



EMC

TEST REPORT

Report No. : EME-020264
Model No. : MI-2410IRN(TX)
Issued Date : Mar. 25, 2002

Applicant : Million Increase Telecom International Co., Ltd.
11-2FL, No. 147, Yang-Ho RD, Sec.2, Yang-Ho City,
Taipei, 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.

This test report consists of 23 pages in total. It may be duplicated completely for legal use with the allowance of the applicant. It shall not be reproduced except in full, without the written approval of ITS Laboratory. The test result in this report only applies to the tested sample.

Tested By

Kaysi Chen

Approved By

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



Reviewed By

Elton Chen

Table of Contents

Summary of Tests	3
1. General information	4
1.1 Identification of the EUT	4
1.2 Additional information about the EUT	4
1.3 Antenna description	5
1.4 Peripherals equipment.....	5
2. Test specifications	6
2.1 Test standard	6
2.2 Operation mode.....	6
2.4 Test equipment	7
3. Radiated emission test FCC 15.249 (C).....	8
3.1 Operating environment	8
3.2 Test setup & procedure	8
3.3 Emission limit	9
3.3.1 Fundamental and harmonics emission limits.....	9
3.3.2 General radiated emission limits.....	9
3.4 Radiated emission test data FCC 15.249	10
3.4.1 Fundamental & harmonics radiated emission data	10
4. Conducted emission test FCC 15.207.....	19
4.1 Operating environment	19
4.2 Test setup & procedure	19
4.3 Emission limit	19
4.4 Conducted emission data FCC 15.207.....	20
5. Radiated emission on the band edge FCC 15.249(C).....	23



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 3 of 23

Summary of Tests

Model: MI-2410IRN(TX)
FCC ID: QAAMI-2410TX

Test	Reference	Results
Conducted Emission of AC Power	15.207	Complies
Radiated Emission test	15.249(c), 15.209	Complies



1. General information

1.1 Identification of the EUT

Manufacturer	: Million Increase Telecom International Co., Ltd.
Product	: Frogfish
Model No.	: MI-2410IRN(TX)
FCC ID.	: QAAMI-2410TX
Frequency Range	: 2400MHz to 2483.5MHz
Channel Number	: 4 channels
Frequency of Each Channel	: 2414MHz, 2432MHz, 2450MHz, 2468MHz
Type of Modulation	: FM
Power Supply	: 120Vac, 60Hz with adapter (AD-0930M)
Power Cord	: N/A
Sample Received	: Mar. 18, 2002
Test Date(s)	: Mar. 19, 2002 to Mar. 22, 2002

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The main function of MI-2410IRN Video Sender is to send the video and audio signals to receiver unit by 2.4GHz RF signal with FM modulation. The receiver unit will pick up the 2.4GHz RF signal and do the FM demodulation, then put the video and audio signals to TV, or other AV device.

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 : 2dBi max

Antenna Type : PCB dipole

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.	FCC ID
DVD	Royal Tek	RDP-702	P13C193100769	FCC DoC Approved



2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

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 more than 20dB under limit level as specified in Section 15.33(a), thus we evaluate the EUT pass the specified test.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

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

2.2 Operation mode

Get the EUT connected to a DVD player with a 1.2 meter length RCA cable. Then power on the EUT and DVD player.

The EUT transmitted continuously during all the tests.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 7 of 23

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
Microwave Amplifier	Agilent	2GHz~26.5GHz	8348A	3111A00567	Dec. 20, 2002

Note:

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

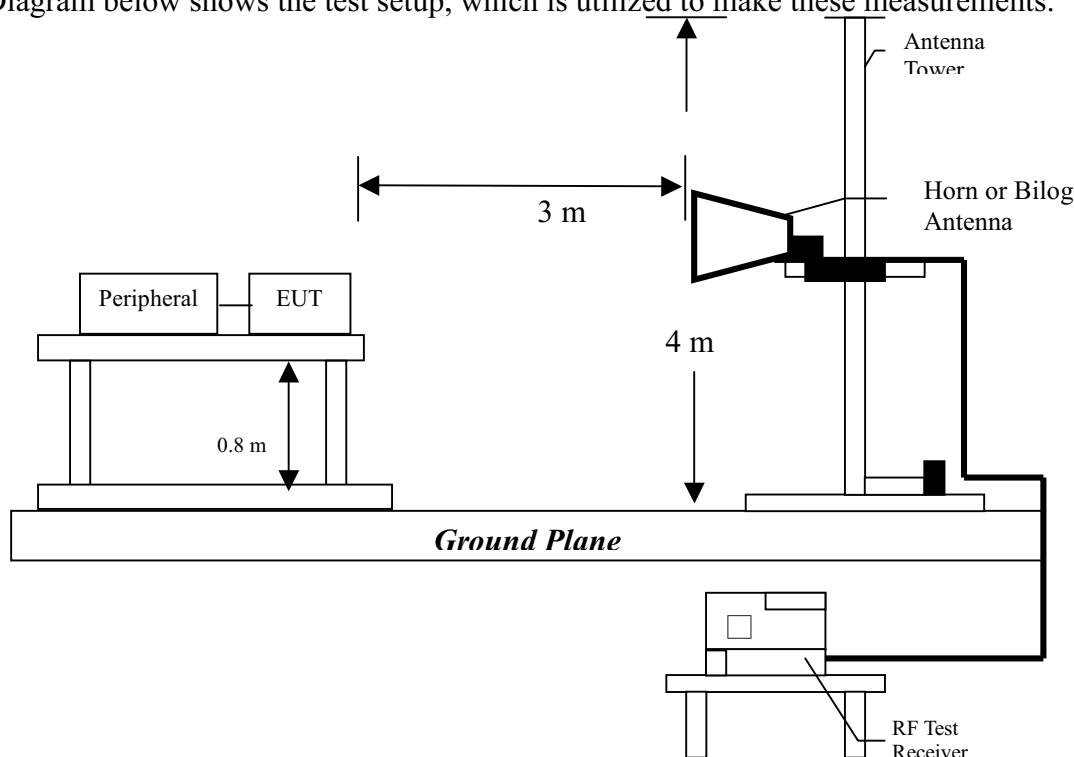
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature: 22 °C
Relative Humidity: 51 %

3.2 Test setup & procedure

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



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.



3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
2400-2483.5	50	94	500	54

3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	15.209 Limits (dB μ V/m@3m)	General Radiated Limits (dB μ V/m@3m)
30-88	40	40
88-216	43.5	43.5
216-960	46	46
Above 960	54	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 ± 2.5 dB



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 10 of 23

3.4 Radiated emission test data FCC 15.249

3.4.1 Fundamental & harmonics radiated emission data

EUT : MI-2410IRN(TX)
Test Mode : low channel
Test Condition : Transmitter Mode

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)
2414.65	PK	V	0	32.3	61.98	94.28	114	-19.72
2414.65	AV	V	0	32.3	51.57	83.87	94	-10.13
4828.25	PK	V	28.02	38.7	50.64	61.32	74	-12.68
4828.25	AV	V	28.02	38.7	39.48	50.16	54	-3.84
7242.33	PK	V	28.02	43.86	44.38	60.22	74	-13.78
7242.33	AV	V	28.02	43.86	34.06	49.9	54	-4.1
9656.05	PK	V	28.02	46.9	41.25	60.13	74	-13.87
9656.05	AV	V	28.02	46.9	31.12	50	54	-4
1934.25	PK	V	0	29.03	29.56	58.59	74	-15.41
1934.25	AV	V	0	29.03	18.45	47.48	54	-6.52
3869.01	PK	V	28.02	37.25	39.12	48.35	74	-25.65
3869.01	AV	V	28.02	37.25	28.79	38.02	54	-15.98

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 11 of 23

EUT : MI-2410IRN(TX)
Test Mode : low channel
Test Condition : Transmitter Mode

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)
2414.01	PK	H	0	32.3	55.77	88.07	114	-25.93
2414.01	AV	H	0	32.3	45.1	77.4	94	-16.6
4828.11	PK	H	28.02	38.7	38.19	48.87	74	-25.13
4828.11	AV	H	28.02	38.7	28.44	39.12	54	-14.88
7242.56	PK	H	28.02	43.86	44.52	60.36	74	-13.64
7242.56	AV	H	28.02	43.86	33.45	49.29	54	-4.71
9656.04	PK	H	28.02	46.9	40.09	58.97	74	-15.03
9656.04	AV	H	28.02	46.9	31.19	50.07	54	-3.93
1934.51	PK	H	0	29.03	30.64	59.67	74	-14.33
1934.51	AV	H	0	29.03	20.58	49.61	54	-4.39
3868.85	PK	H	28.02	37.25	38.11	47.34	74	-26.66
3868.85	AV	H	28.02	37.25	29.01	38.24	54	-15.76

