = peak power output (in 100kHz RBW) – 20dB
2. All the other emissions were very low the limit.

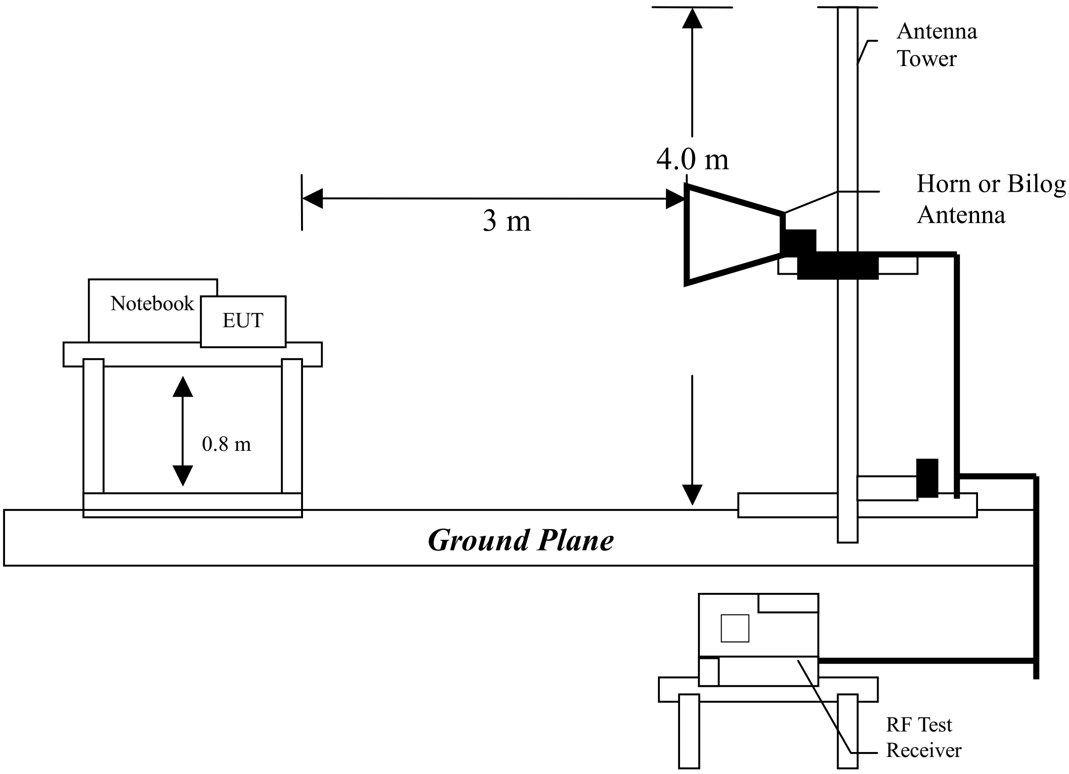
6. Radiated Emission test

6.1 Operating environment

Temperature:	25	℃
Relative Humidity:	62	%

6.2 Test setup & procedure

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



The signal is maximized through rotation and placement in the three orthogonal axes.
Radiated emission measurements were performed from 30MHz to 25GHz. Spectrum Analyzer Resolution Bandwidth is 100kHz or greater for frequencies 30MHz to 1GHz, 1MHz – for frequencies above 1GHz.
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.

6.3 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. In the General Radiated Emission Test, the uncertainty is within ±2.5dB

6.4 Radiated Emission test data

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

EUT : XI-305B
Test Mode : Transmit mode
Worst case Condition : Low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
99.70	QP	V	11.12	18.61	29.73	43.5	-13.77
195.20	QP	V	13.32	17.95	31.27	43.5	-12.23
260.60	QP	V	15.38	13.72	29.10	46	-16.90
398.00	QP	V	20.11	20.29	40.40	46	-5.60
585.60	QP	V	24.50	8.92	33.42	46	-12.58
911.80	QP	V	29.70	4.71	34.41	46	-11.59
195.20	QP	H	13.32	22.38	35.70	43.5	-7.80
227.60	QP	H	14.09	19.69	33.78	46	-12.22
260.60	QP	H	15.38	24.89	40.27	46	-5.73
398.00	QP	H	20.11	21.77	41.88	46	-4.12
585.60	QP	H	24.50	8.62	33.12	46	-12.88
651.40	QP	H	24.80	12.71	37.51	46	-8.49

