FCC TEST REPORT

REPORT NO.: RF930705L02
MODEL NO.: WLL3014
RECEIVED: Jul. 05, 2004
TESTED: Jul. 06 ~ Aug. 19, 2004

APPLICANT: Askey Computer Corp.

ADDRESS: 10F, No. 119, Chienkang Rd., Chung-Ho, Taipei Taiwan R.O.C

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 19, Hwa Ya 2nd Rd., Kueishan, Taoyuan, Taiwan, R.O.C.

ACCREDITED
NO. 2177-01

CNLA
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1 CERTIFICATION

PRODUCT :	Wireless LAN Mini PCI Card
MODEL NO. :	WLL3014
BRAND :	Askey
APPLICANT :	Askey Computer Corp.
TESTED :	Jul. 06, 2004 ~ Aug. 19, 2004
TEST ITEM :	Engineering Sample
STANDARDS :	FCC Part 15, Subpart C (Section 15.247), ANSI C63.4-2001

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Wendy Liao , **DATE:** Aug. 20, 2004

TECHNICAL ACCEPTANCE : Gary Chang , **DATE:** Aug. 20 2004
Responsible for RF

APPROVED BY : Cody Chang , **DATE:** Aug. 20, 2004
(Cody Chang / Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC 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 –17.10dB at 0.170MHz.
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 –0.89dB at 2483.50MHz.
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.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Frequency	Uncertainty
Conducted emissions	9k~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.65 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless LAN Mini PCI Card
MODEL NO.	WLL3014
POWER SUPPLY	3.3Vdc from host equipment
MODULATION	BPSK, QPSK, CCK,16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
CHANNEL SPACING	5MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	15.06dBm
ANTENNA TYPE	*refer to NOTE 3
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
2. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
3. The EUT have five combinations of antenna type. Please refer to following table:

Item	Antenna Type	Model No.	Brand	Gain (dBi)	Remark
1	Dipole	3907-001220	Antenniques	2	NA
	Printed Dipole	3907-001140	Antenniques	2	
2	Dipole	3907-000660	Antenniques	3	NA
	Printed Dipole	MN002-241-02	Antenniques	2	
3	Dipole	3907-000670	Antenniques	3	NA
	Printed Dipole	3907-000270	Antenniques	3	
4	Dipole	E421C-5000F1	FRE	3.5	Two antenna cable (with Long 28.5 cm and short cable 21.5 cm)
5	Dipole	C407-510222-A	WHA YU	1	NA
	Printed Dipole	C407-510223-A	WHA YU	2	

**item 2, 3, 4 were the worst case and chosen for final test.

4. The above EUT information was declared by manufacturer and 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 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
3. From our experience and technical viewpoint, we have chosen data rates 11Mbps for CCK technique and 6Mbps for OFDM technique, as the worst cases for the test among other data rates.
4. There are two test results presented in the following sections: The test result A is for CCK technique and the test result B is for OFDM technique.
5. For Rediated emission, three test modes presented in following sections, the test mode 1 is for antenna item 2 (refer to NOTE 3 of section 3.1) ,test mode 2 is for antenna item 3 and the test mode 3 is for antenna item 4.
6. For Conducted emission measurement, item 4 was the worst case and therefore only it test data was recorded in this report.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C. (15.247)
ANSI C63.4-2001

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

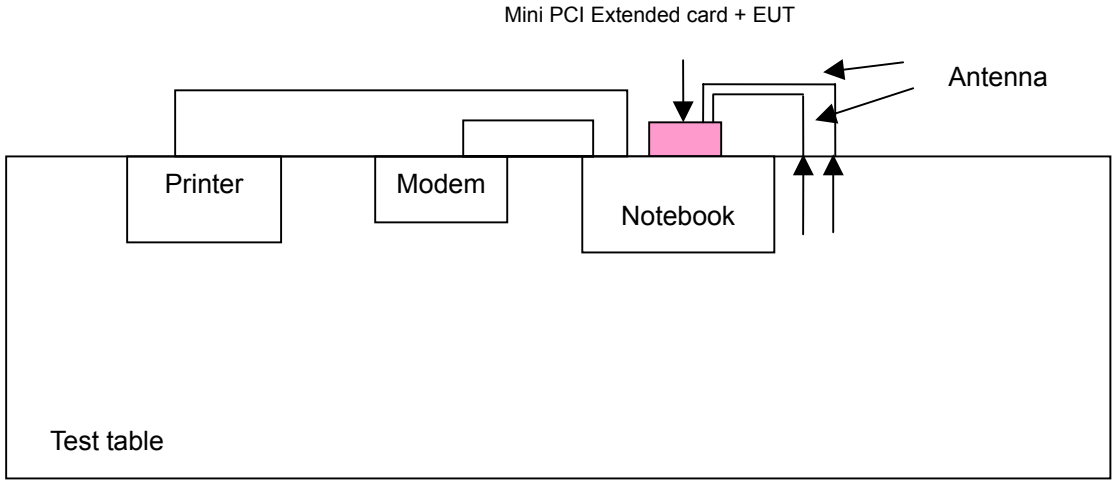
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	Latitude C640	NA	IMRMPCIDE3
2	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m shielded cable
3	1.2m shielded cable

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



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
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Dec. 12, 2004
RF signal cable Woken	5D-FB	Cable-HYC01-01	Mar. 02, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Mar. 03, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Mar. 02, 2005
Software ADT	ADT_Cond_V3	NA	NA

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. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.

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.

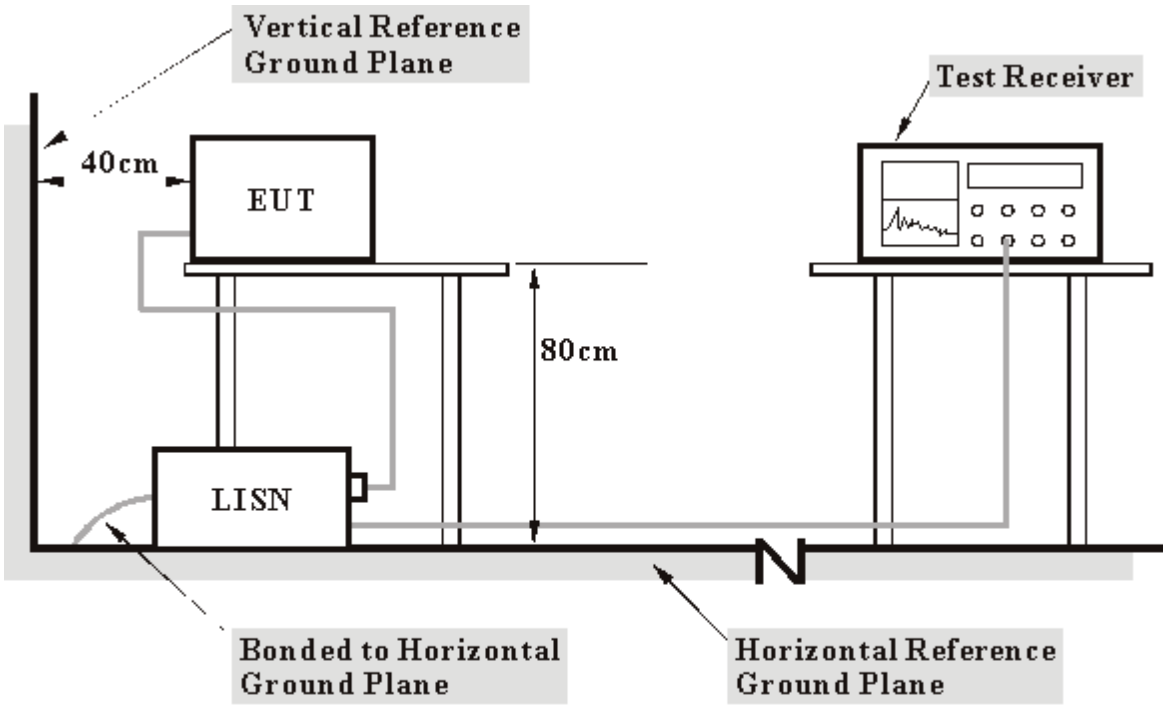
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under Limit - 20dB was not recorded.

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

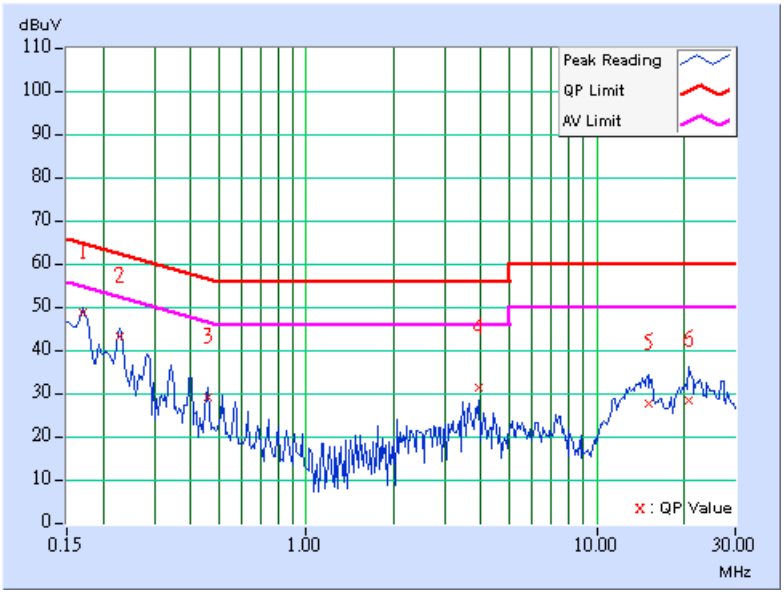
a. Connected the EUT and extended card into a notebook system placed on a testing table.
b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
c. The computer system sent "H" messages to its 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.
f. Item c ~ e were repeated.

4.1.7 TEST RESULTS

EUT	Wireless LAN Mini PCI Card	MODEL	WLL3014
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	TESTED BY	Leo Hung

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**	**0.11**	**47.77**	**-**	**47.88**	**-**	**64.98**	**54.98**	**-17.10**	**-**
2	0.228	0.12	42.19	-	42.31	-	62.52	52.52	-20.21	-
3	0.459	0.13	28.19	-	28.32	-	56.72	46.72	-28.40	-
4	3.938	0.21	30.49	-	30.70	-	56.00	46.00	-25.30	-
5	15.020	0.78	26.58	-	27.36	-	60.00	50.00	-32.64	-
6	20.773	1.04	27.64	-	28.68	-	60.00	50.00	-31.32	-

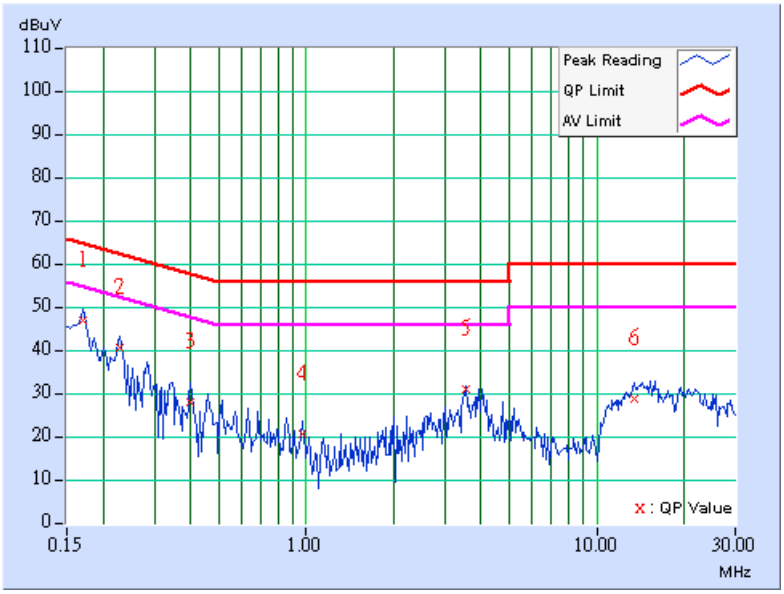
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	**TESTED BY**	Leo Hung

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	46.41	-	46.51	-	64.98	54.98	-18.47	-
2	0.228	0.11	40.20	-	40.31	-	62.52	52.52	-22.21	-
3	0.400	0.12	27.47	-	27.59	-	57.85	47.85	-30.27	-
4	0.970	0.15	20.04	-	20.19	-	56.00	46.00	-35.81	-
5	3.535	0.19	30.53	-	30.72	-	56.00	46.00	-25.28	-
6	13.531	0.53	28.21	-	28.74	-	60.00	50.00	-31.26	-

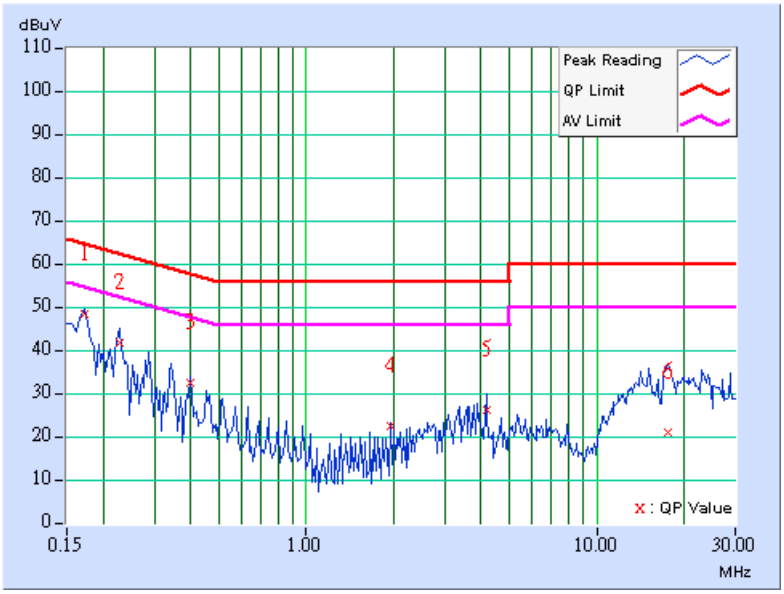
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	**TESTED BY**	Leo Hung

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	0.173	0.11	47.53	-	47.64	-	64.79	54.79	-17.15	-
2	0.228	0.12	41.06	-	41.18	-	62.52	52.52	-21.34	-
3	0.400	0.13	31.59	-	31.72	-	57.85	47.85	-26.14	-
4	1.941	0.16	21.75	-	21.91	-	56.00	46.00	-34.09	-
5	4.168	0.21	25.33	-	25.54	-	56.00	46.00	-30.46	-
6	17.594	0.90	20.04	-	20.94	-	60.00	50.00	-39.06	-

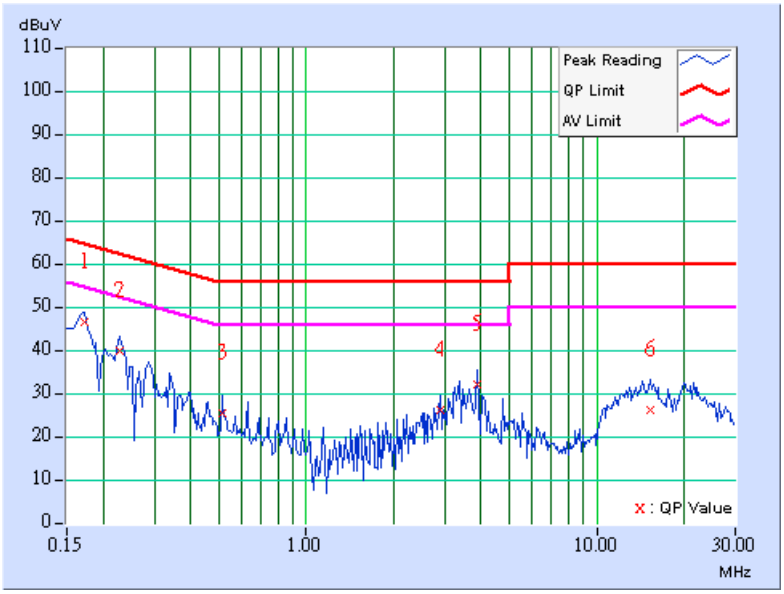
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	**TESTED BY**	Leo Hung

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	0.173	0.10	46.18	-	46.28	-	64.79	54.79	-18.51	-
2	0.228	0.11	39.42	-	39.53	-	62.52	52.52	-22.99	-
3	0.513	0.12	25.07	-	25.19	-	56.00	46.00	-30.81	-
4	2.910	0.18	25.83	-	26.01	-	56.00	46.00	-29.99	-
5	3.883	0.20	31.63	-	31.83	-	56.00	46.00	-24.17	-
6	15.285	0.64	25.69	-	26.33	-	60.00	50.00	-33.67	-

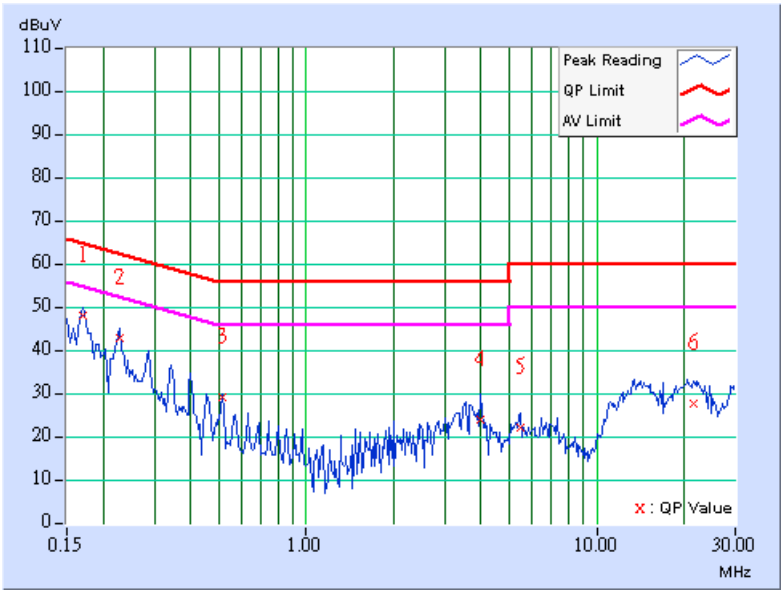
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	**TESTED BY**	Leo Hung

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	0.11	46.96	-	47.07	-	64.98	54.98	-17.91	-
2	0.228	0.12	41.73	-	41.85	-	62.52	52.52	-20.67	-
3	0.513	0.13	28.03	-	28.16	-	56.00	46.00	-27.84	-
4	4.000	0.21	22.92	-	23.13	-	56.00	46.00	-32.87	-
5	5.480	0.25	21.07	-	21.32	-	60.00	50.00	-38.68	-
6	21.566	1.06	26.89	-	27.95	-	60.00	50.00	-32.05	-

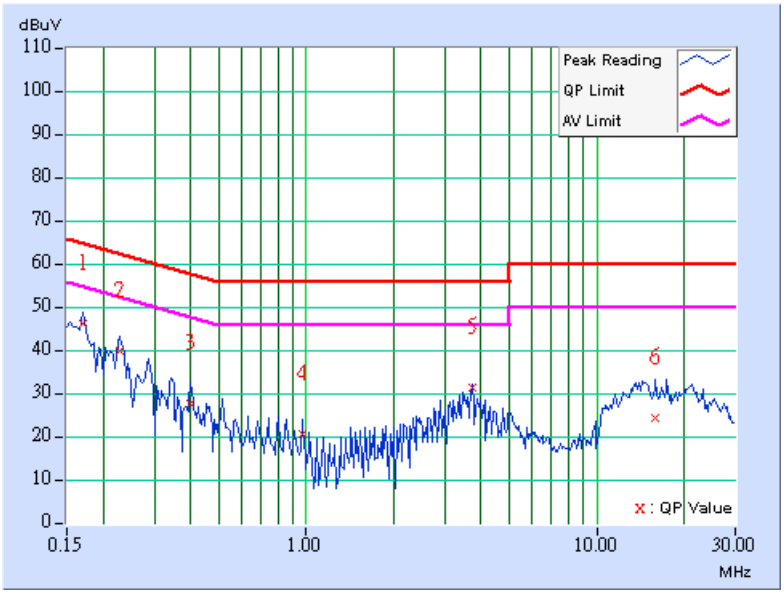
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**6dB BANDWIDTH**	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa	**TESTED BY**	Leo Hung

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	45.78	-	45.88	-	64.98	54.98	-19.10	-
2	0.228	0.11	39.29	-	39.40	-	62.52	52.52	-23.12	-
3	0.400	0.12	27.07	-	27.19	-	57.85	47.85	-30.67	-
4	0.970	0.15	20.06	-	20.21	-	56.00	46.00	-35.79	-
5	3.711	0.19	30.91	-	31.10	-	56.00	46.00	-24.90	-
6	15.941	0.65	23.97	-	24.62	-	60.00	50.00	-35.38	-

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
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Feb. 09, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170242	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10631	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01960	Jan. 22, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219272/4	Mar. 04, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219275/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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. The test was performed in HwaYa Chamber 3.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The IC Site Registration No. is IC4924-4.

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 3 meter semi-anechoic chamber. 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.

