

TEST REPORT FOR CANADA CERTIFICATION
On Behalf of
Futaba Corporation
Wireless Modem with Serial Interface
Model No. : FDQ02T
FCC ID : AZP-FDQ02T

Prepared for : Futaba Corporation
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TEST REPORT FOR CANADA CERTIFICATION

Applicant : Futaba Corporation
 Manufacturer : Futaba Corporation
 EUT Description : Wireless Modem with Serial Interface
 FCC ID : AZP-FDQ02T
 (A) MODEL NO. : FDQ02T
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 6 ~ 9V
 (D) TEST VOLTAGE : AC 120V, 60Hz (Via PC System) or
 DC 6V (DC Power Supply)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, FEBRUARY 2006
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)

INDUSTRY CANADA RULES AND REGULATIONS RSS-210, NOV. 2001
(Canada RSS-210, §6.2.2 (o))

The device described above was tested by AUDIX CORPORATION to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and AUDIX CORPORATION is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX CORPORATION.

Date of Test: May 02 ~ 05, 2006

Prepared by: Monica Chang May 12, 2006
(Monica Chang/Administrator)

Test Engineer: Ben Cheng May 12, 2006
(Ben Cheng/Section Manager)

Approved & Authorized Signer: Leon Liu May 12, 2006
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Wireless Modem with Serial Interface
Model Number	:	FDQ02T
FCC ID	:	AZP-FDQ02T
Applicant	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Manufacturer	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Radio Technology	:	DSSS Modulation
Frequency Band	:	2405.376MHz ~ 2448.384MHz In 2.048MHz Separation
Tested Frequency	:	2405.376MHz (Channel 2) 2423.808MHz (Channel 20) 2448.384MHz (Channel 44)
Frequency Channel	:	22 channels
Antenna (Option)	:	(1)Antenna Type A (2)Antenna Type B
Antenna Gain	:	Antenna Type A: 2.14dBi (Cable Loss =0.5dB) Antenna Type B: 2.14dBi (Cable Loss =0.5dB)
Communication Cable (Option)	:	Non-Shielded, Detachable, 0.15m
Date of Receipt of Sample	:	Mar. 23, 2006
Date of Test	:	May 02 ~ 05, 2006

Remark:

This EUT has two different antennas (RF Connector: SMD Type).
Inform user that any change and modify is prohibited.

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number	:	D530 CMT
Serial Number	:	SGH34105H7
FCC ID	:	By DoC
BSMI ID	:	R33001
Brand	:	HP
Manufacturer	:	First International Computer, Inc.
VGA Card	:	On Board
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. 15" LCD MONITOR (TO PC SYSTEM)

Model Number	:	D5063M
Serial Number	:	CN206A7026
FCC ID	:	ARSLM562H
BSMI ID	:	R33037
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.
D-Sub Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
AC Adapter	:	Delta, M/N ADP-40TB BSMI ID 3892D142 Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.3. KEYBOARD (TO PC SYSTEM)

Model Number	:	SDM4700P
Serial Number	:	B69360HLPPD0TL
FCC ID	:	By DoC
BSMI ID	:	R33018
Manufacturer	:	Samsung Electro-Mechanics Co., Ltd.
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.4. MOUSE (TO PC SYSTEM)

Model Number	:	M-S69
Serial Number	:	F6AB70S5BOY1NWZ
FCC ID	:	JNZ211443
BSMI ID	:	R41126
Manufacturer	:	Logitech (Brand: HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.5. DC POWER SUPPLY CONVERSION BOARD

Model Number	:	3303A
Serial Number	:	721773
Manufacturer	:	TOP WARD
DC Power Cable *2	:	Non-Shielded, Detachable, 0.75m + 0.3m *2 (To EUT) +0.7m *2 (To Conversion Board)
AC Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.6. CONVERSION BOARD

Part Number : 050200008
 Serial Number : N/A
 Manufacturer : FUTABA
 RS-232 Cable : Shielded, Detachable, 1.5m (To PC System)

1.3. Description of Test Facility

Name of Firm : **Audix Corporation**
Technical Division EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility (C2/AC) : **No. 2 Shielded Room**
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Semi-Anechoic Chamber
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

May. 16, 2003 File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	$\pm 1.73\text{dB}$
Radiation Test (Distance: 3m)	30MHz~300MHz	$\pm 2.91\text{dB}$
	300MHz~1000MHz	$\pm 2.74\text{dB}$
	Above 1GHz	$\pm 5.02\text{dB}$

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	$\pm 0.05\text{kHz}$
Emission Limitations	$\pm 0.13\text{dB}$
Maximum peak output power	$\pm 0.33\text{dBm}$
Band edges	$\pm 0.13\text{dB}$
Power spectral density	$\pm 0.13\text{dB}$

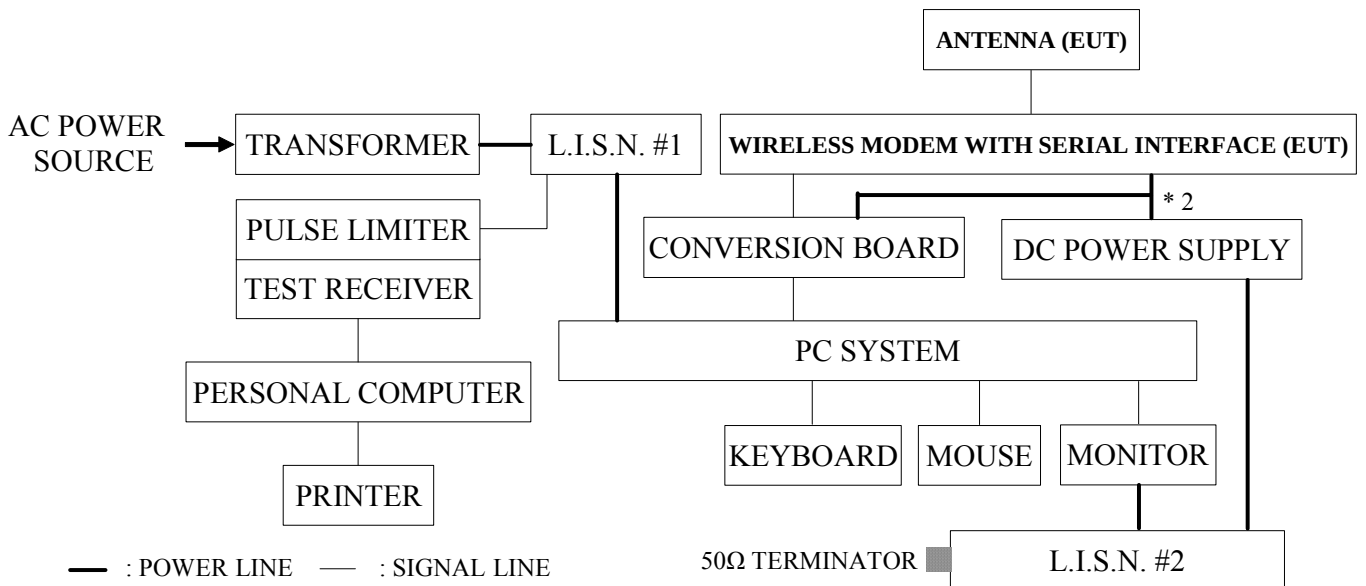
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100265	Sep. 27, 05'	Sep. 26, 06'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1430-5	Sep. 27, 05'	Sep. 26, 06'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1430-6	Sep. 27, 05'	Sep. 26, 06'
4.	Pulse Limiter	R & S	ESH3Z2	001	Mar. 11, 06'	Mar. 10, 07'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turned on the power of all equipment.
- 2.4.3. The PC system running the test program “Futaba Term” enable the EUT to transmit and receive data at frequency 2423.808MHz during all testing.

2.5. Test Procedure

The EUT and simulator was put on table which was above the ground by 80cm, the EUT was powered via the conversion board. The conversion board was connected to the DC Power Supply and PC system, the PC's power cord was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2) This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-2003 on conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Test Results

PASSED. (All the emissions not reported below are too low against the prescribed limits.)

The EUT with two different antennas was tested during the testing and all the test results are listed in the next pages.

EUT : Wireless Modem with Serial Interface M/N : FDQ02T

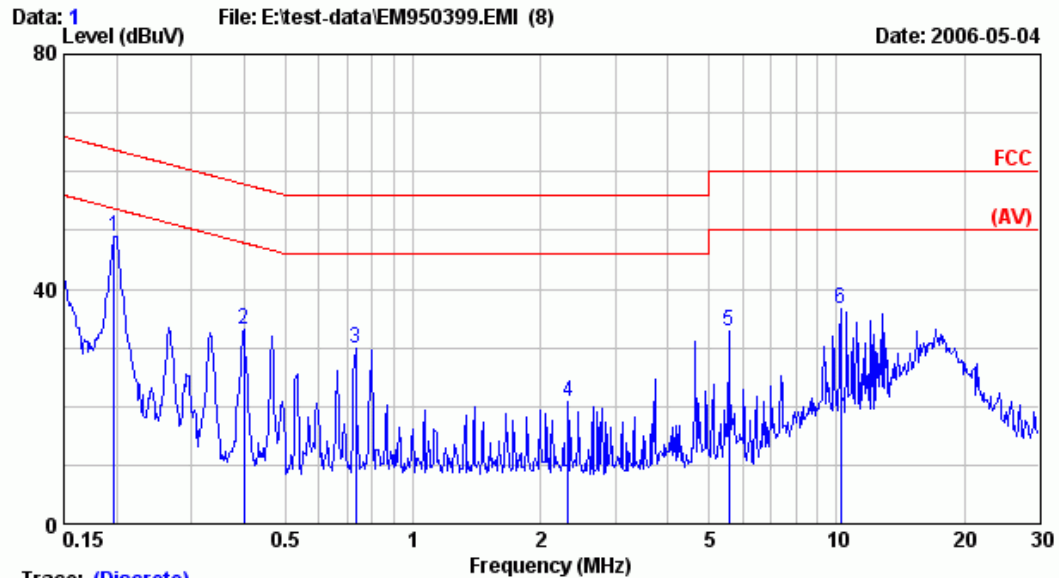
Test Date : May 04, 2006 Temperature : 23°C Humidity : 58%

The details of test modes and reference test data are as follows:

Mode	Antenna	Reference Data No.	
		Neutral	Line
1.	Antenna Type A	# 1	# 2
2.	Antenna Type B	# 8	# 7



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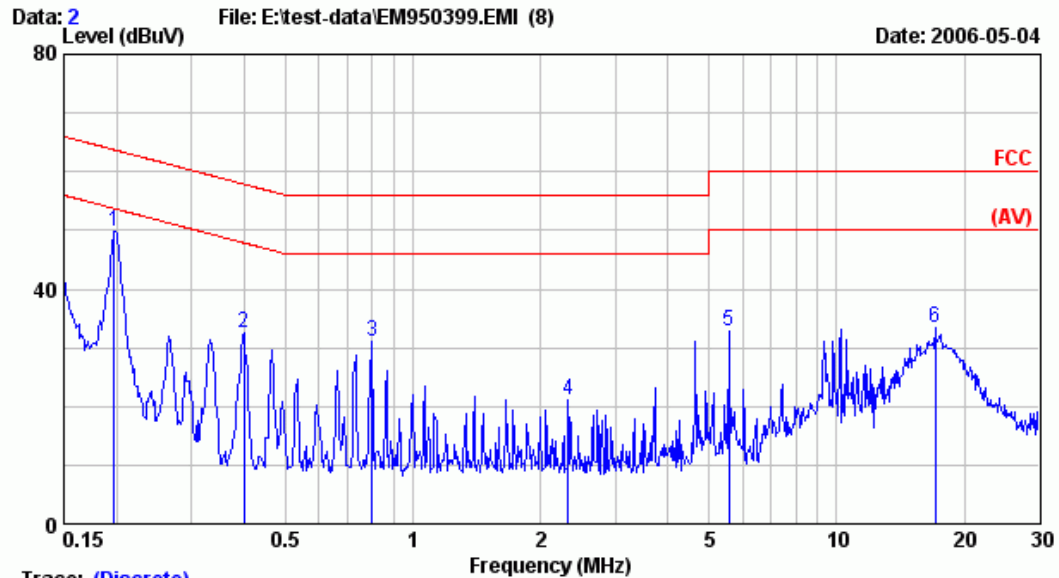
Site : No.2 Shielded room Data : 1
Condition : KMW-407 Phase : NEUTRAL
Limit : FCC
Env. / Ins. : 23°C, 58% / ESCS 30 Engineer: Ada Huang
EUT : Wireless Modem with Serial Interface
Power Rating : 120Vac/60Hz M/N:FDQ02T
Test Mode : operating(Antenna A)

		CLAMP	Cable		Emission			
Freq.		Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)		(dB)	(dB)	(dBpW)	(dBpW)	(dBpW)	(dB)	
1	0.198	0.20	0.26	48.58	49.04	63.71	14.67	QP
2	0.400	0.10	0.32	32.63	33.05	57.86	24.81	QP
3	0.731	0.10	0.37	29.51	29.98	56.00	26.02	QP
4	2.321	0.10	0.40	20.32	20.82	56.00	35.18	QP
5	5.564	0.10	0.51	32.12	32.73	60.00	27.27	QP
6	10.233	0.11	0.70	35.93	36.74	60.00	23.26	QP

Remarks: 1.Emission Level= CLAMP Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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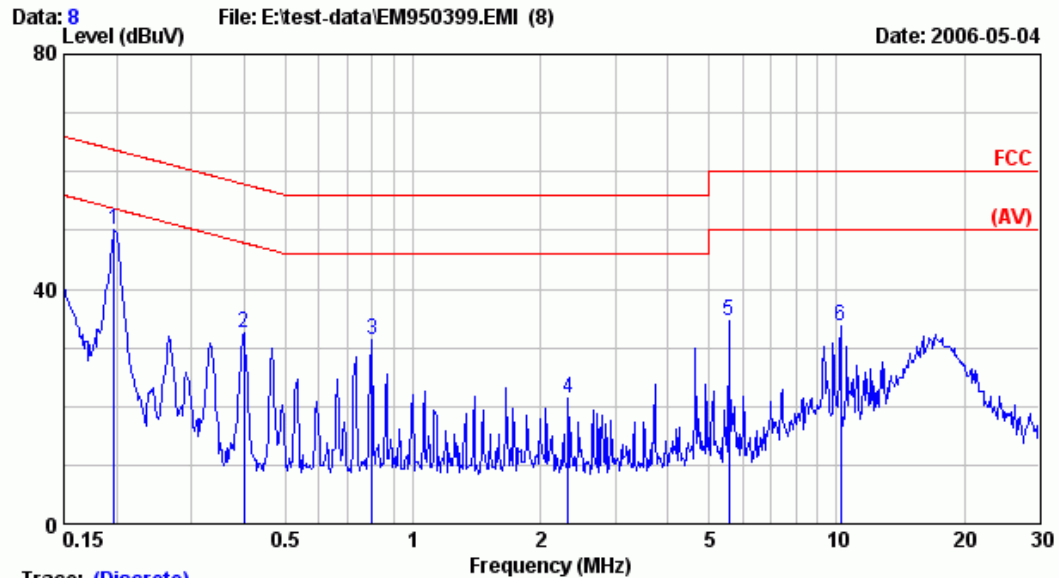
Site : No.2 Shielded room Data : 2
 Condition : KMW-407 Phase : LINE
 Limit : FCC
 Env. / Ins. : 23°C, 58% / ESCS 30 Engineer: Ada Huang
 EUT : Wireless Modem with Serial Interface
 Power Rating : 120Vac/60Hz M/N:FDQ02T
 Test Mode : operating(Antenna A)

		CLAMP		Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB)	(dB)	(dBpW)	(dBpW)	(dBpW)	(dB)		
1	0.198	0.20	0.26	49.45	49.91	63.71	13.80	QP	
2	0.400	0.10	0.32	32.06	32.48	57.86	25.38	QP	
3	0.800	0.10	0.38	30.49	30.97	56.00	25.03	QP	
4	2.321	0.10	0.40	20.62	21.12	56.00	34.88	QP	
5	5.564	0.14	0.51	32.04	32.68	60.00	27.32	QP	
6	17.109	0.25	0.70	32.42	33.37	60.00	26.63	QP	

Remarks: 1.Emission Level= CLAMP Factor + Cable Loss + Reading.
 2.If the average limit is met when using a quasi-peak detector
 ,the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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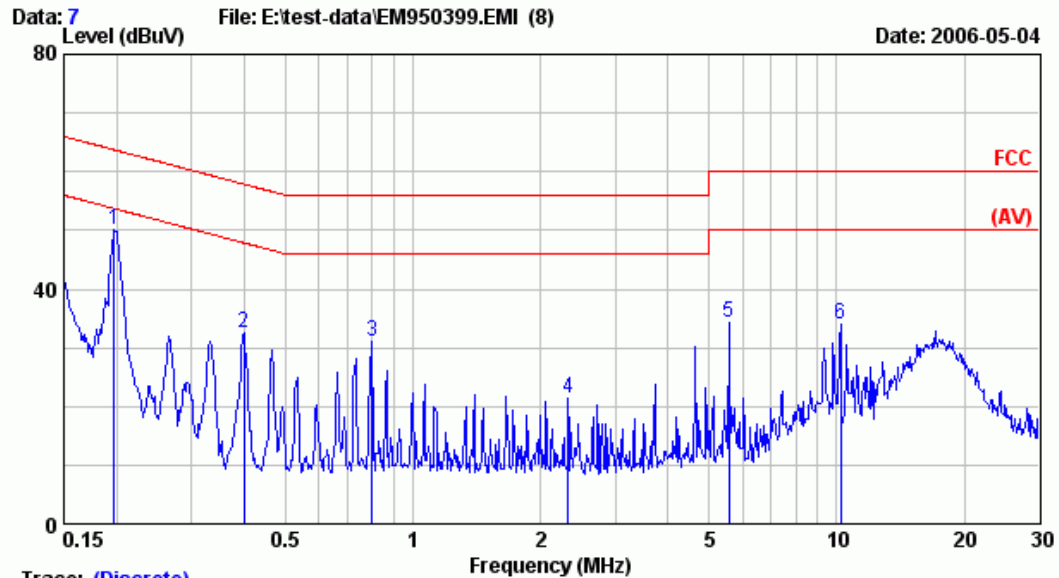
Site : No.2 Shielded room Data : 8
 Condition : KMW-407 Phase : NEUTRAL
 Limit : FCC
 Env. / Ins. : 23°C, 58% / ESCS 30 Engineer: Ada Huang
 EUT : Wireless Modem with Serial Interface
 Power Rating : 120Vac/60Hz M/N:FDQ02T
 Test Mode : operating(Antenna B)

		CLAMP	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dBpW)	(dBpW)	(dBpW)	(dB)		
1	0.198	0.20	0.26	49.55	50.01	63.71	13.70	QP
2	0.400	0.10	0.32	32.12	32.54	57.86	25.32	QP
3	0.800	0.10	0.38	30.77	31.25	56.00	24.75	QP
4	2.321	0.10	0.40	20.91	21.41	56.00	34.59	QP
5	5.564	0.10	0.51	33.94	34.55	60.00	25.45	QP
6	10.233	0.11	0.70	32.92	33.73	60.00	26.27	QP

Remarks: 1.Emission Level= CLAMP Factor + Cable Loss + Reading.
 2.If the average limit is met when using a quasi-peak detector
 ,the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



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Site : No.2 Shielded room Data : 7
Condition : KMW-407 Phase : LINE
Limit : FCC
Env. / Ins. : 23°C, 58% / ESCS 30 Engineer: Ada Huang
EUT : Wireless Modem with Serial Interface
Power Rating : 120Vac/60Hz M/N:FDQ02T
Test Mode : operating(Antenna B)

		CLAMP	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dBpW)	(dBpW)	(dBpW)	(dB)		
1	0.198	0.20	0.26	49.55	50.01	63.71	13.70	QP
2	0.400	0.10	0.32	32.02	32.44	57.86	25.42	QP
3	0.800	0.10	0.38	30.47	30.95	56.00	25.05	QP
4	2.321	0.10	0.40	20.87	21.37	56.00	34.63	QP
5	5.564	0.14	0.51	33.74	34.38	60.00	25.62	QP
6	10.233	0.20	0.70	33.18	34.08	60.00	25.92	QP

Remarks: 1.Emission Level= CLAMP Factor + Cable Loss + Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

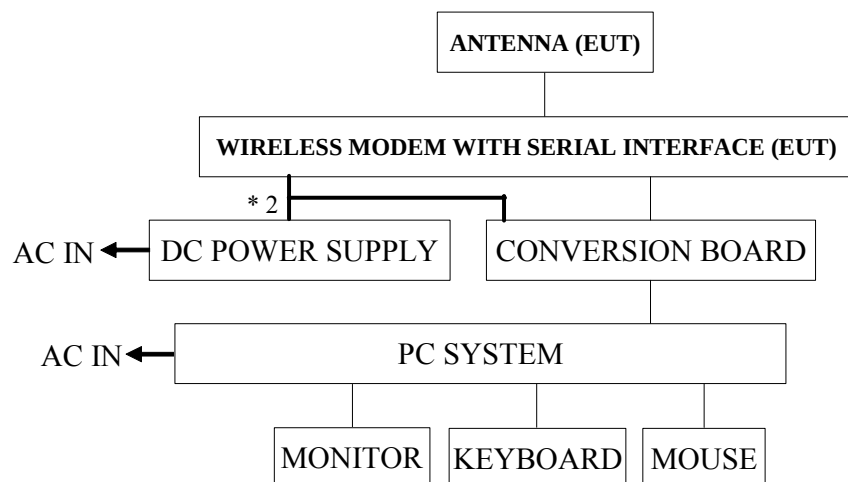
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Test Receiver	R & S	ESCS30	100265	Sep. 27, 05'	Sep. 25, 06'
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 09, 06'	Mar. 08, 07'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Nov. 11, 05'	Nov. 10, 06'
5.	Log Periodic Antenna	Schwarzbeck	UHALP91 08-A	0139	Nov. 19, 05'	Nov. 18, 06'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

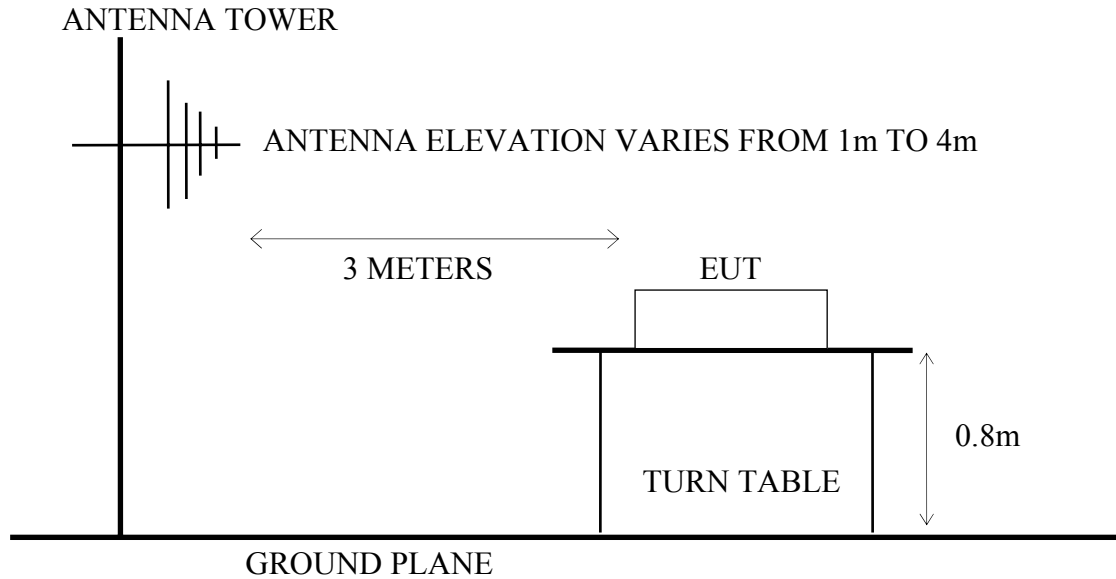
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Pre-Amplifier	HP	8449B	3008A01284	Jul. 05, 05'	Jul. 04, 06'
3.	3.5G High Pass Filter	HP	84300- 80038	005	Jan. 11, 06'	Jan. 10, 07'
4.	Horn Antenna	EMCO	3115	9609-4927	Jul. 08, 05'	Jul. 07, 06'
5.	Horn Antenna	EMCO	3116	2653	Oct. 13, 05'	Oct. 12, 06'

3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown on 3.2.
- 3.4.2. Turned on the power of all equipment.
- 3.4.3. The PC system running the test program “Futaba Term” enable the EUT to transmit and receive data at three frequencies 2405.376MHz, 2423.808MHz and 2448.384MHz during all testing.