Remark:
1.Corrected Level = Reading Level + Correction Factor
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

6.4.2 Measurement results: frequency above 1GHz

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : Low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2038.01	PK	V	0	31.99	24.48	56.47	74	-17.53
2038.01	AV	V	0	31.99	14.65	46.64	54	-7.36
4076	PK	V	28.02	38.94	42.23	53.15	74	-20.85
4076	AV	V	28.02	38.94	31.68	42.6	54	-11.4
6113.91	PK	V	28.02	41.72	39.73	53.43	74	-20.57
6113.91	AV	V	28.02	41.72	30.14	43.84	54	-10.16
8151	PK	V	28.02	45.75	31.58	49.31	74	-24.69
8151	AV	V	28.02	45.75	23.15	40.88	54	-13.12
10188.75	PK	V	28.02	47.21	-	-	74	-
10188.75	AV	V	28.02	47.21	-	-	54	-
4824.1	PK	V	28.02	38.7	40.88	51.56	74	-22.44
4824.1	AV	V	28.02	38.7	29.7	40.38	54	-13.62
7236.68	PK	V	28.02	43.86	40.58	56.42	74	-17.58
7236.68	AV	V	28.02	43.86	31.87	47.71	54	-6.29
9648	PK	V	28.02	46.9	-	-	74	-
9648	AV	V	28.02	46.9	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : Low channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2037.97	PK	H	0	31.99	25.43	57.42	74	-16.58
2037.97	AV	H	0	31.99	16.66	48.65	54	-5.35
4076.2	PK	H	28.02	38.94	41.25	52.17	74	-21.83
4076.2	AV	H	28.02	38.94	30.18	41.1	54	-12.9
6113.39	PK	H	28.02	41.72	40.19	53.89	74	-20.11
6113.39	AV	H	28.02	41.72	29.24	42.94	54	-11.06
8151.1	PK	H	28.02	45.75	30.58	48.31	74	-25.69
8151.1	AV	H	28.02	45.75	22.69	40.42	54	-13.58
10188.75	PK	H	28.02	47.21	-	-	74	-
10188.75	AV	H	28.02	47.21	-	-	54	-
4824.18	PK	H	28.02	38.7	39.45	50.13	74	-23.87
4824.18	AV	H	28.02	38.7	29.14	39.82	54	-14.18
7236.6	PK	H	28.02	43.86	40.15	55.99	74	-18.01
7236.6	AV	H	28.02	43.86	30.79	46.63	54	-7.37
9648	PK	H	28.02	46.9	-	-	74	-
9648	AV	H	28.02	46.9	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : Middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2063.15	PK	V	0	31.99	25.14	57.13	74	-16.87
2063.15	AV	V	0	31.99	15.65	47.64	54	-6.36
4126.2	PK	V	28.02	38.94	41.36	52.28	74	-21.72
4126.2	AV	V	28.02	38.94	32.25	43.17	54	-10.83
6189.11	PK	V	28.02	41.72	40.45	54.15	74	-19.85
6189.11	AV	V	28.02	41.72	29.82	43.52	54	-10.48
8252.35	PK	V	28.02	45.92	30.65	48.55	74	-25.45
8252.35	AV	V	28.02	45.92	22.54	40.44	54	-13.56
10315	PK	V	28.02	47.37	-	-	74	-
10315	AV	V	28.02	47.37	-	-	54	-
4874	PK	V	28.02	38.7	39.64	50.32	74	-23.68
4874	AV	V	28.02	38.7	30.11	40.79	54	-13.21
7311.65	PK	V	28.02	43.86	41.15	56.99	74	-17.01
7311.65	AV	V	28.02	43.86	31.58	47.42	54	-6.58
9748	PK	V	28.02	46.9	-	-	74	-
9748	AV	V	28.02	46.9	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : Middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2063	PK	H	0	31.99	25.19	57.18	74	-16.82
2063	AV	H	0	31.99	14.98	46.97	54	-7.03
4126.25	PK	H	28.02	38.94	39.58	50.5	74	-23.5
4126.25	AV	H	28.02	38.94	28.15	39.07	54	-14.93
6189.22	PK	H	28.02	41.72	40.11	53.81	74	-20.19
6189.22	AV	H	28.02	41.72	29.42	43.12	54	-10.88
8252	PK	H	28.02	45.92	30.98	48.88	74	-25.12
8252	AV	H	28.02	45.92	21.56	39.46	54	-14.54
10315	PK	H	28.02	47.37	-	-	74	-
10315	AV	H	28.02	47.37	-	-	54	-
4874.15	PK	H	28.02	38.7	39.87	50.55	74	-23.45
4874.15	AV	H	28.02	38.7	31.25	41.93	54	-12.07
7311.56	PK	H	28.02	43.86	41.15	56.99	74	-17.01
7311.56	AV	H	28.02	43.86	30.58	46.42	54	-7.58
9748	PK	H	28.02	46.9	-	-	74	-
9748	AV	H	28.02	46.9	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : High channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2087.96	PK	V	0	31.99	25.46	57.45	74	-16.55
2087.96	AV	V	0	31.99	13.89	45.88	54	-8.12
4175.96	PK	V	28.02	38.94	40.15	51.07	74	-22.93
4175.96	AV	V	28.02	38.94	29.91	40.83	54	-13.17
6264.12	PK	V	28.02	41.88	40.55	54.41	74	-19.59
6264.12	AV	V	28.02	41.88	30.39	44.25	54	-9.75
8352.65	PK	V	28.02	45.92	33.76	51.66	74	-22.34
8352.65	AV	V	28.02	45.92	24.15	42.05	54	-11.95
10440	PK	V	28.02	47.43	-	-	74	-
10440	AV	V	28.02	47.43	-	-	54	-
4924.88	PK	V	28.02	38.7	41.11	51.79	74	-22.21
4924.88	AV	V	28.02	38.7	30.98	41.66	54	-12.34
7386.15	PK	V	28.02	43.86	41.19	57.03	74	-16.97
7386.15	AV	V	28.02	43.86	30.25	46.09	54	-7.91
9848	PK	V	28.02	46.88	-	-	74	-
9848	AV	V	28.02	46.88	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

