FCC TEST REPORT

REPORT NO.: RF920128R02A
MODEL NO.: GL2422MP-MT
RECEIVED: Jan. 28, 2003
TESTED: Feb. 9, 2003 ~ Mar. 12, 2003

APPLICANT: D-Link Corporation

ADDRESS: No.8, Li-shing Rd VII, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan, R.O.C.

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ILAC MRA

Lab Code: 200102-0

Table of Contents

1 CERTIFICATION

PRODUCT :	Wireless 22Mbps Mini PCI Card
BRAND NAME :	D-Link
MODEL NO. :	GL2422MP-MT
APPLICANT :	D-Link Corporation
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Feb. 9, 2002 to Mar. 12, 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: Emily Lu , **DATE:** March 14, 2003

Emily Lu

APPROVED BY: for , **DATE:** March 14, 2003

Dr. Alan Lane

Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	**Test Type and Limit**	**Result**	**REMARK**
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is –14.72dBuV at 0.169MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is –0.70dBuV at 176.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless 22Mbps Mini PCI Card
MODEL NO.	GL2422MP-MT
POWER SUPPLY	3.3VDC from notebook
MODULATION TYPE	BPSK, QPSK, CCK, PBCC
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11/22Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	17.88dBm
ANTENNA TYPE	Dipole & Inverted F antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was designed with two kinds of PCB. One is for the component laid on the single side and another is for double side.

2. The EUT was designed with two kinds of Pre Amplifier. The details as follow:

Item	Brand name	Model name
1	GATAX	GA2P4W22
2	MAXIM	MAX2242

3. The following four antennas were provided to this EUT and also please refer to EUT photo. Item 1 and 4 were chosen for final test.

Item	Antenna Type	Antenna Gain (dBi)
1*	Dipole	2
2	Dipole	2
3	Dipole	2
4*	Inverted F	1

4. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

NOTE:

1. Below 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 22Mbps, the worst case, was chosen for final test.
4. Two test results were presented in the following section, test result A is for double side PCB and test result B is for single side.
5. For “Radiated Emission Measurement” test, please refer to following table for test results:

Item	PCB	Pre Amplifier Model	Antenna Type	Test Result
1	Double side	GA2P4W22	Dipole	A.1
			Inverted F	A.2
		MAX2242	Dipole	A.3
			Inverted F	A.4
2	Single side	GA2P4W22	Dipole	B.1
			Inverted F	B.2
		MAX2242	Dipole	B.3
			Inverted F	B.4

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless 22Mbps Mini PCI Card. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 15, Subpart C. (15.247)
ANSI C63.4 : 1992

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-09C748-12800-19O-B220	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC Approved
3	MODEM	ACEEX	1414	980020569	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	834115/016	Mar. 02, 2004
ROHDE & SCHWARZ Artificial Mains Network (For EUT)	ESH2-Z5	892107/003	July 10, 2003
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Nov. 29, 2003
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Nov. 29, 2003
EMCO L.I.S.N. (For peripherals)	3825/2	9504-2359	July 10, 2003
Software	Cond-V2M1	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C03.01	July 11, 2003
Terminator (For EMCO LISN)	NA	E1-01-300	Feb. 23, 2004
Terminator (For EMCO LISN)	NA	E1-01-301	Feb. 23, 2004

NOTE: 1.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. "*": These equipment are used for conducted telecom port test only (if tested).
3. The test was performed in ADT Shielded Room No. 3.
4. The VCCI Site Registration No. is C-274.

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4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

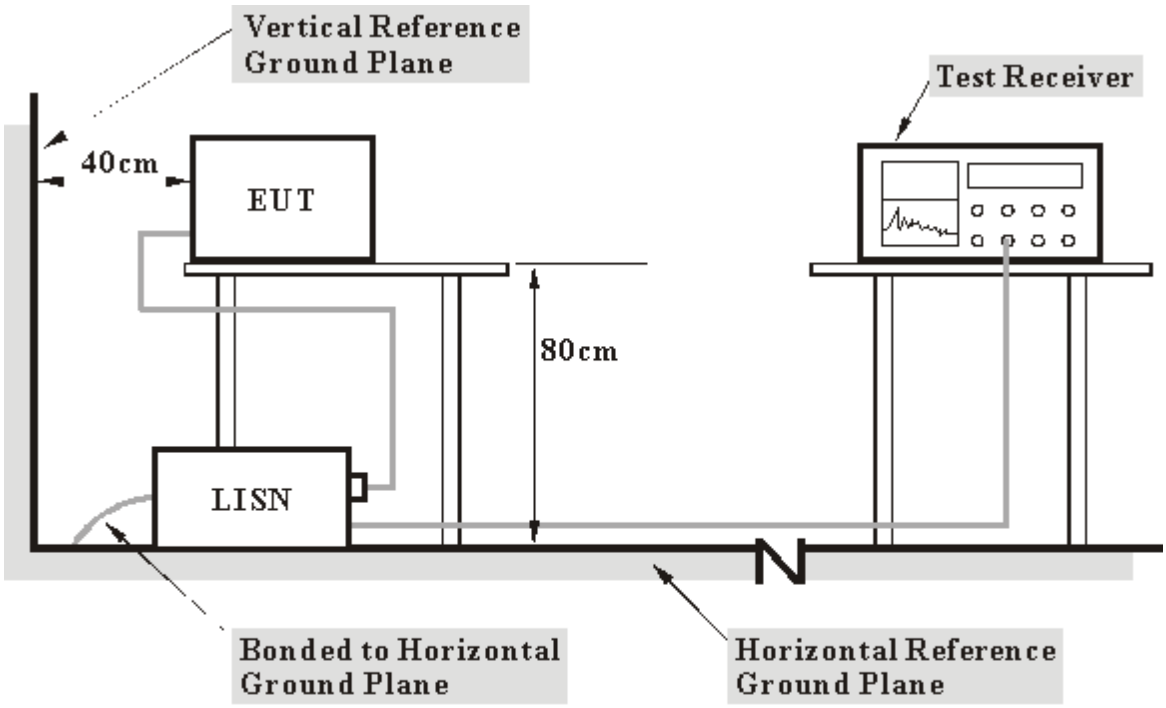
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

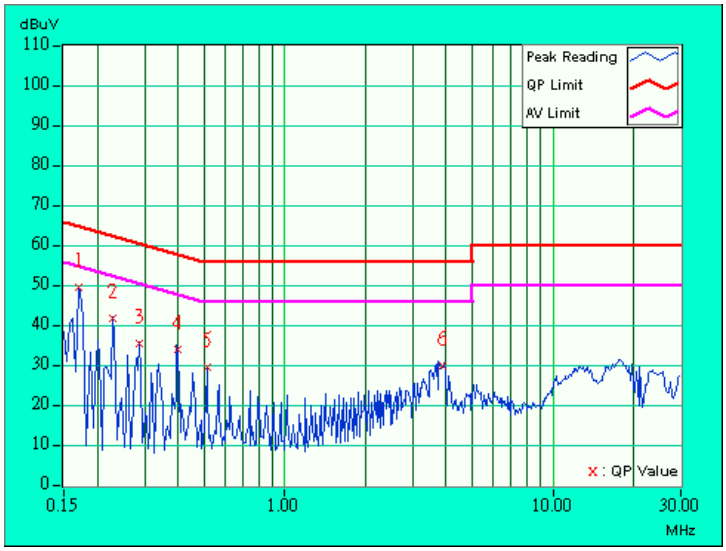
a. Connected the EUT to a computer system placed on a testing table.
b. The computer system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.
c. The computer system sent "H" messages to its screen.
d. The computer system sent “H” messages to modem.
e. The computer system sent "H" messages to printer, and the printer prints them on paper.

4.1.7 TEST RESULTS

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz
PRE AMPLIFIER	GATAX	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.171	0.10	49.22	-	49.32	-	64.92	54.92	-15.60	-
2	0.228	0.10	41.67	-	41.77	-	62.52	52.52	-20.75	-
3	0.287	0.10	35.19	-	35.29	-	60.62	50.62	-25.33	-
4	0.400	0.10	33.71	-	33.81	-	57.85	47.85	-24.04	-
5	0.513	0.10	29.16	-	29.26	-	56.00	46.00	-26.74	-
6	3.862	0.29	29.61	-	29.90	-	56.00	46.00	-26.10	-

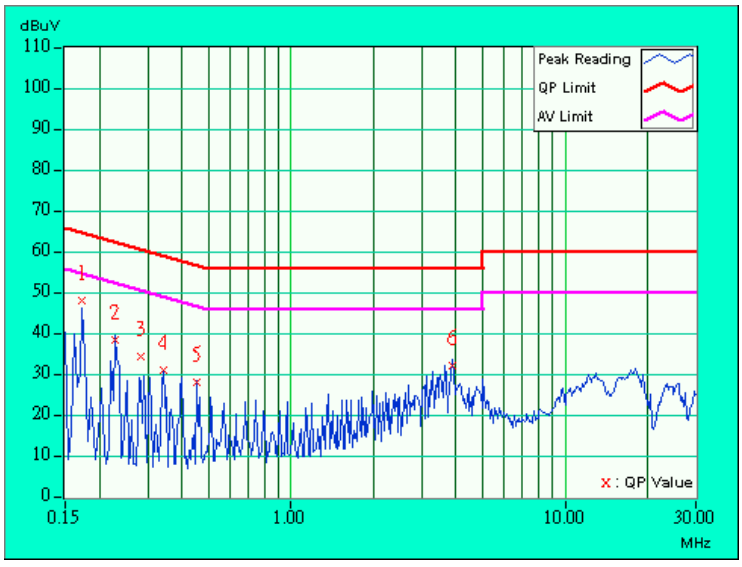
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	GATAX	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.172	0.10	47.76	-	47.86	-	64.86	54.86	-17.00	-
2	0.229	0.10	38.29	-	38.39	-	62.47	52.47	-24.08	-
3	0.285	0.10	34.18	-	34.28	-	60.67	50.67	-26.39	-
4	0.341	0.10	30.81	-	30.91	-	59.17	49.17	-28.26	-
5	0.455	0.10	27.73	-	27.83	-	56.79	46.79	-28.96	-
6	3.866	0.29	31.81	-	32.10	-	56.00	46.00	-23.90	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	GATAX	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.172	0.10	48.71	-	48.81	-	64.88	54.88	-16.07	-
2	0.228	0.10	41.52	-	41.62	-	62.52	52.52	-20.90	-
3	0.341	0.10	31.35	-	31.45	-	59.18	49.18	-27.73	-
4	0.400	0.10	34.17	-	34.27	-	57.85	47.85	-23.58	-
5	0.455	0.10	31.12	-	31.22	-	56.79	46.79	-25.57	-
6	3.867	0.29	29.85	-	30.14	-	56.00	46.00	-25.86	-

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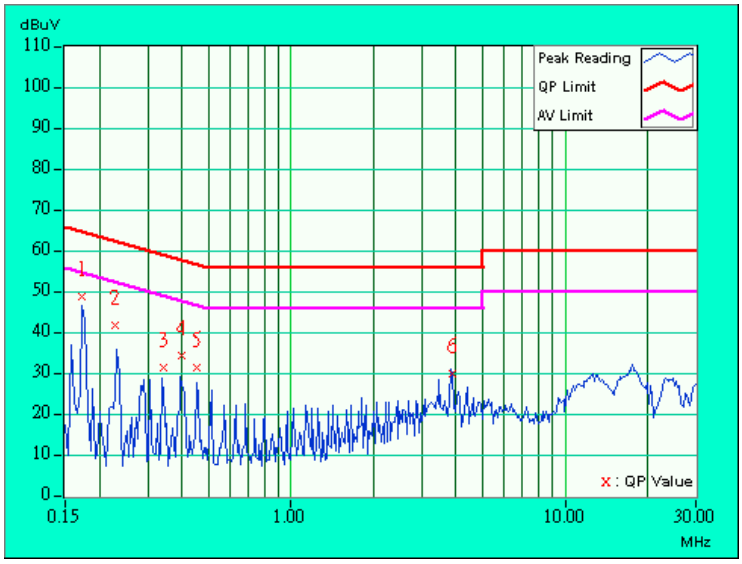
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	GATAX	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.171	0.10	48.28	-	48.38	-	64.92	54.92	-16.54	-
2	0.228	0.10	39.43	-	39.53	-	62.52	52.52	-22.99	-
3	0.287	0.10	32.63	-	32.73	-	60.62	50.62	-27.89	-
4	0.341	0.10	30.63	-	30.73	-	59.17	49.17	-28.44	-
5	0.513	0.10	26.79	-	26.89	-	56.00	46.00	-29.11	-
6	3.754	0.29	30.03	-	30.32	-	56.00	46.00	-25.68	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
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3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
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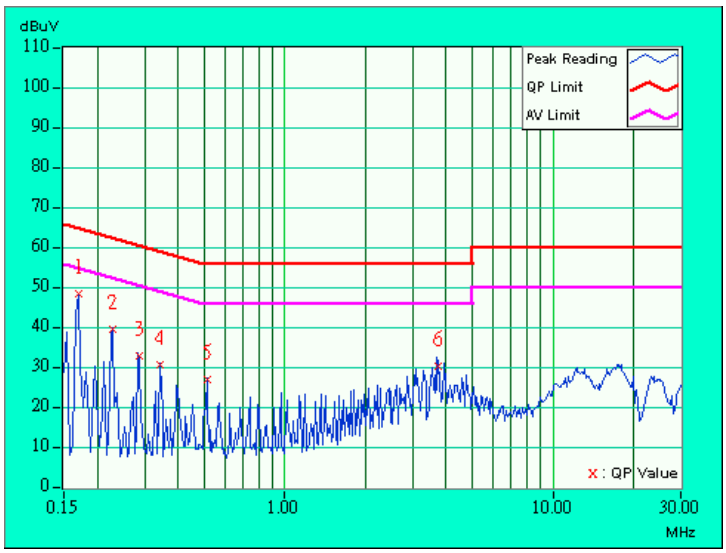

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	GATAX	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	48.45	-	48.55	-	64.98	54.98	-16.43	-
2	0.228	0.10	41.37	-	41.47	-	62.52	52.52	-21.05	-
3	0.341	0.10	31.37	-	31.47	-	59.17	49.17	-27.70	-
4	0.400	0.10	34.44	-	34.54	-	57.85	47.85	-23.31	-
5	0.511	0.10	29.66	-	29.76	-	56.00	46.00	-26.24	-
6	3.473	0.27	26.94	-	27.21	-	56.00	46.00	-28.79	-

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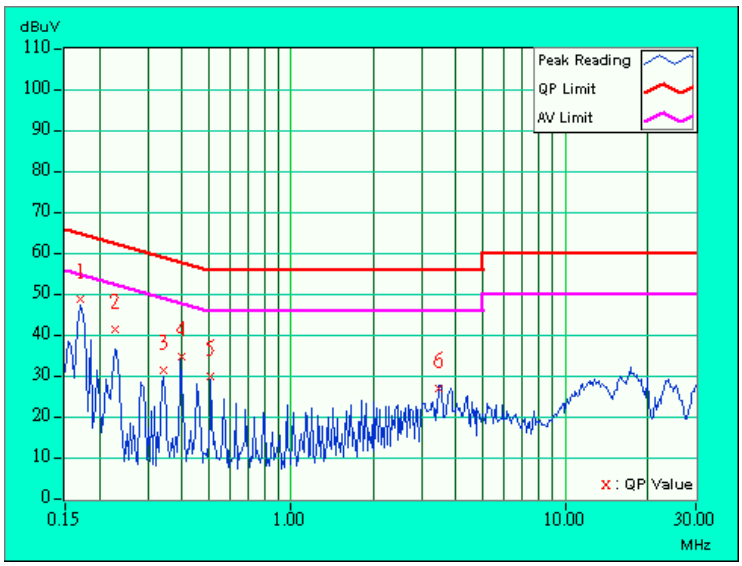
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	GATAX	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	47.68	-	47.78	-	64.98	54.98	-17.20	-
2	0.228	0.10	39.12	-	39.22	-	62.52	52.52	-23.30	-
3	0.457	0.10	26.84	-	26.94	-	56.74	46.74	-29.80	-
4	2.845	0.24	25.94	-	26.18	-	56.00	46.00	-29.82	-
5	3.871	0.29	32.23	-	32.52	-	56.00	46.00	-23.48	-
6	17.875	0.36	26.98	-	27.34	-	60.00	50.00	-32.66	-

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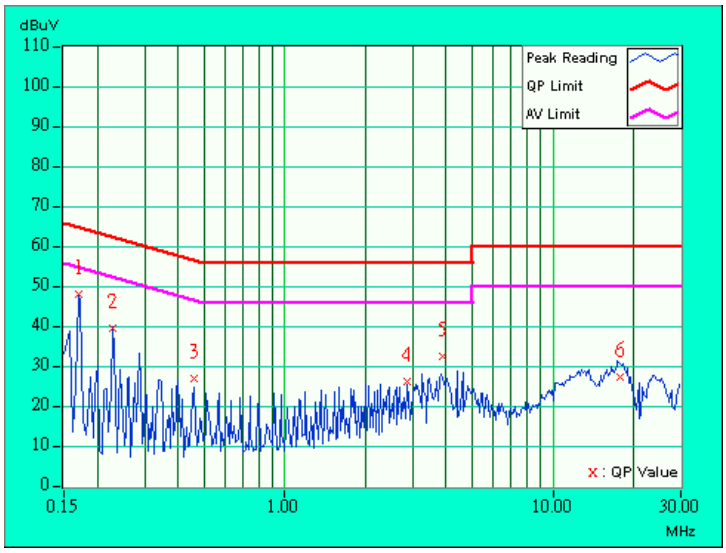

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.169	0.10	49.82	-	49.92	-	64.99	54.99	-15.07	-
2	0.228	0.10	41.80	-	41.90	-	62.52	52.52	-20.62	-
3	0.283	0.10	37.81	-	37.91	-	60.73	50.73	-22.82	-
4	0.341	0.10	32.03	-	32.13	-	59.17	49.17	-27.04	-
5	0.455	0.10	31.28	-	31.38	-	56.79	46.79	-25.41	-
6	3.911	0.30	29.02	-	29.32	-	56.00	46.00	-26.68	-

