EMC
TEST REPORT

Report No. : EME-011099
Model No. : XI-626
Issued Date : Jan. 09, 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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Test Engineer

Elton Chen

Approved By

J. T. CHEN
MANAGER (EMC LABORATORY)
ETL SEMKO DIVISION

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1. General information

1.1 Identification of the EUT

Applicant	: Z-COM, Inc.
Product	: 2.4GHz PCI Card
Model No.	: XI-626
FCC ID	: M4Y-06260
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	: From PCI Slot
Power Cord	: N/A
Sample Received	: Dec. 27, 2001
Test Date(s)	: Dec. 18, 2001 to Dec. 27, 2001

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The EUT is an IEEE802.11/802.11b-compliant PCI Type DSSS wireless LAN adapter. It fully supports wireless networking under Windows XP/2000/98/ME; it can be operated in Infrastructure and Ad-Hoc network configurations. *Infrastructure mode* allows EUT users to join an Extended Basic Service Set (i.e., connect to access point). *Ad-Hoc mode* allows EUT users to join a Basic Service Set (i.e., peer-to-peer mode, without access point).

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 SMA reverse connector, which DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain	: 0 dBi
Antenna Type	: Dipole

1.4 Peripherals equipment

1. PC
   Product No. : D6923A
   Serial No. : TW84200238
   Manufacturer : HP

2. Key Board
   Product No. : 37L2548
   Serial No. : 0095996
   Manufacturer : IBM

3. Monitor
   Product No. : 6331-0LN
   Serial No. : 23-NW855
   Manufacturer : IBM

4. Mouse
   Product No. : 10L6144
   Serial No. : 23-071328
   Manufacturer : IBM

5. Printer
   Product No. : C2642A
   Serial No. : TH86K1N2ZB
   Manufacturer : HP

6. Modem
   Product No. : V1456VQE
   Serial No. : 700V23100066865
   Manufacturer : Aski

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.

2.2 Operation mode

1. The power of EUT was supplied from PCI Slot.
2. Power on the PC then run the test program “RF.EXE”.
3. The EUT transmitted continuously during all the tests.

2.3 Modifications required for compliance

No modification were installed during test performance to bring the product into compliance (Please note that this list does not include changes made specifically by Z-COM, Inc. Prior to compliance testing.)

2.4 Test equipment

Equipment	Brand	Frequency range	Model No.	Series No.	Cal.Date
EMI Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	825788/014	01/05/29
Pulse Limiter	Rohde & Schwarz	9kHz~30MHz	ESH3-Z2	848.766/052	N/A
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	01/07/9
Horn Antenna	EMCO	1GHz~18GHz	3115	9906-5822	01/09/10
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	159	01/06/21
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	3111	01/06/21
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	01/06/12
Power Sensor	Boonton	30MHz~8GHz	51011-EMC	30395	01/06/12
Power Sensor	Boonton	30MHz~8GHz	51011-EMC	30417	01/06/12

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

3. Modulated 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 3MHz, 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 6dB bandwidth plot as file name "6dB bandwidth plot.pdf"

3.3 Measured data of modulated bandwidth test results

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
Low	2413.2	11.6	＞500kHz
Middle	2438.36	10.8	＞500kHz
High	2463.44	10.56	＞500kHz

4. Peak power output 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 (0.5 dB) 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 peak power output test results

Channel	Frequency (MHz)	C.B.L. (dB)	Reading (dBm)	Power Output		Limit (W)
				(dBm)	(mW)	
Low	2412	0.5	16.37	16.87	47.64	1
Middle	2437	0.5	16.70	17.20	52.48	1
High	2462	0.5	17.10	17.60	57.54	1

5. Antenna conducted spurious emission 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 Conducted Emission plot as file name "RF Conducted Emission plot.pdf".

5.3 Measured data of the highest conducted spurious emission test result

Channel	Frequency (MHz)	Emission level (dBm)	Limit
Low	672.2	-40.10	-18.14
Middle	701.84	-40.82	-17.96
High	721.6	-41.52	-17.82

Note: 1. Limit = peak power output – 20dB
2. All the other emissions were very low the limit.

