

FCC TEST REPORT

REPORT NO.: RF920916R01
MODEL NO.: SL-3054AP3 Aries2
BRAND: SENAO
OEM MODEL NO.: NL-3054AP3 Aries2
OEM BRAND: EnGenius
RECEIVED: 16 September, 2003
TESTED: 03 Sep. 2003 ~ 17 Sep. 2003

APPLICANT: SENAO INTERNATIONAL CO., LTD.

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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



Lab Code: 200102-0

Table of Contents

1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS	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	11
4.1.7	TEST RESULTS	12
4.2	RADIATED EMISSION MEASUREMENT	18
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	18
4.2.2	TEST INSTRUMENTS	19
4.2.3	TEST PROCEDURES	20
4.2.4	DEVIATION FROM TEST STANDARD	20
4.2.5	TEST SETUP	21
4.2.6	EUT OPERATING CONDITIONS	21
4.2.7	TEST RESULTS	22
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	32
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	42
4.5	POWER SPECTRAL DENSITY MEASUREMENT	43
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	43
4.5.2	TEST INSTRUMENTS	43
4.5.3	TEST PROCEDURE	44
4.5.4	DEVIATION FROM TEST STANDARD	44
4.5.5	TEST SETUP	44
4.5.6	EUT OPERATING CONDITIONS	44
4.5.7	TEST RESULTS	45
4.6	BAND EDGES MEASUREMENT	53
4.6.1	LIMITS OF BAND EDGES MEASUREMENT	53
4.6.2	TEST INSTRUMENTS	53
4.6.3	TEST PROCEDURE	53
4.6.4	DEVIATION FROM TEST STANDARD	53
4.6.5	EUT OPERATING CONDITION	54
4.6.6	TEST RESULTS	54
4.7	ANTENNA REQUIREMENT	59
4.7.1	STANDARD APPLICABLE	59
4.7.2	ANTENNA CONNECTED CONSTRUCTION	59
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	60
6	INFORMATION ON THE TESTING LABORATORIES	62

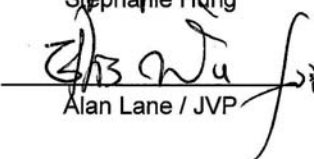


1 CERTIFICATION

PRODUCT : IEEE802.11g Wireless Access Point
MODEL NO.: SL-3054AP3 Aries2
BRAND: SENA
OEM MODEL NO.: NL-3054AP3 Aries2
OEM BRAND: EnGenius
APPLICANT : SENA INTERNATIONAL CO., LTD.
TEST ITEM: ENGINEERING SAMPLE
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247),
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from 03 Sep. 2003 to 17 Sep. 2003. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

PREPARED BY:  , **DATE:** September 22, 2003
Stephanie Hung

APPROVED BY:  **DATE:** September 22, 2003
Alan Lane / JVP

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -19.41dB at 0.197MHz
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 -2.40dB at 200.01MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	IEEE802.11g Wireless Access Point
MODEL NO.	SL-3054AP3 Aries2
BRAND	SENAO
OEM MODEL NO.	NL-3054AP3 Aries2
OEM BRAND	EnGenius
POWER SUPPLY	12VDC from power adapter
MODULATION TYPE	BPSK, QPSK, CCK, 16QAM, 64QAM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	Up to 54Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	19.75dBm
ANTENNA TYPE	Dipole antenna (Antenna gain: 2.0dBi)
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. The following adapter is provided to this EUT:

BRAND:	NA
MODEL:	AM-121000
INPUT:	120V ac, 60Hz, 20W
OUTPUT:	12V, 1000mA

2. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. Model NL-3054AP3 Aries2 is identical to Model SL-3054AP3 Aries2, except for model designation and brand name.

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

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

NOTE:

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

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a IEEE802.11g Wireless Access Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

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

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

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



3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	COMPAQ	N800C	470048-515	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).

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. 20, 2004
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 18, 2003
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 18, 2003
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 18, 2003
ROHDE & SCHWARZ 4-wire ISN	ENY41	837032/016	Nov. 29 2003
ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/016	Nov. 29 2003
Software	Cond-V2M3	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	May. 01, 2004
SUHNTER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010770	Mar. 24, 2004
SUHNTER 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.



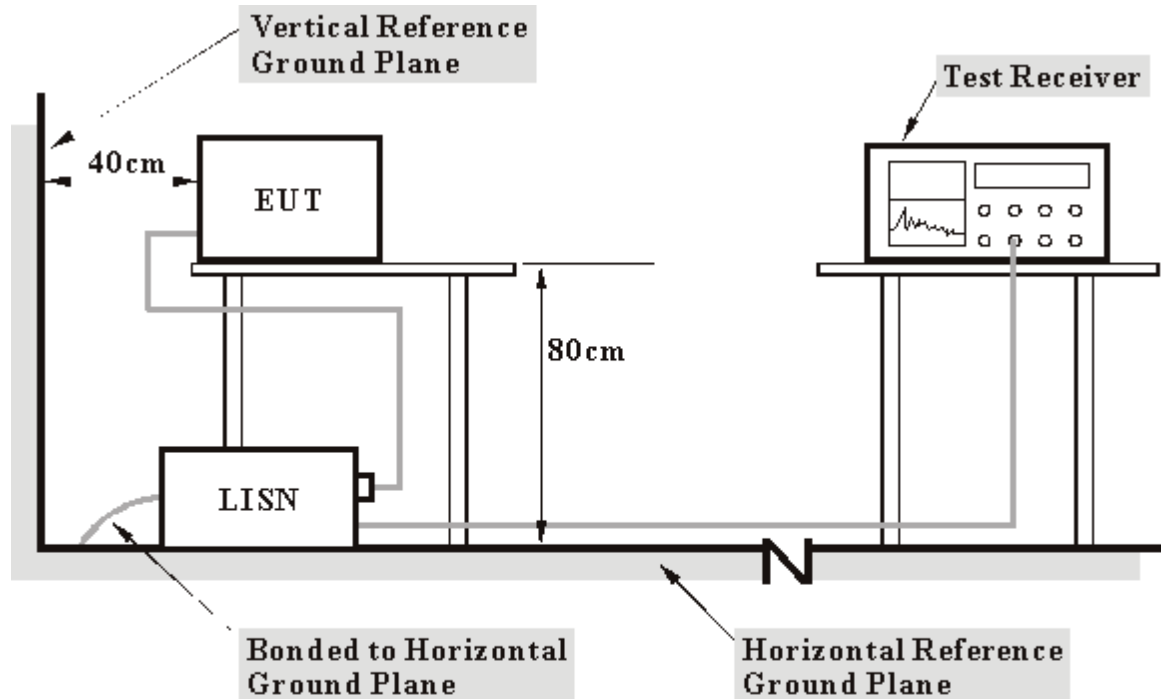
4.1.3 TEST PROCEDURES

- 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 over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

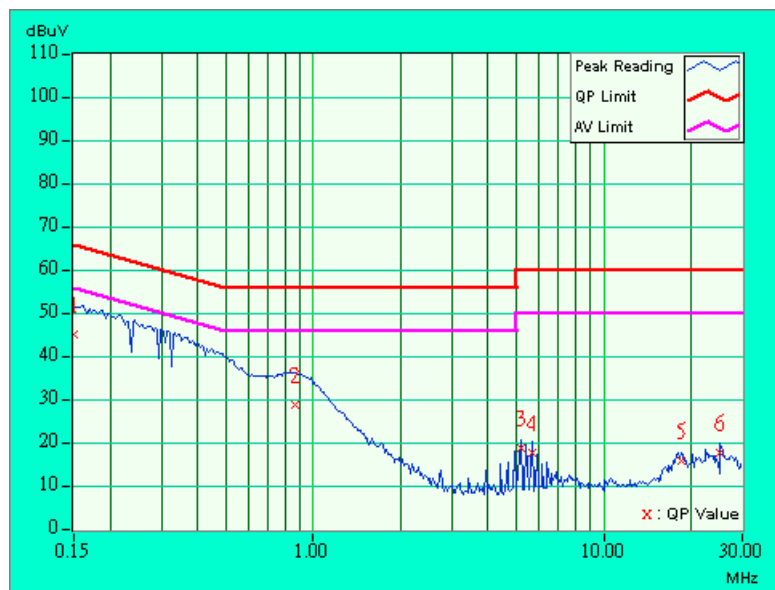
- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner runs a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via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

4.1.7 TEST RESULTS

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY: Jamison Chan	

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	0.158	0.06	43.48	-	43.54	-	65.58	55.58	-22.04	-
2	0.216	0.06	42.52	-	42.58	-	62.96	52.96	-20.38	-
3	0.298	0.06	37.76	-	37.82	-	60.29	50.29	-22.47	-
4	0.884	0.14	27.68	-	27.82	-	56.00	46.00	-28.18	-
5	5.414	0.27	18.06	-	18.33	-	60.00	50.00	-41.67	-
6	18.188	0.61	19.68	-	20.29	-	60.00	50.00	-39.71	-

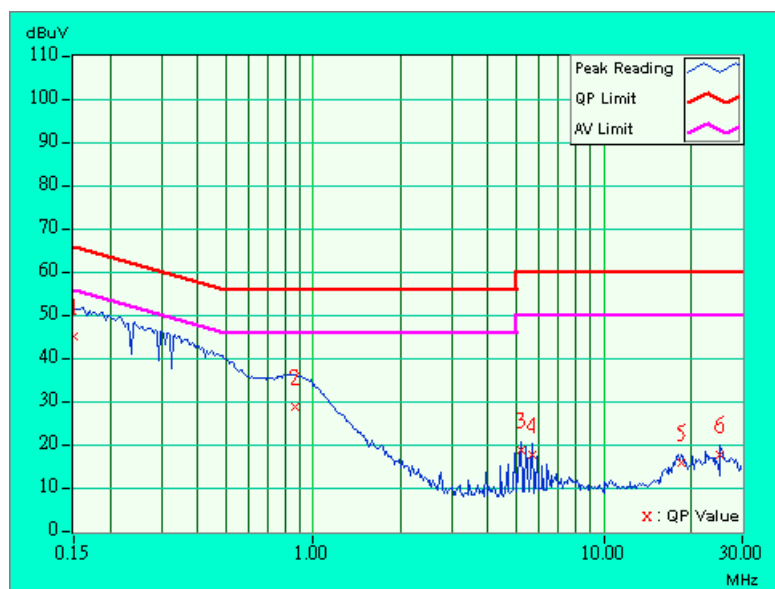
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 1	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY: Jamison Chan	

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	0.150	0.05	44.56	-	44.61	-	66.00	56.00	-21.39	-
2	0.861	0.13	28.06	-	28.19	-	56.00	46.00	-27.81	-
3	5.164	0.24	18.17	-	18.41	-	60.00	50.00	-41.59	-
4	5.656	0.26	16.88	-	17.14	-	60.00	50.00	-42.86	-
5	18.430	0.50	15.21	-	15.71	-	60.00	50.00	-44.29	-
6	25.230	0.73	17.02	-	17.75	-	60.00	50.00	-42.25	-

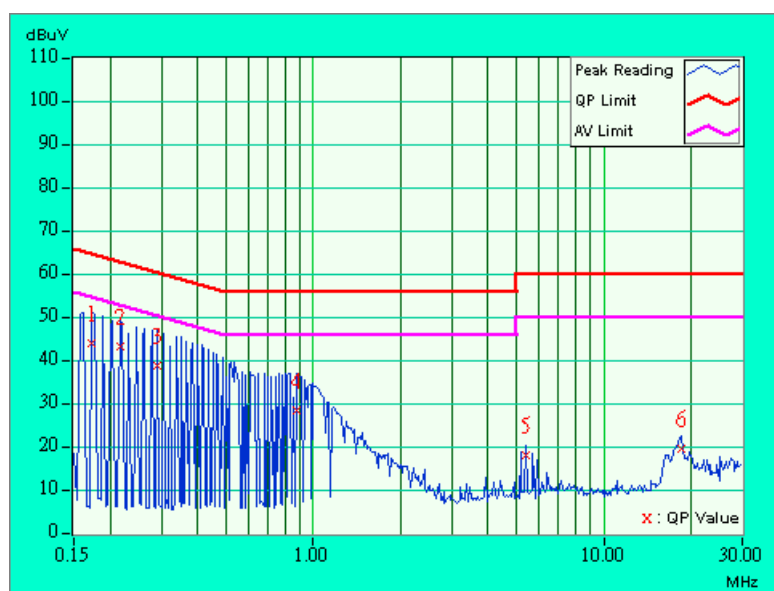
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY:	Jamison Chan

