



FCC TEST REPORT

REPORT NO.: RF930209R02
MODEL NO.: WL AP 2454 NM
(Please refer to page 6 for other model names)
RECEIVED: February 6, 2004
TESTED: February 6, 2004 ~ February 27, 2004

APPLICANT: GLOBAL SUN TECHNOLOGY INC.

ADDRESS: NO.13 Tung Yuan Rd., Jung Li Industrial Park
Jung Li City, Tao Yuan Hsien, Taiwan

ISSUED BY: Advance Data Technology Corporation

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

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0528
ILAC MRA



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1 CERTIFICATION

PRODUCT : 802.11g Wireless Access Point
MODEL NO.: WL AP 2454 NM
(Please refer to page 6 for other model names)
BRAND: GLOBAL SUN
(Please refer to page 6 for other brand names)
APPLICANT : GLOBAL SUN TECHNOLOGY INC.
TEST ITEM: ENGINEERING SAMPLE
STANDARDS : FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from February 6, 2004 to February 27, 2004. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY: Wendy Liao , **DATE:** March 2, 2004
Wendy Liao

APPROVED BY: Ellis Wu , **DATE:** March 2, 2004
Ellis Wu / 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 -11.88dB 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 -0.30dB at 2486.00MHz
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

NOTE: The information of measurement uncertainty is available upon the customer's request.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	802.11g Wireless Access Point
MODEL NO.	WL AP 2454 NM (Please refer to following table for other model names)
BRAND	GLOBAL SUN (Please refer to following table for other brand names)
POWER SUPPLY	5Vdc from power adapter
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	IEEE 802.11b: 11/5.5/2/1Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	16.74dBm / 11b 15.64dBm / 11g
ANTENNA TYPE	Dipole & PIFA antenna with 2dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. The following OEMs were provided to this EUT. They are identical to each other except for their model number and brand name due to marketing requirement.

ITEM	BRAND	MODEL NO.	REMARK
1	GLOBAL SUN	WL AP 2454 NM	
2	AOpen	AOI-882	OEM
3	Level One	WAP-9003	OEM
4	PLANET	WAP-4010	OEM
5	ORIGO	WLL-3710M	OEM
6	Etherwan Systems Inc.	EWA-0102-G	OEM
7	Topcom	Skvr@cer AP 554G	OEM
8	TP-LINK	TL-WA500	OEM
9	Tenwell	TW-AP54M	OEM

3. The EUT was operated with following power adapter:

Brand:	JENTEC TECHNOLOGY., LTD
Model:	JTA0302D
Input:	100-240Vac, 0.5A, 50-60Hz
Output:	5Vdc, 2.0A

4. Fully compatible with the 802.11g standard to provide a wireless data rate of up to 54Mbps.

5. Backwards compatible with the 802.11b standard to provide a wireless data rate of up to 11Mbps.

6. Operates in the 2.4GHz frequency range.

7. For more detailed features description, please refer to the manufacturer's specifications or user's manual.



3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

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

NOTE:

1. Below 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst cases, were chosen for final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 802.11g Wireless Access Point. 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: 1992

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

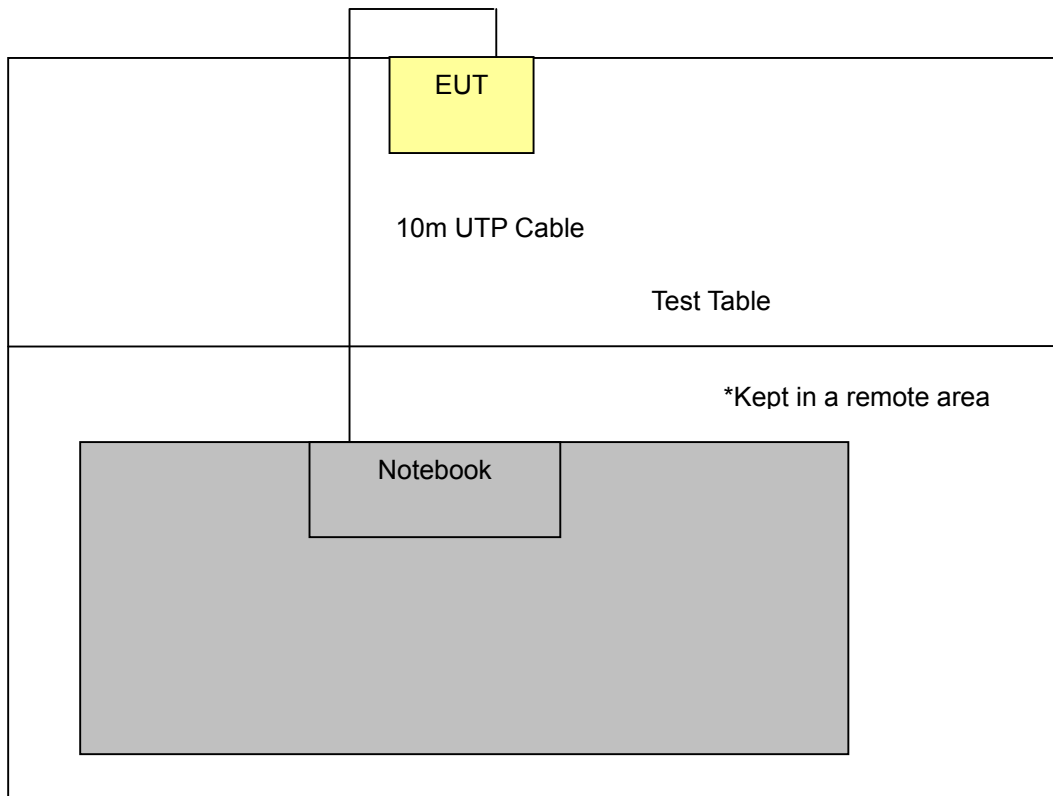
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-0791UH-12800-123-5423	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

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 (dB μ V)	
	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
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Jan. 04, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 09, 2004
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 09, 2004
*ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 19, 2004
*ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 19, 2004
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May 01, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Mar. 24, 2004
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Apr. 06, 2004

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. “*”: These equipment are used for conducted telecom port test only (if tested).
 3. The test was performed in ADT Shielded Room No. 10.
 4. The VCCI Site Registration No. is C-1312.



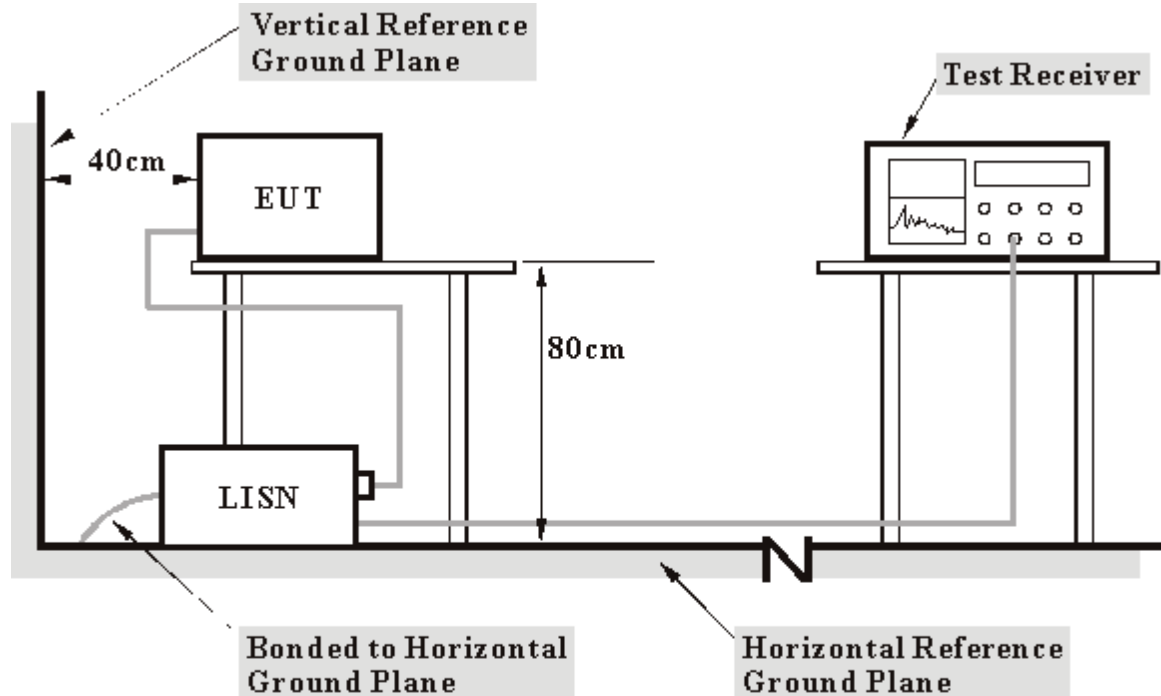
4.1.3 TEST PROCEDURES

- 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. Placed the EUT on the testing table.
- b. Prepared another notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ45 cable.
- d. The communication partner sent data to EUT by command "PING".

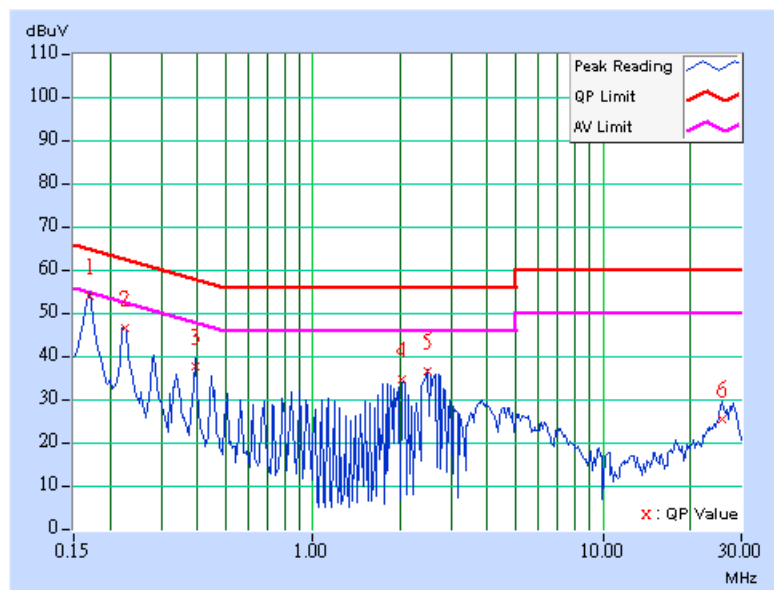


4.1.7 TEST RESULTS

EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.170	0.10	52.98	-	53.08	-	64.98	54.98	-11.90
2	0.224	0.10	45.58	-	45.68	-	62.66	52.66	-16.98	-
3	0.392	0.10	36.75	-	36.85	-	58.02	48.02	-21.17	-
4	2.027	0.20	33.43	-	33.63	-	56.00	46.00	-22.37	-
5	2.477	0.22	35.60	-	35.82	-	56.00	46.00	-20.18	-
6	25.891	1.20	24.22	-	25.42	-	60.00	50.00	-34.58	-

- 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.