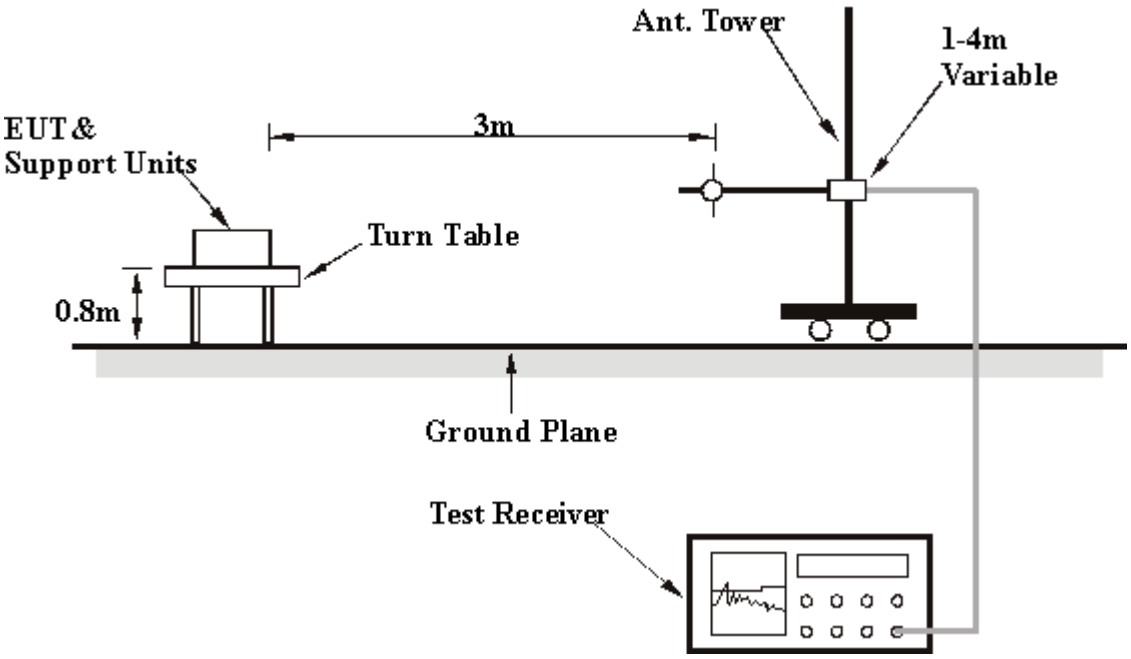
NOTE:

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 10 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)

EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode1
TESTED BY	Martin Lee		

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	133.34	24.59 QP	43.50	-18.91	1.60 H	164	12.80	11.79
2	166.40	35.42 QP	43.50	-8.08	1.27 H	68	25.31	10.11
3	206.40	34.14 QP	43.50	-9.36	1.40 H	128	23.57	10.57
4	219.60	35.02 QP	46.00	-10.98	1.15 H	190	23.66	11.36
5	266.23	37.65 QP	46.00	-8.35	1.20 H	261	23.22	14.43
6	300.00	37.90 QP	46.00	-8.10	1.83 H	252	22.56	15.34
7	399.00	30.41 QP	46.00	-15.59	1.56 H	357	12.39	18.02
8	499.50	38.51 QP	46.00	-7.49	1.00 H	179	18.72	19.79
9	534.50	38.90 QP	46.00	-7.10	1.39 H	116	18.46	20.44
10	658.80	39.24 QP	46.00	-6.76	1.70 H	209	16.41	22.83
11	798.75	41.43 QP	46.00	-4.57	1.38 H	356	16.29	25.14

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	63.00	29.14 QP	40.00	-10.86	1.00 V	143	22.56	6.58
2	99.50	31.04 QP	43.50	-12.46	1.47 V	349	20.68	10.36
3	133.63	26.61 QP	43.50	-16.89	1.71 V	161	14.83	11.78
4	166.60	33.57 QP	43.50	-9.93	1.28 V	351	23.47	10.10
5	206.70	32.39 QP	43.50	-11.11	1.77 V	176	21.81	10.58
6	259.05	35.81 QP	46.00	-10.19	1.81 V	51	21.58	14.23
7	401.50	31.81 QP	46.00	-14.19	1.50 V	263	13.74	18.07
8	499.50	37.09 QP	46.00	-8.91	1.43 V	79	17.30	19.79
9	658.80	39.90 QP	46.00	-6.10	1.00 V	242	17.07	22.83
10	800.50	39.96 QP	46.00	-6.04	1.24 V	50	14.83	25.13
11	895.00	34.63 QP	46.00	-11.37	1.64 V	357	10.33	24.30

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	MODEL	WLL3014
MODE	Channel 1	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	TEST MODE	Mode 1
TESTED BY	Allen 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	1608.00	42.28 PK	74.00	-31.72	1.00 V	97	12.15	30.13
1	1608.00	33.13 AV	54.00	-20.87	1.00 V	97	3.00	30.13
2	2390.00	53.23 PK	74.00	-20.77	1.72 V	253	19.40	33.83
2	2390.00	46.31 AV	54.00	-7.69	1.72 V	253	12.48	33.83
3	*2412.00	106.86 PK			1.72 V	253	72.93	33.93
3	*2412.00	99.94 AV			1.72 V	253	66.01	33.93
4	3216.00	48.84 PK	74.00	-25.16	1.40 V	264	12.50	36.33
4	3216.00	38.27 AV	54.00	-15.73	1.40 V	264	1.93	36.33
5	4824.00	57.13 PK	74.00	-16.87	1.10 V	113	16.47	40.66
5	4824.00	52.48 AV	54.00	-1.52	1.10 V	113	11.82	40.66

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	1608.00	42.16 PK	74.00	-31.84	1.00 H	65	12.03	30.13
1	1608.00	31.67 AV	54.00	-22.33	1.00 H	65	1.54	30.13
2	2390.00	57.98 PK	74.00	-16.02	1.10 H	336	24.15	33.83
2	2390.00	51.11 AV	54.00	-2.89	1.10 H	336	17.28	33.83
3	*2412.00	111.61 PK			1.10 H	336	77.68	33.93
3	*2412.00	104.74 AV			1.10 H	336	70.81	33.93
4	3216.00	50.75 PK	74.00	-23.25	1.00 H	311	14.41	36.33
4	3216.00	40.66 AV	54.00	-13.34	1.00 H	311	4.32	36.33
5	4824.00	56.23 PK	74.00	-17.77	1.00 H	2	15.57	40.66
5	4824.00	51.40 AV	54.00	-2.60	1.00 H	2	10.74	40.66

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	**TEST MODE**	Mode 1
TESTED BY	Allen 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	1624.00	41.29 PK	74.00	-32.71	1.45 V	132	11.13	30.16
1	1624.00	31.80 AV	54.00	-22.20	1.45 V	132	1.64	30.16
2	*2437.00	106.18 PK			1.69 V	252	72.13	34.05
2	*2437.00	99.65 AV			1.69 V	252	65.60	34.05
3	3248.00	49.53 PK	74.00	-24.47	1.41 V	239	13.17	36.36
3	3248.00	40.35 AV	54.00	-13.65	1.41 V	239	3.99	36.36
4	4874.00	55.77 PK	74.00	-18.23	1.53 V	102	15.08	40.69
4	4874.00	51.05 AV	54.00	-2.95	1.53 V	102	10.36	40.69

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	1624.00	41.65 PK	74.00	-32.35	1.00 H	50	11.49	30.16
1	1624.00	31.37 AV	54.00	-22.63	1.00 H	50	1.21	30.16
2	*2437.00	112.04 PK			1.36 H	184	77.99	34.05
2	*2437.00	105.85 AV			1.36 H	184	71.80	34.05
3	3248.00	50.29 PK	74.00	-23.71	1.00 H	205	13.93	36.36
3	3248.00	41.88 AV	54.00	-12.12	1.00 H	205	5.52	36.36
4	4874.00	54.82 PK	74.00	-19.18	1.00 H	1	14.13	40.69
4	4874.00	49.47 AV	54.00	-4.53	1.00 H	1	8.78	40.69

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	**TEST MODE**	Mode 1
TESTED BY	Allen Chang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1608.00	40.67 PK	74.00	-33.33	1.20 V	158	10.54	30.13
1	1608.00	31.70 AV	54.00	-22.30	1.20 V	158	1.57	30.13
2	*2462.00	107.29 PK			1.10 V	270	73.13	34.16
2	*2462.00	101.96 AV			1.10 V	270	67.80	34.16
3	2483.50	54.86 PK	74.00	-19.14	1.10 V	270	20.60	34.26
3	2483.50	47.50 AV	54.00	-6.50	1.10 V	270	13.24	34.26
4	3216.00	48.87 PK	74.00	-25.13	1.40 V	65	12.53	36.33
4	3216.00	38.82 AV	54.00	-15.18	1.40 V	65	2.48	36.33
5	4924.00	57.07 PK	74.00	-16.93	1.25 V	115	16.21	40.86
5	4924.00	52.11 AV	54.00	-1.89	1.25 V	115	11.25	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1641.00	39.24 PK	74.00	-34.76	1.00 H	32	9.06	30.18
1	1641.00	29.67 AV	54.00	-24.33	1.00 H	32	-0.51	30.18
2	*2462.00	111.99 PK			1.15 H	265	77.83	34.16
2	*2462.00	105.46 AV			1.15 H	265	71.30	34.16
3	2483.50	56.81 PK	74.00	-17.19	1.15 H	265	22.55	34.26
3	2483.50	50.08 AV	54.00	-3.92	1.15 H	265	15.82	34.26
4	3282.00	52.46 PK	74.00	-21.54	1.00 H	345	16.07	36.40
4	3282.00	41.47 AV	54.00	-12.53	1.00 H	345	5.08	36.40
5	4924.00	57.05 PK	74.00	-16.95	1.00 H	150	16.19	40.86
5	4924.00	51.65 AV	54.00	-2.35	1.00 H	150	10.79	40.86

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Martin Lee		

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	166.50	34.52 QP	43.50	-8.98	1.08 H	187	24.41	10.11
2	207.35	33.47 QP	43.50	-10.03	1.52 H	146	22.85	10.62
3	265.58	38.14 QP	46.00	-7.86	1.18 H	87	23.72	14.42
4	399.85	32.18 QP	46.00	-13.82	1.10 H	258	14.13	18.05
5	499.80	37.56 QP	46.00	-8.44	1.00 H	325	17.76	19.80
6	534.20	37.60 QP	46.00	-8.40	1.98 H	40	17.17	20.43
7	659.50	37.69 QP	46.00	-8.31	1.89 H	47	14.84	22.85
8	798.65	40.69 QP	46.00	-5.31	1.58 H	41	15.55	25.14

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	136.48	29.06 QP	43.50	-14.44	1.18 V	141	17.41	11.65
2	150.00	31.26 QP	43.50	-12.24	1.14 V	262	20.39	10.87
3	166.09	34.17 QP	43.50	-9.33	1.00 V	162	24.05	10.12
4	206.60	32.61 QP	43.50	-10.89	1.20 V	312	22.03	10.58
5	260.80	35.96 QP	46.00	-10.04	1.71 V	205	21.61	14.35
6	399.10	33.58 QP	46.00	-12.42	1.68 V	1	15.56	18.02
7	499.48	39.33 QP	46.00	-6.67	1.82 V	119	19.54	19.79
8	534.50	37.41 QP	46.00	-8.59	1.01 V	53	16.97	20.44
9	622.95	39.10 QP	46.00	-6.90	1.09 V	357	16.18	22.92
10	798.35	38.43 QP	46.00	-7.57	2.03 V	261	13.29	25.14
11	895.00	33.59 QP	46.00	-12.41	1.48 V	347	9.29	24.30

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	1608.00	41.35 PK	74.00	-32.65	1.12 H	52	11.22	30.13
1	1608.00	31.34 AV	54.00	-22.66	1.12 H	52	1.21	30.13
2	2390.00	45.23 PK	74.00	-28.77	1.05 H	323	11.40	33.83
2	2390.00	39.66 AV	54.00	-14.34	1.05 H	323	5.83	33.83
3	*2412.00	105.73 PK			1.05 H	323	71.80	33.93
3	*2412.00	99.16 AV			1.05 H	323	65.23	33.93
4	3216.00	48.34 PK	74.00	-25.66	1.00 H	294	12.00	36.33
4	3216.00	35.61 AV	54.00	-18.39	1.00 H	294	-0.73	36.33
5	4824.00	52.08 PK	74.00	-21.92	1.08 H	325	11.42	40.66
5	4824.00	39.00 AV	54.00	-15.00	1.08 H	325	-1.66	40.66

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	1608.00	44.25 PK	74.00	-29.75	1.17 V	50	14.12	30.13
1	1608.00	36.87 AV	54.00	-17.13	1.17 V	50	6.74	30.13
2	2390.00	50.74 PK	74.00	-23.26	1.22 V	162	16.91	33.83
2	2390.00	43.96 AV	54.00	-10.04	1.22 V	162	10.13	33.83
3	*2412.00	111.24 PK			1.22 V	162	77.31	33.93
3	*2412.00	103.46 AV			1.22 V	162	69.53	33.93
4	3216.00	48.39 PK	74.00	-25.61	1.03 V	313	12.05	36.33
4	3216.00	36.91 AV	54.00	-17.09	1.03 V	313	0.57	36.33
5	4824.00	53.15 PK	74.00	-20.85	1.24 V	73	12.49	40.66
5	4824.00	45.58 AV	54.00	-8.42	1.24 V	73	4.92	40.66

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	1624.00	40.67 PK	74.00	-33.33	1.21 H	54	10.51	30.16
2	*2437.00	106.07 PK			1.27 H	37	72.02	34.05
2	*2437.00	99.44 AV			1.27 H	37	65.39	34.05
3	3248.00	48.02 PK	74.00	-25.98	1.14 H	293	11.66	36.36
4	4874.00	51.30 PK	74.00	-22.70	1.00 H	300	10.61	40.69
4	4874.00	39.47 AV	54.00	-14.53	1.00 H	300	-1.22	40.69

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	1624.00	42.61 PK	74.00	-31.39	1.10 V	55	12.45	30.16
1	1624.00	34.95 AV	54.00	-19.05	1.10 V	55	4.79	30.16
2	*2437.00	112.72 PK			1.18 V	39	78.67	34.05
2	*2437.00	105.82 AV			1.18 V	39	71.77	34.05
3	3248.00	48.70 PK	74.00	-25.30	1.10 V	104	12.34	36.36
3	3248.00	36.95 AV	54.00	-17.05	1.10 V	104	0.59	36.36
4	4874.00	52.84 PK	74.00	-21.16	1.19 V	236	12.15	40.69
4	4874.00	42.21 AV	54.00	-11.79	1.19 V	236	1.52	40.69

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1642.00	40.06 PK	74.00	-33.94	1.01 H	198	9.87	30.18
2	*2462.00	104.68 PK			1.40 H	98	70.52	34.16
2	*2462.00	98.03 AV			1.40 H	98	63.87	34.16
3	2483.50	43.80 PK	74.00	-30.20	1.40 H	98	9.54	34.26
3	2483.50	33.85 AV	54.00	-16.85	1.40 H	98	2.89	34.26
4	3284.00	47.41 PK	74.00	-26.59	1.00 H	357	11.01	36.40
5	4924.00	51.33 PK	74.00	-22.67	1.00 H	148	10.47	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1642.00	42.24 PK	74.00	-31.76	1.09 V	55	12.05	30.18
1	1642.00	34.71 AV	54.00	-19.29	1.09 V	55	4.52	30.18
2	*2462.00	111.60 PK			1.12 V	360	77.44	34.16
2	*2462.00	104.98 AV			1.12 V	360	70.82	34.16
3	2483.50	53.72 PK	74.00	-20.28	1.12 V	360	19.46	34.26
3	2483.50	47.10 AV	54.00	-6.90	1.12 V	360	12.84	34.26
4	3284.00	47.70 PK	74.00	-26.30	1.05 V	82	11.30	36.40
5	4924.00	45.10 AV	54.00	-8.90	1.21 V	49	4.24	40.86

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 3 (Long cable)
TESTED BY	Martin Lee		

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	133.80	30.50 QP	43.50	-13.00	1.25 H	62	18.73	11.77
2	166.80	37.50 QP	43.50	-6.00	1.04 H	87	27.40	10.10
3	205.80	35.80 QP	43.50	-7.70	2.24 H	44	25.27	10.53
4	219.00	34.80 QP	46.00	-11.20	1.18 H	84	23.48	11.32
5	266.70	38.50 QP	46.00	-7.50	1.07 H	91	24.07	14.43
6	300.40	38.10 QP	46.00	-7.90	1.52 H	136	22.75	15.35
7	399.50	32.80 QP	46.00	-13.20	1.31 H	271	14.76	18.04
8	499.70	39.10 QP	46.00	-6.90	1.21 H	62	19.30	19.80
9	533.40	40.10 QP	46.00	-5.90	1.62 H	95	19.68	20.42
10	599.70	38.10 QP	46.00	-7.90	1.62 H	77	16.48	21.62
11	674.00	40.10 QP	46.00	-5.90	1.08 H	241	16.94	23.16
12	799.80	42.80 QP	46.00	-3.20	1.31 H	81	17.66	25.14

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	63.40	32.10 QP	40.00	-7.90	1.04 V	225	25.52	6.58
2	99.60	34.50 QP	43.50	-9.00	1.18 V	75	24.13	10.37
3	133.80	31.00 QP	43.50	-12.50	1.95 V	88	19.23	11.77
4	166.60	35.10 QP	43.50	-8.40	1.07 V	71	25.00	10.10
5	200.90	34.20 QP	43.50	-9.30	1.05 V	85	23.97	10.23
6	261.00	36.50 QP	46.00	-9.50	1.15 V	82	22.15	14.35
7	399.50	32.80 QP	46.00	-13.20	1.04 V	332	14.76	18.04
8	498.80	38.10 QP	46.00	-7.90	1.25 V	32	18.33	19.77
9	657.50	41.20 QP	46.00	-4.80	1.71 V	85	18.40	22.80
10	799.50	41.80 QP	46.00	-4.20	1.28 V	315	16.66	25.14
11	897.00	36.50 QP	46.00	-9.50	1.13 V	207	12.20	24.30

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 3 (Short cable)
TESTED BY	Martin Lee		

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	163.40	32.88 QP	43.50	-10.62	1.00 H	151	22.70	10.18
2	211.70	32.48 QP	43.50	-11.02	1.26 H	21	21.60	10.88
3	239.10	35.45 QP	46.00	-10.55	1.85 H	88	22.92	12.53
4	266.58	36.86 QP	46.00	-9.14	1.70 H	131	22.43	14.43
5	298.43	33.39 QP	46.00	-12.61	1.27 H	169	18.10	15.29
6	39838	36.37 QP	46.00	-9.63	1.42 H	314	18.38	17.99
7	499.50	37.54 QP	46.00	-8.16	1.71 H	7	18.05	19.79
8	538.00	38.59 QP	46.00	-7.41	1.56 H	76	18.09	20.50
9	657.90	38.51 QP	46.00	-7.49	1.37 H	229	15.70	22.81
10	797.00	40.30 QP	46.00	-5.70	1.00 H	240	15.16	25.14
11	900.20	35.41 QP	46.00	-10.59	1.30 H	217	11.11	24.30

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	64.50	29.88 QP	40.00	-10.12	1.00 V	154	23.29	6.59
2	166.30	34.79 QP	43.50	-8.71	1.37 V	44	24.68	10.11
3	199.50	33.12 QP	43.50	-10.38	1.00 V	151	22.95	10.17
4	266.75	32.82 QP	46.00	-13.18	1.56 V	337	18.39	14.43
5	399.90	33.24 QP	46.00	-12.76	1.76 V	307	15.18	18.06
6	531.30	38.92 QP	46.00	-7.08	1.65 V	98	18.54	20.38
7	662.30	39.30 QP	46.00	-6.70	1.00 V	69	16.39	22.91
8	798.00	39.74 QP	46.00	-6.26	1.00 V	41	14.60	25.14
9	927.95	32.77 QP	46.00	-13.23	1.34 V	232	8.15	24.62

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 3
TESTED BY	Leo Hung		

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	1608.00	43.14 PK	74.00	-30.86	1.24 H	208	13.66	29.49
1	1608.00	35.29 AV	54.00	-18.71	1.24 H	208	5.81	29.49
2	2390.00	44.02 PK	74.00	-29.98	1.27 H	171	10.75	33.27
2	2390.00	36.98 AV	54.00	-17.02	1.27 H	171	3.71	33.27
3	*2412.00	99.63 PK			1.27 H	171	66.23	33.40
3	*2412.00	92.59 AV			1.27 H	171	59.19	33.40
4	3216.00	48.59 PK	74.00	-25.41	1.13 H	212	13.53	35.06
4	3216.00	40.04 AV	54.00	-13.96	1.13 H	212	4.98	35.06
5	4824.00	54.06 PK	74.00	-19.94	1.14 H	312	14.98	39.08
5	4824.00	48.49 AV	54.00	-5.51	1.14 H	312	9.41	39.08
6	9648.00	62.64 PK	74.00	-11.36	1.22 H	312	11.64	51.00
6	9648.00	52.59 AV	54.00	-1.41	1.22 H	312	1.59	51.00

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	1608.00	42.51 PK	74.00	-31.49	1.38 V	244	13.03	29.49
1	1608.00	33.62 AV	54.00	-20.38	1.38 V	244	4.14	29.49
2	2390.00	56.16 PK	74.00	-17.84	1.13 V	169	22.89	33.27
2	2390.00	50.32 AV	54.00	-3.68	1.13 V	169	17.05	33.27
3	*2412.00	111.77 PK			1.13 V	169	78.37	33.40
3	*2412.00	105.93 AV			1.13 V	169	72.53	33.40
4	3216.00	51.06 PK	74.00	-22.94	1.00 V	216	16.00	35.06
4	3216.00	45.49 AV	54.00	-8.51	1.00 V	216	10.43	35.06
5	4824.00	57.02 PK	74.00	-16.98	1.00 V	281	17.94	39.08
5	4824.00	52.77 AV	54.00	-1.23	1.00 V	281	13.69	39.08
6	9648.00	62.44 PK	74.00	-11.56	1.31 V	288	11.44	51.00
6	9648.00	52.75 AV	54.00	-1.25	1.31 V	288	1.75	51.00

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 3
TESTED BY	Leo Hung		

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	1624.00	41.98 PK	74.00	-32.02	1.00 H	252	12.46	29.52
1	1624.00	33.70 AV	54.00	-20.30	1.00 H	252	4.18	29.52
2	*2437.00	100.54 PK			1.41 H	334	67.01	33.53
2	*2437.00	93.57 AV			1.41 H	334	60.04	33.53
3	3248.00	48.84 PK	74.00	-25.16	1.03 H	24	13.74	35.10
3	3248.00	38.28 AV	54.00	-15.72	1.03 H	24	3.18	35.10
4	4874.00	53.93 PK	74.00	-20.07	1.08 H	196	14.86	39.07
4	4874.00	46.54 AV	54.00	-7.46	1.08 H	196	7.47	39.07
5	9748.00	62.38 PK	74.00	-11.62	1.35 H	169	10.88	51.50
5	9748.00	51.58 AV	54.00	-2.42	1.35 H	169	0.08	51.50

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	1624.00	42.46 PK	74.00	-31.54	1.37 V	230	12.94	29.52
1	1624.00	34.14 AV	54.00	-19.86	1.37 V	230	4.62	29.52
2	*2437.00	111.08 PK			1.07 V	193	77.55	33.53
2	*2437.00	104.63 AV			1.07 V	193	71.10	33.53
3	3248.00	50.41 PK	74.00	-23.59	1.00 V	143	15.31	35.10
3	3248.00	42.95 AV	54.00	-11.05	1.00 V	143	7.85	35.10
4	4874.00	54.10 PK	74.00	-19.90	1.24 V	307	15.03	39.07
4	4874.00	48.32 AV	54.00	-5.68	1.24 V	307	9.25	39.07
5	9748.00	63.26 PK	74.00	-10.74	1.38 V	254	11.76	51.50
5	9748.00	52.78 AV	54.00	-1.22	1.38 V	254	1.28	51.50

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 3
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1641.00	41.88 PK	74.00	-32.12	1.20 H	205	12.32	29.56
1	1641.00	33.17 AV	54.00	-20.83	1.20 H	205	3.61	29.56
2	*2462.00	99.84 PK			1.00 H	165	66.18	33.66
2	*2462.00	93.81 AV			1.00 H	165	60.15	33.66
3	2484.70	43.39 PK	74.00	-30.61	1.00 H	165	9.61	33.78
3	2484.70	37.36 AV	54.00	-16.64	1.00 H	165	3.58	33.78
4	3282.00	48.00 PK	74.00	-26.00	1.13 H	220	12.87	35.14
4	3282.00	35.90 AV	54.00	-18.10	1.13 H	220	0.77	35.14
5	4924.00	52.19 PK	74.00	-21.81	1.13 H	181	13.12	39.07
5	4924.00	44.67 AV	54.00	-9.33	1.13 H	181	5.60	39.07
6	9848.00	63.18 PK	74.00	-10.82	1.24 H	176	11.26	51.92
6	9848.00	52.71 AV	54.00	-1.29	1.24 H	176	0.79	51.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1641.00	41.36 PK	74.00	-32.64	1.38 V	237	11.80	29.56
1	1641.00	31.67 AV	54.00	-22.33	1.38 V	237	2.11	29.56
2	*2462.00	111.40 PK			1.06 V	237	77.74	33.66
2	*2462.00	104.53 AV			1.06 V	237	70.87	33.66
3	2484.70	54.95 PK	74.00	-19.05	1.06 V	237	21.17	33.78
3	2484.70	48.08 AV	54.00	-5.92	1.06 V	237	14.30	33.78
4	3282.00	49.08 PK	74.00	-24.92	1.14 V	219	13.95	35.14
4	3282.00	40.28 AV	54.00	-13.72	1.14 V	219	5.15	35.14
5	4924.00	55.34 PK	74.00	-18.66	1.20 V	104	16.27	39.07
5	4924.00	49.54 AV	54.00	-4.46	1.20 V	104	10.47	39.07
6	9848.00	62.94 PK	74.00	-11.06	1.05 V	246	11.02	51.92
6	9848.00	50.71 AV	54.00	-3.29	1.05 V	246	-1.21	51.92