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The bandwidth of the Spectrum Analyzer was set at 1MHz.

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.6. Test Results

PASSED. (All the emissions not reported below are too low against the official limits.)

For Frequency Range 30MHz~300MHz:

The EUT with the following test modes was tested in frequency range of 30MHz~300MHz and all the test results are listed in section 3.6.1.

Mode	Antenna	Operation	Channel	Frequency
1.	Antenna Type A	Transmitting	2	2405.376MHz
2.			20	2423.808MHz
3.			44	2448.384MHz
4.		Receiving	20	2423.808MHz
5.	Antenna Type B	Transmitting	2	2405.376MHz
6.			20	2423.808MHz
7.			44	2448.384MHz
8.		Receiving	20	2423.808MHz

* Above all final readings were measured with **Quasi-Peak detector**.

For Frequency Range 300MHz~1000MHz:

The EUT with the following test modes was tested in frequency range of 300MHz~1000MHz and all the test results are listed in section 3.6.2.

Mode	Antenna	Operation	Channel	Frequency
1.	Antenna Type A	Transmitting	2	2405.376MHz
2.			20	2423.808MHz
3.			44	2448.384MHz
4.		Receiving	20	2423.808MHz
5.	Antenna Type B	Transmitting	2	2405.376MHz
6.			20	2423.808MHz
7.			44	2448.384MHz
8.		Receiving	20	2423.808MHz

* Above all final readings were measured with **Quasi-Peak detector**.

For Frequency Range Above 1GHz:

The EUT was tested with the following test modes in frequency range above 1GHz and all the test results are listed in section 3.6.3.

Mode	Antenna	Operation	Channel	Frequency
1.	Antenna Type A	Transmitting	2	2405.376MHz
2.			20	2423.808MHz
3.			44	2448.384MHz
4.		Receiving	20	2423.808MHz
5.	Antenna Type B	Transmitting	2	2405.376MHz
6.			20	2423.808MHz
7.			44	2448.384MHz
8.		Receiving	20	2423.808MHz

* Above all final readings were measured with **Peak detector and Average detector**.

For Restricted Bands:

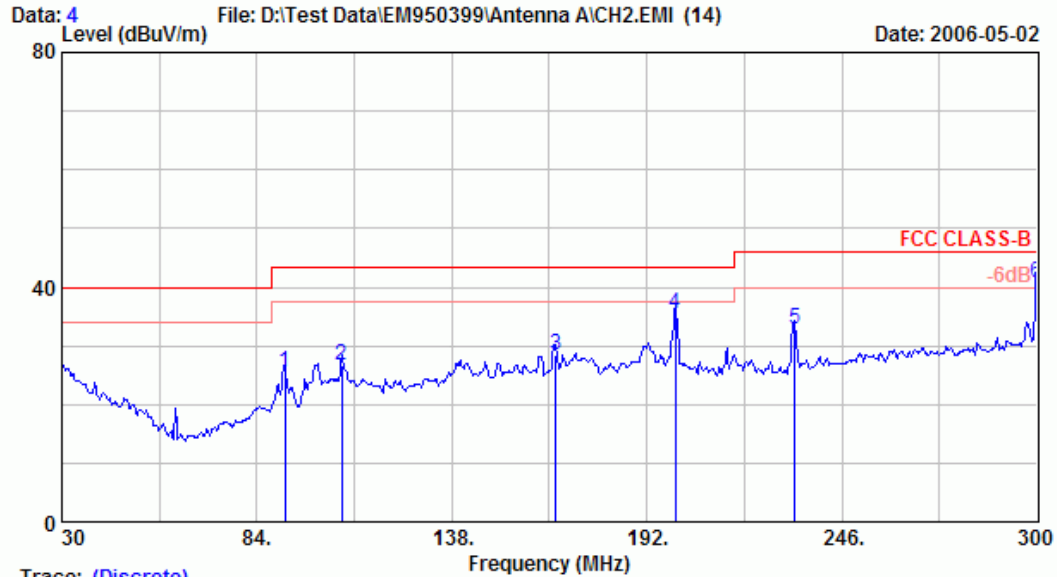
The EUT was tested in restricted bands and all the test results are listed in section 3.6.4. (The restricted bands defined in part 15.205(a))

Mode	Antenna	Channel and Frequency
1.	Antenna Type A	(1)Channel 2, 2405.376MHz
2.	Antenna Type B	(2)Channel 44, 2448.384MHz

3.6.1. Frequency Range 30-300MHz



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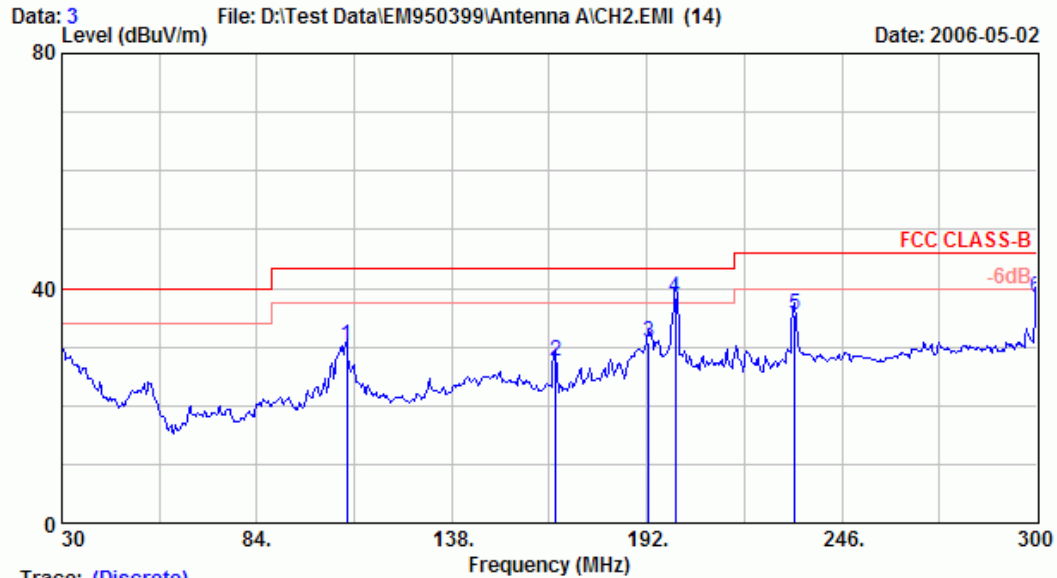
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna A)

	Ant.	Cable			Emission		
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	91.830	16.03	2.00	7.39	25.43	43.50	18.07
2	107.490	17.87	2.20	6.53	26.60	43.50	16.90
3	166.890	20.96	2.70	4.77	28.43	43.50	15.07
4	199.830	22.08	3.00	10.40	35.48	43.50	8.02
5	233.040	22.40	3.30	7.25	32.94	46.00	13.06
6	300.000	26.78	3.90	9.97	40.65	46.00	5.35

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

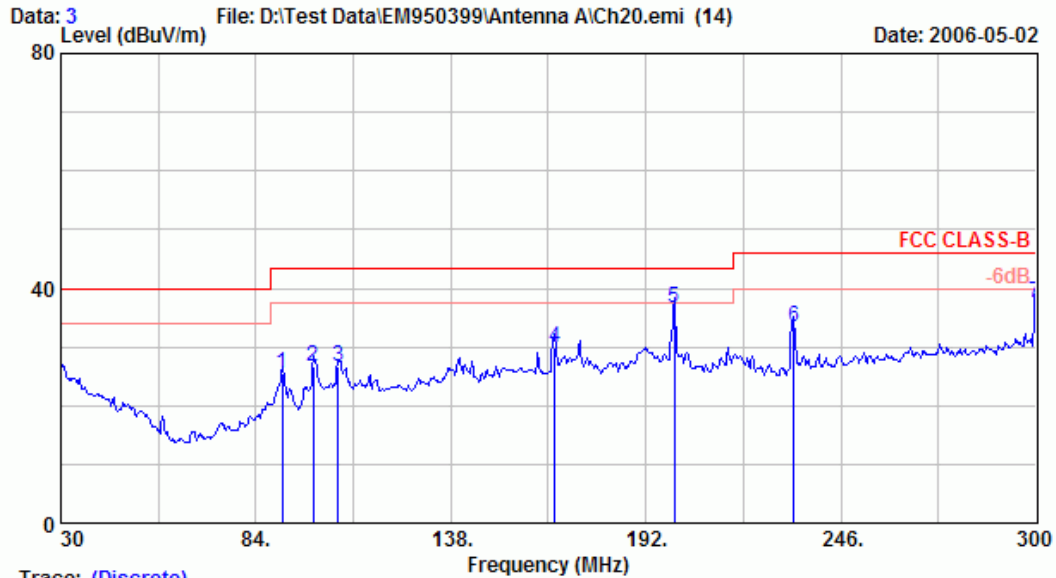
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	108.840	17.90	2.20	10.09	30.19	43.50	13.32	
2	166.890	20.41	2.70	4.47	27.59	43.50	15.91	
3	192.540	22.08	3.00	5.67	30.75	43.50	12.75	
4	199.830	22.86	3.00	12.68	38.53	43.50	4.97	
5	233.040	24.80	3.30	7.47	35.57	46.00	10.43	
6	300.000	26.87	3.90	7.55	38.32	46.00	7.68	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

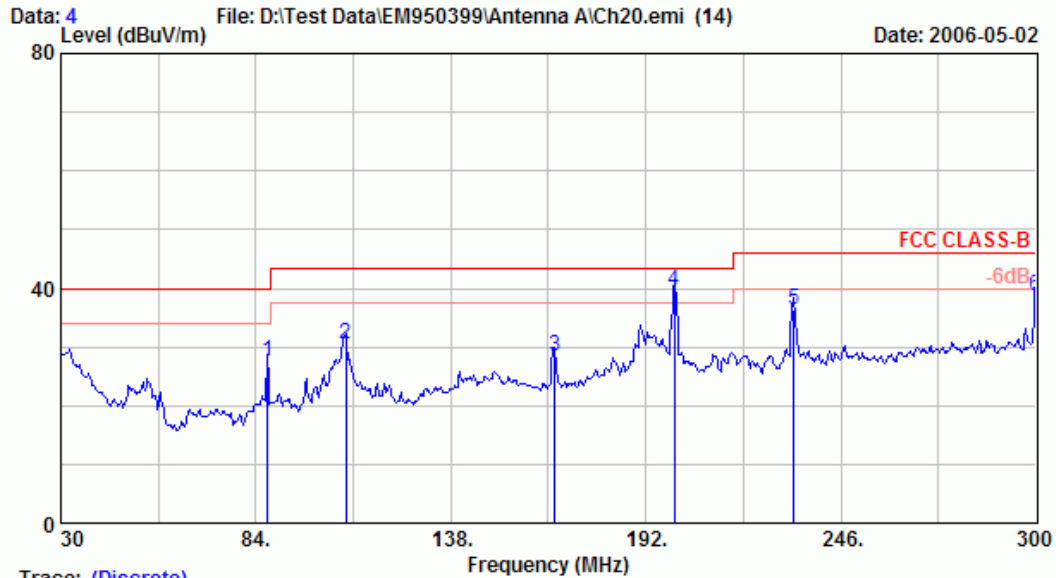
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	91.290	15.95	2.00	7.61	25.55	43.50	17.95	
2	99.930	17.08	2.10	7.37	26.55	43.50	16.95	
3	106.680	17.77	2.20	6.57	26.54	43.50	16.96	
4	166.890	20.96	2.70	6.24	29.90	43.50	13.60	
5	199.830	22.08	3.00	11.46	36.54	43.50	6.96	
6	233.040	22.40	3.30	7.58	33.28	46.00	12.72	
7	300.000	26.78	3.90	6.92	37.60	46.00	8.40	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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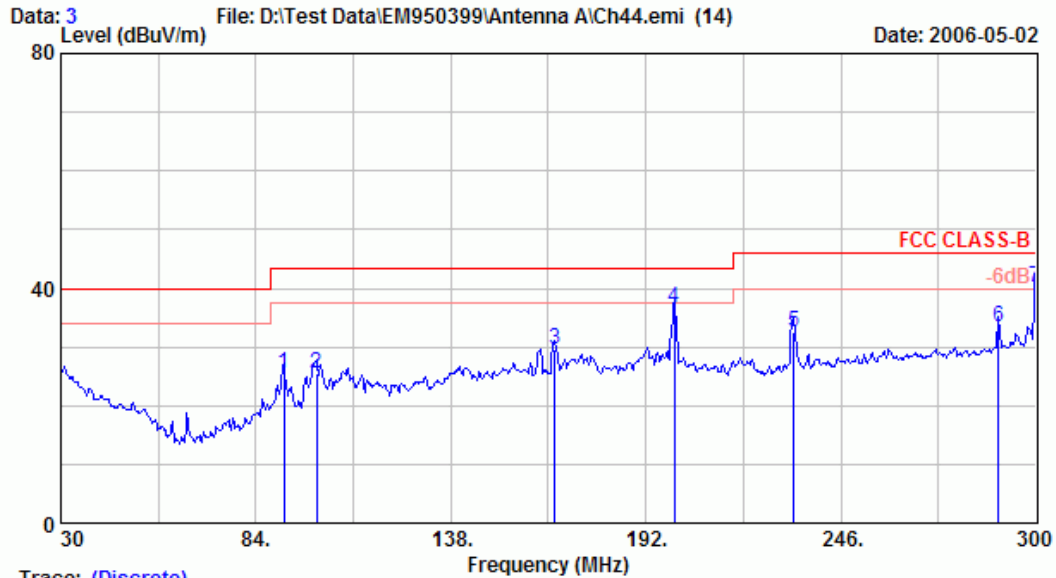
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	87.240	15.32	2.00	10.14	27.46	40.00	12.54	
2	108.840	17.90	2.20	10.47	30.57	43.50	12.93	
3	166.890	20.41	2.70	5.36	28.48	43.50	15.02	
4	199.830	22.86	3.00	13.72	39.58	43.50	3.92	
5	233.040	24.80	3.30	8.38	36.47	46.00	9.53	
6	300.000	26.87	3.90	7.79	38.56	46.00	7.44	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

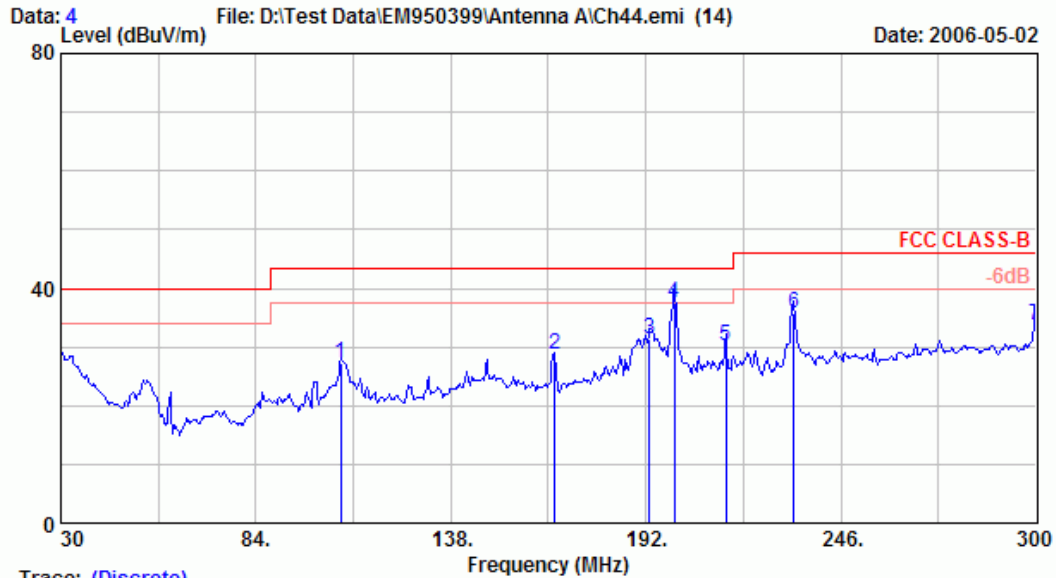
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	91.830	16.03	2.00	7.45	25.48	43.50	18.02	
2	100.740	17.17	2.10	6.32	25.59	43.50	17.91	
3	166.890	20.96	2.70	5.92	29.58	43.50	13.92	
4	199.830	22.08	3.00	11.51	36.59	43.50	6.91	
5	233.040	22.40	3.30	6.89	32.59	46.00	13.41	
6	289.740	26.06	3.80	3.41	33.27	46.00	12.73	
7	300.000	26.78	3.90	9.60	40.28	46.00	5.72	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

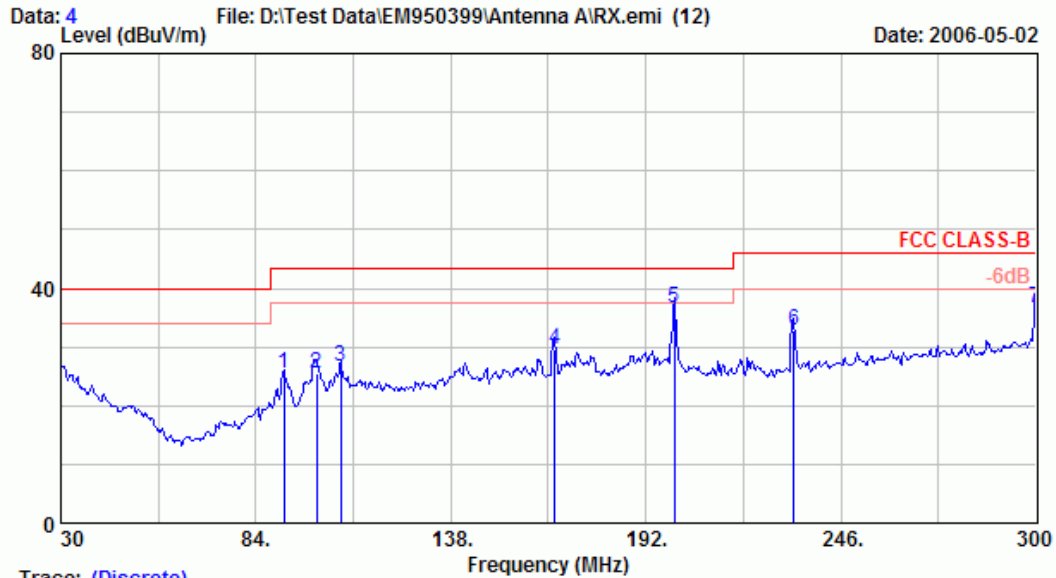
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	107.490	17.80	2.20	7.17	27.18	43.50	16.32	
2	166.890	20.41	2.70	5.46	28.57	43.50	14.93	
3	193.080	22.13	3.00	6.35	31.48	43.50	12.02	
4	199.830	22.86	3.00	11.71	37.56	43.50	5.94	
5	214.140	22.50	3.11	4.56	30.17	43.50	13.33	
6	233.040	24.80	3.30	7.65	35.74	46.00	10.26	
7	300.000	26.87	3.90	2.81	33.58	46.00	12.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

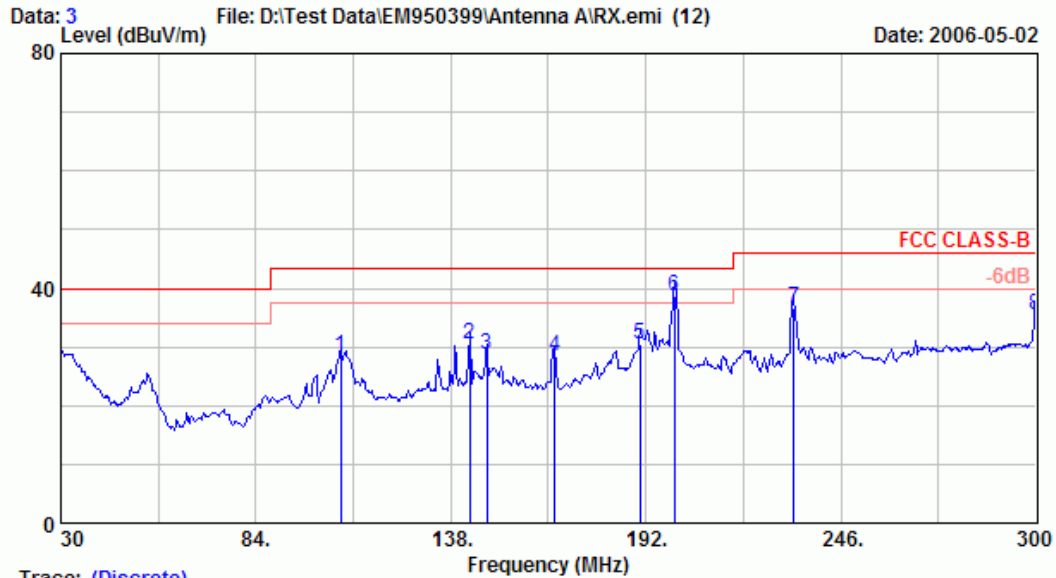
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	91.830	16.03	2.00	7.53	25.56	43.50	17.94	
2	100.740	17.17	2.10	6.33	25.60	43.50	17.90	
3	107.490	17.87	2.20	6.51	26.58	43.50	16.92	
4	166.890	20.96	2.70	6.03	29.69	43.50	13.81	
5	199.830	22.08	3.00	11.48	36.56	43.50	6.94	
6	233.040	22.40	3.30	7.16	32.85	46.00	13.15	
7	300.000	26.78	3.90	5.88	36.56	46.00	9.44	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

