



FCC TEST REPORT

REPORT NO.: RF921203R03E

MODEL NO.: WL-611GD

RECEIVED: July 30, 2004

TESTED: August 5, 2004

APPLICANT: Gemtek Technology Co., Ltd.

ADDRESS: No.1, Jen Ai Road, Hsinchu Industrial Park,
Hukou Hsinchu, Taiwan, R.O.C, 303

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei
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Table of Contents

1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS	5
2.1	MEASUREMENT UNCERTAINTY	5
3	GENERAL INFORMATION	6
3.1	GENERAL DESCRIPTION OF EUT	6
3.2	DESCRIPTION OF TEST MODES	7
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	7
3.4	DESCRIPTION OF SUPPORT UNITS	8
4	TEST TYPES AND RESULTS	9
4.1	CONDUCTED EMISSION MEASUREMENT	9
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	9
4.1.2	TEST INSTRUMENTS	9
4.1.3	TEST PROCEDURES	10
4.1.4	DEVIATION FROM TEST STANDARD	10
4.1.5	TEST SETUP	11
4.1.6	EUT OPERATING CONDITIONS	12
4.1.7	TEST RESULTS	13
4.2	RADIATED EMISSION MEASUREMENT	19
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	19
4.2.2	TEST INSTRUMENTS	20
4.2.3	TEST PROCEDURES	21
4.2.4	DEVIATION FROM TEST STANDARD	21
4.2.5	TEST SETUP	22
4.2.6	EUT OPERATING CONDITIONS	22
4.2.7	TEST RESULTS	23
4.2.8	TEST RESULTS (A)	24
4.2.9	TEST RESULTS (B)	27
4.3	6dB BANDWIDTH MEASUREMENT	30
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	30
4.3.2	TEST INSTRUMENTS	30
4.3.3	TEST PROCEDURE	31
4.3.4	DEVIATION FROM TEST STANDARD	31
4.3.5	TEST SETUP	31
4.3.6	EUT OPERATING CONDITIONS	31
4.3.7	TEST RESULTS (A)	32



4.3.8	TEST RESULTS (B).....	36
4.4	MAXIMUM PEAK OUTPUT POWER	40
4.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	40
4.4.2	TEST INSTRUMENTS	40
4.4.3	TEST PROCEDURES.....	41
4.4.4	DEVIATION FROM TEST STANDARD	41
4.4.5	TEST SETUP	41
4.4.6	EUT OPERATING CONDITIONS.....	41
4.4.7	TEST RESULTS (A)	42
4.4.8	TEST RESULTS (B).....	43
4.5	POWER SPECTRAL DENSITY MEASUREMENT	44
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	44
4.5.2	TEST INSTRUMENTS	44
4.5.3	TEST PROCEDURE	45
4.5.4	DEVIATION FROM TEST STANDARD	45
4.5.5	TEST SETUP	45
4.5.6	EUT OPERATING CONDITIONS.....	45
4.5.7	TEST RESULTS (A)	46
4.5.8	TEST RESULTS (B).....	50
4.6	BAND EDGES MEASUREMENT	54
4.6.1	LIMITS OF BAND EDGES MEASUREMENT	54
4.6.2	TEST INSTRUMENTS	54
4.6.3	TEST PROCEDURE	54
4.6.4	DEVIATION FROM TEST STANDARD	54
4.6.5	EUT OPERATING CONDITION	54
4.6.6	TEST RESULTS (A)	55
4.6.7	TEST RESULTS (B).....	60
4.7	ANTENNA REQUIREMENT	65
4.7.1	STANDARD APPLICABLE	65
4.7.2	ANTENNA CONNECTED CONSTRUCTION.....	65
5	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	66
6	INFORMATION ON THE TESTING LABORATORIES	68



1 CERTIFICATION

PRODUCT : Dell Wireless 1350 WLAN PC Card
MODEL NO. : WL-611GD
BRAND NAME : Dell
APPLICANT : Gemtek Technology Co., Ltd.
TESTED : August 5, 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 : Stacy Hsueh, **DATE:** August 06, 2004
(Stacy Hsueh)

TECHNICAL
ACCEPTANCE : Gary Chang, **DATE:** August 06, 2004
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang, **DATE:** August 06, 2004
(Cody Chang / Supervisor)



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 -10.21dB at 0.166MHz
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 -1.28dB at 7311.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

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	Dell Wireless 1350 WLAN PC Card
MODEL NO.	WL-611GD
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	54/48/36/24/18/12/11/9/6/5.5/2/1/Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM CONDUCTED OUTPUT POWER	16.10dBm
ANTENNA TYPE	Printed dipole antenna with 2.2dBi antenna gain
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permission change. The different compared with original design is antenna gain, the antenna gain in this report is 2.2dBi.
2. Fully compatible with the 802.11g standard to provide a wireless data rate of up to 54Mbps.
3. The EUT complies with IEEE 802.11g standards, and backward compatible with IEEE 802.11b products.
4. The above EUT information was declared by the 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 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, the worst case, was chosen for final test.
2. Above 1GHz, the channel 1, 6, and 11 were tested individually.
3. From our experience and technical viewpoint, we have chosen data rates-11Mbps with CCK technique and 6Mbps with OFDM technique-as the worst cases for the test among other data rates.
4. Two test results were presented in the following sections, the test result A was for CCK technique, the test result B was for OFDM technique.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an Dell Wireless 1350 WLAN PC 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 test items 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

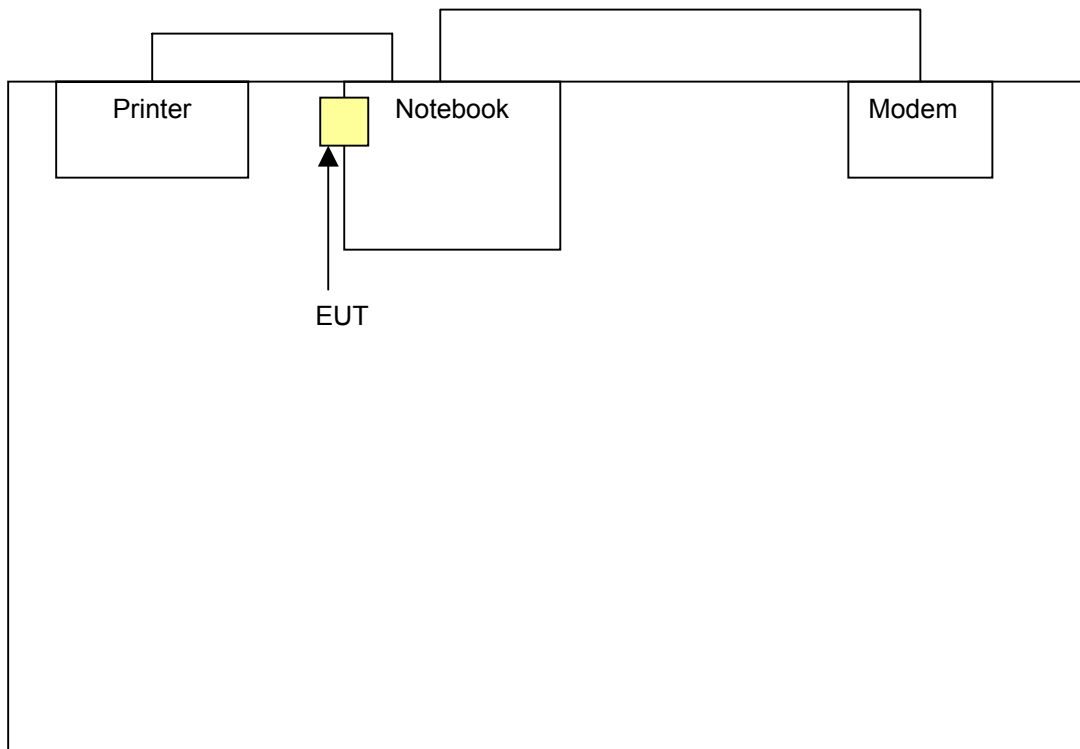
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS
2	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved

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

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

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	66 to 56	56 to 46
0.5-5	56	46
5-30	60	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.