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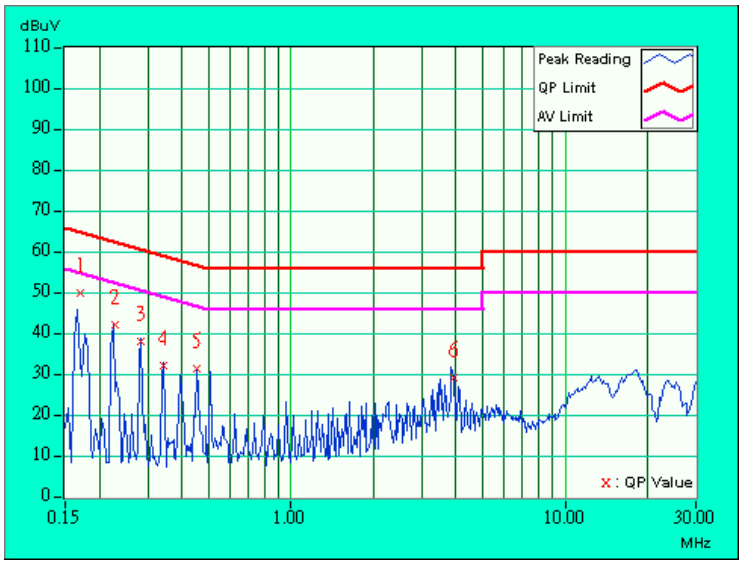
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	50.16	-	50.26	-	64.98	54.98	-14.72	-
2	0.227	0.10	40.96	-	41.06	-	62.57	52.57	-21.51	-
3	0.287	0.10	31.96	-	32.06	-	60.62	50.62	-28.56	-
4	0.341	0.10	31.36	-	31.46	-	59.17	49.17	-27.71	-
5	0.453	0.10	28.01	-	28.11	-	56.81	46.81	-28.70	-
6	3.852	0.29	32.05	-	32.34	-	56.00	46.00	-23.66	-

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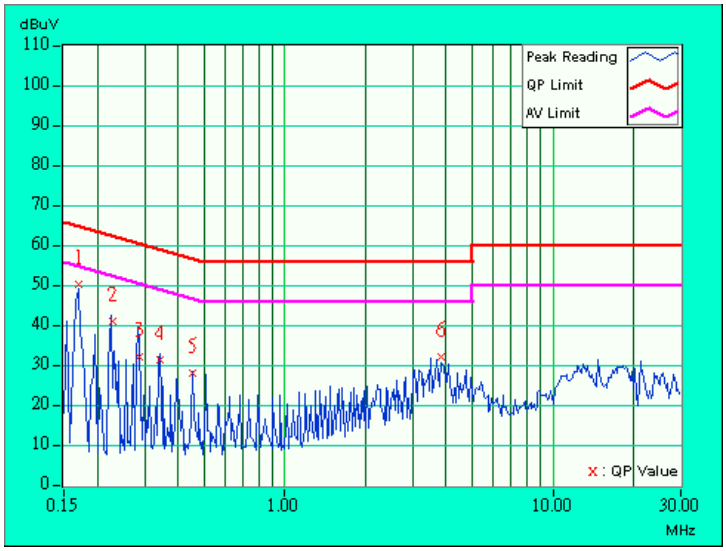
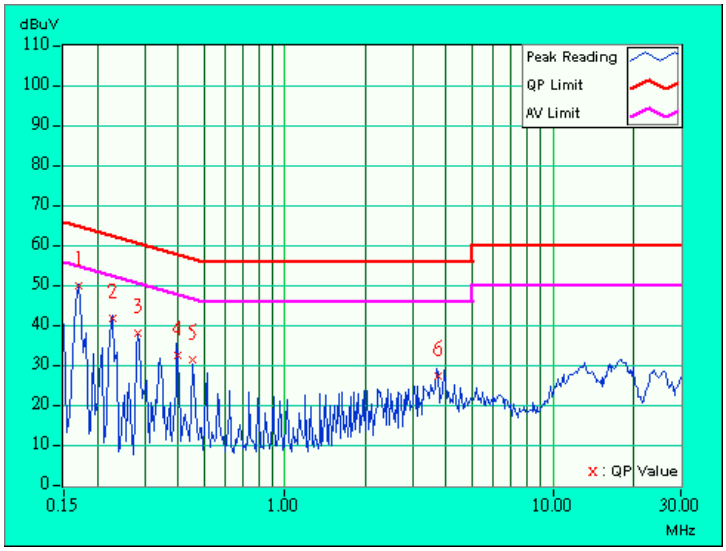
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	49.66	-	49.76	-	64.98	54.98	-15.22	-
2	0.228	0.10	41.68	-	41.78	-	62.52	52.52	-20.74	-
3	0.283	0.10	37.68	-	37.78	-	60.73	50.73	-22.95	-
4	0.400	0.10	32.16	-	32.26	-	57.85	47.85	-25.59	-
5	0.452	0.10	31.22	-	31.32	-	56.83	46.83	-25.51	-
6	3.742	0.29	27.26	-	27.55	-	56.00	46.00	-28.45	-

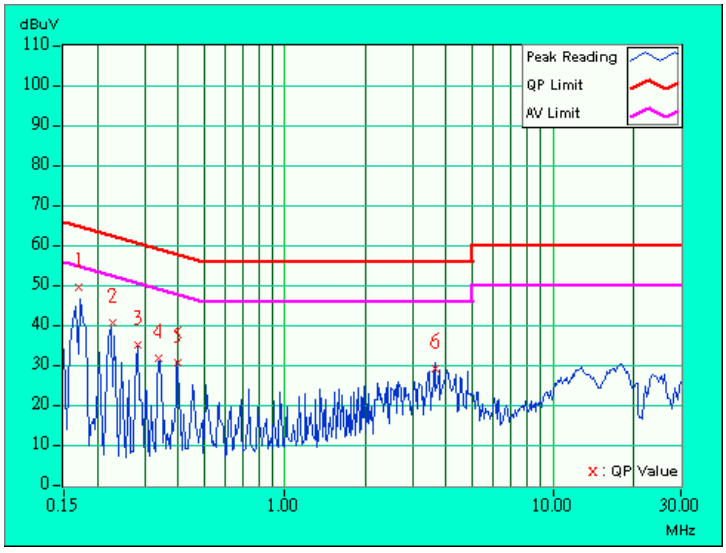
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	49.22	-	49.32	-	64.98	54.98	-15.66	-
2	0.227	0.10	40.42	-	40.52	-	62.55	52.55	-22.03	-
3	0.283	0.10	34.92	-	35.02	-	60.73	50.73	-25.71	-
4	0.340	0.10	31.51	-	31.61	-	59.20	49.20	-27.59	-
5	0.397	0.10	30.30	-	30.40	-	57.91	47.91	-27.51	-
6	3.631	0.28	29.02	-	29.30	-	56.00	46.00	-26.70	-

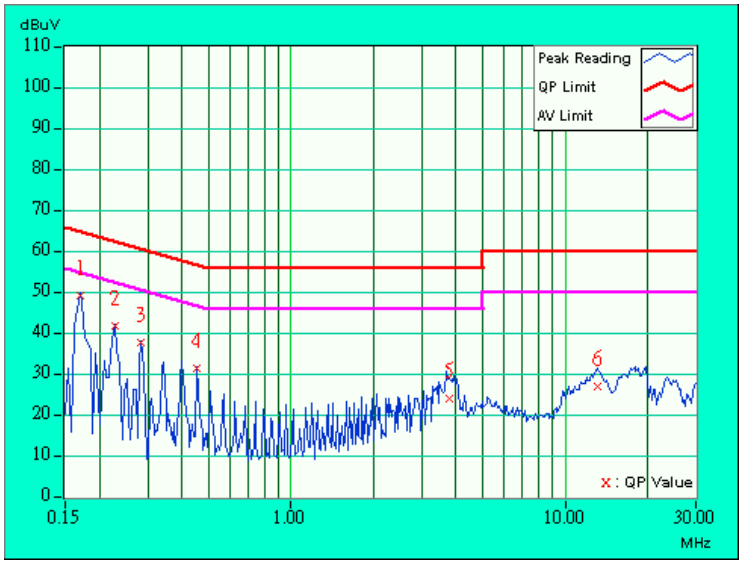
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.171	0.10	49.02	-	49.12	-	64.92	54.92	-15.80	-
2	0.228	0.10	41.46	-	41.56	-	62.52	52.52	-20.96	-
3	0.284	0.10	37.40	-	37.50	-	60.70	50.70	-23.20	-
4	0.455	0.10	31.40	-	31.50	-	56.79	46.79	-25.29	-
5	3.804	0.29	23.88	-	24.17	-	56.00	46.00	-31.83	-
6	13.059	0.26	26.72	-	26.98	-	60.00	50.00	-33.02	-

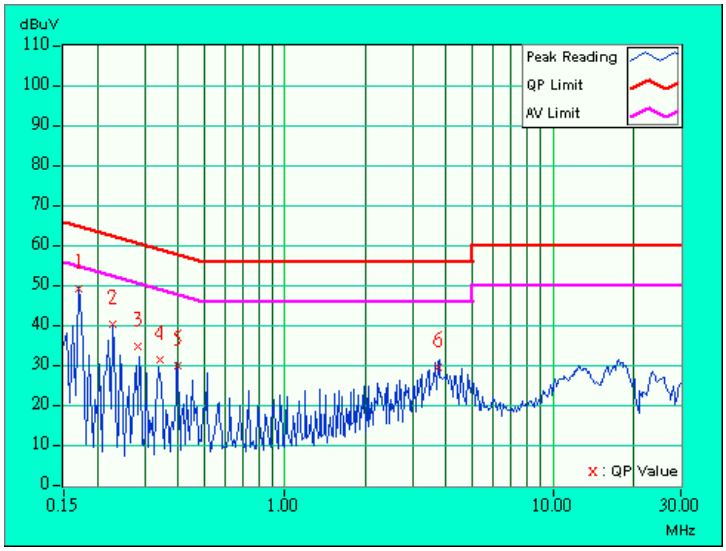
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**6dB BANDWIDTH**	9 kHz
PRE AMPLIFIER	MAXIM	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 69%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Cody Chang		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	49.04	-	49.14	-	64.98	54.98	-15.84	-
2	0.228	0.10	39.95	-	40.05	-	62.52	52.52	-22.47	-
3	0.283	0.10	34.66	-	34.76	-	60.73	50.73	-25.97	-
4	0.341	0.10	31.20	-	31.30	-	59.17	49.17	-27.87	-
5	0.399	0.10	29.79	-	29.89	-	57.88	47.88	-27.99	-
6	3.746	0.29	29.22	-	29.51	-	56.00	46.00	-26.49	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value.
5. Correction factor = Insertion loss + Cable loss.
6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* HP Spectrum Analyzer	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Apr. 29, 2003
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 07, 2003
*Spectrum Analyzer	8593E	3926A04191	Mar. 28, 2003
*Test Receiver	ESI7	838496/016	Feb. 23, 2004
SCHAFFNER Tunable Dipole Antenna SCHWARZBECK Tunable Dipole Antenna	VHBA 9123 UHA 9105	459 977	Nov. 22, 2003
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 02, 2003
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 03, 2003
* EMCO Horn Antenna	3115	9312-4192	Apr. 09, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	ADT_Radiated_V5.09	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Jul. 11. 2003
* TIMES RF cable	LMR-600	CABLE-ST5-01	Jul. 11. 2003

NOTE: 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. "*" = These equipment are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The test was performed in ADT Open Site No. 5.
5. The VCCI Site Registration No. is R-1039.

4.2.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

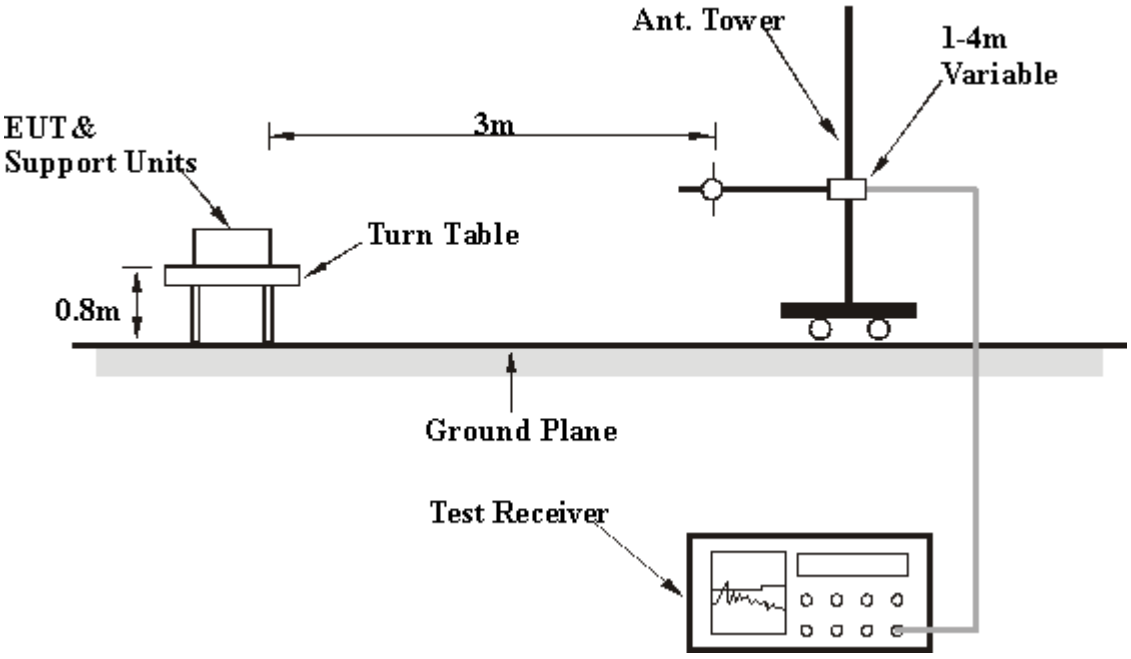
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS (A.1)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	110.00	37.4 QP	43.50	-6.10	1.30 H	215	24.50	12.80
2	132.00	37.1 QP	43.50	-6.40	1.48 H	53	24.50	12.70
3	154.00	36.5 QP	43.50	-7.00	1.11 H	316	25.30	11.20
4	176.01	36.6 QP	43.50	-6.90	1.27 H	3	26.00	10.60
5	176.01	39.2 QP	43.50	-4.30	1.27 H	40	28.60	10.60
6	220.01	36.3 QP	46.00	-9.70	1.62 H	243	23.50	12.80
7	263.99	40.9 QP	46.00	-5.10	1.24 H	77	24.20	16.70
8	351.99	40.1 QP	46.00	-5.90	1.14 H	156	22.40	17.70
9	527.99	37.9 QP	46.00	-8.10	1.01 H	3	16.70	21.10
10	571.99	37.6 QP	46.00	-8.40	1.37 H	42	15.80	21.80
11	615.99	35.2 QP	46.00	-10.80	1.25 H	357	12.50	22.70
12	659.99	34.2 QP	46.00	-11.80	1.48 H	67	11.30	22.80
13	704.00	40.8 QP	46.00	-5.20	1.20 H	3	17.70	23.10
14	748.00	43.9 QP	46.00	-2.10	1.41 H	165	19.80	24.10
15	792.00	36.6 QP	46.00	-9.40	1.13 H	337	11.90	24.80
16	836.00	36.9 QP	46.00	-9.10	1.25 H	37	11.90	25.00

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
PRE AMPLIFIER	GATAX	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	110.00	33.2 QP	43.50	-10.30	1.50 V	3	20.40	12.80
2	132.00	31.8 QP	43.50	-11.70	1.38 V	15	19.10	12.70
3	154.00	33.8 QP	43.50	-9.70	1.02 V	3	22.50	11.20
4	176.00	34.0 QP	43.50	-9.50	1.09 V	34	23.40	10.60
5	264.00	32.2 QP	46.00	-13.80	1.30 V	2	15.60	16.70
6	352.00	29.9 QP	46.00	-16.10	1.10 V	60	12.20	17.70
7	440.00	28.5 QP	46.00	-17.50	1.47 V	335	8.90	19.60
8	528.00	32.2 QP	46.00	-13.80	1.00 V	191	11.10	21.10
9	572.00	33.0 QP	46.00	-13.00	1.32 V	39	11.20	21.80
10	660.00	30.4 QP	46.00	-15.60	1.38 V	129	7.60	22.80
11	704.00	35.8 QP	46.00	-10.20	1.03 V	29	12.70	23.10
12	748.00	37.5 QP	46.00	-8.50	1.37 V	293	13.40	24.10
13	792.00	32.1 QP	46.00	-13.90	1.30 V	41	7.30	24.80

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	109.9 PK			1.10 H	47	77.10	32.80
1	*2412.00	99.4 AV			1.10 H	47	66.70	32.80
2	4824.00	52.2 PK	74.00	-21.80	1.38 H	357	15.20	36.90
2	4824.00	42.2 AV	54.00	-11.80	1.38 H	357	5.20	36.90
3	7236.00	54.8 PK	74.00	-19.20	1.14 H	43	13.30	41.40
3	7236.00	40.4 AV	54.00	-13.60	1.14 H	43	-1.10	41.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	112.5 PK			1.17 V	24	79.80	32.80
1	*2412.00	102.1 AV			1.17 V	24	69.40	32.80
2	4824.00	50.3 PK	74.00	-23.70	1.11 V	32	13.30	36.90
2	4824.00	40.7 AV	54.00	-13.30	1.11 V	32	3.70	36.90
3	7235.00	57.4 PK	74.00	-16.60	1.35 V	114	15.90	41.40
3	7235.00	46.8 AV	54.00	-7.20	1.35 V	114	5.30	41.40
4	9647.00	60.0 PK	74.00	-14.00	1.14 V	43	16.60	43.40
4	9647.00	49.6 AV	54.00	-4.40	1.14 V	43	6.20	43.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.7 PK			1.48 H	41	73.90	32.80
1	*2437.00	96.9 AV			1.48 H	41	64.10	32.80
2	4874.00	47.8 PK	74.00	-26.20	1.12 H	245	10.60	37.10
3	7311.00	54.2 PK	74.00	-19.80	1.38 H	45	12.60	41.50
3	7311.00	43.5 AV	54.00	-10.50	1.38 H	45	1.90	37.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	111.0 PK			1.10 V	37	78.20	32.80
1	*2437.00	101.7 AV			1.10 V	37	68.90	32.80
2	4874.00	51.8 PK	74.00	-22.20	1.34 V	354	14.60	37.10
2	4874.00	41.2 AV	54.00	-12.80	1.34 V	354	4.00	37.10
3	7312.00	57.1 PK	74.00	-16.90	1.11 V	29	15.60	41.60
3	7312.00	47.5 AV	54.00	-6.50	1.11 V	29	5.90	41.60
4	9748.00	61.1 PK	74.00	-12.90	1.33 V	54	17.80	43.30
4	9748.00	50.4 AV	54.00	-3.60	1.33 V	54	7.10	43.30