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 (B)

EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode1
TESTED BY	Martin Lee		

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	133.34	24.59 QP	43.50	-18.91	1.60 H	164	12.80	11.79
2	166.40	35.42 QP	43.50	-8.08	1.27 H	68	25.31	10.11
3	206.40	34.14 QP	43.50	-9.36	1.40 H	128	23.57	10.57
4	219.60	35.02 QP	46.00	-10.98	1.15 H	190	23.66	11.36
5	266.23	37.65 QP	46.00	-8.35	1.20 H	261	23.22	14.43
6	300.00	37.90 QP	46.00	-8.10	1.83 H	252	22.56	15.34
7	399.00	30.41 QP	46.00	-15.59	1.56 H	357	12.39	18.02
8	499.50	38.51 QP	46.00	-7.49	1.00 H	179	18.72	19.79
9	534.50	38.90 QP	46.00	-7.10	1.39 H	116	18.46	20.44
10	658.80	39.24 QP	46.00	-6.76	1.70 H	209	16.41	22.83
11	798.75	41.43 QP	46.00	-4.57	1.38 H	356	16.29	25.14

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	63.00	29.14 QP	40.00	-10.86	1.00 V	143	22.56	6.58
2	99.50	31.04 QP	43.50	-12.46	1.47 V	349	20.68	10.36
3	133.63	26.61 QP	43.50	-16.89	1.71 V	161	14.83	11.78
4	166.60	33.57 QP	43.50	-9.93	1.28 V	351	23.47	10.10
5	206.70	32.39 QP	43.50	-11.11	1.77 V	176	21.81	10.58
6	259.05	35.81 QP	46.00	-10.19	1.81 V	51	21.58	14.23
7	401.50	31.81 QP	46.00	-14.19	1.50 V	263	13.74	18.07
8	499.50	37.09 QP	46.00	-8.91	1.43 V	79	17.30	19.79
9	658.80	39.90 QP	46.00	-6.10	1.00 V	242	17.07	22.83
10	800.50	39.96 QP	46.00	-6.04	1.24 V	50	14.83	25.13
11	895.00	34.63 QP	46.00	-11.37	1.64 V	357	10.33	24.30

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

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	1608.00	43.22 PK	74.00	-30.78	1.08 H	100	13.09	30.13
1	1608.00	33.76 AV	54.00	-20.24	1.08 H	100	3.63	30.13
2	2390.00	56.80 PK	74.00	-17.20	1.47 H	234	22.97	33.83
2	2390.00	49.57 AV	54.00	-4.43	1.47 H	234	15.74	33.83
3	*2412.00	104.81 PK			1.47 H	234	70.88	33.93
3	*2412.00	97.58 AV			1.47 H	234	63.65	33.93
4	3216.00	49.64 PK	74.00	-24.36	1.00 H	247	13.30	36.33
4	3216.00	38.90 AV	54.00	-15.10	1.00 H	247	2.56	36.33
5	4824.00	55.02 PK	74.00	-18.98	1.24 H	108	14.36	40.66
5	4824.00	48.71 AV	54.00	-5.29	1.24 H	108	8.05	40.66

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	1608.00	42.07 PK	74.00	-31.93	1.00 V	66	11.94	30.13
1	1608.00	31.86 AV	54.00	-22.14	1.00 V	66	1.73	30.13
2	2390.00	58.96 PK	74.00	-15.04	1.74 V	243	25.13	33.83
2	2390.00	51.74 AV	54.00	-2.26	1.74 V	243	17.91	33.83
3	*2412.00	108.97 PK			1.74 V	243	75.04	33.93
3	*2412.00	101.75 AV			1.74 V	243	67.82	33.93
4	3216.00	50.38 PK	74.00	-23.62	1.00 V	116	14.04	36.33
4	3216.00	41.29 AV	54.00	-12.71	1.00 V	116	4.95	36.33
5	4824.00	53.11 PK	74.00	-20.89	1.04 V	7	12.45	40.66
5	4824.00	46.53 AV	54.00	-7.47	1.04 V	7	5.87	40.66

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	MODEL	WLL3014
MODE	Channel 6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	TEST MODE	Mode 1
TESTED BY	Leo Hung		

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	1624.00	41.25 PK	74.00	-32.75	1.12 V	13	11.09	30.16
1	1624.00	31.62 AV	54.00	-22.38	1.12 V	13	1.46	30.16
2	*2437.00	104.21 PK			1.74 V	252	70.16	34.05
2	*2437.00	97.65 AV			1.74 V	252	63.60	34.05
3	3248.00	48.83 PK	74.00	-25.17	1.17 V	79	12.47	36.36
3	3248.00	38.52 AV	54.00	-15.48	1.17 V	79	2.16	36.36
4	4874.00	53.67 PK	74.00	-20.33	1.35 V	225	12.98	40.69
4	4874.00	45.26 AV	54.00	-8.74	1.35 V	225	4.57	40.69

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	1624.00	42.86 PK	74.00	-31.14	1.00 V	74	12.70	30.16
1	1624.00	31.82 AV	54.00	-22.18	1.00 V	74	1.66	30.16
2	*2437.00	108.84 PK			1.36 V	134	74.79	34.05
2	*2437.00	102.35 AV			1.36 V	134	68.30	34.05
3	3248.00	50.26 PK	74.00	-23.74	1.00 V	206	13.90	36.36
3	3248.00	41.94 AV	54.00	-12.06	1.00 V	206	5.58	36.36
4	4874.00	52.41 PK	74.00	-21.59	1.00 V	350	11.72	40.69
4	4874.00	44.64 AV	54.00	-9.36	1.00 V	350	3.95	40.69

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 65 % RH, 991 hPa	**TEST MODE**	Mode 1
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1641.00	41.04 PK	74.00	-32.96	1.09 H	40	10.86	30.18
1	1641.00	30.92 AV	54.00	-23.08	1.09 H	40	0.74	30.18
2	*2462.00	105.64 PK			1.67 H	252	71.48	34.16
2	*2462.00	98.13 AV			1.67 H	252	63.97	34.16
3	2483.50	55.76 PK	74.00	-18.24	1.67 H	252	21.50	34.26
3	2483.50	49.25 AV	54.00	-4.75	1.67 H	252	14.99	34.26
4	3282.00	48.04 PK	74.00	-25.96	1.03 H	79	11.65	36.40
4	3282.00	37.32 AV	54.00	-16.68	1.03 H	79	0.93	36.40
5	4924.00	54.70 PK	74.00	-19.30	1.08 H	110	13.84	40.86
5	4924.00	46.50 AV	54.00	-7.50	1.08 H	110	5.64	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1641.00	41.51 PK	74.00	-32.49	1.00 H	70	11.33	30.18
1	1641.00	31.15 AV	54.00	-22.85	1.00 H	70	0.97	30.18
2	*2462.00	107.59 PK			1.07 H	334	73.43	34.16
2	*2462.00	100.99 AV			1.07 H	334	66.83	34.16
3	2483.50	59.71 PK	74.00	-14.29	1.07 H	334	25.45	34.26
3	**2483.50**	**53.11 AV**	**54.00**	**-0.89**	**1.07 H**	**334**	**18.85**	**34.26**
4	3282.00	50.39 PK	74.00	-23.61	1.00 H	204	14.00	36.40
4	3282.00	42.89 AV	54.00	-11.11	1.00 H	204	6.50	36.40
5	4924.00	52.70 PK	74.00	-21.30	1.00 H	3	11.84	40.86
5	4924.00	45.66 AV	54.00	-8.34	1.00 H	3	4.80	40.86

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Martin Lee		

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	166.50	34.52 QP	43.50	-8.98	1.08 H	187	24.41	10.11
2	207.35	33.47 QP	43.50	-10.03	1.52 H	146	22.85	10.62
3	265.58	38.14 QP	46.00	-7.86	1.18 H	87	23.72	14.42
4	399.85	32.18 QP	46.00	-13.82	1.10 H	258	14.13	18.05
5	499.80	37.56 QP	46.00	-8.44	1.00 H	325	17.76	19.80
6	534.20	37.60 QP	46.00	-8.40	1.98 H	40	17.17	20.43
7	659.50	37.69 QP	46.00	-8.31	1.89 H	47	14.84	22.85
8	798.65	40.69 QP	46.00	-5.31	1.58 H	41	15.55	25.14

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	136.48	29.06 QP	43.50	-14.44	1.18 V	141	17.41	11.65
2	150.00	31.26 QP	43.50	-12.24	1.14 V	262	20.39	10.87
3	166.09	34.17 QP	43.50	-9.33	1.00 V	162	24.05	10.12
4	206.60	32.61 QP	43.50	-10.89	1.20 V	312	22.03	10.58
5	260.80	35.96 QP	46.00	-10.04	1.71 V	205	21.61	14.35
6	399.10	33.58 QP	46.00	-12.42	1.68 V	1	15.56	18.02
7	499.48	39.33 QP	46.00	-6.67	1.82 V	119	19.54	19.79
8	534.50	37.41 QP	46.00	-8.59	1.01 V	53	16.97	20.44
9	622.95	39.10 QP	46.00	-6.90	1.09 V	357	16.18	22.92
10	798.35	38.43 QP	46.00	-7.57	2.03 V	261	13.29	25.14
11	895.00	33.59 QP	46.00	-12.41	1.48 V	347	9.29	24.30

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	1608.00	42.65 PK	74.00	-31.35	1.24 H	28	12.52	30.13
1	1608.00	31.50 AV	54.00	-22.50	1.24 H	26	1.37	30.13
2	2390.00	47.23 PK	74.00	-26.77	1.31 H	360	13.40	33.83
2	2390.00	41.07 AV	54.00	-12.93	1.31 H	360	7.24	33.83
3	*2412.00	99.51 PK			1.31 H	360	65.58	33.93
3	*2412.00	93.35 AV			1.31 H	360	59.42	33.93
4	3216.00	48.77 PK	74.00	-25.23	1.00 H	30	12.43	36.33
4	3216.00	35.33 AV	54.00	-18.67	1.00 H	30	-1.01	36.33
5	4824.00	52.04 PK	74.00	-21.96	1.00 H	215	11.38	40.66
5	4824.00	40.83 AV	54.00	-13.17	1.00 H	215	0.17	40.66

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	1608.00	44.78 PK	74.00	-29.22	1.17 V	50	14.65	30.13
1	1608.00	36.06 AV	54.00	-17.94	1.17 V	50	5.93	30.13
2	2390.00	55.33 PK	74.00	-18.67	1.14 V	1	21.50	33.83
2	2390.00	49.06 AV	54.00	-4.94	1.14 V	1	15.23	33.83
3	*2412.00	107.61 PK			1.14 V	1	73.68	33.93
3	*2412.00	101.34 AV			1.14 V	1	67.41	33.93
4	3216.00	50.13 PK	74.00	-23.87	1.21 V	314	13.79	36.33
4	3216.00	37.37 AV	54.00	-16.63	1.21 V	314	1.03	36.33
5	4824.00	51.73 PK	74.00	-22.27	1.14 V	49	11.07	40.66
5	4824.00	41.24 AV	54.00	-12.76	1.14 V	49	0.58	40.66

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 6	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

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	1624.00	41.48 PK	74.00	-32.52	1.16 H	31	11.32	30.16
1	1624.00	32.10 AV	54.00	-21.90	1.16 H	31	1.94	30.16
2	*2437.00	99.40 PK			1.40 H	106	65.35	34.05
2	*2437.00	92.23 AV			1.40 H	106	58.18	34.05
3	3248.00	49.14 PK	74.00	-24.86	1.00 H	11	12.78	36.36
3	3248.00	35.29 AV	54.00	-18.71	1.00 H	11	-1.07	36.36
4	4874.00	51.15 PK	74.00	-22.85	1.24 H	234	10.46	40.69
4	4874.00	39.56 AV	54.00	-14.44	1.24 H	234	-1.13	40.69

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	1624.00	44.35 PK	74.00	-29.65	1.11 V	51	14.19	30.16
1	1624.00	36.72 AV	54.00	-17.28	1.11V	51	6.56	30.16
2	*2437.00	108.78 PK			1.18 V	38	74.73	34.05
2	*2437.00	101.75 AV			1.18 V	38	67.70	34.05
3	3248.00	49.15 PK	74.00	-24.85	1.00 V	223	12.79	36.36
3	3248.00	38.15 AV	54.00	-15.85	1.00 V	223	1.79	36.36
4	4874.00	52.69 PK	74.00	-21.31	1.18 V	72	12.00	40.69
4	4874.00	48.77 AV	54.00	-5.23	1.18 V	72	8.08	40.69

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 2
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1641.00	42.07 PK	74.00	-31.93	1.02 H	223	11.89	30.18
1	1641.00	29.48 AV	54.00	-24.52	1.02 H	223	-0.70	30.18
2	*2462.00	101.37 PK			1.31 H	20	67.21	34.16
2	*2462.00	95.20 AV			1.31 H	20	61.04	34.16
3	2483.50	49.51 PK	74.00	-24.49	1.31 H	20	15.25	34.26
3	2483.50	43.34 AV	54.00	-10.66	1.31 H	20	9.08	34.26
4	3282.00	47.82 PK	74.00	-26.18	1.14 H	274	11.43	36.40
4	3282.00	35.08 AV	54.00	-18.92	1.14 H	274	-1.31	36.40
5	4924.00	51.94 PK	74.00	-22.06	1.00 H	219	11.08	40.86
5	4924.00	40.70 AV	54.00	-13.30	1.00 H	219	-0.16	40.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1641.00	43.75 PK	74.00	-30.25	1.13 V	55	13.57	30.18
1	1641.00	36.38 AV	54.00	-17.62	1.13 V	55	6.20	30.18
2	*2462.00	108.78 PK			1.12 V	360	74.62	34.16
2	*2462.00	101.37 AV			1.12 V	360	67.21	34.16
3	2483.50	57.92 PK	74.00	-16.08	1.12 V	360	23.66	34.26
3	2483.50	51.51 AV	54.00	-2.49	1.12 V	360	17.25	34.26
4	3282.00	48.59 PK	74.00	-25.41	1.06 V	306	12.20	36.40
4	3282.00	35.43 AV	54.00	-18.57	1.06 V	306	-0.96	36.40
5	4924.00	51.91 PK	74.00	-22.09	1.14 V	49	11.05	40.86
5	4924.00	42.04 AV	54.00	-11.96	1.14 V	49	1.18	40.86

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 3 (Long cable)
TESTED BY	Martin Lee		

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	133.80	30.50 QP	43.50	-13.00	1.25 H	62	18.73	11.77
2	166.80	37.50 QP	43.50	-6.00	1.04 H	87	27.40	10.10
3	205.80	35.80 QP	43.50	-7.70	2.24 H	44	25.27	10.53
4	219.00	34.80 QP	46.00	-11.20	1.18 H	84	23.48	11.32
5	266.70	38.50 QP	46.00	-7.50	1.07 H	91	24.07	14.43
6	300.40	38.10 QP	46.00	-7.90	1.52 H	136	22.75	15.35
7	399.50	32.80 QP	46.00	-13.20	1.31 H	271	14.76	18.04
8	499.70	39.10 QP	46.00	-6.90	1.21 H	62	19.30	19.80
9	533.40	40.10 QP	46.00	-5.90	1.62 H	95	19.68	20.42
10	599.70	38.10 QP	46.00	-7.90	1.62 H	77	16.48	21.62
11	674.00	40.10 QP	46.00	-5.90	1.08 H	241	16.94	23.16
12	799.80	42.80 QP	46.00	-3.20	1.31 H	81	17.66	25.14

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	63.40	32.10 QP	40.00	-7.90	1.04 V	225	25.52	6.58
2	99.60	34.50 QP	43.50	-9.00	1.18 V	75	24.13	10.37
3	133.80	31.00 QP	43.50	-12.50	1.95 V	88	19.23	11.77
4	166.60	35.10 QP	43.50	-8.40	1.07 V	71	25.00	10.10
5	200.90	34.20 QP	43.50	-9.30	1.05 V	85	23.97	10.23
6	261.00	36.50 QP	46.00	-9.50	1.15 V	82	22.15	14.35
7	399.50	32.80 QP	46.00	-13.20	1.04 V	332	14.76	18.04
8	498.80	38.10 QP	46.00	-7.90	1.25 V	32	18.33	19.77
9	657.50	41.20 QP	46.00	-4.80	1.71 V	85	18.40	22.80
10	799.50	41.80 QP	46.00	-4.20	1.28 V	315	16.66	25.14
11	897.00	36.50 QP	46.00	-9.50	1.13 V	207	12.20	24.30

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26 deg. C, 72 % RH, 991 hPa	**TEST MODE**	Mode 3 (Short cable)
TESTED BY	Martin Lee		

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	163.40	32.88 QP	43.50	-10.62	1.00 H	151	22.70	10.18
2	211.70	32.48 QP	43.50	-11.02	1.26 H	21	21.60	10.88
3	239.10	35.45 QP	46.00	-10.55	1.85 H	88	22.92	12.53
4	266.58	36.86 QP	46.00	-9.14	1.70 H	131	22.43	14.43
5	298.43	33.39 QP	46.00	-12.61	1.27 H	169	18.10	15.29
6	39838	36.37 QP	46.00	-9.63	1.42 H	314	18.38	17.99
7	499.50	37.54 QP	46.00	-8.16	1.71 H	7	18.05	19.79
8	538.00	38.59 QP	46.00	-7.41	1.56 H	76	18.09	20.50
9	657.90	38.51 QP	46.00	-7.49	1.37 H	229	15.70	22.81
10	797.00	40.30 QP	46.00	-5.70	1.00 H	240	15.16	25.14
11	900.20	35.41 QP	46.00	-10.59	1.30 H	217	11.11	24.30

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	64.50	29.88 QP	40.00	-10.12	1.00 V	154	23.29	6.59
2	166.30	34.79 QP	43.50	-8.71	1.37 V	44	24.68	10.11
3	199.50	33.12 QP	43.50	-10.38	1.00 V	151	22.95	10.17
4	266.75	32.82 QP	46.00	-13.18	1.56 V	337	18.39	14.43
5	399.90	33.24 QP	46.00	-12.76	1.76 V	307	15.18	18.06
6	531.30	38.92 QP	46.00	-7.08	1.65 V	98	18.54	20.38
7	662.30	39.30 QP	46.00	-6.70	1.00 V	69	16.39	22.91
8	798.00	39.74 QP	46.00	-6.26	1.00 V	41	14.60	25.14
9	927.95	32.77 QP	46.00	-13.23	1.34 V	232	8.15	24.62

REMARKS: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 1	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 3
TESTED BY	Leo Hung		

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	1608.00	42.70 PK	74.00	-31.30	1.00 H	319	13.22	29.49
1	1608.00	34.33 AV	54.00	-19.67	1.00 H	319	4.85	29.49
2	2390.00	49.07 PK	74.00	-24.93	1.00 H	165	15.80	33.27
2	2390.00	42.22 AV	54.00	-11.78	1.00 H	165	8.95	33.27
3	*2412.00	101.39 PK			1.00 H	165	67.99	33.40
3	*2412.00	94.54 AV			1.00 H	165	61.14	33.40
4	3216.00	49.76 PK	74.00	-24.24	1.03 H	3	14.70	35.06
4	3216.00	40.84 AV	54.00	-13.16	1.03 H	3	5.78	35.06
5	4824.00	50.54 PK	74.00	-23.46	1.00 H	208	11.46	39.08
5	4824.00	41.95 AV	54.00	-12.05	1.00 H	208	2.87	39.08
6	9648.00	60.68 PK	74.00	-13.32	1.10 H	246	9.68	51.00
6	9648.00	48.45 AV	54.00	-5.55	1.10 H	246	-2.55	51.00

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	1608.00	42.06 PK	74.00	-31.94	1.40 V	226	12.58	29.49
1	1608.00	33.97 AV	54.00	-20.03	1.40 V	226	4.49	29.49
2	2390.00	55.99 PK	74.00	-18.01	1.22 V	44	22.72	33.27
2	2390.00	48.77 AV	54.00	-5.23	1.22 V	44	15.50	33.27
3	*2412.00	108.31 PK			1.22 V	44	74.91	33.40
3	*2412.00	101.09 AV			1.22 V	44	67.69	33.40
4	3216.00	50.29 PK	74.00	-23.71	1.40 V	64	15.23	35.06
4	3216.00	43.66 AV	54.00	-10.34	1.40 V	64	8.60	35.06
5	4824.00	51.82 PK	74.00	-22.18	1.09 V	64	12.74	39.08
5	4824.00	44.24 AV	54.00	-9.76	1.09 V	64	5.16	39.08
6	9648.00	61.19 PK	74.00	-12.81	1.04 V	292	10.19	51.00
6	9648.00	49.17 AV	54.00	-4.83	1.04 V	292	-1.83	51.00

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	MODEL	WLL3014
MODE	Channel 6	FREQUENCY RANGE	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	TEST MODE	Mode3
TESTED BY	Leo Hung		

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	1624.00	41.89 PK	74.00	-32.11	1.00 H	322	12.37	29.52
1	1624.00	33.23 AV	54.00	-20.77	1.00 H	322	3.71	29.52
2	*2437.00	101.81 PK			1.00 H	176	68.28	33.53
2	*2437.00	95.51 AV			1.00 H	176	61.98	33.53
3	3249.00	48.74 PK	74.00	-25.26	1.03 H	360	13.64	35.10
3	3249.00	39.09 AV	54.00	-14.91	1.03 H	360	3.99	35.10
4	4874.00	53.52 PK	74.00	-20.48	1.00 H	197	14.45	39.07
4	4874.00	47.29 AV	54.00	-6.71	1.00 H	197	8.22	39.07
5	7311.00	57.76 PK	74.00	-16.24	1.00 H	300	10.82	46.95
5	7311.00	44.51 AV	54.00	-9.49	1.00 H	300	-2.43	46.95
6	9748.00	62.21 PK	74.00	-11.79	1.04 H	212	10.71	51.50
6	9748.00	49.70 AV	54.00	-4.30	1.04 H	212	-1.80	51.50

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	1624.00	42.68 PK	74.00	-31.32	1.40 V	228	13.16	29.52
1	1624.00	33.21 AV	54.00	-20.79	1.40 V	228	3.69	29.52
2	*2437.00	108.16 PK			1.07 V	184	74.63	33.53
2	*2437.00	101.85 AV			1.07 V	184	68.32	33.53
3	3249.00	50.09 PK	74.00	-23.91	1.40 V	102	14.99	35.10
3	3249.00	43.04 AV	54.00	-10.96	1.40 V	102	7.94	35.10
4	4874.00	57.61 PK	74.00	-16.39	1.40 V	101	18.54	39.07
4	4874.00	51.83 AV	54.00	-2.17	1.40 V	101	12.76	39.07
5	7311.00	59.49 PK	74.00	-14.51	1.40 V	293	12.55	46.95
5	7311.00	46.84 AV	54.00	-7.16	1.40 V	293	-0.10	46.95
6	9748.00	61.77 PK	74.00	-12.23	1.00 V	253	10.27	51.50
6	9748.00	52.15 AV	54.00	-1.85	1.00 V	253	0.65	51.50

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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 LAN Mini PCI Card	**MODEL**	WLL3014
MODE	Channel 11	**FREQUENCY RANGE**	1 ~ 25 GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24 deg. C, 64 % RH, 991 hPa	**TEST MODE**	Mode 3
TESTED BY	Leo Hung		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3M