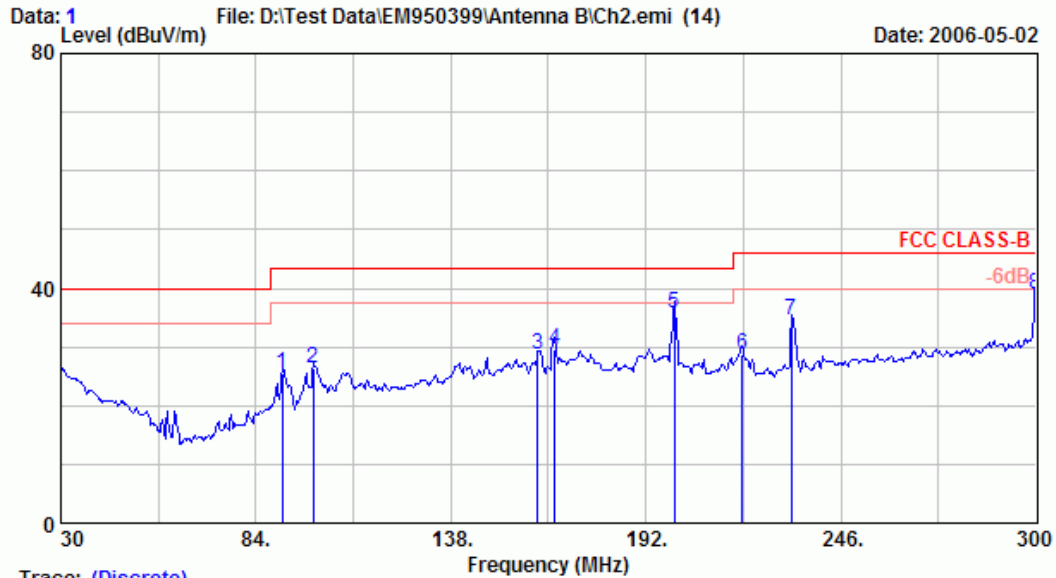
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	107.490	17.80	2.20	8.45	28.46	43.50	15.04	
2	143.130	20.64	2.50	7.36	30.50	43.50	13.00	
3	147.990	21.90	2.60	4.08	28.57	43.50	14.93	
4	166.890	20.41	2.70	5.35	28.46	43.50	15.04	
5	190.380	22.04	2.92	5.51	30.46	43.50	13.04	
6	199.830	22.86	3.00	12.68	38.54	43.50	4.96	
7	233.040	24.80	3.30	8.47	36.57	46.00	9.43	
8	300.000	26.87	3.90	4.80	35.57	46.00	10.43	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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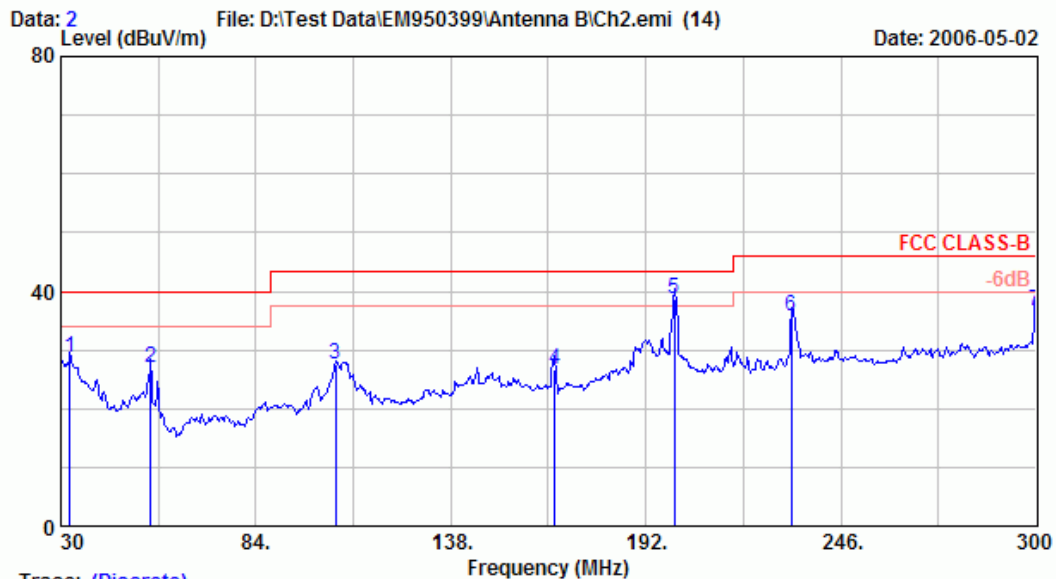
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Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	91.290	15.95	2.00	7.51	25.46	43.50	18.04	
2	99.930	17.08	2.10	7.28	26.45	43.50	17.05	
3	162.030	20.85	2.70	5.08	28.63	43.50	14.87	
4	166.890	20.96	2.70	6.00	29.66	43.50	13.84	
5	199.830	22.08	3.00	10.61	35.69	43.50	7.81	
6	218.730	21.91	3.21	3.67	28.79	46.00	17.21	
7	232.230	22.30	3.30	8.97	34.57	46.00	11.43	
8	300.000	26.78	3.90	8.27	38.95	46.00	7.05	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

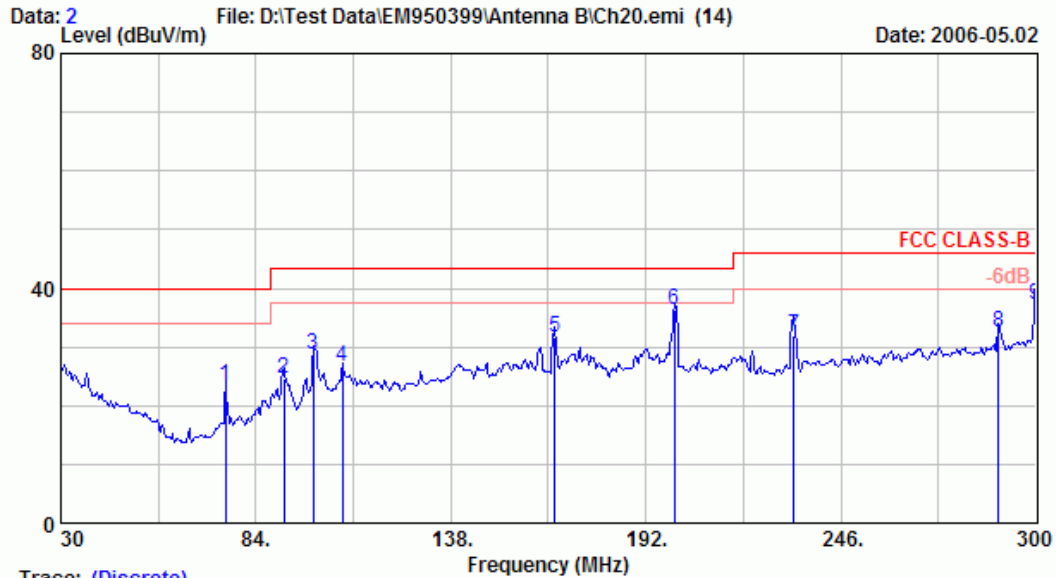
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Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.430	22.08	1.10	5.50	28.67	40.00	11.33	
2	54.840	14.31	1.50	11.06	26.87	40.00	13.13	
3	106.140	17.71	2.20	7.55	27.46	43.50	16.04	
4	166.890	20.41	2.70	3.67	26.79	43.50	16.72	
5	199.830	22.86	3.00	12.72	38.58	43.50	4.92	
6	232.230	24.59	3.30	7.90	35.79	46.00	10.21	
7	300.000	26.87	3.90	5.81	36.58	46.00	9.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

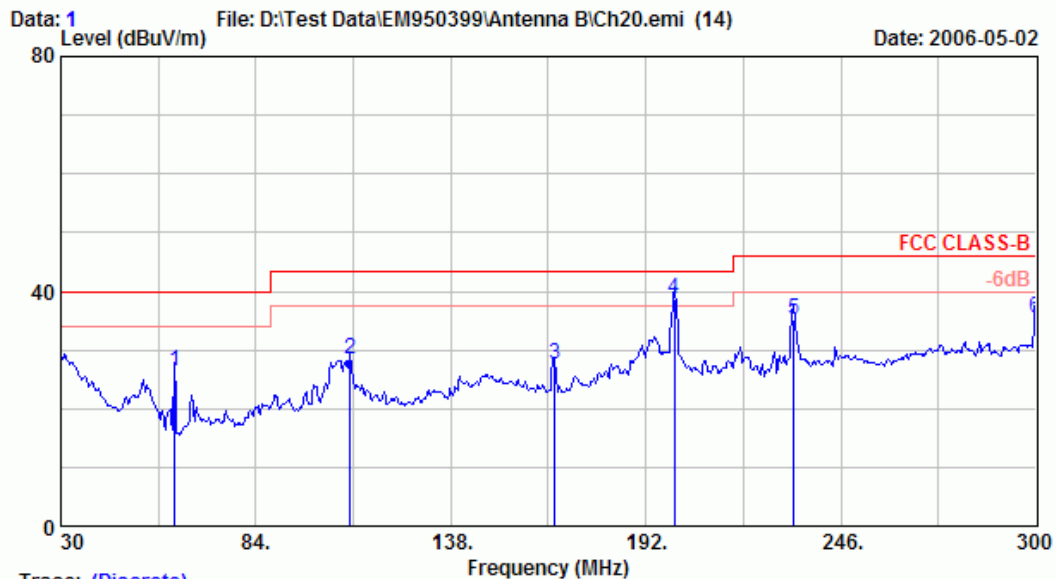
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Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	75.630	12.88	1.80	8.88	23.56	40.00	16.44	
2	91.830	16.03	2.00	6.53	24.57	43.50	18.94	
3	99.930	17.08	2.10	9.40	28.57	43.50	14.93	
4	108.030	17.95	2.20	6.41	26.56	43.50	16.94	
5	166.890	20.96	2.70	7.91	31.57	43.50	11.93	
6	199.830	22.08	3.00	11.26	36.34	43.50	7.16	
7	233.040	22.40	3.30	6.15	31.85	46.00	14.15	
8	289.740	26.06	3.80	2.72	32.58	46.00	13.42	
9	300.000	26.78	3.90	6.59	37.27	46.00	8.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



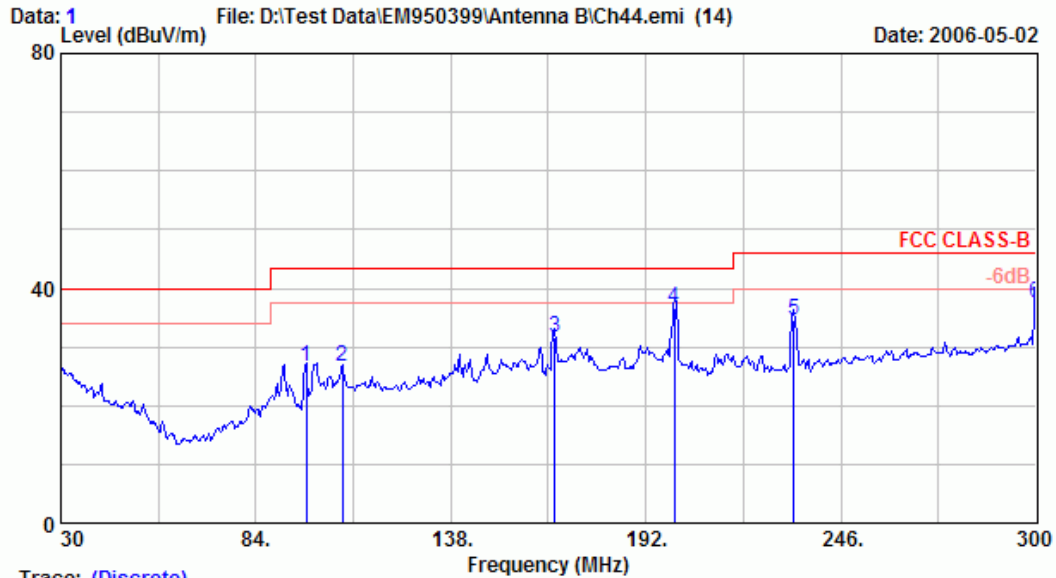
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Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	61.590	13.32	1.60	11.53	26.45	40.00	13.55	
2	110.190	17.97	2.20	8.30	28.47	43.50	15.03	
3	166.890	20.41	2.70	4.33	27.45	43.50	16.05	
4	199.830	22.86	3.00	12.84	38.69	43.50	4.81	
5	233.040	24.80	3.30	7.06	35.15	46.00	10.85	
6	300.000	26.87	3.90	4.58	35.35	46.00	10.65	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

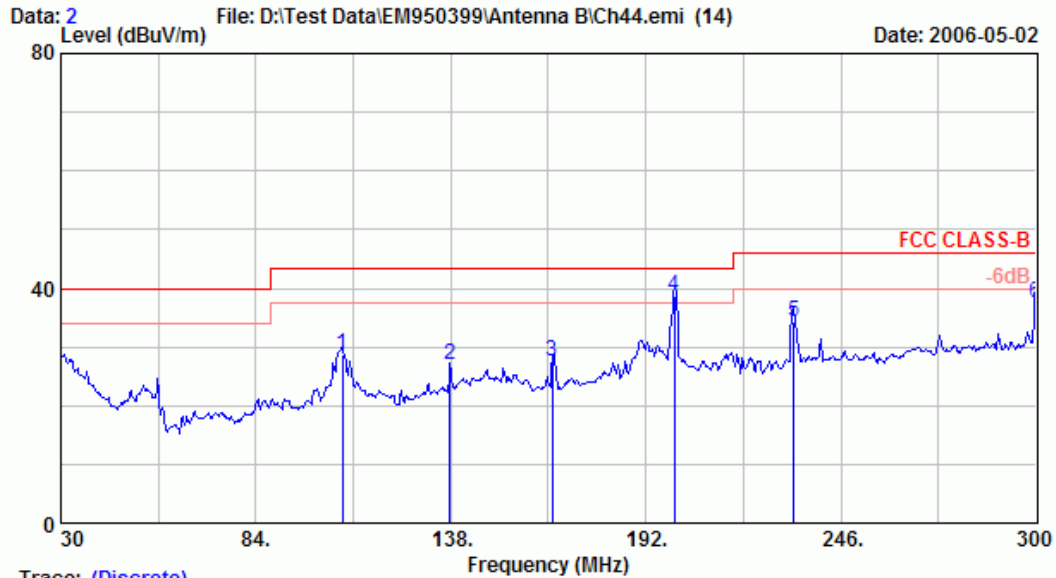
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	98.040	16.87	2.10	7.61	26.58	43.50	16.92	
2	108.030	17.95	2.20	6.38	26.53	43.50	16.97	
3	166.890	20.96	2.70	7.93	31.59	43.50	11.91	
4	199.830	22.08	3.00	11.60	36.67	43.50	6.83	
5	233.040	22.40	3.30	8.94	34.64	46.00	11.36	
6	300.000	26.78	3.90	6.70	37.38	46.00	8.62	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

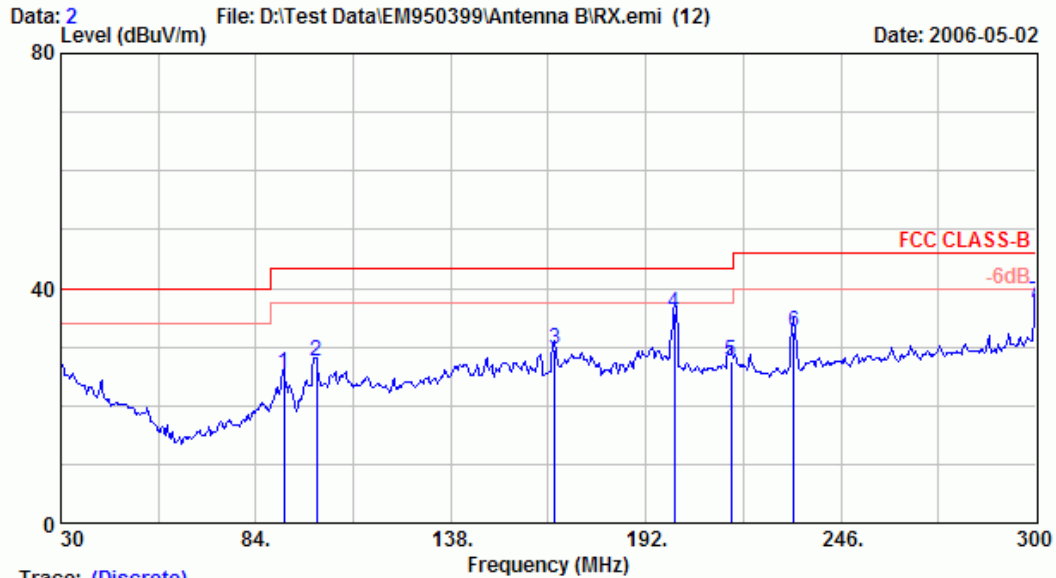
Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	108.030	17.84	2.20	8.59	28.64	43.50	14.86	
2	137.730	19.07	2.43	5.36	26.85	43.50	16.65	
3	166.080	20.69	2.70	4.18	27.57	43.50	15.93	
4	199.830	22.86	3.00	12.72	38.57	43.50	4.93	
5	233.040	24.80	3.30	6.09	34.19	46.00	11.82	
6	300.000	26.87	3.90	6.74	37.51	46.00	8.49	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



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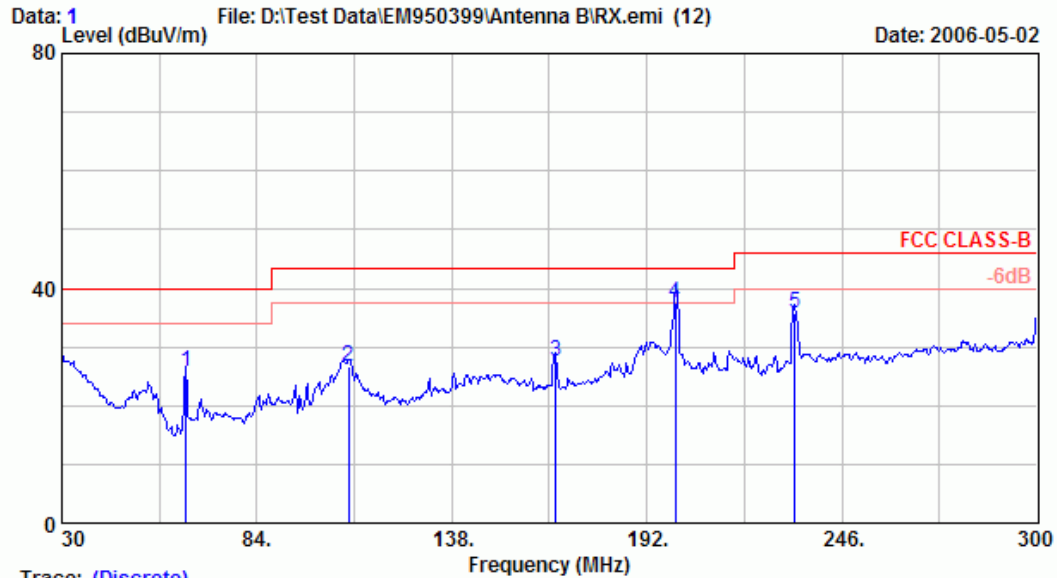
Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m VBA6106A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	91.830	16.03	2.00	7.53	25.57	43.50	17.93	
2	100.740	17.17	2.10	8.41	27.68	43.50	15.82	
3	166.890	20.96	2.70	6.03	29.69	43.50	13.81	
4	199.830	22.08	3.00	10.58	35.65	43.50	7.85	
5	215.490	21.83	3.20	2.62	27.65	43.50	15.85	
6	233.040	22.40	3.30	6.76	32.46	46.00	13.54	
7	300.000	26.78	3.90	6.78	37.46	46.00	8.54	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m VBA6106A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna B)

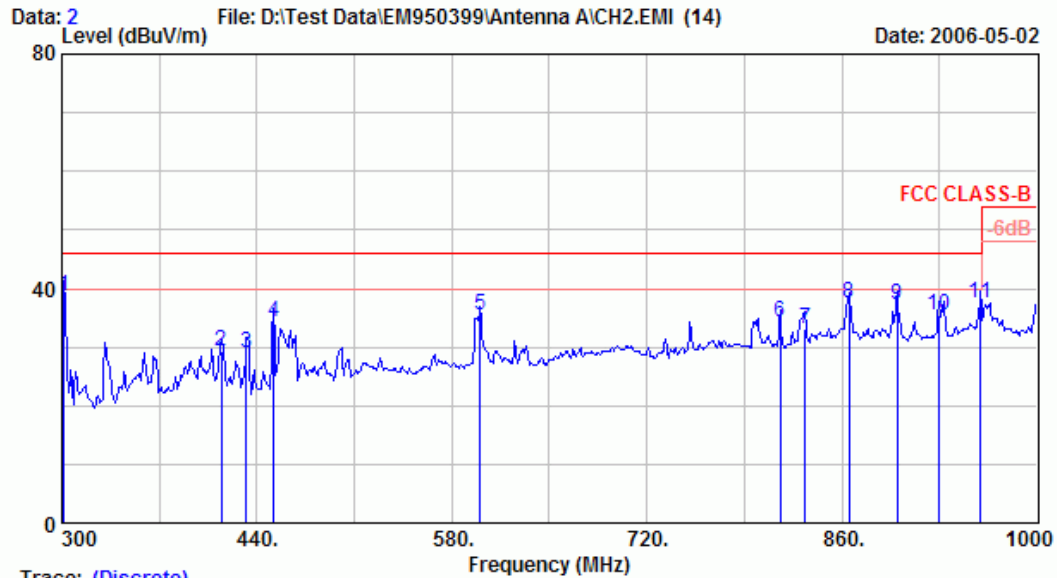
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	64.290	12.84	1.67	11.13	25.65	40.00	14.35	
2	109.380	17.94	2.20	6.51	26.65	43.50	16.85	
3	166.890	20.41	2.70	4.43	27.55	43.50	15.95	
4	199.830	22.86	3.00	11.72	37.58	43.50	5.92	
5	233.040	24.80	3.30	7.56	35.66	46.00	10.34	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. Frequency Range 300-1000MHz



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Trace: (Discrete)

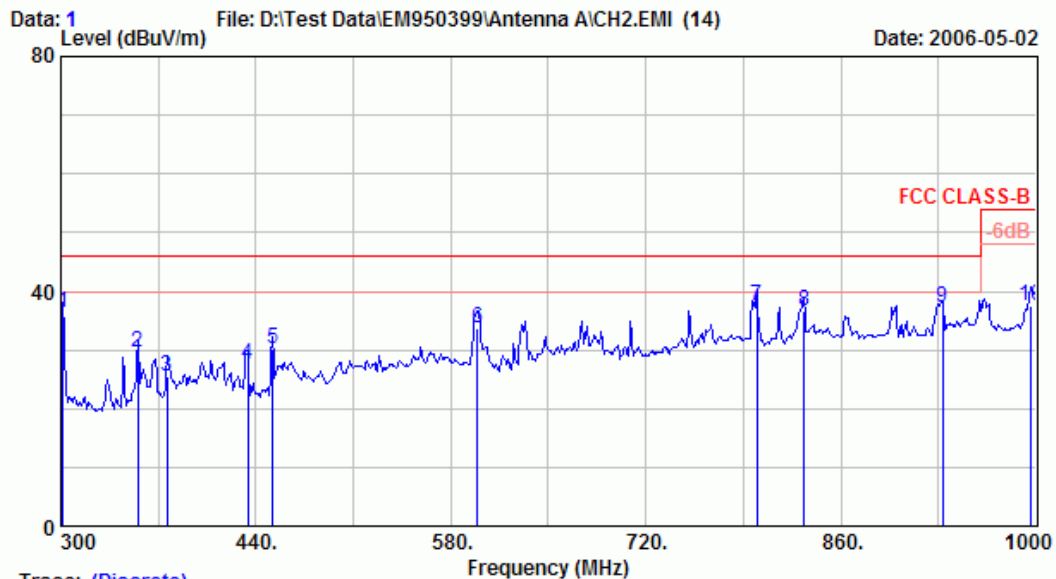
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	20.09	38.58	46.00	7.42	
2	414.800	16.99	5.10	7.21	29.29	46.00	16.71	
3	432.300	17.28	5.20	6.63	29.10	46.00	16.90	
4	451.900	17.65	5.40	11.12	34.17	46.00	11.83	
5	600.300	21.31	6.30	7.86	35.47	46.00	10.53	
6	815.900	23.85	7.00	3.33	34.19	46.00	11.81	
7	833.400	24.88	7.10	1.27	33.25	46.00	12.75	
8	864.900	26.00	7.20	4.27	37.47	46.00	8.53	
9	899.900	24.96	7.37	4.83	37.16	46.00	8.84	
10	929.300	24.92	7.50	3.17	35.59	46.00	10.41	
11	959.400	26.38	7.60	3.50	37.48	46.00	8.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

