



FCC TEST REPORT

REPORT NO.: RF930220R02

MODEL NO.: CX6601B

RECEIVED: Feb. 6, 2004

TESTED: Feb. 6 ~ Mar. 2, 2004

APPLICANT: INVENTEC APPLIANCES CORP.

ADDRESS: 37, Wu-Kung 5 Rd., Wu-Ku Industrial Park,
Wu-Ku Hsiang, Taipei Hsien, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

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

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ILAC MRA

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1 CERTIFICATION

PRODUCT : IEEE 802.11b Wireless LAN Card
BRAND NAME : TEXAS INSTRUMENTS
MODEL NO. : CX6601B
TEST ITEM: Engineering Sample
APPLICANT : INVENTEC APPLIANCES CORP.
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 Feb. 6, 2004 to Mar. 2, 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: Windy Chou, **DATE:** Mar. 8, 2004

Windy Chou

APPROVED BY: Ellis Wu, **DATE:** Mar. 8, 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 -12.79dB at 0.209MHz
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 -7.05dB at 2483.5MHz
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

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	IEEE 802.11b Wireless LAN Card
MODEL NO.	CX6601B
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	16.54dBm
ANTENNA TYPE	Printed antenna with 2dBi antenna gain
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 11Mbps.
2. The EUT complies with IEEE 802.11b products.
3. This EUT is provided to a PDA. The information of PDA is following as table:

Product Name:	Educational PDA
Model:	PLT

The PDA is powered by the following adapter:

BRAND :	TEXAS INSTRUMENTS
MODEL :	SA15-0620U
INPUT :	100-240Vac, 50-60Hz, 350mA
OUTPUT :	6Vdc, 2000mA

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

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided in 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, the worst case was chosen for final test.
4. For Radiated Emissions Test below 1GHz, there are two test modes provided to this EUT. The test mode A is for EUT plug-in the PDA which is powered by adapter, and the test mode B is for EUT plug-in the PDA which is powered by batteries.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a IEEE 802.11b Wireless LAN Card. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247),

ANSI C63.4-1992

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.

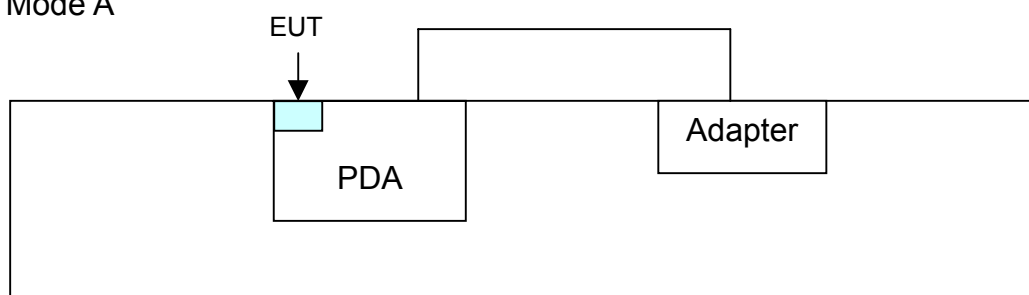
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Educational PDA	TEXAS INSTRUMENTS	PLT	NA	NA

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

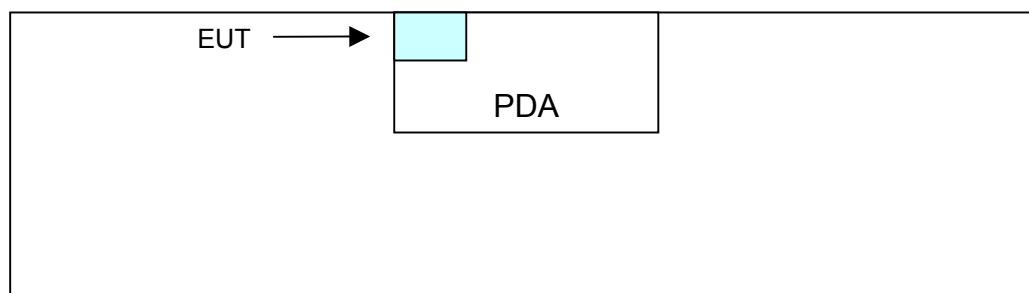
NOTE: All power cords of the above support units are non shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST

Test Mode A



Test Mode B





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
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.
 5. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 6. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.