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	1641.00	41.03 PK	74.00	-32.97	1.19 H	195	11.47	29.56
1	1641.00	31.37 AV	54.00	-22.63	1.19 H	195	1.81	29.56
2	*2462.00	98.36 PK			1.39 H	50	64.70	33.66
2	*2462.00	91.41 AV			1.39 H	50	57.75	33.66
3	2483.50	47.02 PK	74.00	-26.98	1.39 H	50	13.25	33.77
3	2483.50	40.07 AV	54.00	-13.93	1.39 H	50	6.30	33.77
4	3282.00	47.36 PK	74.00	-26.64	1.04 H	2	12.23	35.14
4	3282.00	37.25 AV	54.00	-16.75	1.04 H	2	2.12	35.14
5	4924.00	49.95 PK	74.00	-24.05	1.07 H	142	10.88	39.07
5	4924.00	38.55 AV	54.00	-15.45	1.07 H	142	-0.52	39.07
6	9848.00	61.64 PK	74.00	-12.36	1.00 H	27	9.72	51.92
6	9848.00	48.97 AV	54.00	-5.03	1.00 H	27	-2.95	51.92

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3M

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	1641.00	41.30 PK	74.00	-32.70	1.01 V	95	11.74	29.56
1	1641.00	31.72 AV	54.00	-22.28	1.01 V	95	2.16	29.56
2	*2462.00	108.89 PK			1.08 V	168	75.23	33.66
2	*2462.00	101.65 AV			1.08 V	168	67.99	33.66
3	2483.50	59.55 PK	74.00	-14.45	1.08 V	168	25.78	33.77
3	2483.50	52.31 AV	54.00	-1.69	1.08 V	168	18.54	33.77
4	3282.00	49.34 PK	74.00	-24.66	1.13 V	219	14.21	35.14
4	3282.00	40.37 AV	54.00	-13.63	1.13 V	219	5.24	35.14
5	4924.00	55.67 PK	74.00	-18.33	1.43 V	94	16.60	39.07
5	4924.00	49.94 AV	54.00	-4.06	1.43 V	94	10.87	39.07
6	9848.00	61.93 PK	74.00	-12.07	1.05 V	125	10.01	51.92
6	9848.00	49.04 AV	54.00	-4.96	1.05 V	125	-2.88	51.92

REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
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	Aug. 12, 2005

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

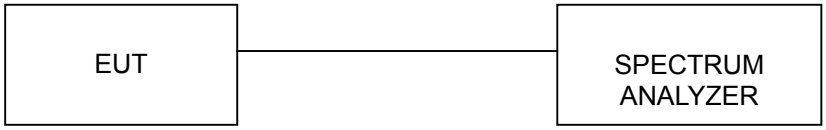
4.3.3 TEST PROCEDURE

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

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

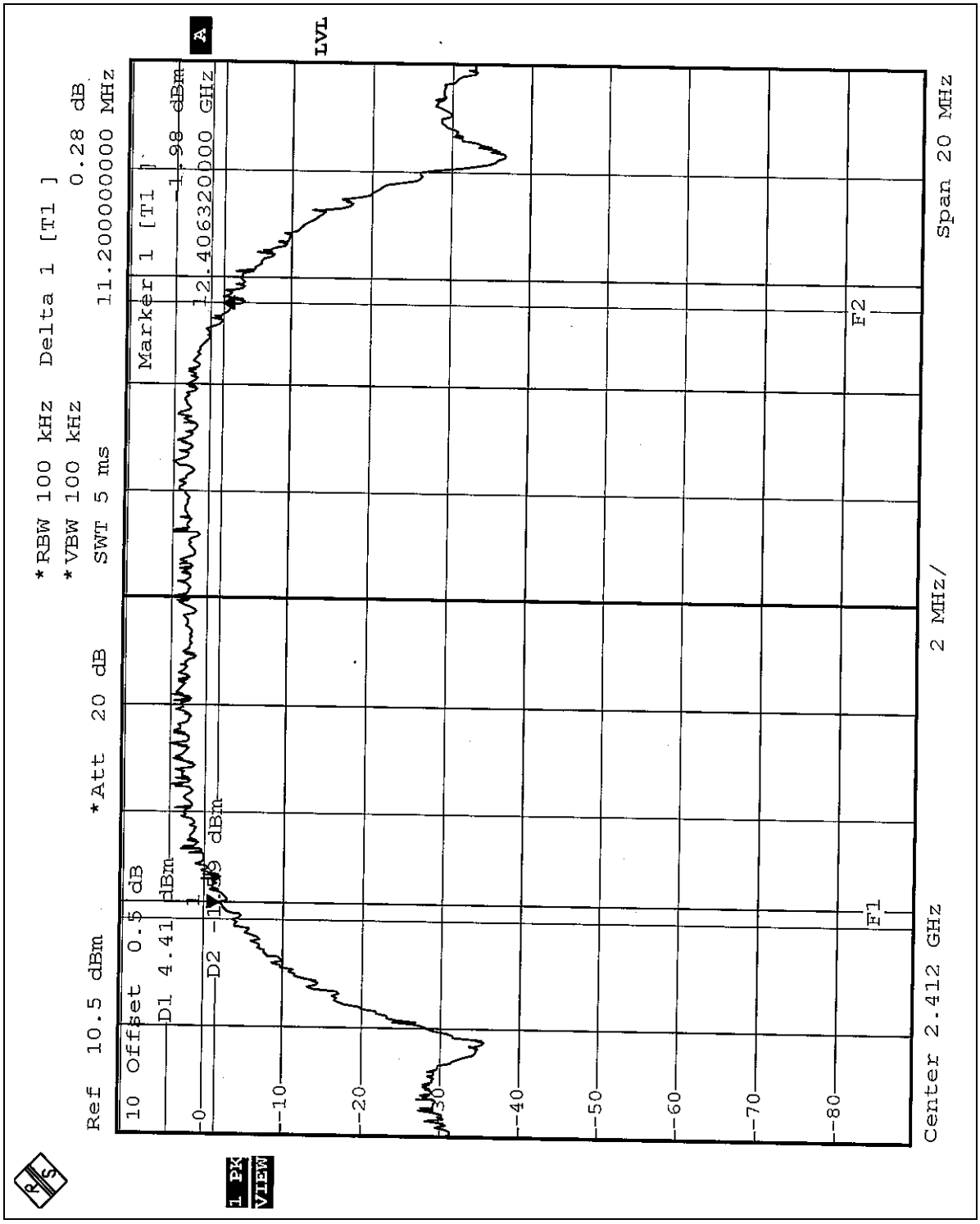
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS (A)

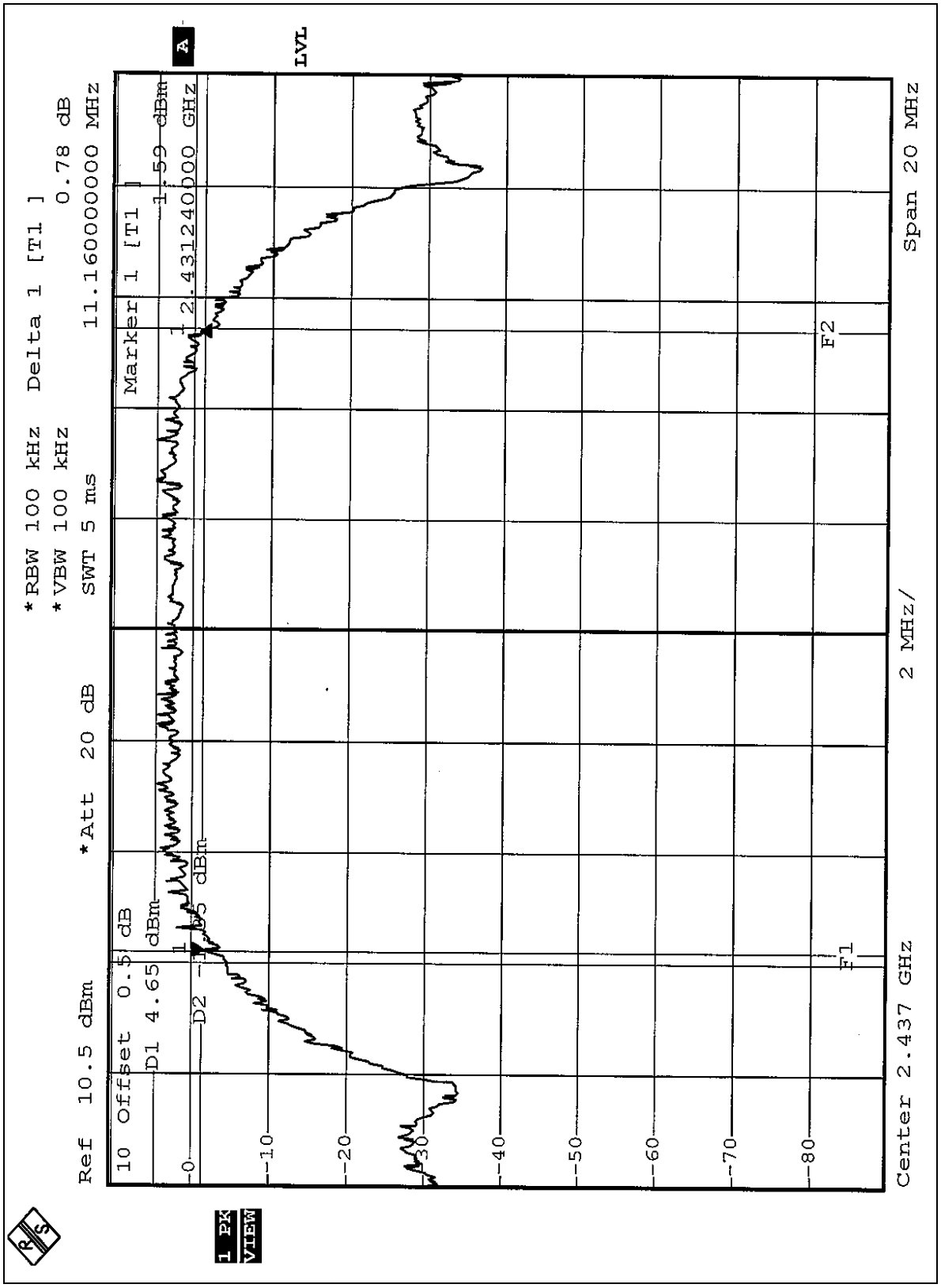
EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 65%RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.20	0.5	PASS
6	2437	11.16	0.5	PASS
11	2462	10.60	0.5	PASS

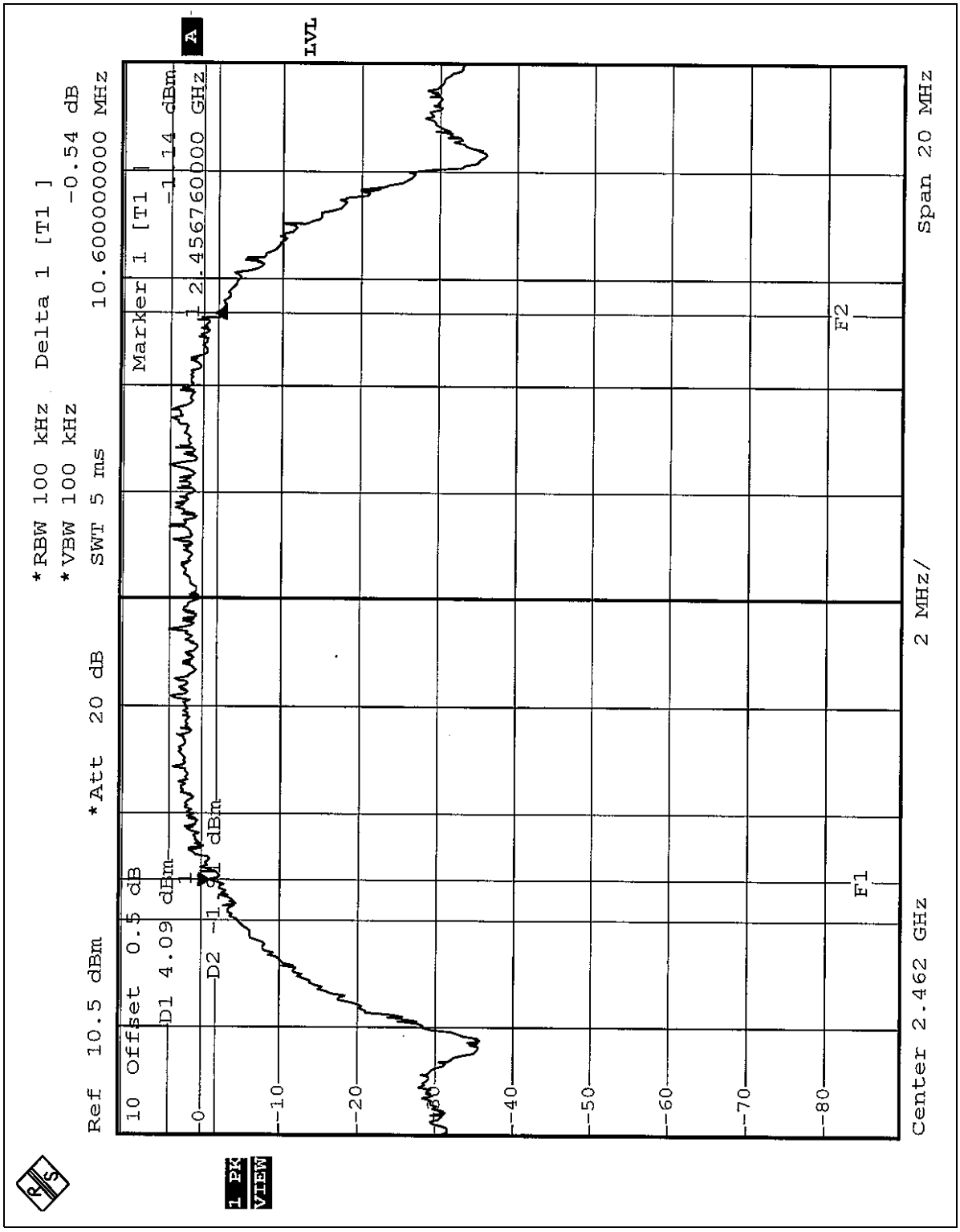
CH1


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.28 dB
11.20000000 MHz
Marker 1 [T1]
-1.98 dBm
12.40632000 GHz
Ref 10.5 dBm
*Att 20 dB
Offset 0.5 dB
D1 4.41 dBm
D2 -15.59 dBm
LVL
A
F1
F2
Center 2.412 GHz
2 MHz/
Span 20 MHz
1 PK
VIEW

CH6


Ref 10.5 dBm
10 Offset 0.5 dB
D1 4.65 dBm
D2 -1.35 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.78 dB
11.160000000 MHz
Marker 1 [T1]
-1.59 dBm
2.431240000 GHz
LVL
A
1 PK
VIEW
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

CH11

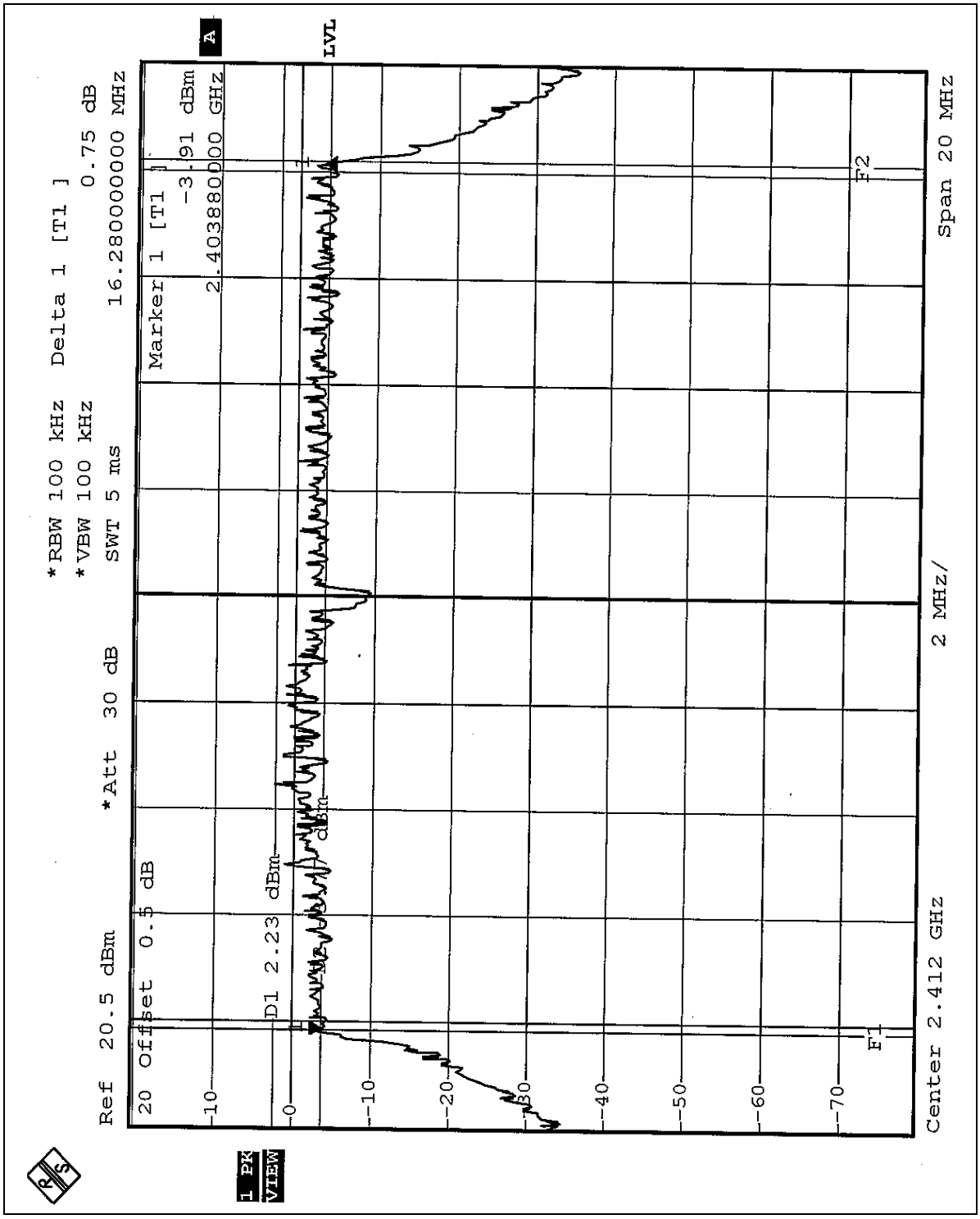

RBW 100 kHz
VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.54 dB
10.600000000 MHz
Marker 1 [T1]
-1.14 dBm
2.456760000 GHz
Ref 10.5 dBm
Offset 0.5 dB
Att 20 dB
D1 4.09 dBm
D2 -1.91 dBm
Center 2.462 GHz
2 MHz/
Span 20 MHz
F1
F2
LVL
1 PK VIEW

4.3.8 TEST RESULTS (B)

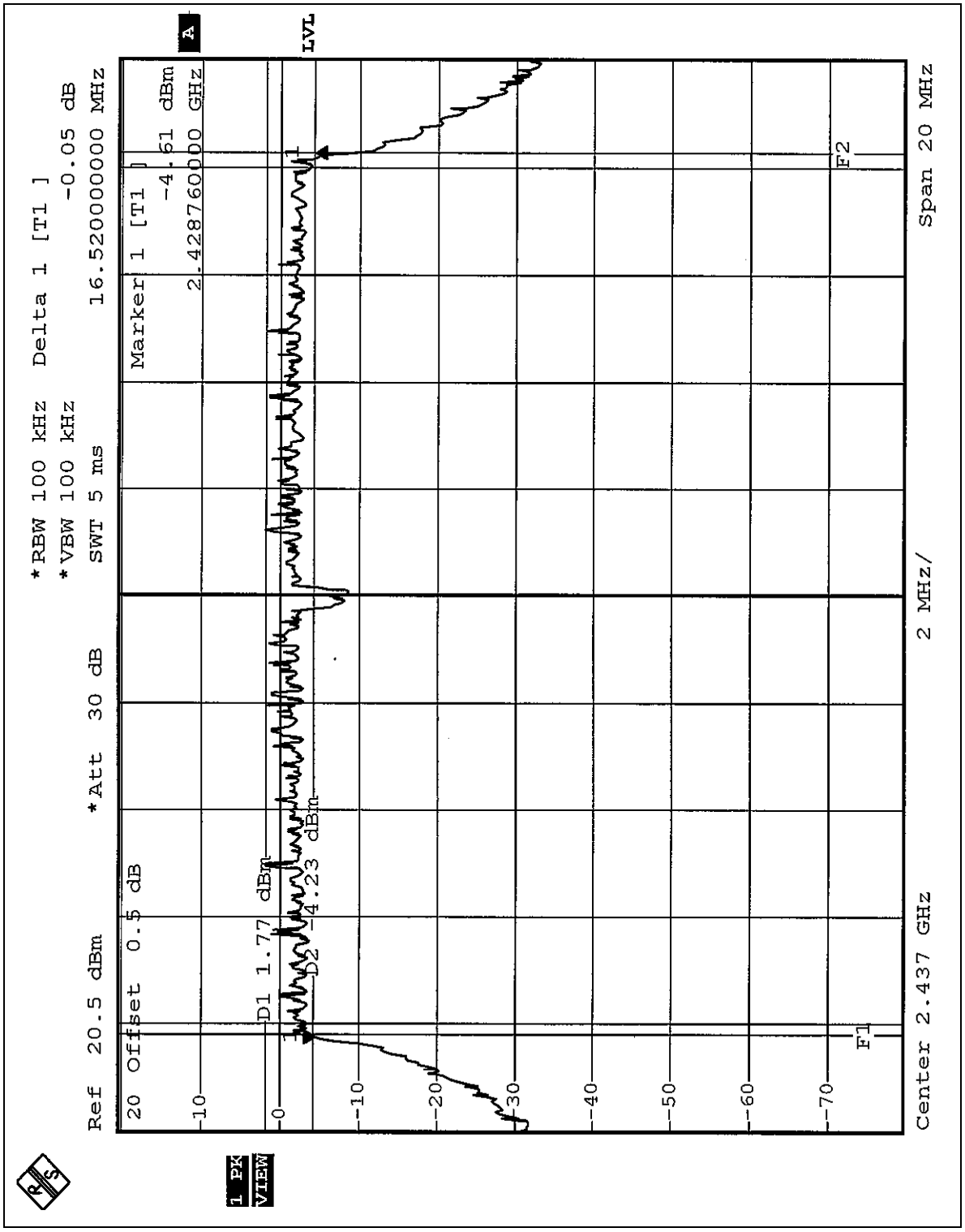
EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 65%RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.28	0.5	PASS
6	2437	16.52	0.5	PASS
11	2462	16.48	0.5	PASS