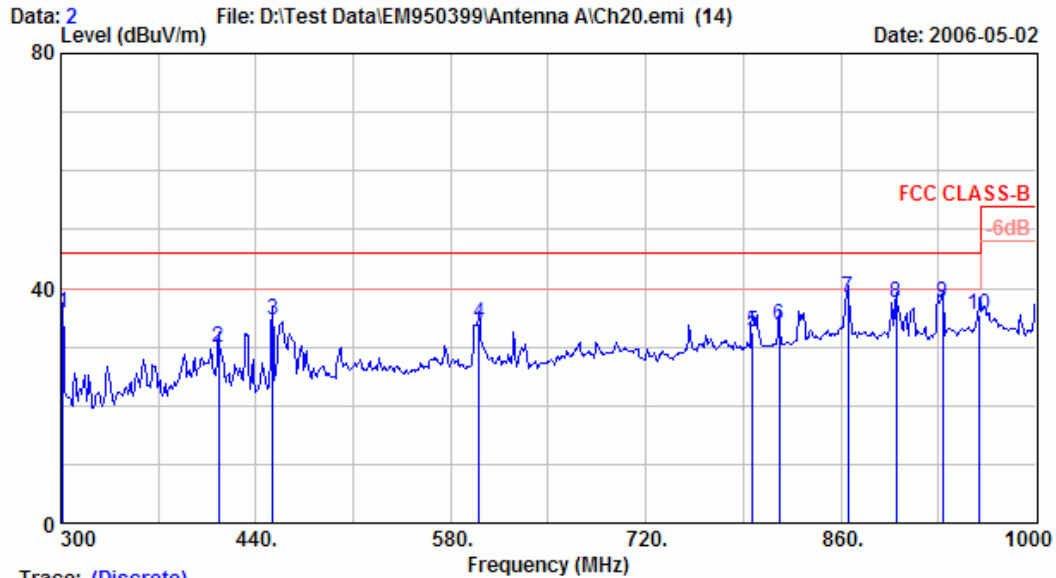
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	17.74	36.47	46.00	9.53	
2	355.300	15.84	4.37	9.38	29.59	46.00	16.41	
3	376.300	16.19	4.60	4.69	25.48	46.00	20.52	
4	434.400	17.21	5.24	5.02	27.47	46.00	18.53	
5	451.900	17.86	5.40	7.03	30.29	46.00	15.71	
6	598.900	21.62	6.30	5.65	33.57	46.00	12.43	
7	799.800	24.81	6.90	5.77	37.48	46.00	8.52	
8	833.400	26.22	7.10	3.26	36.58	46.00	9.42	
9	932.800	26.27	7.50	3.41	37.18	46.00	8.82	
10	995.800	26.19	7.71	3.68	37.58	54.00	16.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

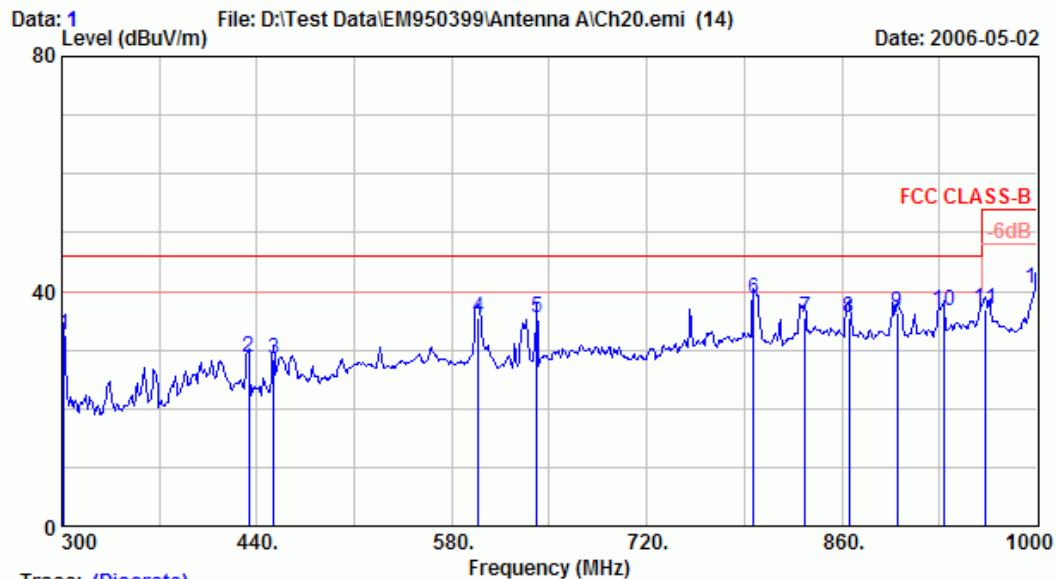
Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	17.20	35.69	46.00	10.31	
2	413.400	17.04	5.00	7.86	29.90	46.00	16.10	
3	451.900	17.65	5.40	11.53	34.58	46.00	11.42	
4	600.300	21.31	6.30	6.28	33.89	46.00	12.11	
5	796.300	24.04	6.90	1.63	32.57	46.00	13.43	
6	815.900	23.85	7.00	2.82	33.68	46.00	12.32	
7	864.900	26.00	7.20	5.26	38.46	46.00	7.54	
8	899.900	24.96	7.37	5.10	37.42	46.00	8.58	
9	932.800	25.23	7.50	4.65	37.38	46.00	8.62	
10	959.400	26.38	7.60	1.60	35.58	46.00	10.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

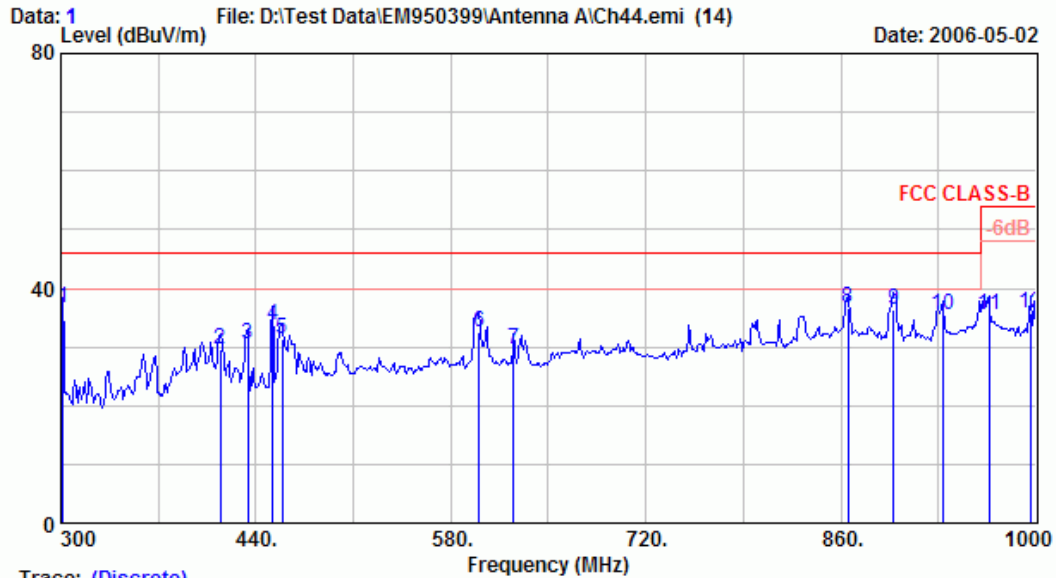
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	13.85	32.58	46.00	13.42	
2	434.400	17.21	5.24	6.14	28.59	46.00	17.41	
3	451.900	17.86	5.40	5.23	28.49	46.00	17.51	
4	598.900	21.62	6.30	7.67	35.59	46.00	10.41	
5	640.900	21.28	6.30	7.93	35.51	46.00	10.49	
6	796.300	25.04	6.90	6.63	38.57	46.00	7.43	
7	833.400	26.22	7.10	2.20	35.52	46.00	10.48	
8	864.900	25.38	7.20	3.01	35.59	46.00	10.41	
9	899.900	25.83	7.37	3.08	36.28	46.00	9.72	
10	932.800	26.27	7.50	2.82	36.59	46.00	9.41	
11	962.900	27.11	7.60	2.19	36.90	54.00	17.10	
12	1000.000	26.35	7.80	6.33	40.48	54.00	13.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

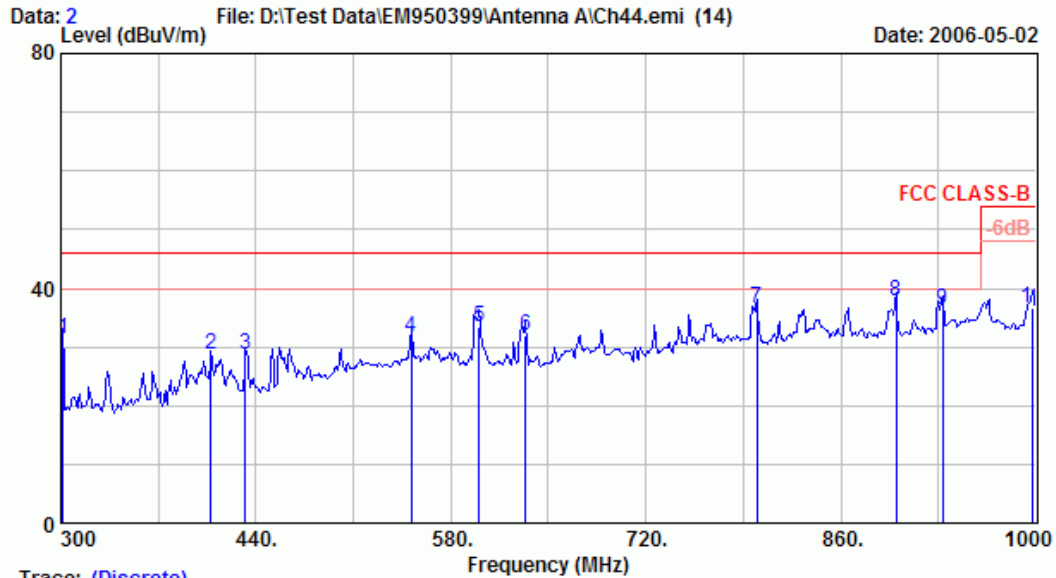
Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	18.01	36.50	46.00	9.50	
2	414.800	16.99	5.10	7.39	29.48	46.00	16.52	
3	434.400	17.36	5.24	7.98	30.57	46.00	15.43	
4	451.900	17.65	5.40	10.53	33.58	46.00	12.42	
5	458.900	17.83	5.60	8.07	31.50	46.00	14.50	
6	600.300	21.31	6.30	4.88	32.50	46.00	13.50	
7	624.800	21.30	6.20	2.07	29.57	46.00	16.43	
8	864.900	26.00	7.20	3.38	36.58	46.00	9.42	
9	897.800	24.98	7.30	4.20	36.48	46.00	9.52	
10	932.800	25.23	7.50	2.74	35.48	46.00	10.52	
11	966.400	26.89	7.70	0.99	35.58	54.00	18.42	
12	995.800	24.67	7.71	3.31	35.68	54.00	18.32	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

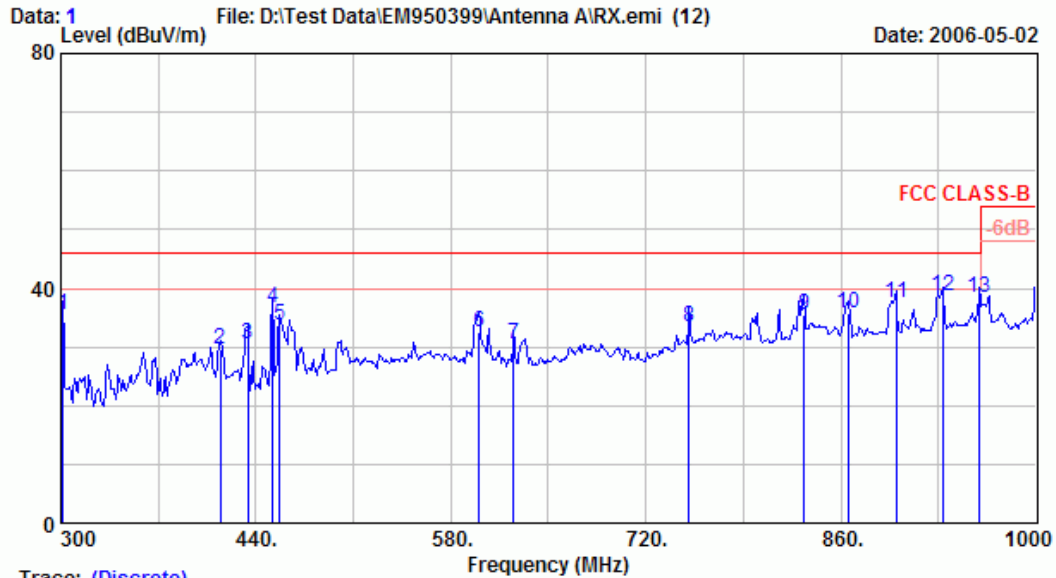
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	12.72	31.46	46.00	14.54	
2	407.800	17.15	4.90	6.52	28.58	46.00	17.42	
3	432.300	17.16	5.20	6.23	28.59	46.00	17.41	
4	551.300	21.57	6.80	3.39	31.75	46.00	14.25	
5	600.300	21.65	6.30	5.55	33.50	46.00	12.50	
6	633.900	21.12	6.30	4.62	32.04	46.00	13.96	
7	799.800	24.81	6.90	4.89	36.60	46.00	9.40	
8	899.900	25.83	7.37	4.73	37.93	46.00	8.07	
9	932.800	26.27	7.50	2.70	36.47	46.00	9.53	
10	997.900	26.27	7.80	2.52	36.59	54.00	17.41	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttenc@ttenc.com.tw



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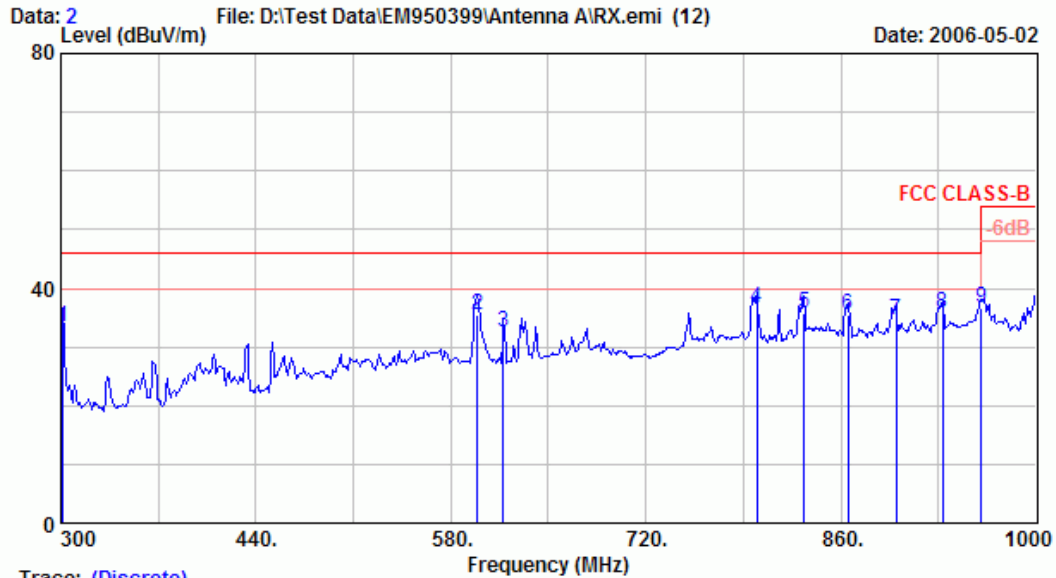
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	17.08	35.57	46.00	10.43	
2	414.800	16.99	5.10	7.49	29.58	46.00	16.42	
3	434.400	17.36	5.24	7.87	30.47	46.00	15.53	
4	451.900	17.65	5.40	13.48	36.53	46.00	9.47	
5	456.800	17.77	5.52	10.28	33.57	46.00	12.43	
6	600.300	21.31	6.30	4.98	32.59	46.00	13.41	
7	624.800	21.30	6.20	3.03	30.53	46.00	15.47	
8	750.800	23.35	6.70	3.45	33.50	46.00	12.50	
9	833.400	24.88	7.10	3.60	35.58	46.00	10.42	
10	864.900	26.00	7.20	2.42	35.62	46.00	10.38	
11	899.900	24.96	7.37	5.15	37.48	46.00	8.52	
12	932.800	25.23	7.50	5.85	38.59	46.00	7.41	
13	959.400	26.38	7.60	4.50	38.48	46.00	7.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

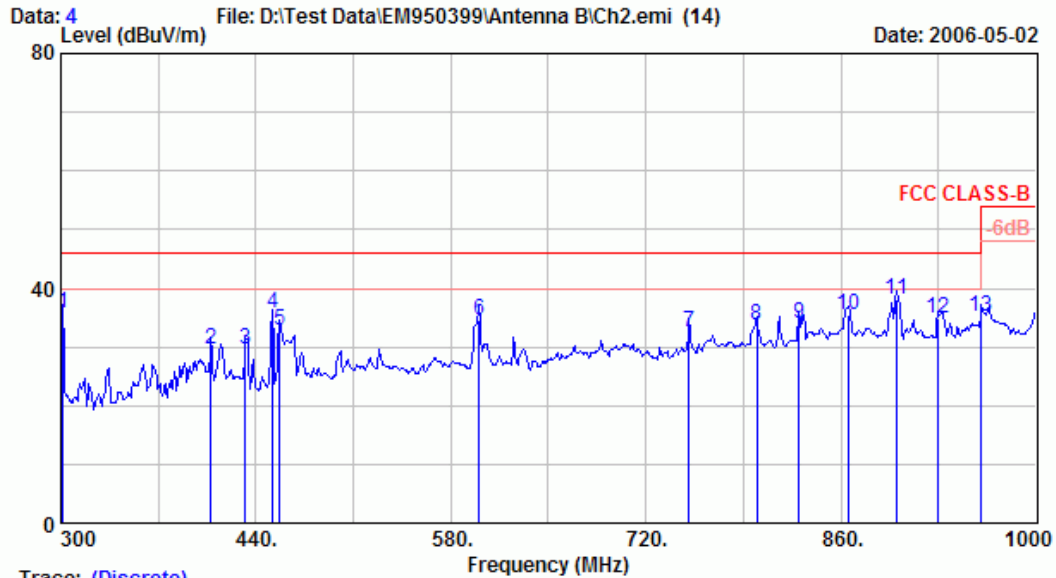
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	14.69	33.42	46.00	12.58	
2	598.900	21.62	6.30	7.63	35.55	46.00	10.45	
3	617.800	21.26	6.30	4.91	32.48	46.00	13.53	
4	799.800	24.81	6.90	4.95	36.66	46.00	9.34	
5	833.400	26.22	7.10	2.36	35.68	46.00	10.32	
6	864.900	25.38	7.20	3.01	35.59	46.00	10.41	
7	899.900	25.83	7.37	1.48	34.68	46.00	11.32	
8	932.800	26.27	7.50	1.86	35.63	46.00	10.37	
9	960.800	27.14	7.60	1.81	36.54	54.00	17.46	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

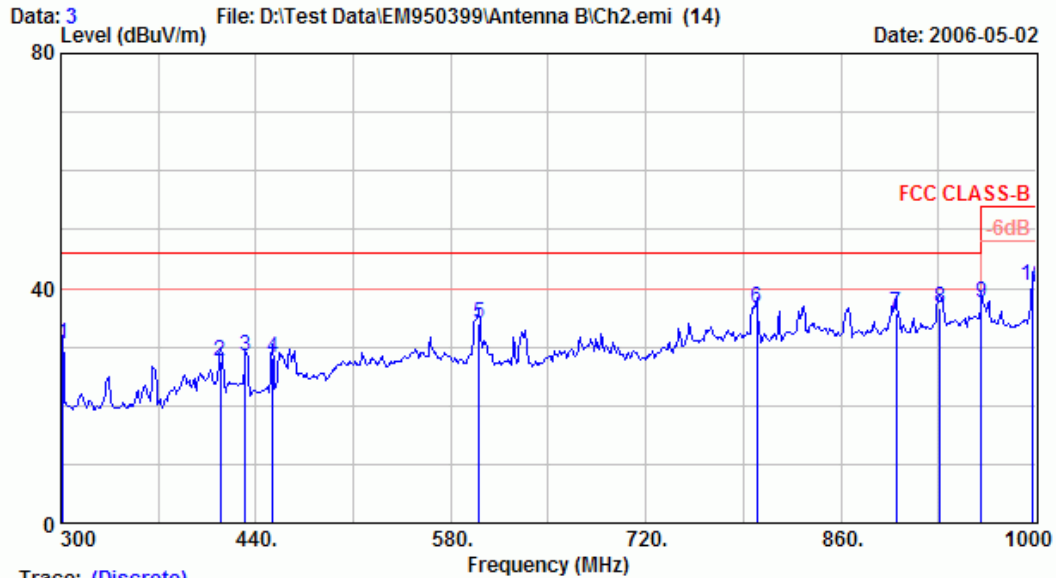
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	17.26	35.75	46.00	10.25	
2	407.800	17.28	4.90	7.48	29.66	46.00	16.34	
3	432.300	17.28	5.20	7.20	29.68	46.00	16.33	
4	451.900	17.65	5.40	12.59	35.64	46.00	10.36	
5	456.800	17.77	5.52	9.60	32.88	46.00	13.12	
6	600.300	21.31	6.30	6.94	34.55	46.00	11.45	
7	750.800	23.35	6.70	2.62	32.67	46.00	13.33	
8	799.800	24.12	6.90	2.81	33.83	46.00	12.17	
9	829.900	24.71	7.10	2.18	33.99	46.00	12.01	
10	864.900	26.00	7.20	2.38	35.58	46.00	10.42	
11	899.900	24.96	7.37	5.82	38.15	46.00	7.85	
12	929.300	24.92	7.50	2.31	34.73	46.00	11.27	
13	960.800	26.46	7.60	1.17	35.23	54.00	18.77	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

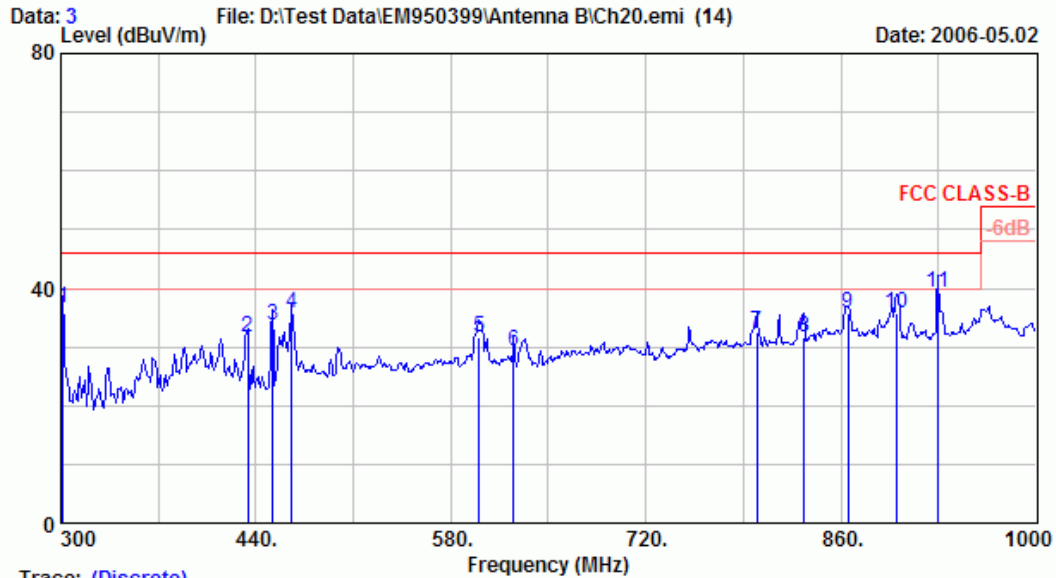
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2405.376MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	11.85	30.58	46.00	15.42	
2	414.800	16.97	5.10	5.50	27.57	46.00	18.43	
3	432.300	17.16	5.20	6.00	28.36	46.00	17.64	
4	451.900	17.86	5.40	4.91	28.18	46.00	17.82	
5	600.300	21.65	6.30	5.91	33.86	46.00	12.14	
6	799.800	24.81	6.90	4.96	36.67	46.00	9.33	
7	899.900	25.83	7.37	2.59	35.79	46.00	10.21	
8	931.400	26.17	7.50	3.01	36.68	46.00	9.32	
9	960.800	27.14	7.60	2.92	37.66	54.00	16.34	
10	997.900	26.27	7.80	6.27	40.35	54.00	13.65	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