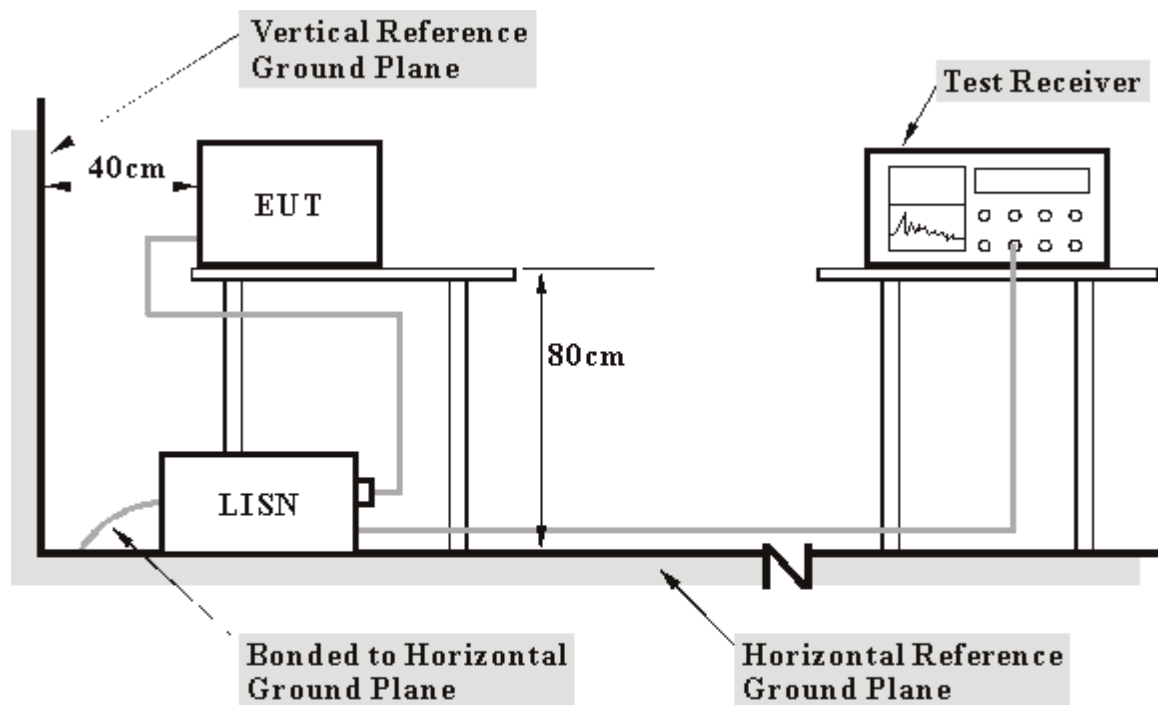
4.1.3 TEST PROCEDURES

- 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

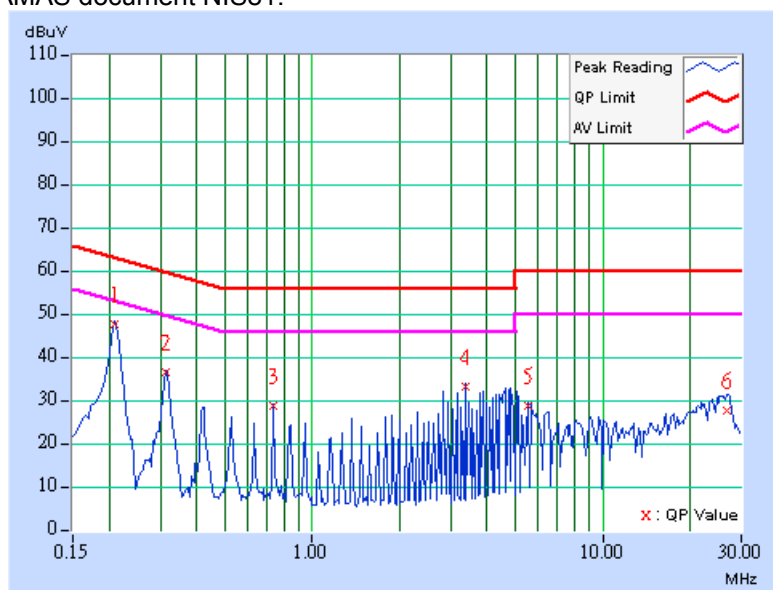
- a. Plug the EUT into the PDA system placed on a testing table.
- b. The PDA system ran a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 TEST RESULTS

EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

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	0.209	0.10	46.52	-	46.62	-	63.26	53.26	-16.64	-
2	0.314	0.10	35.52	-	35.62	-	59.86	49.86	-24.24	-
3	0.736	0.16	27.68	-	27.84	-	56.00	46.00	-28.16	-