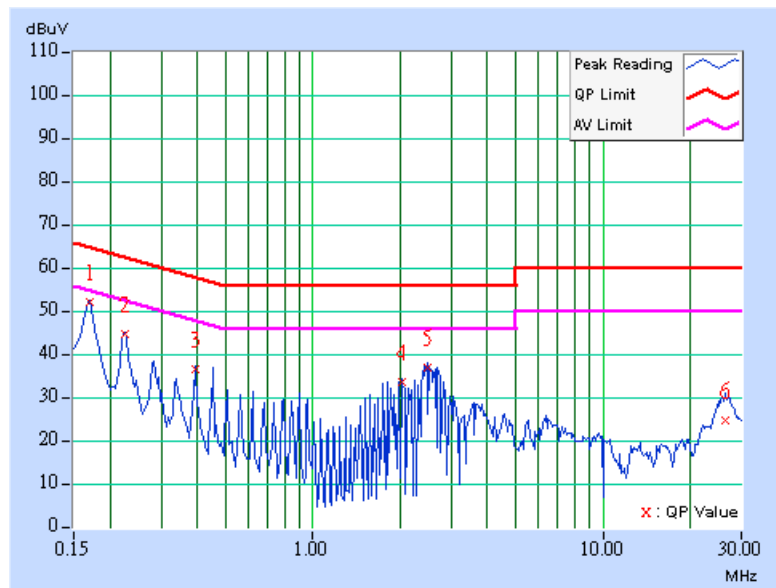




EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

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	0.10	51.27	-	51.37	-	64.98	54.98	-13.61	-
2	0.224	0.10	43.79	-	43.89	-	62.66	52.66	-18.77	-
3	0.392	0.10	35.57	-	35.67	-	58.02	48.02	-22.35	-
4	2.023	0.20	32.58	-	32.78	-	56.00	46.00	-23.22	-
5	2.473	0.22	35.91	-	36.13	-	56.00	46.00	-19.87	-
6	26.438	1.00	23.66	-	24.66	-	60.00	50.00	-35.34	-

- 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.

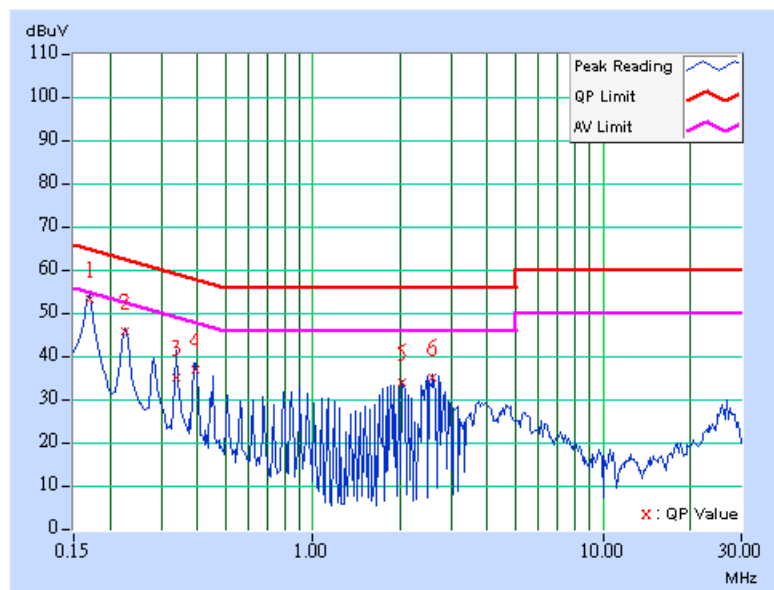




EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

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	0.10	52.96	-	53.06	-	64.98	54.98	-11.92	-
2	0.224	0.10	45.73	-	45.83	-	62.66	52.66	-16.83	-
3	0.338	0.10	34.90	-	35.00	-	59.26	49.26	-24.26	-
4	0.393	0.10	36.96	-	37.06	-	58.00	48.00	-20.94	-
5	2.027	0.20	33.68	-	33.88	-	56.00	46.00	-22.12	-
6	2.590	0.23	35.01	-	35.24	-	56.00	46.00	-20.76	-

- 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.

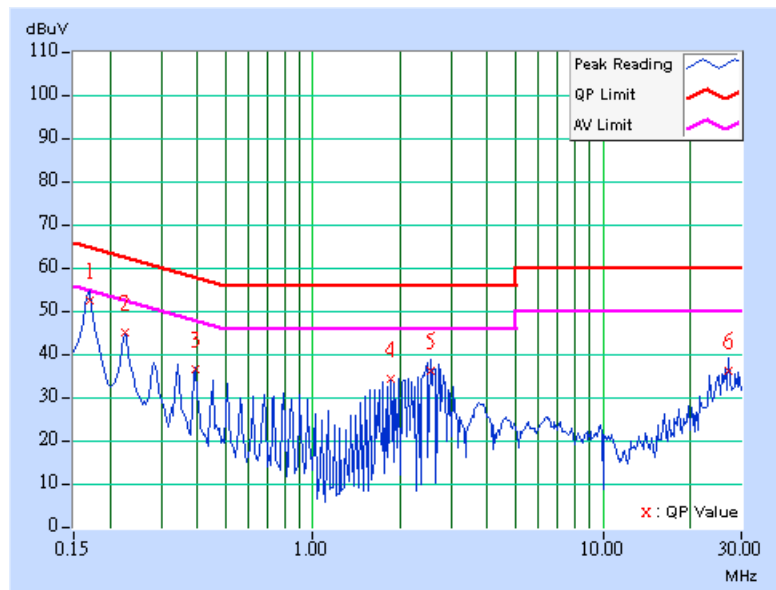




EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.170	0.10	51.62	-	51.72	-	64.98	54.98	-13.26
2	0.224	0.10	44.19	-	44.29	-	62.66	52.66	-18.37	-
3	0.392	0.10	35.54	-	35.64	-	58.02	48.02	-22.38	-
4	1.859	0.20	33.51	-	33.71	-	56.00	46.00	-22.29	-
5	2.535	0.23	35.32	-	35.55	-	56.00	46.00	-20.45	-
6	27.156	1.00	35.46	-	36.46	-	60.00	50.00	-23.54	-

- 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.

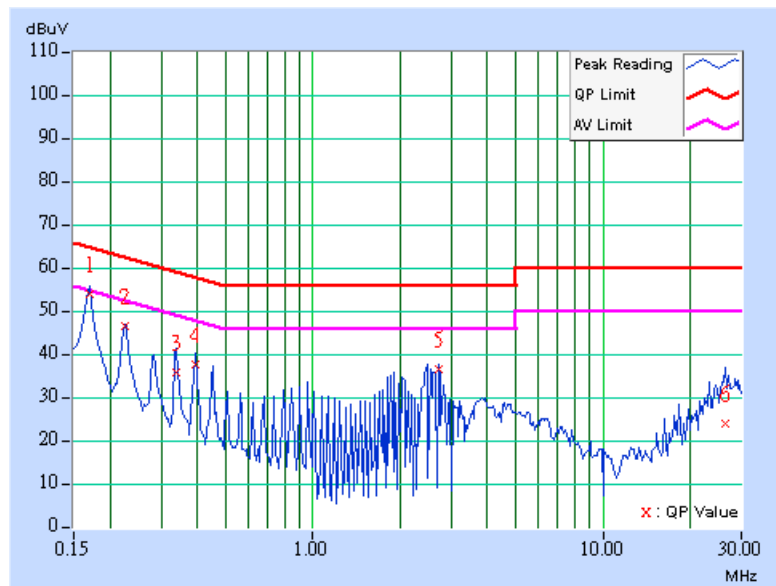




EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

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	0.10	53.00	-	53.10	-	64.98	54.98	-11.88	-
2	0.224	0.10	45.54	-	45.64	-	62.66	52.66	-17.02	-
3	0.338	0.10	34.87	-	34.97	-	59.26	49.26	-24.29	-
4	0.396	0.10	36.49	-	36.59	-	57.93	47.93	-21.34	-
5	2.703	0.24	35.33	-	35.57	-	56.00	46.00	-20.43	-
6	26.482	1.20	22.99	-	24.19	-	60.00	50.00	-35.81	-

- 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.

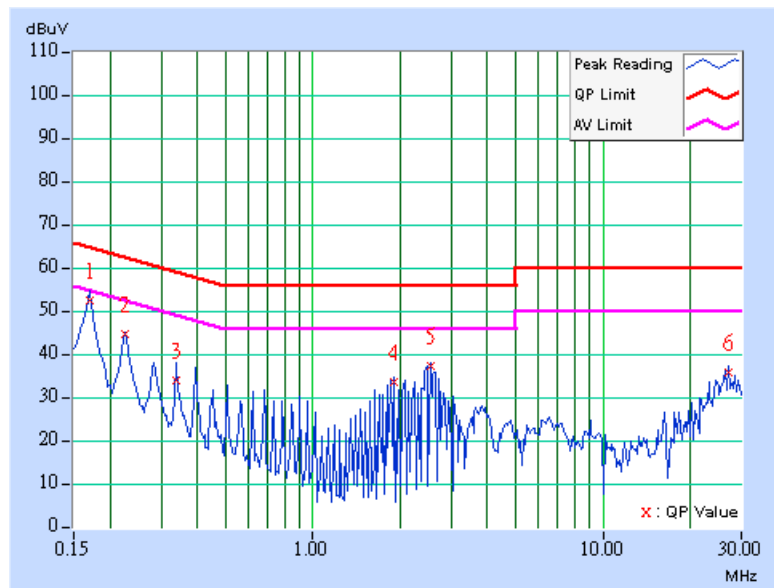




EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	15deg. C, 70%RH, 991hPa	TESTED BY: Steven Lu	

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	0.10	51.62	-	51.72	-	64.98	54.98	-13.26	-
2	0.224	0.10	43.97	-	44.07	-	62.66	52.66	-18.59	-
3	0.338	0.10	32.90	-	33.00	-	59.26	49.26	-26.26	-
4	1.914	0.20	32.78	-	32.98	-	56.00	46.00	-23.02	-
5	2.535	0.23	36.34	-	36.57	-	56.00	46.00	-19.43	-
6	27.156	1.00	34.86	-	35.86	-	60.00	50.00	-24.14	-

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





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
*HP Spectrum Analyzer	8593E	3911A07465	Jul. 07, 2004
*HP Preamplifier	8447D	2944A10386	Aug. 12, 2004
* HP Preamplifier	8449B	3008A01292	Aug. 11, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Jun. 26, 2004
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
*SCHAFFNER TEST RECEIVER	SCR 3501	409	Nov. 06, 2004
* SCHAFFNER BILOG Antenna	CBL6111C	2727	Jul. 15, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jun. 30, 2004
* ADT. Turn Table	TT100	0201	NA
* ADT. Tower	AT100	0201	NA
* Software	ADT_Radiated_V5.14	NA	NA
* ANRITSU RF Switches	MP59B	6100237246	Oct. 17, 2004
* TIMES RF cable	LMR-600	CABLE-ST10-01	Oct. 17, 2004

- NOTE:**
1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
 2. "*" = These equipment are used for the final measurement.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The test was performed in ADT Open Site No. 10.
 5. The VCCI Site Registration No. is R-1625.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

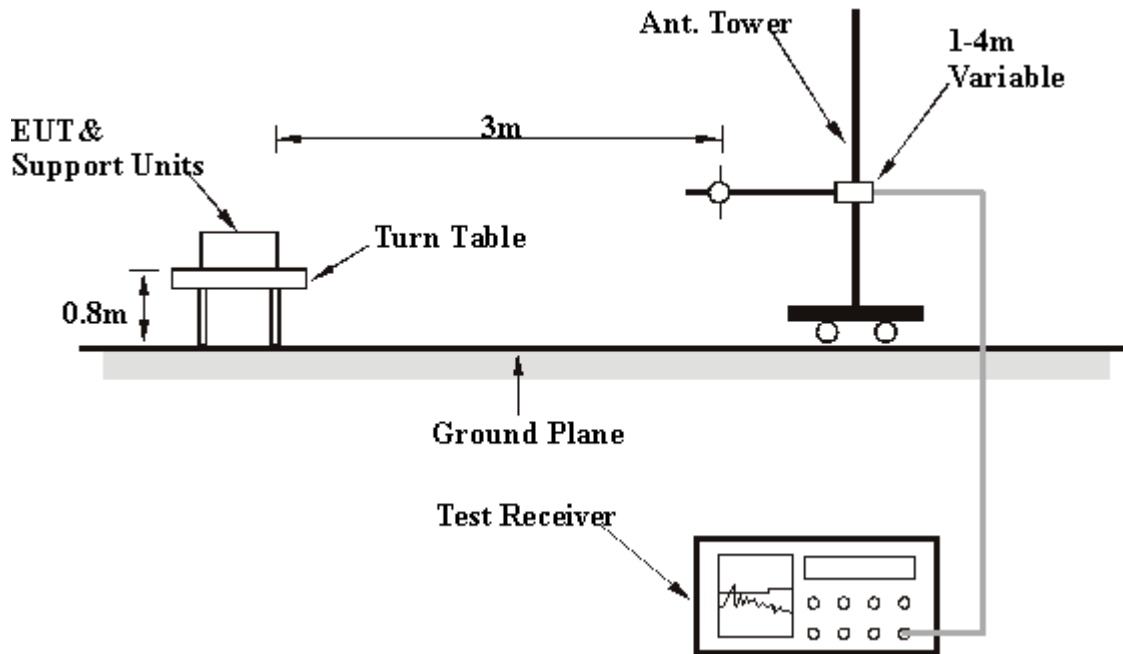
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
MODE	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 64%RH, 991hPa	TESTED BY: Steven Lu	