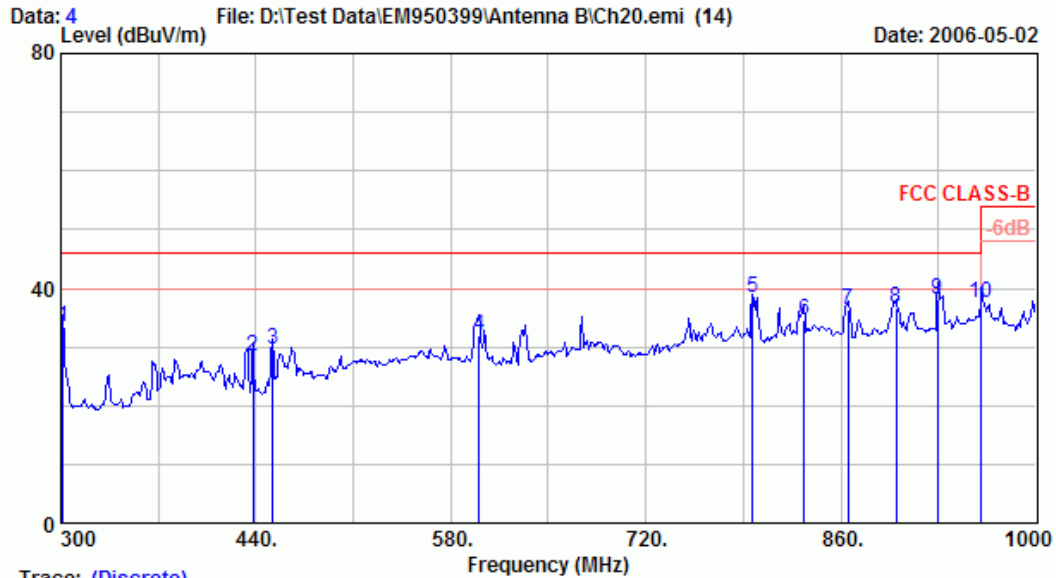
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Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	18.07	36.56	46.00	9.44	
2	434.400	17.36	5.24	8.97	31.56	46.00	14.44	
3	451.900	17.65	5.40	10.69	33.74	46.00	12.26	
4	465.900	18.15	5.80	11.73	35.68	46.00	10.32	
5	600.300	21.31	6.30	4.11	31.72	46.00	14.28	
6	624.800	21.30	6.20	1.83	29.33	46.00	16.68	
7	799.800	24.12	6.90	1.61	32.63	46.00	13.37	
8	833.400	24.88	7.10	-0.42	31.56	46.00	14.44	
9	864.900	26.00	7.20	2.58	35.78	46.00	10.22	
10	899.900	24.96	7.37	3.31	35.64	46.00	10.36	
11	929.300	24.92	7.50	6.91	39.33	46.00	6.67	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

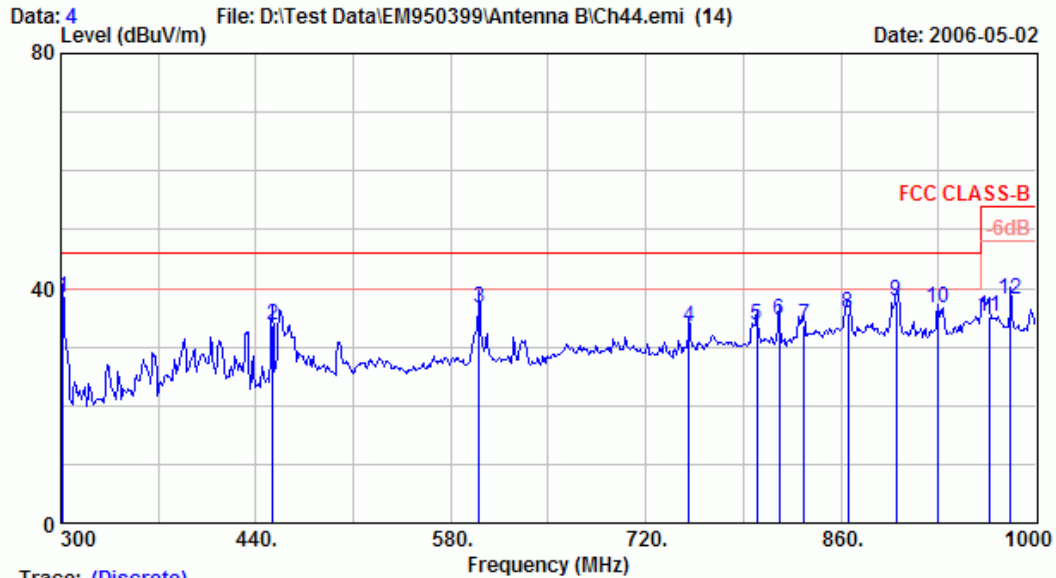
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX 2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	14.54	33.28	46.00	12.72	
2	437.900	17.32	5.30	5.86	28.48	46.00	17.52	
3	451.900	17.86	5.40	6.22	29.48	46.00	16.52	
4	600.300	21.65	6.30	3.91	31.86	46.00	14.14	
5	796.300	25.04	6.90	6.55	38.49	46.00	7.51	
6	833.400	26.22	7.10	1.25	34.57	46.00	11.43	
7	864.900	25.38	7.20	3.75	36.33	46.00	9.67	
8	899.900	25.83	7.37	3.39	36.59	46.00	9.41	
9	929.300	26.01	7.50	4.63	38.15	46.00	7.85	
10	960.800	27.14	7.60	2.84	37.58	54.00	16.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

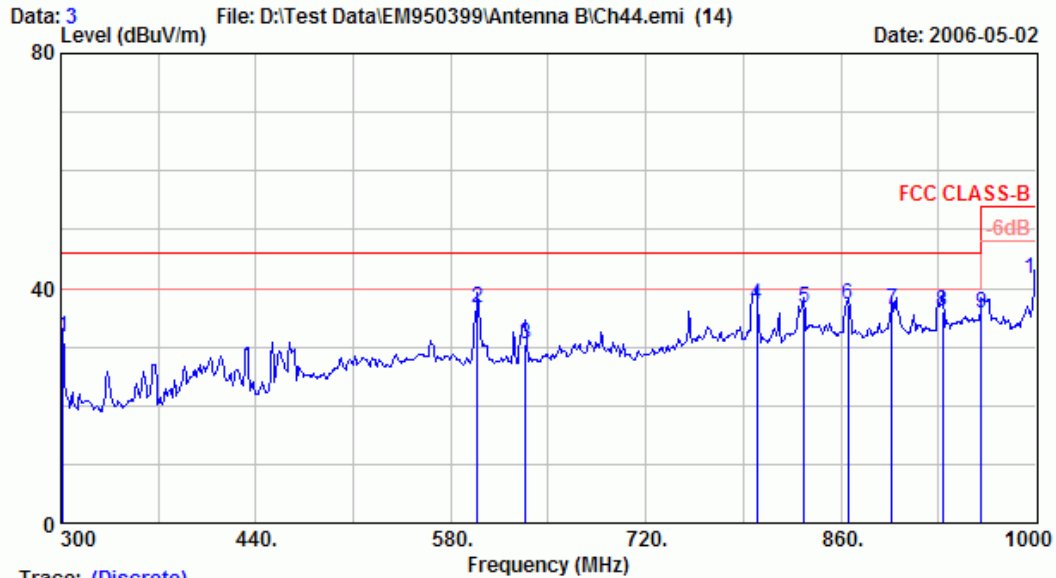
Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	19.79	38.29	46.00	7.72	
2	451.900	17.65	5.40	10.68	33.73	46.00	12.27	
3	600.300	21.31	6.30	9.02	36.64	46.00	9.36	
4	750.800	23.35	6.70	3.46	33.51	46.00	12.49	
5	799.800	24.12	6.90	2.67	33.69	46.00	12.31	
6	815.900	23.85	7.00	3.82	34.67	46.00	11.33	
7	833.400	24.88	7.10	1.60	33.58	46.00	12.42	
8	864.900	26.00	7.20	2.42	35.62	46.00	10.38	
9	899.900	24.96	7.37	5.35	37.67	46.00	8.33	
10	929.300	24.92	7.50	4.11	36.53	46.00	9.47	
11	966.400	26.89	7.70	0.62	35.21	54.00	18.79	
12	981.800	25.63	7.70	4.79	38.13	54.00	15.87	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

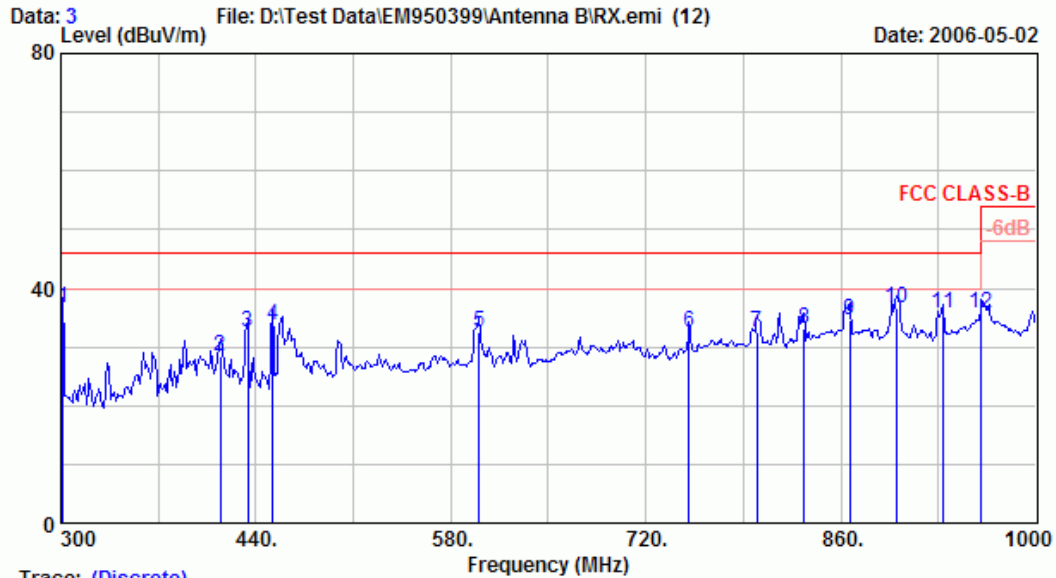
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : TX2448.384MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	12.85	31.58	46.00	14.42	
2	598.900	21.62	6.30	8.74	36.66	46.00	9.34	
3	633.900	21.12	6.30	3.11	30.53	46.00	15.47	
4	799.800	24.81	6.90	5.52	37.23	46.00	8.77	
5	833.400	26.22	7.10	3.32	36.64	46.00	9.36	
6	864.900	25.38	7.20	4.65	37.23	46.00	8.77	
7	896.400	25.88	7.30	3.04	36.21	46.00	9.79	
8	932.800	26.27	7.50	2.39	36.16	46.00	9.84	
9	960.800	27.14	7.60	1.04	35.78	54.00	18.22	
10	1000.000	26.35	7.80	7.43	41.58	54.00	12.42	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

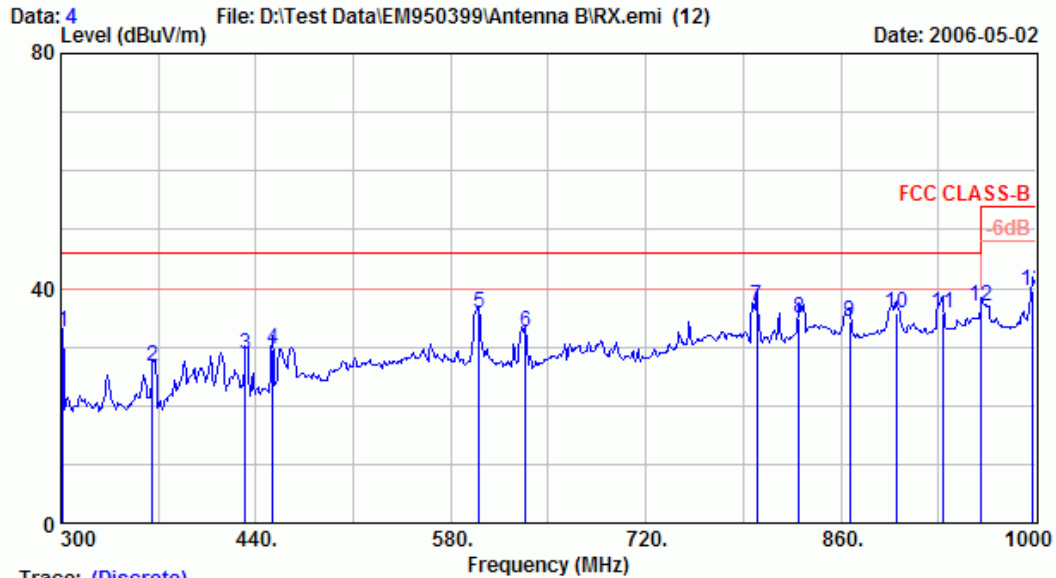
Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.59	3.90	18.09	36.58	46.00	9.42	
2	414.800	16.99	5.10	6.48	28.57	46.00	17.43	
3	434.400	17.36	5.24	10.08	32.67	46.00	13.33	
4	451.900	17.65	5.40	10.53	33.58	46.00	12.43	
5	600.300	21.31	6.30	4.93	32.55	46.00	13.45	
6	750.800	23.35	6.70	2.53	32.58	46.00	13.42	
7	799.800	24.12	6.90	1.56	32.58	46.00	13.42	
8	833.400	24.88	7.10	1.27	33.25	46.00	12.75	
9	866.300	25.95	7.20	1.49	34.64	46.00	11.36	
10	899.900	24.96	7.37	4.31	36.64	46.00	9.36	
11	932.800	25.23	7.50	2.94	35.67	46.00	10.33	
12	960.800	26.46	7.60	1.59	35.66	54.00	18.34	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m UHALP9108-A(0139) Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface
Power Rating : DC 6V M/N:FDQ02T
Test Mode : RX (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	301.400	14.83	3.90	13.84	32.57	46.00	13.43	
2	365.800	15.82	4.50	6.25	26.57	46.00	19.43	
3	432.300	17.16	5.20	6.31	28.67	46.00	17.33	
4	451.900	17.86	5.40	6.28	29.54	46.00	16.46	
5	600.300	21.65	6.30	7.91	35.86	46.00	10.14	
6	633.900	21.12	6.30	5.16	32.58	46.00	13.42	
7	799.800	24.81	6.90	5.34	37.05	46.00	8.95	
8	829.900	25.94	7.10	1.87	34.91	46.00	11.09	
9	866.300	25.32	7.20	1.67	34.19	46.00	11.81	
10	899.900	25.83	7.37	2.49	35.69	46.00	10.31	
11	932.800	26.27	7.50	2.02	35.79	46.00	10.21	
12	960.800	27.14	7.60	2.10	36.84	54.00	17.16	
13	997.900	26.27	7.80	5.37	39.44	54.00	14.56	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.3. Frequency Range Above 1GHz

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1104.160	25.25	4.40	12.97	42.62	74.00	31.38	Peak
1199.920	25.29	4.59	14.66	44.53	74.00	29.47	Peak
1297.360	25.33	4.83	11.18	41.33	74.00	32.67	Peak
1398.160	25.37	5.14	11.73	42.23	74.00	31.77	Peak
1599.760	25.95	6.14	10.18	42.27	74.00	31.73	Peak
1796.320	26.91	6.92	10.24	44.07	74.00	29.93	Peak
2392.720	28.61	6.34	11.20	46.14	74.00	27.86	Peak
4814.740	33.64	9.14	12.32	55.10	74.00	18.90	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1036.960	25.22	4.26	14.44	43.91	74.00	30.09	Peak
1196.560	25.29	4.58	15.84	45.71	74.00	28.29	Peak
1594.720	25.90	6.12	11.23	43.26	74.00	30.74	Peak
1801.360	26.94	6.92	16.41	50.26	74.00	23.74	Peak
2392.720	28.61	6.34	16.01	50.95	74.00	23.05	Peak
4806.280	33.61	9.14	16.16	58.92	74.00	15.08	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1104.160	25.25	4.40	8.22	37.87	54.00	16.13	Average
1199.920	25.29	4.59	10.26	40.14	54.00	13.86	Average
1297.360	25.33	4.83	7.44	37.59	54.00	16.41	Average
1398.160	25.37	5.14	7.86	38.37	54.00	15.63	Average
1599.760	25.95	6.14	6.39	38.48	54.00	15.52	Average
1796.320	26.91	6.92	6.82	40.65	54.00	13.35	Average
2392.720	28.61	6.34	7.54	42.49	54.00	11.51	Average
4814.740	33.64	9.14	6.79	49.57	54.00	4.43	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1036.960	25.22	4.26	10.12	39.59	54.00	14.41	Average
1196.560	25.29	4.58	12.59	42.46	54.00	11.54	Average
1594.720	25.90	6.12	8.10	40.13	54.00	13.87	Average
1801.360	26.94	6.92	11.53	45.38	54.00	8.62	Average
2392.720	28.61	6.34	12.29	47.24	54.00	6.76	Average
4806.280	33.61	9.14	7.71	50.47	54.00	3.53	Average

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Transmitting Mode, Channel: 20, Frequency: 2423.808MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	15.94	45.32	74.00	28.68	Peak
1040.320	25.22	4.26	13.55	43.03	74.00	30.97	Peak
1196.560	25.29	4.58	16.79	46.66	74.00	27.34	Peak
1502.320	25.42	5.43	10.94	41.79	74.00	32.21	Peak
1599.760	25.95	6.14	10.18	42.27	74.00	31.73	Peak
2389.360	28.59	6.34	12.42	47.35	74.00	26.65	Peak
4848.580	33.71	9.15	10.68	53.55	74.00	20.45	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	16.03	45.41	74.00	28.59	Peak
1040.320	25.22	4.26	13.65	43.13	74.00	30.87	Peak
1196.560	25.29	4.58	15.86	45.73	74.00	28.27	Peak
1305.760	25.33	4.85	12.50	42.69	74.00	31.31	Peak
1502.320	25.42	5.43	11.64	42.49	74.00	31.51	Peak
1792.960	26.89	6.94	16.70	50.53	74.00	23.47	Peak
2389.360	28.59	6.34	15.47	50.40	74.00	23.60	Peak
4848.580	33.71	9.15	15.39	58.26	74.00	15.74	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	12.09	41.48	54.00	12.52	Average
1040.320	25.22	4.26	9.09	38.57	54.00	15.43	Average
1196.560	25.29	4.58	12.61	42.48	54.00	11.52	Average
1502.320	25.42	5.43	6.72	37.57	54.00	16.43	Average
1599.760	25.95	6.14	6.74	38.83	54.00	15.17	Average
2389.360	28.59	6.34	7.07	42.00	54.00	12.00	Average
4848.580	33.71	9.15	6.73	49.60	54.00	4.40	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	12.16	41.55	54.00	12.45	Average
1040.320	25.22	4.26	10.11	39.60	54.00	14.40	Average
1196.560	25.29	4.58	11.88	41.75	54.00	12.25	Average
1305.760	25.33	4.85	8.29	38.47	54.00	15.53	Average
1502.320	25.42	5.43	7.73	38.58	54.00	15.42	Average
1792.960	26.89	6.94	12.76	46.59	54.00	7.41	Average
2389.360	28.59	6.34	11.00	45.93	54.00	8.07	Average
4848.580	33.71	9.15	8.79	51.65	54.00	2.35	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	16.39	46.26	74.00	27.74	Peak
1502.320	25.42	5.43	10.34	41.19	74.00	32.81	Peak
1594.720	25.90	6.12	11.44	43.47	74.00	30.53	Peak
2389.360	28.59	6.34	12.49	47.42	74.00	26.58	Peak
4899.340	33.85	9.16	12.01	55.03	74.00	18.97	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	13.07	42.48	74.00	31.52	Peak
1196.560	25.29	4.58	16.14	46.01	74.00	27.99	Peak
1502.320	25.42	5.43	11.73	42.58	74.00	31.42	Peak
1801.360	26.94	6.92	14.88	48.73	74.00	25.27	Peak
2392.720	28.61	6.34	13.49	48.43	74.00	25.57	Peak
4899.340	33.85	9.16	16.28	59.30	74.00	14.70	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	12.61	42.48	54.00	11.52	Average
1502.320	25.42	5.43	7.71	38.57	54.00	15.43	Average
1594.720	25.90	6.12	7.54	39.57	54.00	14.43	Average
2389.360	28.59	6.34	7.76	42.69	54.00	11.31	Average
4899.340	33.85	9.16	6.62	49.64	54.00	4.36	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	9.16	38.57	54.00	15.43	Average
1196.560	25.29	4.58	11.98	41.85	54.00	12.15	Average
1502.320	25.42	5.43	7.74	38.60	54.00	15.40	Average
1801.360	26.94	6.92	9.75	43.60	54.00	10.40	Average
2392.720	28.61	6.34	8.84	43.79	54.00	10.21	Average
4899.340	33.85	9.16	7.30	50.32	54.00	3.68	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Receiving Mode, Channel: 20, Frequency: 2423.808MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	15.52	44.90	74.00	29.10	Peak
1196.560	25.29	4.58	15.95	45.82	74.00	28.18	Peak
1398.160	25.37	5.14	12.63	43.13	74.00	30.87	Peak
1801.360	26.94	6.92	9.41	43.26	74.00	30.74	Peak
2392.720	28.61	6.34	11.73	46.67	74.00	27.33	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	12.91	42.32	74.00	31.68	Peak
1199.920	25.29	4.59	15.25	45.12	74.00	28.88	Peak
1502.320	25.42	5.43	12.65	43.50	74.00	30.50	Peak
1792.960	26.89	6.94	16.05	49.88	74.00	24.12	Peak
2397.760	28.62	6.35	13.12	48.09	74.00	25.91	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	11.16	40.55	54.00	13.45	Average
1196.560	25.29	4.58	11.61	41.48	54.00	12.52	Average
1398.160	25.37	5.14	9.08	39.58	54.00	14.42	Average
1801.360	26.94	6.92	5.83	39.68	54.00	14.32	Average
2392.720	28.61	6.34	7.75	42.69	54.00	11.31	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	8.15	37.56	54.00	16.44	Average
1199.920	25.29	4.59	10.67	40.54	54.00	13.46	Average
1502.320	25.42	5.43	8.72	39.58	54.00	14.42	Average
1792.960	26.89	6.94	12.86	46.69	54.00	7.31	Average
2397.760	28.62	6.35	8.60	43.56	54.00	10.44	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1031.920	25.22	4.24	14.71	44.17	74.00	29.83	Peak
1196.560	25.29	4.58	15.36	45.23	74.00	28.77	Peak
1398.160	25.37	5.14	12.47	42.97	74.00	31.03	Peak
1502.320	25.42	5.43	11.10	41.95	74.00	32.05	Peak
1599.760	25.95	6.14	12.15	44.24	74.00	29.76	Peak
1801.360	26.94	6.92	14.03	47.88	74.00	26.12	Peak
2392.720	28.61	6.34	11.83	46.77	74.00	27.23	Peak
4814.740	33.64	9.14	16.84	59.62	74.00	14.38	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	12.01	41.42	74.00	32.58	Peak
1107.520	25.25	4.40	11.81	41.46	74.00	32.54	Peak
1199.920	25.29	4.59	13.76	43.63	74.00	30.37	Peak
1502.320	25.42	5.43	12.22	43.07	74.00	30.93	Peak
1599.760	25.95	6.14	10.87	42.96	74.00	31.04	Peak
1801.360	26.94	6.92	12.01	45.86	74.00	28.14	Peak
2392.720	28.61	6.34	14.81	49.75	74.00	24.25	Peak
4814.740	33.64	9.14	16.48	59.26	74.00	14.74	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1031.920	25.22	4.24	12.01	41.48	54.00	12.53	Average
1196.560	25.29	4.58	11.47	41.34	54.00	12.66	Average
1398.160	25.37	5.14	9.08	39.59	54.00	14.42	Average
1502.320	25.42	5.43	8.38	39.23	54.00	14.77	Average
1599.760	25.95	6.14	8.37	40.46	54.00	13.54	Average
1801.360	26.94	6.92	10.39	44.24	54.00	9.76	Average
2392.720	28.61	6.34	7.84	42.79	54.00	11.21	Average
4814.740	33.64	9.14	8.62	51.41	54.00	2.60	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1011.760	25.21	4.21	9.28	38.69	54.00	15.31	Average
1107.520	25.25	4.40	9.85	39.50	54.00	14.50	Average
1199.920	25.29	4.59	10.56	40.43	54.00	13.57	Average
1502.320	25.42	5.43	9.26	40.12	54.00	13.88	Average
1599.760	25.95	6.14	7.67	39.77	54.00	14.23	Average
1801.360	26.94	6.92	8.90	42.75	54.00	11.25	Average
2392.720	28.61	6.34	9.29	44.24	54.00	9.76	Average
4814.740	33.64	9.14	8.56	51.34	54.00	2.66	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 20, Frequency: 2423.808MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1036.960	25.22	4.26	12.95	42.42	74.00	31.58	Peak
1196.560	25.29	4.58	17.60	47.47	74.00	26.53	Peak
1502.320	25.42	5.43	10.64	41.49	74.00	32.51	Peak
1594.720	25.90	6.12	12.46	44.49	74.00	29.51	Peak
1792.960	26.89	6.94	12.68	46.51	74.00	27.49	Peak
2322.160	28.46	6.25	10.83	45.54	74.00	28.46	Peak
2392.720	28.61	6.34	12.10	47.04	74.00	26.96	Peak
4848.580	33.71	9.15	17.83	60.70	74.00	13.30	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	14.47	44.34	74.00	29.66	Peak
1502.320	25.42	5.43	11.94	42.79	74.00	31.21	Peak
1796.320	26.91	6.92	12.11	45.94	74.00	28.06	Peak
2392.720	28.61	6.34	12.80	47.74	74.00	26.26	Peak
4848.580	33.71	9.15	15.81	58.68	74.00	15.32	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1036.960	25.22	4.26	10.10	39.58	54.00	14.42	Average
1196.560	25.29	4.58	13.43	43.30	54.00	10.70	Average
1502.320	25.42	5.43	8.34	39.19	54.00	14.81	Average
1594.720	25.90	6.12	9.71	41.74	54.00	12.26	Average
1792.960	26.89	6.94	8.76	42.59	54.00	11.41	Average
2322.160	28.46	6.25	7.94	42.65	54.00	11.35	Average
2392.720	28.61	6.34	9.38	44.33	54.00	9.67	Average
4848.580	33.71	9.15	8.66	51.53	54.00	2.47	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	10.76	40.63	54.00	13.37	Average
1502.320	25.42	5.43	8.70	39.56	54.00	14.44	Average
1796.320	26.91	6.92	7.64	41.47	54.00	12.53	Average
2392.720	28.61	6.34	9.38	44.33	54.00	9.67	Average
4848.580	33.71	9.15	8.18	51.05	54.00	2.95	Average