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.4 PK			1.01 H	56	76.60	32.90
1	*2462.00	99.5 AV			1.01 H	56	66.70	32.90
2	4924.00	52.1 PK	74.00	-21.90	1.55 H	354	14.70	37.30
2	4924.00	43.1 AV	54.00	-10.90	1.55 H	354	5.70	37.30
3	7386.00	52.1 PK	74.00	-21.90	1.16 H	25	10.50	41.70
3	7386.00	42.3 AV	54.00	-11.70	1.16 H	25	0.70	41.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	111.5 PK			1.69 V	6	78.70	32.90
1	*2463.00	99.7 AV			1.69 V	6	66.90	32.90
2	4924.00	51.2 PK	74.00	-22.80	1.37 V	45	13.80	37.30
2	4924.00	42.4 AV	54.00	-11.60	1.37 V	45	5.00	37.30
3	7386.00	55.1 PK	74.00	-18.90	1.14 V	321	13.50	41.70
3	7386.00	45.5 AV	54.00	-8.50	1.14 V	321	3.90	41.70
4	9847.00	58.4 PK	74.00	-15.60	1.51 V	264	15.20	43.20
4	9847.00	48.8 AV	54.00	-5.20	1.51 V	264	5.60	43.20

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.8 TEST RESULTS (A.2)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.00	28.5 QP	43.50	-15.00	1.39 H	329	15.80	12.70
2	176.00	37.9 QP	43.50	-5.60	1.51 H	282	27.30	10.60
3	264.00	44.2 QP	46.00	-1.80	1.18 H	325	27.50	16.70
4	286.00	43.0 QP	46.00	-3.00	1.16 H	188	26.40	16.60
5	308.00	41.1 QP	46.00	-4.90	1.23 H	214	24.20	16.90
6	330.02	40.8 QP	46.00	-5.20	1.17 H	207	23.50	17.30
7	352.00	43.3 QP	46.00	-2.70	1.25 H	60	25.60	17.70
8	528.00	36.9 QP	46.00	-9.10	1.69 H	176	15.80	21.10
9	615.99	34.9 QP	46.00	-11.10	1.31 H	210	12.20	22.70
10	659.99	34.0 QP	46.00	-12.00	1.17 H	4	11.10	22.80
11	704.00	39.8 QP	46.00	-6.20	1.34 H	147	16.70	23.10
12	748.00	43.4 QP	46.00	-2.60	1.23 H	75	19.30	24.10
13	835.99	35.8 QP	46.00	-10.20	1.01 H	255	10.80	25.00
14	835.99	35.2 QP	46.00	-10.80	1.40 H	247	10.20	25.00

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000 MHz
PRE AMPLIFIER	GATAX	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.01	26.8 QP	43.50	-16.70	1.02 V	281	16.20	10.60
2	242.01	31.6 QP	46.00	-14.40	1.32 V	357	16.80	14.90
3	264.00	35.8 QP	46.00	-10.20	1.17 V	243	19.20	16.70
4	286.02	34.5 QP	46.00	-11.50	1.56 V	193	17.90	16.60
5	308.01	30.5 QP	46.00	-15.50	1.24 V	46	13.60	16.90
6	439.99	29.6 QP	46.00	-16.40	1.20 V	145	9.90	19.60
7	571.98	30.4 QP	46.00	-15.60	1.26 V	333	8.60	21.80
8	616.02	29.7 QP	46.00	-16.30	1.27 V	50	7.00	22.70
9	659.99	31.9 QP	46.00	-14.10	1.40 V	136	9.10	22.80
10	704.00	36.2 QP	46.00	-9.80	1.37 V	0	13.10	23.10
11	748.01	39.0 QP	46.00	-7.00	1.66 V	171	14.90	24.10
12	836.01	32.5 QP	46.00	-13.50	1.07 V	50	7.50	25.00

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	102.8 PK			1.12 H	45	70.00	32.80
1	*2412.00	93.5 AV			1.12 H	45	60.80	32.80
2	4824.00	48.6 PK	74.00	-25.40	1.54 H	241	11.60	36.90
3	7236.00	51.6 PK	74.00	-22.40	1.23 H	34	10.10	41.40
3	7236.00	41.4 AV	54.00	-12.60	1.23 H	34	-0.10	36.90
4	9648.00	55.0 PK	74.00	-19.00	1.08 H	54	11.60	43.40
4	9648.00	45.0 AV	54.00	-9.00	1.08 H	54	1.60	41.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	106.0 PK			1.20 V	40	73.30	32.80
1	*2412.00	97.3 AV			1.20 V	40	64.60	32.80
2	4824.00	48.4 PK	74.00	-25.60	1.24 V	55	11.40	36.90
3	7236.00	52.9 PK	74.00	-21.10	1.08 V	45	11.40	41.40
3	7236.00	45.2 AV	54.00	-8.80	1.08 V	45	3.70	36.90
4	9647.00	59.0 PK	74.00	-15.00	1.30 V	16	15.60	43.40
4	9647.00	49.0 AV	54.00	-5.00	1.30 V	16	5.60	41.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	104.1 PK			1.05 H	349	71.20	32.80
1	*2437.00	95.2 AV			1.05 H	349	62.40	32.80
2	4874.00	48.0 PK	74.00	-26.00	1.23 H	27	10.80	37.10
3	7310.00	50.8 PK	74.00	-23.20	1.10 H	142	9.30	41.50
3	7310.00	40.3 AV	54.00	-13.70	1.10 H	142	-1.30	37.10
4	9747.00	53.0 PK	74.00	-21.00	1.30 H	54	9.70	43.30
4	9747.00	44.9 AV	54.00	-9.10	1.30 H	54	1.60	41.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	105.7 PK			1.28 V	27	72.90	32.80
1	*2437.00	96.8 AV			1.28 V	27	64.00	32.80
2	4874.00	49.2 PK	74.00	-24.80	1.04 V	84	12.00	37.10
3	7311.00	52.7 PK	74.00	-21.30	1.35 V	74	11.10	41.50
3	7311.00	44.9 AV	54.00	-9.10	1.35 V	74	3.30	37.10
4	9747.00	57.7 PK	74.00	-16.30	1.08 V	17	14.40	43.30
4	9747.00	46.3 AV	54.00	-7.70	1.08 V	17	3.00	41.50

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	102.2 PK			1.00 H	172	69.40	32.90
1	*2463.00	92.7 AV			1.00 H	172	59.90	32.90
2	4924.00	49.6 PK	74.00	-24.40	1.52 H	74	12.20	37.30
3	7386.00	50.8 PK	74.00	-23.20	1.26 H	45	9.20	41.70
3	7386.00	42.0 AV	54.00	-12.00	1.26 H	45	0.40	37.30
4	9849.00	52.8 PK	74.00	-21.20	1.08 H	250	9.60	43.20
4	9849.00	44.3 AV	54.00	-9.70	1.08 H	250	1.10	41.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	106.7 PK			1.25 V	28	73.90	32.90
1	*2463.00	97.1 AV			1.25 V	28	64.30	32.90
2	4924.00	51.3 PK	74.00	-22.70	1.40 V	247	13.90	37.30
2	4924.00	41.6 AV	54.00	-12.40	1.40 V	247	4.20	37.30
3	7387.00	55.1 PK	74.00	-18.90	1.20 V	54	13.50	41.70
3	7387.00	45.5 AV	54.00	-8.50	1.20 V	54	3.90	41.70
4	9849.00	53.8 PK	74.00	-20.20	1.38 V	98	10.60	43.20
4	9849.00	46.3 AV	54.00	-7.70	1.38 V	98	3.10	43.20

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.9 TEST RESULTS (A.3)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	154.00	37.0 QP	43.50	-6.50	1.37 H	267	25.80	11.20
2	176.00	41.4 QP	43.50	-2.10	1.21 H	31	30.80	10.60
3	242.00	34.2 QP	46.00	-11.80	1.31 H	137	19.40	14.90
4	264.00	42.2 QP	46.00	-3.80	1.13 H	3	25.60	16.70
5	286.01	34.2 QP	46.00	-11.80	1.53 H	359	17.60	16.60
6	352.01	41.5 QP	46.00	-4.50	1.09 H	86	23.70	17.70
7	373.99	32.8 QP	46.00	-13.20	1.11 H	279	14.40	18.40
8	440.00	33.0 QP	46.00	-13.00	1.10 H	56	13.30	19.60
9	527.99	35.4 QP	46.00	-10.60	1.05 H	310	14.30	21.10
10	616.01	38.7 QP	46.00	-7.30	1.43 H	26	16.00	22.70
11	660.01	33.0 QP	46.00	-13.00	1.12 H	313	10.10	22.80
12	704.01	43.7 QP	46.00	-2.30	1.50 H	82	20.60	23.10
13	748.00	43.4 QP	46.00	-2.60	1.21 H	31	19.30	24.10
14	791.99	39.6 QP	46.00	-6.40	1.09 H	4	14.90	24.80

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000 MHz
PRE AMPLIFIER	MAXIM	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.02	29.9 QP	43.50	-13.60	1.16 V	29	17.30	12.70
2	176.02	36.7 QP	43.50	-6.80	1.42 V	259	26.10	10.60
3	263.99	31.4 QP	46.00	-14.60	1.18 V	132	14.80	16.70
4	285.99	30.6 QP	46.00	-15.40	1.58 V	5	14.00	16.60
5	374.00	27.4 QP	46.00	-18.60	1.32 V	106	9.00	18.40
6	439.99	31.8 QP	46.00	-14.20	1.30 V	3	12.10	19.60
7	528.03	31.5 QP	46.00	-14.50	1.34 V	36	10.40	21.10
8	572.00	31.1 QP	46.00	-14.90	1.05 V	332	9.30	21.80
9	704.00	38.4 QP	46.00	-7.60	1.07 V	6	15.30	23.10
10	748.00	42.2 QP	46.00	-3.80	1.00 V	354	18.10	24.10
11	791.97	35.6 QP	46.00	-10.40	1.53 V	30	10.90	24.80
12	835.99	33.0 QP	46.00	-13.00	1.19 V	4	8.00	25.00

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	104.2 PK			1.23 H	317	71.50	32.80
1	*2412.00	93.7 AV			1.23 H	317	61.00	32.80
2	4824.00	46.2 PK	74.00	-27.80	1.22 H	36	9.20	36.90
3	7236.00	49.4 PK	74.00	-24.60	1.66 H	74	7.90	41.40
4	9647.00	53.0 PK	74.00	-21.00	1.52 H	32	9.60	43.40
4	9647.00	45.0 AV	54.00	-9.00	1.52 H	32	1.60	36.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	113.6 PK			1.09 V	14	80.90	32.80
1	*2412.00	103.6 AV			1.09 V	14	70.90	32.80
2	4824.00	47.2 PK	74.00	-26.80	1.14 V	325	10.20	36.90
3	7237.00	50.4 PK	74.00	-23.60	1.10 V	44	8.90	41.40
3	7237.00	41.4 AV	54.00	-12.60	1.10 V	44	-0.10	36.90
4	9649.00	52.0 PK	74.00	-22.00	1.13 V	357	8.60	43.40
4	9649.00	42.0 AV	54.00	-12.00	1.13 V	357	-1.40	41.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	104.1 PK			1.25 H	307	71.30	32.80
1	*2437.00	95.5 AV			1.25 H	307	62.70	32.80
2	4874.00	46.4 PK	74.00	-27.60	1.22 H	27	9.20	37.10
3	7311.00	49.7 PK	74.00	-24.30	1.10 H	51	8.10	41.50
4	9748.00	51.7 PK	74.00	-22.30	1.29 H	28	8.40	43.30
4	9748.00	42.3 AV	54.00	-11.70	1.29 H	28	-1.00	37.10

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	112.5 PK			1.31 V	47	79.70	32.80
1	*2437.00	101.8 AV			1.31 V	47	69.00	32.80
2	4874.00	45.4 PK	74.00	-28.60	1.30 V	23	8.20	37.10
3	7313.00	49.9 PK	74.00	-24.10	1.20 V	54	8.30	41.60
4	9747.00	51.4 PK	74.00	-22.60	1.18 V	28	8.10	43.30
4	9747.00	40.9 AV	54.00	-13.10	1.18 V	28	-2.40	37.10

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	106.7 PK			1.02 H	352	73.90	32.90
1	*2463.00	95.5 AV			1.02 H	352	62.70	32.90
2	4924.00	46.3 PK	74.00	-27.70	1.21 H	358	8.90	37.30
3	7388.00	51.5 PK	74.00	-22.50	1.23 H	247	9.90	41.70
3	7388.00	41.9 AV	54.00	-12.10	1.23 H	247	0.30	37.30
4	9851.00	51.2 PK	74.00	-22.80	1.14 H	32	8.00	43.20
4	9851.00	42.8 AV	54.00	-11.20	1.14 H	32	-0.40	41.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	114.7 PK			1.41 V	325	81.90	32.90
1	*2463.00	103.7 AV			1.41 V	325	70.90	32.90
2	4924.00	45.8 PK	74.00	-28.20	1.10 V	45	8.40	37.30
3	7387.00	50.9 PK	74.00	-23.10	1.31 V	22	9.30	41.70
3	7387.00	41.5 AV	54.00	-12.50	1.31 V	22	-0.10	37.30
4	9850.00	52.5 PK	74.00	-21.50	1.15 V	324	9.30	43.20
4	9850.00	41.8 AV	54.00	-12.20	1.15 V	324	-1.40	41.70

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.10 TEST RESULTS (A.4)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	154.01	29.0 QP	43.50	-14.50	1.34 H	222	17.70	11.20
2	176.01	37.0 QP	43.50	-6.50	1.56 H	271	26.40	10.60
3	220.01	35.1 QP	46.00	-10.90	1.15 H	263	22.30	12.80
4	242.00	40.0 QP	46.00	-6.00	1.27 H	6	25.10	14.90
5	264.00	43.7 QP	46.00	-2.30	1.03 H	26	27.00	16.70
6	286.04	43.3 QP	46.00	-2.70	1.26 H	99	26.70	16.60
7	307.98	37.6 QP	46.00	-8.40	1.24 H	180	20.60	16.90
8	352.01	42.0 QP	46.00	-4.00	1.00 H	185	24.20	17.70
9	374.00	33.7 QP	46.00	-12.30	1.27 H	15	15.30	18.40
10	396.00	31.0 QP	46.00	-15.00	1.17 H	115	12.00	19.00
11	484.01	29.9 QP	46.00	-16.10	1.04 H	41	9.20	20.70
12	484.01	29.9 QP	46.00	-16.10	1.04 H	0	9.20	20.70
13	571.99	30.5 QP	46.00	-15.50	1.15 H	8	8.70	21.80
14	659.99	34.2 QP	46.00	-11.80	1.35 H	56	11.40	22.80
15	703.99	42.3 QP	46.00	-3.70	1.52 H	279	19.20	23.10
16	747.97	43.2 QP	46.00	-2.80	1.39 H	90	19.10	24.10
17	791.99	39.1 QP	46.00	-6.90	1.18 H	261	14.30	24.80
18	835.99	36.1 QP	46.00	-9.90	1.20 H	106	11.10	25.00

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000 MHz
PRE AMPLIFIER	MAXIM	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	132.00	27.6 QP	43.50	-15.90	1.34 V	181	14.90	12.70
2	154.00	29.3 QP	43.50	-14.20	1.02 V	348	18.10	11.20
3	176.00	31.2 QP	43.50	-12.30	1.28 V	93	20.50	10.60
4	264.00	37.4 QP	46.00	-8.60	1.45 V	4	20.70	16.70
5	308.02	29.8 QP	46.00	-16.20	1.53 V	71	12.90	16.90
6	330.02	32.0 QP	46.00	-14.00	1.24 V	241	14.70	17.30
7	352.00	32.0 QP	46.00	-14.00	1.70 V	142	14.30	17.70
8	440.03	30.9 QP	46.00	-15.10	1.55 V	230	11.20	19.60
9	483.97	27.2 QP	46.00	-18.80	1.47 V	72	6.50	20.70
10	528.01	31.6 QP	46.00	-14.40	1.33 V	264	10.50	21.10
11	572.01	30.4 QP	46.00	-15.60	1.14 V	40	8.60	21.80
12	704.01	38.9 QP	46.00	-7.10	1.44 V	3	15.80	23.10
13	748.00	41.6 QP	46.00	-4.40	1.27 V	3	17.50	24.10
14	792.01	35.6 QP	46.00	-10.40	1.17 V	131	10.90	24.80

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1000 MHz
PRE AMPLIFIER	MAXIM	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	110.6 PK			1.08 H	24	77.90	32.80
1	*2412.00	101.3 AV			1.08 H	24	68.60	32.80
2	4824.00	57.7 PK	74.00	-16.30	1.20 H	113	20.70	36.90
2	4824.00	47.2 AV	54.00	-6.80	1.20 H	113	10.30	36.90
3	7235.00	51.4 PK	74.00	-22.60	1.37 H	47	9.90	41.40
3	7235.00	42.5 AV	54.00	-11.50	1.37 H	47	1.00	41.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2412.00	113.6 PK			1.33 V	324	80.90	32.80
1	*2412.00	103.8 AV			1.33 V	324	71.10	32.80
2	4824.00	55.2 PK	74.00	-18.80	1.03 V	26	18.20	36.90
2	4824.00	44.4 AV	54.00	-9.60	1.03 V	26	7.40	36.90
3	7234.00	53.0 PK	74.00	-21.00	1.30 V	24	11.50	41.40
3	7234.00	44.4 AV	54.00	-9.60	1.30 V	24	2.90	41.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 60 % RH, 1050 hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.9 PK			1.12 H	100	78.10	32.80
1	*2437.00	101.4 AV			1.12 H	100	68.60	32.80
2	4874.00	58.4 PK	74.00	-15.60	1.70 H	21	21.20	37.10
2	4874.00	48.4 AV	54.00	-5.60	1.70 H	21	11.20	37.10
3	7310.00	41.3 PK	74.00	-32.70	1.25 H	54	-0.30	41.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	113.4 PK			1.00 V	55	80.60	32.80
1	*2437.00	104.1 AV			1.00 V	55	71.30	32.80
2	4874.00	54.4 PK	74.00	-19.60	1.36 V	74	17.20	37.10
2	4874.00	45.2 AV	54.00	-8.80	1.36 V	74	8.00	37.10
3	7317.00	52.6 PK	74.00	-21.40	1.41 V	52	11.00	41.60
3	7317.00	45.5 AV	54.00	-8.50	1.41 V	52	3.90	41.60