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	0.173	0.06	43.50	-	43.56	-	64.79	54.79	-21.24	-
2	0.216	0.06	42.72	-	42.78	-	62.96	52.96	-20.18	-
3	0.291	0.06	38.19	-	38.25	-	60.51	50.51	-22.26	-
4	0.877	0.14	27.90	-	28.04	-	56.00	46.00	-27.96	-
5	5.414	0.27	17.58	-	17.85	-	60.00	50.00	-42.15	-
6	18.551	0.62	19.19	-	19.81	-	60.00	50.00	-40.19	-

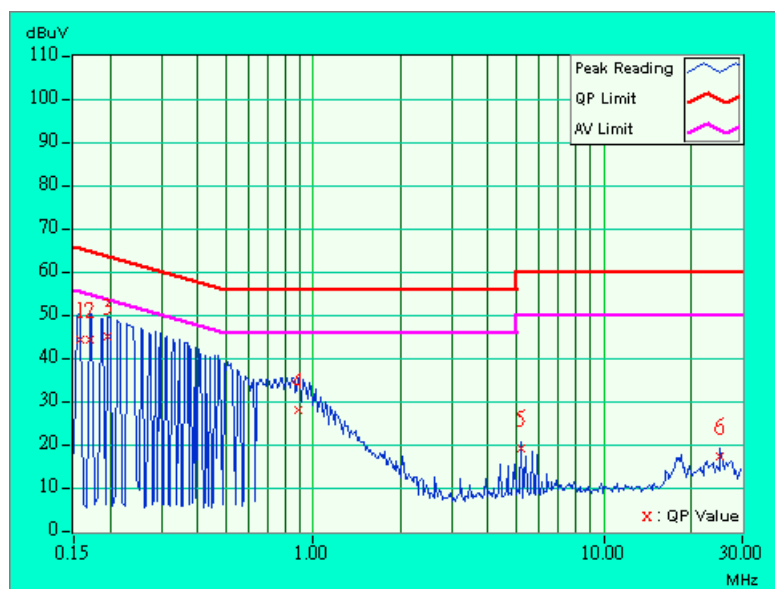
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 6	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY: Jamison Chan	

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	0.158	0.05	43.69	-	43.74	-	65.58	55.58	-21.84	-
2	0.170	0.05	43.67	-	43.72	-	64.98	54.98	-21.26	-
3	0.197	0.05	44.28	-	44.33	-	63.74	53.74	-19.41	-
4	0.888	0.14	27.35	-	27.49	-	56.00	46.00	-28.51	-
5	5.168	0.24	18.45	-	18.69	-	60.00	50.00	-41.31	-
6	25.230	0.73	16.73	-	17.46	-	60.00	50.00	-42.54	-

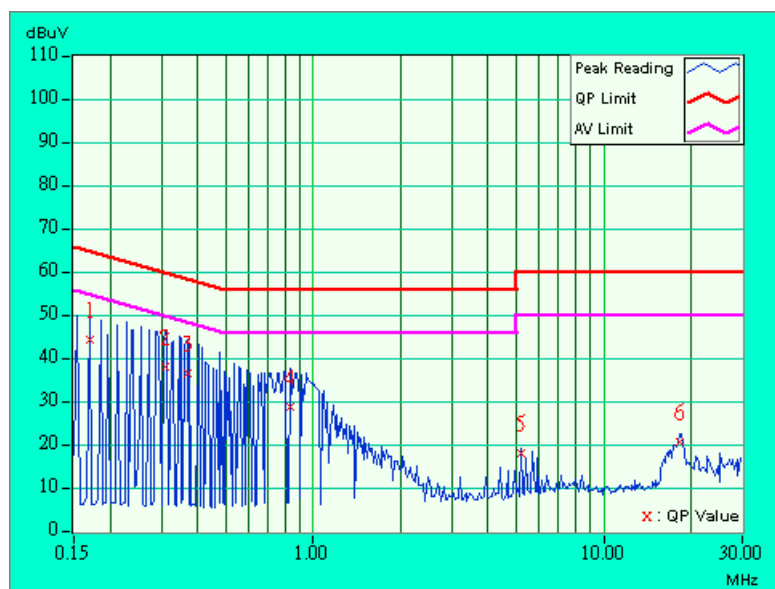
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25eg. C, 65%RH, 991hPa	TESTED BY: Jamison Chan	

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	43.71	-	43.77	-	64.98	54.98	-21.22	-
2	0.310	0.06	37.55	-	37.61	-	59.97	49.97	-22.36	-
3	0.369	0.06	35.99	-	36.05	-	58.53	48.53	-22.48	-
4	0.830	0.13	28.39	-	28.52	-	56.00	46.00	-27.48	-
5	5.172	0.26	17.49	-	17.75	-	60.00	50.00	-42.25	-
6	18.309	0.61	20.10	-	20.71	-	60.00	50.00	-39.29	-

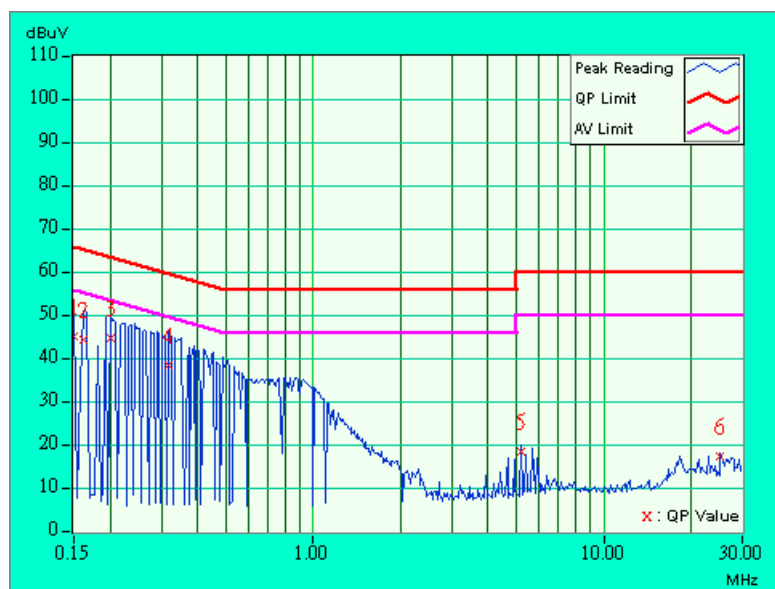
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
MODE	Channel 11	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY: Jamison Chan	

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	0.150	0.05	44.36	-	44.41	-	66.00	56.00	-21.59	-
2	0.162	0.05	43.73	-	43.78	-	65.38	55.38	-21.60	-
3	0.201	0.05	44.08	-	44.13	-	63.58	53.58	-19.45	-
4	0.318	0.05	37.72	-	37.77	-	59.76	49.76	-21.99	-
5	5.168	0.24	17.87	-	18.11	-	60.00	50.00	-41.89	-
6	25.230	0.73	16.67	-	17.40	-	60.00	50.00	-42.60	-

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



4.2 Radiated Emission Measurement

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
*HP Spectrum Analyzer	8590L	3544A01176	Jun. 10, 2004
*HP Preamplifier	8447D	2944A08485	May. 01, 2004
* HP Preamplifier	8449B	3008A01201	Dec. 01, 2003
* HP Preamplifier	8449B	3008A01292	Aug. 13, 2004
ROHDE & SCHWARZ TEST RECEIVER	ESI7	838496/016	Feb. 23, 2004
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Feb. 13, 2004
SCHAFFNER Tunable Dipole Antenna	VHBA 9123	459	Nov. 22, 2003
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
* CHASE BILOG Antenna	CBL6112A	2221	July 26, 2004
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	Jun 30, 2004
* EMCO Horn Antenna	3115	9312-4192	Mar. 23 2004
* EMCO Turn Table	1060	1115	NA
* CHANCE Tower	CM-AT40	CM-A010	NA
* Software	ADT_Radiated_V5.14	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Jan. 05. 2004
* TIMES RF cable	LMR-600	CABLE-ST5-01	Jan. 05. 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. 5.
5. The VCCI Site Registration No. is R-1039.



4.2.3 TEST PROCEDURES

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

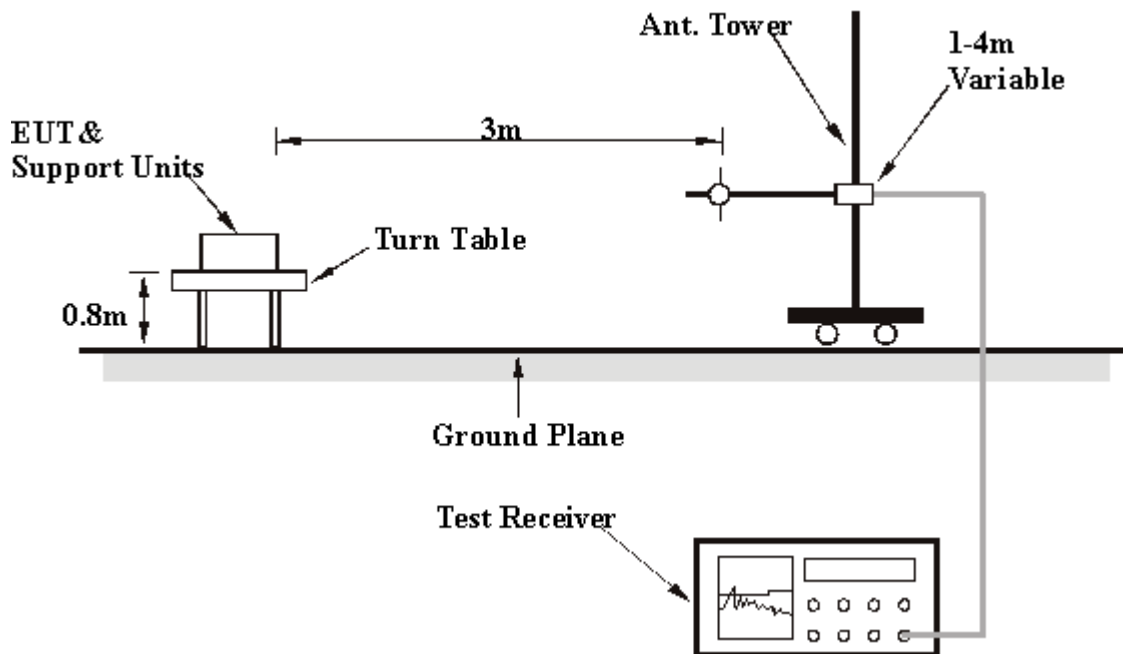
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000 MHz
MODE	CCK & OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Hardaway Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.02	33.2 QP	40.00	-6.80	1.21 H	212	20.80	12.40
2	110.02	32.3 QP	43.50	-11.20	1.93 H	287	20.00	12.30
3	175.01	30.2 QP	43.50	-13.30	1.50 H	40	19.60	10.50
4	200.03	36.0 QP	43.50	-7.50	1.64 H	140	25.20	10.80
5	220.01	33.0 QP	46.00	-13.00	1.39 H	63	21.10	11.90
6	225.03	36.6 QP	46.00	-9.40	1.89 H	316	24.40	12.20
7	250.03	40.2 QP	46.00	-5.80	1.66 H	108	26.60	13.60
8	300.04	39.6 QP	46.00	-6.40	1.61 H	114	23.90	15.70
9	330.02	38.0 QP	46.00	-8.00	1.51 H	41	21.90	16.10
10	400.02	33.9 QP	46.00	-12.10	1.17 H	3	15.70	18.20
11	500.05	35.5 QP	46.00	-10.50	1.88 H	356	15.30	20.10
12	550.04	35.2 QP	46.00	-10.80	1.27 H	3	14.30	20.80
13	637.77	29.5 QP	46.00	-16.50	1.42 H	100	7.10	22.40
14	720.20	27.7 QP	46.00	-18.30	1.35 H	46	4.50	23.20
15	760.00	31.6 QP	46.00	-14.40	1.62 H	284	7.80	23.80
16	880.03	36.7 QP	46.00	-9.30	1.17 H	331	12.30	24.40
17	920.03	33.1 QP	46.00	-12.90	1.80 H	100	8.50	24.60