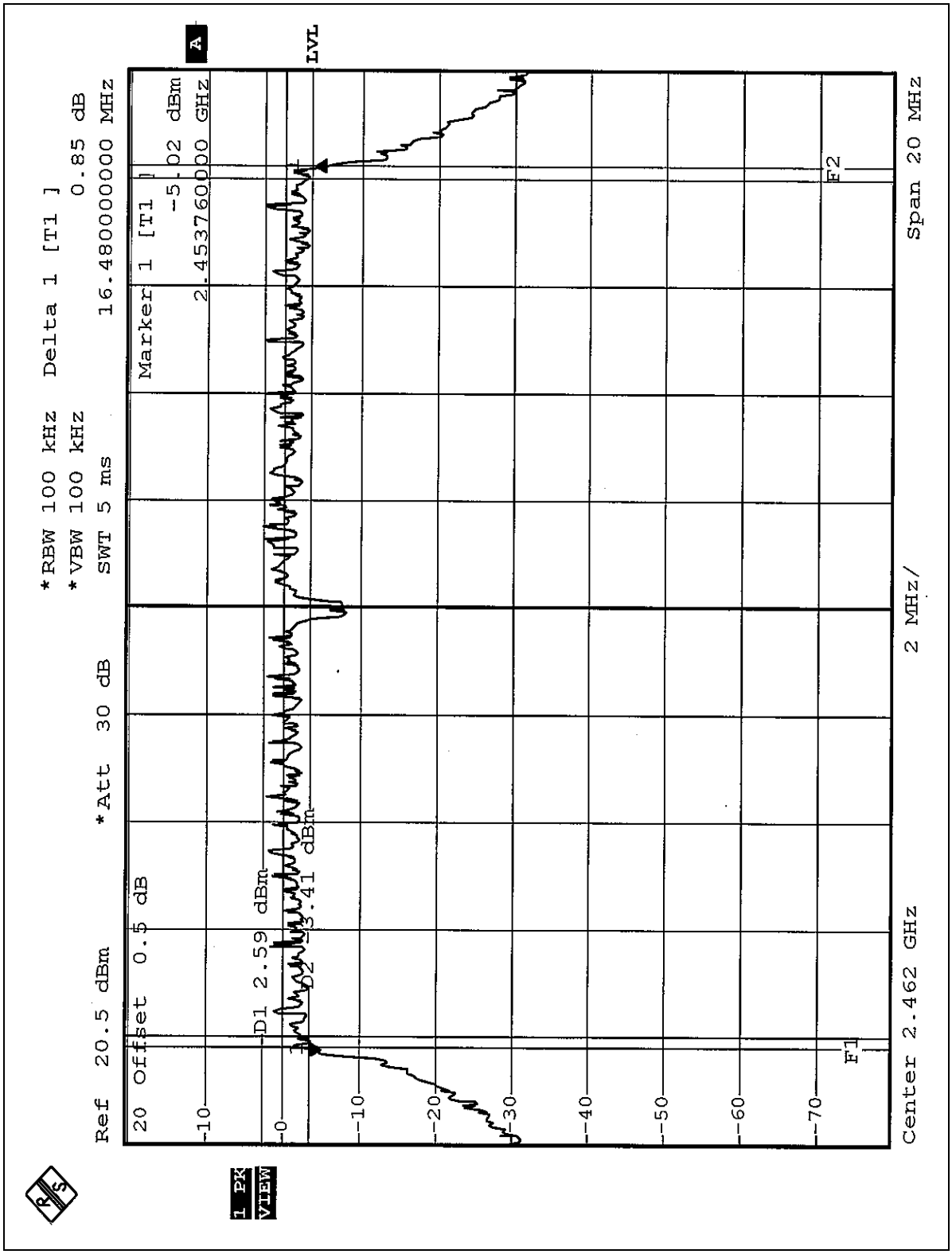
CH1


RBW 100 kHz
VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.75 dB
16.280000000 MHz
Marker 1 [T1]
-3.91 dBm
2.403880000 GHz
Ref 20.5 dBm
Offset 0.5 dB
Att 30 dB
D1 2.23 dBm
Center 2.412 GHz
2 MHz/
Span 20 MHz
F1
F2
LVL
1 PK VIEW

CH6


*RBW 100 kHz
Delta 1 [T1]
-0.05 dB
*VBW 100 kHz
SWT 5 ms
16.520000000 MHz
Marker 1 [T1]
-4.61 dBm
2.428760000 GHz
Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
D1 1.77 dBm
D2 -4.23 dBm
Center 2.437 GHz
2 MHz/
Span 20 MHz
F1
F2
1 PK VIEW

CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.85 dB
16.480000000 MHz
Marker 1 [T1]
-5.02 dBm
2.453760000 GHz
Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
D1 2.59 dBm
3.41 dBm
Center 2.462 GHz
2 MHz/
Span 20 MHz
F1
F2
LVL
A
1 PK
VIEW

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
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 01, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

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 (A)

EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 65%RH, 991 hPa
TEST MODE	Mode 1, Mode 2, Mode 3	**TESTED BY**	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.06	30	PASS
6	2437	15.00	30	PASS
11	2462	15.03	30	PASS

4.4.8 TEST RESULTS (B)

EUT	Wireless LAN Mini PCI Card	MODEL	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991 hPa
TEST MODE	Mode 1, Mode 2, Mode 3	TESTED BY	Leo Hung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.04	30	PASS
6	2437	15.01	30	PASS
11	2462	15.05	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	Aug. 12, 2005

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 3 kHz RBW and 30 kHz 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

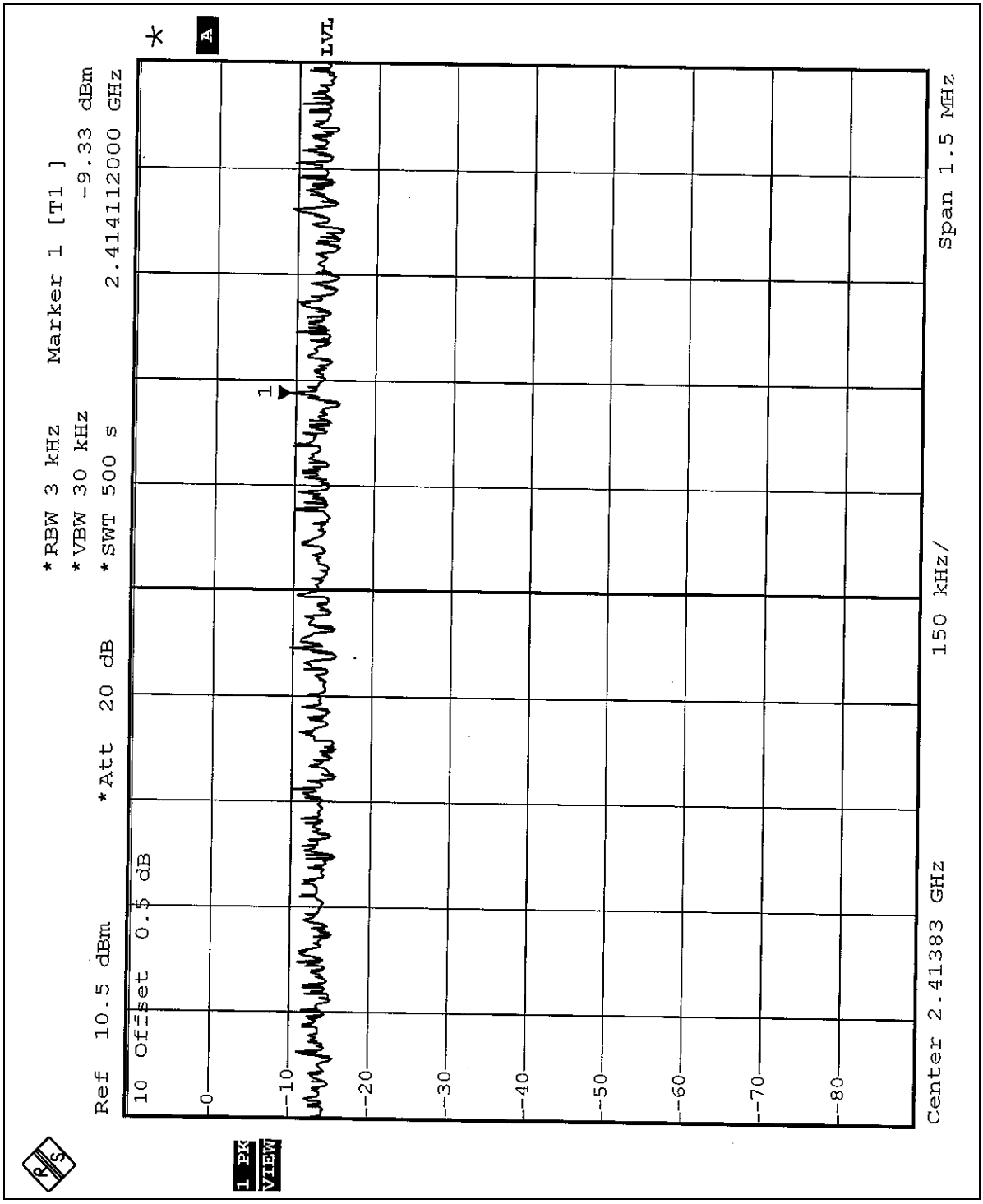
Same as 4.3.6

4.5.7 TEST RESULTS (A)

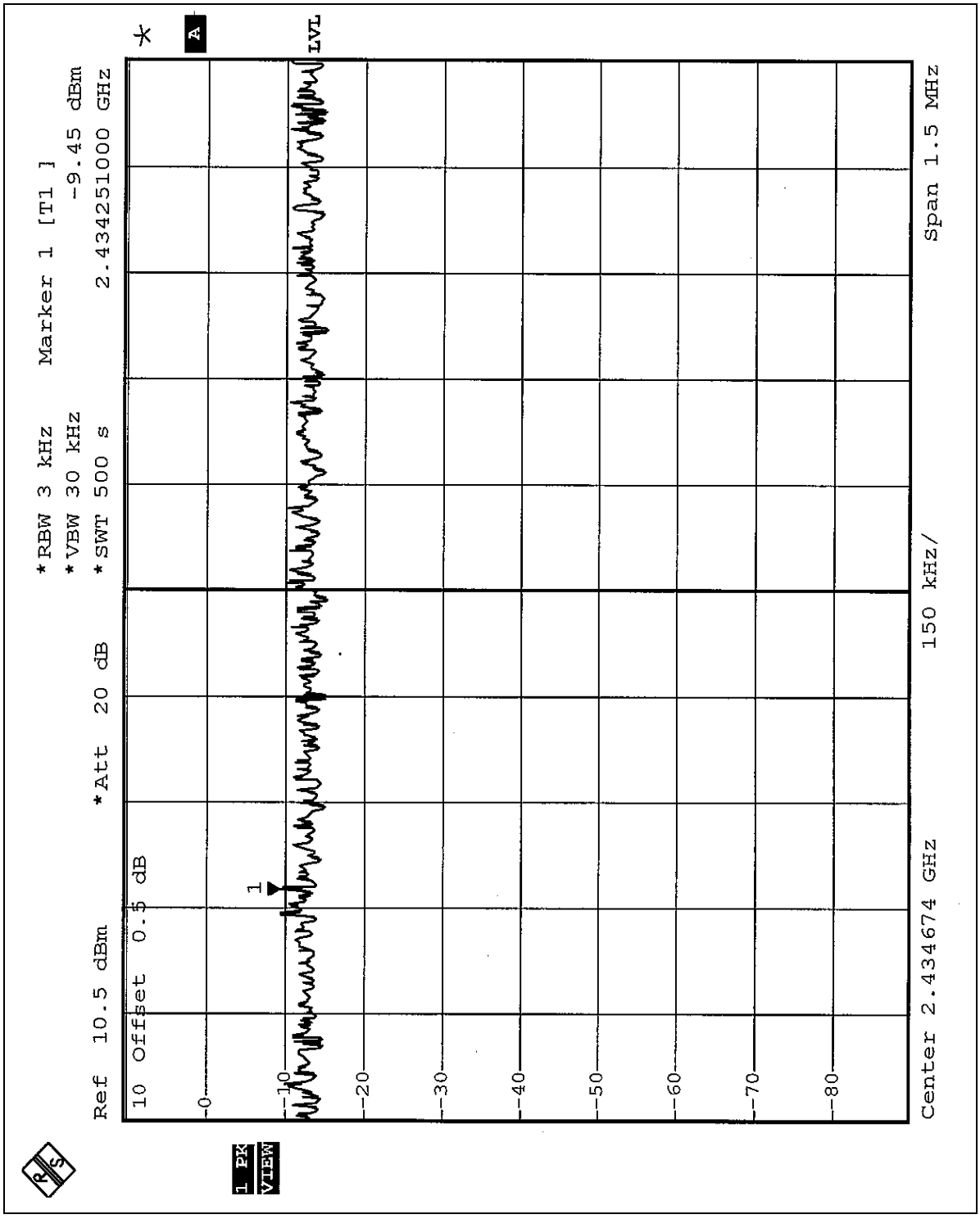
EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 65%RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-9.33	8	PASS
6	2437	-9.45	8	PASS
11	2462	-8.99	8	PASS

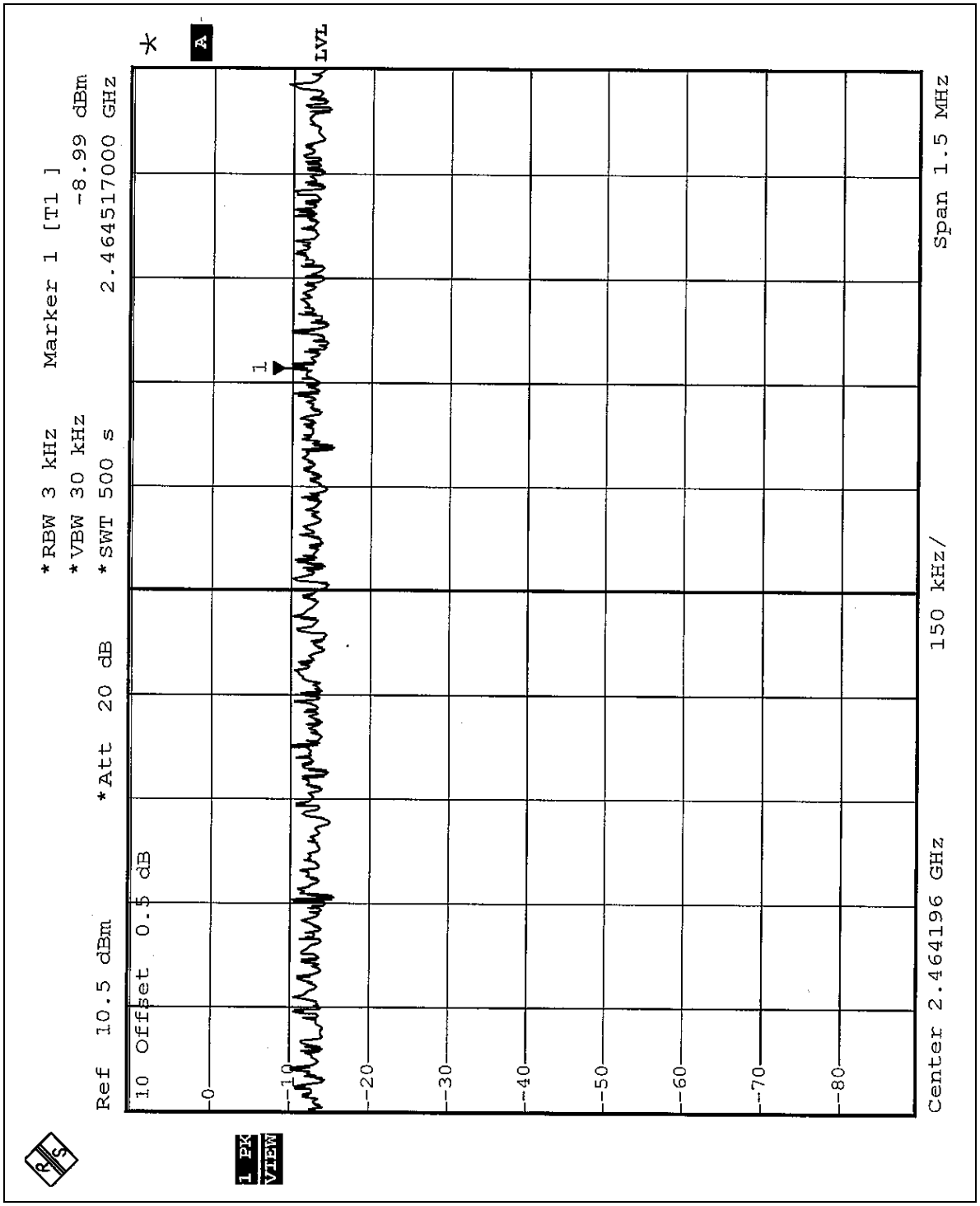
CH1


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-9.33 dBm
2.41411200 GHz
Center 2.41383 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW

CH6


Ref 10.5 dBm
10 Offset 0.5 dB
*Att 20 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-9.45 dBm
2.434251000 GHz
Center 2.434674 GHz
150 kHz/
Span 1.5 MHz
1 PK VIEW

CH11

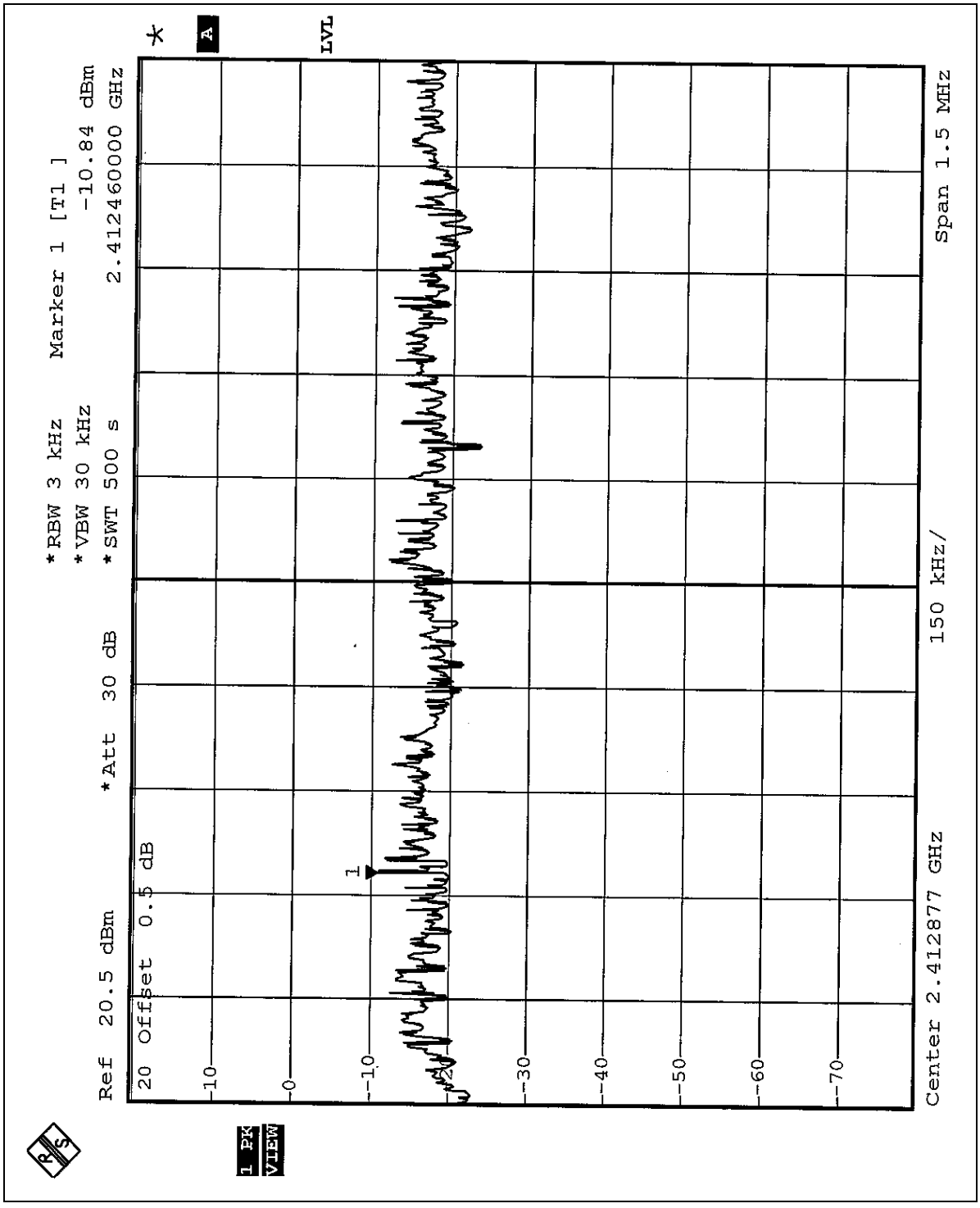

Marker 1 [T1]
-8.99 dBm
2.464517000 GHz
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
*Att 20 dB
Ref 10.5 dBm
10 Offset 0.5 dB
Center 2.464196 GHz
150 kHz/
Span 1.5 MHz
1 PK
VIEW

4.5.8 TEST RESULTS (B)

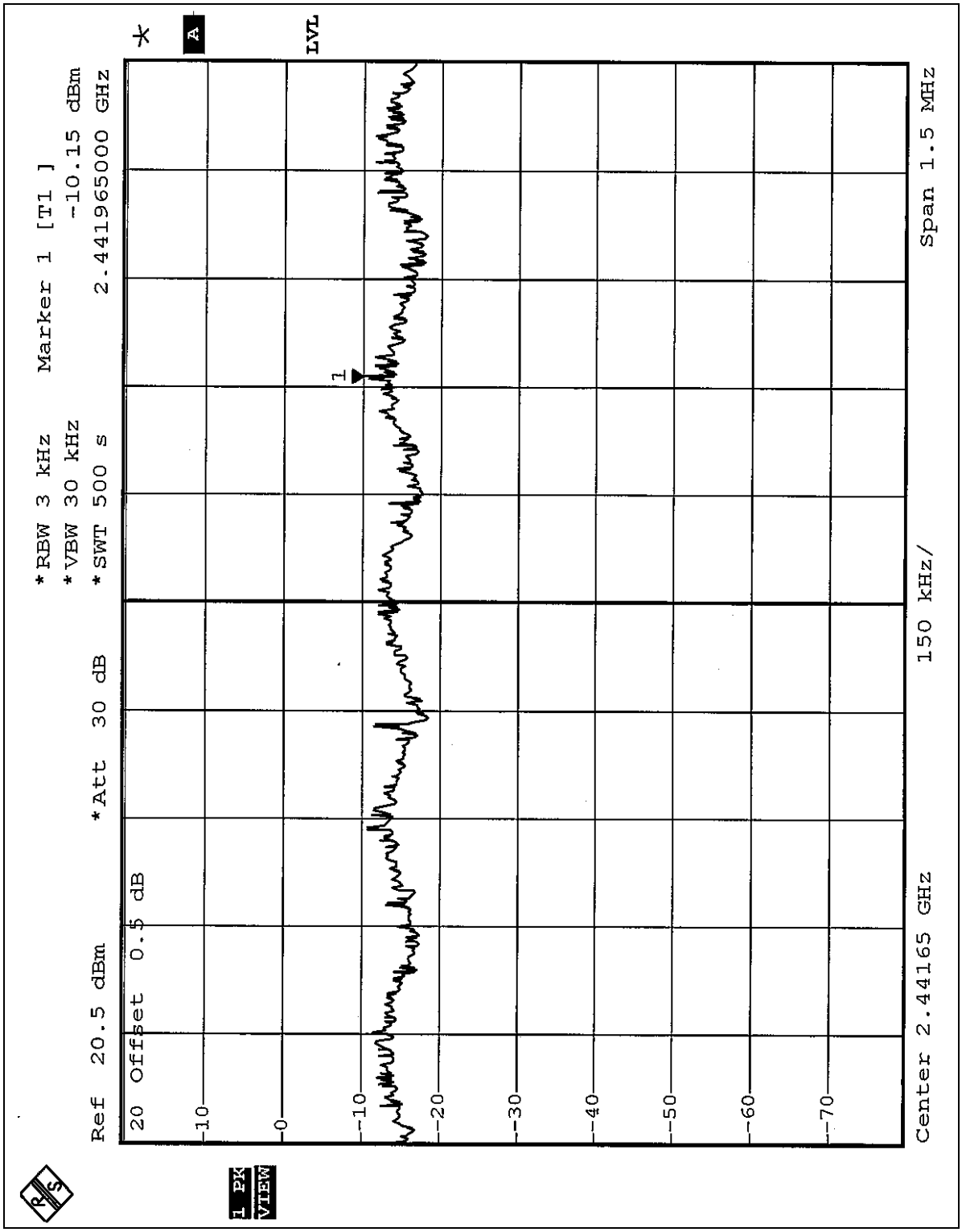
EUT	Wireless LAN Mini PCI Card	**MODEL**	WLL3014
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	24deg. C, 65%RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.84	8	PASS
6	2437	-10.15	8	PASS
11	2462	-10.56	8	PASS