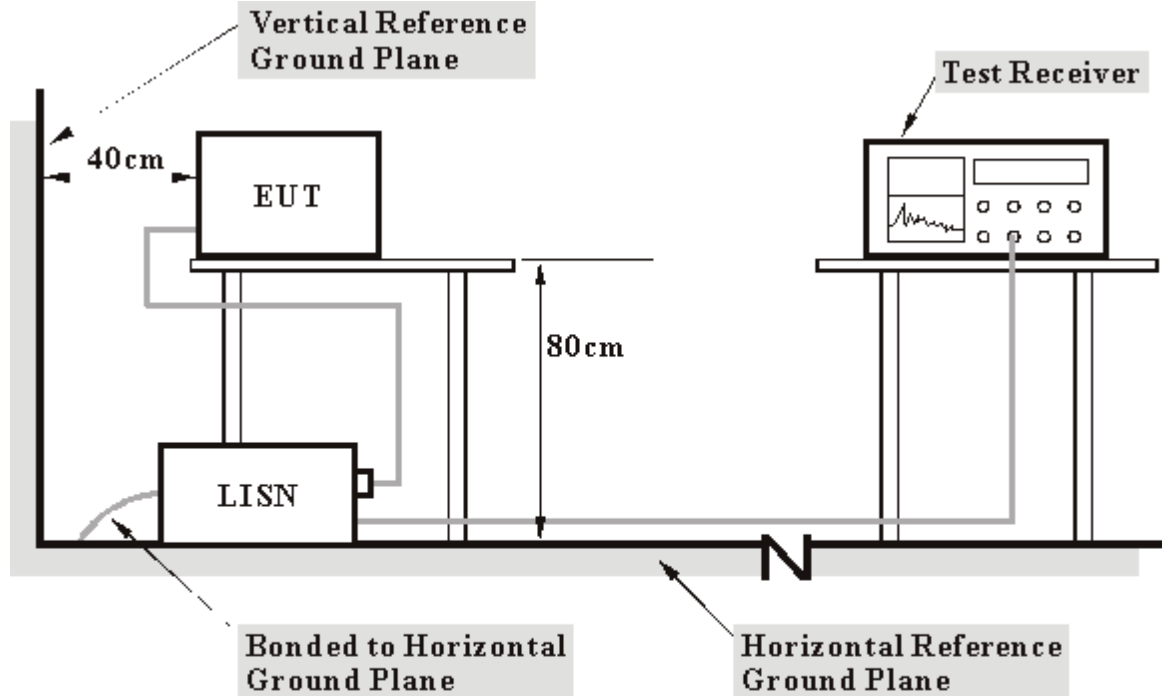
4.1.3 TEST PROCEDURES

- 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 150 kHz to 30 MHz was searched. Emission levels under limit-20dB could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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



4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to a computer system placed on a testing table.
- b. The computer system ran a test program (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. Steps c-e are repeated.

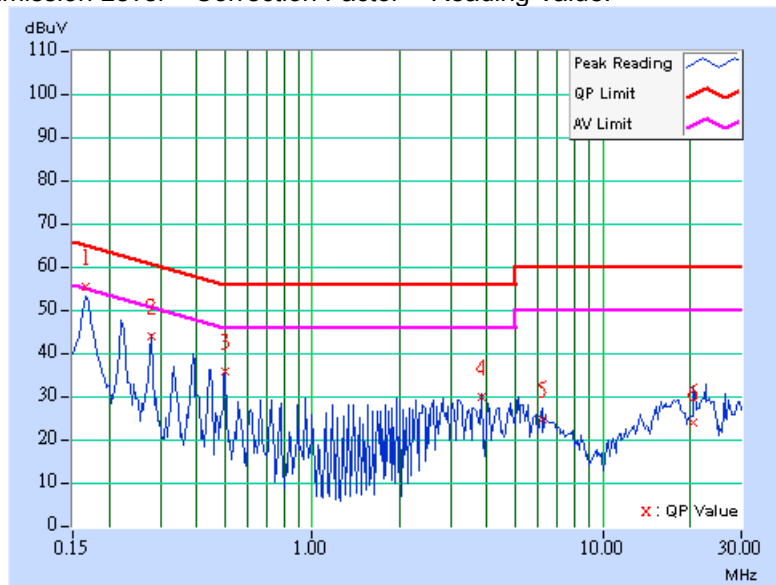


4.1.7 TEST RESULTS

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.06	54.91	-	54.97	-	65.18	55.18	-10.21	-
2	0.279	0.06	43.39	-	43.45	-	60.85	50.85	-17.40	-
3	0.502	0.08	35.14	-	35.22	-	56.00	46.00	-20.78	-
4	3.840	0.22	29.24	-	29.46	-	56.00	46.00	-26.54	-
5	6.177	0.29	24.25	-	24.54	-	60.00	50.00	-35.46	-
6	20.586	0.67	23.26	-	23.93	-	60.00	50.00	-36.07	-

- 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.

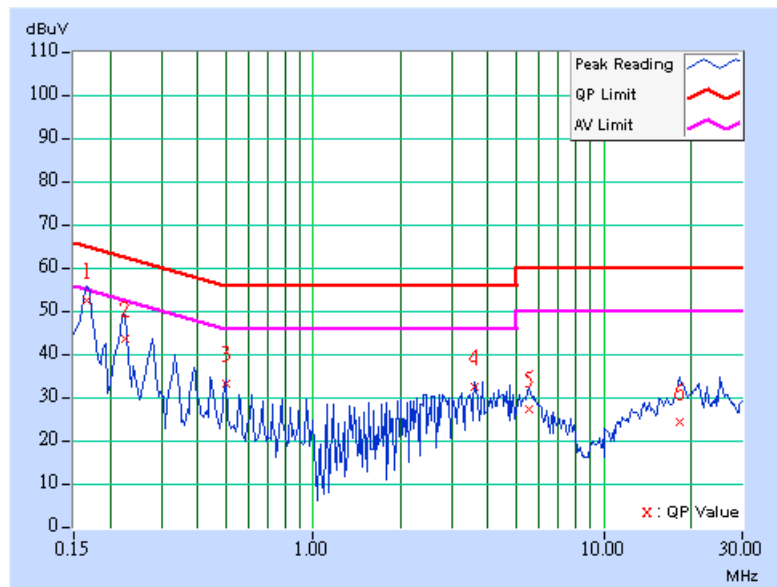




EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.05	51.95	-	52.00	-	65.18	55.18	-13.18	-
2	0.224	0.05	43.06	-	43.11	-	62.66	52.66	-19.55	-
3	0.502	0.07	32.92	-	32.99	-	56.00	46.00	-23.01	-
4	3.613	0.20	32.10	-	32.30	-	56.00	46.00	-23.70	-
5	5.506	0.25	26.73	-	26.98	-	60.00	50.00	-33.02	-
6	18.367	0.50	23.86	-	24.36	-	60.00	50.00	-35.64	-

- 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.

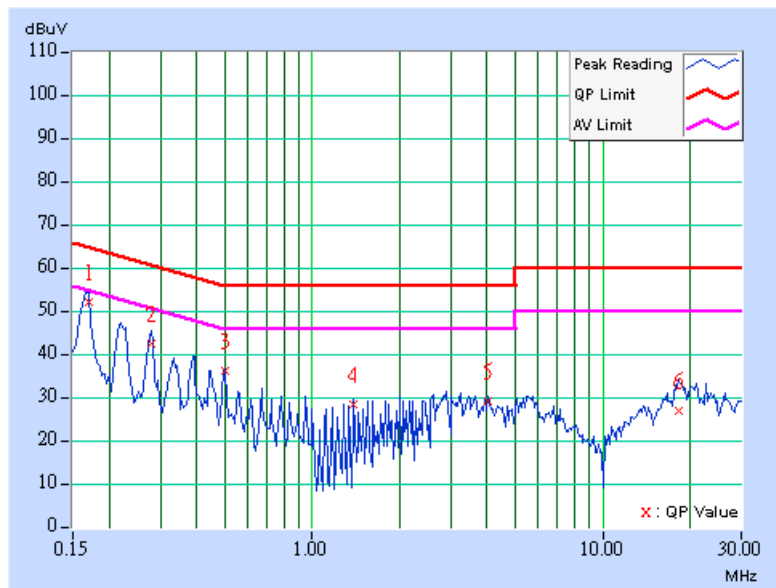




EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.06	51.65	-	51.71	-	64.98	54.98	-13.28	-
2	0.279	0.06	42.16	-	42.22	-	60.85	50.85	-18.63	-
3	0.502	0.08	35.62	-	35.70	-	56.00	46.00	-20.30	-
4	1.391	0.17	27.84	-	28.01	-	56.00	46.00	-27.99	-
5	4.008	0.22	28.77	-	28.99	-	56.00	46.00	-27.01	-
6	18.277	0.61	26.37	-	26.98	-	60.00	50.00	-33.02	-

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

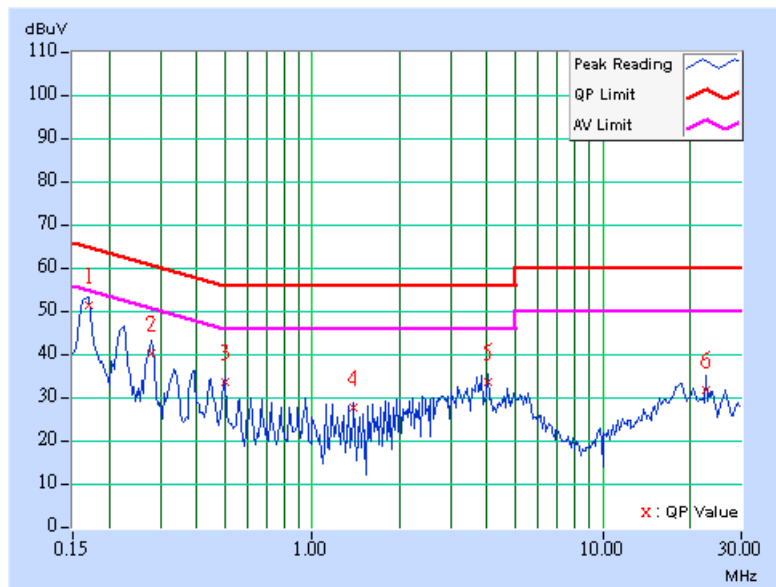




EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.05	50.85	-	50.90	-	64.98	54.98	-14.08	-
2	0.279	0.05	39.87	-	39.92	-	60.85	50.85	-20.93	-
3	0.502	0.07	33.17	-	33.24	-	56.00	46.00	-22.76	-
4	1.391	0.17	27.21	-	27.38	-	56.00	46.00	-28.62	-
5	4.008	0.21	33.14	-	33.35	-	56.00	46.00	-22.65	-
6	22.570	0.62	31.41	-	32.03	-	60.00	50.00	-27.97	-

- 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.