- 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	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000 MHz
MODE	CCK & OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Hardaway Lee		

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	80.00	33.4 QP	40.00	-6.60	1.37 V	195	25.00	8.30
2	110.01	40.0 QP	43.50	-3.50	1.56 V	65	27.70	12.30
3	120.00	34.5 QP	43.50	-9.00	1.12 V	133	21.40	13.10
4	124.95	38.5 QP	43.50	-5.00	1.48 V	345	25.70	12.80
5	160.01	35.4 QP	43.50	-8.10	1.85 V	17	24.70	10.70
6	175.01	34.7 QP	43.50	-8.80	1.13 V	146	24.20	10.50
7	200.01	41.1 QP	43.50	-2.40	1.00 V	45	30.30	10.80
8	220.02	35.0 QP	46.00	-11.00	1.07 V	252	23.10	11.90
9	225.01	33.5 QP	46.00	-12.50	1.33 V	171	21.30	12.20
10	240.01	35.4 QP	46.00	-10.60	1.04 V	177	22.30	13.00
11	250.01	38.6 QP	46.00	-7.40	1.00 V	82	25.00	13.60
12	320.02	41.3 QP	46.00	-4.70	1.77 V	145	25.40	16.00
13	330.10	32.6 QP	46.00	-13.40	1.08 V	154	16.50	16.10
14	400.02	41.8 QP	46.00	-4.20	1.05 V	305	23.50	18.20
15	560.03	42.7 QP	46.00	-3.30	1.63 V	257	21.60	21.10
16	640.03	40.2 QP	46.00	-5.80	1.03 V	45	17.80	22.40
17	680.03	38.5 QP	46.00	-7.50	1.78 V	135	15.90	22.60
18	760.02	35.9 QP	46.00	-10.10	1.60 V	271	12.10	23.80
19	840.02	38.9 QP	46.00	-7.10	1.60 V	48	14.70	24.20

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	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1000 MHz
MODE	CCK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	45.0 PK	74.00	-29.00	1.52 H	32	15.40	29.60
2	*2412.00	98.5 PK			1.52 H	32	68.80	29.70
2	*2412.00	90.2 AV			1.52 H	32	60.50	29.70
3	4824.00	56.7 PK	74.00	-17.30	1.88 H	308	21.40	35.30
3	4824.00	42.7 AV	54.00	-11.30	1.88 H	308	7.50	35.30

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.5 PK	74.00	-15.50	1.47 V	164	28.90	29.60
1	2390.00	47.3 AV	54.00	-6.70	1.47 V	164	17.70	29.60
2	*2412.00	112.0 PK			1.47 V	164	82.30	29.70
2	*2412.00	100.8 AV			1.47 V	164	71.10	29.70
3	4824.00	62.7 PK	74.00	-11.30	1.88 V	308	27.40	35.30
3	4824.00	44.3 AV	54.00	-9.70	1.88 V	308	9.00	35.30

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

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 6	FREQUENCY RANGE	Above 1000 MHz
MODE	CCK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

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	*2437.00	101.3 PK			1.65 H	244	71.60	29.70
1	*2437.00	92.6 AV			1.65 H	244	62.90	29.70
2	4874.00	60.8 PK	74.00	-13.20	1.65 H	244	25.30	35.50
2	4874.00	46.2 AV	54.00	-7.80	1.65 H	244	10.70	35.50

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	*2437.00	113.2 PK			1.13 V	168	83.50	29.70
1	*2437.00	105.2 AV			1.13 V	168	75.40	29.70
2	4874.00	63.3 PK	74.00	-10.70	1.54 V	28	27.90	35.50
2	4874.00	49.4 AV	54.00	-4.60	1.54 V	28	13.90	35.50
3	7310.00	55.6 PK	74.00	-18.40	1.64 V	128	14.30	41.30
3	7310.00	42.4 AV	54.00	-11.60	1.64 V	128	1.10	41.30

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

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 11	FREQUENCY RANGE	Above 1000 MHz
MODE	CCK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

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	*2462.00	94.8 PK			1.49 H	243	65.00	29.80
1	*2462.00	86.4 AV			1.49 H	243	56.60	29.80
2	2483.50	40.9 PK	74.00	-33.10	1.49 H	243	11.00	29.90
3	4924.00	57.0 PK	74.00	-17.00	1.32 H	243	21.30	35.70
3	4924.00	42.8 AV	54.00	-11.20	1.32 H	243	7.10	35.70

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	*2462.00	107.5 PK			1.72 V	132	77.70	29.80
1	*2462.00	99.4 AV			1.72 V	132	69.50	29.80
2	2483.50	53.6 PK	74.00	-20.40	1.72 V	132	23.70	29.90
2	2483.50	45.5 AV	54.00	-8.50	1.72 V	132	15.60	29.90
3	4924.00	59.4 PK	74.00	-14.60	1.72 V	132	23.80	35.70
3	4924.00	44.9 AV	54.00	-9.10	1.72 V	132	9.20	35.70

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

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1000 MHz
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

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	*2412.00	97.5 PK			1.53 V	160	67.90	29.70
1	*2412.00	87.7 AV			1.53 V	160	58.00	29.70
2	4824.00	56.0 PK	74.00	-18.00	2.12 V	111	20.80	35.30
2	4824.00	39.3 AV	54.00	-14.70	2.12 V	111	4.10	35.30

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	2390.00	58.3PK	74.00	-15.70	1.00 V	90	28.70	29.60
2	*2412.00	105.0 PK			1.00 V	90	75.40	29.70
2	*2412.00	94.7 AV			1.00 V	90	65.00	29.70
3	4824.00	56.5 PK	74.00	-17.50	1.81 V	11	21.30	35.30
3	4824.00	40.9 AV	54.00	-13.10	1.81 V	11	5.70	35.30

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

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 6	FREQUENCY RANGE	Above 1000 MHz
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

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	*2437.00	98.3 PK			1.65 H	99	68.50	29.70
1	*2437.00	86.8 AV			1.65 H	99	57.10	29.70
2	4874.00	61.4 PK	74.00	-12.60	2.24 H	205	25.90	35.50
2	4874.00	45.4 AV	54.00	-8.60	2.24 H	205	10.00	35.50

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	*2437.00	107.7 PK			1.70 V	328	78.00	29.70
1	*2437.00	97.2 AV			1.70 V	328	67.40	29.70
2	4869.00	63.5 PK	74.00	-10.50	2.20 V	237	28.00	35.40
2	4869.00	47.2 AV	54.00	-6.80	2.20 V	237	11.80	35.40
3	7306.00	57.5 PK	74.00	-16.50	1.71 V	114	16.20	41.30
3	7306.00	41.6 AV	54.00	-12.40	1.71 V	114	0.30	41.30

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

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
CHANNEL	Channel 11	FREQUENCY RANGE	Above 1000 MHz
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	30 deg. C, 60 % RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) / Average (AV)
TESTED BY	Hardaway Lee		

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	*2462.00	92.1 PK			1.35 H	159	62.30	29.80
1	*2462.00	82.1 AV			1.35 H	159	52.30	29.80
3	4924.00	55.5 PK	74.00	-18.50	1.47 H	164	19.80	35.70
3	4924.00	38.2 AV	54.00	-15.80	1.47 H	164	2.60	35.70

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	*2462.00	105.7 PK			1.53 V	160	75.80	29.80
1	*2462.00	96.5 AV			1.53 V	160	66.70	29.80
2	2483.50	59.1 PK	74.00	-14.90	1.53 V	160	29.30	29.90
2	2483.50	50.0 AV	54.00	-4.00	1.53 V	160	20.10	29.90
3	4924.00	59.4 PK	74.00	-14.60	2.11 V	54	23.80	35.70
3	4924.00	42.9 AV	54.00	-11.10	2.11 V	54	7.20	35.70

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

4.3 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	August 13, 2004

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

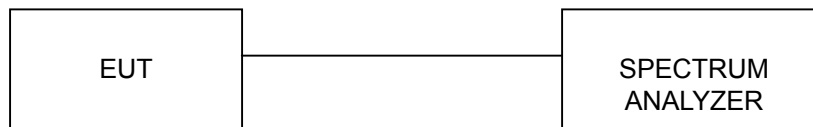
4.3.3 TEST PROCEDURE

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

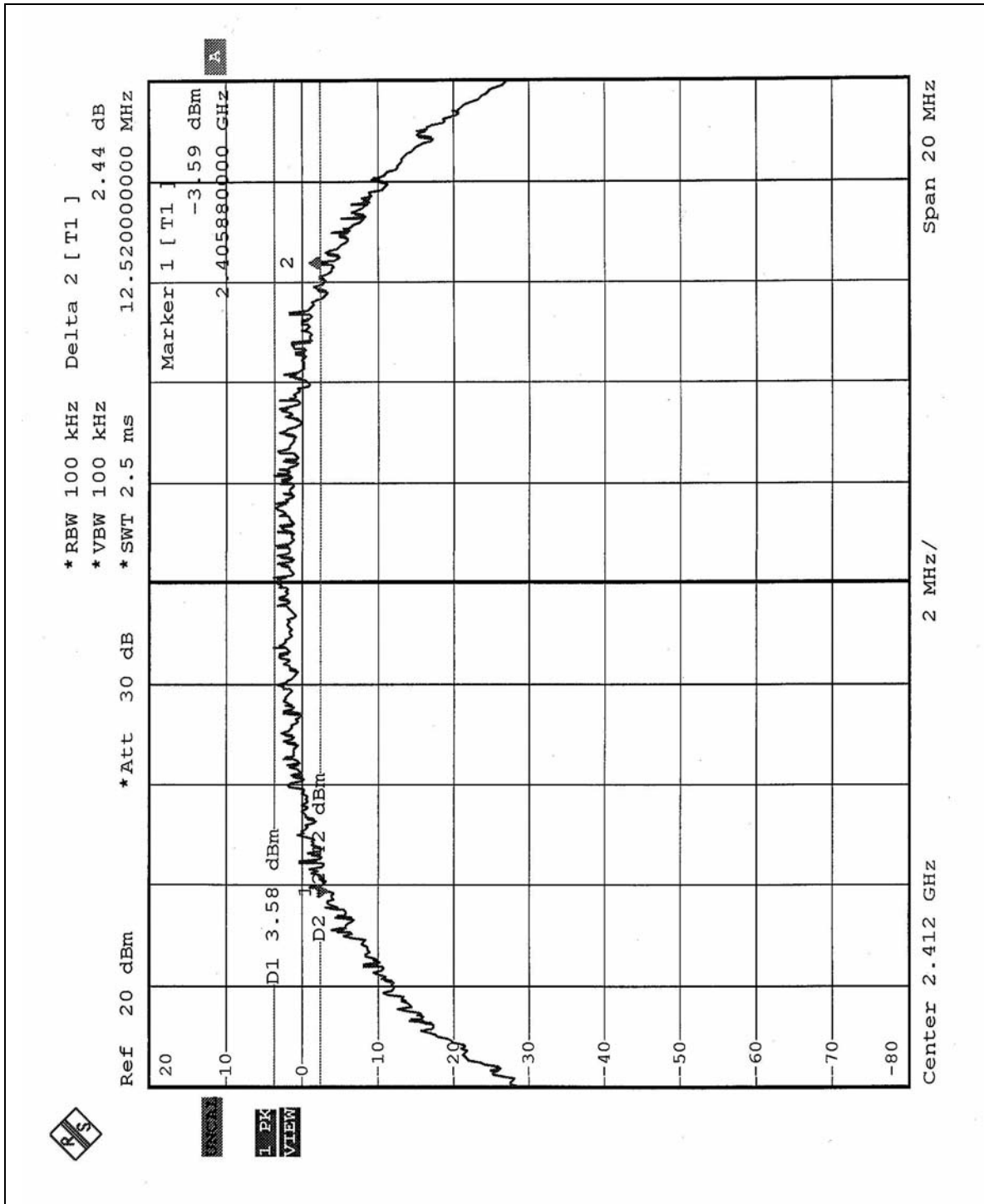
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 TEST RESULTS