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 12 of 23

EUT : MI-2410IRN(TX)
Test Mode : middle channel
Test Condition : Transmitter Mode

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)
2432.11	PK	V	0	32.3	59.15	91.45	114	-22.55
2432.11	AV	V	0	32.3	50.73	83.03	94	-10.97
4864.56	PK	V	28.02	38.7	46.55	57.23	74	-16.77
4864.56	AV	V	28.02	38.7	35.92	46.6	54	-7.4
7296.1	PK	V	28.02	43.86	44.05	59.89	74	-14.11
7296.1	AV	V	28.02	43.86	34.41	50.25	54	-3.75
9628.05	PK	V	28.02	46.9	41.98	60.86	74	-13.14
9628.05	AV	V	28.02	46.9	30.68	49.56	54	-4.44
1952.15	PK	V	0	29.03	30.15	59.18	74	-14.82
1952.15	AV	V	0	29.03	19.87	48.9	54	-5.1
3905.44	PK	V	28.02	37.25	40.54	49.77	74	-24.23
3945.44	AV	V	28.02	37.25	29.77	39	54	-15

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 13 of 23

EUT : MI-2410IRN(TX)
Test Mode : middle channel
Test Condition : Transmitter Mode

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)
2432.15	PK	H	0	32.3	59.33	91.63	114	-22.37
2432.15	AV	H	0	32.3	47.39	79.69	94	-14.31
4864.32	PK	H	28.02	38.7	50.16	60.84	74	-13.16
4864.32	AV	H	28.02	38.7	39.33	50.01	54	-3.99
7296	PK	H	28.02	43.86	42.89	58.73	74	-15.27
7296	AV	H	28.02	43.86	33.6	49.44	54	-4.56
9628.45	PK	H	28.02	46.9	41.23	60.11	74	-13.89
9628.45	AV	H	28.02	46.9	30.71	49.59	54	-4.41
1952.03	PK	H	0	29.03	29.65	58.68	74	-15.32
1952.03	AV	H	0	29.03	19.01	48.04	54	-5.96
3945.21	PK	H	28.02	37.25	39.55	48.78	74	-25.22
3925.21	AV	H	28.02	37.25	31.15	40.38	54	-13.62

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 14 of 23

EUT : MI-2410IRN(TX)
Test Mode : high channel
Test Condition : Transmitter Mode

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)
2468.44	PK	V	0	32.3	60.45	92.75	114	-21.25
2468.44	AV	V	0	32.3	49.86	82.16	94	-11.84
4936.01	PK	V	28.02	38.7	43.66	54.34	74	-19.66
4936.01	AV	V	28.02	38.7	32.39	43.07	54	-10.93
7404.55	PK	V	28.02	43.89	41.98	57.85	74	-16.15
7404.55	AV	V	28.02	43.89	32.49	48.36	54	-5.64
9872.36	PK	V	28.02	46.88	42.58	61.44	74	-12.56
9872.36	AV	V	28.02	46.88	31.27	50.13	54	-3.87
1988.51	PK	V	0	29.03	31.01	60.04	74	-13.96
1988.51	AV	V	0	29.03	20.52	49.55	54	-4.45
3977.15	PK	V	28.02	37.25	39.18	48.41	74	-25.59
3977.15	AV	V	28.02	37.25	28.66	37.89	54	-16.11

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 15 of 23

EUT : MI-2410IRN(TX)
Test Mode : high channel
Test Condition : Transmitter Mode

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)
2468.65	PK	H	0	32.3	58.99	91.29	114	-22.71
2468.65	AV	H	0	32.3	47.5	79.8	94	-14.2
4936	PK	H	28.02	38.7	49.64	60.32	74	-13.68
4936	AV	H	28.02	38.7	39.61	50.29	54	-3.71
7403.95	PK	H	28.02	43.89	41.05	56.92	74	-17.08
7403.95	AV	H	28.02	43.89	30.62	46.49	54	-7.51
9871.85	PK	H	28.02	46.88	41.71	60.57	74	-13.43
9871.85	AV	H	28.02	46.88	31.48	50.34	54	-3.66
1987.96	PK	H	0	29.03	30.96	59.99	74	-14.01
1987.96	AV	H	0	29.03	19.45	48.48	54	-5.52
3977.23	PK	H	28.02	37.25	40.11	49.34	74	-24.66
3977.23	AV	H	28.02	37.25	29.51	38.74	54	-15.26

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.