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	61.10	32.93 QP	40.00	-7.07	1.00 H	79	20.50	12.43
2	94.36	36.38 QP	43.50	-7.12	2.00 H	142	27.00	9.38
3	144.69	34.11 QP	43.50	-9.39	1.00 H	91	20.69	13.42
4	175.79	29.47 QP	43.50	-14.03	3.00 H	106	17.26	12.21
5	294.37	33.26 QP	46.00	-12.74	3.00 H	331	19.05	14.22
6	337.13	28.38 QP	46.00	-17.62	3.00 H	307	13.07	15.31
7	463.49	35.03 QP	46.00	-10.97	3.00 H	319	16.45	18.58
8	531.52	32.08 QP	46.00	-13.92	1.00 H	49	12.28	19.80
9	560.68	31.41 QP	46.00	-14.59	2.00 H	127	10.89	20.51
10	611.22	32.48 QP	46.00	-13.52	2.00 H	310	10.74	21.74
11	640.38	36.30 QP	46.00	-9.70	1.00 H	235	14.18	22.12
12	700.64	38.07 QP	46.00	-7.93	1.00 H	247	15.16	22.91
13	751.18	31.03 QP	46.00	-14.97	1.00 H	145	6.79	24.24
14	799.78	43.50 QP	46.00	-2.50	1.00 H	151	19.09	24.41

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
MODE	Channel 11	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20deg. C, 64%RH, 991hPa	TESTED BY: Steven Lu	

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	68.26	33.78 QP	40.00	-6.22	2.25 V	154	22.12	11.66
2	91.78	33.47 QP	43.50	-10.03	2.25 V	154	24.31	9.16
3	189.40	38.41 QP	43.50	-5.09	1.25 V	271	27.24	11.16
4	259.38	35.65 QP	46.00	-10.35	1.50 V	10	22.70	12.94
5	420.72	35.98 QP	46.00	-10.02	1.50 V	226	18.43	17.55
6	479.04	37.56 QP	46.00	-8.44	1.00 V	337	18.76	18.79
7	558.74	34.83 QP	46.00	-11.17	2.00 V	127	14.37	20.46
8	632.61	40.10 QP	46.00	-5.90	1.00 V	178	18.08	22.02
9	700.64	33.76 QP	46.00	-12.24	1.25 V	199	10.86	22.91
10	799.78	38.53 QP	46.00	-7.47	1.25 V	265	14.12	24.41

- 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.



4.2.8 TEST RESULTS (FOR CCK)

EUT	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 1	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	41.12 PK	74.00	-32.88	1.00 H	41	12.10	29.02
1	1120.00	35.12 AV	54.00	-18.88	1.00 H	41	6.10	29.02
2	1280.00	42.41 PK	74.00	-31.59	1.26 H	329	13.51	28.90
2	1280.00	37.64 AV	54.00	-16.36	1.26 H	329	8.74	28.90
3	2266.00	44.73 PK	74.00	-29.27	1.33 H	326	13.29	31.44
3	2266.00	38.51 AV	54.00	-15.49	1.33 H	326	7.07	31.44
4	2300.00	45.62 PK	74.00	-28.38	1.33 H	326	14.11	31.51
4	2300.00	38.89 AV	54.00	-15.11	1.33 H	326	7.38	31.51
5	2310.00	44.88 PK	74.00	-29.12	1.33 H	326	13.48	31.40
5	2310.00	37.96 AV	54.00	-16.04	1.33 H	326	6.56	31.40
6	2354.00	43.04 PK	74.00	-30.96	1.00 H	325	12.13	30.92
6	2354.00	32.04 AV	54.00	-21.96	1.00 H	325	1.13	30.92
7	2376.00	41.27 PK	74.00	-32.73	1.00 H	325	10.59	30.67
7	2376.00	30.80 AV	54.00	-23.20	1.00 H	325	0.12	30.67
8	*2412.00	99.43 PK			1.20 H	327	69.01	30.42
8	*2412.00	91.27 AV			1.20 H	327	60.85	30.42
9	2500.00	46.00 PK	74.00	-28.00	1.26 H	27	15.53	30.47
9	2500.00	38.74 AV	54.00	-15.26	1.26 H	27	8.27	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 1	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	40.43 PK	74.00	-33.57	1.04 V	328	11.41	29.02
1	1120.00	34.47 AV	54.00	-19.53	1.04 V	328	5.45	29.02
2	1280.00	40.98 PK	74.00	-33.02	1.27 V	140	12.08	28.90
2	1280.00	34.63 AV	54.00	-19.37	1.27 V	140	5.73	28.90
3	2354.00	48.69 PK	74.00	-25.31	1.11 V	360	17.78	30.92
3	2354.00	41.72 AV	54.00	-12.28	1.11 V	360	10.81	30.92
4	2376.00	49.18 PK	74.00	-24.82	1.16 V	343	18.50	30.67
4	2376.00	41.87 AV	54.00	-12.13	1.16 V	343	11.19	30.67
5	*2412.00	111.91 PK			1.13 V	347	81.49	30.42
5	*2412.00	103.77 AV			1.13 V	347	73.35	30.42
6	2500.00	56.00 PK	74.00	-18.00	1.15 V	24	25.53	30.47
6	2500.00	50.88 AV	54.00	-3.12	1.15 V	24	20.41	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 6	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	40.12 PK	74.00	-33.88	1.40 H	83	11.10	29.02
1	1120.00	34.37 AV	54.00	-19.63	1.40 H	83	5.35	29.02
2	1280.00	42.22 PK	74.00	-31.78	1.21 H	86	13.32	28.90
2	1280.00	38.20 AV	54.00	-15.80	1.21 H	86	9.30	28.90
3	2240.00	42.02 PK	74.00	-31.98	1.00 H	68	10.64	31.38
3	2240.00	35.21 AV	54.00	-18.79	1.00 H	68	3.83	31.38
4	2250.00	42.01 PK	74.00	-31.99	1.02 H	326	10.61	31.40
4	2250.00	34.73 AV	54.00	-19.27	1.02 H	326	3.33	31.40
5	2266.00	45.29 PK	74.00	-28.71	1.02 H	328	13.85	31.44
5	2266.00	39.46 AV	54.00	-14.54	1.02 H	328	8.02	31.44
6	2300.00	45.85 PK	74.00	-28.15	1.35 H	327	14.34	31.51
6	2300.00	36.34 AV	54.00	-17.66	1.35 H	327	4.83	31.51
7	2310.00	45.24 PK	74.00	-28.76	1.34 H	327	13.84	31.40
7	2310.00	38.24 AV	54.00	-15.76	1.34 H	327	6.84	31.40
8	*2437.00	102.82 PK			1.00 H	55	71.31	31.51
8	*2437.00	94.74 AV			1.00 H	55	63.23	31.51
9	2486.00	54.90 PK	74.00	-19.10	1.00 H	55	24.44	30.46
9	2486.00	46.82 AV	54.00	-7.18	1.00 H	55	16.36	30.46
10	2500.00	51.43 PK	74.00	-22.57	1.00 H	55	20.96	30.47
10	2500.00	43.35 AV	54.00	-10.65	1.00 H	55	12.88	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 6	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.12 PK	74.00	-34.88	1.16 V	328	10.10	29.02
1	1120.00	33.57 AV	54.00	-20.43	1.16 V	328	4.55	29.02
2	1280.00	40.35 PK	74.00	-33.65	1.52 V	7	11.45	28.90
2	1280.00	32.80 AV	54.00	-21.20	1.52 V	7	3.90	28.90
3	2240.00	47.69 PK	74.00	-26.31	1.00 V	10	16.31	31.38
3	2240.00	43.15 AV	54.00	-10.85	1.00 V	10	11.77	31.38
4	2250.00	47.54 PK	74.00	-26.46	1.00 V	10	16.14	31.40
4	2250.00	42.04 AV	54.00	-11.96	1.00 V	10	10.64	31.40
5	2266.00	53.50 PK	74.00	-20.50	1.28 V	350	22.06	31.44
5	2266.00	48.89 AV	54.00	-5.11	1.28 V	350	17.45	31.44
6	2300.00	50.42 PK	74.00	-23.58	1.01 V	330	18.91	31.51
6	2300.00	43.00 AV	54.00	-11.00	1.01 V	330	11.49	31.51
7	2310.00	50.61 PK	74.00	-23.39	1.01 V	330	19.21	31.40
7	2310.00	46.36 AV	54.00	-7.64	1.01 V	330	14.96	31.40
8	*2437.00	112.79 PK			1.16 V	22	82.36	30.43
8	*2437.00	104.65 AV			1.16 V	22	74.22	30.43
9	2486.00	61.84 PK	74.00	-12.16	1.16 V	22	31.38	30.46
9	2486.00	53.70 AV	54.00	-0.30	1.16 V	22	23.24	30.46
10	2500.00	59.40 PK	74.00	-14.60	1.16 V	22	28.93	30.47
10	2500.00	51.26 AV	54.00	-2.74	1.16 V	22	20.79	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 11	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	40.76 PK	74.00	-33.24	1.00 H	40	11.74	29.02
1	1120.00	34.36 AV	54.00	-19.64	1.00 H	40	5.34	29.02
2	1280.00	43.02 PK	74.00	-30.98	1.12 H	92	14.12	28.90
2	1280.00	38.37 AV	54.00	-15.63	1.12 H	92	9.47	28.90
3	2244.00	41.97 PK	74.00	-32.03	1.00 H	328	10.58	31.39
3	2244.00	34.74 AV	54.00	-19.26	1.00 H	328	3.35	31.39
4	2250.00	42.71 PK	74.00	-31.29	1.00 H	328	11.31	31.40
4	2250.00	36.37 AV	54.00	-17.63	1.00 H	328	4.97	31.40
5	2266.00	41.88 PK	74.00	-32.12	1.25 H	303	10.44	31.44
5	2266.00	36.14 AV	54.00	-17.86	1.25 H	303	4.70	31.44
6	2300.00	46.53 PK	74.00	-27.47	1.34 H	328	15.02	31.51
6	2300.00	38.64 AV	54.00	-15.36	1.34 H	328	7.13	31.51
7	2310.00	44.85 PK	74.00	-29.15	1.28 H	332	13.45	31.40
7	2310.00	36.74 AV	54.00	-17.26	1.28 H	332	5.34	31.40
8	*2462.00	100.31 PK			1.00 H	301	69.86	30.45
8	*2462.00	92.34 AV			1.00 H	301	61.89	30.45
9	2500.00	48.68 PK	74.00	-25.32	1.00 H	301	18.21	30.47
9	2500.00	40.71 AV	54.00	-13.29	1.00 H	301	10.24	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 11	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.43 PK	74.00	-34.57	1.16 V	290	10.41	29.02
1	1120.00	32.36 AV	54.00	-21.64	1.16 V	290	3.34	29.02
2	1280.00	40.23 PK	74.00	-33.77	1.25 V	142	11.33	28.90
2	1280.00	33.67 AV	54.00	-20.33	1.25 V	142	4.77	28.90
3	2250.00	48.32 PK	74.00	-25.68	1.29 V	353	16.92	31.40
3	2250.00	43.12 AV	54.00	-10.88	1.29 V	353	11.72	31.40
4	2266.00	53.36 PK	74.00	-20.64	1.29 V	353	21.92	31.44
4	2266.00	49.05 AV	54.00	-4.95	1.29 V	353	17.61	31.44
5	2300.00	53.77 PK	74.00	-20.23	1.00 V	350	22.26	31.51
5	2300.00	48.21 AV	54.00	-5.79	1.00 V	350	16.70	31.51
6	2310.00	53.69 PK	74.00	-20.31	1.00 V	350	22.29	31.40
6	2310.00	47.57 AV	54.00	-6.43	1.00 V	350	16.17	31.40
7	*2462.00	109.30 PK			1.08 V	24	78.85	30.45
7	*2462.00	101.47 AV			1.08 V	24	71.02	30.45
8	2500.00	59.67 PK	74.00	-14.33	1.08 V	24	29.20	30.47
8	2500.00	51.84 AV	54.00	-2.16	1.08 V	24	21.37	30.47