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	14.03	43.41	74.00	30.59	Peak
1196.560	25.29	4.58	15.74	45.61	74.00	28.39	Peak
1401.520	25.37	5.14	11.73	42.24	74.00	31.76	Peak
1599.760	25.95	6.14	11.20	43.29	74.00	30.71	Peak
1759.360	26.72	7.12	10.43	44.28	74.00	29.72	Peak
2389.360	28.59	6.34	12.12	47.05	74.00	26.95	Peak
4964.200	33.99	9.12	13.39	56.51	74.00	17.49	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1000.000	25.20	4.18	17.37	46.75	74.00	27.25	Peak
1199.920	25.29	4.59	18.00	47.87	74.00	26.13	Peak
1594.720	25.90	6.12	16.60	48.63	74.00	25.37	Peak
1762.720	26.74	7.12	12.91	46.77	74.00	27.23	Peak
1796.320	26.91	6.92	14.62	48.45	74.00	25.55	Peak
2296.960	28.42	6.23	15.94	50.59	74.00	23.41	Peak
4964.200	33.99	9.12	7.01	50.13	74.00	23.88	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1003.360	25.20	4.18	12.47	41.86	54.00	12.14	Average
1196.560	25.29	4.58	12.82	42.68	54.00	11.32	Average
1401.520	25.37	5.14	9.21	39.72	54.00	14.28	Average
1599.760	25.95	6.14	7.58	39.67	54.00	14.33	Average
1759.360	26.72	7.12	6.53	40.38	54.00	13.63	Average
2389.360	28.59	6.34	8.76	43.69	54.00	10.31	Average
4964.200	33.99	9.12	6.87	49.99	54.00	4.01	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1000.000	25.20	4.18	13.30	42.68	54.00	11.33	Average
1199.920	25.29	4.59	14.61	44.48	54.00	9.52	Average
1594.720	25.90	6.12	11.67	43.70	54.00	10.30	Average
1762.720	26.74	7.12	9.92	43.78	54.00	10.22	Average
1796.320	26.91	6.92	11.75	45.58	54.00	8.42	Average
2296.960	28.42	6.23	12.92	47.57	54.00	6.43	Average
4964.200	33.99	9.12	7.66	50.78	54.00	3.22	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test : May 02, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Receiving Mode, Channel: 20, Frequency: 2423.808MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	16.58	46.45	74.00	27.55	Peak
2392.720	28.61	6.34	11.43	46.37	74.00	27.63	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1040.320	25.22	4.26	13.36	42.84	74.00	31.16	Peak
1099.120	25.25	4.39	12.77	42.41	74.00	31.59	Peak
1196.560	25.29	4.58	15.63	45.50	74.00	28.50	Peak
1502.320	25.42	5.43	12.33	43.18	74.00	30.82	Peak
1801.360	26.94	6.92	14.16	48.01	74.00	25.99	Peak
2392.720	28.61	6.34	14.69	49.63	74.00	24.37	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1196.560	25.29	4.58	12.70	42.57	54.00	11.43	Average
2392.720	28.61	6.34	8.07	43.02	54.00	10.98	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1040.320	25.22	4.26	9.89	39.37	54.00	14.63	Average
1099.120	25.25	4.39	8.93	38.57	54.00	15.43	Average
1196.560	25.29	4.58	10.37	40.24	54.00	13.76	Average
1502.320	25.42	5.43	8.72	39.57	54.00	14.43	Average
1801.360	26.94	6.92	10.39	44.25	54.00	9.75	Average
2392.720	28.61	6.34	10.20	45.15	54.00	8.85	Average

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

3.6.4. Restricted Bands Measurement Results

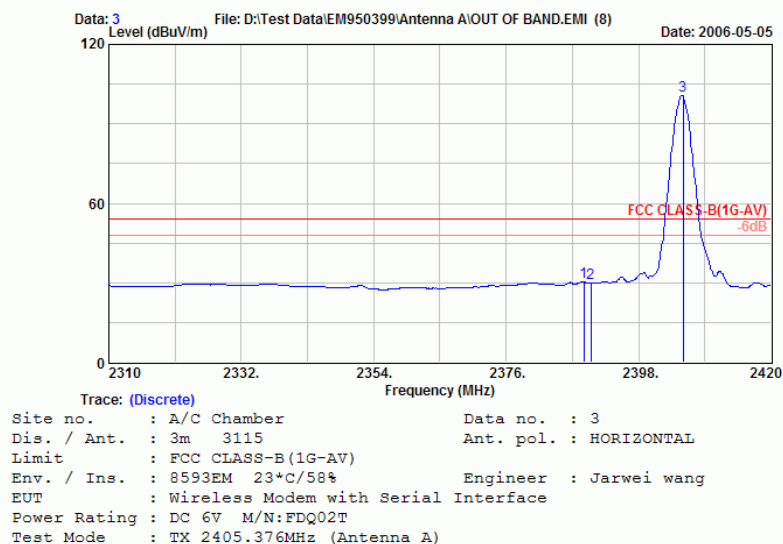
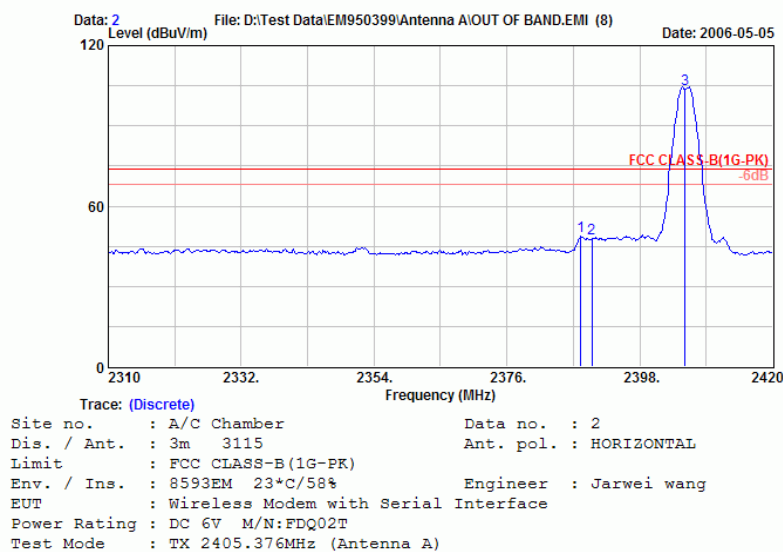
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2388.260	28.59	6.34	13.69	48.62	74.00	25.38
Average *	2388.870	28.59	6.34	-4.72	30.21	54.00	23.79

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



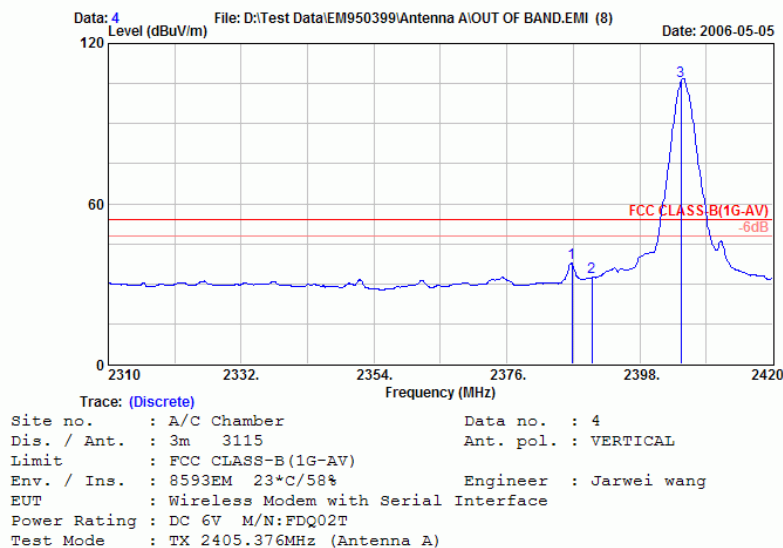
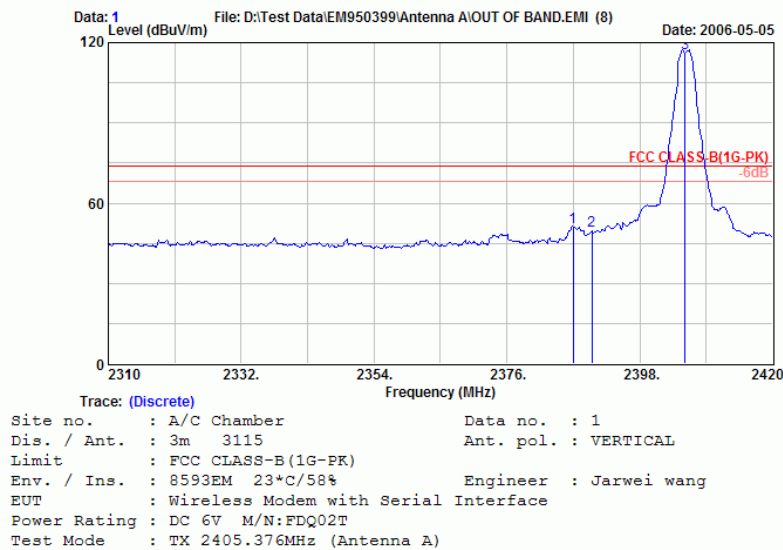
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.000	28.59	6.33	16.25	51.17	74.00	22.83
Average *	2386.780	28.59	6.33	2.72	37.64	54.00	16.36

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



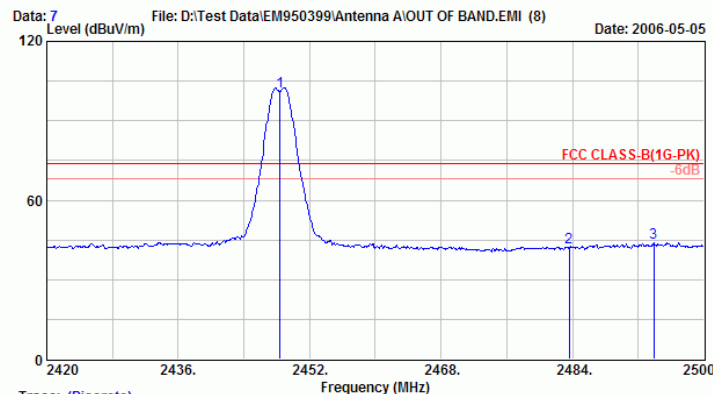
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type A

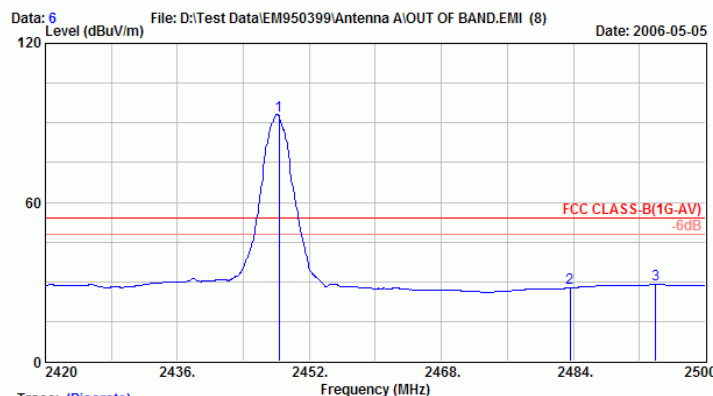
Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2493.920	28.79	6.46	8.57	43.82	74.00	30.18
Average *	2494.000	28.79	6.46	-6.41	28.84	54.00	25.16

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
 EUT : Wireless Modem with Serial Interface
 Power Rating : DC 6V M/N:FDQ02T
 Test Mode : TX 2448.384MHz (Antenna A)



Site no. : A/C Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 23°C/58% Engineer : Jarwei wang
 EUT : Wireless Modem with Serial Interface
 Power Rating : DC 6V M/N:FDQ02T
 Test Mode : TX 2448.384MHz (Antenna A)

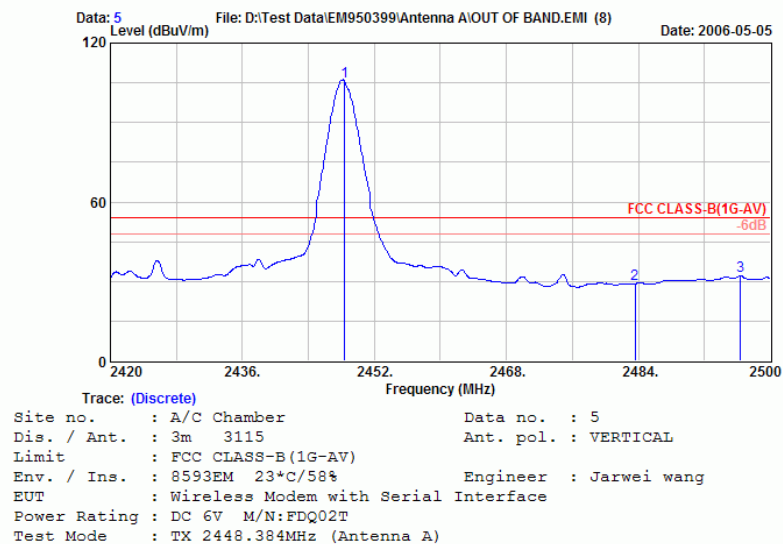
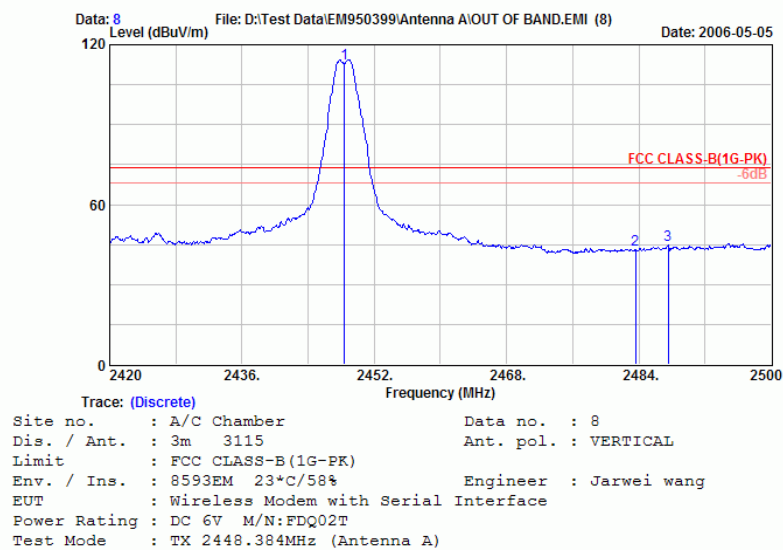
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface
with Antenna Type A Humidity : 58%

Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2487.520	28.77	6.45	9.70	44.92	74.00	29.08
Average *	2496.400	28.80	6.46	-3.36	31.90	54.00	22.10

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Date of Test : May 05, 2006Temperature : 23°C

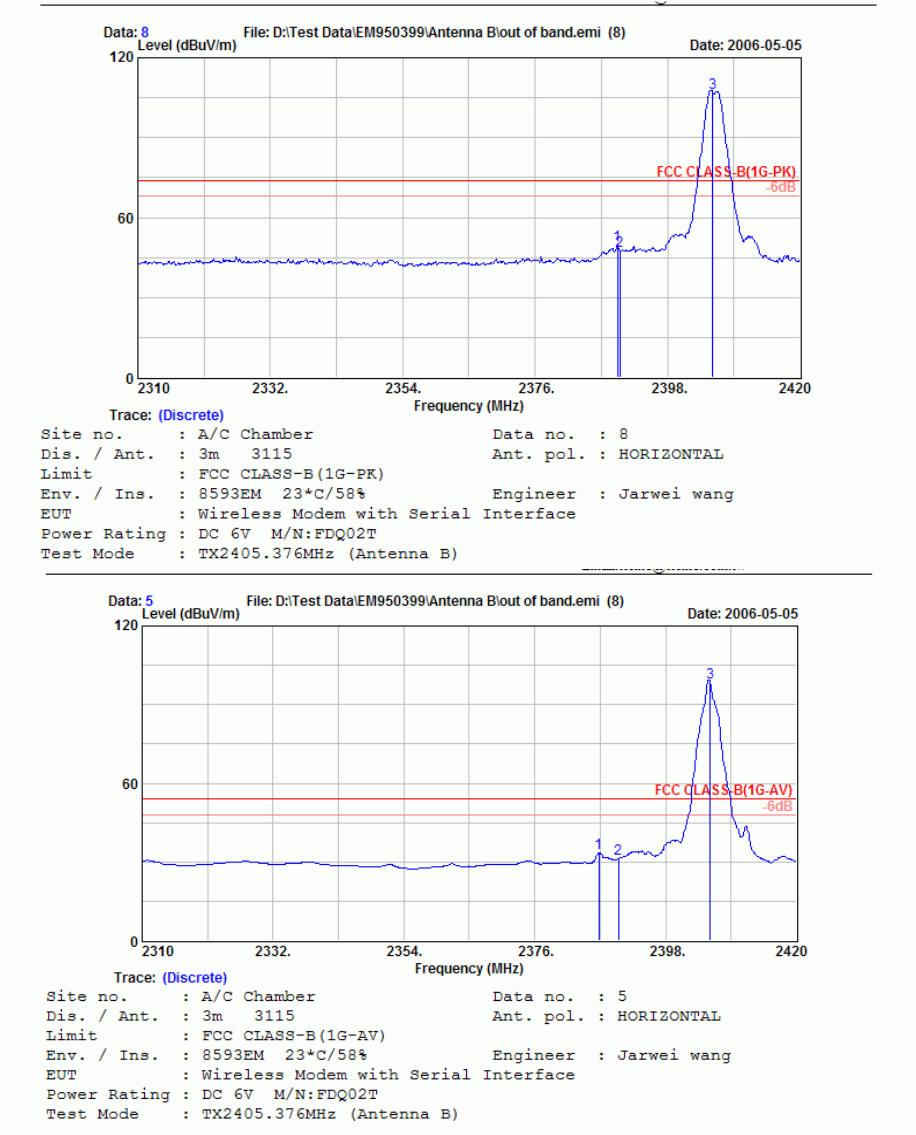
EUT : Wireless Modem with Serial InterfaceHumidity : 58%

with Antenna Type B

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.640	28.59	6.34	14.70	49.63	74.00	24.37
Average *	2386.780	28.59	6.33	-1.44	33.48	54.00	20.52

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



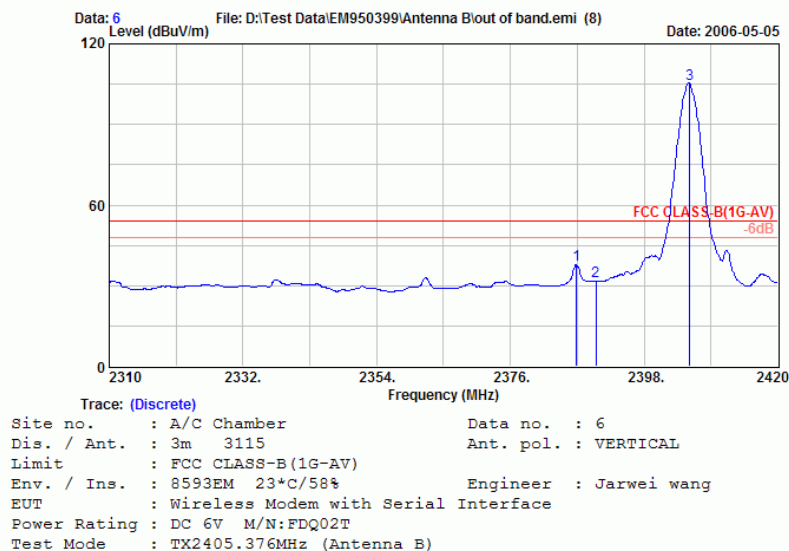
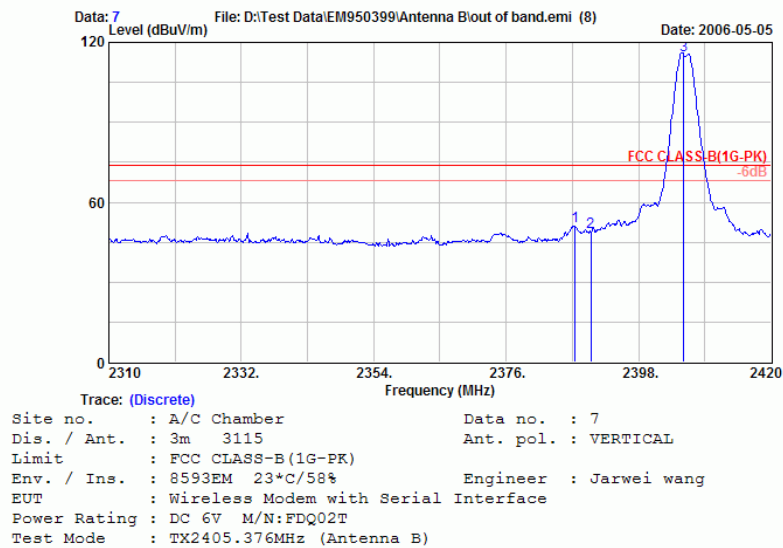
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.440	28.59	6.33	16.12	51.04	74.00	22.96
Average *	2386.890	28.59	6.33	2.93	37.85	54.00	16.15