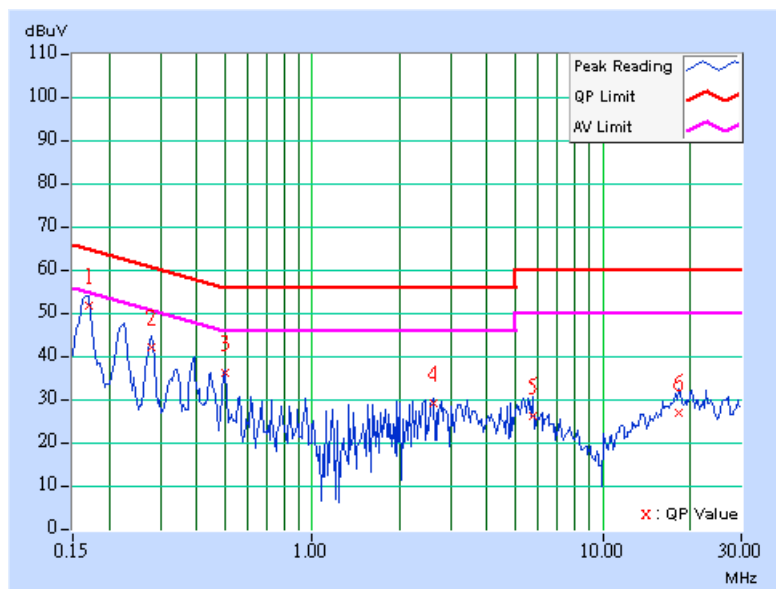




EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.06	51.23	-	51.29	-	64.98	54.98	-13.70	-
2	0.279	0.06	41.65	-	41.71	-	60.85	50.85	-19.14	-
3	0.502	0.08	35.71	-	35.79	-	56.00	46.00	-20.21	-
4	2.617	0.19	28.71	-	28.90	-	56.00	46.00	-27.10	-
5	5.735	0.28	25.70	-	25.98	-	60.00	50.00	-34.02	-
6	18.176	0.61	26.57	-	27.18	-	60.00	50.00	-32.82	-

- 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.

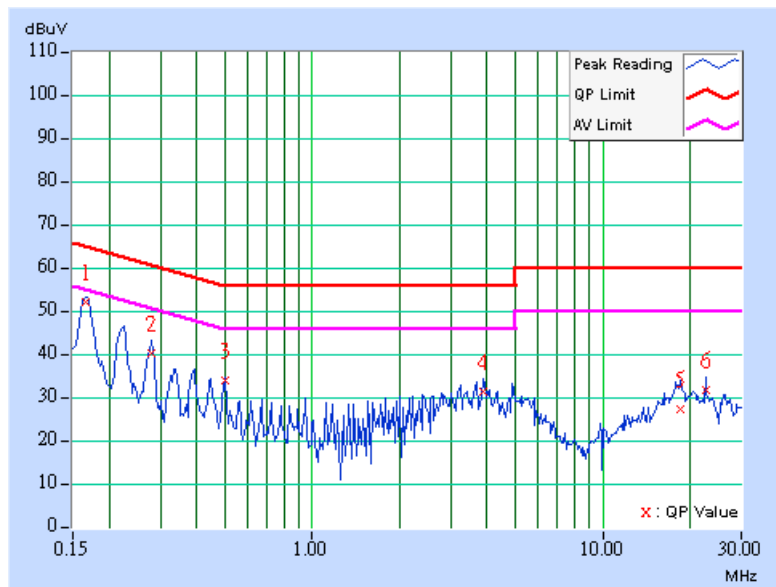




EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Netural (N)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60%RH, 991 hPa	TESTED BY: Martine Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.05	51.50	-	51.55	-	65.18	55.18	-13.63	-
2	0.279	0.05	39.91	-	39.96	-	60.85	50.85	-20.89	-
3	0.502	0.07	33.27	-	33.34	-	56.00	46.00	-22.66	-
4	3.898	0.21	30.95	-	31.16	-	56.00	46.00	-24.84	-
5	18.492	0.50	26.63	-	27.13	-	60.00	50.00	-32.87	-
6	22.570	0.62	31.20	-	31.82	-	60.00	50.00	-28.18	-

- 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	100033	Jun, 08, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Dec. 15, 2004
BILOG Antenna SCHWARZBECK	VULB9168	9168-153	Feb. 03, 2005
HORN Antenna SCHWARZBECK	9120D	9120D-408	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170243	Feb. 23, 2005
Preamplifier Agilent	8447D	2944A10633	Jan. 15, 2005
Preamplifier Agilent	8449B	3008A01964	Jan. 27, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Mar. 05, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Mar. 05, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 2.
 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 IC4924-3.



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.

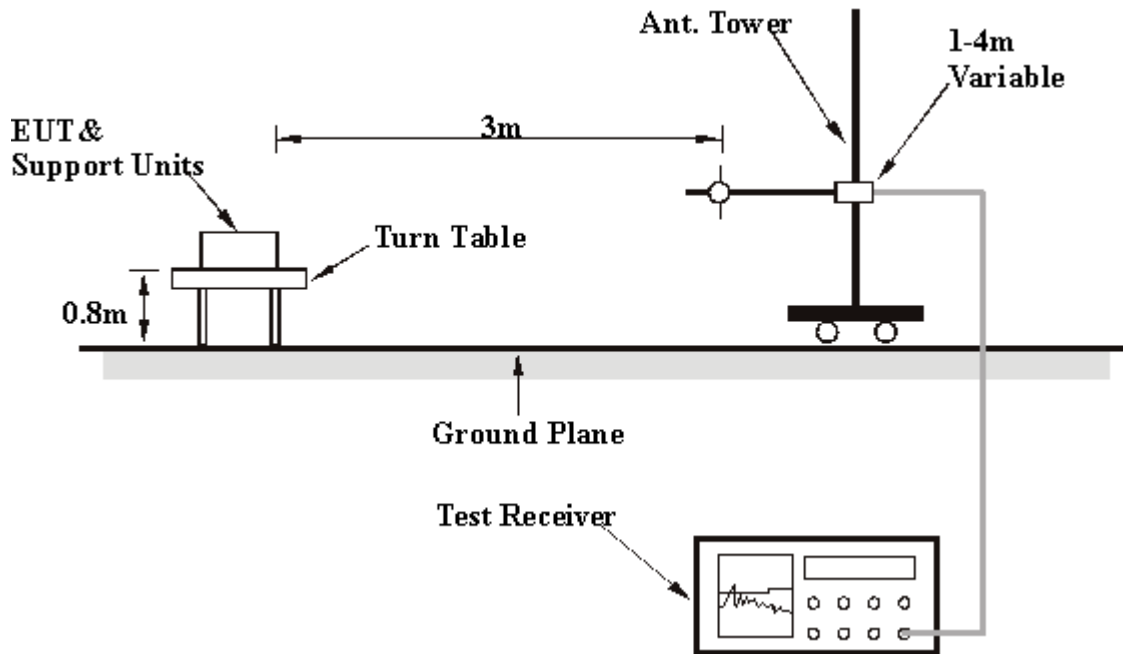
NOTE:

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

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 11	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

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	63.05	25.81 QP	40.00	-14.19	3.00 H	106	12.17	13.64
2	117.47	31.20 QP	43.50	-12.30	3.00 H	43	18.57	12.63
3	152.46	24.40 QP	43.50	-19.10	3.00 H	178	9.90	14.50
4	193.29	27.56 QP	43.50	-15.94	1.50 H	331	15.58	11.97
5	467.37	27.73 QP	46.00	-18.27	2.00 H	115	9.41	18.32
6	924.19	27.32 QP	46.00	-18.68	1.00 H	304	1.80	25.52

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	61.10	27.48 QP	40.00	-12.52	3.00 V	100	13.65	13.83
2	117.47	30.60 QP	43.50	-12.90	1.50 V	64	17.97	12.63
3	168.02	28.91 QP	43.50	-14.59	3.00 V	112	14.88	14.03
4	199.12	25.76 QP	43.50	-17.74	1.50 V	286	14.23	11.53
5	665.65	29.04 QP	46.00	-16.96	2.00 V	115	6.93	22.12
6	832.83	28.34 QP	46.00	-17.66	2.00 V	115	4.25	24.09