- 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 (FOR OFDM)

EUT	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 1	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	40.63 PK	74.00	-33.37	1.00 H	42	11.61	29.02
1	1120.00	34.43 AV	54.00	-19.57	1.00 H	42	5.41	29.02
2	1280.00	42.79 PK	74.00	-31.21	1.14 H	88	13.89	28.90
2	1280.00	38.33 AV	54.00	-15.67	1.14 H	88	9.43	28.90
3	2266.00	45.53 PK	74.00	-28.47	1.04 H	326	14.09	31.44
3	2266.00	39.81 AV	54.00	-14.19	1.04 H	326	8.37	31.44
4	2300.00	47.18 PK	74.00	-26.82	1.36 H	325	15.67	31.51
4	2300.00	38.89 AV	54.00	-15.11	1.36 H	325	7.38	31.51
5	2310.00	45.54 PK	74.00	-28.46	1.36 H	325	14.14	31.40
5	2310.00	38.26 AV	54.00	-15.74	1.36 H	325	6.86	31.40
6	2354.00	43.54 PK	74.00	-30.46	1.00 H	320	12.62	30.92
6	2354.00	34.14 AV	54.00	-19.86	1.00 H	320	3.22	30.92
7	*2412.00	94.94 PK			1.00 H	320	64.52	30.42
7	*2412.00	85.54 AV			1.00 H	320	55.12	30.42
8	2500.00	48.07 PK	74.00	-25.93	1.00 H	300	17.60	30.47
8	2500.00	42.29 AV	54.00	-11.71	1.00 H	300	11.82	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 1	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.12 PK	74.00	-34.88	1.22 V	287	10.10	29.02
1	1120.00	34.13 AV	54.00	-19.87	1.22 V	287	5.11	29.02
2	1280.00	40.72 PK	74.00	-33.28	1.28 V	40	11.82	28.90
2	1280.00	34.36 AV	54.00	-19.64	1.28 V	40	5.46	28.90
3	2300.00	54.37 PK	74.00	-19.63	1.00 V	353	22.86	31.51
3	2300.00	48.06 AV	54.00	-5.94	1.00 V	353	16.55	31.51
4	2310.00	53.00 PK	74.00	-21.00	1.00 V	353	21.60	31.40
4	2310.00	48.10 AV	54.00	-5.90	1.00 V	353	16.70	31.40
5	2354.00	55.10 PK	74.00	-18.90	1.26 V	274	24.18	30.92
5	2354.00	45.44 AV	54.00	-8.56	1.26 V	274	14.52	30.92
6	*2412.00	106.05 PK			1.26 V	274	75.63	30.42
6	*2412.00	96.84 AV			1.26 V	274	66.42	30.42
7	2500.00	55.17 PK	74.00	-18.83	1.00 V	52	24.70	30.47
7	2500.00	50.10 AV	54.00	-3.90	1.00 V	52	19.63	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 6	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	40.32 PK	74.00	-33.68	1.00 H	40	11.30	29.02
1	1120.00	33.96 AV	54.00	-20.04	1.00 H	40	4.94	29.02
2	1280.00	41.79 PK	74.00	-32.21	1.28 H	328	12.89	28.90
2	1280.00	36.96 AV	54.00	-17.04	1.28 H	328	8.06	28.90
3	2266.00	44.67 PK	74.00	-29.33	1.34 H	326	13.23	31.44
3	2266.00	38.98 AV	54.00	-15.02	1.34 H	326	7.54	31.44
4	2300.00	44.31 PK	74.00	-29.69	1.34 H	326	12.80	31.51
4	2300.00	35.44 AV	54.00	-18.56	1.34 H	326	3.93	31.51
5	2310.00	44.78 PK	74.00	-29.22	1.32 H	325	13.38	31.40
5	2310.00	37.64 AV	54.00	-16.36	1.32 H	325	6.24	31.40
6	2350.00	40.49 PK	74.00	-33.51	1.25 H	330	9.53	30.96
6	2350.00	29.87 AV	54.00	-24.13	1.25 H	330	-1.09	30.96
7	2354.00	41.33 PK	74.00	-32.67	1.25 H	330	10.42	30.92
7	2354.00	31.15 AV	54.00	-22.85	1.25 H	330	0.24	30.92
8	*2437.00	98.18 PK			1.20 H	334	67.75	30.43
8	*2437.00	88.57 AV			1.20 H	334	58.14	30.43
9	2486.36	50.05 PK	74.00	-23.95	1.20 H	334	19.59	30.46
9	2486.36	40.44 AV	54.00	-13.56	1.20 H	334	9.98	30.46
10	2500.00	49.39 PK	74.00	-24.61	1.20 H	334	18.92	30.47
10	2500.00	39.78 AV	54.00	-14.22	1.20 H	334	9.31	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 6	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.12 PK	74.00	-34.88	1.00 V	310	10.10	29.02
1	1120.00	30.97 AV	54.00	-23.03	1.00 V	310	1.95	29.02
2	1280.00	40.03 PK	74.00	-33.97	1.40 V	312	11.13	28.90
2	1280.00	32.98 AV	54.00	-21.02	1.40 V	312	4.08	28.90
3	2266.00	53.71 PK	74.00	-20.29	1.00 V	351	22.27	31.44
3	2266.00	49.40 AV	54.00	-4.60	1.00 V	351	17.96	31.44
4	2300.00	52.75 PK	74.00	-21.25	1.00 V	351	21.24	31.51
4	2300.00	45.31 AV	54.00	-8.69	1.00 V	351	13.80	31.51
5	2310.00	52.88 PK	74.00	-21.12	1.00 V	351	21.48	31.40
5	2310.00	47.87 AV	54.00	-6.13	1.00 V	351	16.47	31.40
6	2350.00	48.78 PK	74.00	-25.22	1.00 V	351	17.82	30.96
6	2350.00	39.38 AV	54.00	-14.62	1.00 V	351	8.42	30.96
7	2354.00	48.74 PK	74.00	-25.26	1.00 V	351	17.83	30.92
7	2354.00	40.26 AV	54.00	-13.74	1.00 V	351	9.38	30.92
8	*2437.00	108.57 PK			1.18 V	342	78.14	30.43
8	*2437.00	99.13 AV			1.18 V	342	68.70	30.43
9	2486.36	60.44 PK	74.00	-13.56	1.18 V	342	29.98	30.46
9	2486.36	51.00 AV	54.00	-3.00	1.18 V	342	20.54	30.46
10	2500.00	59.78 PK	74.00	-14.22	1.18 V	342	29.31	30.47
10	2500.00	50.34 AV	54.00	-3.66	1.18 V	342	19.87	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 11	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.32 PK	74.00	-34.68	1.01 H	20	10.30	29.02
1	1120.00	33.04 AV	54.00	-20.96	1.01 H	20	4.02	29.02
2	1280.00	41.99 PK	74.00	-32.01	1.28 H	329	13.09	28.90
2	1280.00	36.91 AV	54.00	-17.09	1.28 H	329	8.01	28.90
3	2240.00	41.99 PK	74.00	-32.01	1.00 H	327	10.61	31.39
3	2240.00	33.30 AV	54.00	-20.70	1.00 H	327	1.92	31.39
4	2244.00	42.80 PK	74.00	-31.20	1.00 H	327	11.41	31.39
4	2244.00	36.04 AV	54.00	-17.96	1.00 H	327	4.65	31.39
5	2250.00	41.69 PK	74.00	-32.31	1.00 H	327	10.29	31.40
5	2250.00	35.27 AV	54.00	-18.73	1.00 H	327	3.87	31.40
6	2266.00	44.09 PK	74.00	-29.91	1.00 H	327	12.65	31.44
6	2266.00	39.13 AV	54.00	-14.87	1.00 H	327	7.69	31.44
7	2300.00	45.68 PK	74.00	-28.32	1.34 H	329	14.17	31.51
7	2300.00	38.84 AV	54.00	-15.16	1.34 H	329	7.33	31.51
8	2310.00	45.00 PK	74.00	-29.00	1.34 H	329	13.60	31.40
8	2310.00	37.42 AV	54.00	-16.58	1.34 H	329	6.02	31.40
9	*2462.00	94.57 PK			1.00 H	56	64.12	30.45
9	*2462.00	85.72 AV			1.00 H	56	55.27	30.45
10	2500.00	49.57 PK	74.00	-24.43	1.00 H	56	19.10	30.47
10	2500.00	40.72 AV	54.00	-13.28	1.00 H	56	10.25	30.47

- 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	802.11g Wireless Access Point	Model	WL AP 2454 NM
CHANNEL	Channel 11	FREQUENCY RANGE	1~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	20deg. C, 55%RH, 991hPa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY: Steven Lu			

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	1120.00	39.30 PK	74.00	-34.70	1.13 V	293	10.28	29.02
1	1120.00	33.50 AV	54.00	-20.50	1.13 V	293	4.48	29.02
2	1280.00	39.72 PK	74.00	-34.28	1.00 V	159	10.82	28.90
2	1280.00	31.99 AV	54.00	-22.01	1.00 V	159	3.09	28.90
3	2240.00	45.64 PK	74.00	-28.36	1.00 V	9	14.26	31.38
3	2240.00	40.55 AV	54.00	-13.45	1.00 V	9	9.17	31.38
4	2244.00	47.31 PK	74.00	-26.69	1.00 V	9	15.92	31.39
4	2244.00	41.02 AV	54.00	-12.98	1.00 V	9	9.63	31.39
5	2250.00	47.01 PK	74.00	-26.99	1.00 V	9	15.61	31.40
5	2250.00	43.21 AV	54.00	-10.79	1.00 V	9	11.81	31.40
6	2266.00	52.21 PK	74.00	-21.79	1.17 V	350	20.77	31.44
6	2266.00	48.97 AV	54.00	-5.03	1.17 V	350	17.53	31.44
7	2300.00	52.51 PK	74.00	-21.49	1.26 V	327	21.00	31.51
7	2300.00	46.79 AV	54.00	-7.21	1.26 V	327	15.28	31.51
8	2310.00	51.31 PK	74.00	-22.69	1.28 V	328	19.91	31.40
8	2310.00	46.49 AV	54.00	-7.51	1.28 V	328	15.09	31.40
9	*2462.00	106.21 PK			1.14 V	23	75.76	30.45
9	*2462.00	96.91 AV			1.14 V	23	66.46	30.45
10	2500.00	61.21 PK	74.00	-12.79	1.14 V	23	30.74	30.47
10	2500.00	51.91 AV	54.00	-2.09	1.14 V	23	21.44	30.47

- 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.