4	3.364	0.27	32.25	-	32.52	-	56.00	46.00	-23.48	-
5	5.570	0.38	27.56	-	27.94	-	60.00	50.00	-32.06	-
6	26.808	1.20	26.66	-	27.86	-	60.00	50.00	-32.14	-

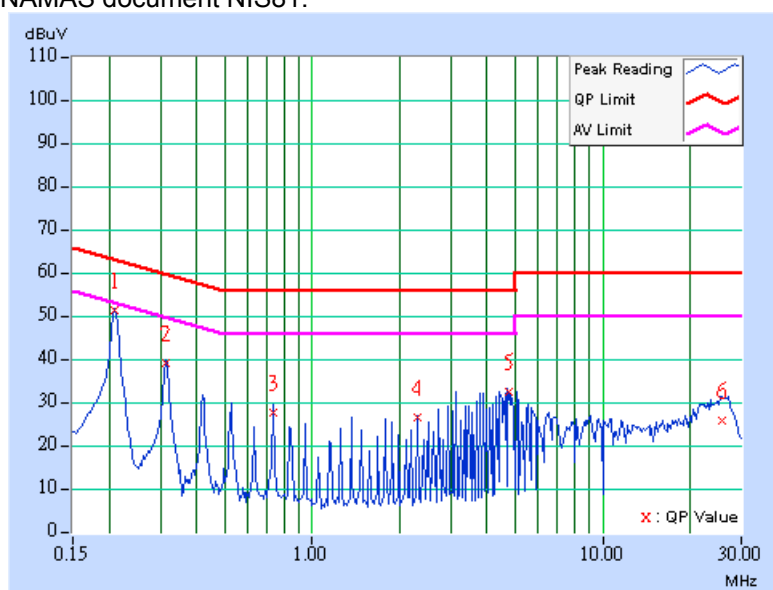
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 8. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	50.37	-	50.47	-	63.26	53.26	-12.79	-
2	0.314	0.10	38.44	-	38.54	-	59.86	49.86	-21.32	-
3	0.732	0.16	26.72	-	26.88	-	56.00	46.00	-29.12	-
4	2.309	0.22	25.84	-	26.06	-	56.00	46.00	-29.94	-
5	4.726	0.32	31.57	-	31.89	-	56.00	46.00	-24.11	-
6	25.624	1.00	25.03	-	26.03	-	60.00	50.00	-33.97	-