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



4.2.8 TEST RESULTS (A)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 1	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.45 PK	74.00	-17.55	1.21 H	254	24.84	31.61
1	2390.00	49.04 AV	54.00	-4.96	1.21 H	254	17.43	31.61
2	*2412.00	110.65 PK			1.21 H	254	78.95	31.70
2	*2412.00	103.24 AV			1.21 H	254	71.54	31.70
3	4824.00	53.12 PK	74.00	-20.88	1.00 H	152	15.54	37.58
3	4824.00	46.71 AV	54.00	-7.29	1.00 H	152	9.13	37.58
4	7236.00	58.32 PK	74.00	-15.68	1.47 H	262	14.18	44.14
4	7236.00	51.25 AV	54.00	-2.75	1.47 H	262	7.11	44.14
5	9648.00	64.19 PK	90.65	-26.46	1.61 H	127	15.82	48.37
5	9648.00	53.87 AV	83.24	-29.37	1.61 H	127	5.50	48.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.11 PK	74.00	-15.89	1.04 V	92	26.50	31.61
1	2390.00	50.67 AV	54.00	-3.33	1.04 V	92	19.06	31.61
2	*2412.00	112.31 PK			1.04 V	92	80.61	31.70
2	*2412.00	104.87 AV			1.04 V	92	73.17	31.70
3	4824.00	49.63 PK	74.00	-24.37	1.44 V	271	12.05	37.58
4	7236.00	55.91 PK	74.00	-18.09	1.00 V	197	11.77	44.14
4	7236.00	49.21 AV	54.00	-4.79	1.00 V	197	5.07	44.14
5	9648.00	60.17 PK	92.31	-32.14	1.32 V	171	11.80	48.37
5	9648.00	52.14 AV	84.87	-32.73	1.32 V	171	3.77	48.37

REMARKS:

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



EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 6	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	109.44 PK			1.20 H	208	77.59	31.85
1	*2437.00	101.96 AV			1.20 H	208	70.11	31.85
2	4874.00	53.17 PK	74.00	-20.83	1.54 H	317	15.51	37.66
2	4874.00	45.87 AV	54.00	-8.13	1.54 H	317	8.21	37.66
3	7311.00	55.60 PK	74.00	-18.40	1.95 H	147	11.27	44.33
3	7311.00	48.34 AV	54.00	-5.66	1.95 H	147	4.01	44.33
4	9748.00	62.19 PK	89.44	-27.25	1.95 H	147	13.75	48.44
4	9748.00	51.97 AV	81.96	-29.99	1.95 H	147	3.53	48.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	111.47 PK			1.32 V	241	79.62	31.85
1	*2437.00	103.71 AV			1.32 V	241	71.86	31.85
2	4874.00	53.17 PK	74.00	-20.83	1.22 V	175	15.51	37.66
2	4874.00	46.69 AV	54.00	-7.31	1.22 V	175	9.03	37.66
3	7311.00	54.82 PK	74.00	-19.18	1.28 V	217	10.49	44.33
3	7311.00	49.68 AV	54.00	-4.32	1.28 V	217	5.35	44.33
4	9748.00	61.29 PK	91.47	-30.18	1.71 V	263	12.85	48.44
4	9748.00	53.17 AV	83.71	-30.54	1.71 V	263	4.73	48.44

REMARKS:

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



EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 11	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.17 PK			1.14 H	62	77.17	32.00
1	*2462.00	101.09 AV			1.14 H	62	69.09	32.00
2	2483.50	58.49 PK	74.00	-15.51	1.14 H	62	26.36	32.13
2	2483.50	50.41 AV	54.00	-3.59	1.14 H	62	18.28	32.13
3	4924.00	52.29 PK	74.00	-21.71	1.12 H	228	14.55	37.74
3	4924.00	46.37 AV	54.00	-7.63	1.12 H	228	8.63	37.74
4	9848.00	60.39 PK	89.17	-28.78	1.00 H	174	11.73	48.66
4	9848.00	52.71 AV	81.09	-28.38	1.00 H	174	4.05	48.66

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	*2462.00	111.04 PK			1.12 V	284	79.04	32.00
1	*2462.00	103.12 AV			1.12 V	284	71.12	32.00
2	2483.50	60.36 PK	74.00	-13.64	1.12 V	284	28.23	32.13
2	2483.50	52.44 AV	54.00	-1.56	1.12 V	284	20.31	32.13
3	4924.00	53.12 PK	74.00	-20.88	1.00 V	176	15.38	37.74
3	4924.00	46.78 AV	54.00	-7.22	1.00 V	176	9.04	37.74
4	9848.00	61.81 PK	91.04	-29.23	1.25 V	129	13.15	48.66
4	9848.00	53.49 AV	83.12	-29.63	1.25 V	129	4.83	48.66

REMARKS:

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



4.2.9 TEST RESULTS (B)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 1	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.64 PK	74.00	-16.36	1.16 H	125	26.03	31.61
1	2390.00	48.25 AV	54.00	-5.75	1.16 H	125	16.64	31.61
2	*2412.00	104.31 PK			1.16 H	125	72.61	31.70
2	*2412.00	94.92 AV			1.16 H	125	63.22	31.70
3	4824.00	51.39 PK	74.00	-22.61	1.17 H	29	13.81	37.58
3	4824.00	45.92 AV	54.00	-8.08	1.17 H	29	8.34	37.58
4	7236.00	58.37 PK	74.00	-15.63	1.31 H	228	14.23	44.14
4	7236.00	49.36 AV	54.00	-4.64	1.31 H	228	5.22	44.14
5	9648.00	60.12 PK	84.31	-24.19	1.25 H	148	11.75	48.37
5	9648.00	48.28 AV	74.92	-26.64	1.25 H	148	-0.09	48.37

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.06 PK	74.00	-13.94	1.34 V	69	28.45	31.61
1	2390.00	49.51 AV	54.00	-4.49	1.34 V	69	17.90	31.61
2	*2412.00	106.73 PK			1.34 V	69	75.03	31.70
2	*2412.00	96.18 AV			1.34 V	69	64.48	31.70
3	4824.00	49.39 PK	74.00	-24.61	1.52 V	89	11.81	37.58
4	7236.00	60.24 PK	74.00	-13.76	1.17 V	147	16.10	44.14
4	7236.00	49.73 AV	54.00	-4.27	1.17 V	147	5.59	44.14
5	9648.00	61.58 PK	86.73	-25.15	1.81 V	334	13.21	48.37
5	9648.00	50.97 AV	76.18	-25.21	1.81 V	334	2.60	48.37

REMARKS:

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



EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 6	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.74 PK			1.12 H	179	74.89	31.85
1	*2437.00	95.94 AV			1.12 H	179	64.09	31.85
2	4874.00	46.37 PK	74.00	-27.63	1.48 H	227	8.71	37.66
3	7311.00	62.18 PK	74.00	-11.82	1.62 H	281	17.85	44.33
3	7311.00	52.72 AV	54.00	-1.28	1.62 H	281	8.39	44.33

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	108.68 PK			1.13 V	72	76.83	31.85
1	*2437.00	98.47 AV			1.13 V	72	66.62	31.85
2	4874.00	49.37 PK	74.00	-24.63	1.29 V	178	11.71	37.66
3	7311.00	62.79 PK	74.00	-11.21	1.21 V	317	18.46	44.33
3	7311.00	52.14 AV	54.00	-1.86	1.21 V	317	7.81	44.33

REMARKS:

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



EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
MODE	Channel 11	FREQUENCY RANGE	1 ~25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25 deg. C, 60 % RH, 991 hPa	TESTED BY: Long Chen	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.58 PK			1.24 H	171	71.58	32.00
1	*2462.00	93.64 AV			1.24 H	171	61.64	32.00
2	2483.50	55.48 PK	74.00	-18.52	1.24 H	171	23.35	32.13
2	2483.50	45.54 AV	54.00	-8.46	1.24 H	171	13.41	32.13
3	4924.00	48.67 PK	74.00	-25.33	1.65 H	100	10.93	37.74
4	7386.00	60.38 PK	74.00	-13.62	1.32 H	117	15.81	44.57
4	7386.00	50.62 AV	54.00	-3.38	1.32 H	117	6.05	44.57

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.47 PK			1.14 V	62	73.47	32.00
1	*2462.00	95.31 AV			1.14 V	62	63.31	32.00
2	2483.50	57.37 PK	74.00	-16.63	1.14 V	62	25.24	32.13
2	2483.50	47.21 AV	54.00	-6.79	1.14 V	62	15.08	32.13
3	4924.00	47.31 PK	74.00	-26.69	1.00 V	269	9.57	37.74
4	7386.00	62.58 PK	74.00	-11.42	1.47 V	262	18.01	44.57
4	7386.00	51.97 AV	54.00	-2.03	1.47 V	262	7.40	44.57

REMARKS:

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



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

NOTE:

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

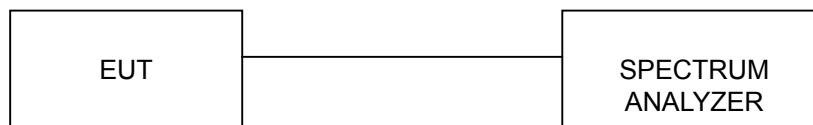
4.3.3 TEST PROCEDURE

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 6dB 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.