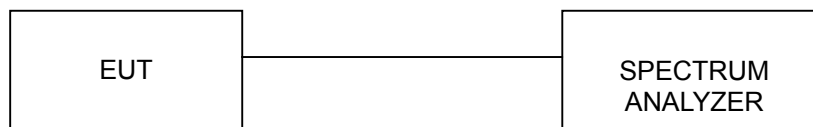
4.3.3 TEST PROCEDURE

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 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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

4.3.6 EUT OPERATING CONDITIONS

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



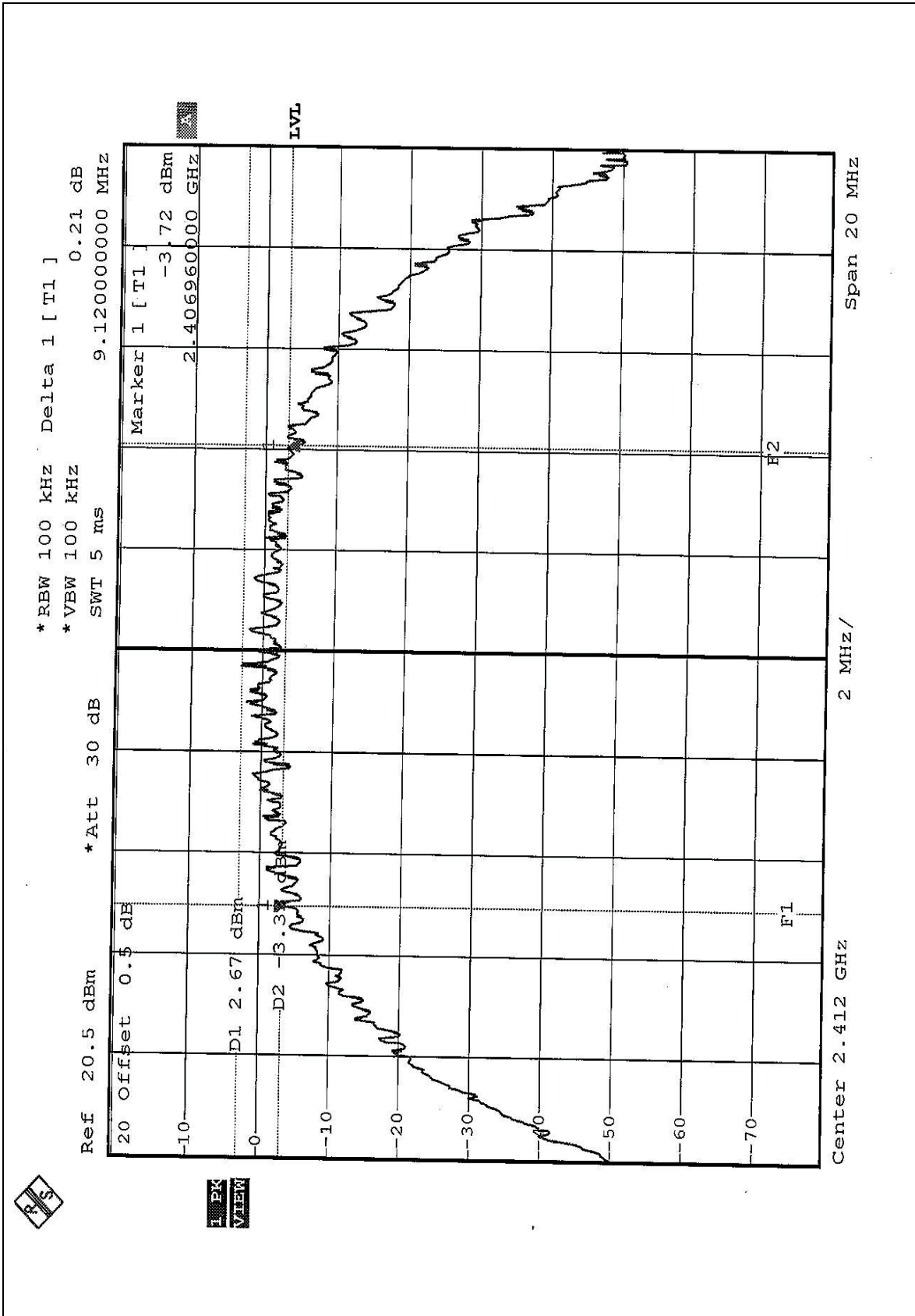
4.3.7 TEST RESULTS

EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.12	0.5	PASS
6	2437	9.48	0.5	PASS
11	2462	9.52	0.5	PASS