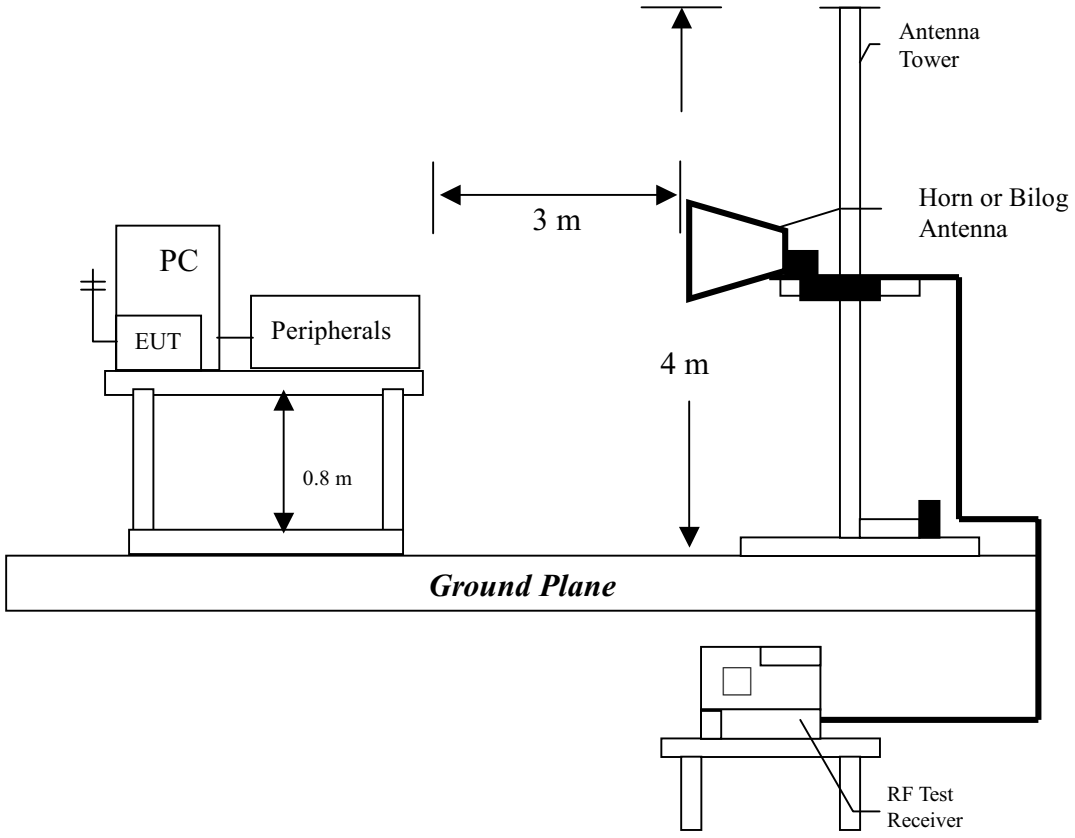
6. Radiated spurious emission test

6.1 Operating environment

Temperature:	22	℃
Relative Humidity:	60	%

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. The EUT and its peripherals are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4/1992 on radiated measurement. Radiated emission measurement were performed from 30MHz to 40GHz or to the tenth harmonic of the highest fundamental frequency, which is lower.
The bandwidth below 1GHz setting on the field strength meter (ESMI) is 120kHz and above 1GHz is 1MHz.