EUT : XI-305B
Test Mode : Transmit mode
Test Condition : High channel

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)
2088.11	PK	H	0	31.99	26.11	58.1	74	-15.9
2088.11	AV	H	0	31.99	15.36	47.35	54	-6.65
4176.12	PK	H	28.02	38.94	40.69	51.61	74	-22.39
4176.12	AV	H	28.02	38.94	30.02	40.94	54	-13.06
6263.95	PK	H	28.02	41.88	39.55	53.41	74	-20.59
6263.95	AV	H	28.02	41.88	30.98	44.84	54	-9.16
8352.15	PK	H	28.02	45.92	31.54	49.44	74	-24.56
8352.15	AV	H	28.02	45.92	20.97	38.87	54	-15.13
10440	PK	H	28.02	47.43	-	-	74	-
10440	AV	H	28.02	47.43	-	-	54	-
4924.35	PK	H	28.02	38.7	40.78	51.46	74	-22.54
4924.35	AV	H	28.02	38.7	31.06	41.74	54	-12.26
7386.45	PK	H	28.02	43.86	42.88	58.72	74	-15.28
7386.45	AV	H	28.02	43.86	31.74	47.58	54	-6.42
9848	PK	H	28.02	46.88	-	-	74	-
9848	AV	H	28.02	46.88	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor－Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor.

7. Power Spectrum Density test

7.1 Operating environment

Temperature: 22 ℃
Relative Humidity: 60 %

7.2 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. The test was performed at 3 channels (lowest, middle and highest channel). The Power Spectral Density measured result is in the following table. See Power Spectrum Density plot as file name "Power Spectrum Density plot.pdf"

7.3 Measured data of Power Spectrum Density test results

Channel	Frequency (MHz)	Measured level (dBm)	Limit (dBm)
Low	2411.32	-9.05	+8
Middle	2436.32	-9.42	+8
High	2461.32	-10.50	+8

8. 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.