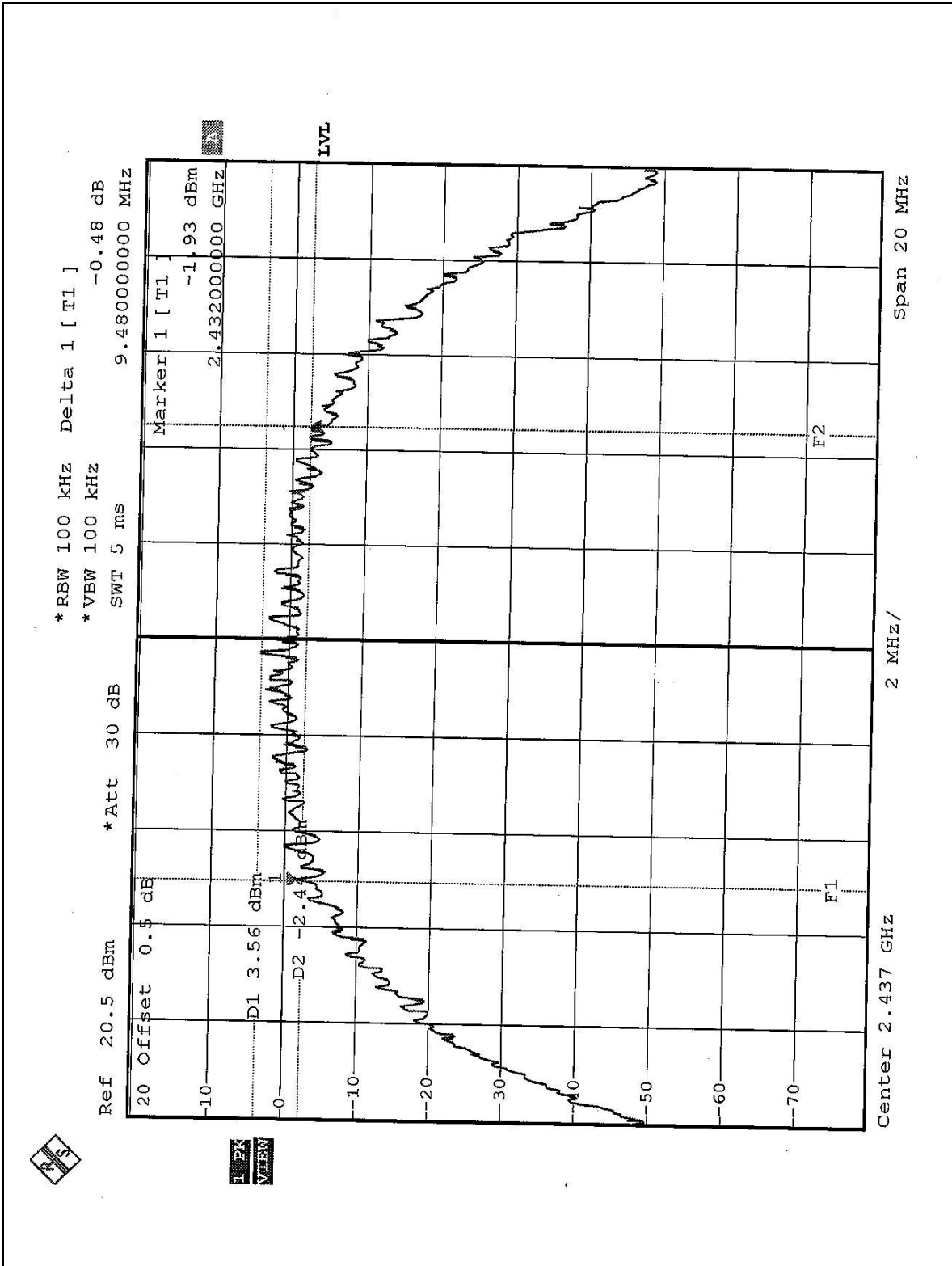


CH1



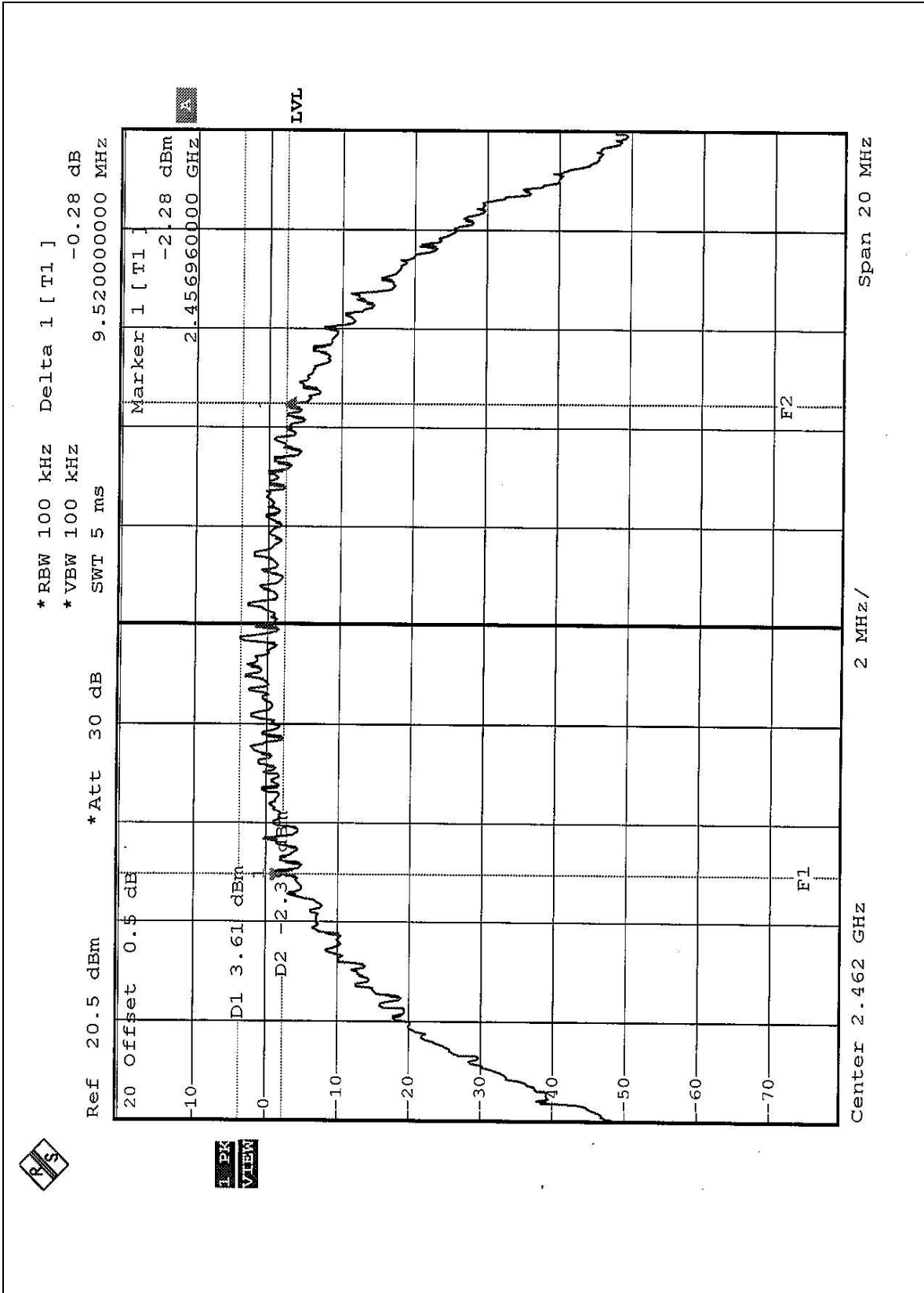


CH6





CH11



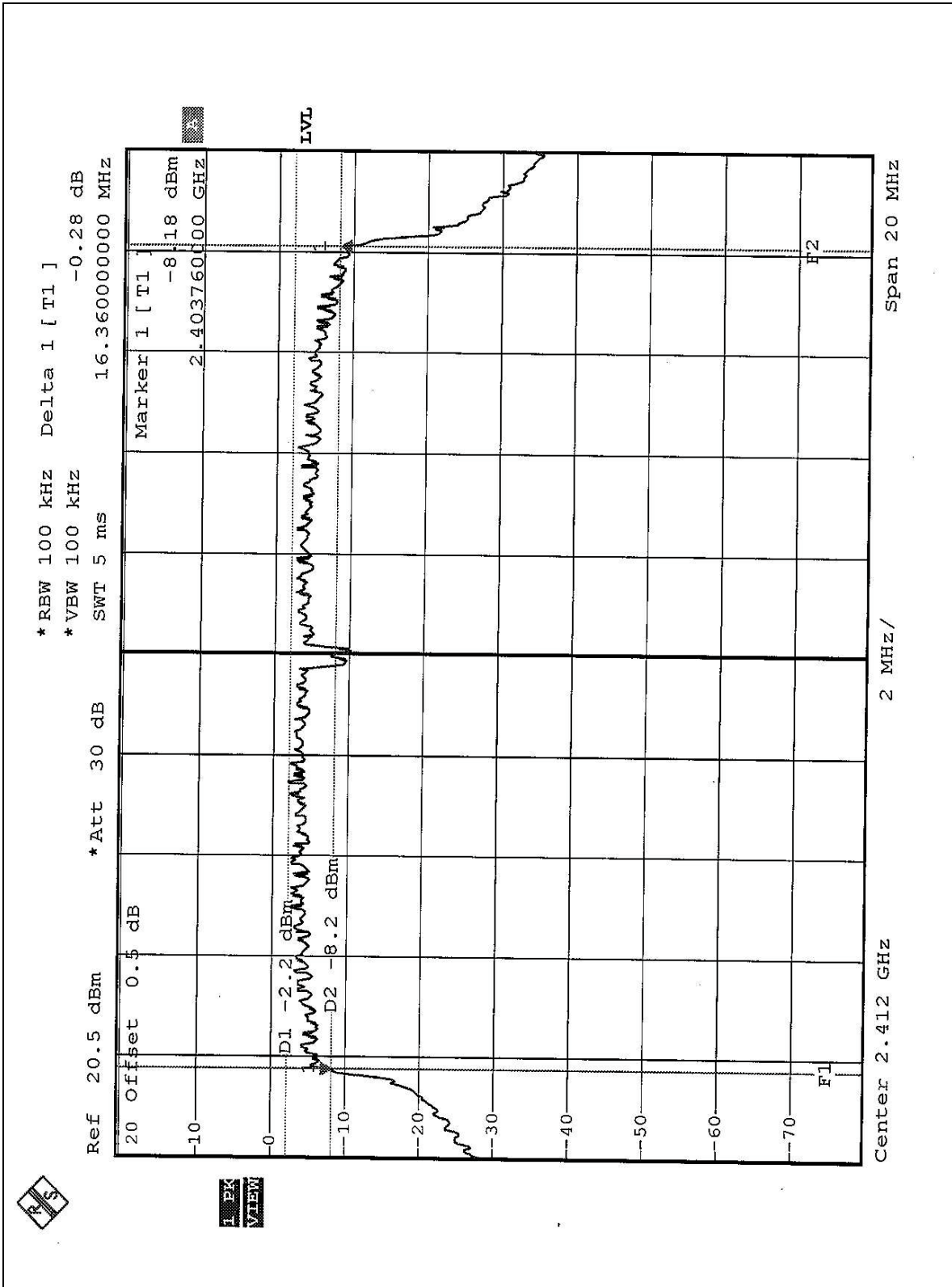


EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.36	0.5	PASS
6	2437	16.12	0.5	PASS
11	2462	16.08	0.5	PASS

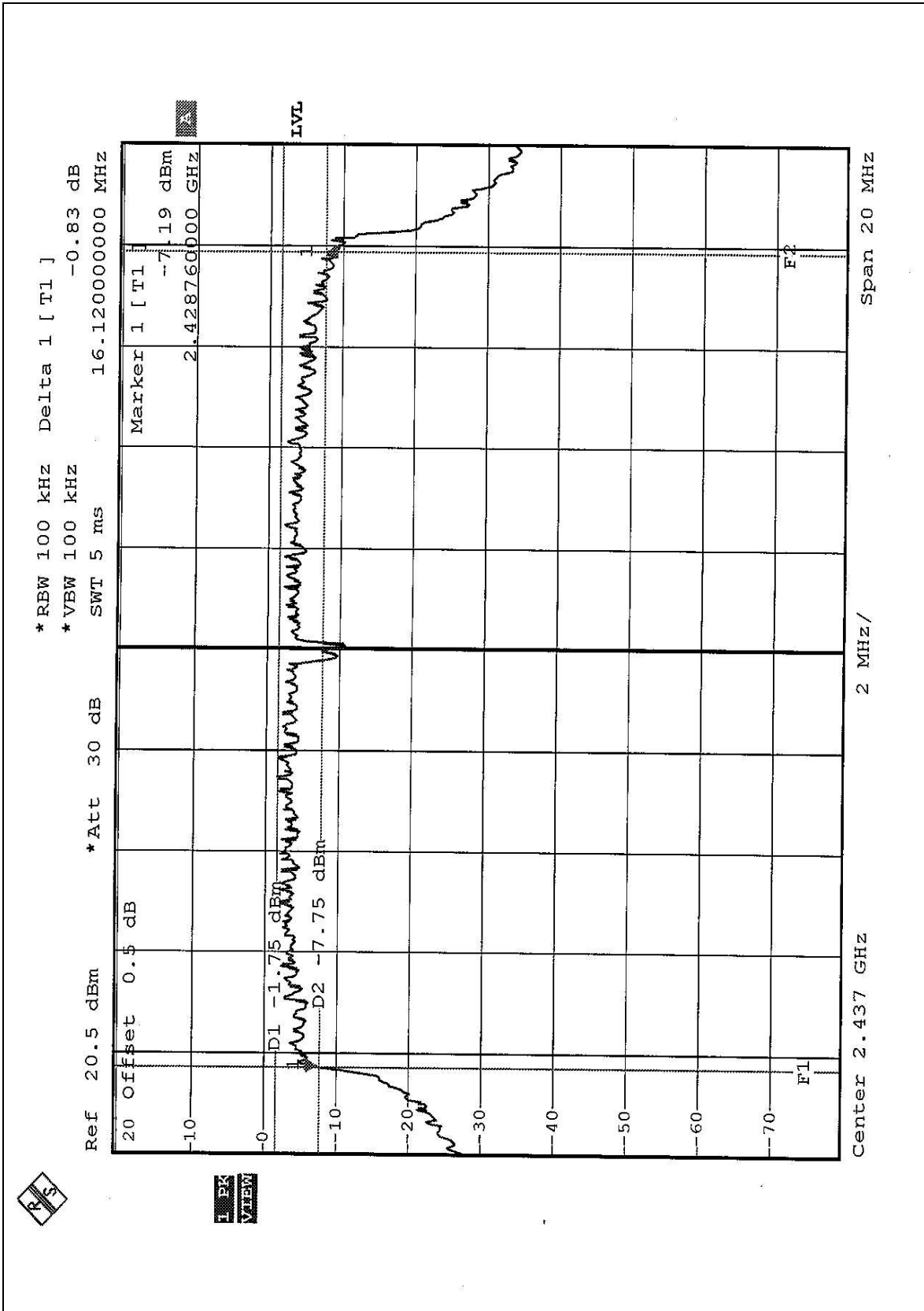


CH1



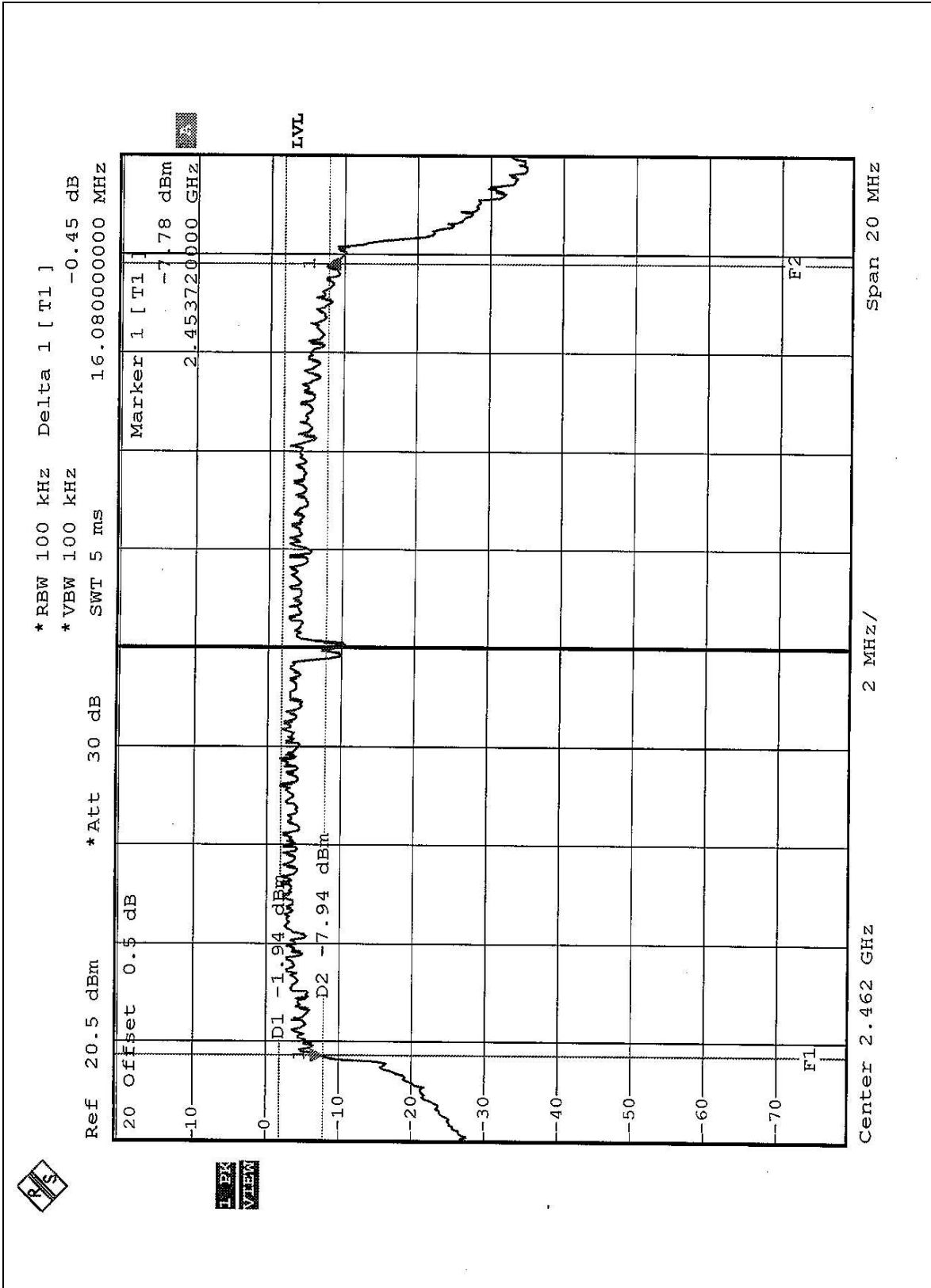


CH6





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 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 1012	C30657	Mar. 19, 2004
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 read 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 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

EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.23	30	PASS
6	2437	16.74	30	PASS
11	2462	16.28	30	PASS

EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.57	30	PASS
6	2437	15.64	30	PASS
11	2462	15.39	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.