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 spurious emission test data

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

EUT : XI-626
Test Mode : Transmit mode
Worst case 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)
99.7	QP	V	0	11.12	14.98	26.10	43.5	-17.4
107.8	QP	V	0	10.63	9.47	20.10	43.5	-23.4
114.8	QP	V	0	10.63	22.77	33.40	43.5	-10.1
703.2	QP	V	0	25.42	11.58	37.00	46	-9.0
767.6	QP	V	0	27.08	4.62	31.70	46	-14.3
815.2	QP	V	0	27.80	5.10	32.90	46	-13.1
32.2	QP	H	0	16.08	3.42	19.50	40	-20.5
100.2	QP	H	0	11.09	9.81	20.90	43.5	-22.6
135.3	QP	H	0	10.10	7.80	17.90	43.5	-25.6
186.1	QP	H	0	12.39	6.21	18.60	43.5	-24.9
191.5	QP	H	0	13.01	5.89	18.90	43.5	-24.6
299.5	QP	H	0	16.31	10.29	26.60	46	-19.4

Remark:
1.Corrected Level = Reading Level + Correction Factor＋Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don’t show on the above table were undetectable.
5. “-“ means the value was undetectable.

6.4.2 Measurement results: frequency above 1GHz

Worst case radiated emission
at Low Channel, 2037.71 MHz, margin: -3.66 dB

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

EUT : XI-626
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)
4823.39	PK	V	0	40.4	18.33	58.73	74	-15.27
4823.39	AV	V	0	40.4	8.23	48.63	54	-5.37
7235.18	PK	V	0	45.16	13.11	58.27	74	-15.73
7235.18	AV	V	0	45.16	2.03	47.19	54	-6.81
9648	PK	V	0	47	-	-	74	-
9648	AV	V	0	47	-	-	54	-
2037.71	PK	V	0	31.99	27.56	59.55	74	-14.45
2037.71	AV	V	0	31.99	18.35	50.34	54	-3.66
4075.64	PK	V	0	38.94	21.45	60.39	74	-13.61
4075.64	AV	V	0	38.94	10.36	49.3	54	-4.7
6113.25	PK	V	0	41.72	-	-	74	-
6113.25	AV	V	0	41.72	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor＋Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don’t show on the above table were undetectable.
5. “-“ means the value was undetectable.

EUT : XI-626
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)
4824.66	PK	H	0	40.4	17.48	57.88	74	-16.12
4824.66	AV	H	0	40.4	8.22	48.62	54	-5.38
7236.14	PK	H	0	45.16	10.32	55.48	74	-18.52
7236.14	AV	H	0	45.16	1.35	46.51	54	-7.49
9648	PK	H	0	47	-	-	74	-
9648	AV	H	0	47	-	-	54	-
2037.65	PK	H	0	31.99	26.58	58.57	74	-15.43
2037.65	AV	H	0	31.99	15.39	47.38	54	-6.62
4075.5	PK	H	0	38.94	20.66	59.6	74	-14.4
4075.5	AV	H	0	38.94	9.65	48.59	54	-5.41
6113.25	PK	H	0	41.72	-	-	74	-
6113.25	AV	H	0	41.72	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor＋Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don’t show on the above table were undetectable.
5. “-“ means the value was undetectable.

EUT : XI-626
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)
4873.65	PK	V	0	40.4	17.25	57.65	74	-16.35
4873.65	AV	V	0	40.4	8.25	48.65	54	-5.35
7311.85	PK	V	0	45.19	12.65	57.84	74	-16.16
7311.85	AV	V	0	45.19	1.05	46.24	54	-7.76
9748	PK	V	0	46.98	-	-	74	-
9748	AV	V	0	46.98	-	-	54	-
2062.78	PK	V	0	31.99	26.36	58.35	74	-15.65
2062.78	AV	V	0	31.99	17.98	49.97	54	-4.03
4125.55	PK	V	0	39.1	20.31	59.41	74	-14.59
4125.55	AV	V	0	39.1	11.19	50.29	54	-3.71
6188.25	PK	V	0	41.88	-	-	74	-
6188.25	AV	V	0	41.88	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor + Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don't show on the above table were undetectable.
5. "-" means the value was undetectable.