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. “*” The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



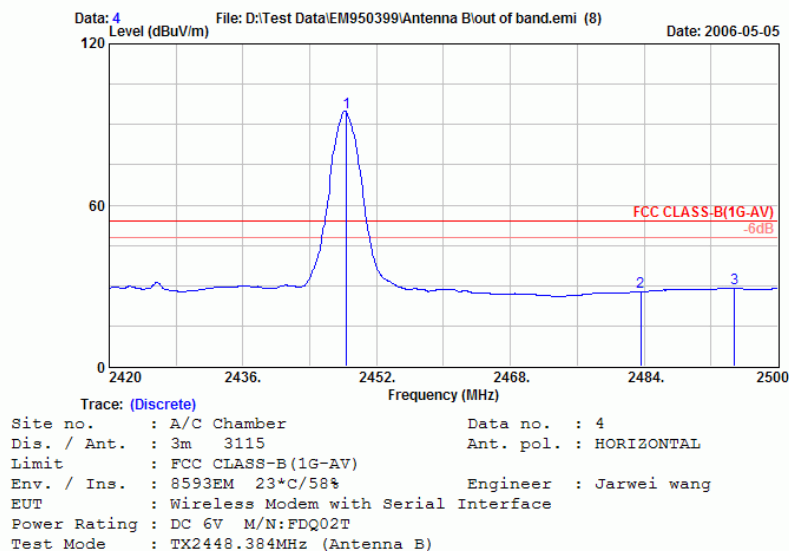
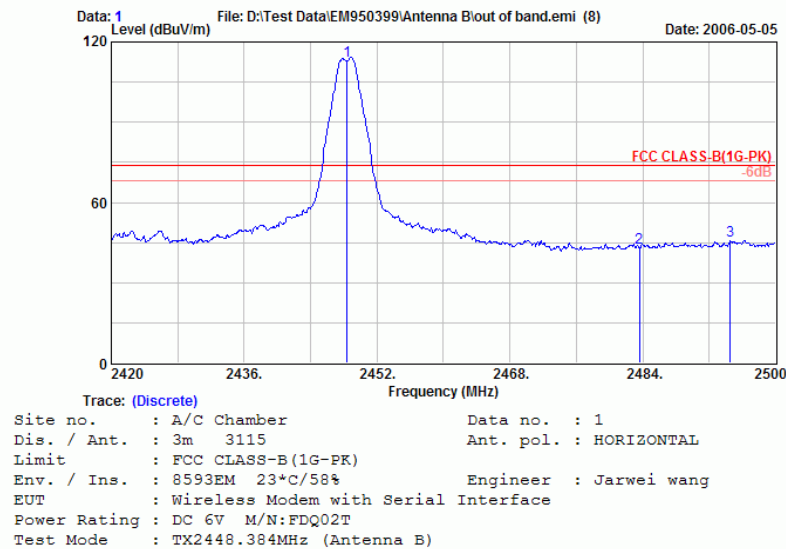
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2494.560	28.79	6.46	10.26	45.51	74.00	28.49
Average *	2494.800	28.79	6.46	-6.24	29.01	54.00	24.99

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



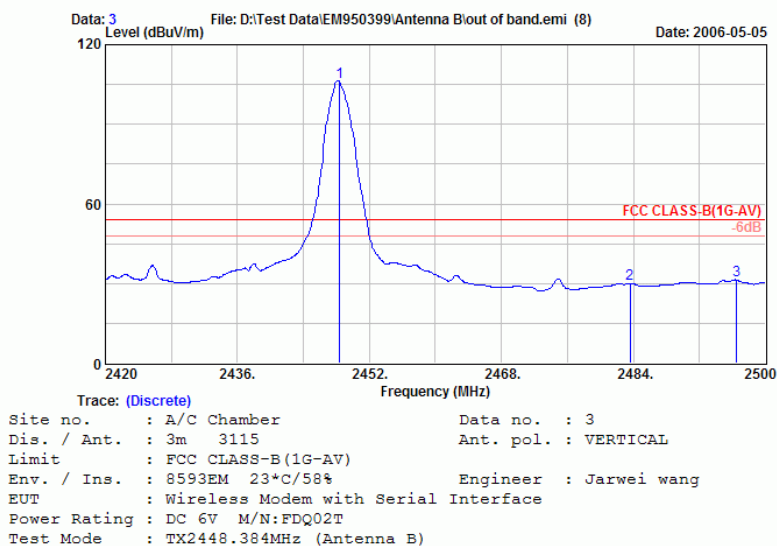
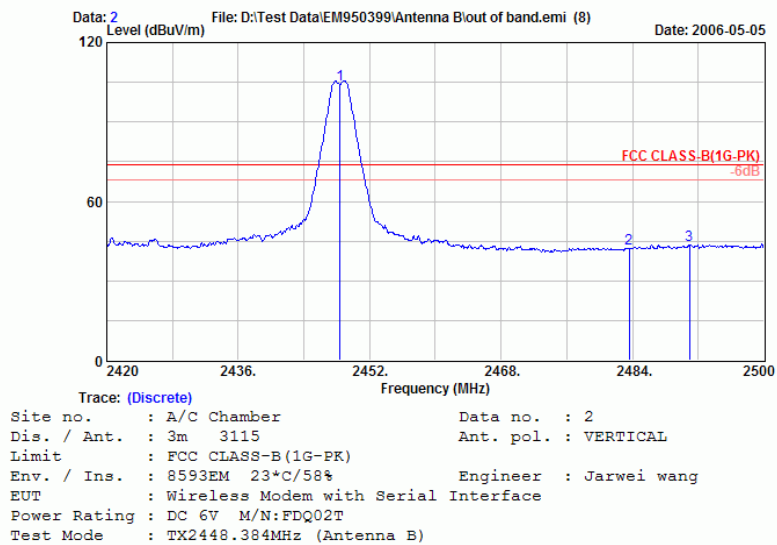
Date of Test : May 05, 2006 Temperature : 23°C

EUT : Wireless Modem with Serial Interface Humidity : 58%
with Antenna Type B

Test Mode : Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2490.960	28.79	6.46	8.44	43.69	74.00	30.31
Average *	2496.480	28.80	6.46	-3.86	31.40	54.00	22.60

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



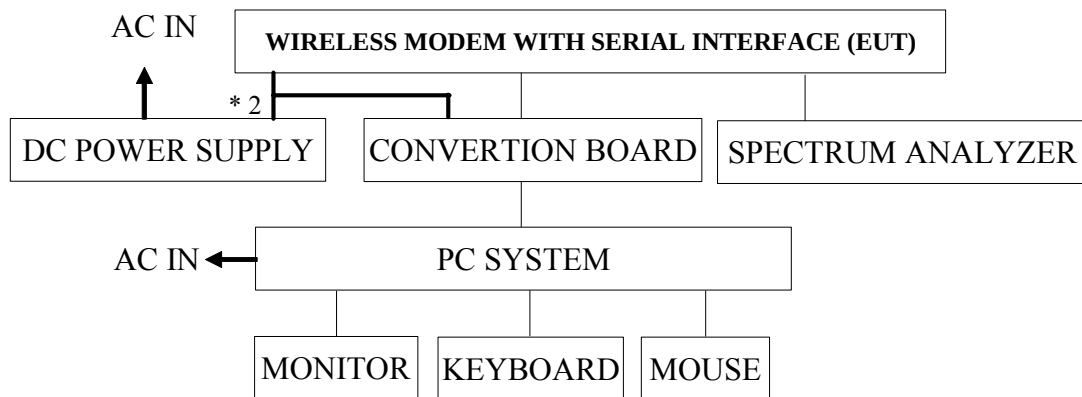
4. 6dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(2))

The minimum 6dB bandwidth shall be at least 500kHz.

4.4. Operating Condition of EUT

The test program “Futaba Term” was used to enable the EUT to transmit and receive data at different channel frequency individually.

4.5. Test Procedure

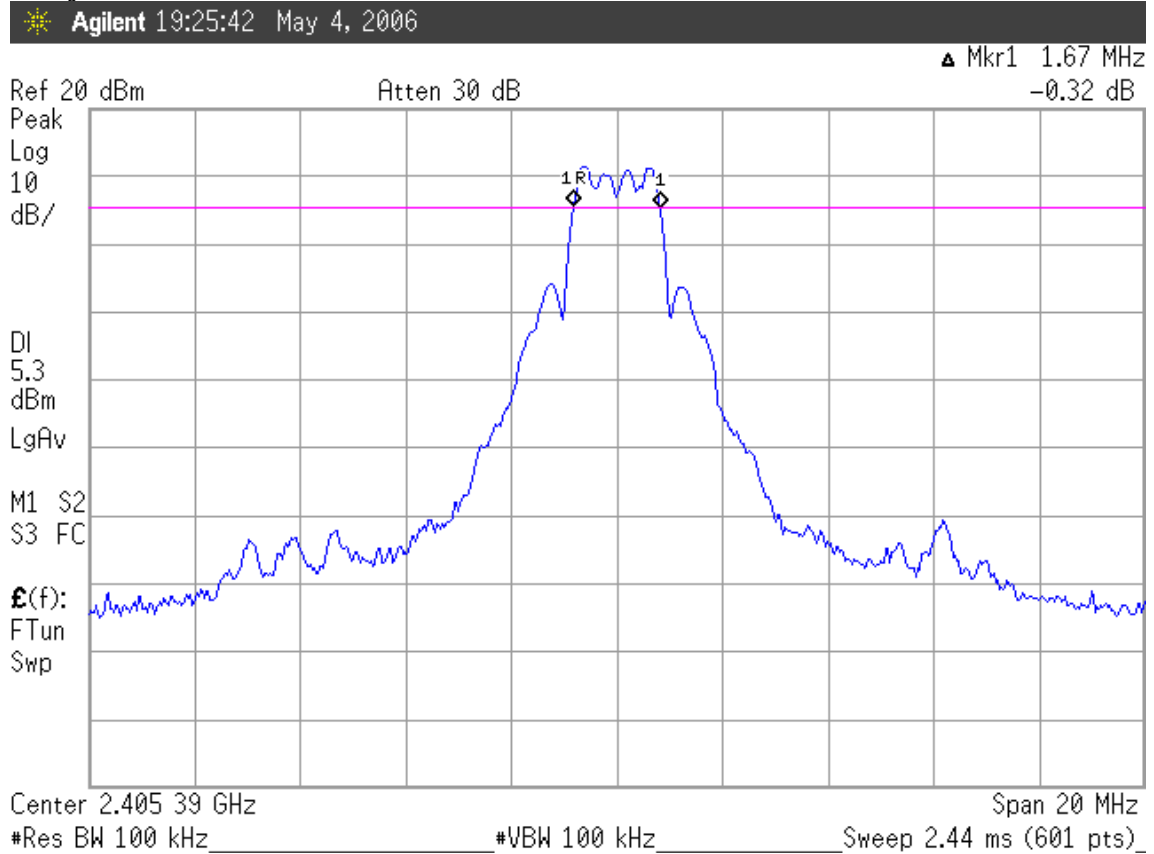
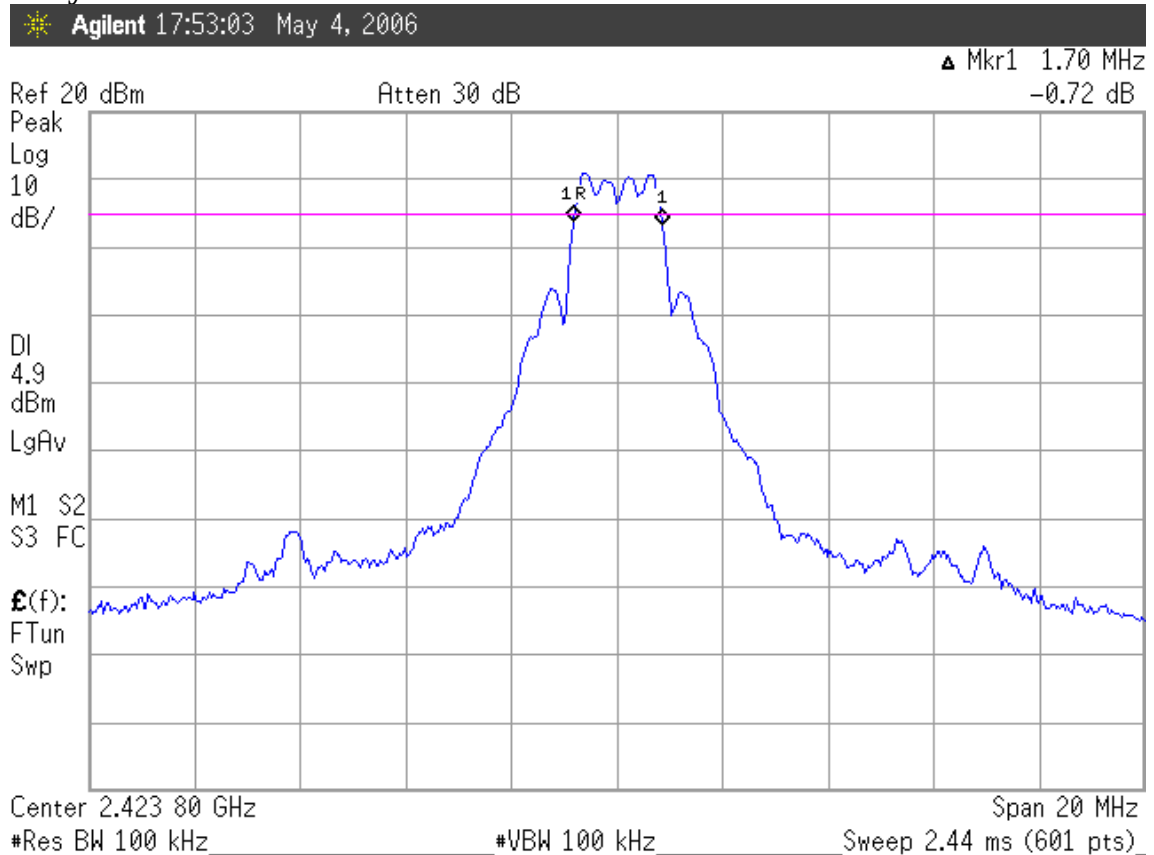
The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.6. Test Results

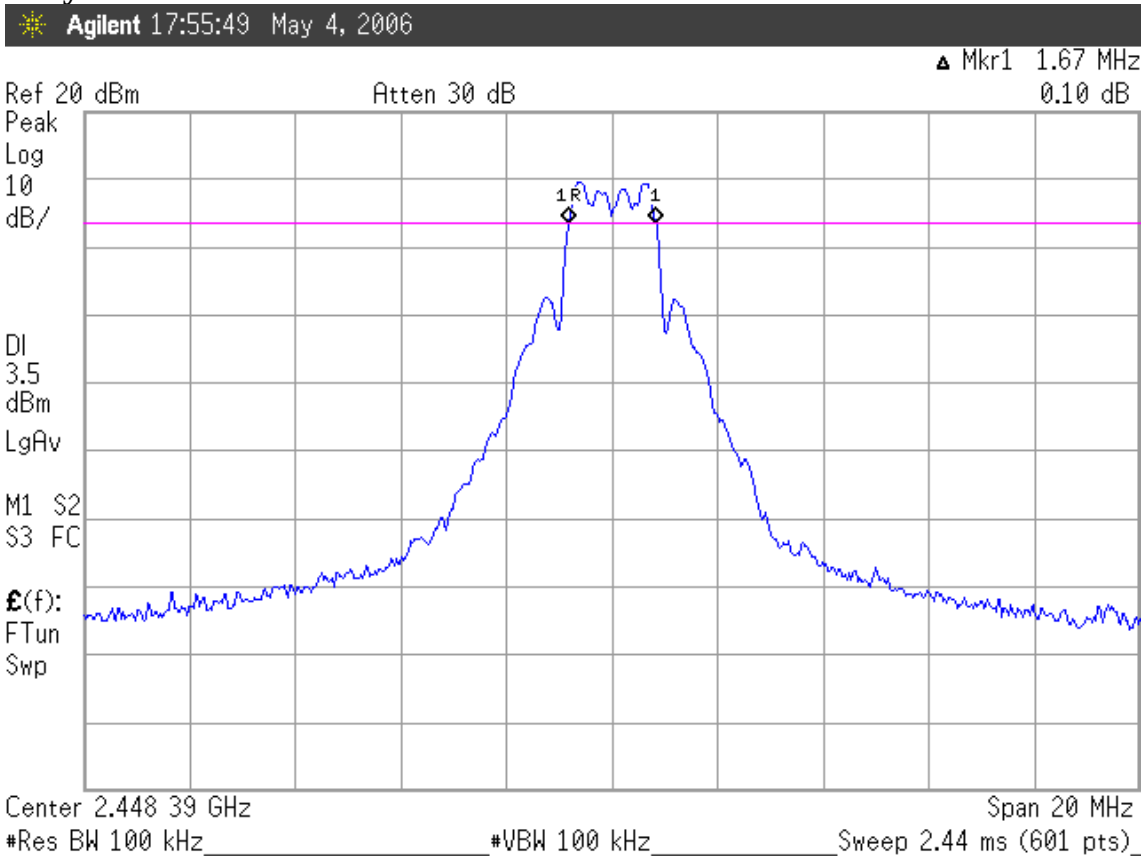
PASSED. All the test results are attached in next pages.

(Test Date : May 04, 2006 Temperature : 23°C Humidity : 54 %)

Channel	Frequency	6dB Bandwidth
2	2405.376MHz	1.67MHz
20	2423.808MHz	1.70MHz
44	2448.384MHz	1.67MHz

Frequency : 2405.376MHz**Frequency : 2423.808MHz**

Frequency : 2448.384MHz



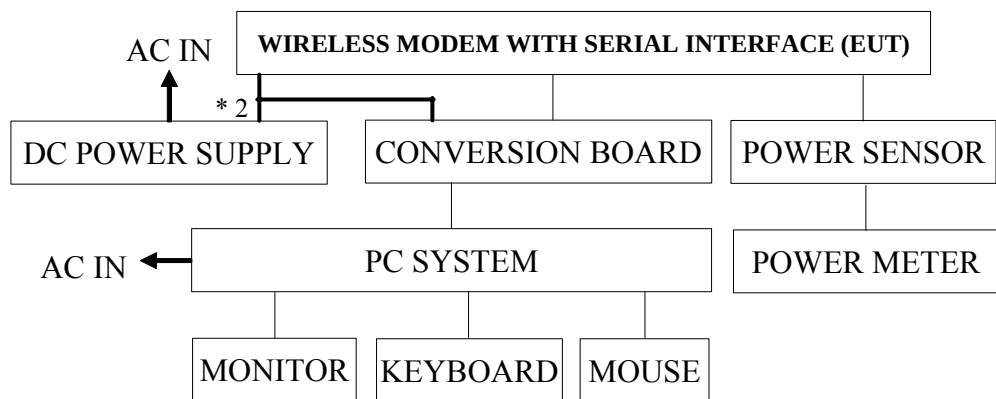
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K000001563	Jan. 09, 06'	Jan. 08, 07'
2.	Power Sensor	Anritsu	MA2491A	030873	Jan. 09, 06'	Jan. 08, 07'

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

The test program “Futaba Term” was used to enable the EUT to transmit and receive data at different channel frequency individually.

5.5. Test Procedure

The transmitter output was connected to the power meter that was designed to detect peak value automatically.

5.6. Test Results

PASSED. All the test results are listed below.

(Test Date : May 04, 2006 Temperature : 23°C Humidity : 54 %)

Channel	Frequency	Peak Output Power	Limit
2	2405.376MHz	17.83dBm	30dBm
20	2423.808MHz	17.28dBm	30dBm
44	2448.384MHz	16.10dBm	30dBm

6. EMISSION LIMITATIONS MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the emission limitations test :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※ This test result attaching to §3.6.3)

6.4. Operating Condition of EUT

The test program “Futaba Term” was used to enable the EUT to transmit and receive data at different channel frequency individually.

6.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW.

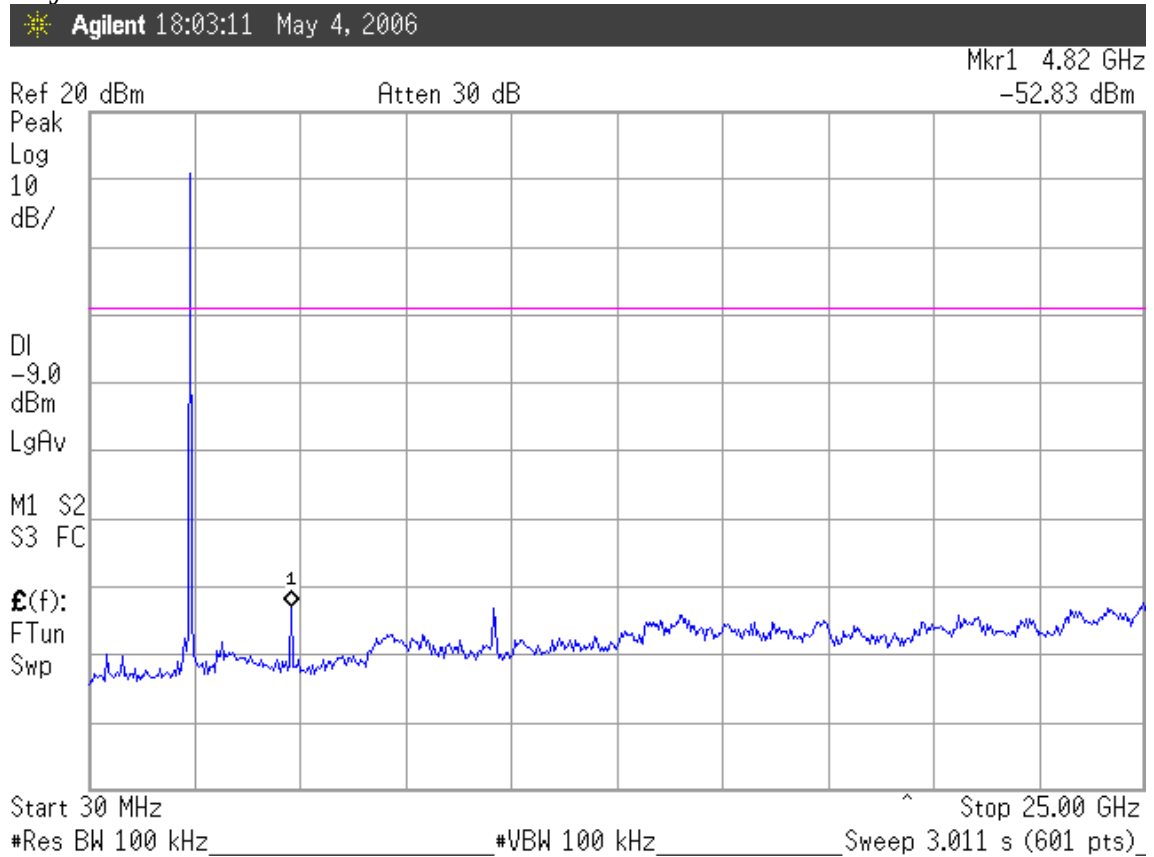
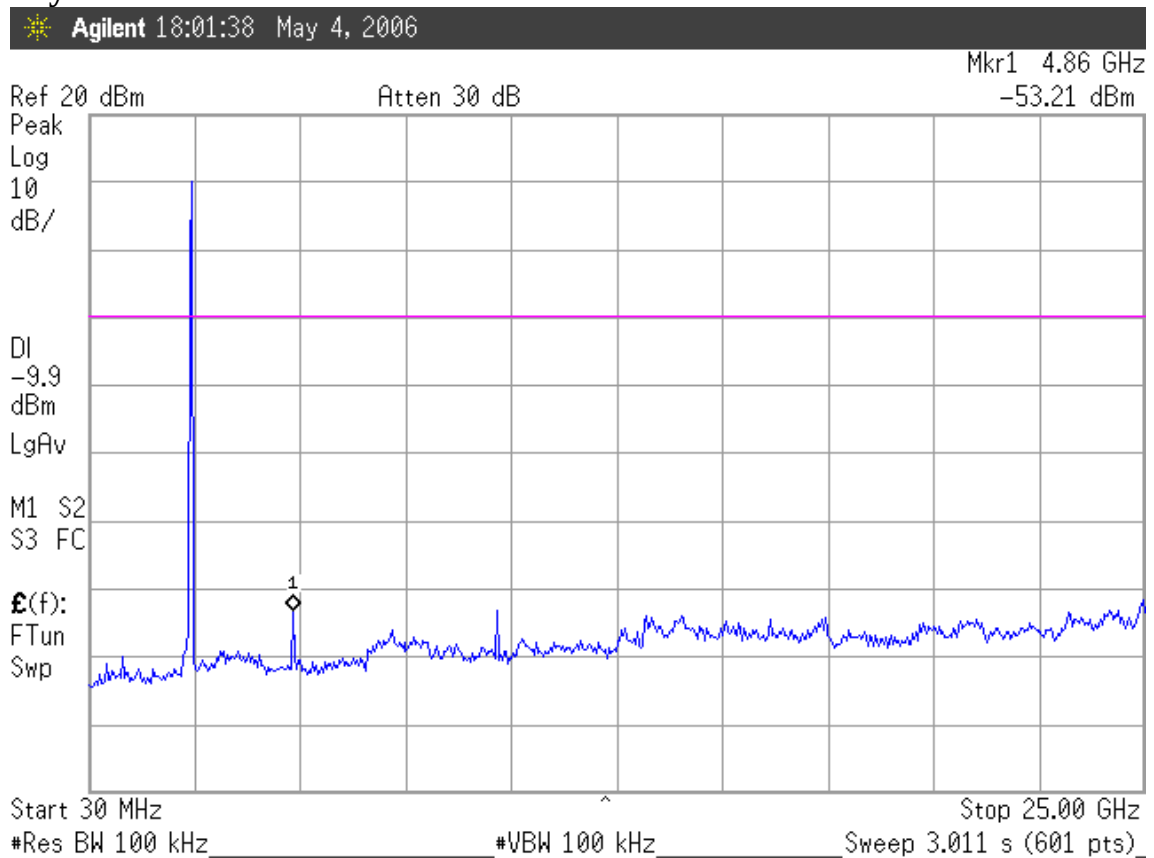
6.6. Test Results

PASSED. The testing data was attached in the next pages.