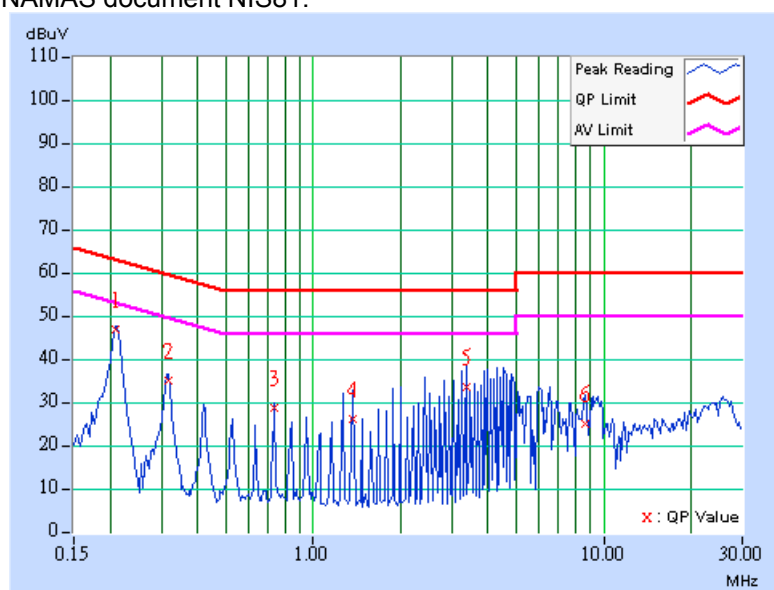
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 8. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	46.41	-	46.51	-	63.26	53.26	-16.75	-
2	0.318	0.10	34.50	-	34.60	-	59.76	49.76	-25.16	-
3	0.736	0.16	28.34	-	28.50	-	56.00	46.00	-27.50	-
4	1.367	0.20	25.78	-	25.98	-	56.00	46.00	-30.02	-
5	3.366	0.27	33.15	-	33.42	-	56.00	46.00	-22.58	-
6	8.627	0.53	24.55	-	25.08	-	60.00	50.00	-34.92	-

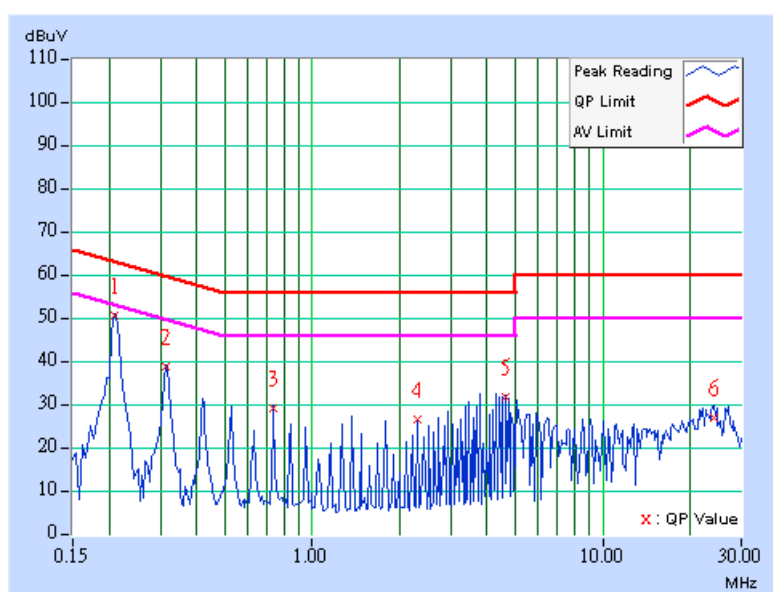
- REMARKS:**
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 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 8. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	49.60	-	49.70	-	63.26	53.26	-13.56	-
2	0.314	0.10	37.75	-	37.85	-	59.86	49.86	-22.01	-
3	0.736	0.16	28.30	-	28.46	-	56.00	46.00	-27.54	-
4	2.316	0.22	25.80	-	26.02	-	56.00	46.00	-29.98	-
5	4.633	0.32	30.92	-	31.24	-	56.00	46.00	-24.76	-
6	24.219	0.97	25.93	-	26.90	-	60.00	50.00	-33.10	-