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Gary Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	110.2 PK			1.23 H	58	77.40	32.90
1	*2463.00	101.1 AV			1.23 H	58	68.30	32.90
2	4924.00	54.8 PK	74.00	-19.20	1.14 H	44	17.40	37.30
2	4924.00	45.6 AV	54.00	-8.40	1.14 H	44	8.20	37.30
3	7386.00	52.8 PK	74.00	-21.20	1.23 H	257	11.20	41.70
3	7386.00	44.9 AV	54.00	-9.10	1.23 H	257	3.30	41.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2463.00	113.3 PK			1.44 V	215	80.50	32.90
1	*2463.00	104.1 AV			1.44 V	215	71.30	32.90
2	4924.00	53.4 PK	74.00	-20.60	1.32 V	45	16.00	37.30
2	4924.00	41.6 AV	54.00	-12.40	1.32 V	45	4.20	37.30
3	7386.00	53.5 PK	74.00	-20.50	1.44 V	215	11.90	41.70
3	7386.00	45.3 AV	54.00	-8.70	1.44 V	215	3.70	41.70

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.11 TEST RESULTS (B.1)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	40.3 QP	43.50	-3.20	1.33 H	265	14.80	25.50
2	220.00	37.4 QP	46.00	-8.60	1.61 H	208	11.90	25.50
3	308.00	40.6 QP	46.00	-5.40	1.29 H	50	15.10	25.50
4	528.00	35.5 QP	46.00	-10.50	1.48 H	168	10.00	25.50
5	748.00	30.2 QP	46.00	-15.80	1.85 H	56	4.70	25.50
6	836.00	37.3 QP	46.00	-8.70	1.54 H	22	11.80	25.50
7	924.00	25.3 QP	46.00	-20.70	1.30 H	258	-0.20	25.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	35.5 QP	43.50	-8.00	1.23 V	64	10.00	25.50
2	308.00	33.3 QP	46.00	-12.70	1.58 V	50	7.80	25.50
3	396.00	32.2 QP	46.00	-13.80	1.25 V	69	6.70	25.50
4	440.00	30.8 QP	46.00	-15.20	1.60 V	258	5.30	25.50
5	616.00	30.0 QP	46.00	-16.00	1.20 V	287	4.50	25.50
6	748.00	33.8 QP	46.00	-12.20	1.36 V	58	8.30	25.50
7	924.00	30.8 QP	46.00	-15.20	1.58 V	157	5.30	25.50

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	50.4 PK	74.00	-23.60	1.23 H	12	20.80	29.60
1	2390.00	38.9 AV	54.00	-15.10	1.23 H	12	9.30	29.60
2	*2412.00	105.8 PK			1.23 H	12	76.20	29.60
2	*2412.00	96.6 AV			1.23 H	12	66.90	29.60
3	4824.00	49.3 PK	74.00	-24.70	1.37 H	326	14.30	35.00
4	7236.00	50.3 PK	74.00	-23.70	1.54 H	34	9.90	40.40
4	7236.00	41.9 AV	54.00	-12.10	1.54 H	34	1.50	35.00
5	9648.00	58.8 PK	74.00	-15.20	1.87 H	147	15.30	43.50
5	9648.00	48.2 AV	54.00	-5.80	1.87 H	147	4.70	40.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.8 PK	74.00	-16.20	1.34 V	21	28.20	29.60
1	2390.00	47.2 AV	54.00	-6.80	1.34 V	21	17.60	29.60
2	*2412.00	112.1 PK			1.34 V	21	82.50	29.60
2	*2412.00	102.4 AV			1.34 V	21	72.80	29.60
3	4824.00	45.5 PK	74.00	-28.50	1.26 V	351	10.50	35.00
4	7236.00	50.3 PK	74.00	-23.70	1.28 V	48	9.90	40.40
4	7236.00	39.8 AV	54.00	-14.20	1.28 V	48	-0.60	35.00
5	9648.00	60.8 PK	74.00	-13.20	1.48 V	245	17.30	43.50
5	9648.00	49.9 AV	54.00	-4.10	1.48 V	245	6.40	40.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	105.0 PK			1.20 H	111	75.30	29.70
1	*2437.00	96.2 AV			1.20 H	111	66.50	29.70
2	4874.00	48.1 PK	74.00	-25.90	1.44 H	15	12.90	35.20
3	7311.00	48.4 PK	74.00	-25.60	1.10 H	360	7.90	40.50
4	9748.00	57.7 PK	74.00	-16.30	1.75 H	44	14.20	43.50
4	9748.00	48.9 AV	54.00	-5.10	1.75 H	44	5.40	35.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	112.0 PK			1.23 V	38	82.30	29.70
1	*2437.00	102.5 AV			1.23 V	38	72.80	29.70
2	4874.00	45.1 PK	74.00	-28.90	1.40 V	70	9.90	35.20
3	7311.00	50.4 PK	74.00	-23.60	1.64 V	130	9.90	40.50
3	7311.00	37.4 AV	54.00	-16.60	1.64 V	130	-3.10	35.20
4	9748.00	55.4 PK	74.00	-18.60	1.56 V	34	11.90	43.50
4	9748.00	46.7 AV	54.00	-7.30	1.56 V	34	3.20	40.50

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.1 PK			1.23 H	120	76.30	29.80
1	*2462.00	97.6 AV			1.23 H	120	67.80	29.80
2	2484.00	54.1 PK	74.00	-19.90	1.23 H	120	24.20	29.90
2	2484.00	43.7 AV	54.00	-10.30	1.23 H	120	13.80	29.90
3	4924.00	47.3 PK	74.00	-26.70	1.70 H	157	11.90	35.40
4	7386.00	54.0 PK	74.00	-20.00	1.12 H	2	13.30	40.60
4	7386.00	43.0 AV	54.00	-11.00	1.12 H	2	2.30	35.40
5	9848.00	56.9 PK	74.00	-17.10	1.35 H	115	13.40	43.60
5	9848.00	48.1 AV	54.00	-5.90	1.35 H	115	4.60	40.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	113.1 PK			1.30 V	20	83.30	29.80
1	*2462.00	103.7 AV			1.30 V	20	73.90	29.80
2	2484.00	50.7 PK	74.00	-23.30	1.30 V	20	20.80	29.90
2	2484.00	48.4 AV	54.00	-5.60	1.30 V	20	18.50	29.90
3	4924.00	47.1 PK	74.00	-26.90	1.34 V	14	11.70	35.40
4	7236.00	49.1 PK	74.00	-24.90	1.12 V	142	8.70	40.40
5	9848.00	60.2 PK	74.00	-13.80	1.58 V	154	16.60	43.60
5	9848.00	49.1 AV	54.00	-4.90	1.58 V	154	5.60	35.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.12 TEST RESULTS (B.2)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	39.6 QP	43.50	-3.90	1.97 H	116	29.00	10.60
2	220.01	38.4 QP	46.00	-7.60	1.44 H	2	25.60	12.80
3	308.01	42.1 QP	46.00	-3.90	1.13 H	283	25.20	16.90
4	528.00	32.8 QP	46.00	-13.20	2.04 H	239	11.60	21.10
5	748.00	33.3 QP	46.00	-12.70	1.29 H	204	9.20	24.10
6	836.00	37.0 QP	46.00	-9.00	1.07 H	273	12.00	25.00
7	924.00	38.2 QP	46.00	-7.80	1.20 H	216	13.20	25.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	175.99	34.6 QP	43.50	-8.90	1.00 V	97	24.00	10.60
2	308.00	30.2 QP	46.00	-15.80	1.71 V	46	13.30	16.90
3	396.00	30.0 QP	46.00	-16.00	1.83 V	279	11.00	19.00
4	440.01	28.8 QP	46.00	-17.20	1.36 V	180	9.20	19.60
5	616.00	31.2 QP	46.00	-14.80	1.63 V	305	8.50	22.70
6	748.00	34.0 QP	46.00	-12.00	1.44 V	191	9.90	24.10
7	924.00	34.5 QP	46.00	-11.50	1.95 V	235	9.50	25.00

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	52.5 PK	74.00	-21.50	1.00 H	15	22.90	29.60
1	2390.00	43.5 AV	54.00	-10.50	1.00 H	15	13.90	29.60
2	*2412.00	107.1 PK			1.00 H	15	77.50	29.60
2	*2412.00	97.2 AV			1.00 H	15	67.60	29.60
3	4824.00	47.9 PK	74.00	-26.10	1.43 H	360	12.90	35.00
4	7236.00	48.9 PK	74.00	-25.10	1.38 H	322	8.50	40.40
5	9648.00	57.4 PK	74.00	-16.60	1.94 H	157	13.90	43.50
5	9648.00	46.4 AV	54.00	-7.60	1.94 H	157	2.90	35.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	51.5 PK	74.00	-22.50	1.45 V	36	21.90	29.60
1	2390.00	40.5 AV	54.00	-13.50	1.45 V	36	10.90	29.60
2	*2412.00	102.8 PK			1.45 V	36	73.20	29.60
2	*2412.00	93.4 AV			1.45 V	36	63.80	29.60
3	4824.00	48.4 PK	74.00	-25.60	1.21 V	23	13.50	35.00
4	7236.00	50.5 PK	74.00	-23.50	1.50 V	246	10.10	40.40
4	7236.00	40.8 AV	54.00	-13.20	1.50 V	246	0.40	35.00
5	9648.00	55.2 PK	74.00	-18.80	1.12 V	54	11.70	43.50
5	9648.00	45.9 AV	54.00	-8.10	1.12 V	54	2.40	40.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.0 PK			1.32 H	25	76.30	29.70
1	*2437.00	96.8 AV			1.32 H	25	67.10	29.70
2	4874.00	45.1 PK	74.00	-28.90	1.48 H	349	9.90	35.20
3	7311.00	49.8 PK	74.00	-24.20	1.32 H	2	9.30	40.50
4	9748.00	56.2 PK	74.00	-17.80	1.34 H	42	12.70	43.50
4	9748.00	43.8 AV	54.00	-10.20	1.34 H	42	0.30	35.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.4 PK			1.22 V	22	72.70	29.70
1	*2437.00	93.5 AV			1.22 V	22	63.80	29.70
2	4874.00	43.9 PK	74.00	-30.10	1.40 V	344	8.70	35.20
3	7311.00	54.4 PK	74.00	-19.60	1.21 V	200	13.90	40.50
3	7311.00	44.2 AV	54.00	-9.80	1.21 V	200	3.70	35.20
4	9748.00	56.2 PK	74.00	-17.80	1.89 V	106	12.70	43.50
4	9748.00	45.6 AV	54.00	-8.40	1.89 V	106	2.10	40.50

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	GATAX	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.6 PK			1.20 H	15	76.80	29.80
1	*2462.00	97.4 AV			1.20 H	15	67.60	29.80
2	2484.00	55.0 PK	74.00	-19.00	1.20 H	15	25.10	29.90
2	2484.00	44.5 AV	54.00	-9.50	1.20 H	15	14.60	29.90
3	4924.00	44.4 PK	74.00	-29.60	1.00 H	158	9.00	35.40
4	7386.00	50.5 PK	74.00	-23.50	1.20 H	326	9.80	40.60
4	7386.00	39.0 AV	54.00	-15.00	1.20 H	326	-1.70	35.40
5	9848.00	56.8 PK	74.00	-17.20	1.54 H	54	13.30	43.60
5	9848.00	46.6 AV	54.00	-7.40	1.54 H	54	3.10	40.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.6 PK			1.87 V	125	73.80	29.80
1	*2462.00	94.1 AV			1.87 V	125	64.30	29.80
2	2484.00	49.7 PK	74.00	-24.30	1.87 V	125	19.80	29.90
3	4924.00	48.3 PK	74.00	-25.70	1.52 V	320	12.90	35.40
4	7386.00	48.4 PK	74.00	-25.60	1.22 V	115	7.80	40.60
5	9848.00	57.3 PK	74.00	-16.70	1.68 V	45	13.80	43.60
5	9848.00	48.0 AV	54.00	-6.00	1.68 V	45	4.50	29.90

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.13 TEST RESULTS (B.3)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	42.8 QP	43.50	-0.70	2.14 H	29	32.10	10.60
2	220.00	38.5 QP	46.00	-7.50	2.04 H	355	25.60	12.80
3	264.00	33.0 QP	46.00	-13.00	1.19 H	47	16.40	16.70
4	440.01	31.1 QP	46.00	-14.90	2.44 H	287	11.50	19.60
5	528.01	33.5 QP	46.00	-12.50	1.94 H	27	12.30	21.10
6	572.02	33.1 QP	46.00	-12.90	2.07 H	187	11.30	21.80
7	704.00	36.6 QP	46.00	-9.40	1.50 H	239	13.50	23.10
8	748.00	41.0 QP	46.00	-5.00	1.52 H	257	16.90	24.10
9	836.00	34.1 QP	46.00	-11.90	1.79 H	339	9.00	25.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.02	38.1 QP	43.50	-5.40	1.00 V	117	27.50	10.60
2	440.01	29.5 QP	46.00	-16.50	1.96 V	159	9.80	19.60
3	528.01	34.1 QP	46.00	-11.90	2.21 V	157	13.00	21.10
4	572.02	31.4 QP	46.00	-14.60	1.08 V	341	9.60	21.80
5	748.00	40.3 QP	46.00	-5.70	1.00 V	342	16.20	24.10
6	792.00	33.3 QP	46.00	-12.70	1.73 V	125	8.50	24.80
7	924.02	30.2 QP	46.00	-15.80	1.60 V	284	5.20	25.00

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	53.2 PK	74.00	-20.80	1.26 H	3	23.60	29.60
1	2390.00	42.1 AV	54.00	-11.90	1.26 H	3	12.50	29.60
2	*2412.00	109.1 PK			1.48 H	6	79.50	29.60
2	*2412.00	100.2 AV			1.48 H	6	70.60	29.60
3	4824.00	46.2 PK	74.00	-27.80	2.03 H	254	11.20	35.00
4	7236.00	53.3 PK	74.00	-20.70	1.56 H	200	12.90	40.40
4	7236.00	42.8 AV	54.00	-11.20	1.56 H	200	2.40	35.00
5	9648.00	53.8 PK	74.00	-20.20	1.20 H	45	10.30	43.50
5	9648.00	44.6 AV	54.00	-9.40	1.20 H	45	1.10	40.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.00	-17.20	1.25 V	45	27.20	29.60
1	2390.00	47.7 AV	54.00	-6.30	1.25 V	45	18.10	29.60
2	*2412.00	112.1 PK			1.25 V	45	82.50	29.60
2	*2412.00	103.5 AV			1.25 V	45	73.90	29.60
3	4824.00	48.8 PK	74.00	-25.20	1.23 V	1	13.80	35.00
4	7236.00	56.2 PK	74.00	-17.80	1.36 V	4	15.80	40.40
4	7236.00	47.6 AV	54.00	-6.40	1.36 V	4	7.20	35.00
5	9648.00	61.9 PK	74.00	-12.10	1.84 V	268	18.40	43.50
5	9648.00	51.8 AV	54.00	-2.20	1.84 V	268	8.30	40.40

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	107.2 PK			1.68 H	45	77.50	29.70
1	*2437.00	97.3 AV			1.68 H	45	67.60	29.70
2	4874.00	48.7 PK	74.00	-25.30	1.63 H	236	13.50	35.20
3	7311.00	55.5 PK	74.00	-18.50	1.20 H	189	15.00	40.50
3	7311.00	46.3 AV	54.00	-7.70	1.20 H	189	5.80	35.20
4	9748.00	56.4 PK	74.00	-17.60	1.75 H	26	12.90	43.50
4	9748.00	48.1 AV	54.00	-5.90	1.75 H	26	4.60	40.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	111.9 PK			1.20 V	22	82.20	29.70
1	*2437.00	102.5 AV			1.20 V	22	72.80	29.70
2	4874.00	48.6 PK	74.00	-25.40	1.56 V	236	13.40	35.20
3	7311.00	52.3 PK	74.00	-21.70	1.43 V	32	11.80	40.50
3	7311.00	42.9 AV	54.00	-11.10	1.43 V	32	2.40	35.20
4	9748.00	55.4 PK	74.00	-18.60	1.06 V	5	11.90	43.50
4	9748.00	45.8 AV	54.00	-8.20	1.06 V	5	2.30	40.50

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.9 PK			1.10 H	56	78.10	29.80
1	*2462.00	98.3 AV			1.10 H	56	68.50	29.80
2	2484.00	54.2 PK	74.00	-19.80	1.10 H	56	24.30	29.90
2	2484.00	43.5 AV	54.00	-10.50	1.10 H	56	13.60	29.90
3	4924.00	48.3 PK	74.00	-25.70	1.42 H	12	12.90	35.40
4	7386.00	57.5 PK	74.00	-16.50	1.66 H	230	16.80	40.60
4	7386.00	46.8 AV	54.00	-7.20	1.66 H	230	6.10	35.40
5	9848.00	54.1 PK	74.00	-19.90	1.20 H	12	10.60	43.60
5	9848.00	45.3 AV	54.00	-8.70	1.20 H	12	1.80	40.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	112.6 PK			1.36 V	53	82.80	29.80
1	*2462.00	103.3 AV			1.36 V	53	73.50	29.80
2	2484.00	59.9 PK	74.00	-14.10	1.03 V	236	30.00	29.90
2	2484.00	49.7 AV	54.00	-4.30	1.03 V	236	19.80	29.90
3	4924.00	49.2 PK	74.00	-24.80	1.25 V	45	13.80	35.40
4	7386.00	57.3 PK	74.00	-16.70	1.77 V	168	16.60	40.60
4	7386.00	45.8 AV	54.00	-8.20	1.77 V	168	5.10	35.40
5	9848.00	55.4 PK	74.00	-18.60	1.77 V	168	11.90	43.60
5	9848.00	45.8 AV	54.00	-8.20	1.77 V	168	2.30	40.60

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.2.14 TEST RESULTS (B.4)

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	40.6 QP	43.50	-2.90	1.44 H	54	15.10	25.50
2	220.00	37.5 QP	46.00	-8.50	1.80 H	73	12.00	25.50
3	264.00	30.5 QP	46.00	-15.50	1.10 H	45	5.00	25.50
4	440.00	30.1 QP	46.00	-15.90	1.36 H	268	4.60	25.50
5	528.00	30.3 QP	46.00	-15.70	2.20 H	14	4.80	25.50
6	572.00	30.3 QP	46.00	-15.70	1.33 H	36	4.80	25.50
7	704.00	38.5 QP	46.00	-7.50	1.60 H	12	13.00	25.50
8	748.00	39.3 QP	46.00	-6.70	1.00 H	360	13.80	25.50
9	836.00	32.3 QP	46.00	-13.70	2.14 H	4	6.80	25.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	176.00	39.6 QP	43.50	-3.90	1.09 V	22	14.10	25.50
2	440.00	31.8 QP	46.00	-14.20	1.02 V	65	6.30	25.50
3	528.00	36.6 QP	46.00	-9.40	1.45 V	67	11.10	25.50
4	572.00	32.3 QP	46.00	-13.70	1.74 V	52	6.80	25.50
5	748.00	41.9 QP	46.00	-4.10	1.25 V	21	16.40	25.50
6	792.00	30.6 QP	46.00	-15.40	1.58 V	64	5.10	25.50
7	924.00	28.6 QP	46.00	-17.40	1.44 V	160	3.10	25.50