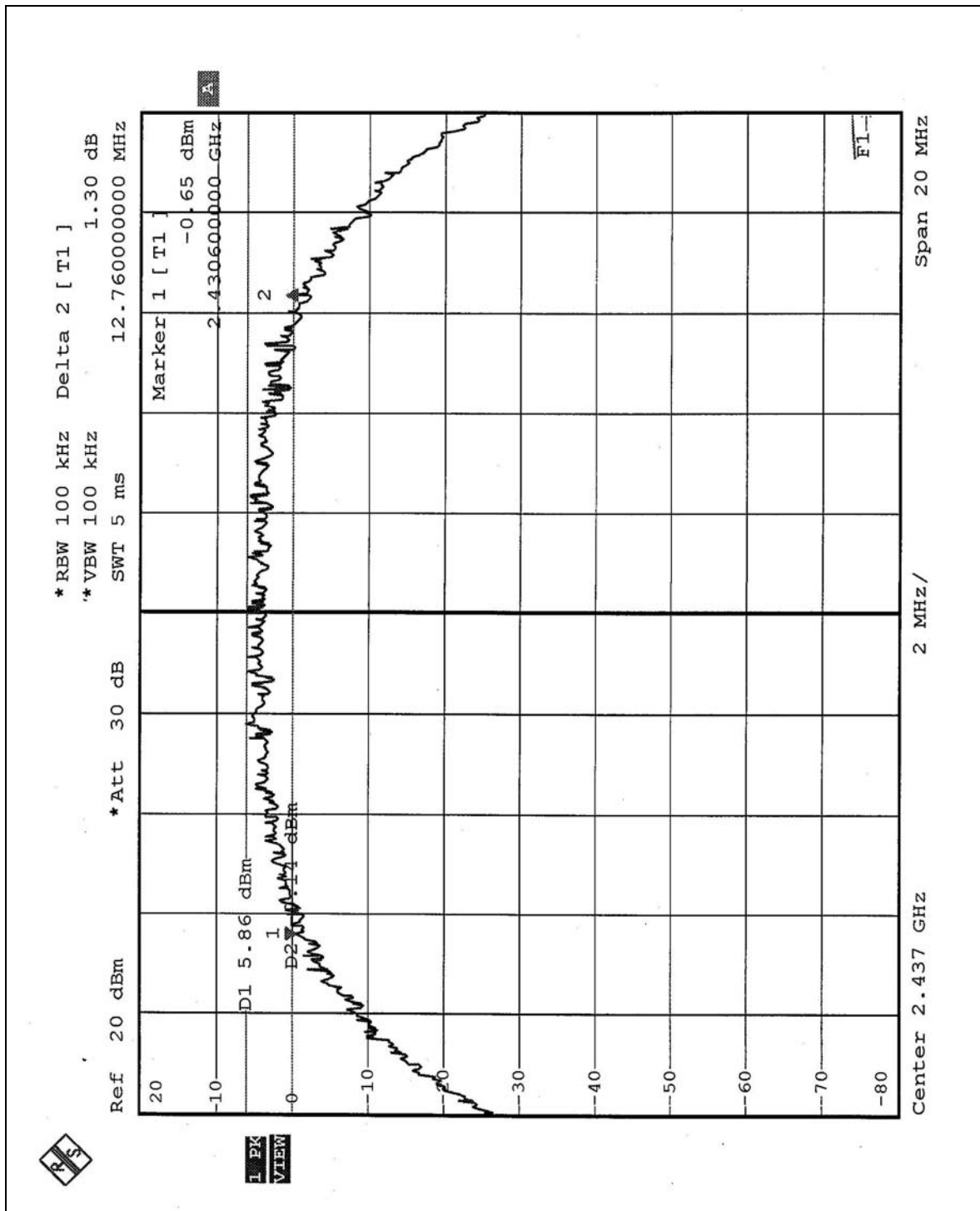
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INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28deg. C, 58%RH, 991hPa
MODE	CCK	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.52	0.5	PASS
6	2437	12.76	0.5	PASS
11	2462	11.88	0.5	PASS