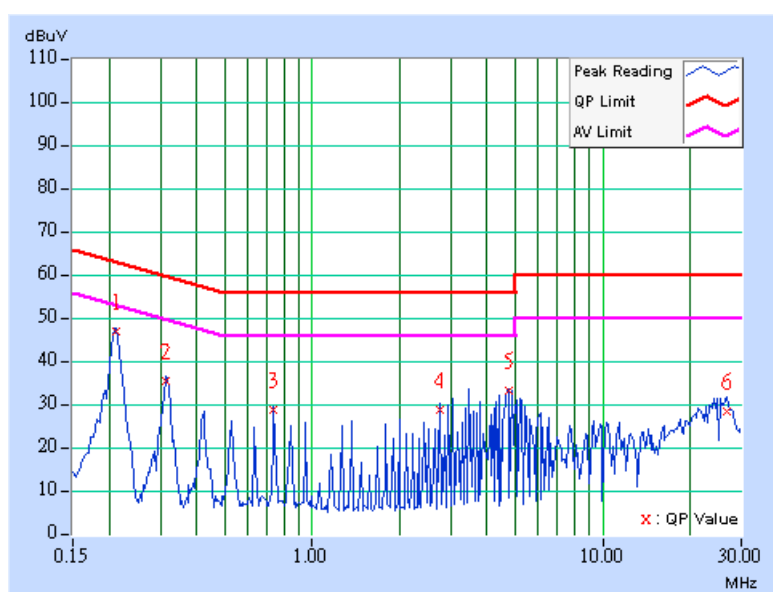
- REMARKS:**
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 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
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EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.213	0.10	45.79	-	45.89	-	63.11	53.11	-17.22	-
2	0.314	0.10	34.48	-	34.58	-	59.86	49.86	-25.28	-
3	0.736	0.16	27.80	-	27.96	-	56.00	46.00	-28.04	-
4	2.738	0.24	27.79	-	28.03	-	56.00	46.00	-27.97	-
5	4.742	0.34	32.27	-	32.61	-	56.00	46.00	-23.39	-
6	26.878	1.20	27.23	-	28.43	-	60.00	50.00	-31.57	-

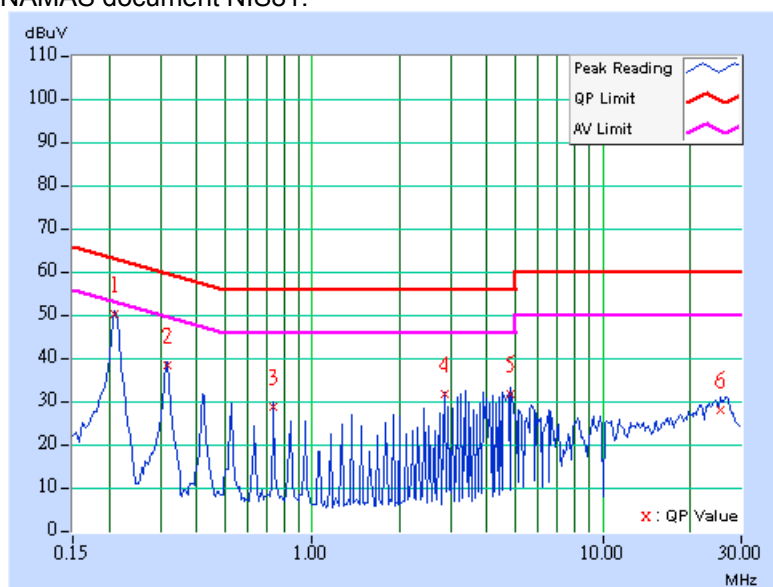
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 8. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.209	0.10	49.42	-	49.52	-	63.26	53.26	-13.74	-
2	0.318	0.10	37.39	-	37.49	-	59.76	49.76	-22.27	-
3	0.736	0.16	28.06	-	28.22	-	56.00	46.00	-27.78	-
4	2.844	0.24	30.77	-	31.01	-	56.00	46.00	-24.99	-
5	4.844	0.33	30.95	-	31.28	-	56.00	46.00	-24.72	-
6	25.390	1.00	27.06	-	28.06	-	60.00	50.00	-31.94	-