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 1	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	51.5 PK	74.00	-22.50	1.64 H	54	21.90	29.60
1	2390.00	42.8 AV	54.00	-11.20	1.64 H	54	13.20	29.60
2	*2412.00	106.9 PK			1.64 H	54	77.30	29.60
2	*2412.00	97.4 AV			1.64 H	54	67.80	29.60
3	4824.00	45.3 PK	74.00	-28.70	1.03 H	56	10.30	35.00
4	7236.00	50.6 PK	74.00	-23.40	1.64 H	54	10.20	40.40
4	7236.00	39.8 AV	54.00	-14.20	1.64 H	54	-0.60	35.00
5	9648.00	56.1 PK	74.00	-17.90	1.21 H	5	12.60	43.50
5	9648.00	45.4 AV	54.00	-8.60	1.21 H	5	1.90	40.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	51.2 PK	74.00	-22.80	1.28 V	45	21.60	29.60
1	2390.00	41.4 AV	54.00	-12.60	1.28 V	45	11.80	29.60
2	*2412.00	103.4 PK			1.28 V	45	73.80	29.60
2	*2412.00	94.9 AV			1.28 V	45	65.30	29.60
3	4824.00	51.2 PK	74.00	-22.80	1.53 V	64	16.20	35.00
3	4824.00	39.9 AV	54.00	-14.10	1.53 V	64	4.90	35.00
4	7236.00	56.6 PK	74.00	-17.40	1.32 V	354	16.20	40.40
4	7236.00	45.4 AV	54.00	-8.60	1.32 V	354	5.00	40.40
5	9648.00	60.1 PK	74.00	-13.90	1.69 V	41	16.60	43.50
5	9648.00	49.1 AV	54.00	-4.90	1.69 V	41	5.60	43.50

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 6	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.5 PK			1.56 H	45	76.80	29.70
1	*2437.00	96.2 AV			1.56 H	45	66.50	29.70
2	4874.00	46.6 PK	74.00	-27.40	1.21 H	23	11.40	35.20
3	7311.00	50.9 PK	74.00	-23.10	1.36 H	315	10.40	40.50
3	7311.00	38.0 AV	54.00	-16.00	1.36 H	315	-2.50	35.20
4	9748.00	56.0 PK	74.00	-18.00	1.94 H	32	12.50	43.50
4	9748.00	45.0 AV	54.00	-9.00	1.94 H	32	1.50	40.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.6 PK			1.20 V	12	73.90	29.70
1	*2437.00	94.8 AV			1.20 V	12	65.10	29.70
2	4874.00	45.3 PK	74.00	-28.70	1.20 V	12	10.10	35.20
3	7311.00	48.7 PK	74.00	-25.30	1.78 V	211	8.20	40.50
4	9748.00	55.7 PK	74.00	-18.30	1.54 V	45	12.20	43.50
4	9748.00	45.8 AV	54.00	-8.20	1.54 V	45	2.30	35.20

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
CHANNEL	Channel 11	**FREQUENCY RANGE**	Above 1000 MHz
PRE AMPLIFIER	MAXIM	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 50%RH, 991hPa	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
TESTED BY	Bunny Yao		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.4 PK			1.30 H	87	76.60	29.80
1	*2462.00	96.7 AV			1.30 H	87	66.90	29.80
2	2484.00	54.2 PK	74.00	-19.80	1.30 H	87	24.30	29.90
2	2484.00	45.4 AV	54.00	-8.60	1.30 H	87	15.50	29.90
3	4924.00	46.6 PK	74.00	-27.40	1.57 H	54	11.20	35.40
4	7386.00	50.5 PK	74.00	-23.50	1.24 H	324	9.80	40.60
4	7386.00	38.0 AV	54.00	-16.00	1.24 H	324	-2.70	35.40
5	9848.00	56.4 PK	74.00	-17.60	1.11 H	54	12.90	43.60
5	9848.00	47.8 AV	54.00	-6.20	1.11 H	54	4.30	40.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.3 PK			1.03 V	12	75.50	29.80
1	*2462.00	95.1 AV			1.03 V	12	65.30	29.80
2	2484.00	51.7 PK	74.00	-22.30	1.03 V	12	21.80	29.90
2	2484.00	40.7 AV	54.00	-13.30	1.03 V	12	10.80	29.90
3	4924.00	43.9 PK	74.00	-30.10	1.25 V	360	8.50	35.40
4	7386.00	50.5 PK	74.00	-23.50	1.67 V	156	9.80	40.60
4	7386.00	42.1 AV	54.00	-11.90	1.67 V	156	1.40	35.40
5	9848.00	55.2 PK	74.00	-18.80	1.96 V	4	11.70	43.60
5	9848.00	43.8 AV	54.00	-10.20	1.96 V	4	0.30	40.60

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

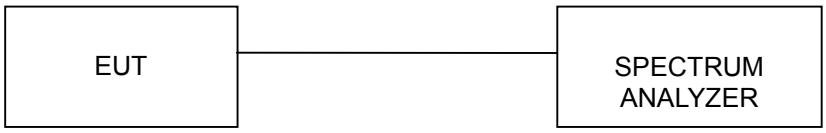
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured 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.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.3.6 EUT OPERATING CONDITIONS

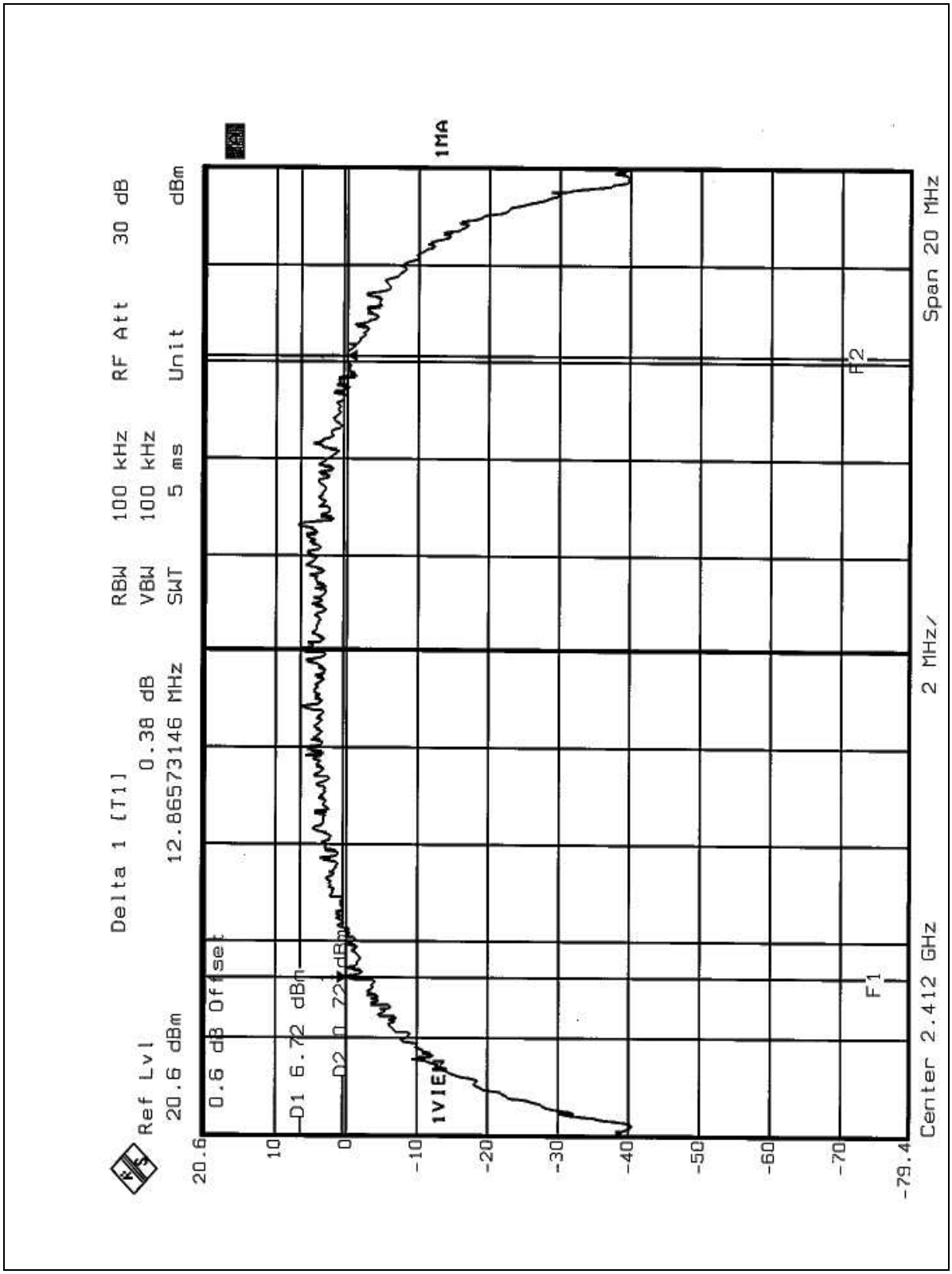
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

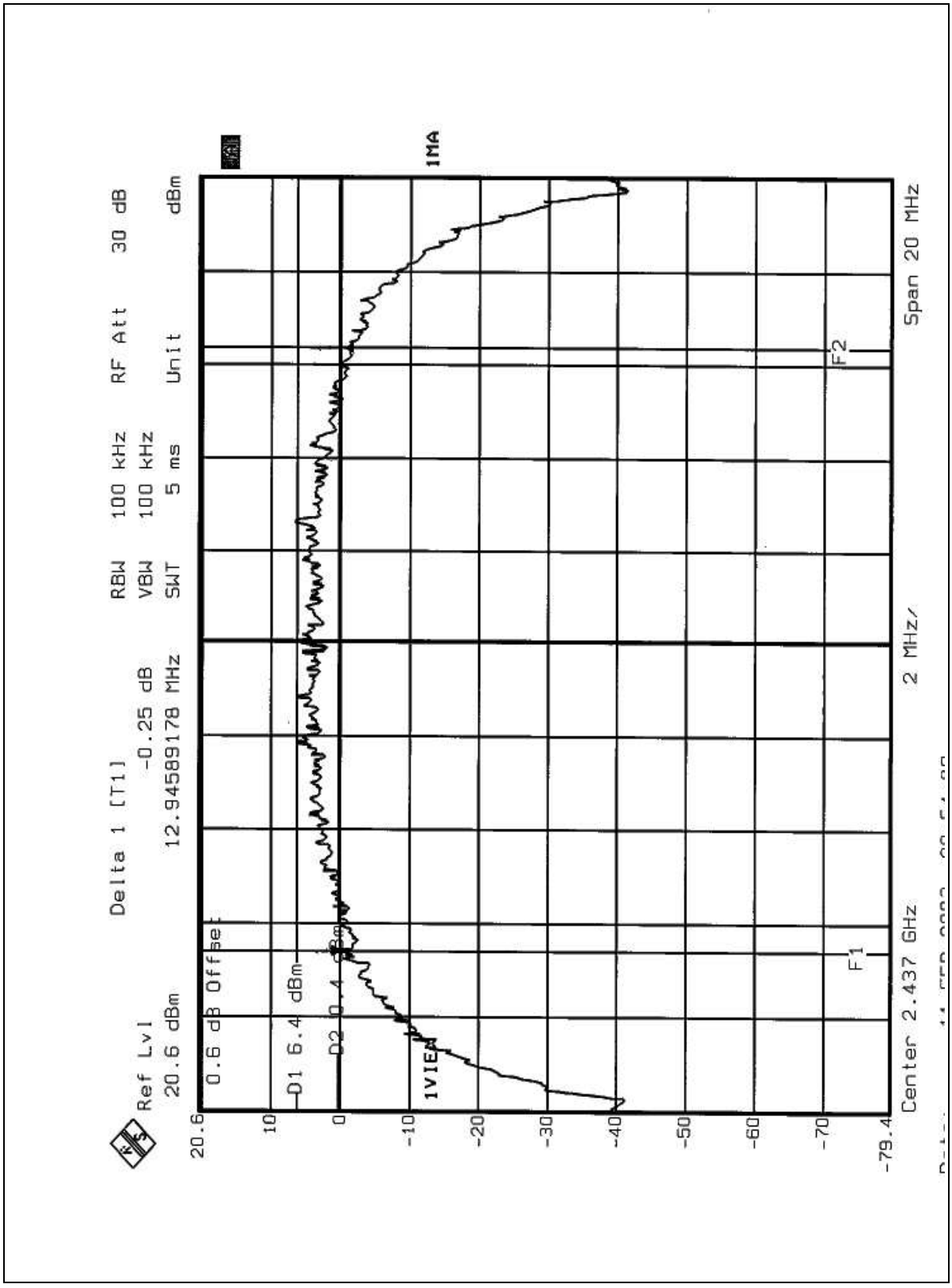
EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	21deg. C, 68%RH, 991hPa
PRE AMPLIFIER	GATAX	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.87	0.5	PASS
6	2437	12.95	0.5	PASS
11	2462	12.95	0.5	PASS

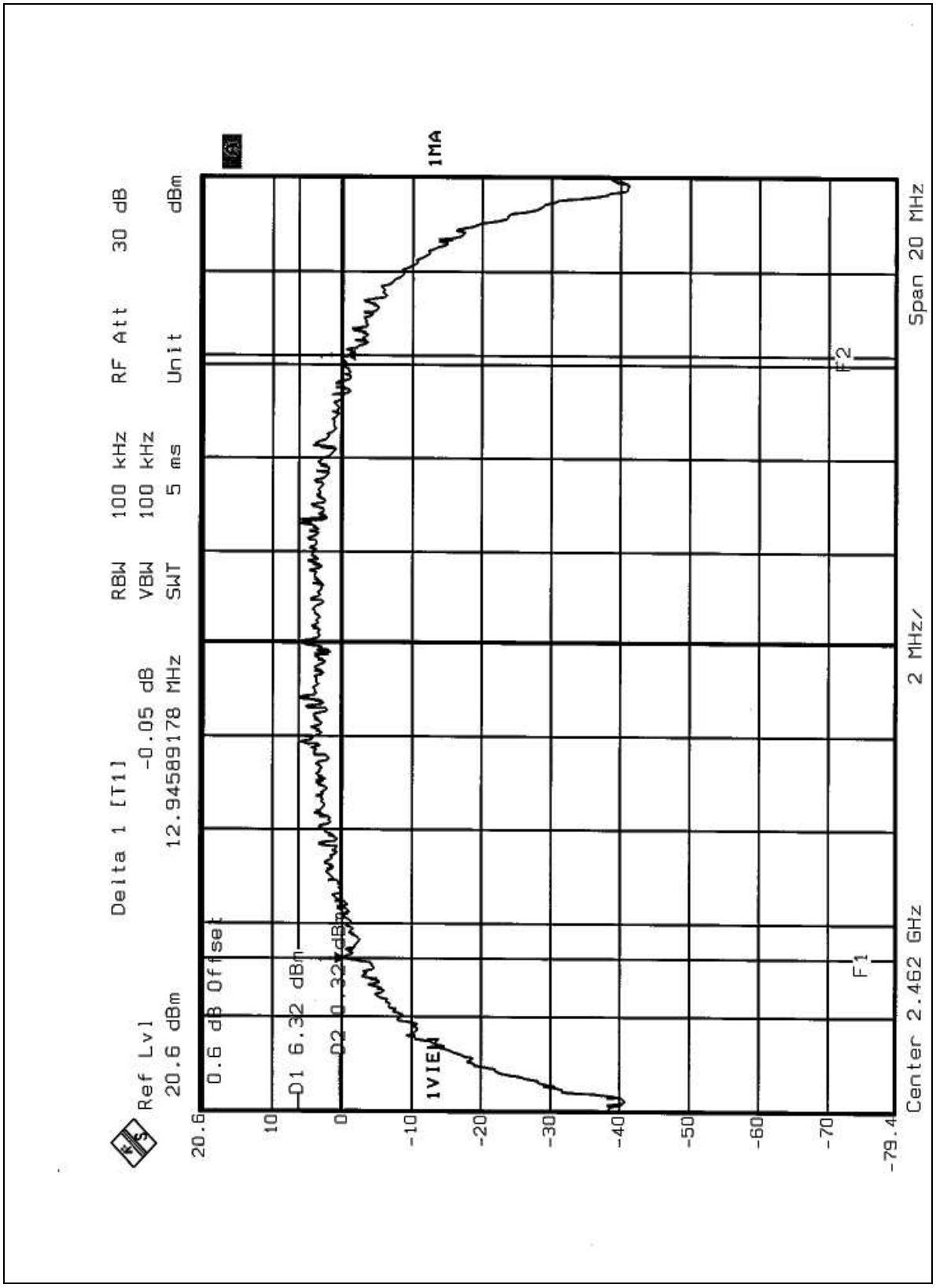
CH1


Delta 1 [T1]
0.38 dB
12.86573146 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.6 dBm
0.6 dB Offset
D1 6.72 dBm
1MA
1VIEW
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4

CH6


Delta 1 [T1]
-0.25 dB
12.94589178 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.6 dBm
0.6 dB Offset
D1 6.4 dBm
1MA
1VIEW
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4