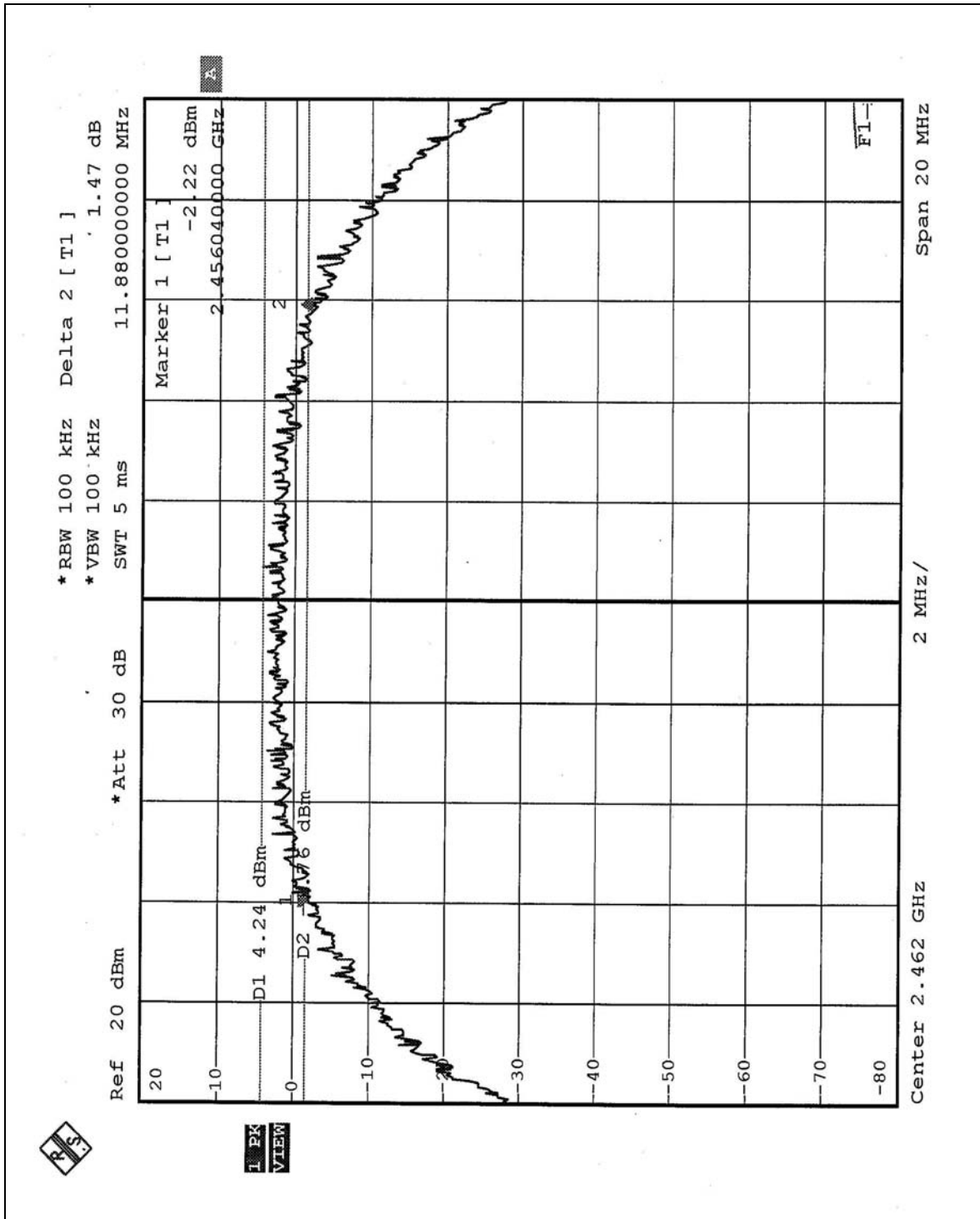
CH1



CH6



CH11

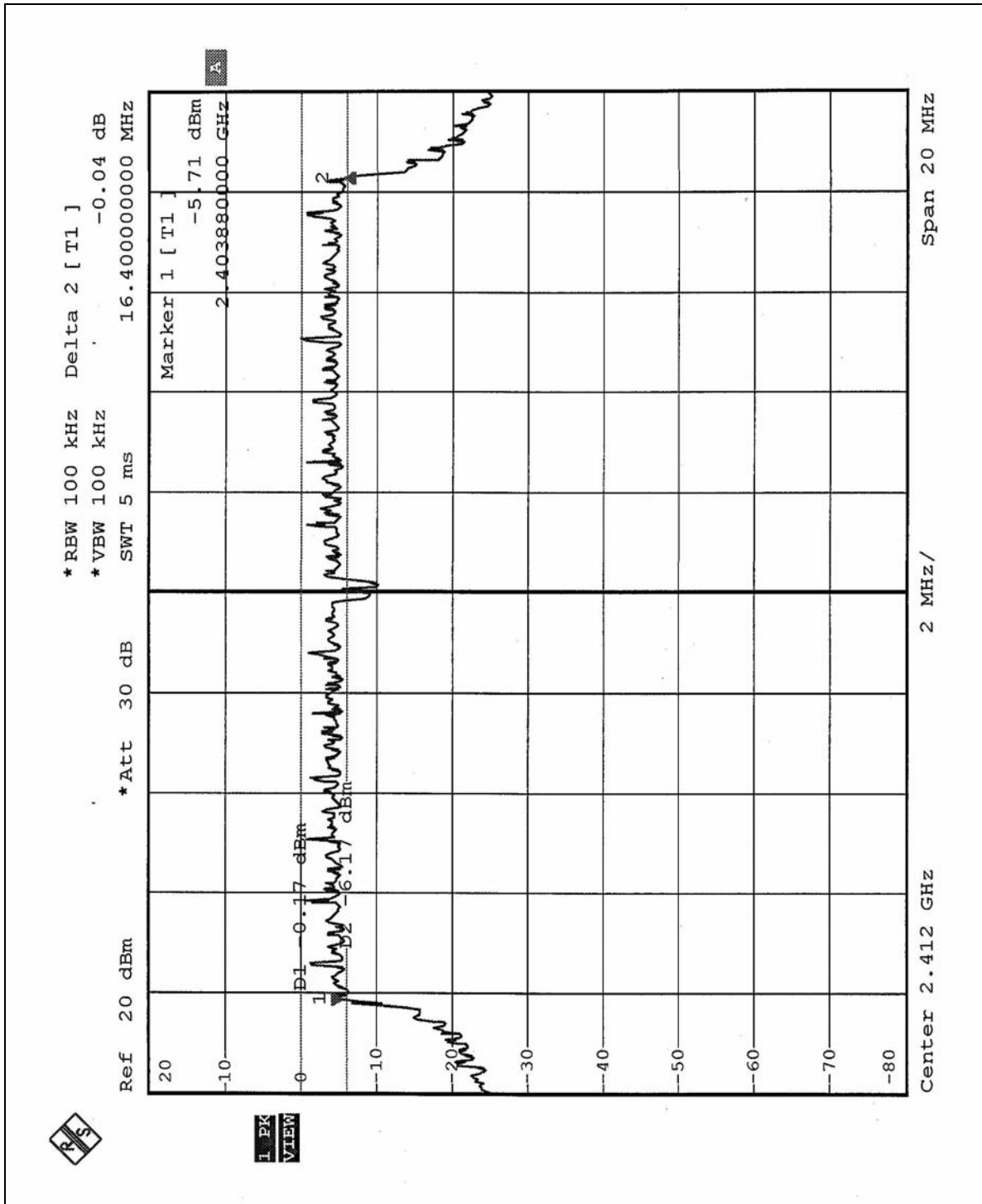




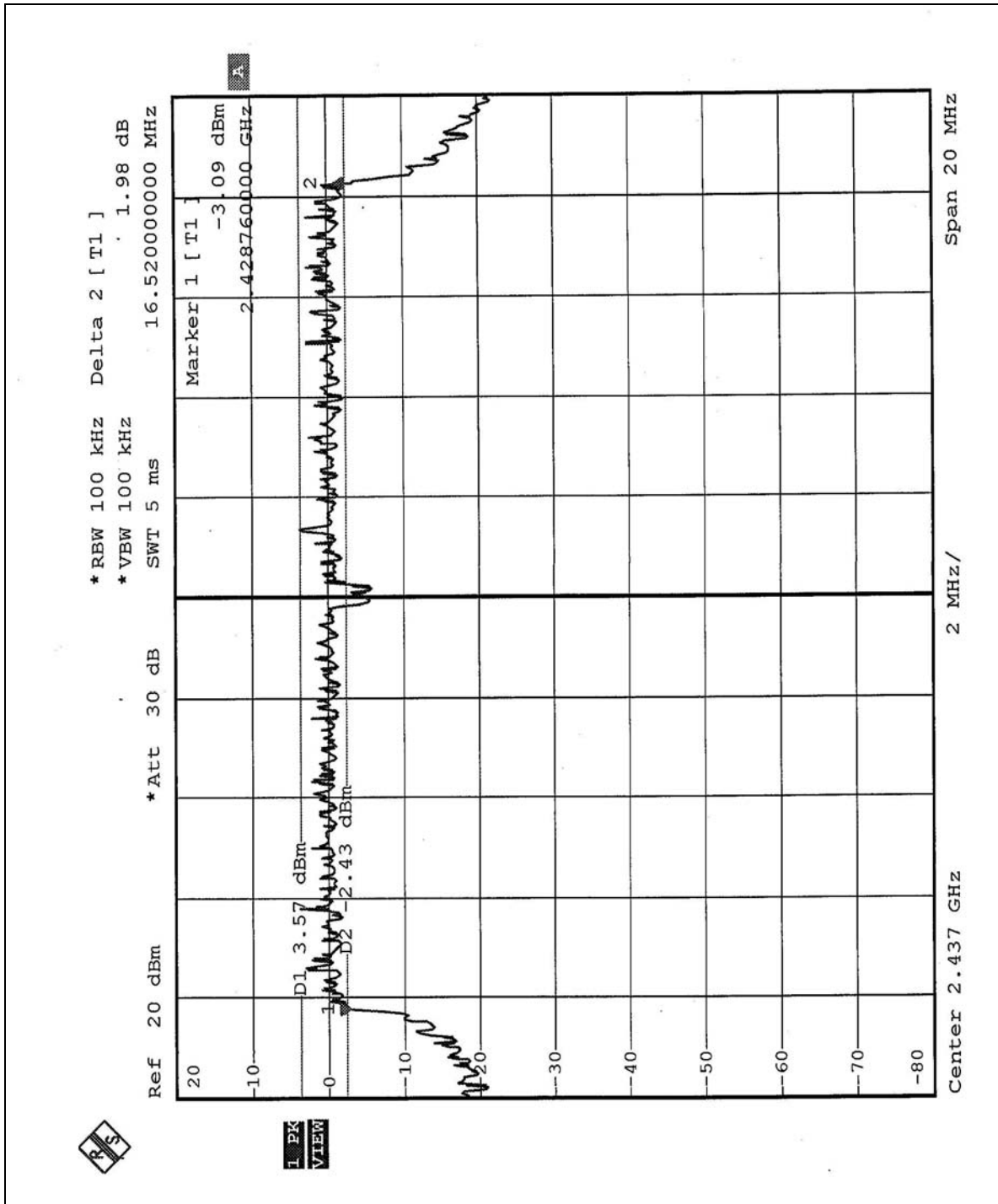
EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28deg. C, 58%RH, 991hPa
MODE	OFDM	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.40	0.5	PASS
6	2437	16.52	0.5	PASS
11	2462	16.40	0.5	PASS

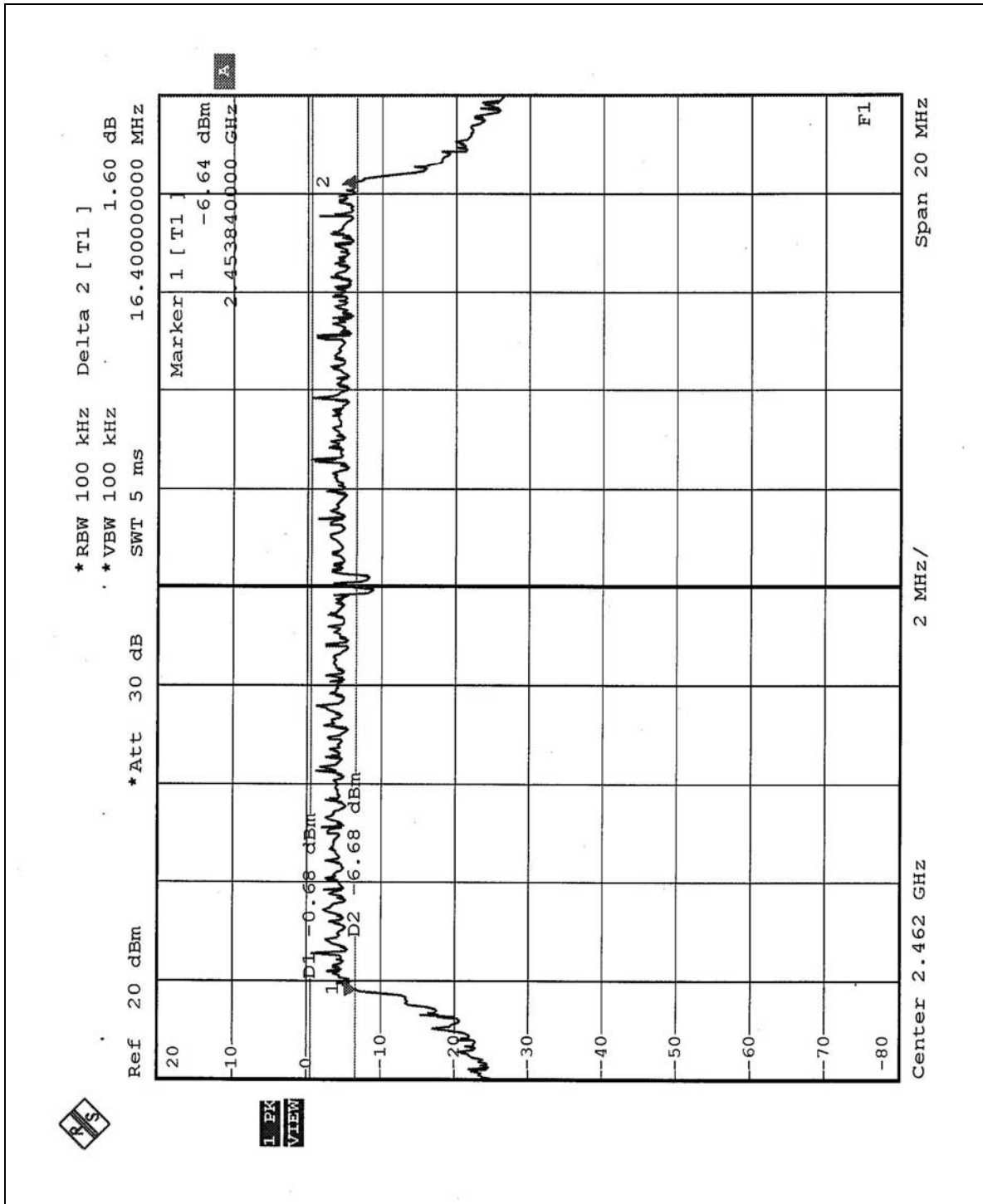
CH1



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. 13, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 220	B048470	Mar. 05, 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	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28 deg. C, 58%RH, 991 hPa
MODE	CCK	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.25	30	PASS
6	2437	19.00	30	PASS
11	2462	17.20	30	PASS

EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28 deg. C, 58%RH, 991 hPa
MODE	OFDM	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	17.00	30	PASS
6	2437	19.75	30	PASS
11	2462	17.50	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. 13, 2004