EUT : XI-626
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)
4873.55	PK	H	0	40.4	16.98	57.38	74	-16.62
4873.55	AV	H	0	40.4	7.25	47.65	54	-6.35
7311.99	PK	H	0	45.19	10.11	55.3	74	-18.7
7311.99	AV	H	0	45.19	1.58	46.77	54	-7.23
9748	PK	H	0	46.98	-	-	74	-
9748	AV	H	0	46.98	-	-	54	-
2062.89	PK	H	0	31.99	25.35	57.34	74	-16.66
2062.89	AV	H	0	31.99	16.58	48.57	54	-5.43
4125.85	PK	H	0	39.1	20.01	59.11	74	-14.89
4125.85	AV	H	0	39.1	9.88	48.98	54	-5.02
6188.25	PK	H	0	41.88	-	-	74	-
6188.25	AV	H	0	41.88	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor + Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don't show on the above table were undetectable.
5. "-" means the value was undetectable.

EUT : XI-626
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)
4925.15	PK	V	0	40.4	18.01	58.41	74	-15.59
4925.15	AV	V	0	40.4	9.23	49.63	54	-4.37
7386.5	PK	V	0	45.19	11.33	56.52	74	-17.48
7386.5	AV	V	0	45.19	0.88	46.07	54	-7.93
9848	PK	V	0	46.98	-	-	74	-
9848	AV	V	0	46.98	-	-	54	-
2087.76	PK	V	0	31.99	25.61	57.6	74	-16.4
2087.76	AV	V	0	31.99	14.32	46.31	54	-7.69
4175.51	PK	V	0	39.1	19.85	58.95	74	-15.05
4175.51	AV	V	0	39.1	10.11	49.21	54	-4.79
6263.25	PK	V	0	42.18	-	-	74	-
6263.25	AV	V	0	42.18	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor＋Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don’t show on the above table were undetectable.
5. “-“ means the value was undetectable.

EUT : XI-626
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)
4925.11	PK	H	0	40.4	16.98	57.38	74	-16.62
4925.11	AV	H	0	40.4	7.25	47.65	54	-6.35
7386.85	PK	H	0	45.19	10.11	55.3	74	-18.7
7386.85	AV	H	0	45.19	1.58	46.77	54	-7.23
9848	PK	H	0	46.98	-	-	74	-
9848	AV	H	0	46.98	-	-	54	-
2087.75	PK	H	0	31.99	25.66	57.65	74	-16.35
2087.75	AV	H	0	31.99	15.32	47.31	54	-6.69
4175.45	PK	H	0	39.1	20.98	60.08	74	-13.92
4175.45	AV	H	0	39.1	10.78	49.88	54	-4.12
6263.25	PK	H	0	42.18	-	-	74	-
6263.25	AV	H	0	42.18	-	-	54	-

Remark:
1.Corrected Level = Reading Level + Correction Factor＋Preamp
2.Correction Factor = Antenna Factor + Cable Loss
3. All Readings below 1GHz are Peak, above are average value
4. All the Harmonics don’t show on the above table were undetectable.
5. “-“ means the value was undetectable.

7. Power spectral density test

7.1 Operating environment

Temperature: 22 ℃
Relative Humidity: 60 %

7.2 Test setup & procedure

The power spectral 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 30kHz, 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 Peak power output plot as file name “Power Spectral Density plot.pdf”.

7.3 Measured data of power spectral density test results

Channel	Frequency (MHz)	Measured level (dBm)	Limit (dBm)
Low	2412.34	-11.29	+8
Middle	2437.34	-11.19	+8
High	2462.34	-10.98	+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.