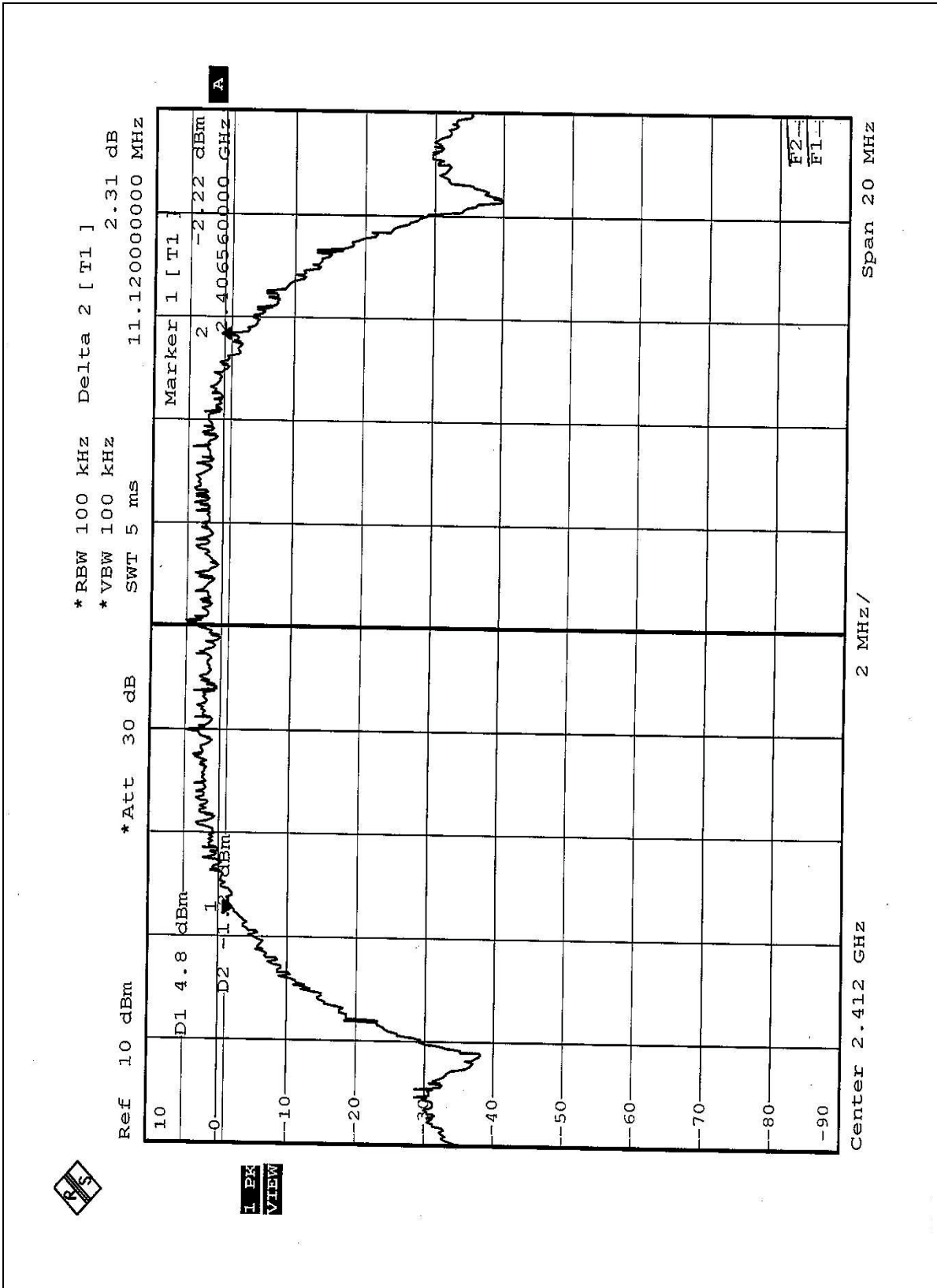
4.3.7 TEST RESULTS (A)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.12	0.5	PASS
6	2437	10.68	0.5	PASS
11	2462	10.72	0.5	PASS