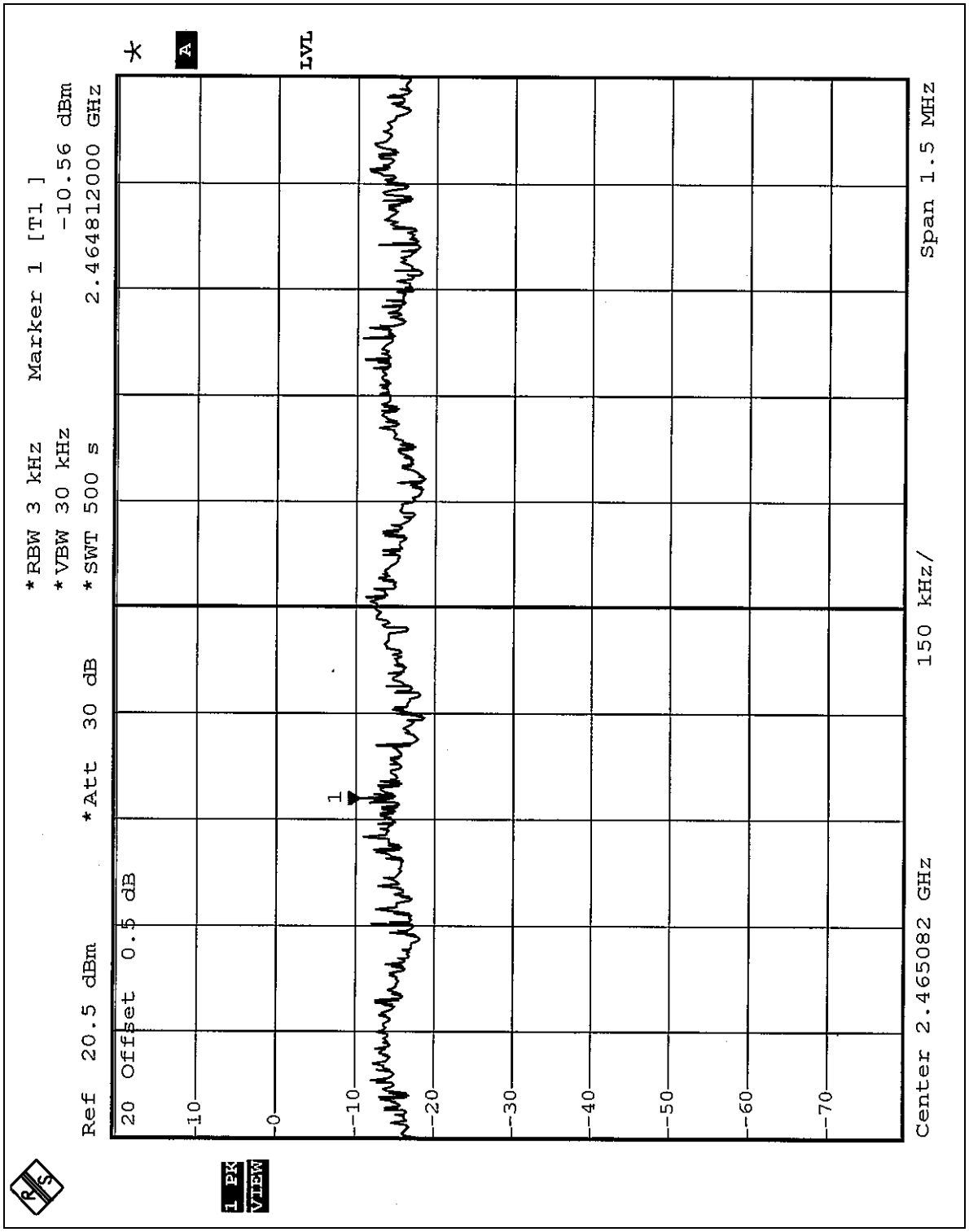
CH1


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.84 dBm
2.412460000 GHz
Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
Center 2.412877 GHz
150 kHz/
Span 1.5 MHz
1 PK
VIEW
LVL
A

CH6


Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.15 dBm
2.441965000 GHz
1 PK
VIEW
LVL
Center 2.44165 GHz
150 kHz/
Span 1.5 MHz

CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-10.56 dBm
2.464812000 GHz
Ref 20.5 dBm
20 Offset 0.5 dB
*Att 30 dB
Center 2.465082 GHz
150 kHz/
Span 1.5 MHz
1 PK
VIEW
A
LVL

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	Aug. 12, 2005

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 1MHz and 1kHz with suitable frequency span including 100 MHz 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 (A)

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).

Test Mode 1

NOTE 1: The band edge emission plot on the page 76 shows 58.49dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 104.74dBuV/m, so the maximum field strength in restrict band is 104.74-58.49=46.25dBuV/m which is under 54 dBuV/m limit.

NOTE 2: The band edge emission plot on the page 78 shows 55.15dB delta between carrier maximum power and local maximum emission in restrict band (2.4849GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.46dBuV/m, so the maximum field strength in restrict band is 105.46-55.15=50.13dBuV/m which is under 54 dBuV/m limit.

Test Mode 2

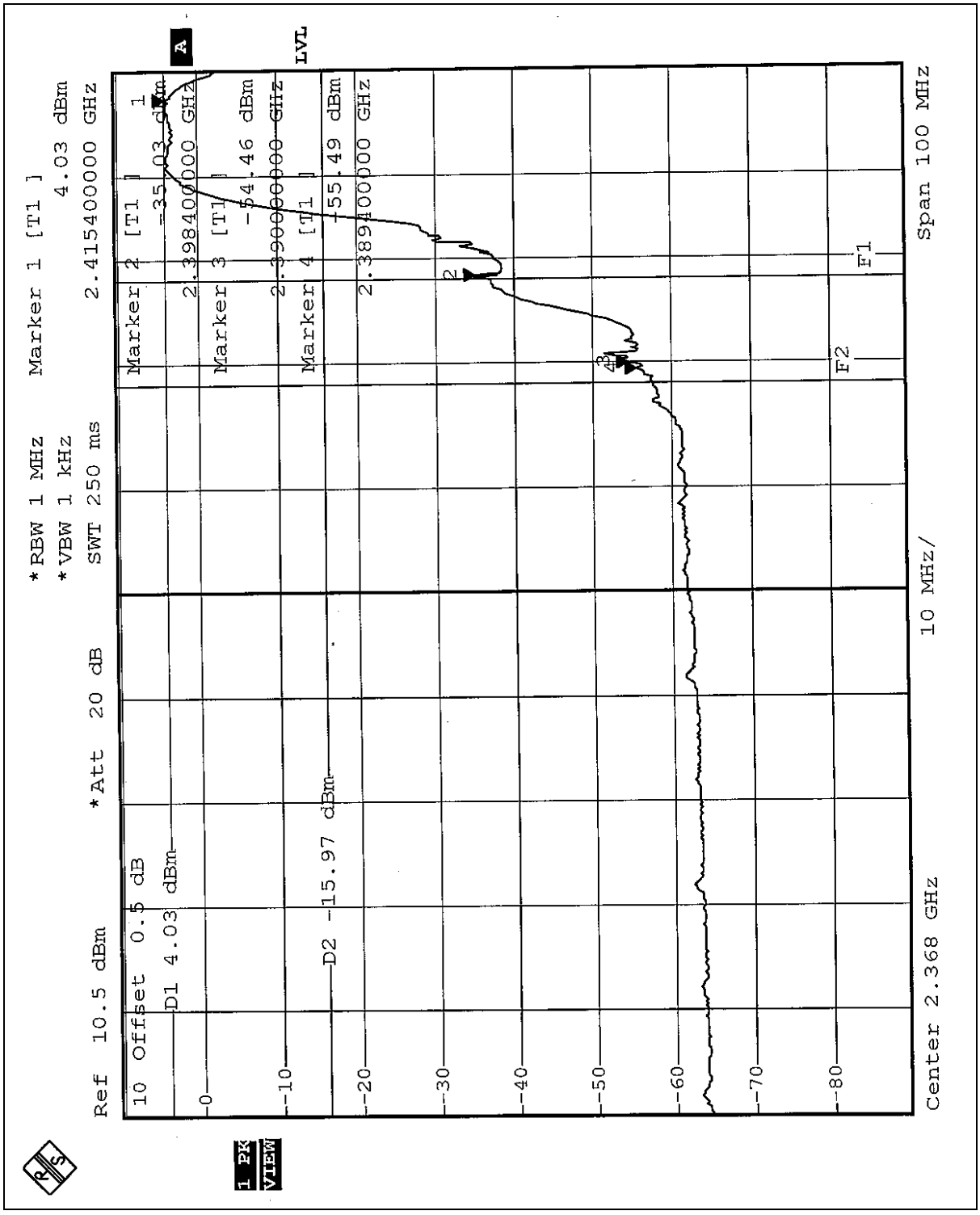
NOTE 1: The band edge emission plot on the page 76 shows 58.49dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.46dBuV/m, so the maximum field strength in restrict band is 103.46-58.49=48.31dBuV/m which is under 54 dBuV/m limit.

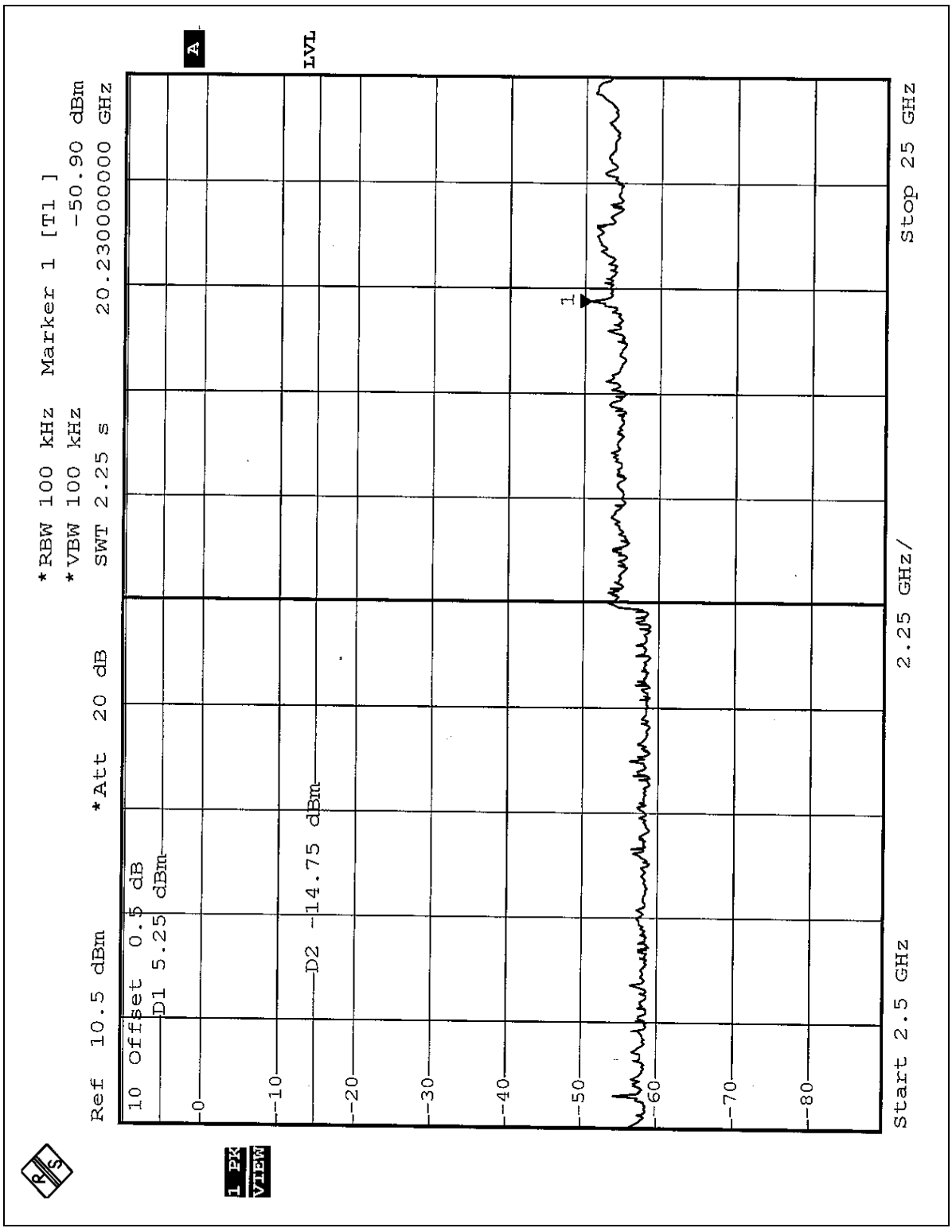
NOTE 2: The band edge emission plot on the page 78 shows 55.15dB delta between carrier maximum power and local maximum emission in restrict band (2.4849GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.98dBuV/m, so the maximum field strength in restrict band is 104.98-55.15=49.83dBuV/m which is under 54 dBuV/m limit.

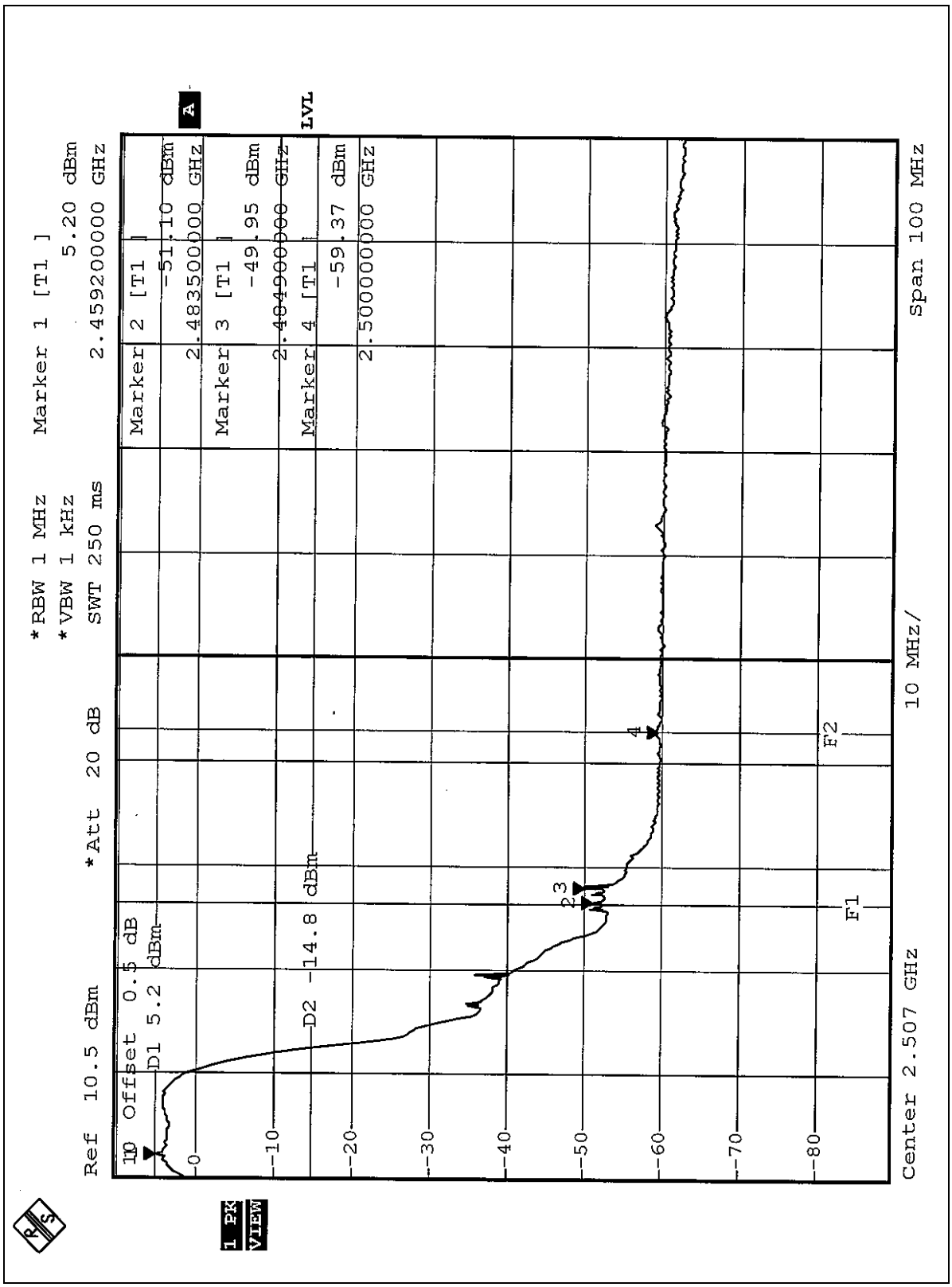
Test Mode 3

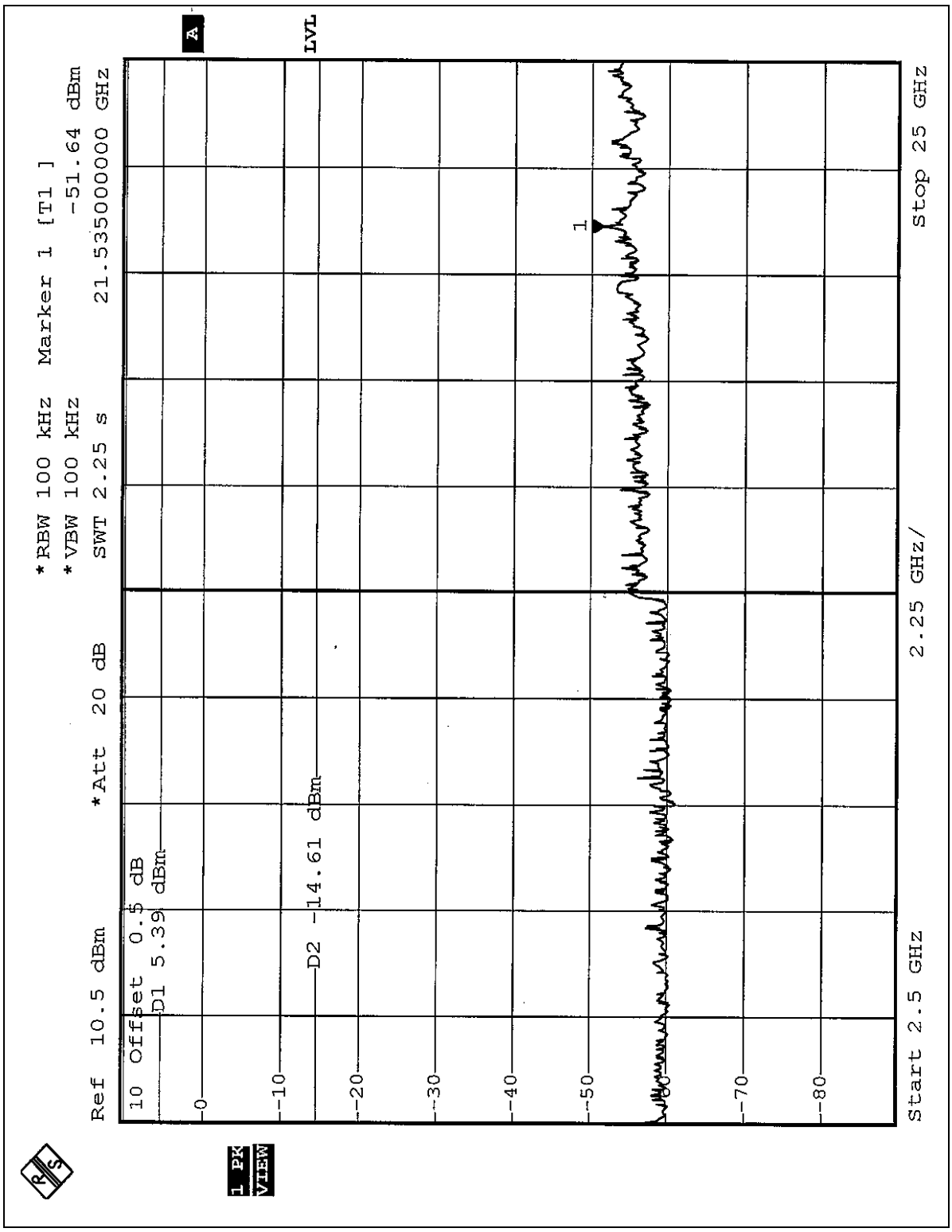
NOTE 1: The band edge emission plot on the page 76 shows 58.49dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.93dBuV/m, so the maximum field strength in restrict band is 105.93-58.49=47.44dBuV/m which is under 54 dBuV/m limit.

NOTE 2: The band edge emission plot on the page 78 shows 55.15dB delta between carrier maximum power and local maximum emission in restrict band (2.4849GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.53dBuV/m, so the maximum field strength in restrict band is 104.53-55.15=49.38dBuV/m which is under 54 dBuV/m limit.


*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
4.03 dBm
2.415400000 GHz
Marker 2 [T1]
-35.03 dBm
2.398400000 GHz
Marker 3 [T1]
-54.46 dBm
2.390000000 GHz
Marker 4 [T1]
-55.49 dBm
2.389400000 GHz
Ref 10.5 dBm
*Att 20 dB
10 Offset 0.5 dB
D1 4.03 dBm
D2 -15.97 dBm
Center 2.368 GHz
10 MHz/
Span 100 MHz
F1
F2
LVL
A
1 PK VIEW


A
LVL
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-50.90 dBm
20.230000000 GHz
Ref 10.5 dBm
*Att 20 dB
10 Offset 0.5 dB
D1 5.25 dBm
D2 -14.75 dBm
1 PK VIEW
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
0
-10
-20
-30
-40
-50
-60
-70
-80


*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
5.20 dBm
2.459200000 GHz
Marker 2 [T1]
-51.10 dBm
2.483500000 GHz
Marker 3 [T1]
-49.95 dBm
2.404900000 GHz
Marker 4 [T1]
-59.37 dBm
2.500000000 GHz
LVL
A
Ref 10.5 dBm
*Att 20 dB
10 Offset 0.5 dB
D1 5.2 dBm
D2 -14.8 dBm
1 PK VIEW
Center 2.507 GHz
10 MHz/
Span 100 MHz
F1
F2


Ref 10.5 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-51.64 dBm
21.535000000 GHz
10 Offset 0.5 dB
D1 5.39 dBm
D2 -14.61 dBm
1 PK VIEW
A
LVL
1
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
0
-10
-20
-30
-40
-50
-70
-80

4.6.7 TEST RESULTS (B)

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).

Test Mode 1

NOTE 1: The band edge emission plot on the page 82 shows 50.26dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 101.75dBuV/m, so the maximum field strength in restrict band is 101.75-50.26=51.49dBuV/m which is under 54 dBuV/m limit.