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

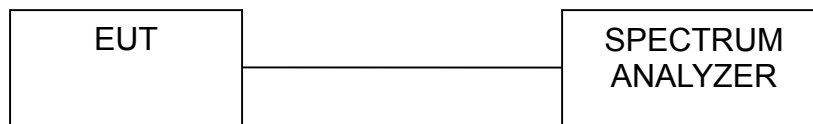
4.5.3 TEST PROCEDURE

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

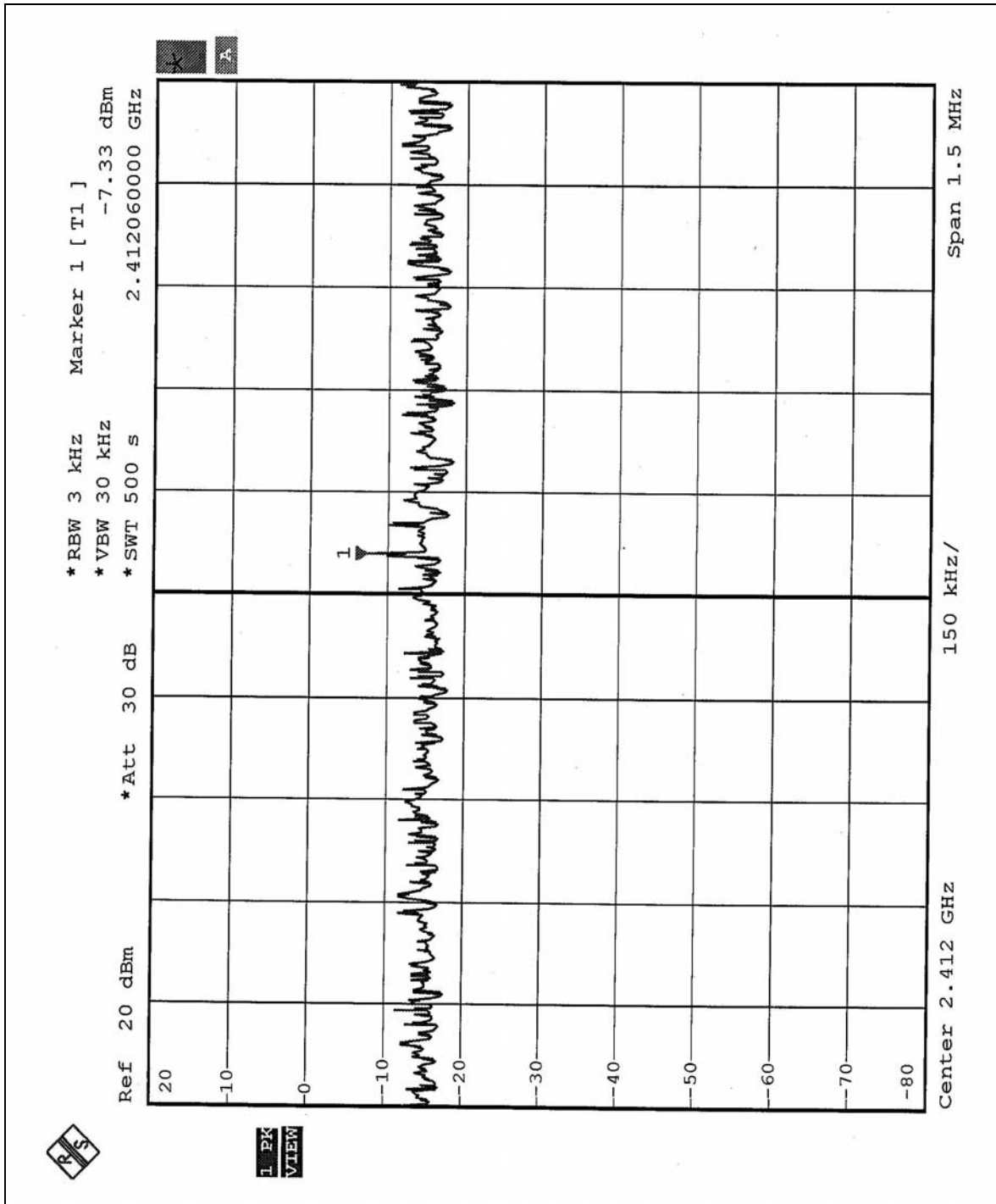
Same as 4.3.6

4.5.7 TEST RESULTS

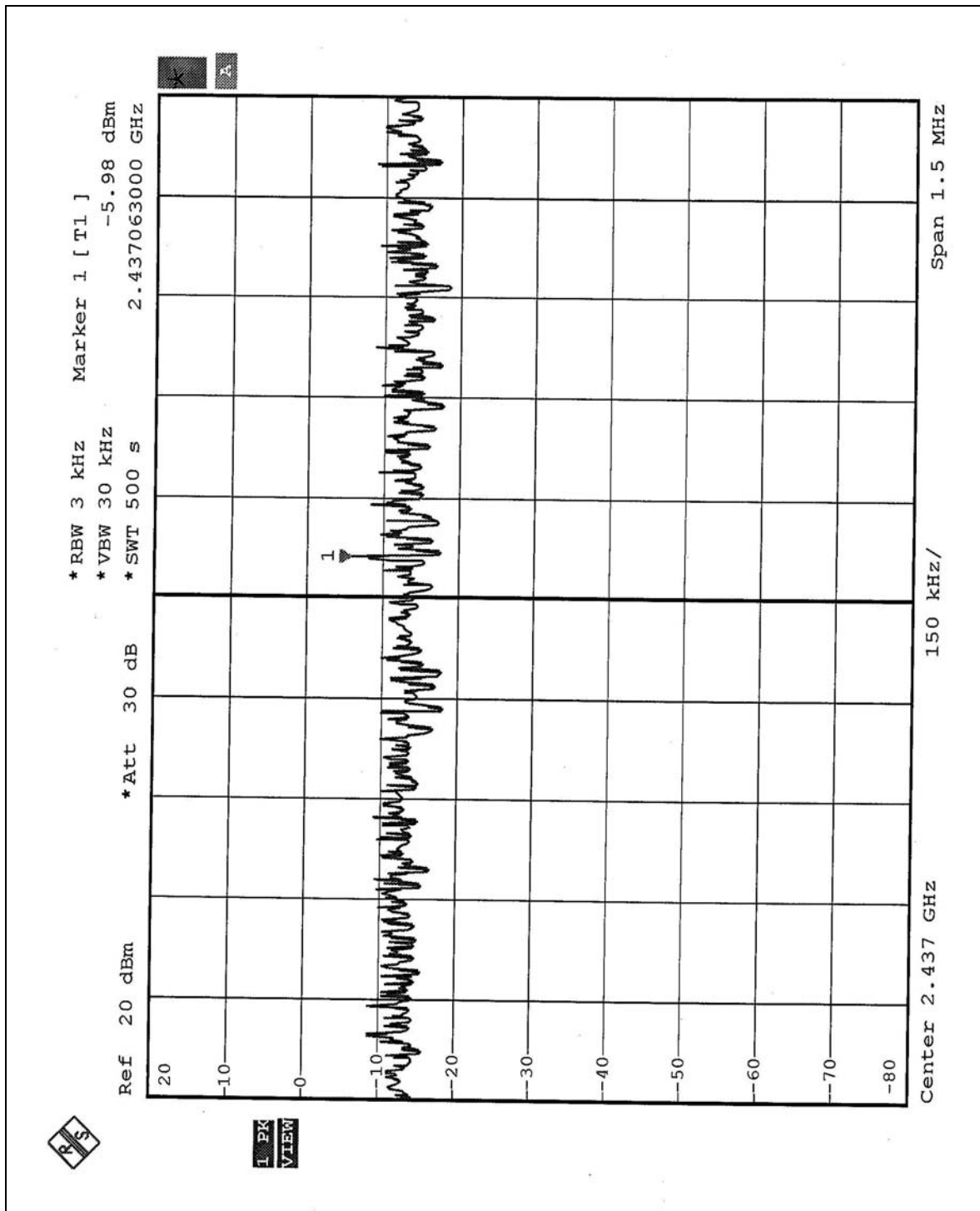
EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28 deg. C, 58%RH, 991 hPa
MODE	CCK	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.33	8	PASS
6	2437	-5.98	8	PASS
11	2462	-7.37	8	PASS