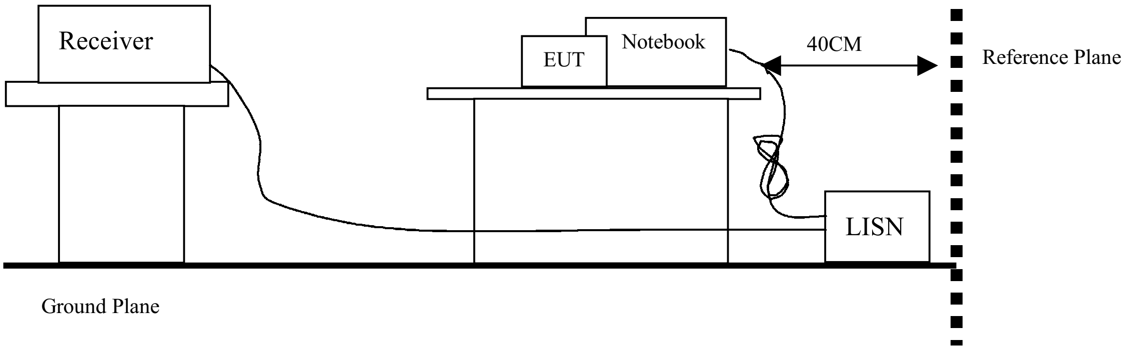
See band-edge plot as file name “Band-edge plot.pdf”.

9. Power Line Conducted Emission test §FCC 15.207

9.1 Operating environment

Temperature: 22 ℃
Relative Humidity: 62 %

9.2 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 bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

See Power Line Conducted Emission plot as file name “Power Line Conducted Emission plot.pdf”.

Emission Limit

FCC Part 15 Paragraph 15.207		
Freq. (MHz)	Maximum RF Line Voltage	
	uV	dBuV
0.45 - 30	250	48.0

9.3 Power Line Conducted Emission test data

EUT : XI-305B
Test Mode : Transmitted Mode
Test Condition : Low channel

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.53000	29.0	48.00	-19.00
LINE	0.61800	30.3	48.00	-17.70
LINE	3.25000	32.2	48.00	-15.80
LINE	3.33800	33.8	48.00	-14.20
LINE	3.42600	31.8	48.00	-16.20
LINE	5.27400	33.7	48.00	-14.30
NEUTRAL	2.89600	30.6	48.00	-17.40
NEUTRAL	2.98600	32.1	48.00	-15.90
NEUTRAL	3.25000	32.8	48.00	-15.20
NEUTRAL	3.33800	34.5	48.00	-13.50
NEUTRAL	3.42600	32.5	48.00	-15.50
NEUTRAL	3.60200	32.7	48.00	-15.30

Remark:
1. The reading value including cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ±2dB

EUT : XI-305B
Test Mode : Transmitted Mode
Test Condition : Middle channel

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.53000	29.5	48.00	-18.50
LINE	0.61800	30.3	48.00	-17.70
LINE	3.25000	31.8	48.00	-16.20
LINE	3.33800	33.3	48.00	-14.70
LINE	3.42600	31.4	48.00	-16.60
LINE	5.27400	33.8	48.00	-14.20
NEUTRAL	2.98600	32.3	48.00	-15.70
NEUTRAL	3.07400	33.5	48.00	-14.50
NEUTRAL	3.25000	33.0	48.00	-15.00
NEUTRAL	3.33800	34.6	48.00	-13.40
NEUTRAL	3.42600	32.6	48.00	-15.40
NEUTRAL	3.51400	32.7	48.00	-15.30

Remark:
1. 1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ±2dB

EUT : XI-305B
Test Mode : Transmitted Mode
Test Condition : High channel

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.53000	29.5	48.00	-18.50
LINE	0.61800	30.4	48.00	-17.60
LINE	3.42600	30.3	48.00	-17.70
LINE	5.45000	33.9	48.00	-14.10
LINE	8.44200	32.8	48.00	-15.20
LINE	8.70600	32.2	48.00	-15.80
NEUTRAL	2.98600	32.5	48.00	-15.50
NEUTRAL	3.07400	33.6	48.00	-14.40
NEUTRAL	3.25000	33.1	48.00	-14.90
NEUTRAL	3.33800	34.7	48.00	-13.30
NEUTRAL	3.42600	32.6	48.00	-15.40
NEUTRAL	3.51400	32.7	48.00	-15.30

Remark:
1. 1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the Conducted Emission Test, the uncertainty is within ±2dB