NOTE 2: The band edge emission plot on the page 84 shows 48.65dB delta between carrier maximum power and local maximum emission in restrict band (2.4840GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 100.99dBuV/m, so the maximum field strength in restrict band is 100.99-48.65=52.34dBuV/m which is under 54 dBuV/m limit.

Test Mode 2

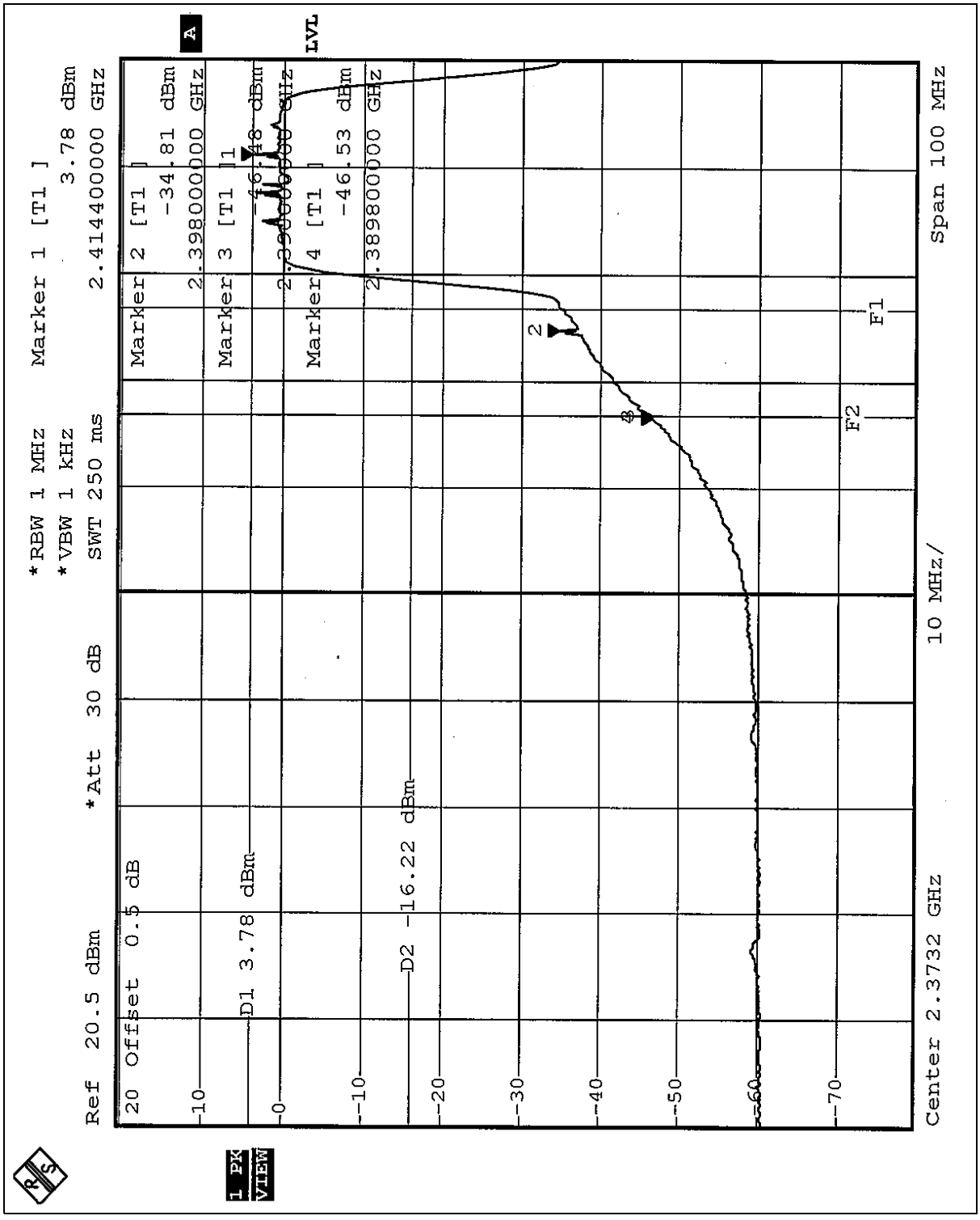
NOTE 1: The band edge emission plot on the page 82 shows 50.26dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 101.34dBuV/m, so the maximum field strength in restrict band is 101.34-50.26=51.08dBuV/m which is under 54 dBuV/m limit.

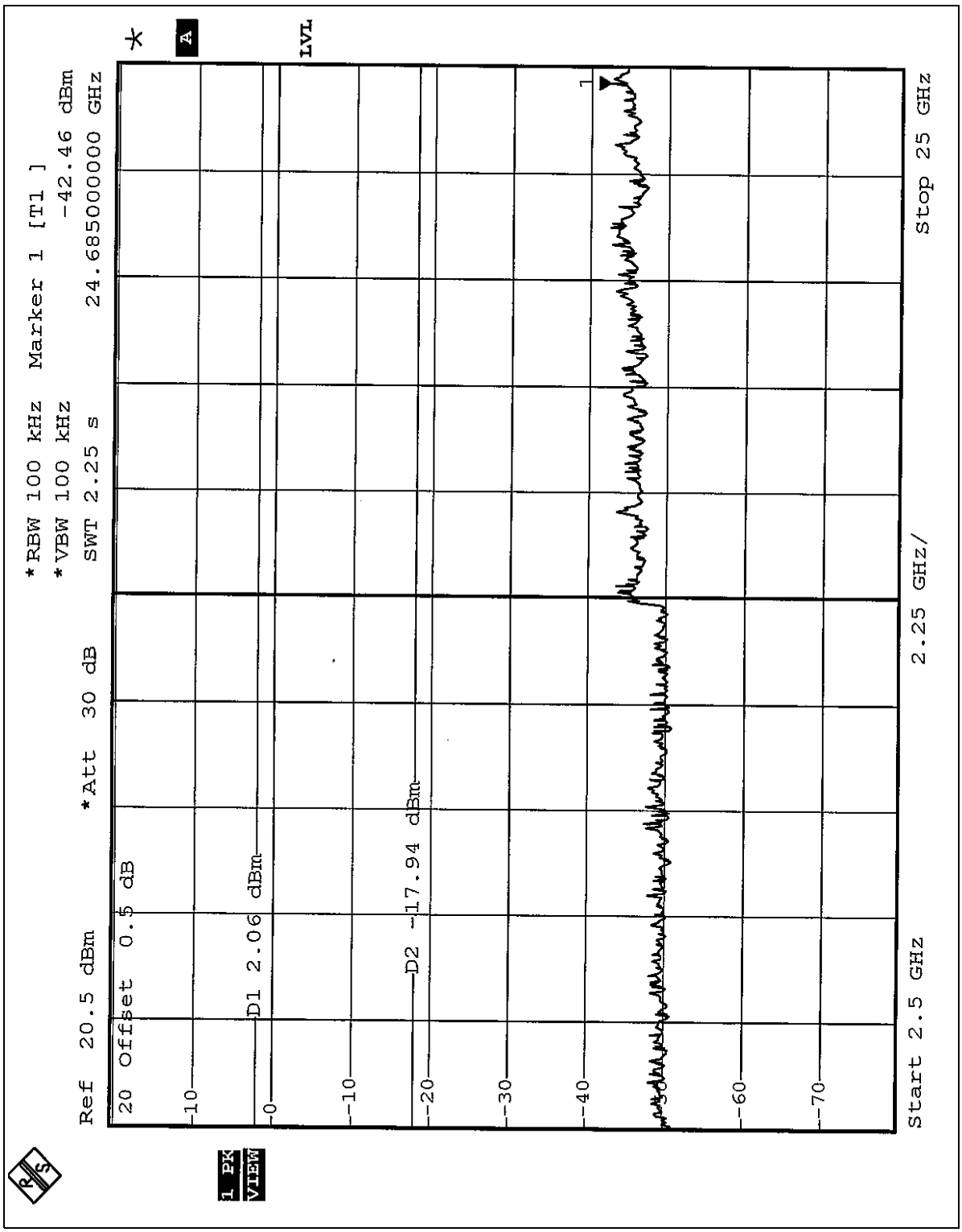
NOTE 2: The band edge emission plot on the page 84 shows 48.65dB delta between carrier maximum power and local maximum emission in restrict band (2.4840GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 101.37dBuV/m, so the maximum field strength in restrict band is 101.37-48.65=52.72dBuV/m which is under 54 dBuV/m limit.

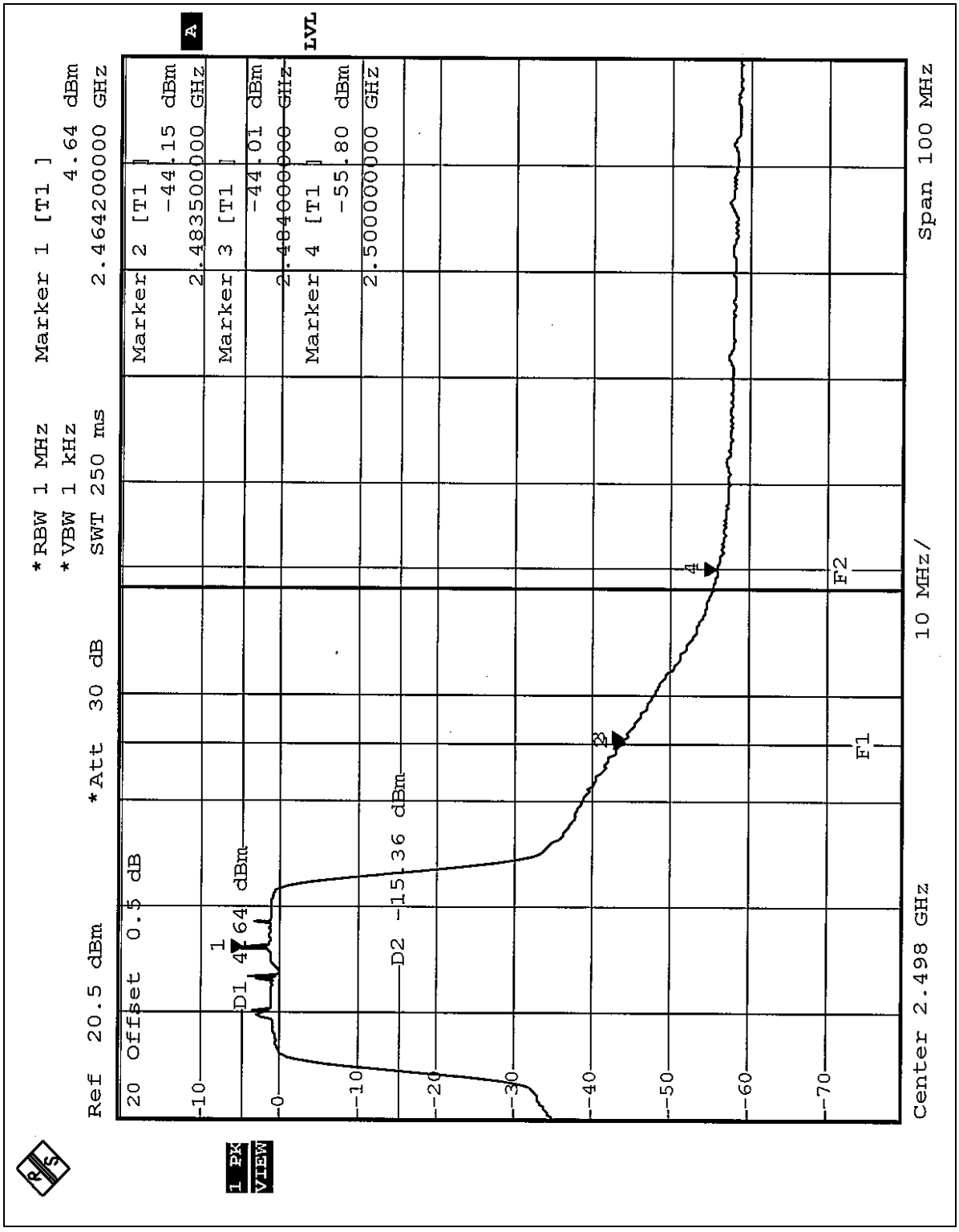
Test Mode 3

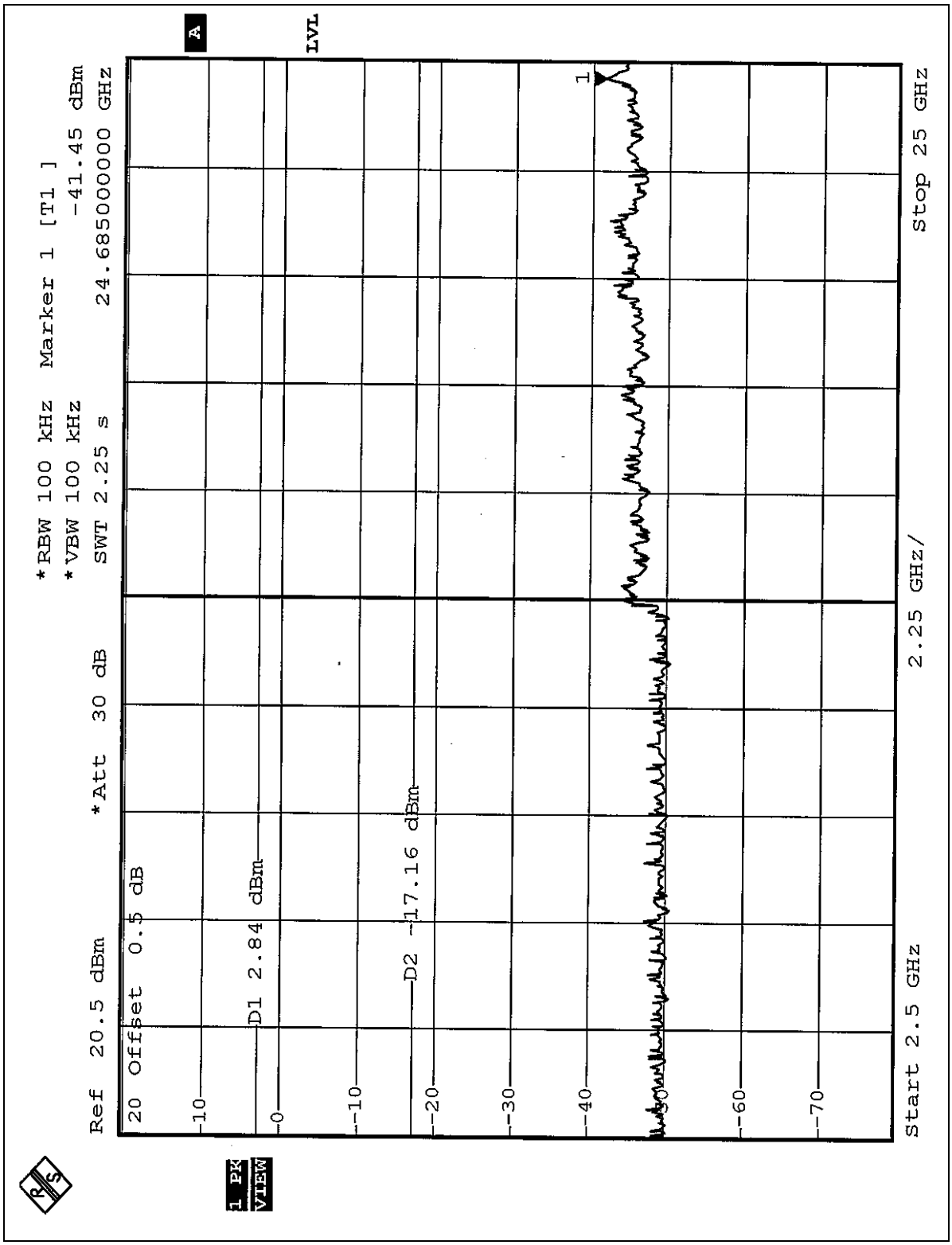
NOTE 1: The band edge emission plot on the page 82 shows 50.26dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 101.09dBuV/m, so the maximum field strength in restrict band is 101.09-50.26=50.83dBuV/m which is under 54 dBuV/m limit.

NOTE 2: The band edge emission plot on the page 84 shows 48.65dB delta between carrier maximum power and local maximum emission in restrict band (2.4840GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 101.65dBuV/m, so the maximum field strength in restrict band is 101.65-48.65=53.00dBuV/m which is under 54 dBuV/m limit.


*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
3.78 dBm
2.414400000 GHz
*Att 30 dB
Offset 0.5 dB
Ref 20.5 dBm
Marker 2 [T1]
-34.81 dBm
2.398000000 GHz
Marker 3 [T1]
-46.48 dBm
2.390000000 GHz
Marker 4 [T1]
-46.53 dBm
2.389800000 GHz
D1 3.78 dBm
D2 -16.22 dBm
LVL
A
1 PK
VIEW
F1
F2
Center 2.3732 GHz
10 MHz/
Span 100 MHz


*RBW 100 kHz
*VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-42.46 dBm
24.685000000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
D1 2.06 dBm
D2 -17.94 dBm
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
1 PK
VIEW
A
LVL


*RBW 1 MHz
*VBW 1 kHz
SWT 250 ms
Marker 1 [T1]
4.64 dBm
2.464200000 GHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 2 [T1]
-44.15 dBm
2.483500000 GHz
Marker 3 [T1]
-44.01 dBm
2.484000000 GHz
Marker 4 [T1]
-55.80 dBm
2.500000000 GHz
D1 4.64 dBm
D2 -15.36 dBm
F1
F2
Center 2.498 GHz
10 MHz/
Span 100 MHz
1 PK VIEW
LVL
A


RBW 100 kHz
VBW 100 kHz
SWT 2.25 s
Marker 1 [T1]
-41.45 dBm
24.685000000 GHz
Ref 20.5 dBm
Offset 0.5 dB
Att 30 dB
D1 2.84 dBm
D2 -17.16 dBm
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz
1 PK VIEW
A
LVL

4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

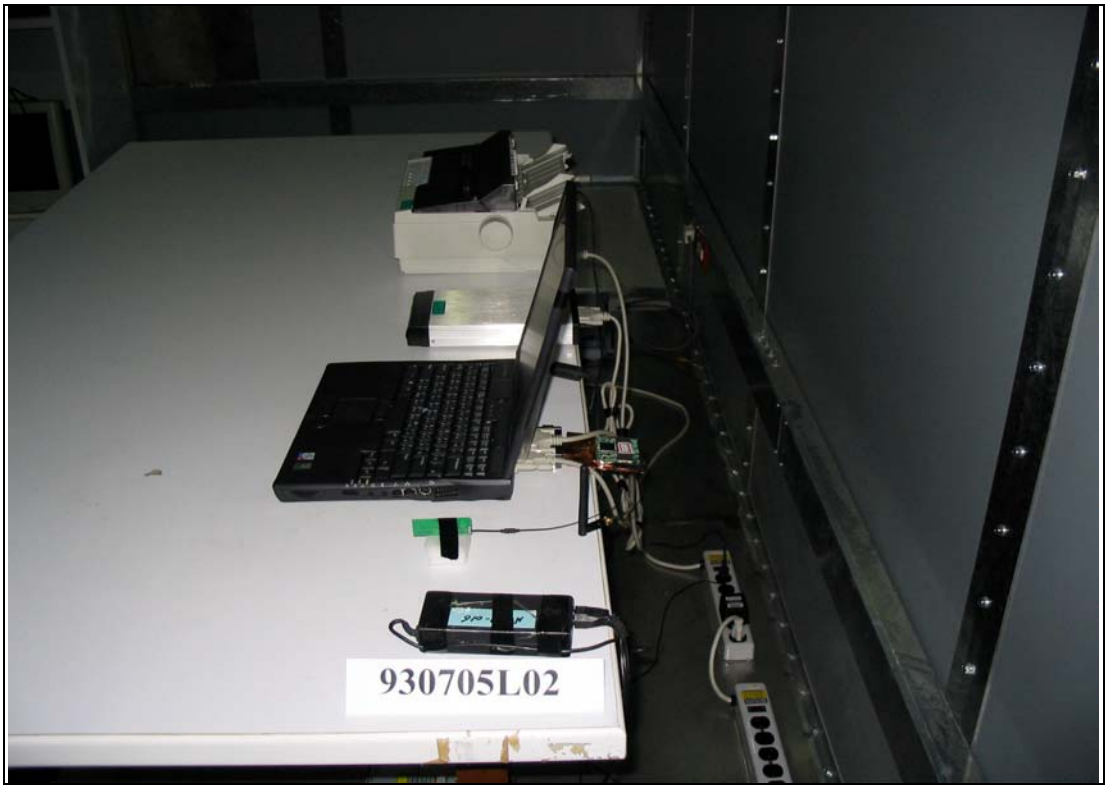
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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 antenna used in this product is Dipole antenna with UFL connector. The maximum Gain of this antenna is only 3.5dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST (Mode 1)