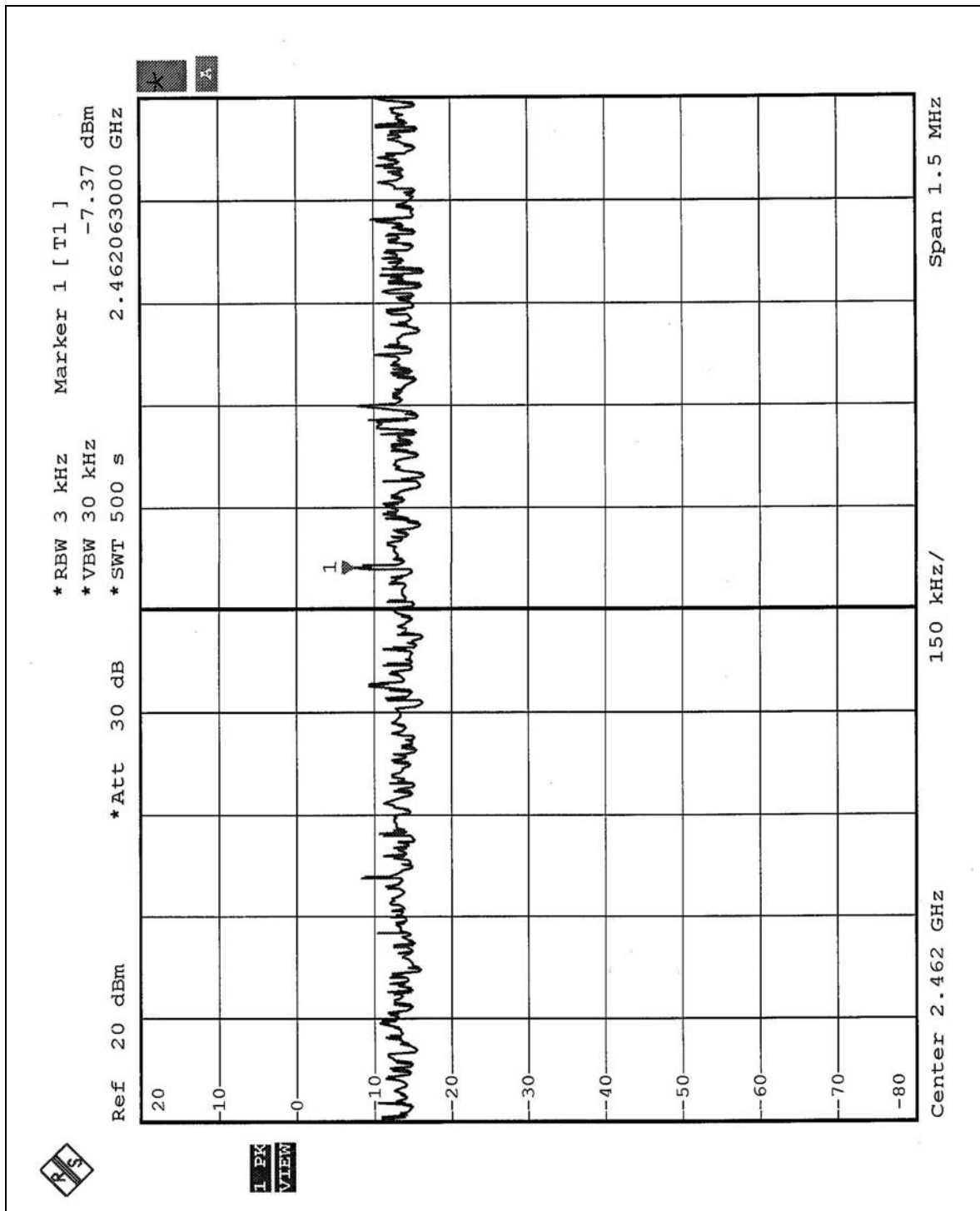
CH1



CH6



CH11

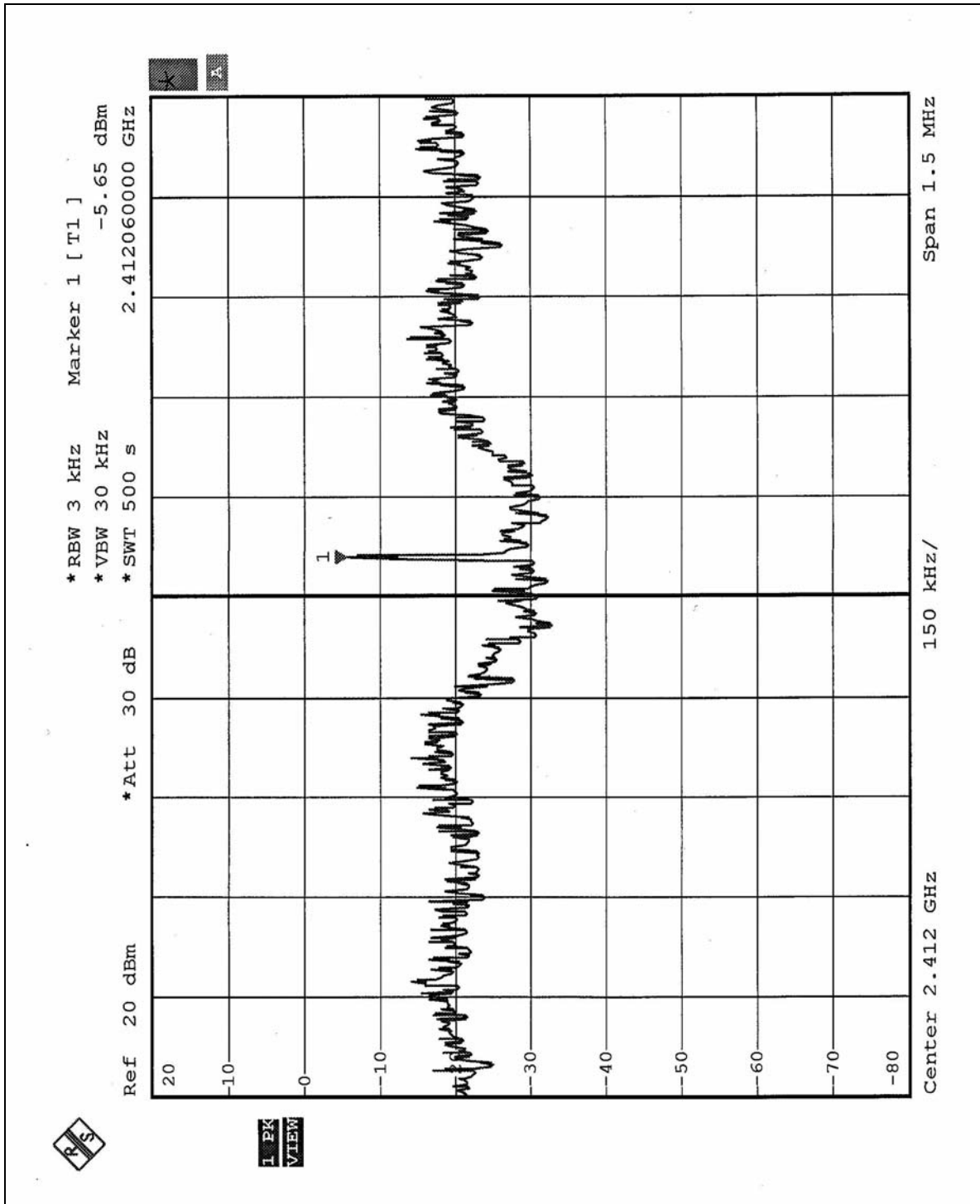




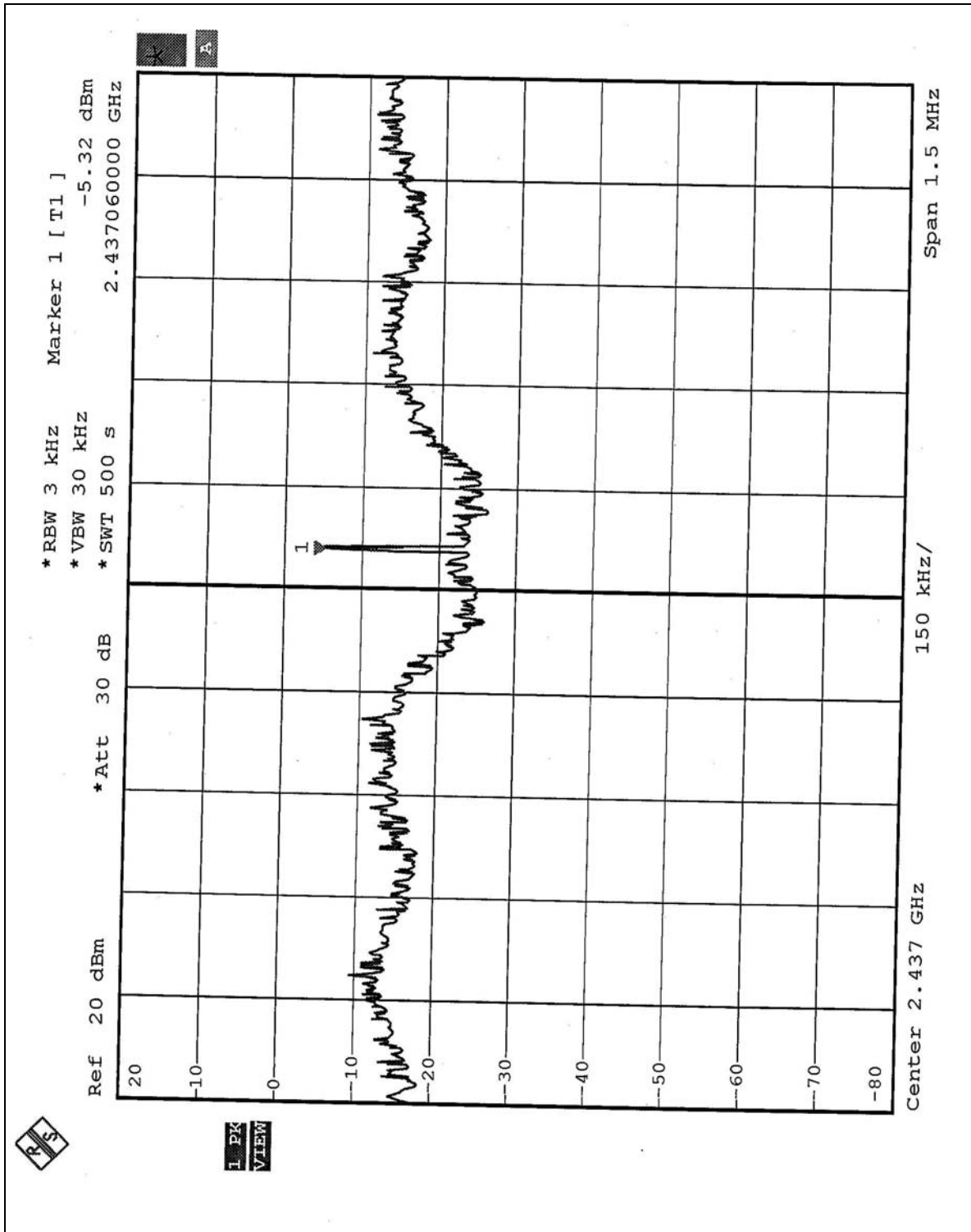
EUT	IEEE802.11g Wireless Access Point	MODEL	SL-3054AP3 Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	28 deg. C, 58%RH, 991 hPa
MODE	OFDM	TESTED BY	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-5.65	8	PASS
6	2437	-5.32	8	PASS
11	2462	-6.01	8	PASS

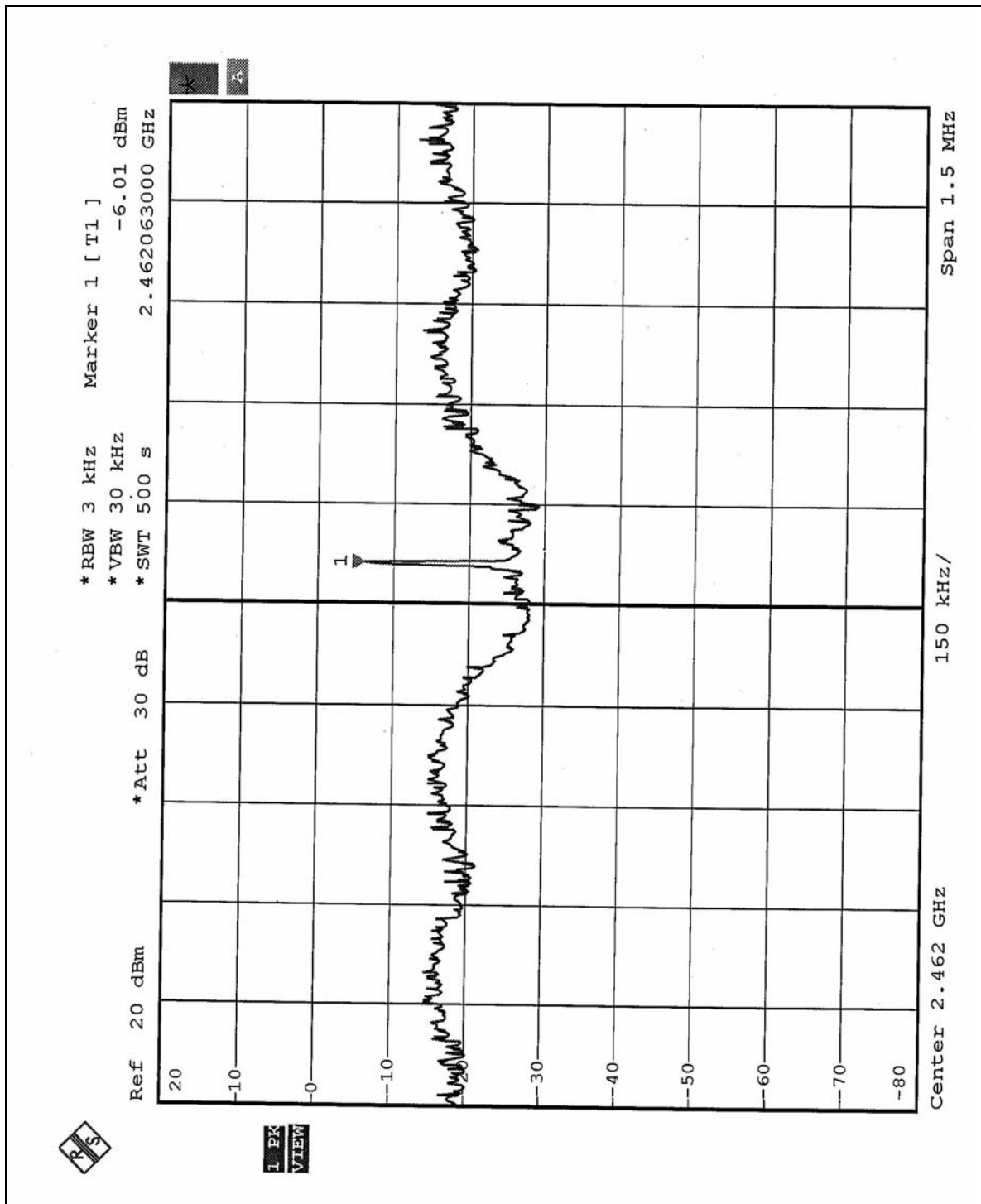
CH1



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. 13, 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 100kHz 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