CH11

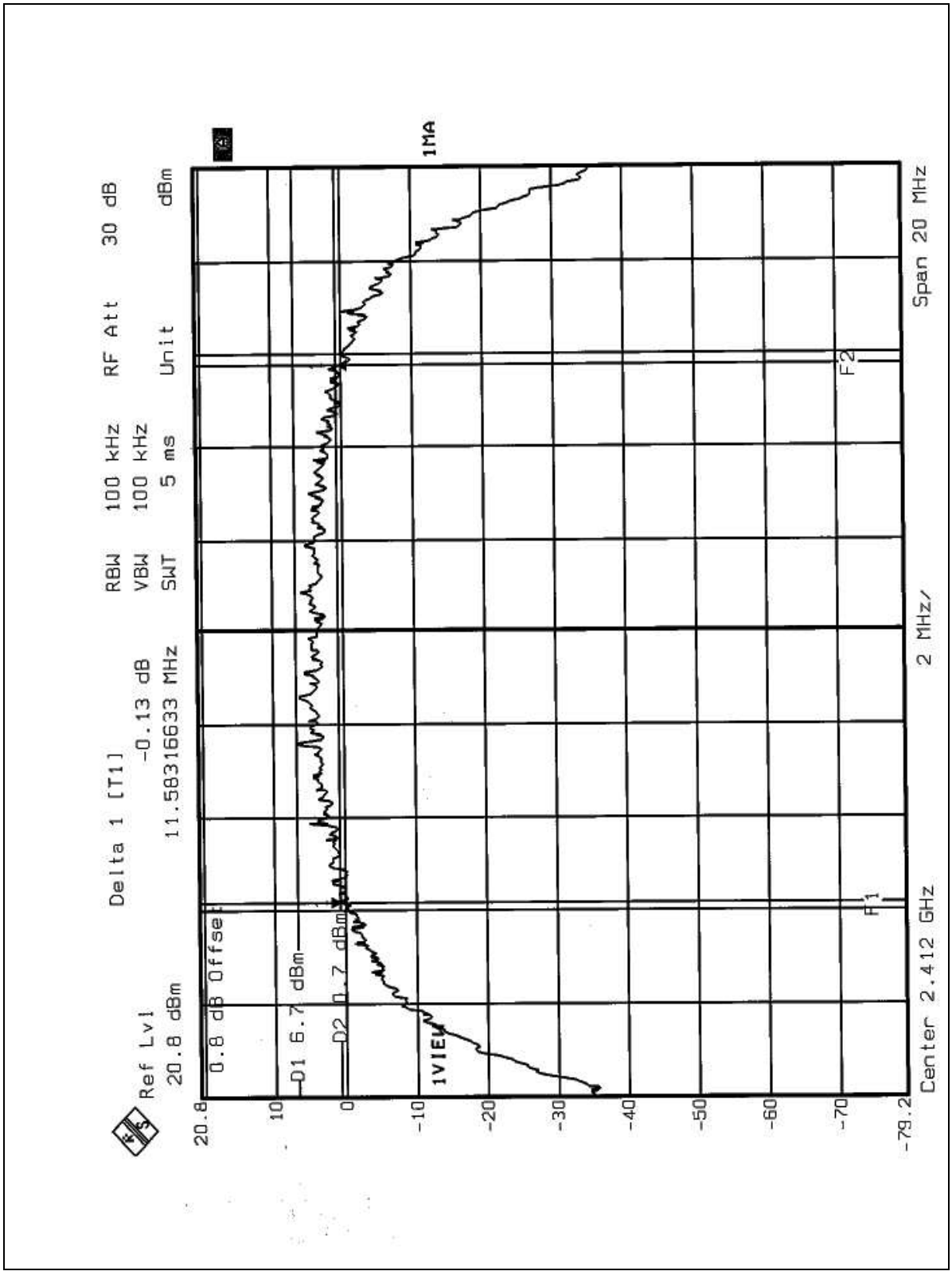

Ref Lvl
20.6 dBm
0.6 dB Offset
Delta 1 [T1]
-0.05 dB
12.94589178 MHz
D1 6.32 dBm
D2 0.32 dBm
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4

4.3.8 TEST RESULTS

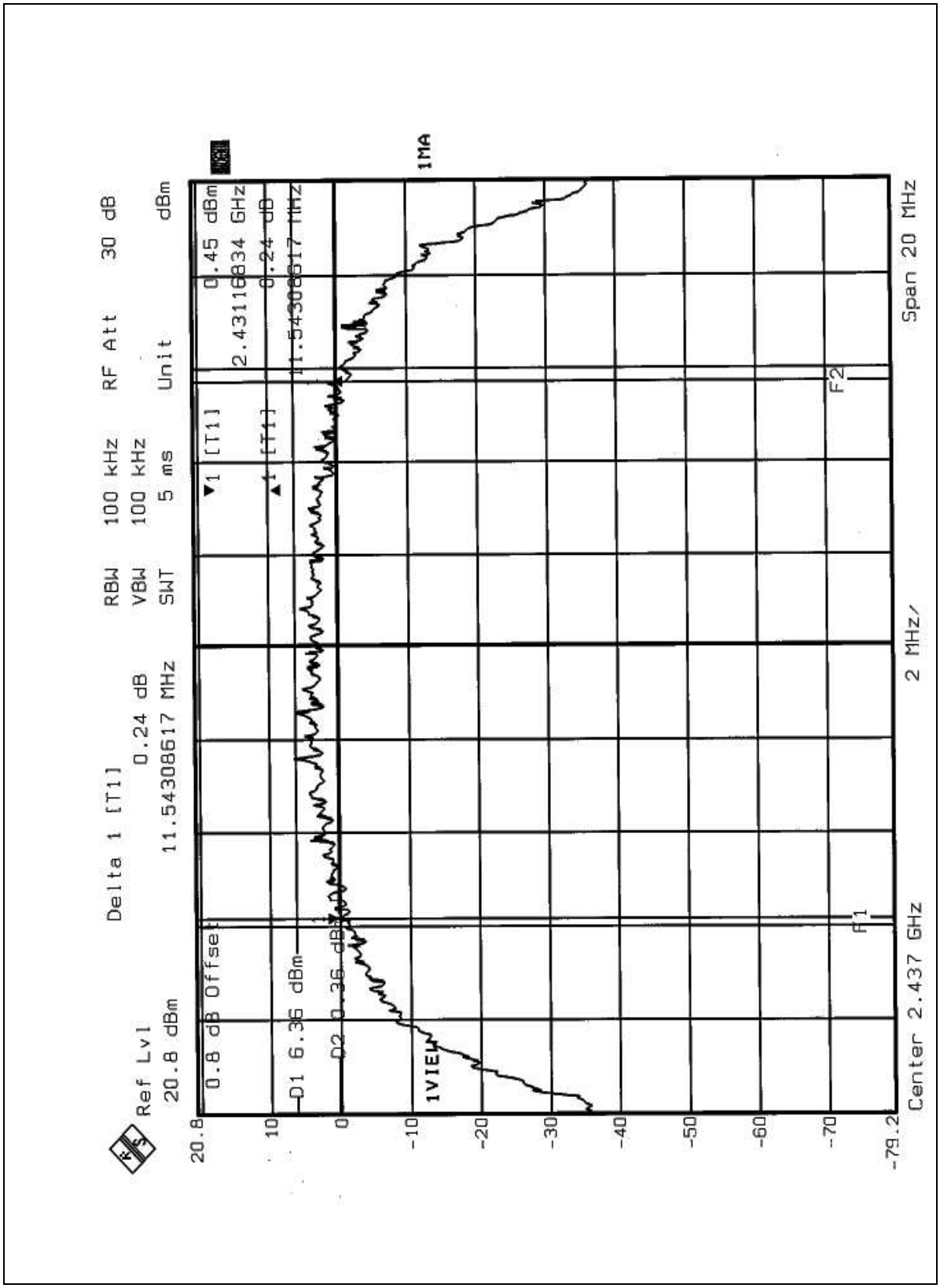
EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg. C, 67%RH, 991hPa
PRE AMPLIFIER	MAXIM	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.58	0.5	PASS
6	2437	11.54	0.5	PASS
11	2462	11.54	0.5	PASS

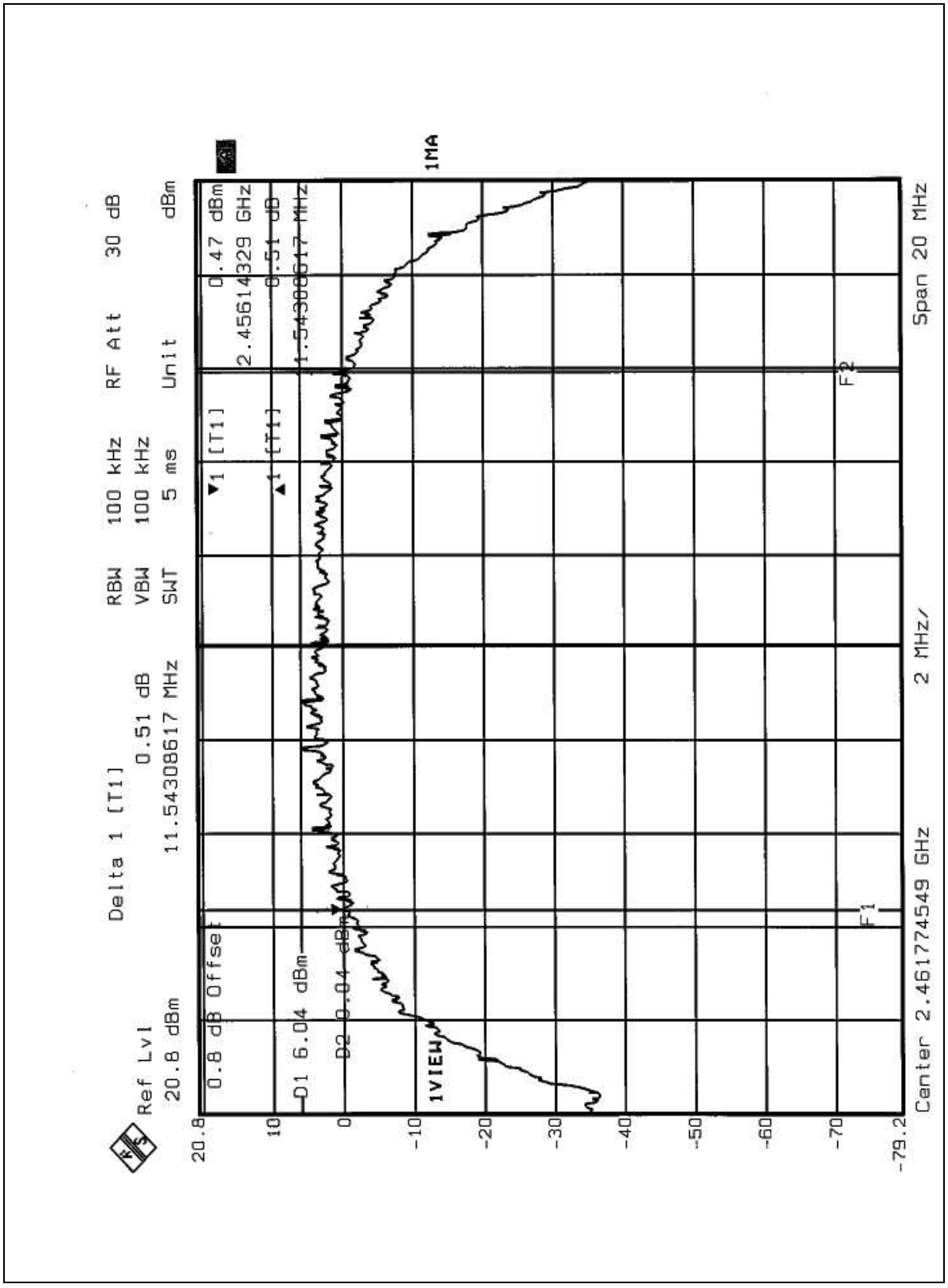
CH1


Ref Lvl
20.8 dBm
0.8 dB Offset
D1 6.7 dBm
D2 0.7 dBm
Delta 1 [T1]
-0.13 dB
11.58316633 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

CH6


Ref Lvl
20.8 dBm
0.8 dB Offset
Delta 1 [T1]
0.24 dB
11.54308617 MHz
D1 6.36 dBm
D2 0.36 dB
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1] 0.45 dBm
2.43116834 GHz
1 [T1] 0.24 dB
11.54308617 MHz
1MA
1VIEW
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

CH11


Ref Lvl
20.8 dBm
0.8 dB Offset
D1 6.04 dBm
D2 0.04 dBm
Delta 1 [T1]
0.51 dB
11.54308617 MHz
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1VIEW
1MA
▼1 [T1]
0.47 dBm
2.45614329 GHz
▲1 [T1]
0.51 dB
1.54308617 MHz
F1
F2
Center 2.46174549 GHz
2 MHz/
Span 20 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
POWER METER	E4416A	GB41291118	Jul. 30, 2003
PEAK POWER SENSOR	E9327A	US40440722	Jul. 30, 2003

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

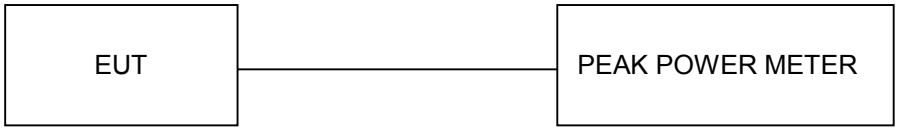
4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	21deg. C, 68%RH, 991hPa
PRE AMPLIFIER	GATAX	TESTED BY	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.88	30	PASS
6	2437	17.85	30	PASS
11	2462	17.78	30	PASS

4.4.8 TEST RESULTS

EUT	Wireless 22Mbps Mini PCI Card	MODEL	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg. C, 67%RH, 1991hPa
PRE AMPLIFIER	MAXIM	TESTED BY	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.73	30	PASS
6	2437	17.71	30	PASS
11	2462	17.67	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

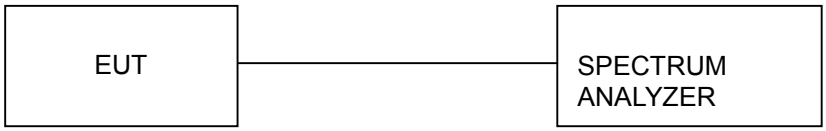
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded.
The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

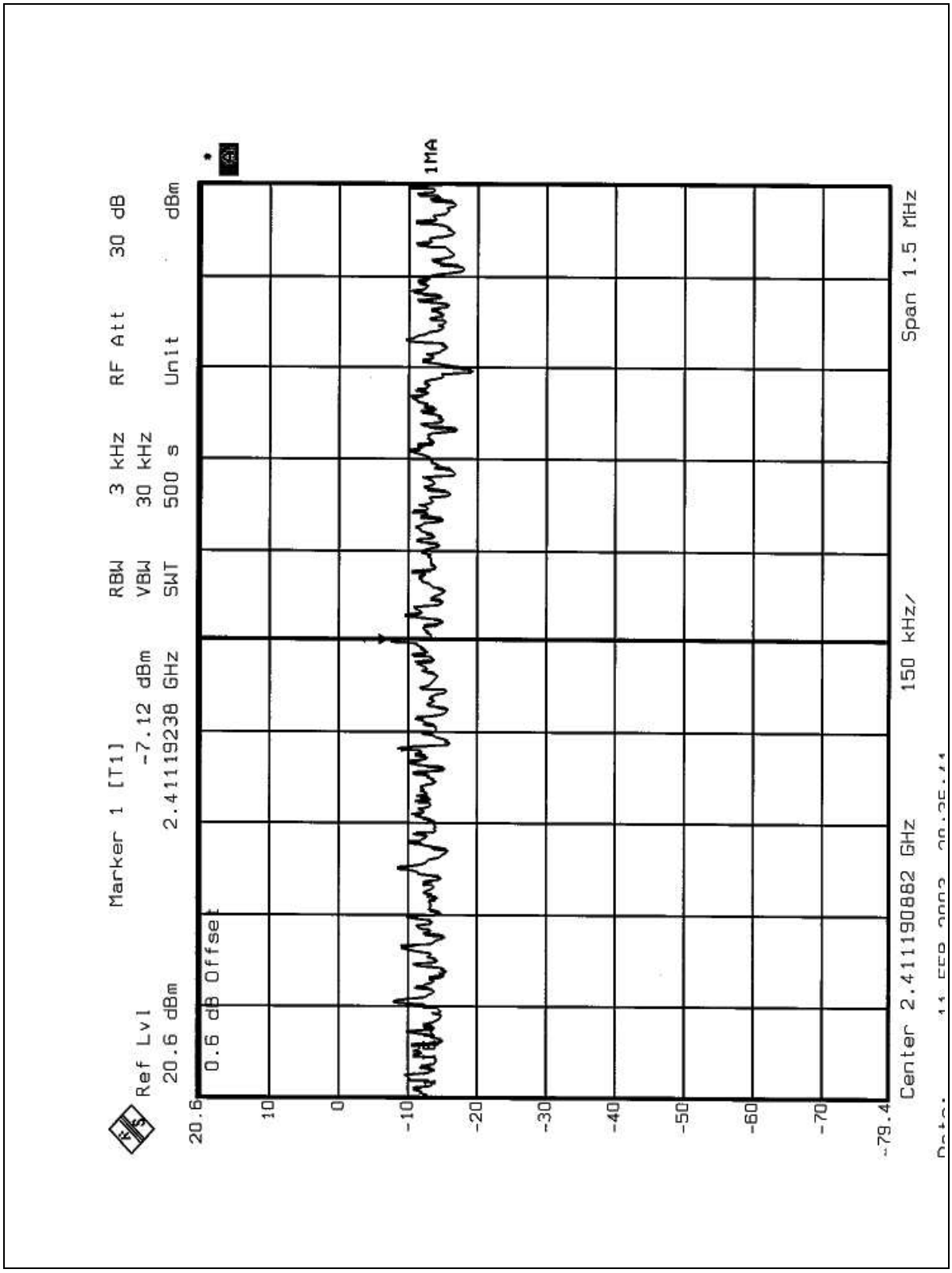
Same as 4.3.6.