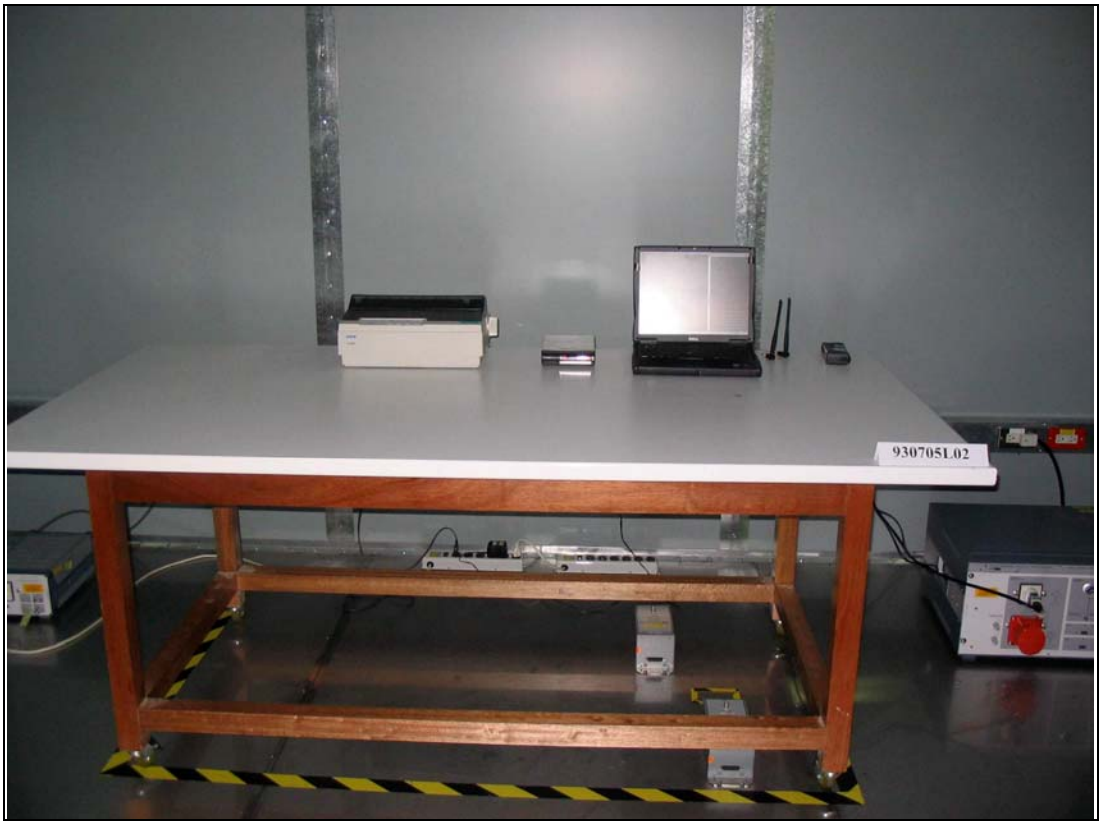


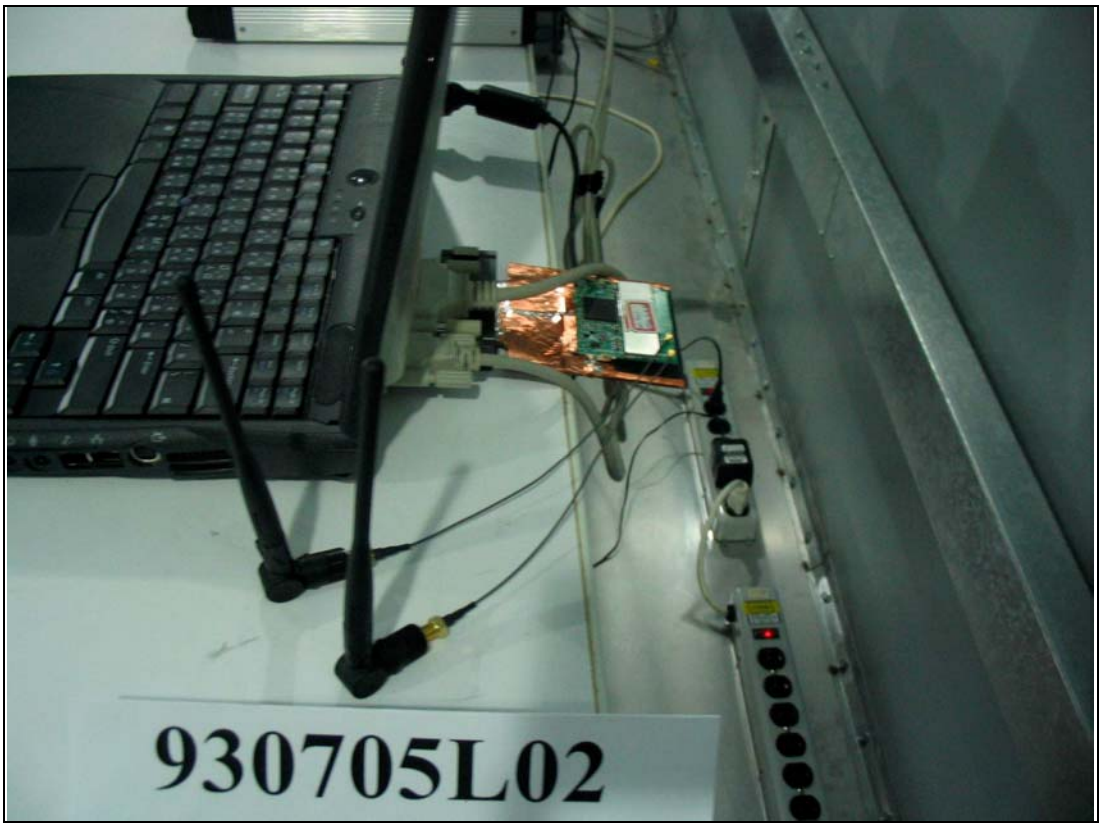
Mode 2


930705L02

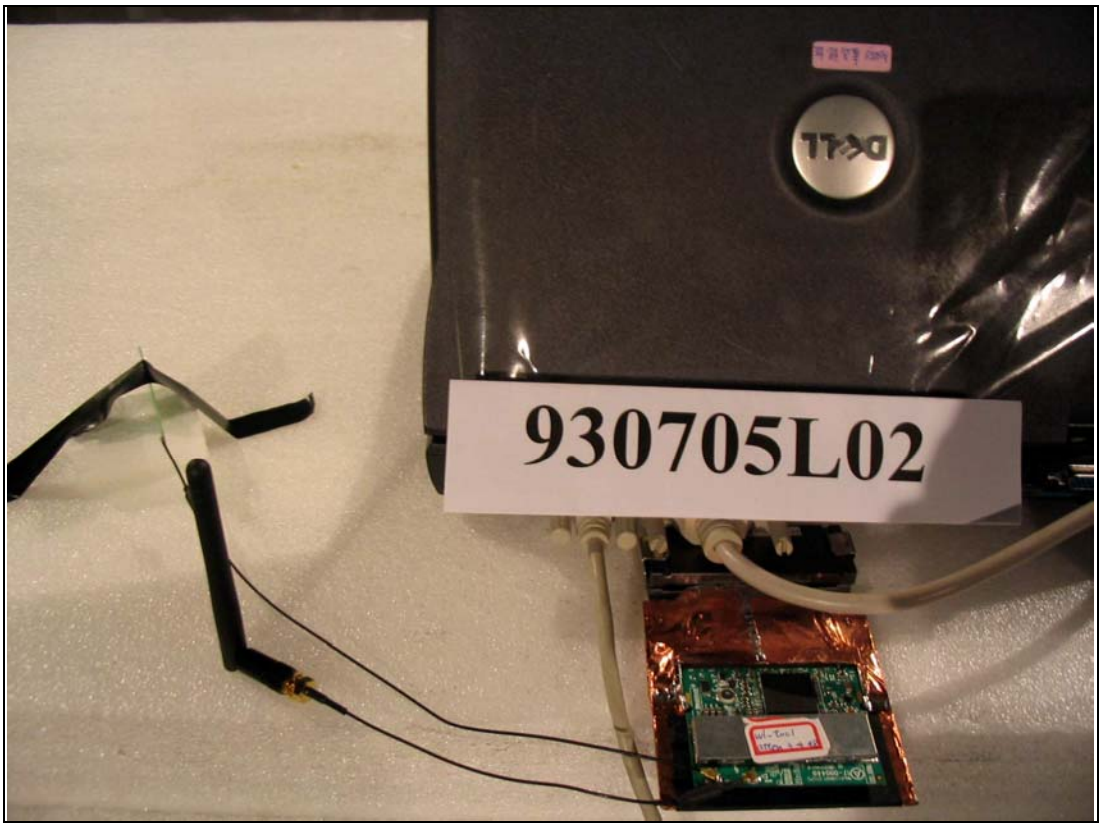

930705L02

Mode 3

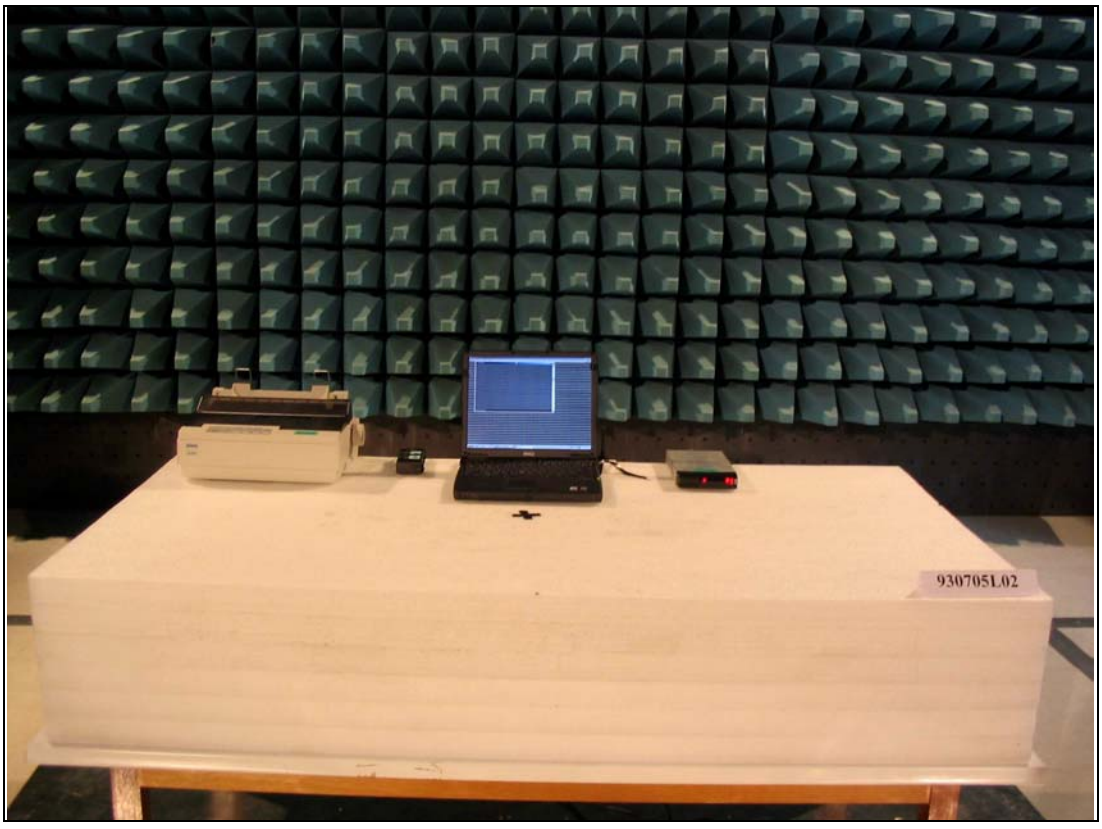


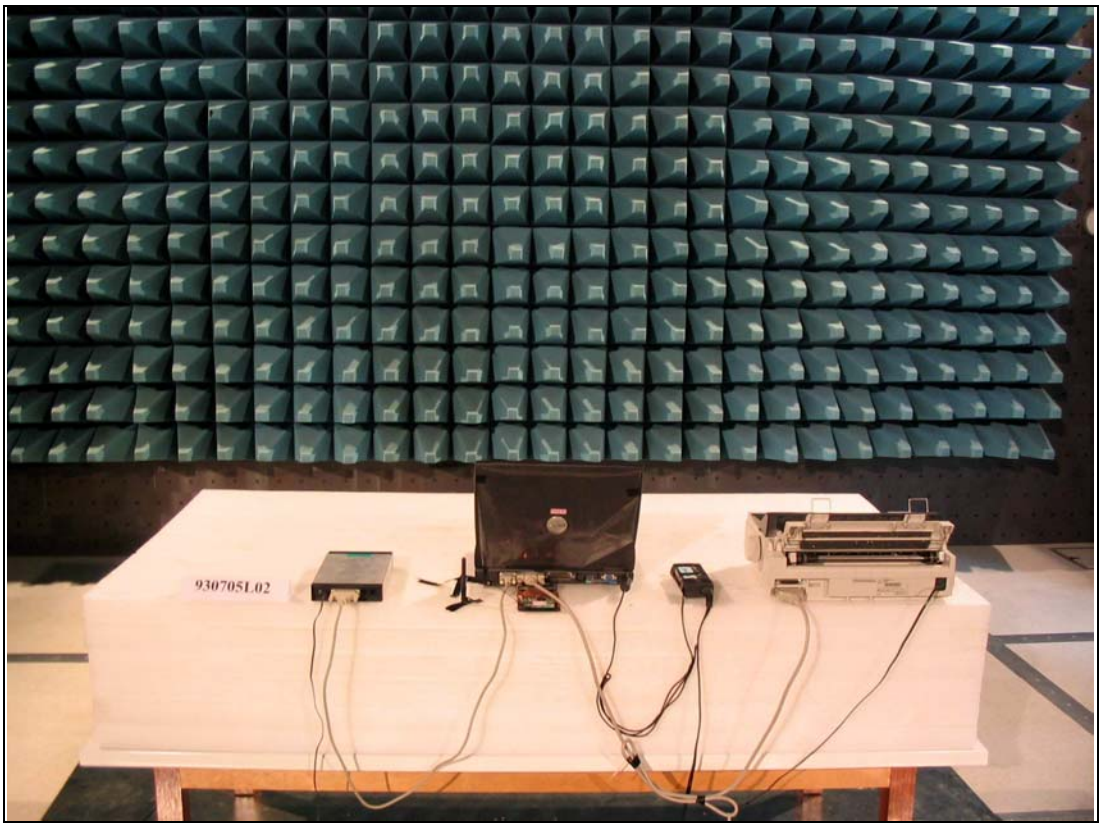

930705L02

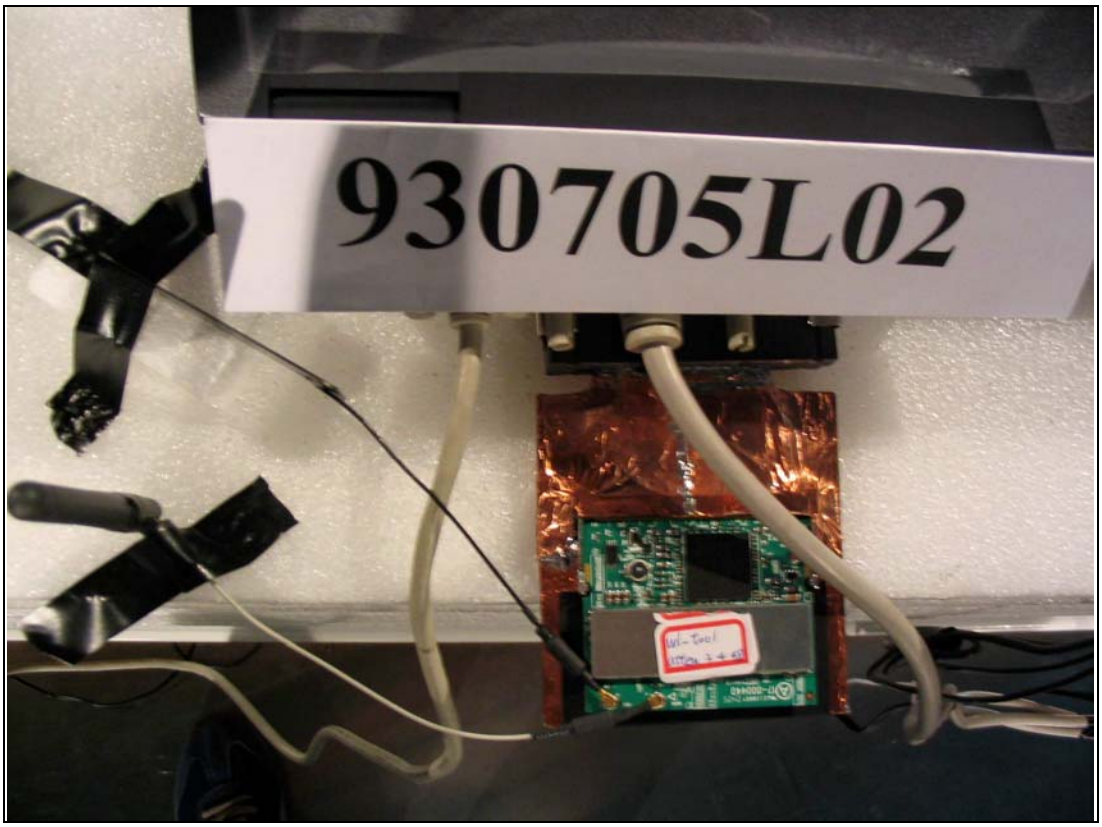
RADIATED EMISSION TEST (Mode 1)



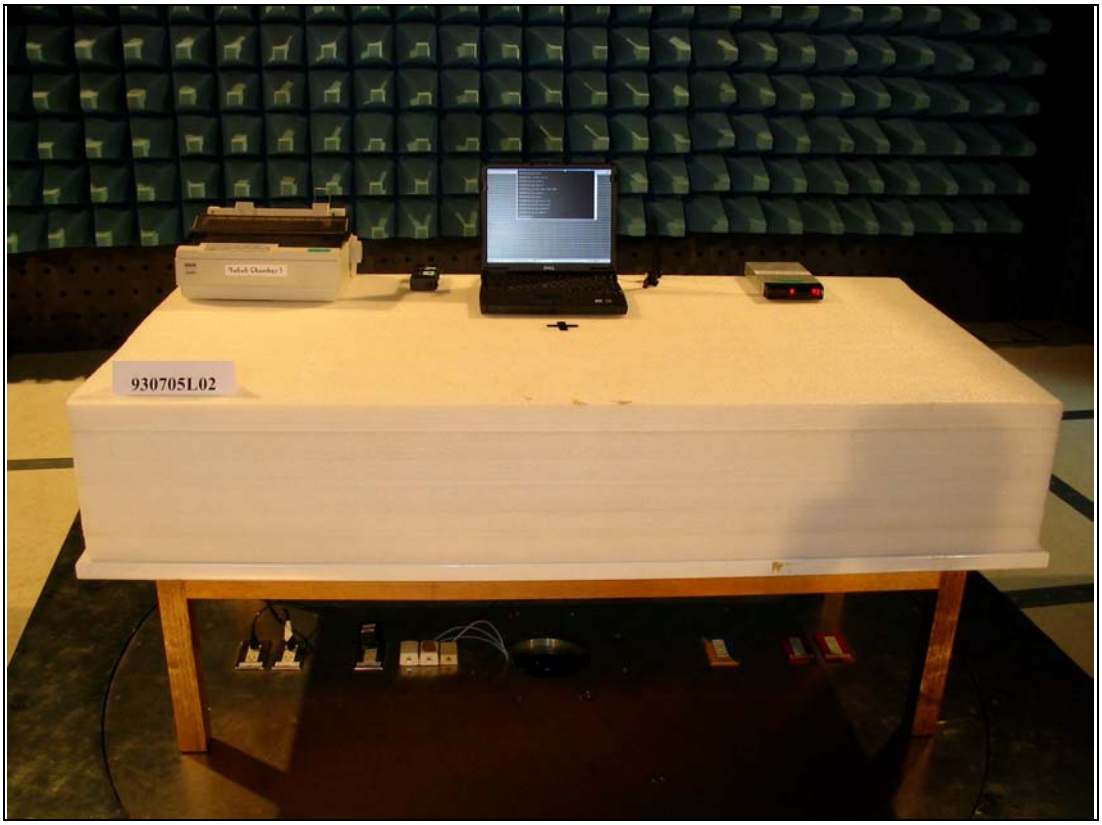
Mode 2

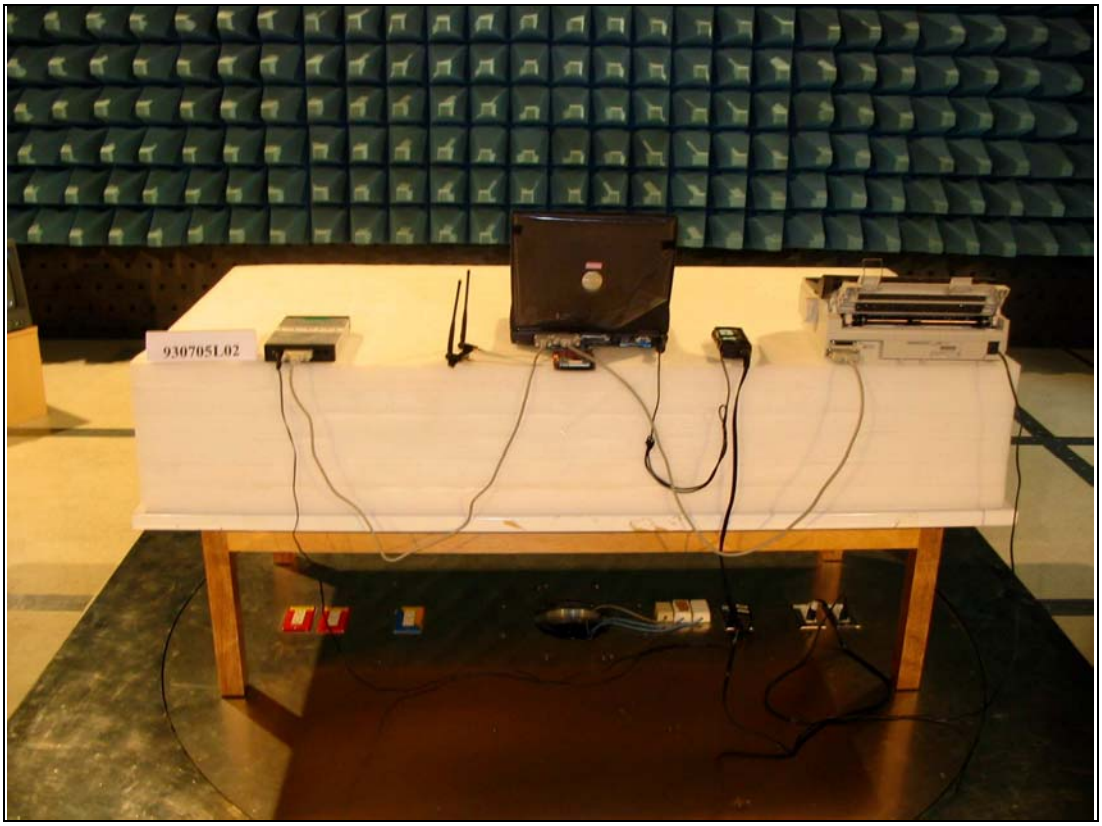


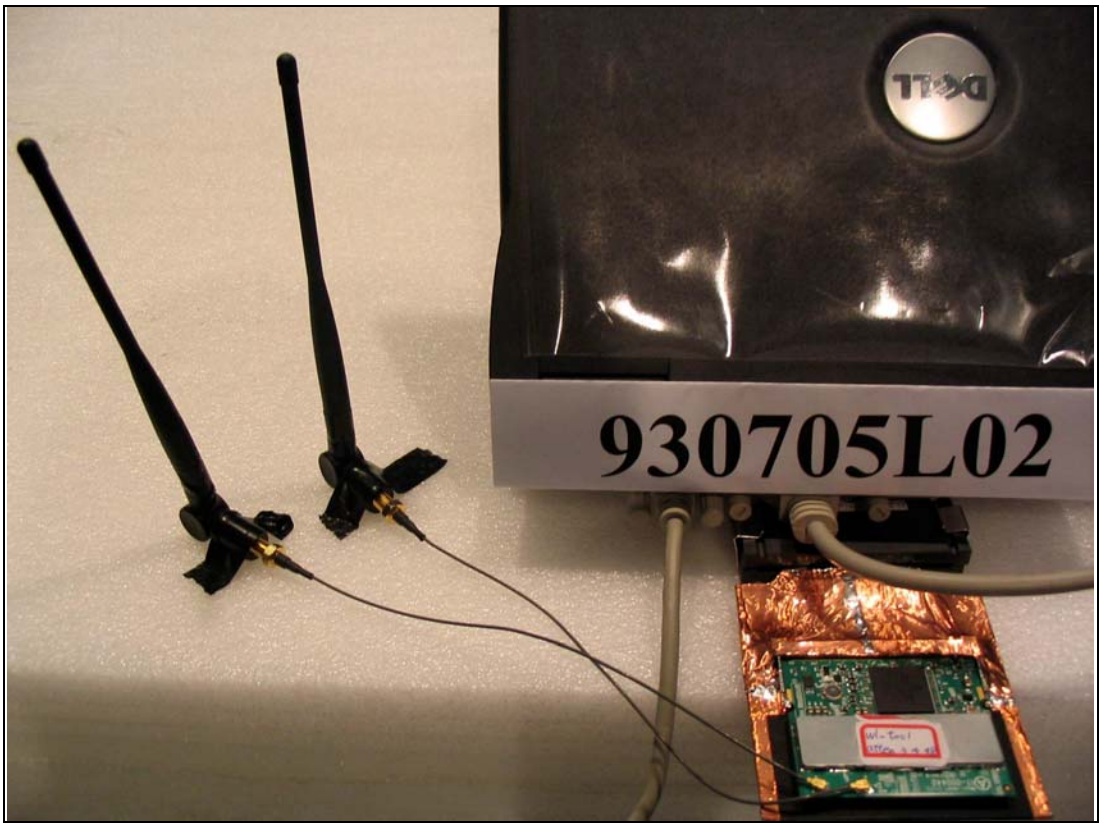

930705L02


930705L02

Mode 3






930705L02

6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom 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, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

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

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