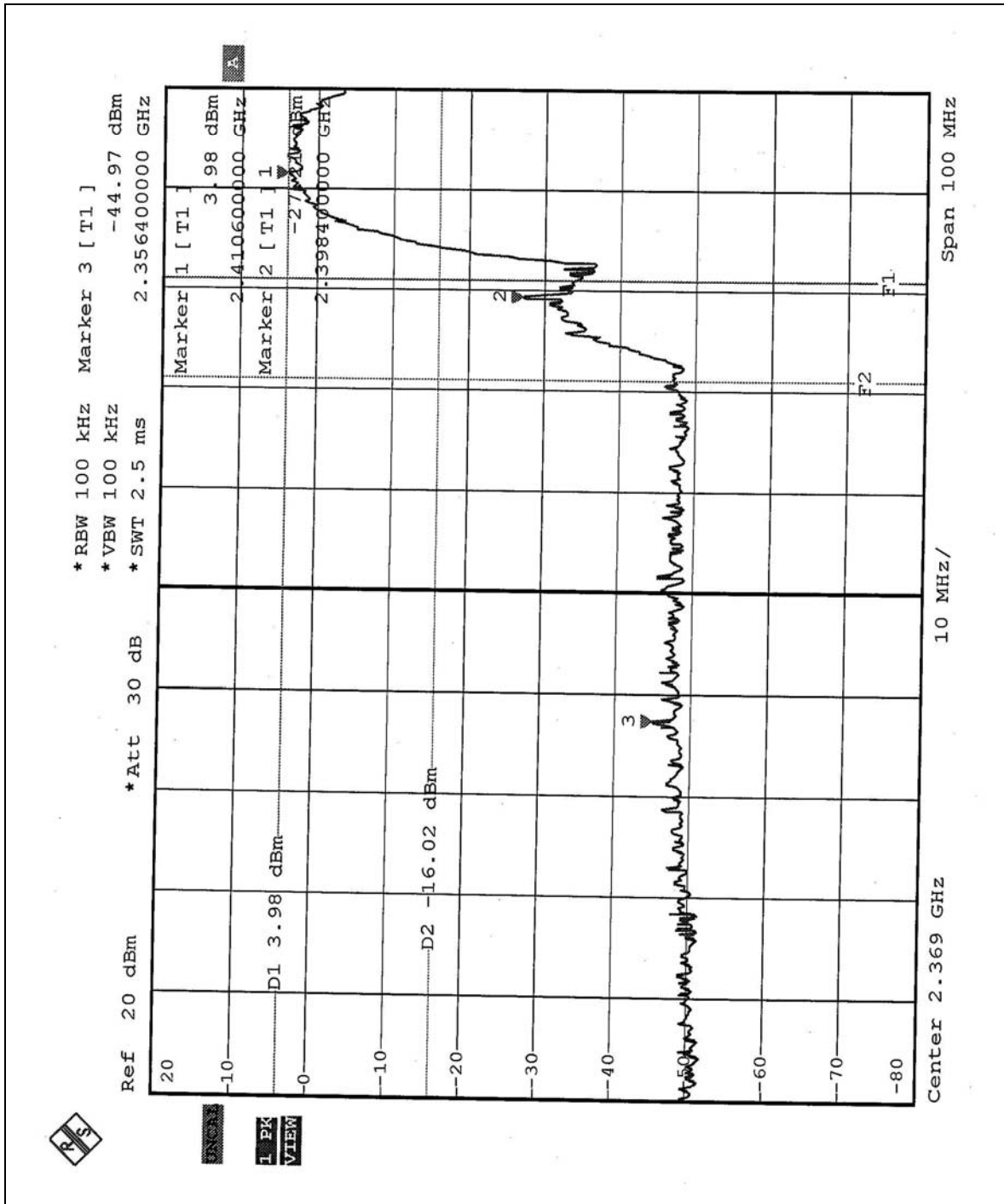
Same as Item 4.3.6

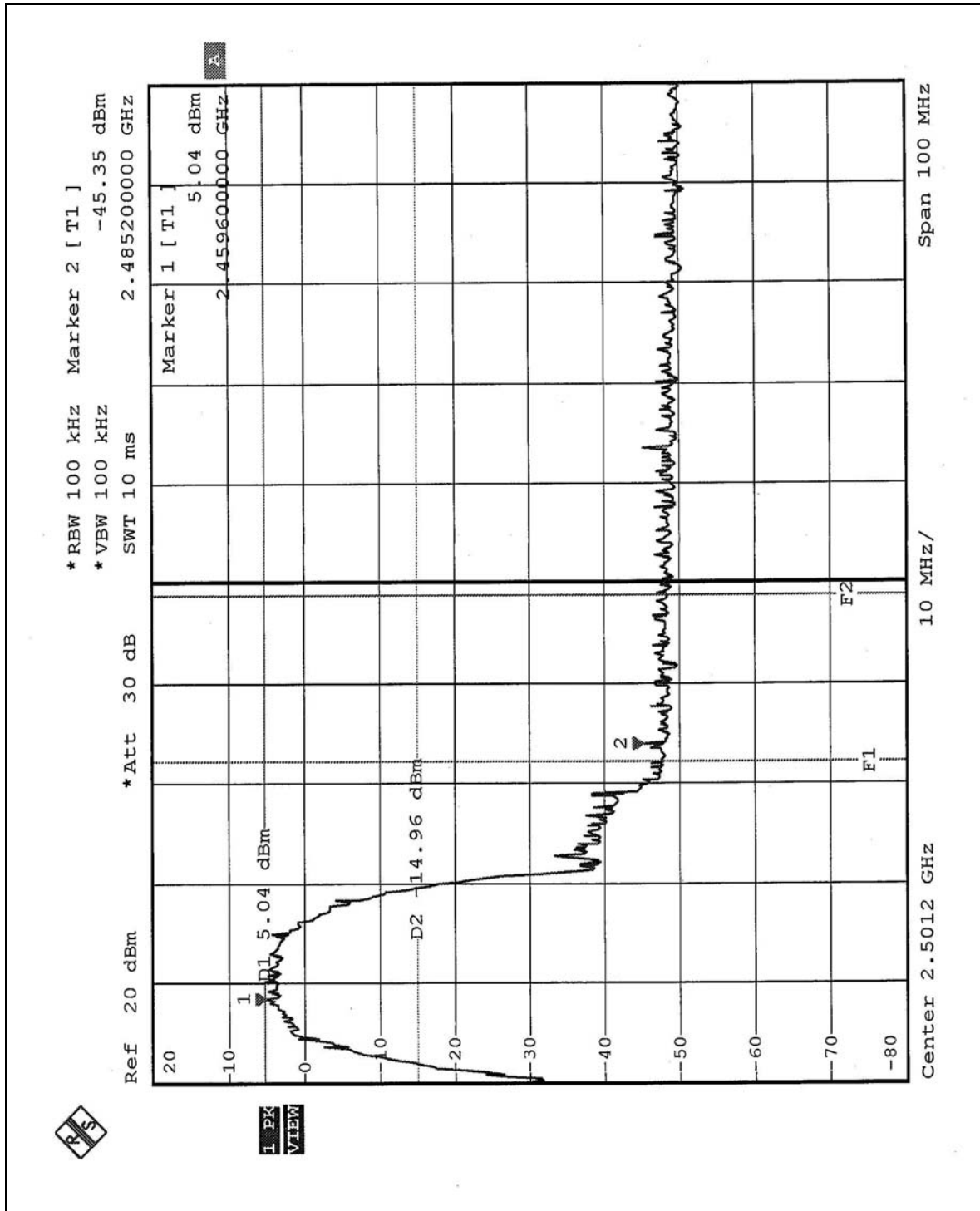
4.6.6 TEST RESULTS

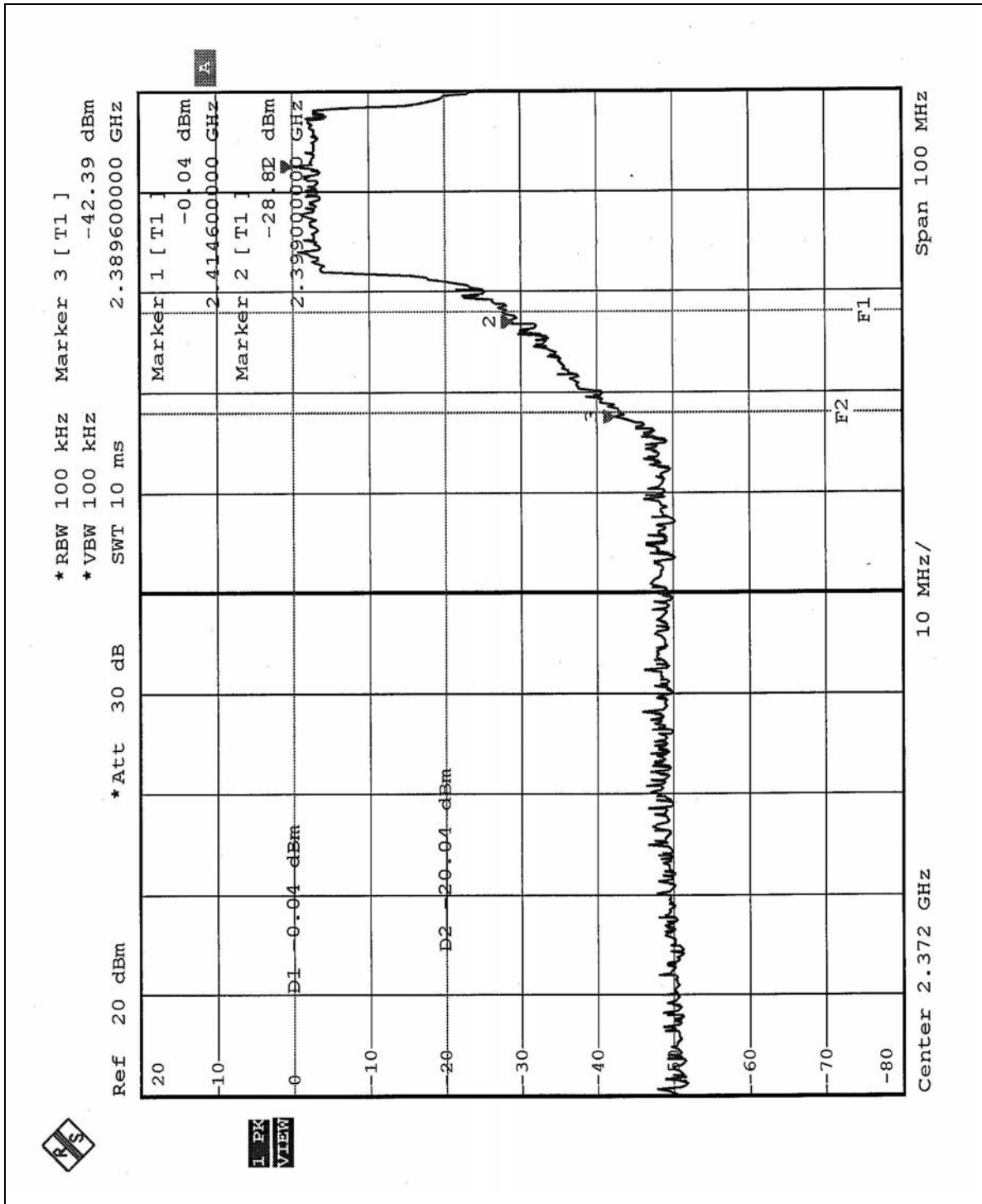
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

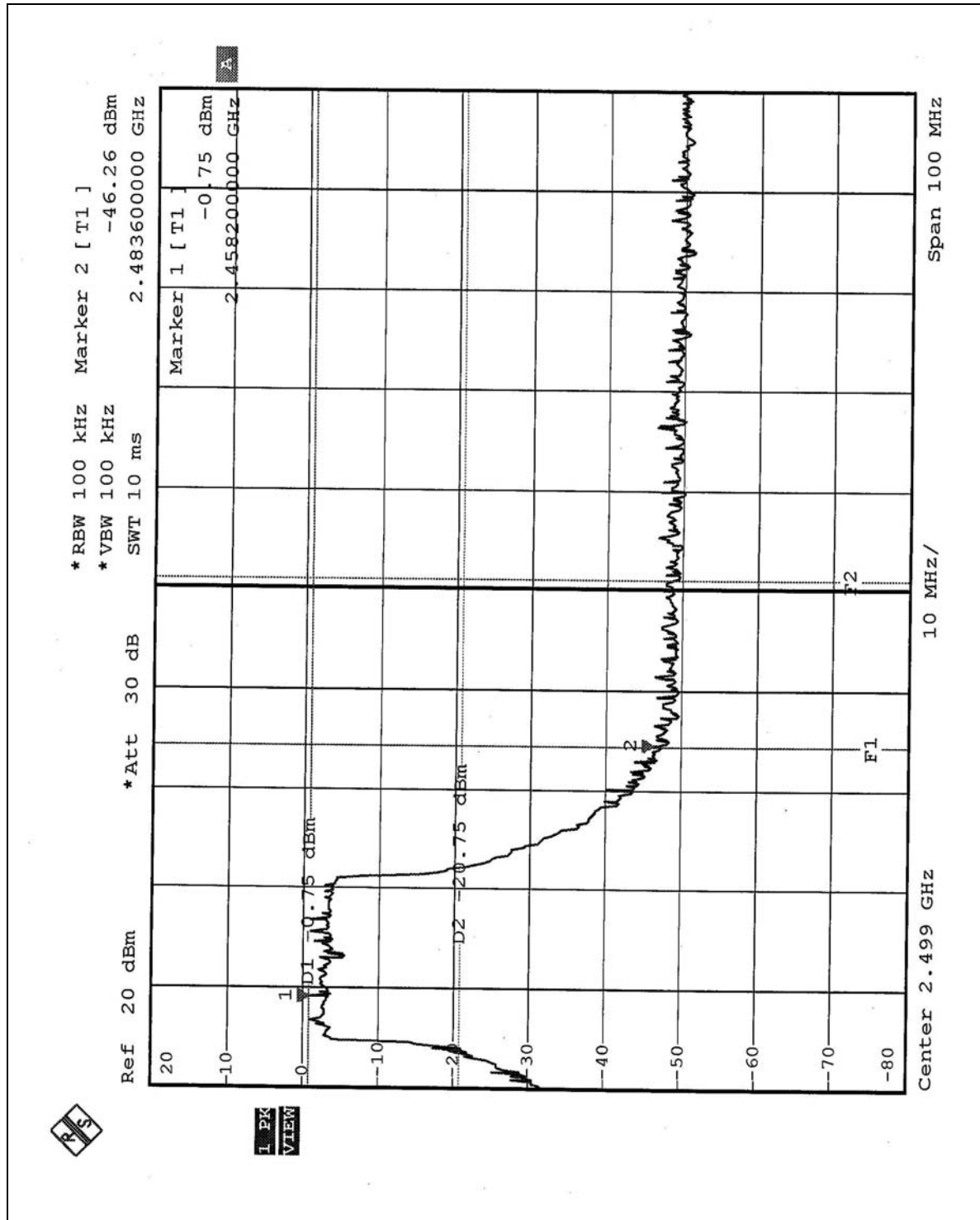
NOTE1: The band edge emission plot on the following 1-2 page shows 48.95dB / 50.39dB delta between carrier maximum power and local maximum emission in restrict band (2.3564GHz / 2.4852GHz). The emission of carrier strength list in the test result of channel 1 with CCK mode at the item 4.2.7 (page 24) is 100.80dBuV/m, so the maximum field strength in restrict band is $100.80 - 48.95 = 51.85\text{dBuV/m}$ which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following 3-4 pages shows 42.35dB / 45.51dB delta between carrier maximum power and local maximum emission in restrict band (2.3896GHz / 2.4836GHz). The emission of carrier strength list in the test result of channel 1 with OFDM mode at the item 4.2.7 (page 27) is 94.70 dBuV/m, so the maximum field strength in restrict band is $94.70 - 42.35 = 52.35\text{dBuV/m}$ which is under 54dBuV/m limit.











4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna type used in this product is Dipole Antenna with no antenna connector. The maximum Gain of this antenna is only 2.0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

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

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

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml.

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