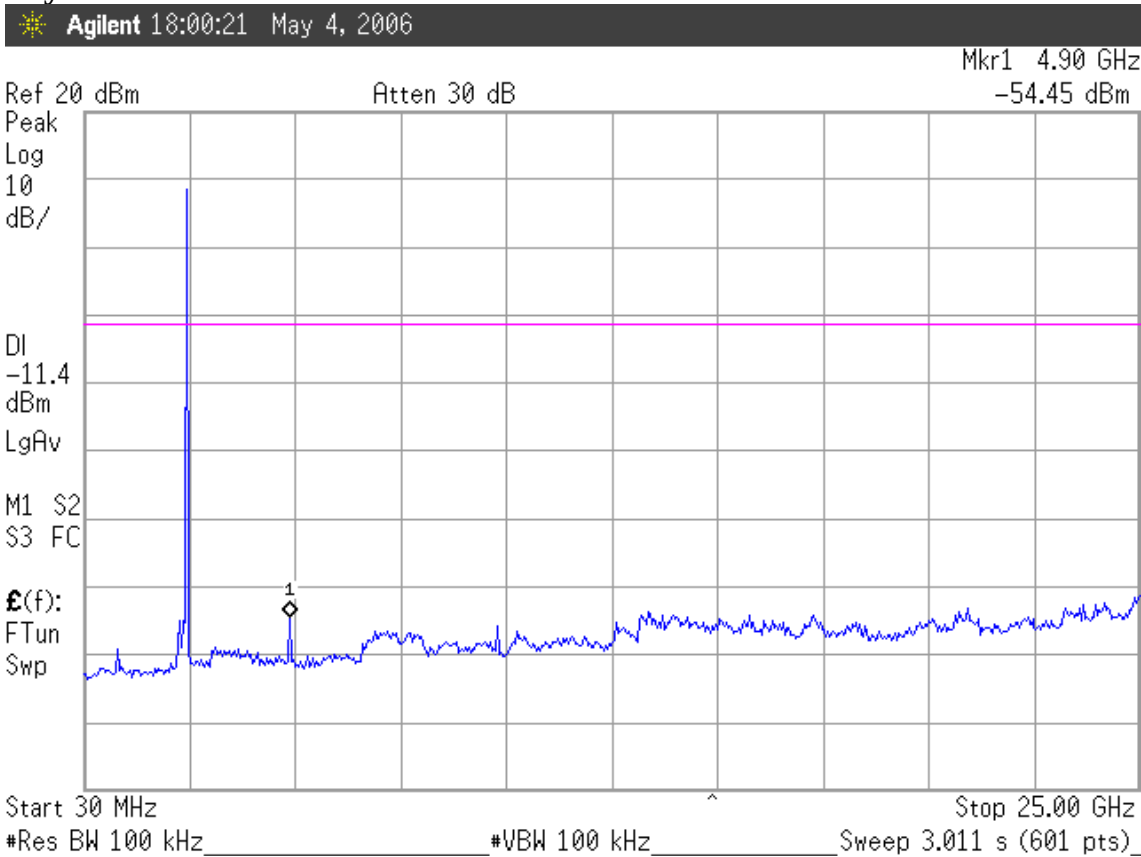
(Test Date : May 04, 2006 Temperature : 23°C Humidity : 54 %)

1. 2405.376MHz: During 30MHz~25GHz bandwidth. In the 4.82GHz, the -52.83dBm is max value that is lower than 20dB of primary channel.
2. 2423.808MHz: During 30MHz~25GHz bandwidth. In the 4.86GHz, the -53.21dBm is max value that is lower than 20dB of primary channel.
3. 2448.384MHz: During 30MHz~25GHz bandwidth. In the 4.9GHz, the -54.45dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

Frequency : 2405.376MHz**Frequency : 2423.808MHz**

Frequency : 2448.384MHz



7. BAND EDGES MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.4. Operating Condition of EUT

The test program “Futaba Term” was used to enable the EUT to transmit and receive data at different channel frequency individually.

7.5. Test Procedure

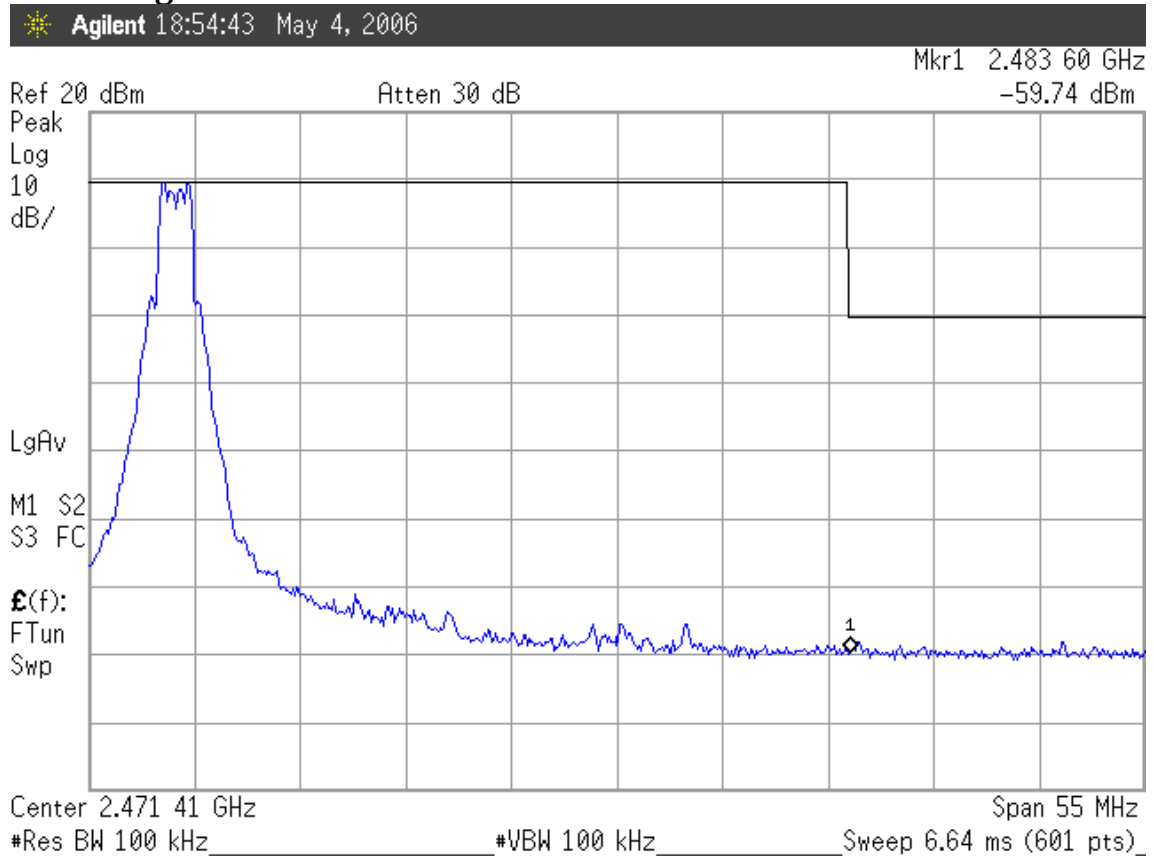
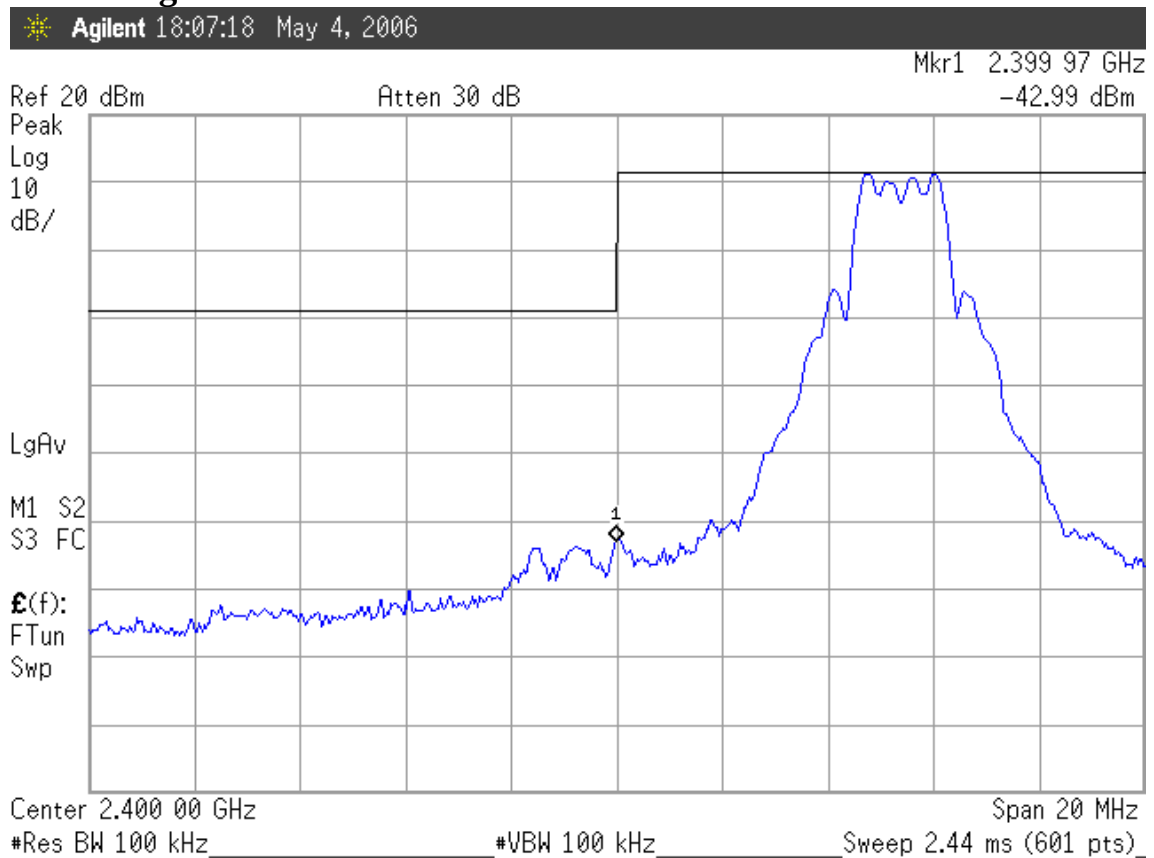
The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

7.6. Test Results

PASSED. All the test results are attached in next pages.

(Test Date : May 04, 2006 Temperature : 23°C Humidity : 54 %)

1. Below Band edge: The highest emission level is - 59.74dBm on 2.48360GHz ◦
2. Upper Band edge : The highest emission level is - 42.99dBm on 2.39997GHz ◦

Below Band edge**Upper Band edge**

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4. Operating Condition of EUT

The test program “Futaba Term” was used to enable the EUT to transmit and receive data at different channel frequency individually.

8.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz.

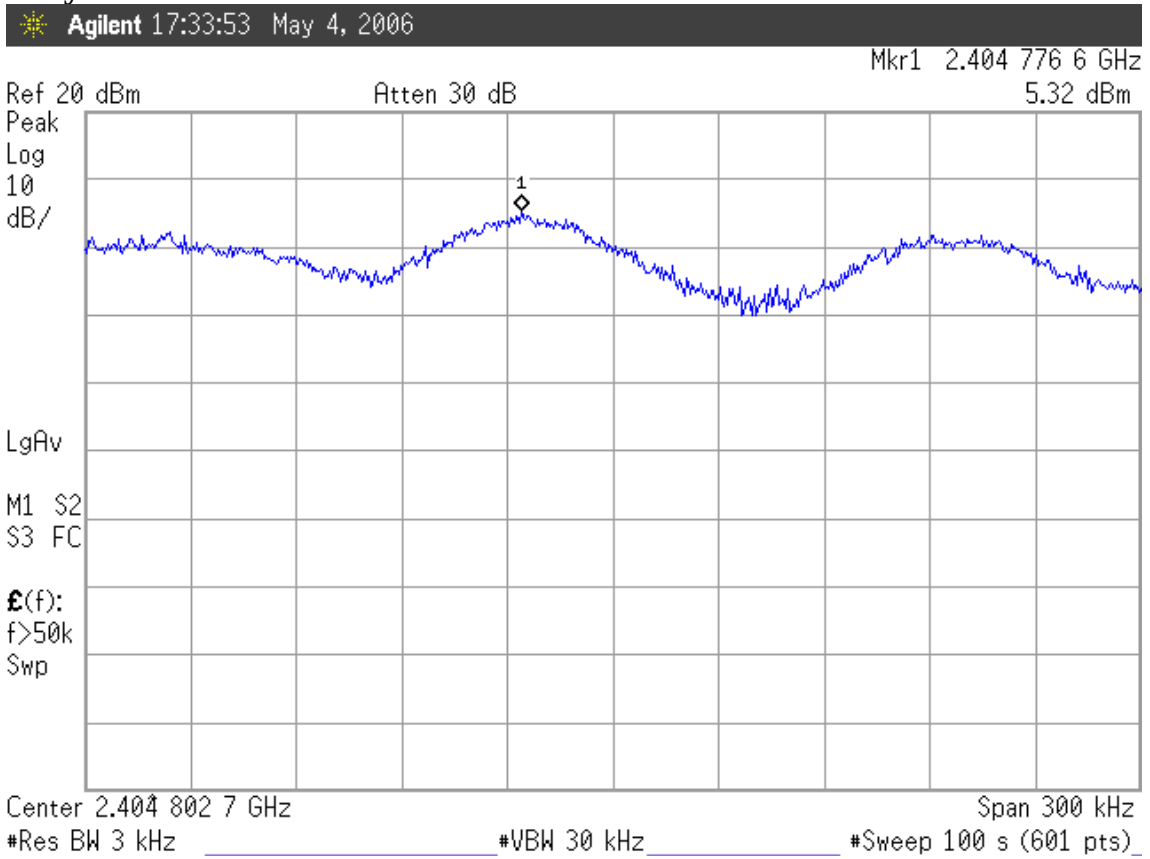
8.6. Test Results

PASSED. All the test results are attached in next pages.

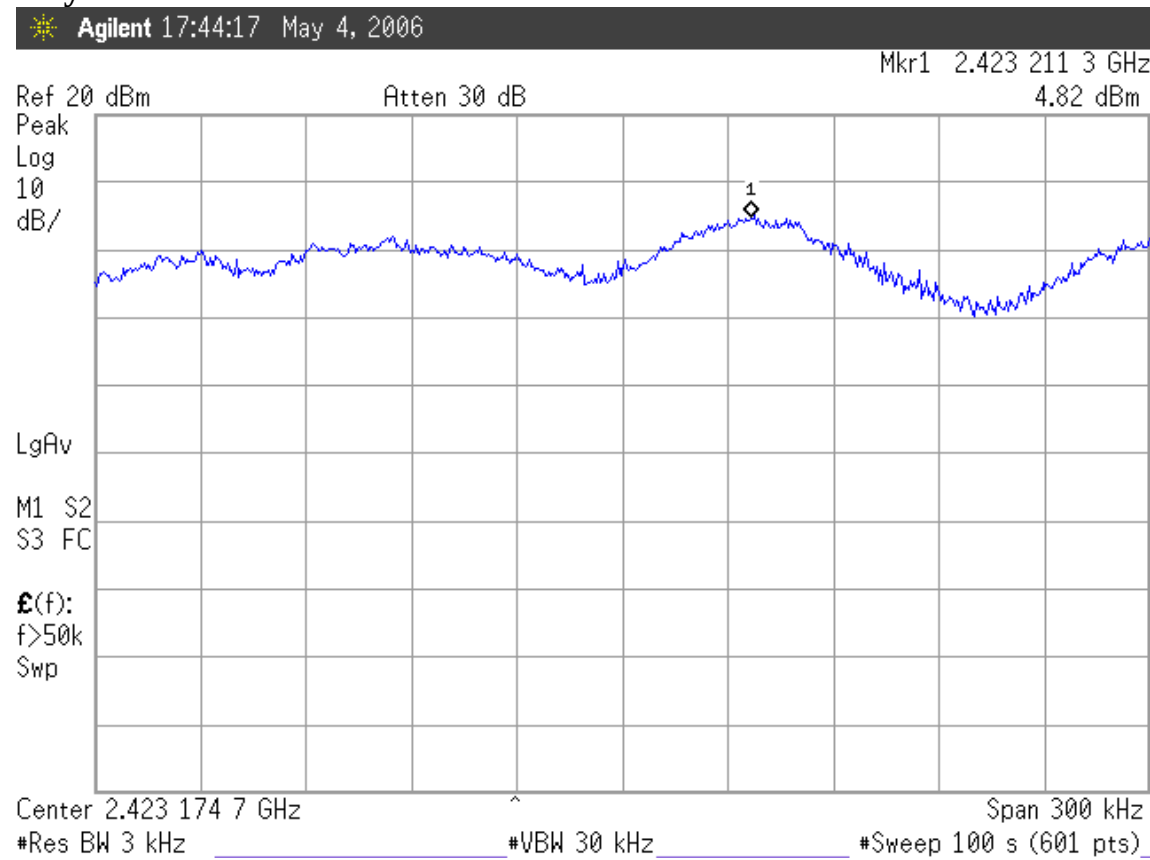
(Test Date : May 04, 2006 Temperature : 23°C Humidity : 54 %)

Channel	Frequency	Power Spectral Density	Limit
2	2405.376MHz	5.32dBm	8dBm
20	2423.808MHz	4.82dBm	8dBm
44	2448.384MHz	2.81dBm	8dBm

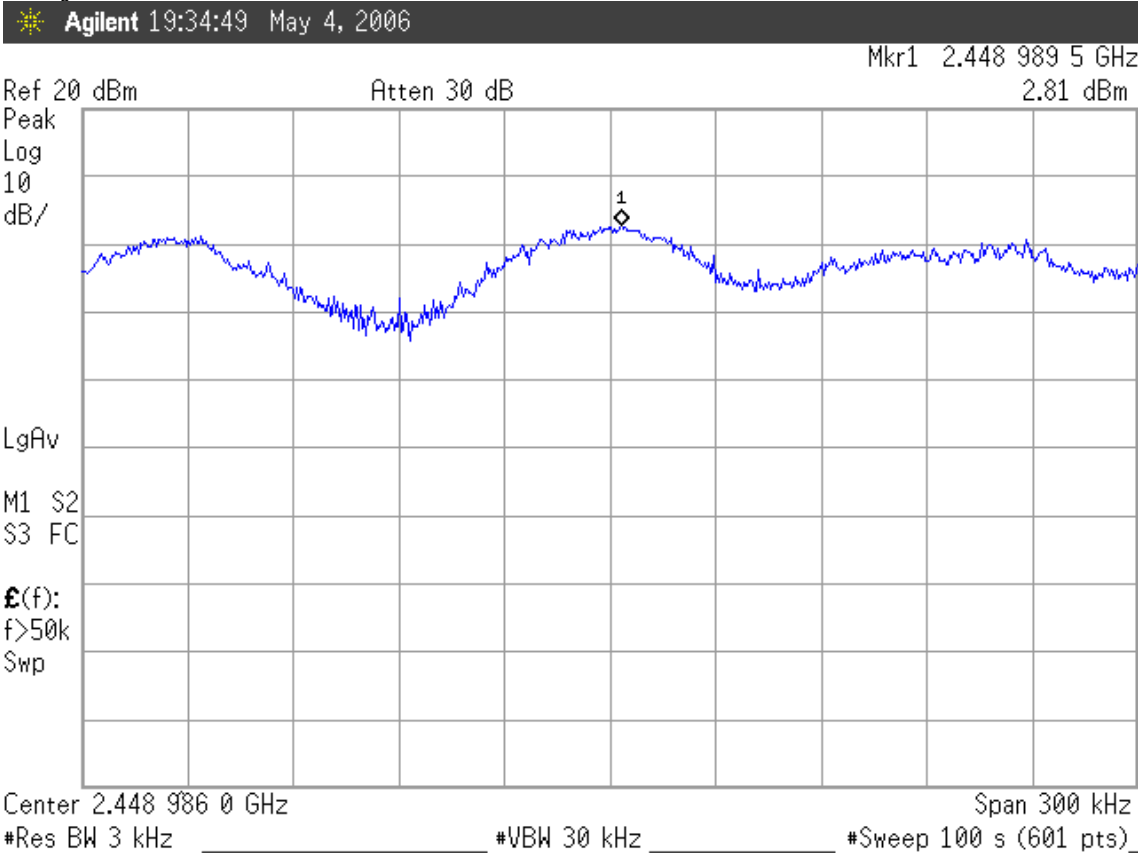
Frequency : 2405.376MHz



Frequency : 2423.808MHz



Frequency : 2448.384MHz



9. DEVIATION TO TEST SPECIFICATIONS

【NONE】