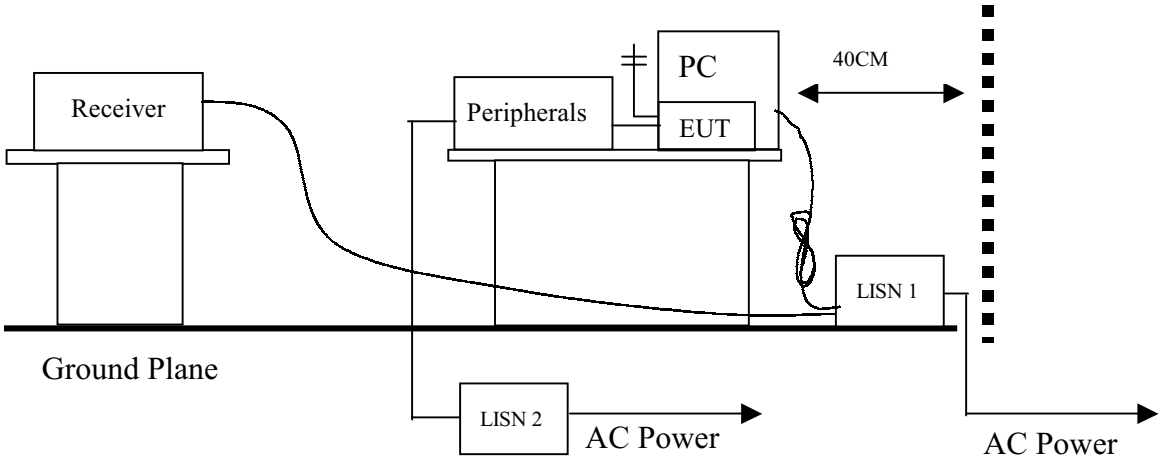
See band-edge plot as file name “band-edge plot.pdf”.

9. AC Line conducted emission §FCC 15.207

9.1 Operating environment

Temperature: 22 ℃
Relative Humidity: 60 %

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 AC line conduction plot as file name “AC line conduction 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 Conducted emission data

Worst case conducted emission
at Low Channel, Neutral 0.946MHz ,margin:-8.4 dB

EUT : XI-626
Test Mode : Low channel
Worst Case Condition : Transmitted Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.474	39.5	48.00	-8.50
LINE	0.554	38.3	48.00	-9.70
LINE	0.786	37.3	48.00	-10.70
LINE	0.866	38.5	48.00	-9.50
LINE	0.946	39.3	48.00	-8.70
LINE	1.026	39.3	48.00	-8.70
LINE	17.362	28.8	48.00	-19.20
NEUTRAL	0.474	39.2	48.00	-8.80
NEUTRAL	0.554	37.8	48.00	-10.20
NEUTRAL	0.786	38.6	48.00	-9.40
NEUTRAL	0.866	39.1	48.00	-8.90
NEUTRAL	0.946	39.6	48.00	-8.40
NEUTRAL	1.026	39	48.00	-9.00

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
3. The average measurement was not performed when the peak measured data under the limit of average detection.

EUT : XI-626
Test Mode : Middle channel
Worst Case Condition : Transmitted Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.474	39.6	48.00	-8.40
LINE	0.554	38.3	48.00	-9.70
LINE	0.786	37.5	48.00	-10.50
LINE	0.866	38.6	48.00	-9.40
LINE	0.946	39.4	48.00	-8.60
LINE	1.026	39.3	48.00	-8.70
LINE	17.106	31.3	48.00	-16.70
NEUTRAL	0.474	39.3	48.00	-8.70
NEUTRAL	0.554	38.4	48.00	-9.60
NEUTRAL	0.786	37.5	48.00	-10.50
NEUTRAL	0.866	38.3	48.00	-9.70
NEUTRAL	0.946	39.3	48.00	-8.70
NEUTRAL	1.026	38.9	48.00	-9.10
NEUTRAL	17.258	31.3	48.00	-16.70

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
3. The average measurement was not performed when the peak measured data under the limit of average detection.

EUT : XI-626
Test Mode : High channel
Worst Case Condition : Transmitted Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.474	39.6	48.00	-8.40
LINE	0.554	38.5	48.00	-9.50
LINE	0.786	36.7	48.00	-11.30
LINE	0.866	38.2	48.00	-9.80
LINE	0.946	39.2	48.00	-8.80
LINE	1.026	39.2	48.00	-8.80
LINE	17.01	32.4	48.00	-15.60
NEUTRAL	0.474	39.3	48.00	-8.70
NEUTRAL	0.554	38.4	48.00	-9.60
NEUTRAL	0.786	37.1	48.00	-10.90
NEUTRAL	0.866	38.1	48.00	-9.90
NEUTRAL	0.946	39.2	48.00	-8.80
NEUTRAL	1.026	38.9	48.00	-9.10
NEUTRAL	17.074	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
3. The average measurement was not performed when the peak measured data under the limit of average detection.