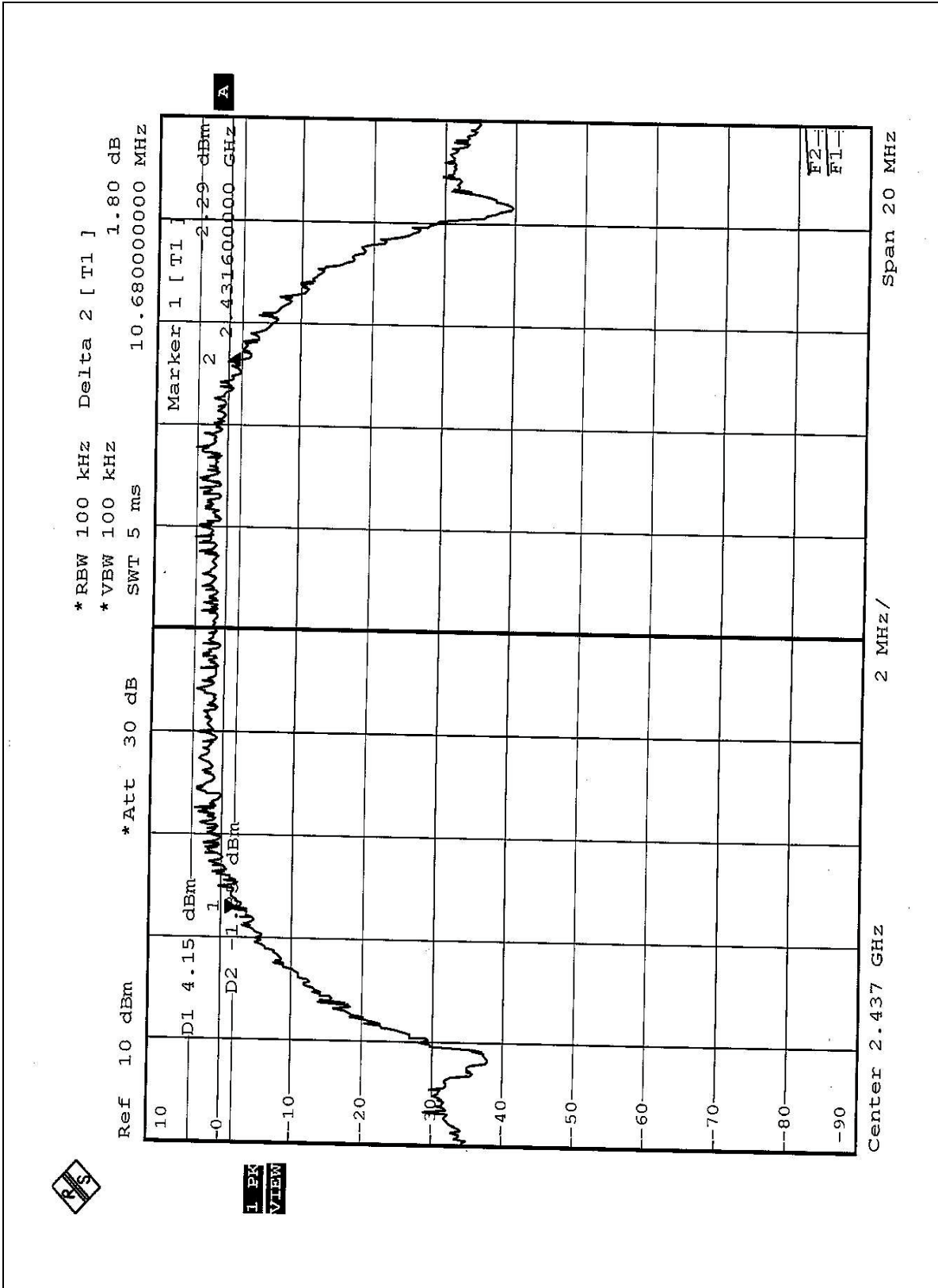


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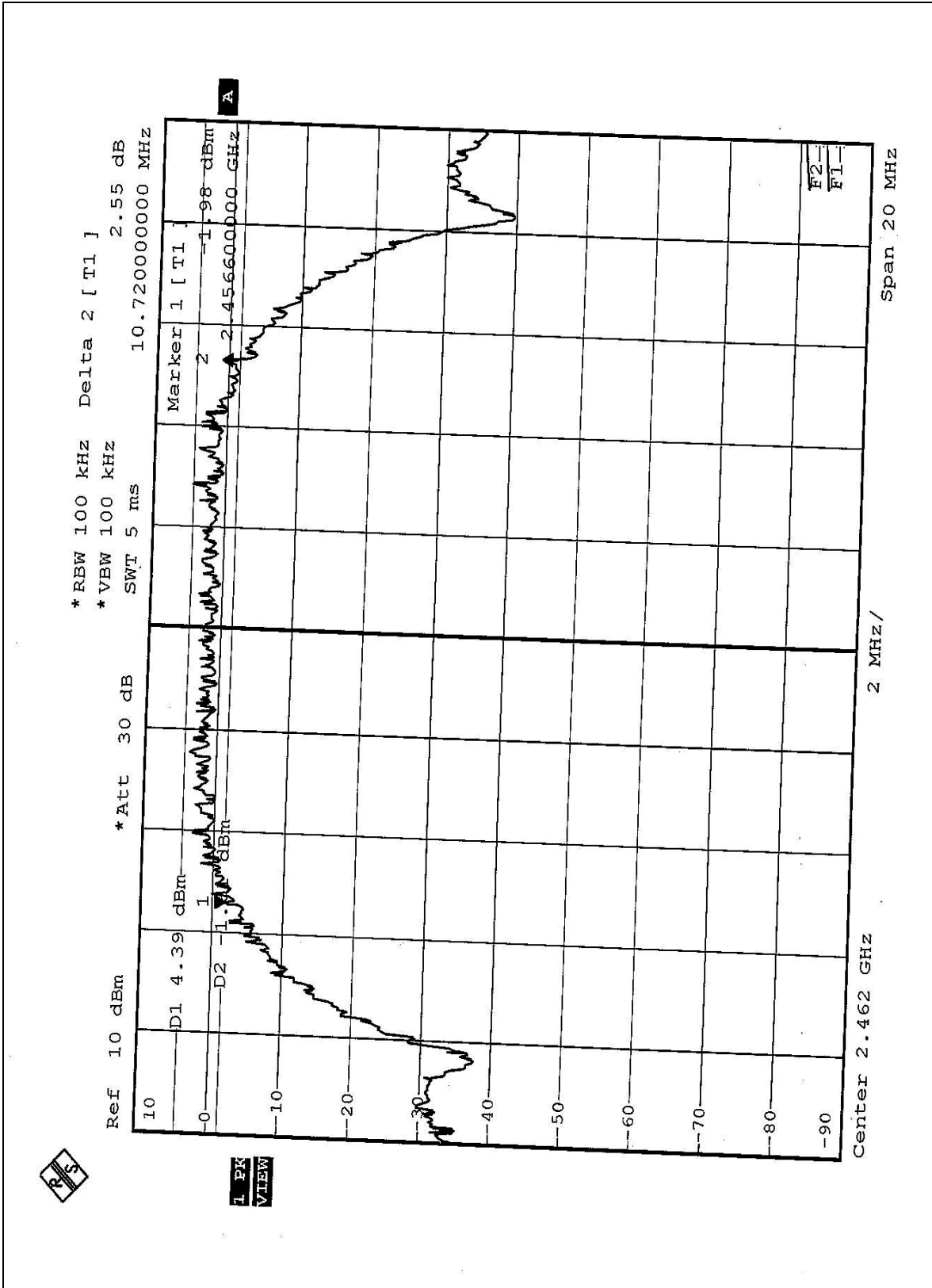


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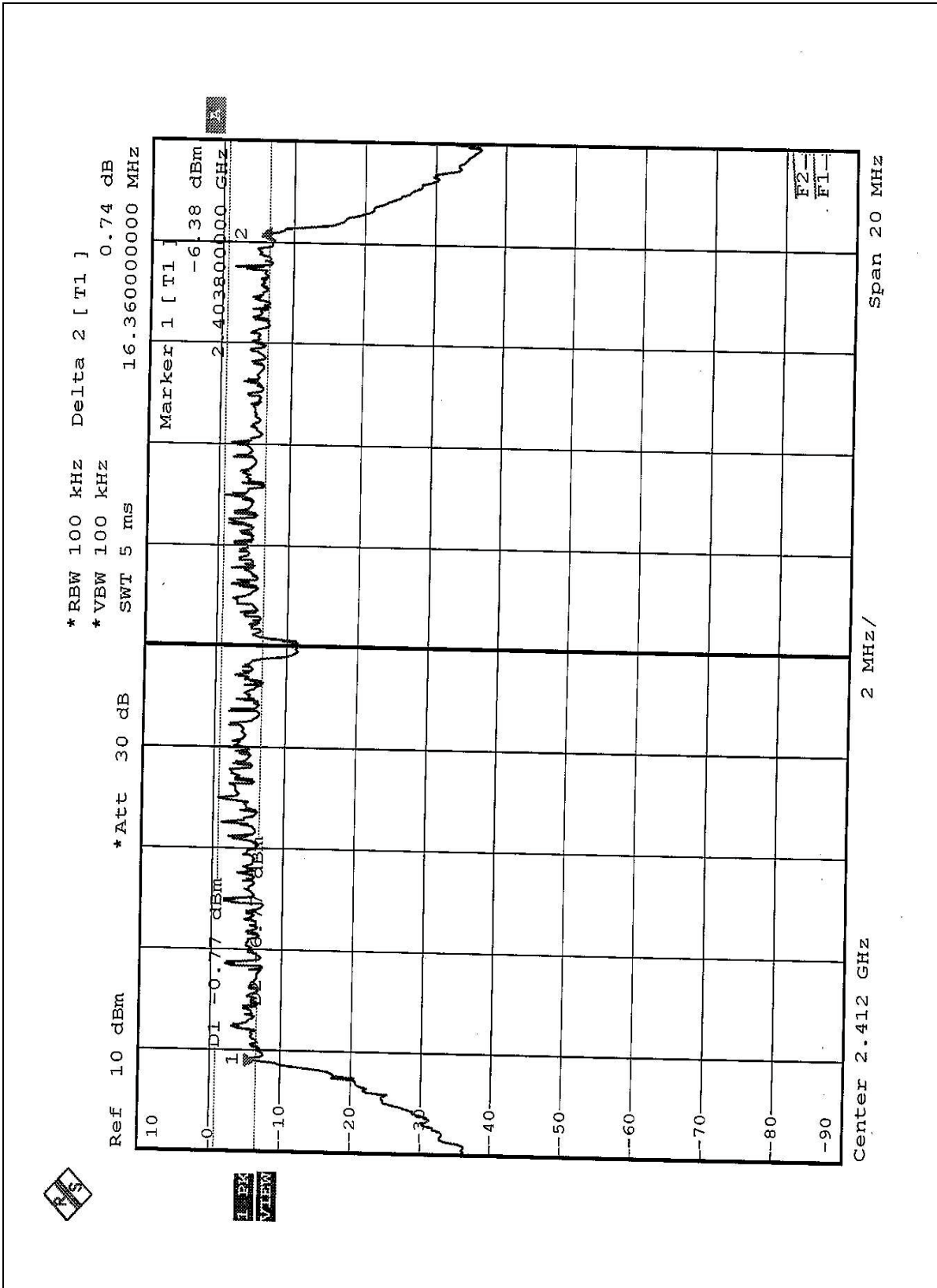
4.3.8 TEST RESULTS (B)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.36	0.5	PASS
6	2437	16.36	0.5	PASS
11	2462	16.36	0.5	PASS