- 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.
 7. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 2.44dB + variance 3dB = 5.44 dB
 8. The measurement uncertainty is less than +/-2.44dB, which is calculated as per the NAMAS document NIS81.





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.
 6. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
 7. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.



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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

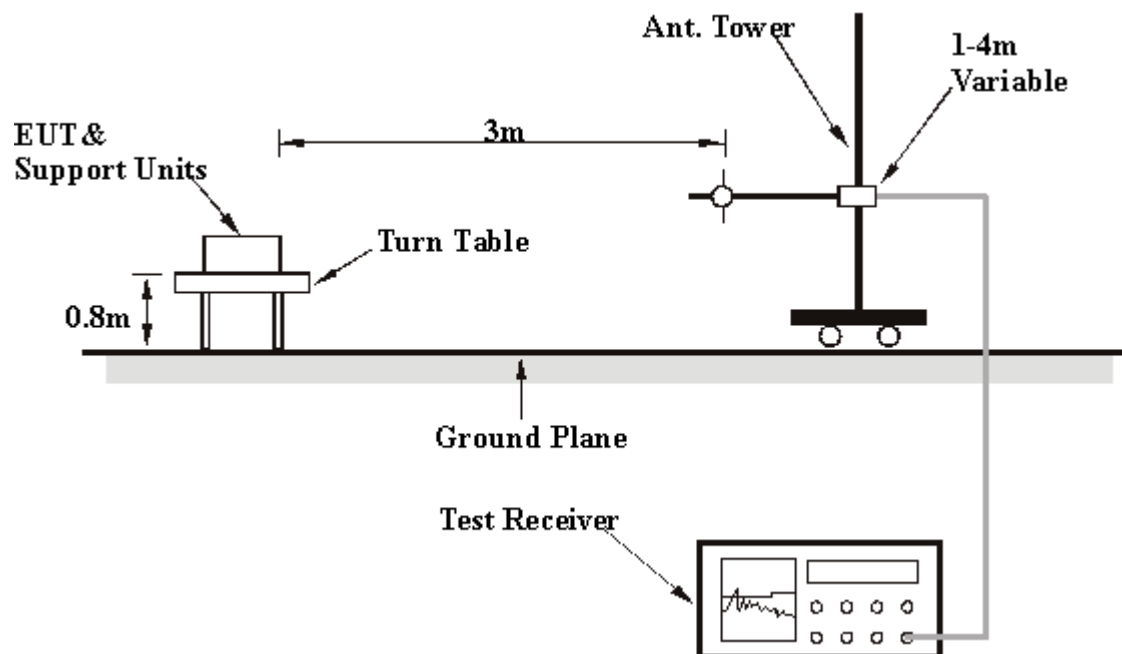
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) 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	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
CHANNEL	Channel 11	TEST MODE	A
DETECTOR FUNCTION	Quasi-Peak	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 991 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY: Martin Lee			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	264.00	30.47 QP	46.00	-15.53	1.24 H	144	15.09	15.38
2	300.04	32.24 QP	46.00	-13.76	1.08 H	340	15.95	16.29
3	439.99	35.58 QP	46.00	-10.42	1.00 H	213	15.40	20.18
4	450.04	34.53 QP	46.00	-11.47	1.00 H	282	14.16	20.37
5	525.01	35.54 QP	46.00	-10.46	1.00 H	259	12.92	22.62
6	572.00	37.16 QP	46.00	-8.84	1.23 H	118	13.33	23.83
7	616.00	37.67 QP	46.00	-8.33	1.45 H	266	12.84	24.83
8	750.10	34.96 QP	46.00	-11.04	1.00 H	3	7.55	27.41