4.5.7 TEST RESULTS

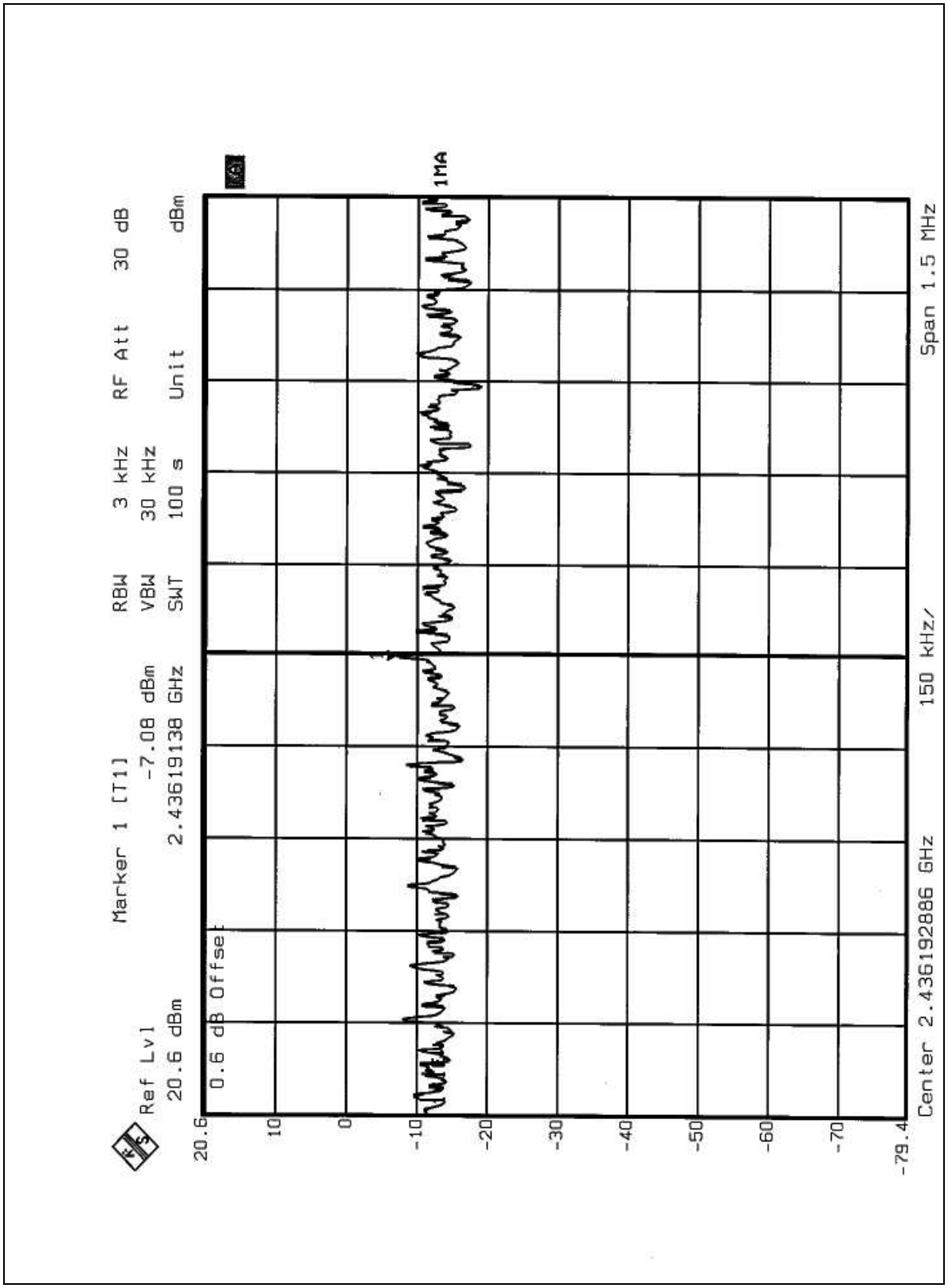
EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	21deg. C, 68%RH, 991hPa
PRE AMPLIFIER	GATAX	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.12	8	PASS
6	2437	-7.08	8	PASS
11	2462	-7.17	8	PASS

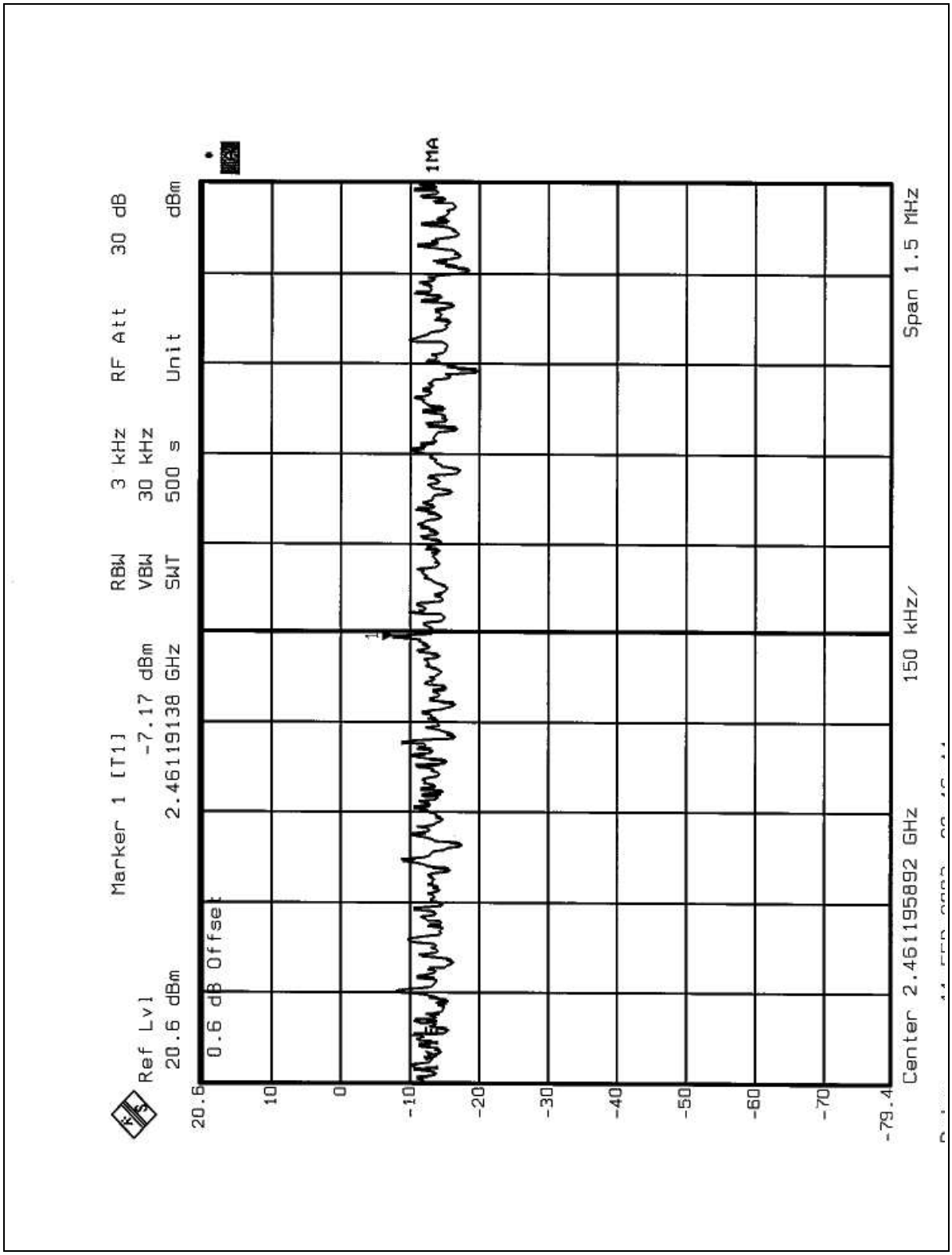
CH1


Ref Lvl
20.6 dBm
0.6 dB Offset
Marker 1 [T1]
-7.12 dBm
2.41119238 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
Center 2.411190882 GHz
150 kHz/
Span 1.5 MHz
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4

CH6


Ref Lvl
20.6 dBm
0.6 dB Offset
Marker 1 [T1]
-7.08 dBm
2.43619138 GHz
RBW 3 kHz
VBW 30 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
1MA
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4
Center 2.436192886 GHz
150 kHz/
Span 1.5 MHz

CH11

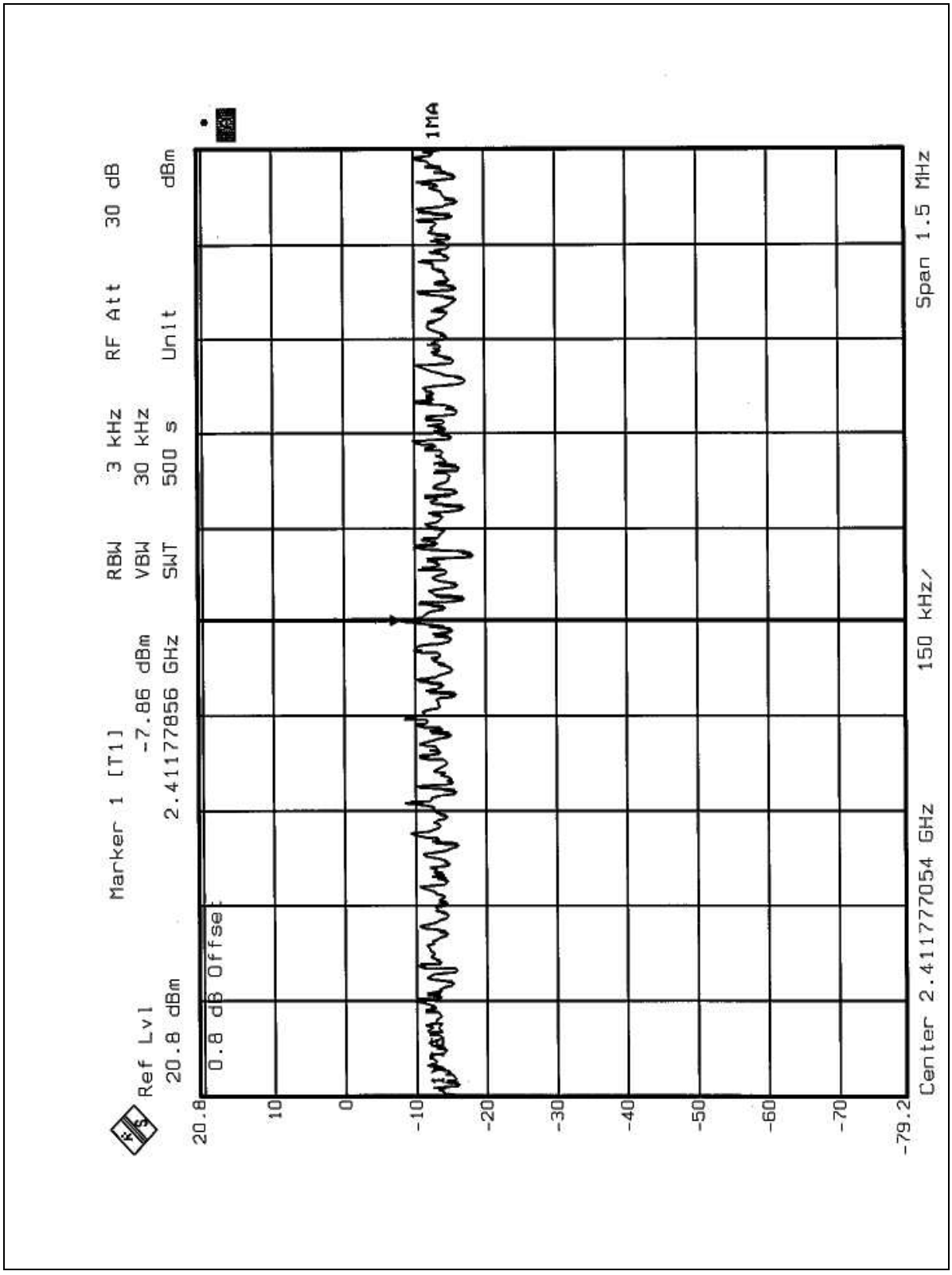

Ref Lvl
20.6 dBm
0.6 dB Offset
Marker 1 [T1]
-7.17 dBm
2.46119138 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
Center 2.461195892 GHz
150 kHz/
Span 1.5 MHz
20.6
10
0
-10
-20
-30
-40
-50
-60
-70
-79.4

4.5.8 TEST RESULTS

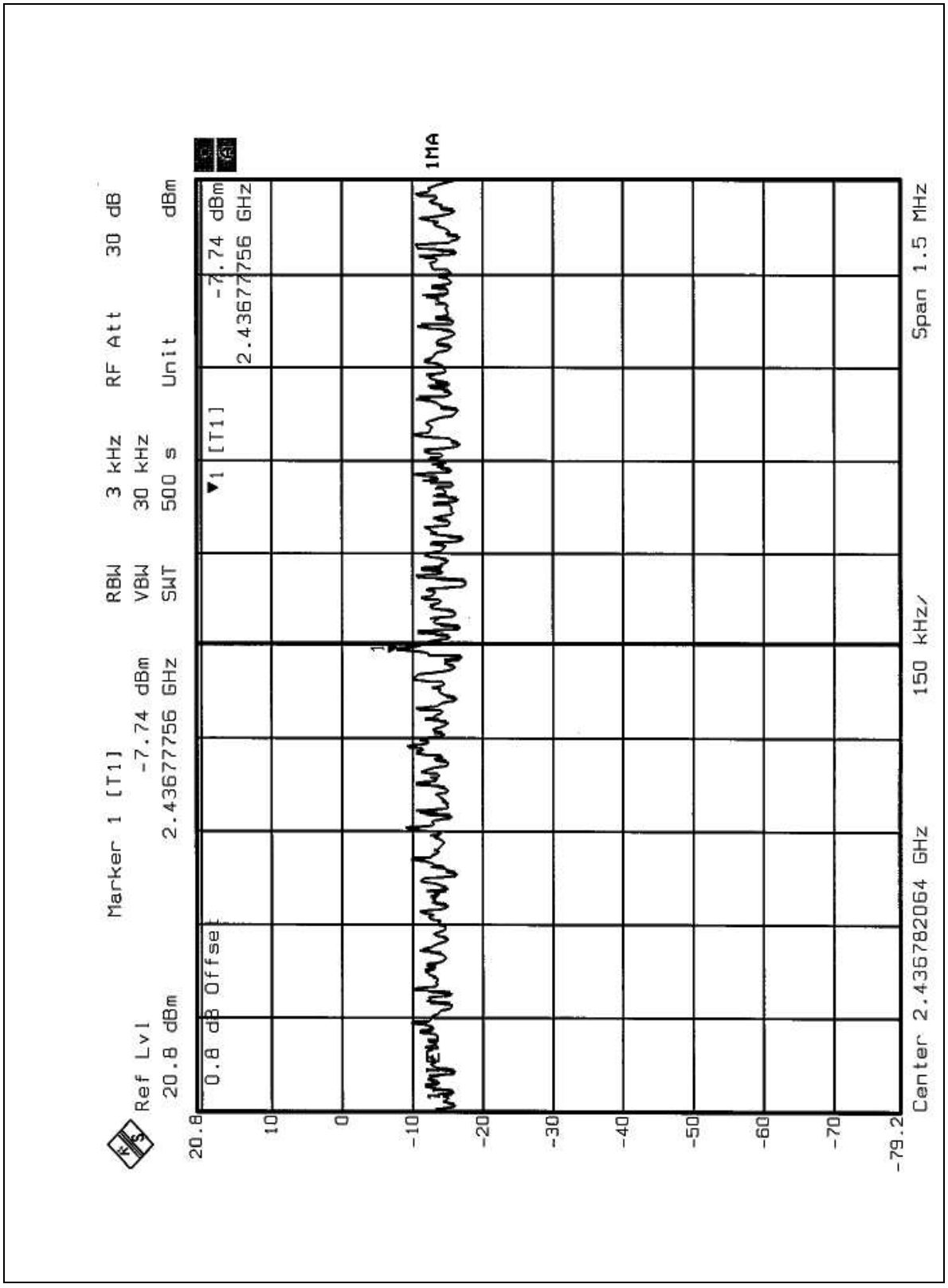
EUT	Wireless 22Mbps Mini PCI Card	**MODEL**	GL2422MP-MT
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg. C, 67%RH, 991hPa
PRE AMPLIFIER	MAXIM	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.86	8	PASS
6	2437	-7.74	8	PASS
11	2462	-8.04	8	PASS

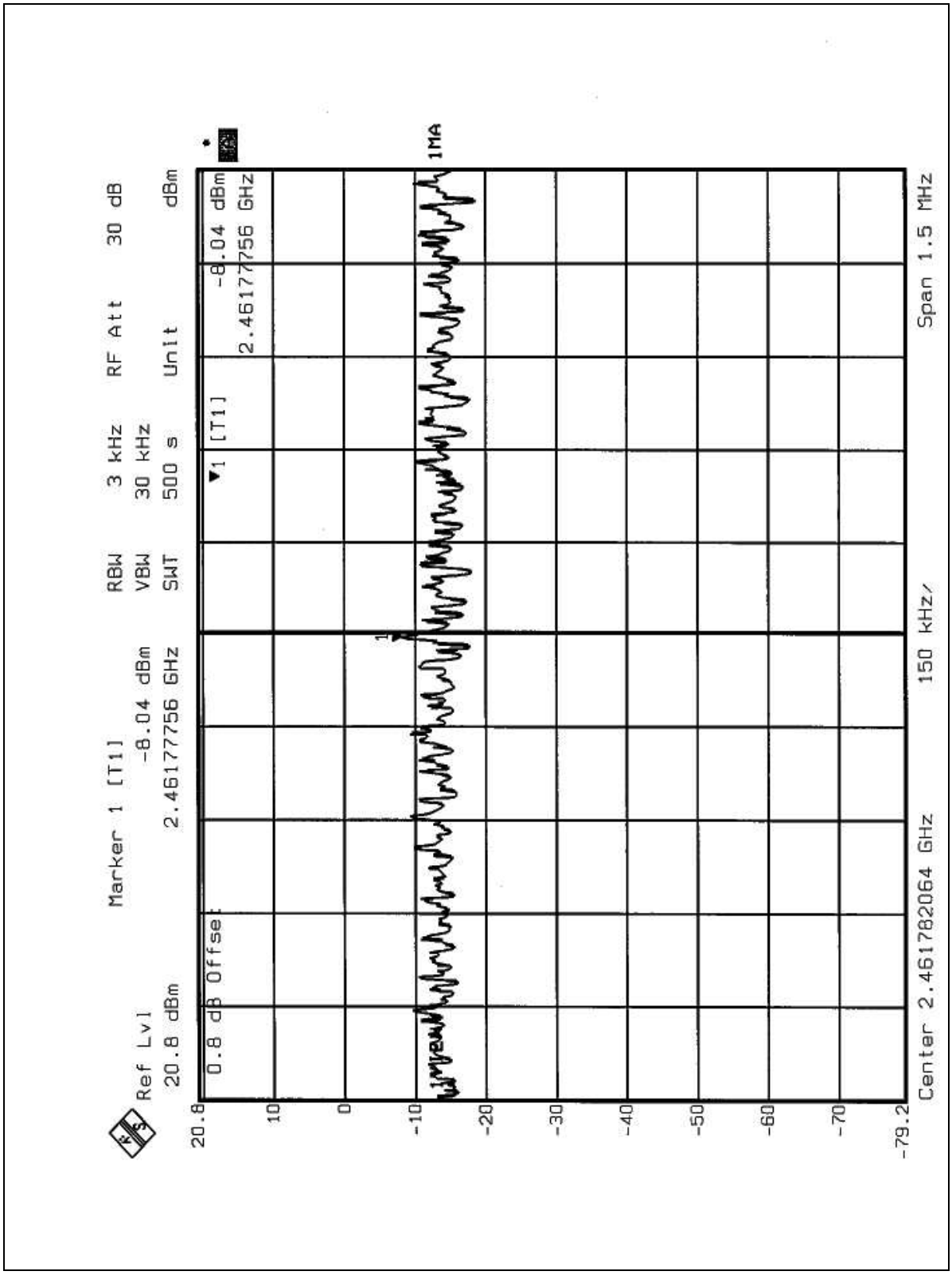
CH1


Ref Lvl
20.8 dBm
0.8 dB Offset
Marker 1 [T1]
-7.86 dBm
2.41177856 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
Center 2.411777054 GHz
150 kHz/
Span 1.5 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