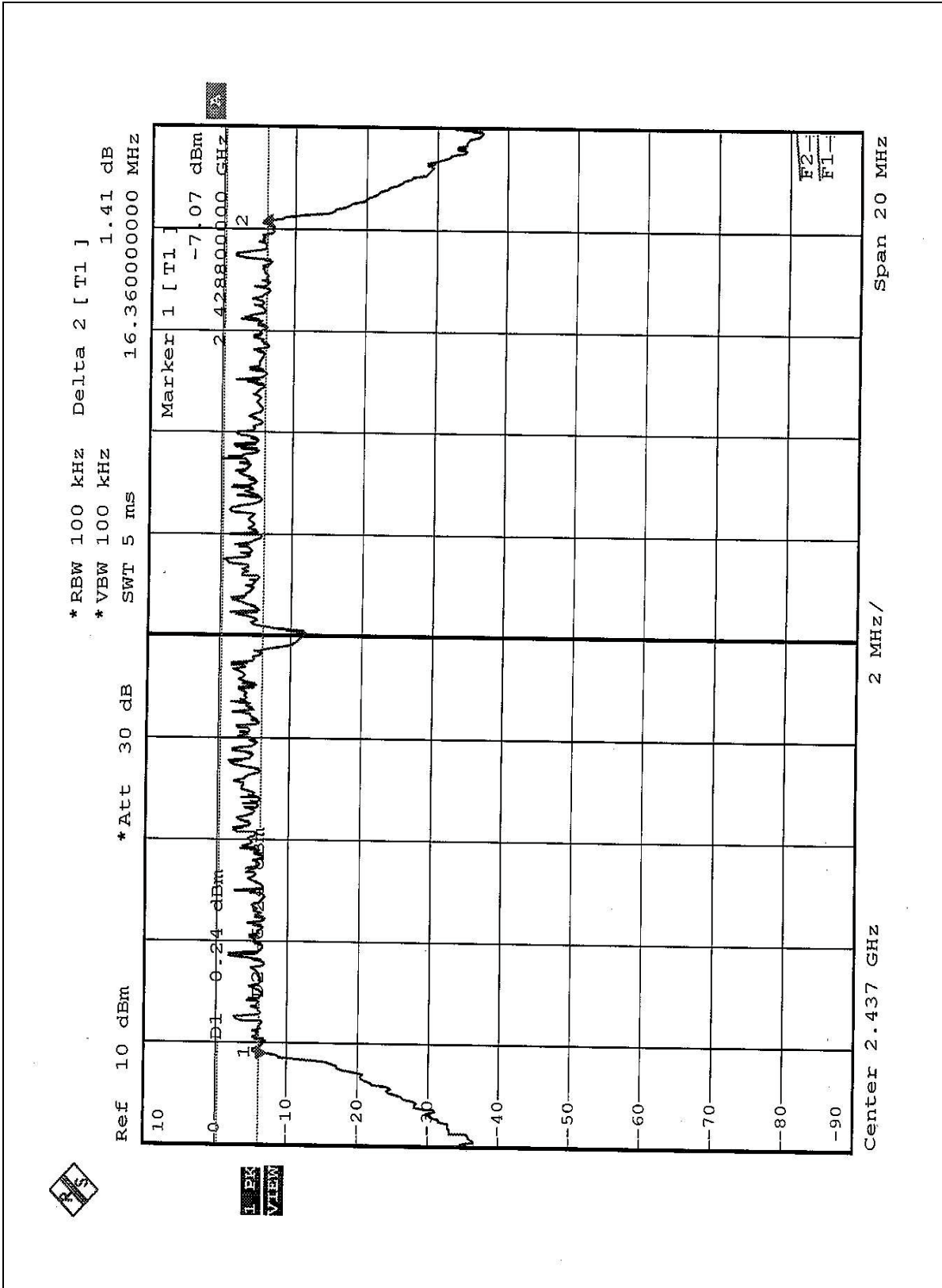


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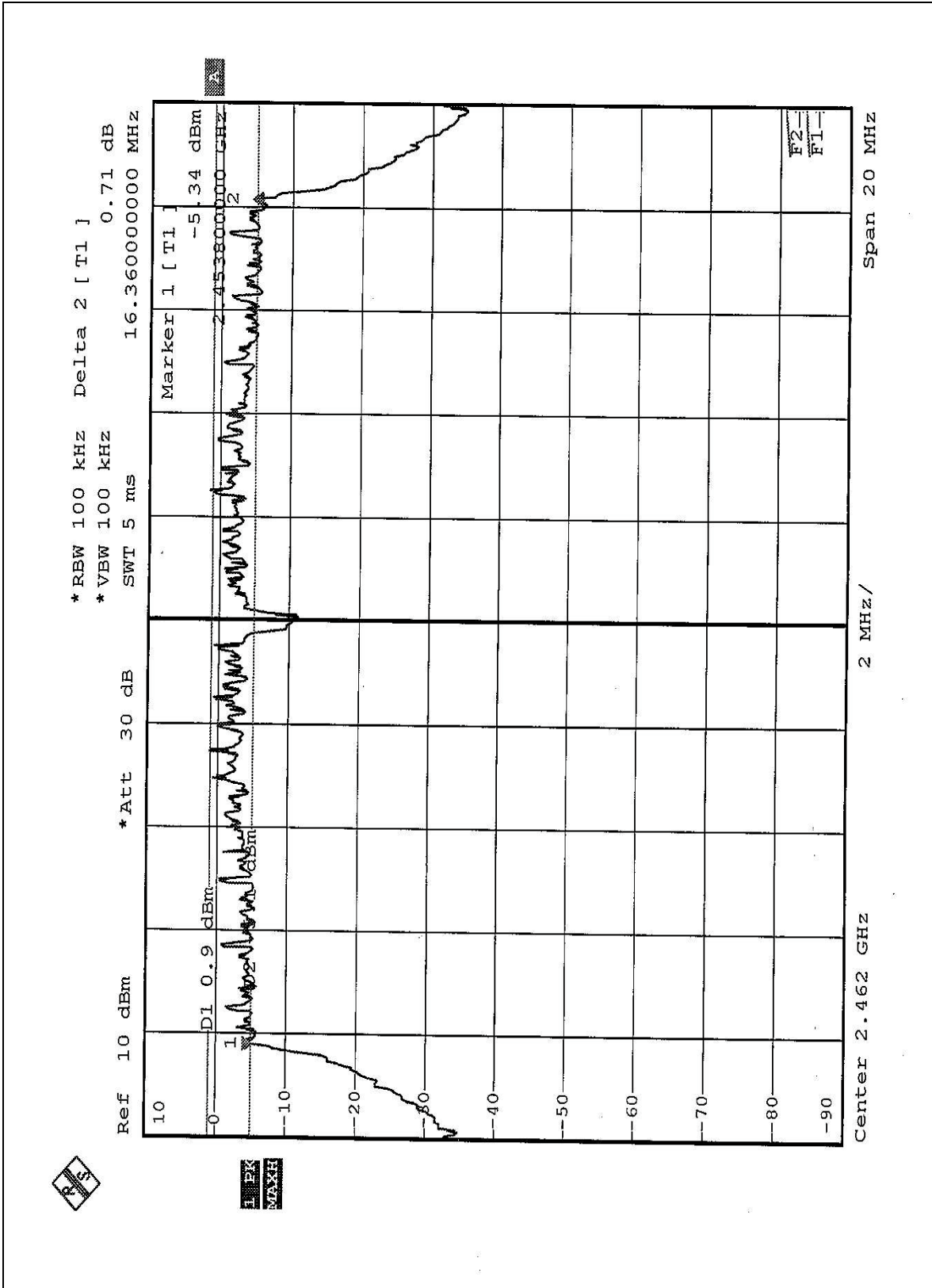


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CH11





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, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 27, 2005
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.



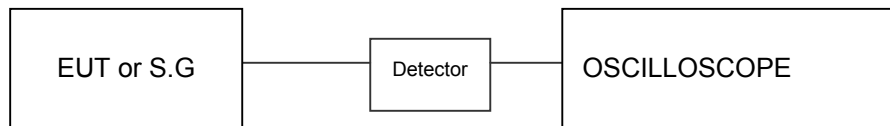
4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to peak the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same peak reading on oscilloscope. Record the power level.

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	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.00	30	PASS
6	2437	16.10	30	PASS
11	2462	16.10	30	PASS



4.4.8 TEST RESULTS (B)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.10	30	PASS
6	2437	15.20	30	PASS
11	2462	15.10	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, 2004

NOTE:

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

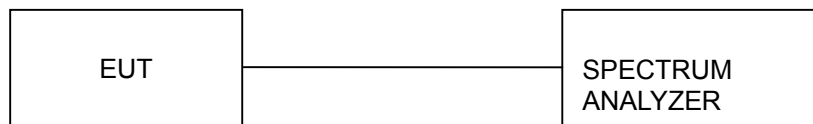
4.5.3 TEST PROCEDURE

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



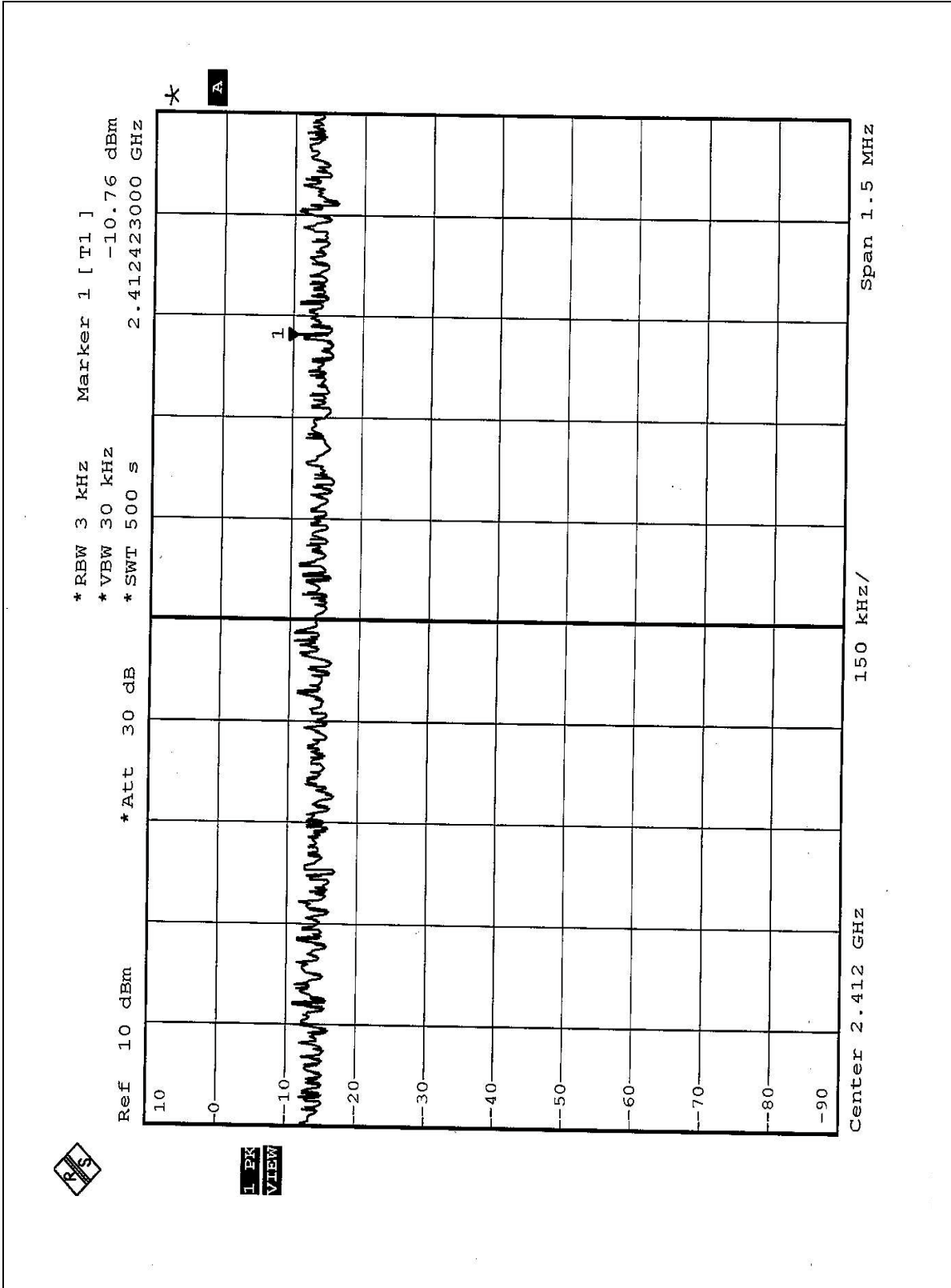
4.5.7 TEST RESULTS (A)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.76	8	PASS
6	2437	-10.00	8	PASS
11	2462	-10.27	8	PASS