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	119.53	25.60 QP	43.50	-17.90	1.00 V	83	13.20	12.40
2	180.10	25.12 QP	43.50	-18.38	1.42 V	69	15.04	10.08
3	440.01	31.40 QP	46.00	-14.60	1.30 V	92	11.22	20.18
4	450.04	32.37 QP	46.00	-13.63	1.42 V	5	12.00	20.37
5	525.02	31.78 QP	46.00	-14.22	1.15 V	284	9.16	22.62
6	572.01	31.62 QP	46.00	-14.38	1.00 V	357	7.79	23.83
7	616.01	32.92 QP	46.00	-13.08	1.80 V	231	8.09	24.83
8	750.06	36.08 QP	46.00	-9.92	1.39 V	143	8.67	27.41

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.
5. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
6. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.

EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
CHANNEL	Channel 11	TEST MODE	B
DETECTOR FUNCTION	Quasi-Peak	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	22 deg. C, 70%RH, 991 hPa	INPUT POWER (SYSTEM)	120Vac, 60Hz
TESTED BY: Martin Lee			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	264.30	29.20 QP	46.00	-16.80	1.47 H	327	13.83	15.37
2	440.00	34.87 QP	46.00	-11.13	1.05 H	59	14.69	20.18
3	450.30	33.65 QP	46.00	-12.35	1.16 H	328	13.27	20.38
4	525.02	35.47 QP	46.00	-10.53	1.00 H	47	12.85	22.62
5	572.00	36.87 QP	46.00	-9.13	1.50 H	12	13.04	23.83
6	616.00	35.98 QP	46.00	-10.02	1.65 H	298	11.15	24.83
7	750.21	33.47 QP	46.00	-12.53	1.09 H	94	6.06	27.41

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	120.30	25.80 QP	43.50	-17.70	1.20 V	20	13.35	12.45
2	440.30	33.50 QP	46.00	-12.50	1.45 V	69	13.31	20.19
3	450.06	33.65 QP	46.00	-12.35	1.25 V	254	13.28	20.37
4	572.00	30.68 QP	46.00	-15.32	1.78 V	39	6.85	23.83
5	616.00	33.60 QP	46.00	-12.40	1.62 V	127	8.77	24.83
6	750.30	35.98 QP	46.00	-10.02	1.00 V	210	8.57	27.41

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.
5. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
6. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.92 PK	74.00	-17.08	1.31 H	24	26.40	30.52
1	2390.00	46.25 AV	54.00	-7.75	1.31 H	24	15.73	30.52
2	*2412.00	111.92 PK			1.31 H	24	81.50	30.42
2	*2412.00	101.25 AV			1.31 H	24	70.83	30.42
3	4824.00	47.12 PK	74.00	-26.88	1.44 H	211	10.57	36.56
3	4824.00	35.45 AV	54.00	-18.55	1.44 H	211	-1.10	36.56
4	7235.00	50.87 PK	74.00	-23.13	1.20 H	32	9.46	41.41
4	7235.00	40.40 AV	54.00	-13.60	1.20 H	32	-1.01	41.41
5	9648.00	56.77 PK	74.00	-17.23	1.01 H	294	12.46	44.31
5	9648.00	43.87 AV	54.00	-10.13	1.01 H	294	-0.44	44.31