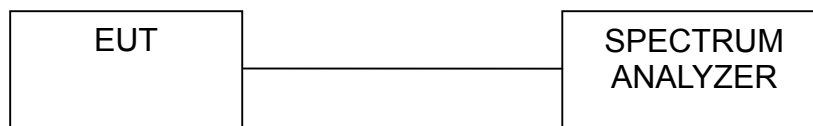
4.5.3 TEST PROCEDURE

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 3kHz RBW and 30kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6



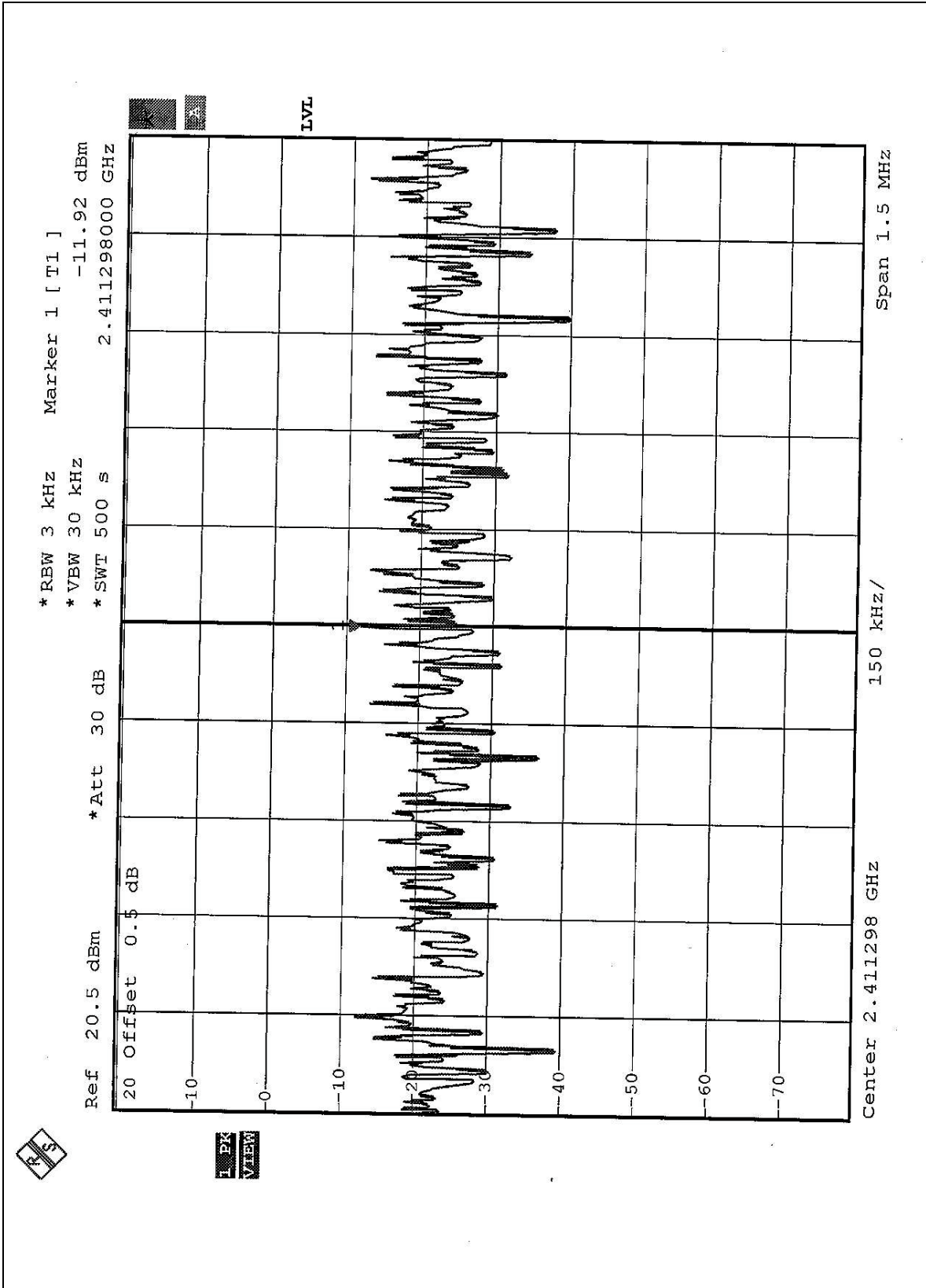
4.5.7 TEST RESULTS

EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	CCK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.92	8	PASS
6	2437	-10.16	8	PASS
11	2462	-10.71	8	PASS