CH6


Ref Lvl
20.8 dBm
0.8 dB Offset
Marker 1 [T1]
-7.74 dBm
2.4367756 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1 [T1]
-7.74 dBm
2.4367756 GHz
1MA
Center 2.436782064 GHz
150 kHz/
Span 1.5 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

CH11


Marker 1 [T1]
-8.04 dBm
2.46177756 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.8 dBm
0.8 dB Offset
1MA
1 [T1]
-8.04 dBm
2.46177756 GHz
Center 2.461782064 GHz
150 kHz/
Span 1.5 MHz
20.8
10
0
-10
-20
-30
-40
-50
-60
-70
-79.2

4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

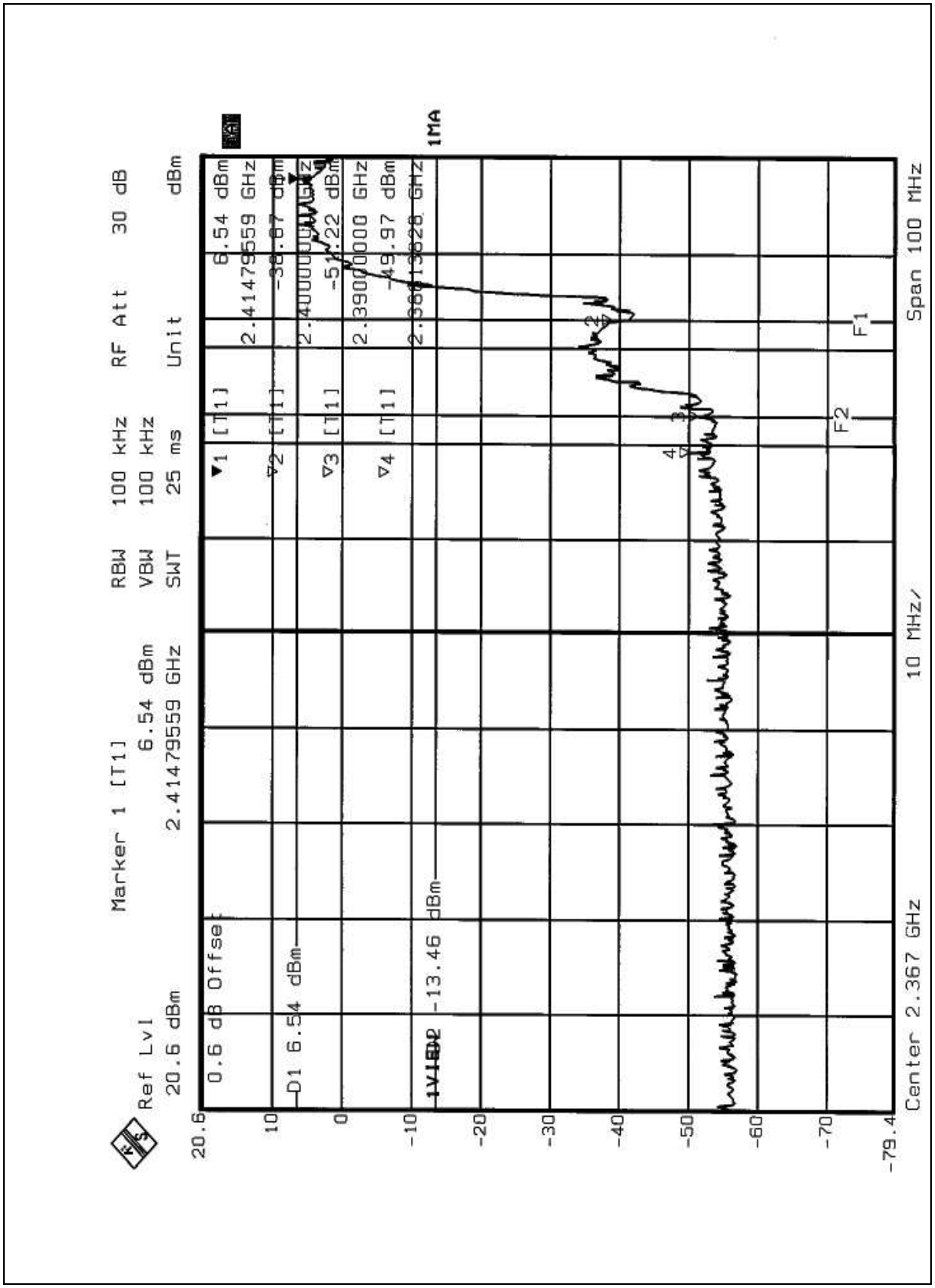
4.6.5 EUT OPERATING CONDITION

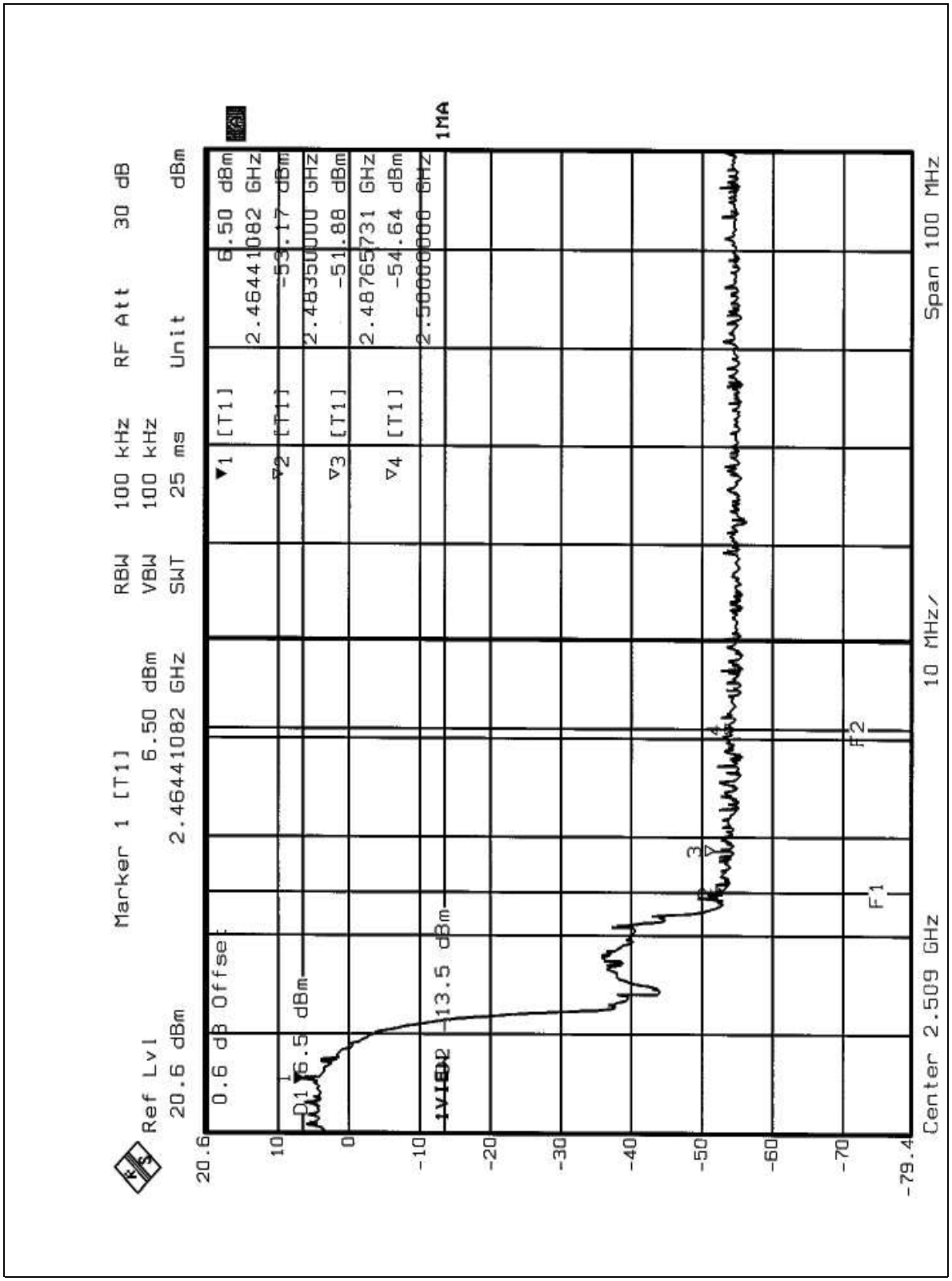
Same as Item 4.3.6.

4.6.6 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following 2 pages shows 56.51dB / 58.38dB delta between carrier maximum power and local maximum emission in restrict band (2.3861GHz / 2.4876GHz). The emission of carrier strength list in the test result of channel 1 which was tested with Pre Amplifier GATAX at the item 4.2.7 is 102.1dBuV/m, so the maximum field strength in restrict band is 102.1-56.51=45.59dBuV/m which is under 54dBuV/m limit.

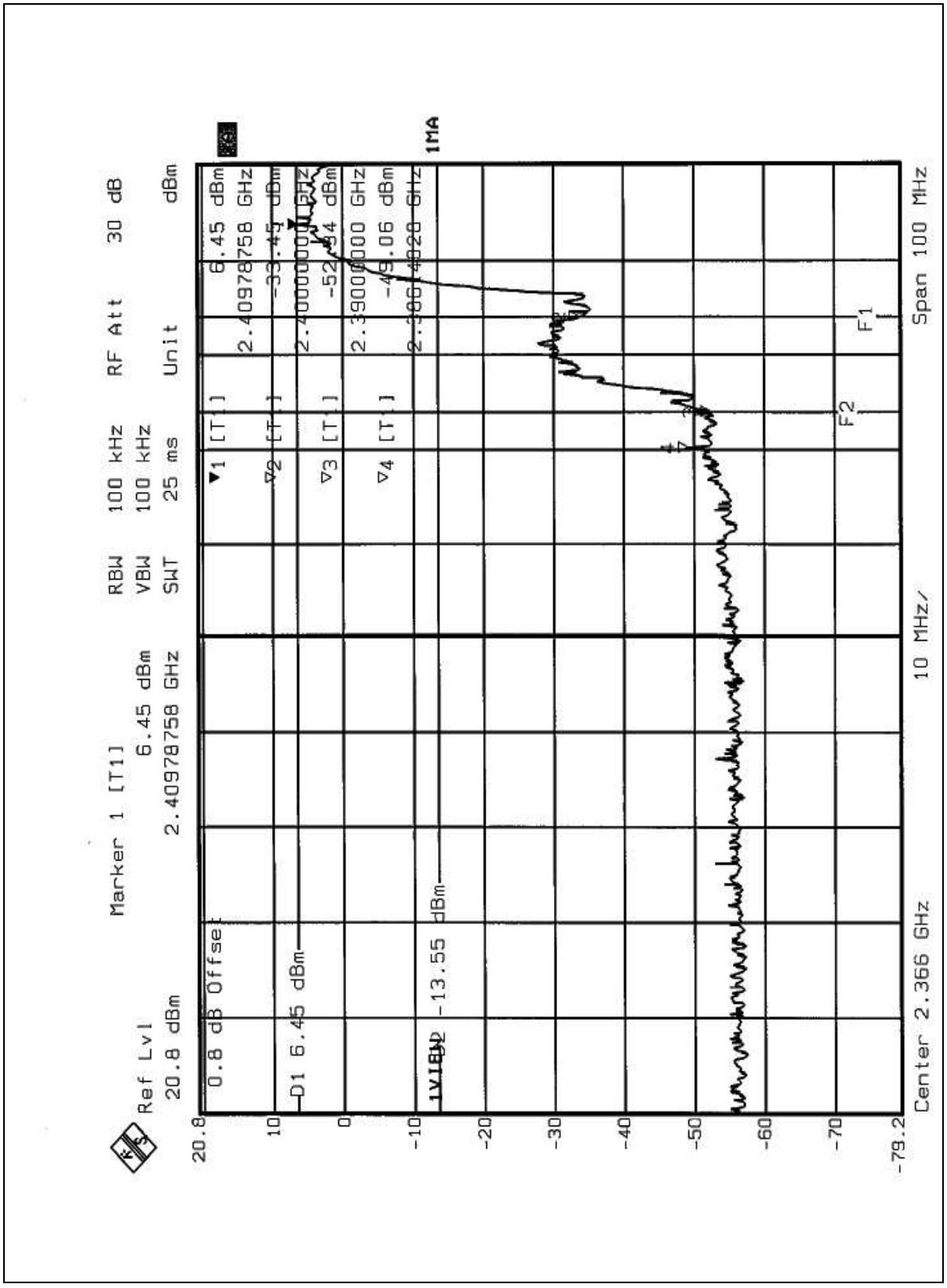

Marker 1 [T1]
6.54 dBm
2.41479559 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.6 dBm
0.6 dB Offset
D1 6.54 dBm
-13.46 dBm
1MA
Center 2.367 GHz
10 MHz/
Span 100 MHz
F1
F2

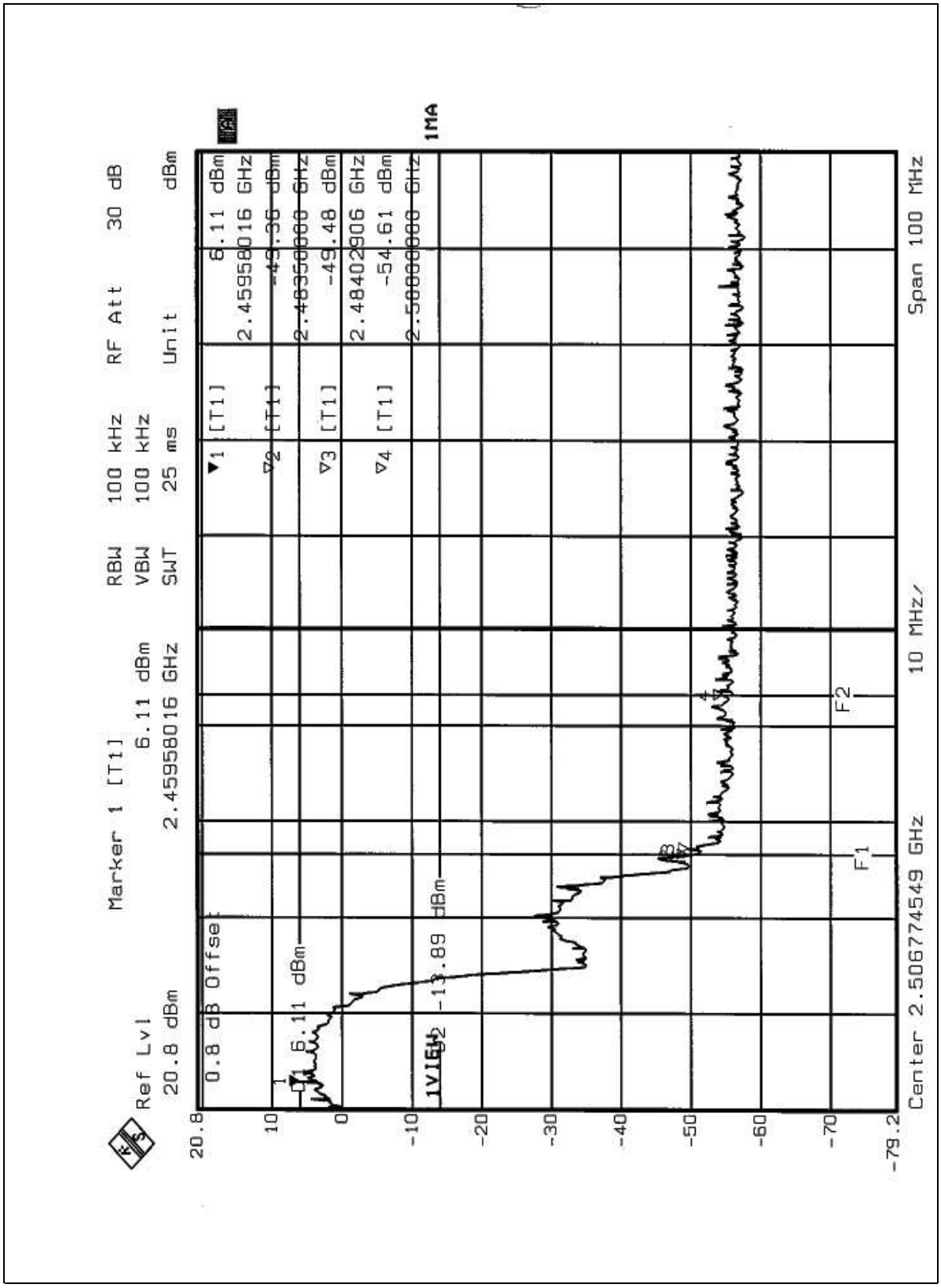

Marker 1 [T1]
6.50 dBm
2.46441082 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.6 dBm
0.6 dB Offset
-13.5 dBm
Center 2.509 GHz
10 MHz/
Span 100 MHz
1MA
F1
F2

4.6.7 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following 2 pages shows 55.51dB / 55.47dB delta between carrier maximum power and local maximum emission in restrict band (2.3861GHz / 2.4835GHz). The emission of carrier strength list in the test result of channel 11 which was tested with Pre Amplifier MAXIM at the item 4.2.10 is 104.1dBuV/m, so the maximum field strength in restrict band is 104.1-55.47=48.63dBuV/m which is under 54dBuV/m limit.


Marker 1 [T1]
6.45 dBm
2.40978758 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.8 dBm
0.8 dB Offset
D1 6.45 dBm
1VIEW -13.55 dBm
1MA
F1
F2
Center 2.366 GHz
10 MHz/
Span 100 MHz


Marker 1 [T1]
6.11 dBm
2.45958016 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.8 dBm
0.8 dB Offset
1MA
Center 2.506774549 GHz
10 MHz/
Span 100 MHz
F1
F2

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used in this product are Dipole antenna and Inverted F antenna. There is no antenna connector. And the maximum Gain of this antenna is only 2dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST


920128R02

RADIATED EMISSION TEST


920128R02

6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

Hsin Chu EMC Lab:
Tel: 886-35-935343
Fax: 886-35-935342

Lin Kou Safety Lab:
Tel: 886-2-26093195
Fax: 886-2-26093184

Lin Kou RF&Telecom Lab
Tel: 886-3-3270910
Fax: 886-3-3270892

Email: service@mail.adt.com.tw
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.