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 16 of 23

3.5 General radiated emission data FCC 15.209

3.5.1 General Radiated Emission Data

EUT : MI-2410IRN(TX)

Test Mode : low channel

Test Condition : Transmitter Mode

Polar (circle)	Freq. (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
VER.	60.80000	9.92	1.85	4.53	16.30	40	-23.70
VER.	84.00000	6.47	2.18	4.75	13.40	40	-26.60
VER.	95.90000	8.67	2.45	6.78	17.90	43.5	-25.60
VER.	99.70000	8.67	2.45	4.78	15.90	43.5	-27.60
VER.	107.80000	7.75	2.88	8.77	19.40	43.5	-24.10
VER.	115.90000	8.25	2.88	5.27	16.40	43.5	-27.10
HOR.	37.00000	15.20	1.77	-2.17	14.80	40	-25.20
HOR.	61.90000	9.65	1.87	3.38	14.90	40	-25.10
HOR.	73.20000	8.69	1.95	2.86	13.50	40	-26.50
HOR.	374.20000	15.78	4.33	0.49	20.60	46	-25.40
HOR.	433.00000	16.32	4.75	2.53	23.60	46	-22.40
HOR.	759.20000	19.74	6.30	1.56	27.60	46	-18.40

Remark:

1. Emission Level = Reading Level + Antenna Factor + Cable Loss
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the General Radiated Emission Test, the uncertainty is within ± 2.5 dB



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 17 of 23

EUT : MI-2410IRN(TX)
Test Mode : middle channel
Test Condition : Transmitter Mode

Polar (circle)	Freq. (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
VER.	90.10000	6.83	2.30	8.97	18.10	43.5	-25.40
VER.	120.30000	7.73	2.88	6.89	17.50	43.5	-26.00
VER.	155.60000	8.82	3.03	11.75	23.60	43.5	-19.90
VER.	175.10000	8.47	2.93	6.00	17.40	43.5	-26.10
VER.	230.50000	11.42	3.50	3.28	18.20	46	-27.80
VER.	745.20000	19.74	6.30	0.46	26.50	46	-19.50
HOR.	110.35000	7.75	2.88	5.77	16.40	43.5	-27.10
HOR.	153.64000	9.10	2.80	7.00	18.90	43.5	-24.60
HOR.	192.45000	9.88	3.13	4.59	17.60	43.5	-25.90
HOR.	230.11000	11.42	3.50	4.58	19.50	46	-26.50
HOR.	433.00000	16.32	4.75	0.83	21.90	46	-24.10
HOR.	570.20000	18.69	5.48	-0.37	23.80	46	-22.20

Remark:

1. Emission Level = Reading Level + Antenna Factor + Cable Loss
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the General Radiated Emission Test, the uncertainty is within ± 2.5 dB



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 18 of 23

EUT : MI-2410IRN(TX)
Test Mode : high channel
Test Condition : Transmitter Mode

Polar (circle)	Freq. (MHz)	Antenna Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
VER.	95.90000	8.67	2.45	7.08	18.20	43.5	-25.30
VER.	107.80000	7.75	2.88	8.77	19.40	43.5	-24.10
VER.	154.20000	9.10	2.80	10.60	22.50	43.5	-21.00
VER.	174.70000	8.84	3.03	5.53	17.40	43.5	-26.10
VER.	231.40000	11.42	3.50	4.18	19.10	46	-26.90
VER.	745.20000	19.74	6.30	0.96	27.00	46	-19.00
HOR.	154.20000	9.10	2.80	8.40	20.30	43.5	-23.20
HOR.	190.80000	9.88	3.13	3.49	16.50	43.5	-27.00
HOR.	231.40000	11.42	3.50	4.58	19.50	46	-26.50
HOR.	433.00000	16.32	4.75	0.93	22.00	46	-24.00
HOR.	570.20000	18.69	5.48	-0.17	24.00	46	-22.00
HOR.	770.40000	20.78	6.30	0.02	27.10	46	-18.90

Remark:

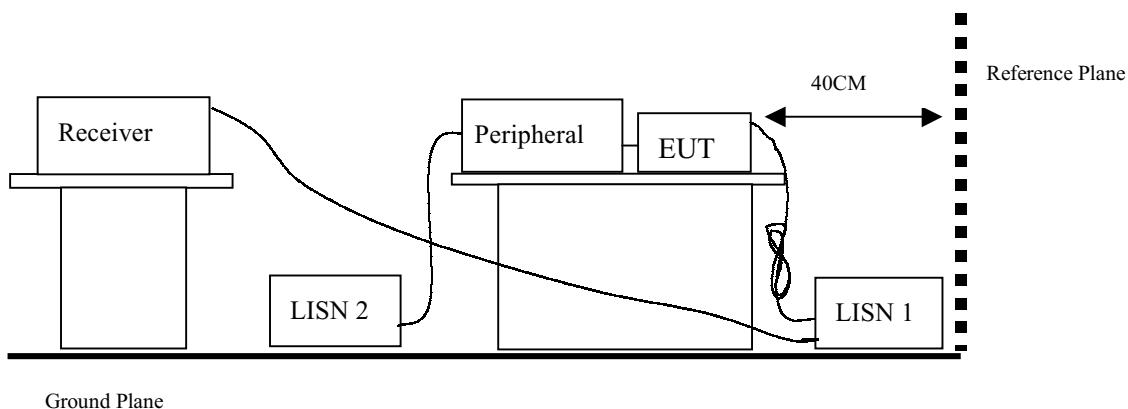
1. Emission Level = Reading Level + Antenna Factor + Cable Loss
2. Uncertainty was calculated in accordance with NAMAS NIS 81. In the General Radiated Emission Test, the uncertainty is within ± 2.5 dB

4. Conducted emission test FCC 15.207

4.1 Operating environment

Temperature: 25 °C
Relative Humidity: 58 %

4.2 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.

4.3 Emission limit

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



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 20 of 23

4.4 Conducted emission data FCC 15.207

EUT : MI-2410IRN(TX)
Test Mode : low channel
Test Condition : Transmitter Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.45000	29.2	48.00	-18.80
LINE	3.15400	12.0	48.00	-36.00
LINE	4.49800	17.7	48.00	-30.30
LINE	8.25800	21.1	48.00	-26.90
LINE	16.44200	19.9	48.00	-28.10
LINE	27.98600	22.5	48.00	-25.50
NEUTRAL	0.45000	18.5	48.00	-29.50
NEUTRAL	0.53800	17.2	48.00	-30.80
NEUTRAL	3.22600	19.3	48.00	-28.70
NEUTRAL	6.65000	20.4	48.00	-27.60
NEUTRAL	16.79400	21.4	48.00	-26.60
NEUTRAL	25.32200	22.7	48.00	-25.30

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 ± 2 dB



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 21 of 23

EUT : MI-2410IRN(TX)
Test Mode : middle channel
Test Condition : Transmitter Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.45000	29.2	48.00	-18.80
LINE	1.34600	13.9	48.00	-34.10
LINE	3.22600	18.9	48.00	-29.10
LINE	6.99400	20.0	48.00	-28.00
LINE	17.15400	12.9	48.00	-35.10
LINE	28.98600	19.1	48.00	-28.90
NEUTRAL	0.45000	18.6	48.00	-29.40
NEUTRAL	1.47400	13.7	48.00	-34.30
NEUTRAL	3.29000	18.9	48.00	-29.10
NEUTRAL	7.32200	21.8	48.00	-26.20
NEUTRAL	17.06600	21.1	48.00	-26.90
NEUTRAL	26.87400	21.3	48.00	-26.70

Remark:

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 ± 2 dB



Intertek Testing Services

ETL SEMKO

FCC ID. : QAAMI-2410TX

Report No.: EME-020264
Page 22 of 23

EUT : MI-2410IRN(TX)
Test Mode : high channel
Test Condition : Transmitter Mode

Power Line (circle)	Freq. (MHz)	Reading (dB μ V) QP	Limit (dB μ V) QP	Margin (dB) QP
LINE	0.45000	29.5	48.00	-18.50
LINE	1.48200	15.2	48.00	-32.80
LINE	3.16200	19.7	48.00	-28.30
LINE	7.53800	18.4	48.00	-29.60
LINE	16.69000	17.9	48.00	-30.10
LINE	27.98600	25.4	48.00	-22.60
NEUTRAL	0.45000	18.8	48.00	-29.20
NEUTRAL	1.34600	15.0	48.00	-33.00
NEUTRAL	3.23400	20.5	48.00	-27.50
NEUTRAL	8.62600	17.9	48.00	-30.10
NEUTRAL	16.91400	15.3	48.00	-32.70
NEUTRAL	29.37800	17.5	48.00	-30.50
NEUTRAL	0.45000	18.8	48.00	-29.20

Remark:

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 ± 2 dB



5. Radiated emission on the band edge FCC 15.249(C)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (2400~2483.5MHz). Please refer to the attachment plots.

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