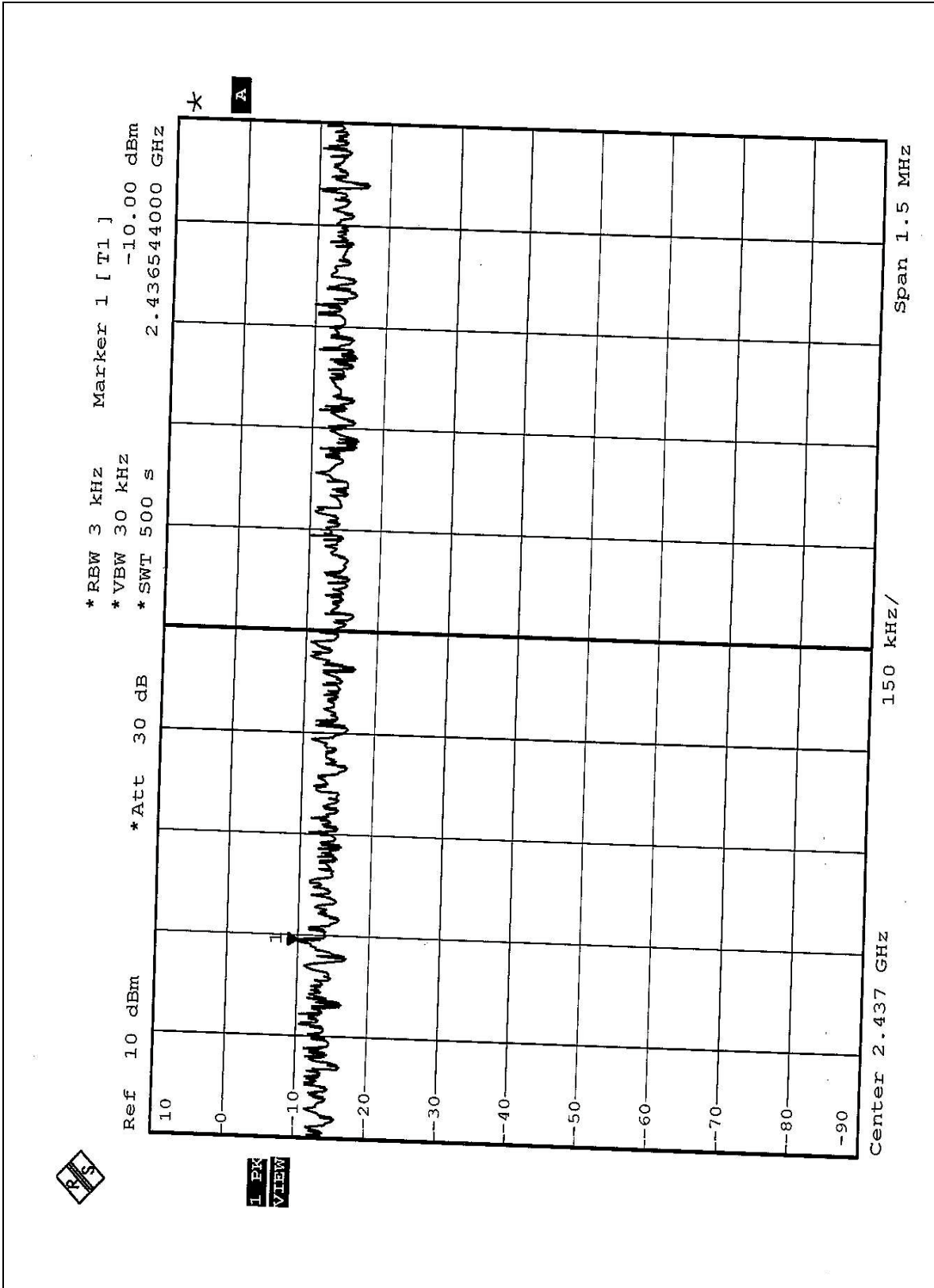


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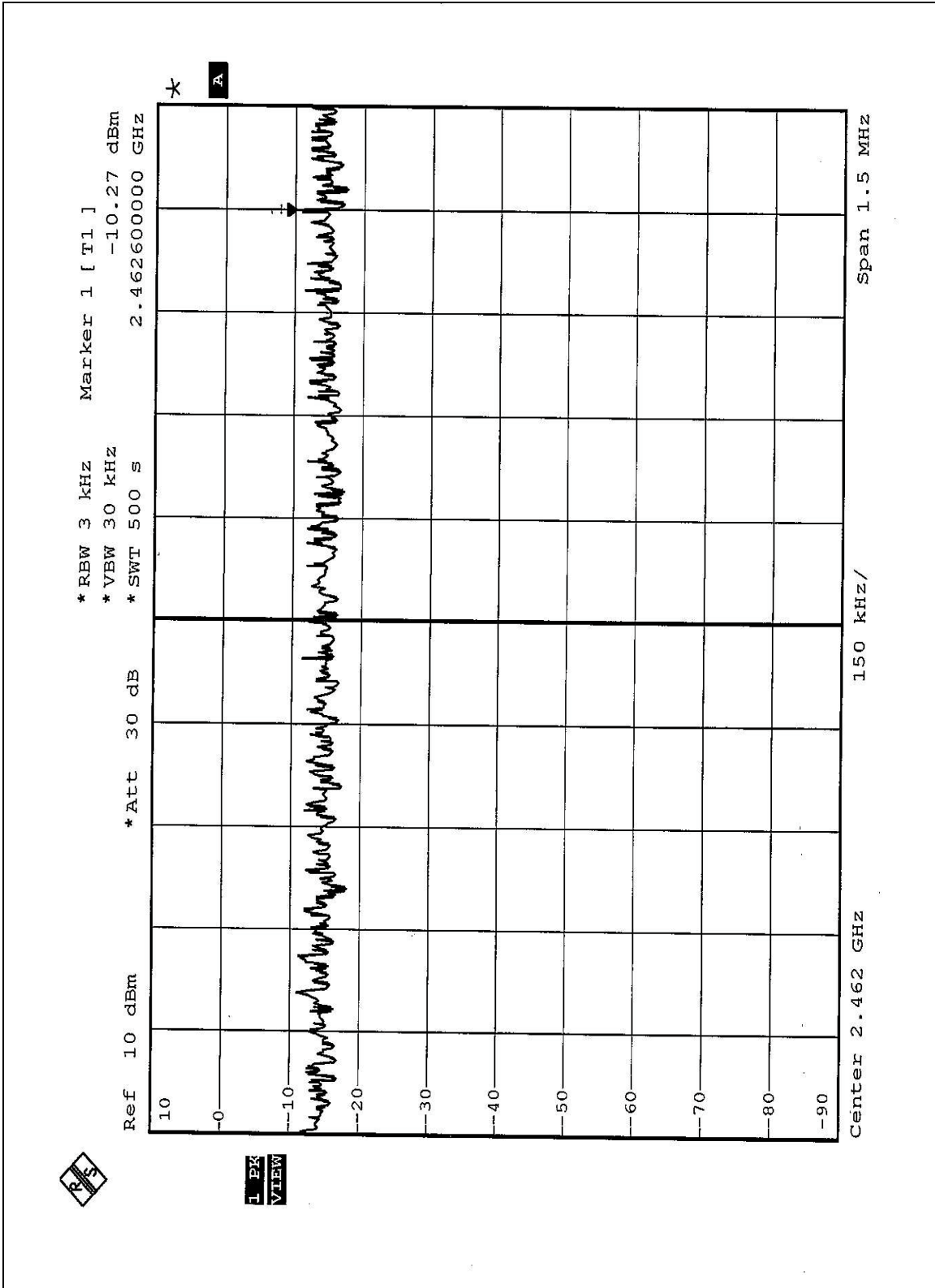


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CH11





4.5.8 TEST RESULTS (B)

EUT	Dell Wireless 1350 WLAN PC Card		
MODEL	WL-611GD		
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 57%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.18	8	PASS
6	2437	-14.22	8	PASS
11	2462	-14.02	8	PASS