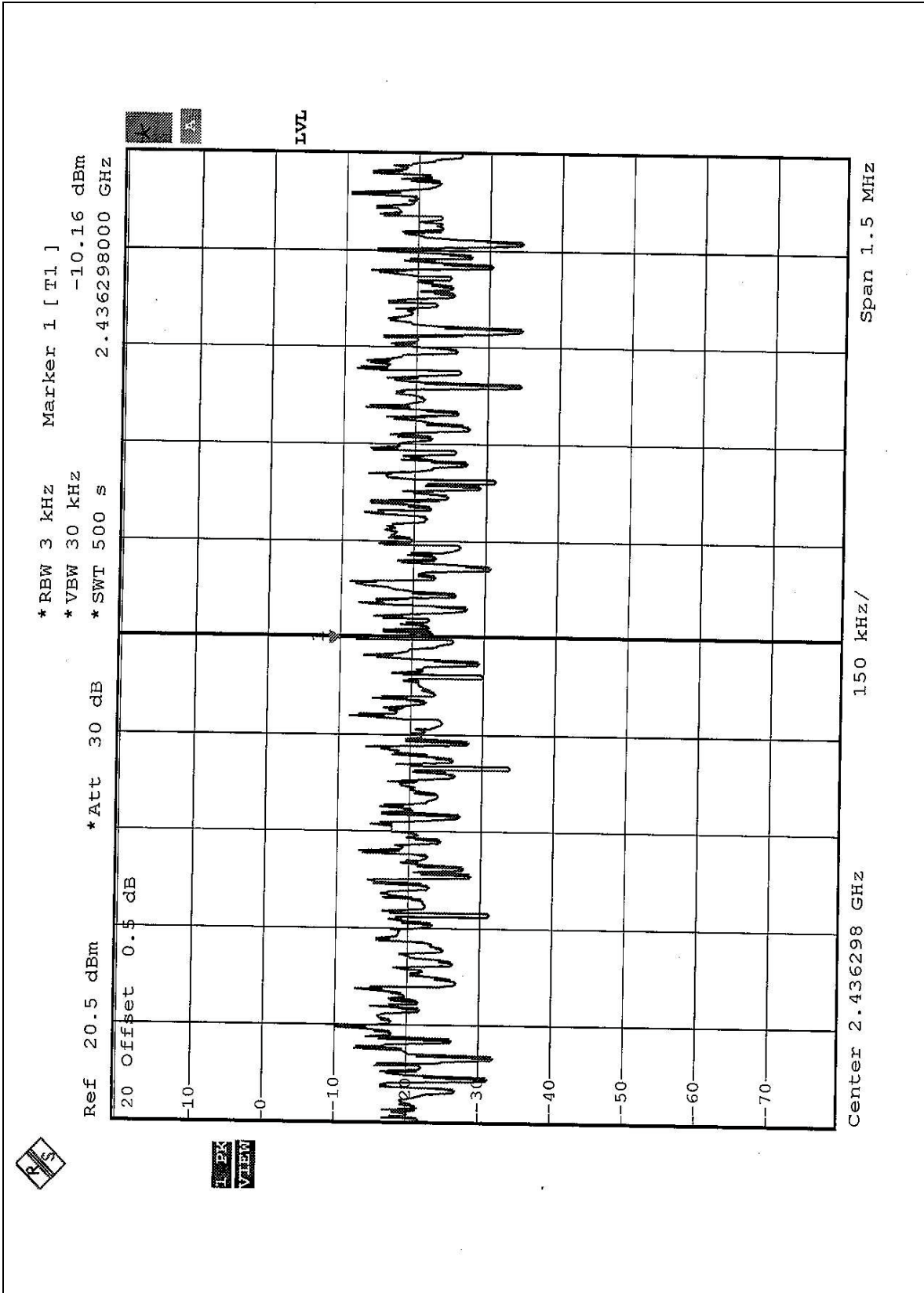


CH1



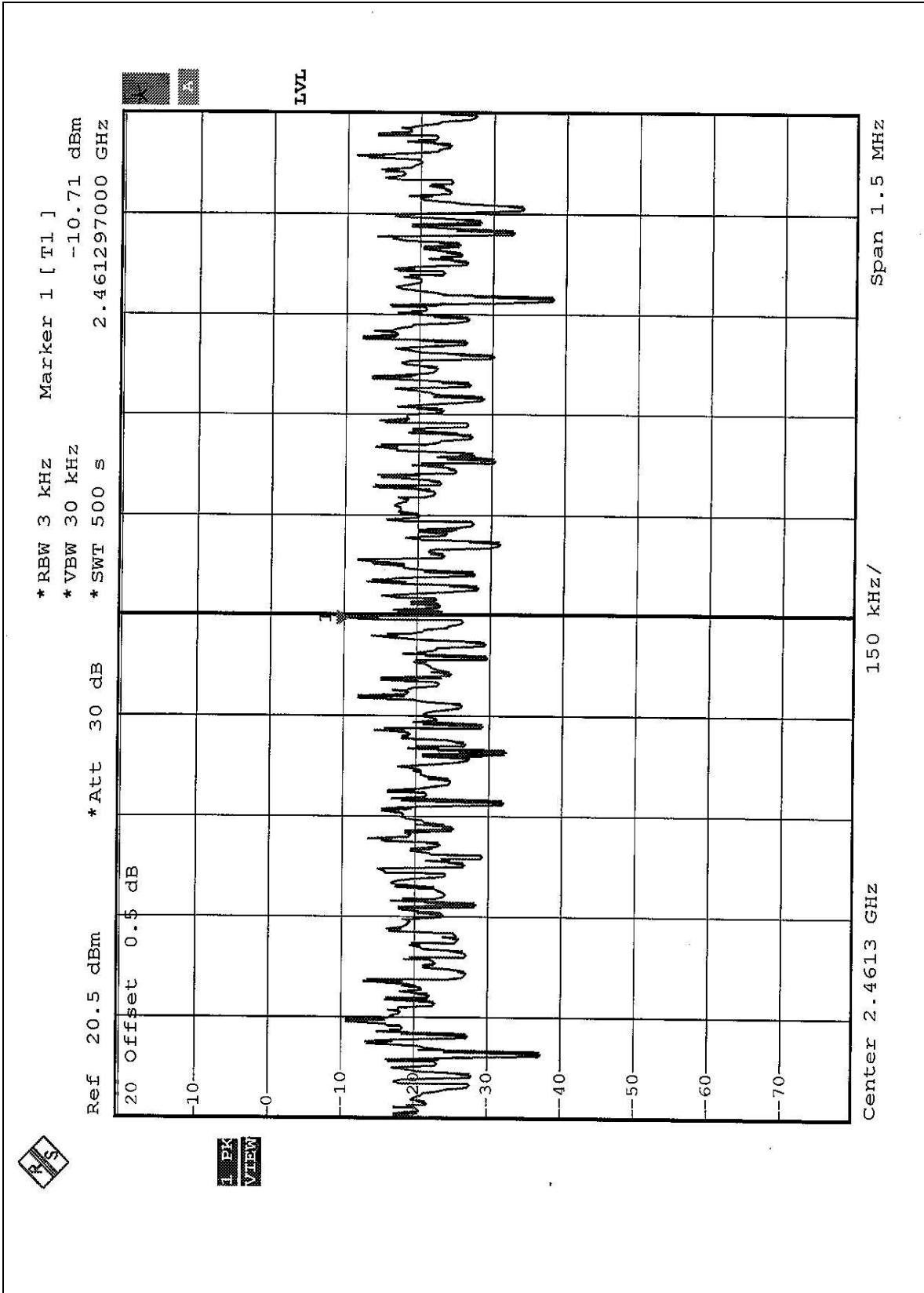


CH6





CH11



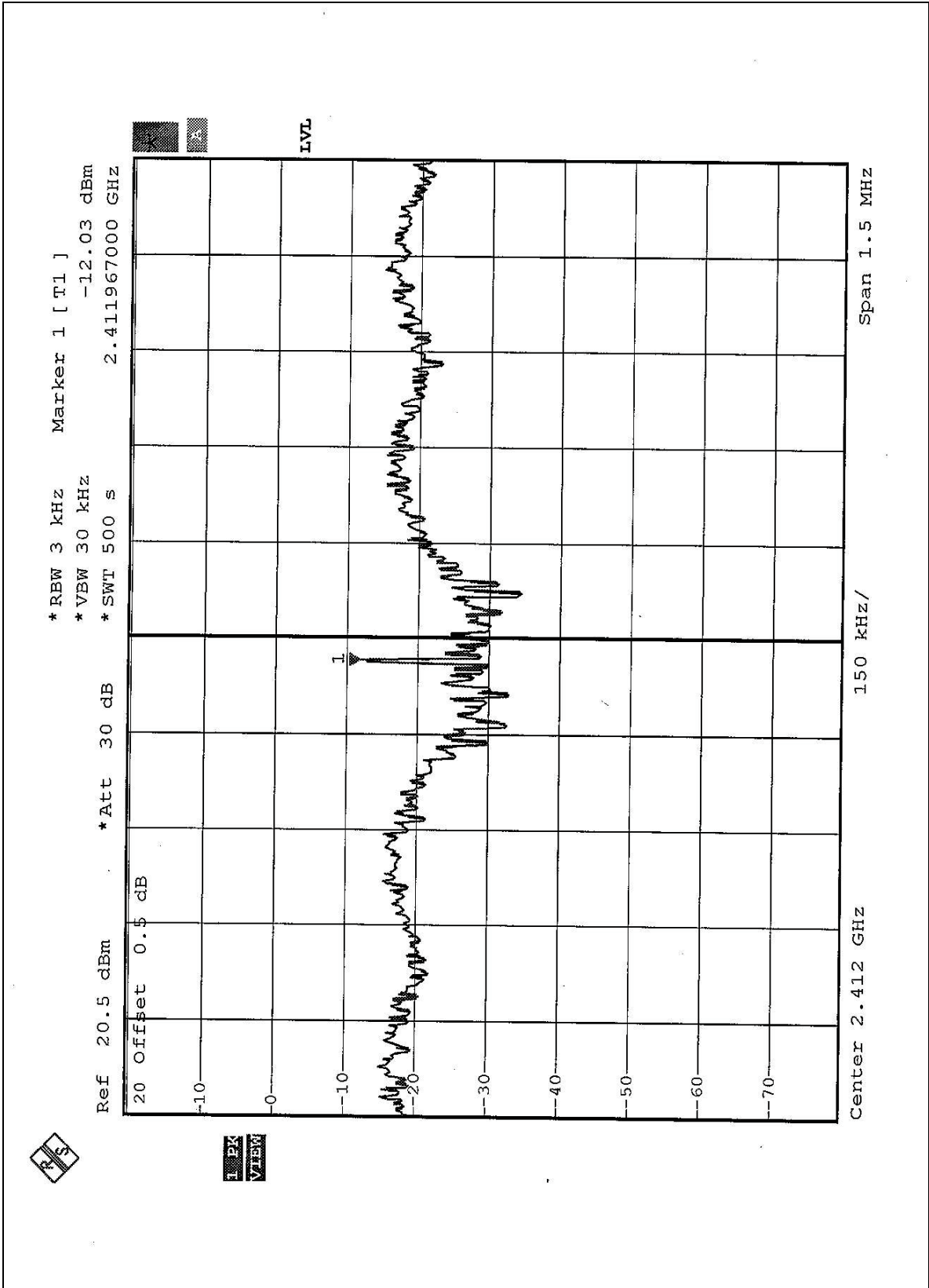


EUT	802.11g Wireless Access Point	MODEL	WL AP 2454 NM
		TEST MODE	OFDM
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 63%RH, 991hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-12.03	8	PASS
6	2437	-12.96	8	PASS
11	2462	-13.94	8	PASS

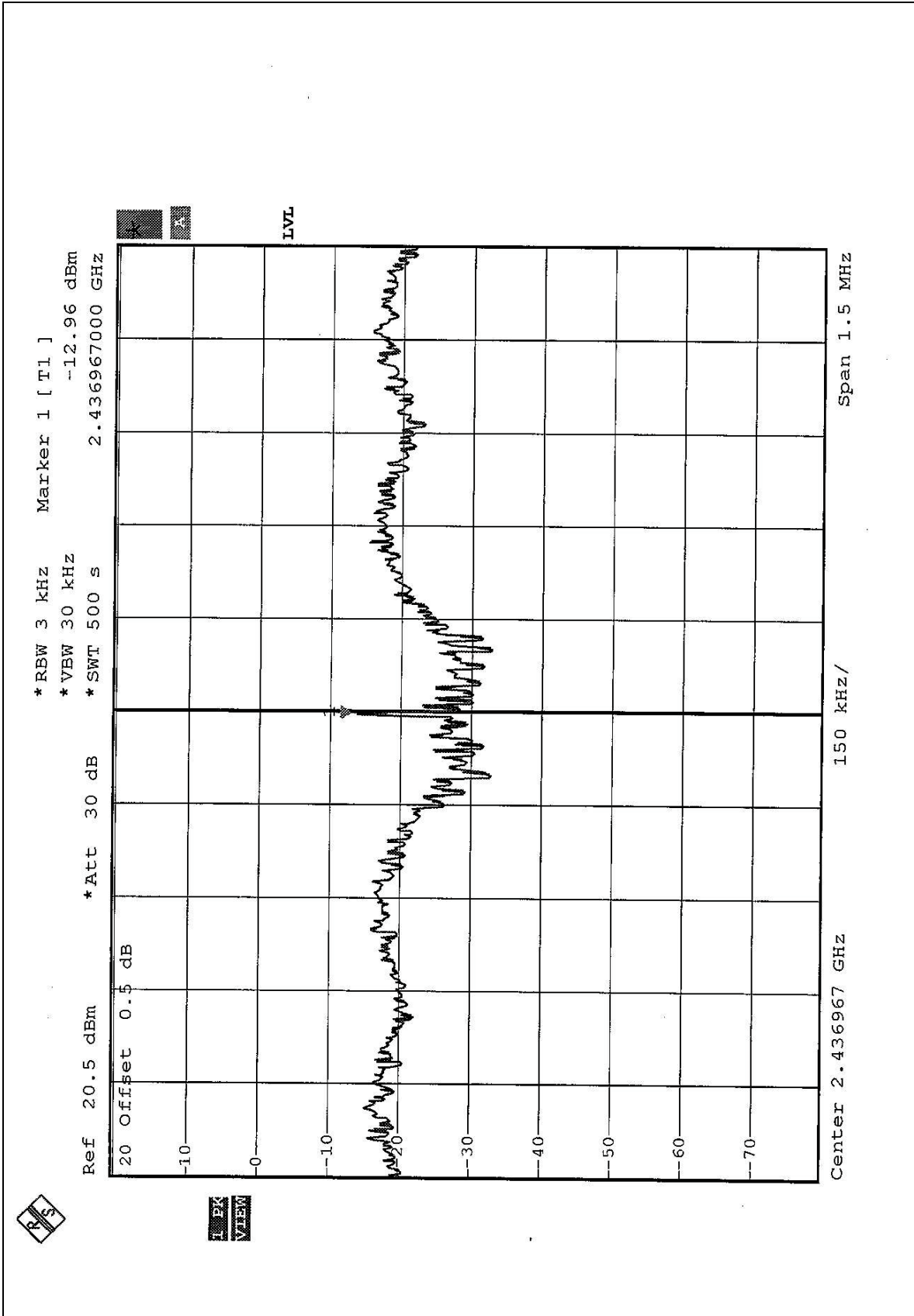


CH1



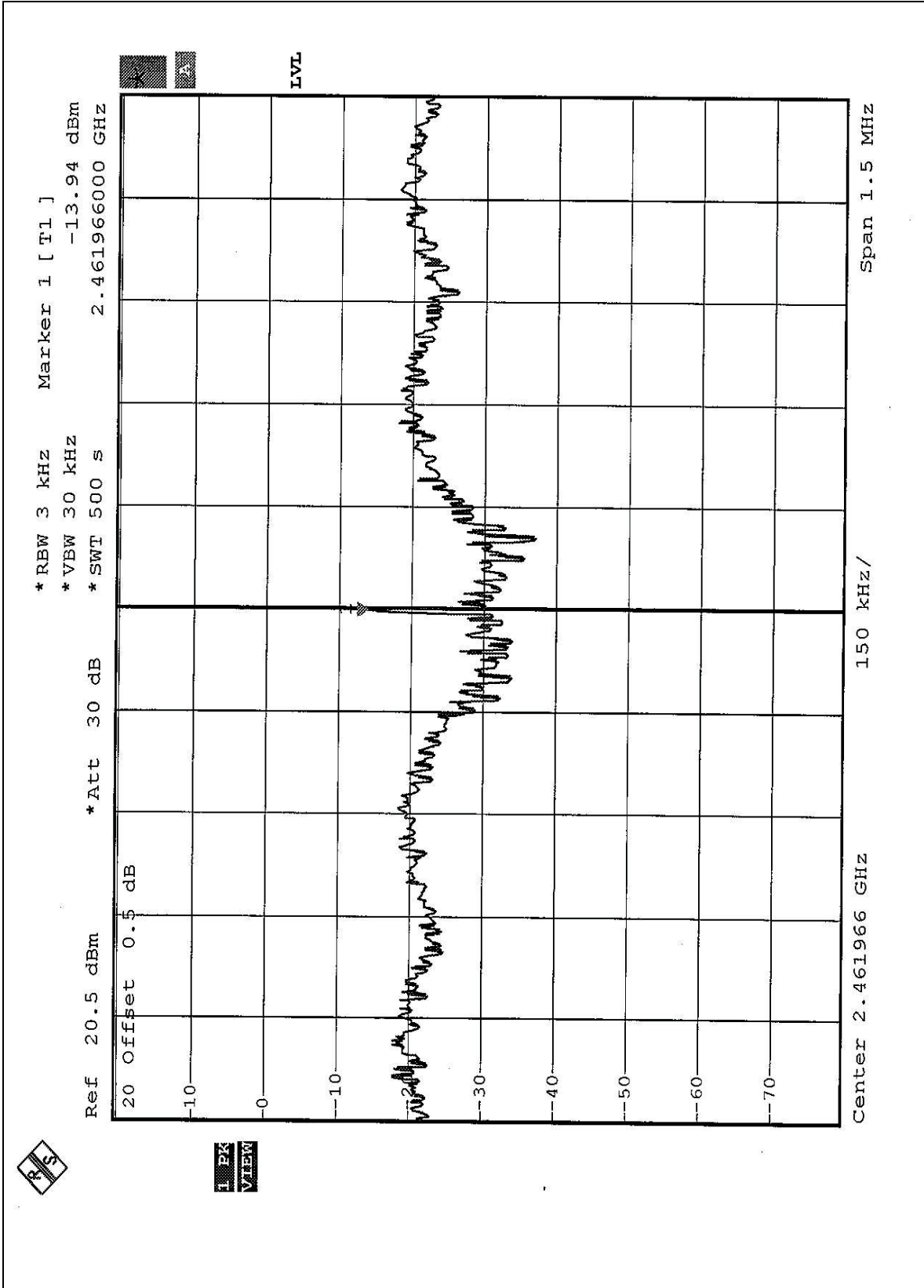


CH6





CH11





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, 2004

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

4.6.3 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 10Hz with suitable frequency span including 100MHz 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 (FOR CCK)

The spectrum plots are attached on the following 4 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE 1:

The band edge emission plot on the following 1-2 pages shows 51.56dB delta between carrier maximum power and local maximum emission in restrict band (2.3540GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 103.77dBuV/m, so the maximum field strength in restrict band is $103.77-51.56=52.21$ dBuV/m which is under 54dBuV/m limit.

NOTE 2:

The band edge emission plot on the following 3-4 pages shows 48.40dB delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 101.47dBuV/m, so the maximum field strength in restrict band is $101.47-48.40=53.07$ dBuV/m which is under 54dBuV/m limit.