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	49.95 PK	74.00	-24.05	1.10 V	65	19.43	30.52
1	2390.00	39.75 AV	54.00	-14.25	1.10 V	65	9.23	30.52
2	*2412.00	104.92 PK			1.10 V	65	74.50	30.42
2	*2412.00	94.75 AV			1.10 V	65	64.33	30.42
3	4824.00	37.95 PK	74.00	-36.05	1.14 V	181	1.40	36.56
3	4824.00	35.62 AV	54.00	-18.38	1.14 V	181	-0.93	36.56
4	9648.00	47.17 PK	74.00	-26.83	1.12 V	76	2.86	44.31
4	9648.00	44.30 AV	54.00	-9.70	1.12 V	76	-0.01	44.31

- 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.
 6. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
 7. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	112.26 PK			1.06 H	48	81.83	30.43
1	*2437.00	101.60 AV			1.06 H	48	71.17	30.43
2	4874.00	46.60 PK	74.00	-27.40	1.19 H	6	9.86	36.74
2	4874.00	34.13 AV	54.00	-19.87	1.19 H	6	-2.61	36.74
3	7311.00	52.29 PK	74.00	-21.71	1.11 H	47	10.81	41.49
3	7311.00	39.82 AV	54.00	-14.18	1.11 H	47	-1.66	41.49
4	9748.00	57.30 PK	74.00	-16.70	1.23 H	36	13.02	44.28
4	9748.00	44.90 AV	54.00	-9.10	1.23 H	36	0.62	44.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.26 PK			1.00 V	147	79.83	30.43
1	*2437.00	99.60 AV			1.00 V	147	69.17	30.43
2	4874.00	38.90 PK	74.00	-35.10	1.16 V	68	2.16	36.74
2	4874.00	36.70 AV	54.00	-17.30	1.16 V	68	-0.04	36.74
3	9748.00	48.60 PK	74.00	-25.40	1.32 V	254	4.32	44.28
3	9748.00	45.90 AV	54.00	-8.10	1.32 V	254	1.62	44.28

- 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.
 6. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
 7. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.



EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
MODE	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 991 hPa	TESTED BY: Martin Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.78 PK			1.09 H	113	81.33	30.45
1	*2462.00	100.95 AV			1.09 H	113	70.50	30.45
2	2483.50	57.78 PK	74.00	-16.22	1.09 H	113	27.32	30.46
2	2483.50	46.95 AV	54.00	-7.05	1.09 H	113	16.49	30.46
3	4924.00	46.34 PK	74.00	-27.66	1.21 H	14	9.42	36.92
3	4924.00	36.48 AV	54.00	-17.52	1.21 H	14	-0.44	36.92
4	7387.00	51.10 PK	74.00	-22.90	1.42 H	4	9.44	41.66
4	7387.00	39.97 AV	54.00	-14.03	1.42 H	4	-1.69	41.66
5	9848.00	57.88 PK	74.00	-16.12	1.16 H	81	13.62	44.26
5	9848.00	45.21 AV	54.00	-8.79	1.16 H	81	0.95	44.26

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.62 PK			1.12 V	36	76.17	30.45
1	*2462.00	95.95 AV			1.12 V	36	65.50	30.45
2	2483.50	52.62 PK	74.00	-21.38	1.12 V	36	22.16	30.46
2	2483.50	41.95 AV	54.00	-12.05	1.12 V	36	11.49	30.46
3	4924.00	49.78 PK	74.00	-24.22	1.23 V	223	12.86	36.92
3	4924.00	37.15 AV	54.00	-16.85	1.23 V	223	0.23	36.92
4	9848.00	57.48 PK	74.00	-16.52	1.27 V	15	13.22	44.26
4	9848.00	43.38 AV	54.00	-10.62	1.27 V	15	-0.88	44.26

- 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.
 6. Standard TI test Plan No.: QRA-11282, Rev.: 1.0 passes uncertainty 3.617dB + variance 3dB =6.617 dB
 7. The measurement uncertainty is less than +/-3.617dB, which is calculated as per the NAMAS document NIS81.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

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

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

4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



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.

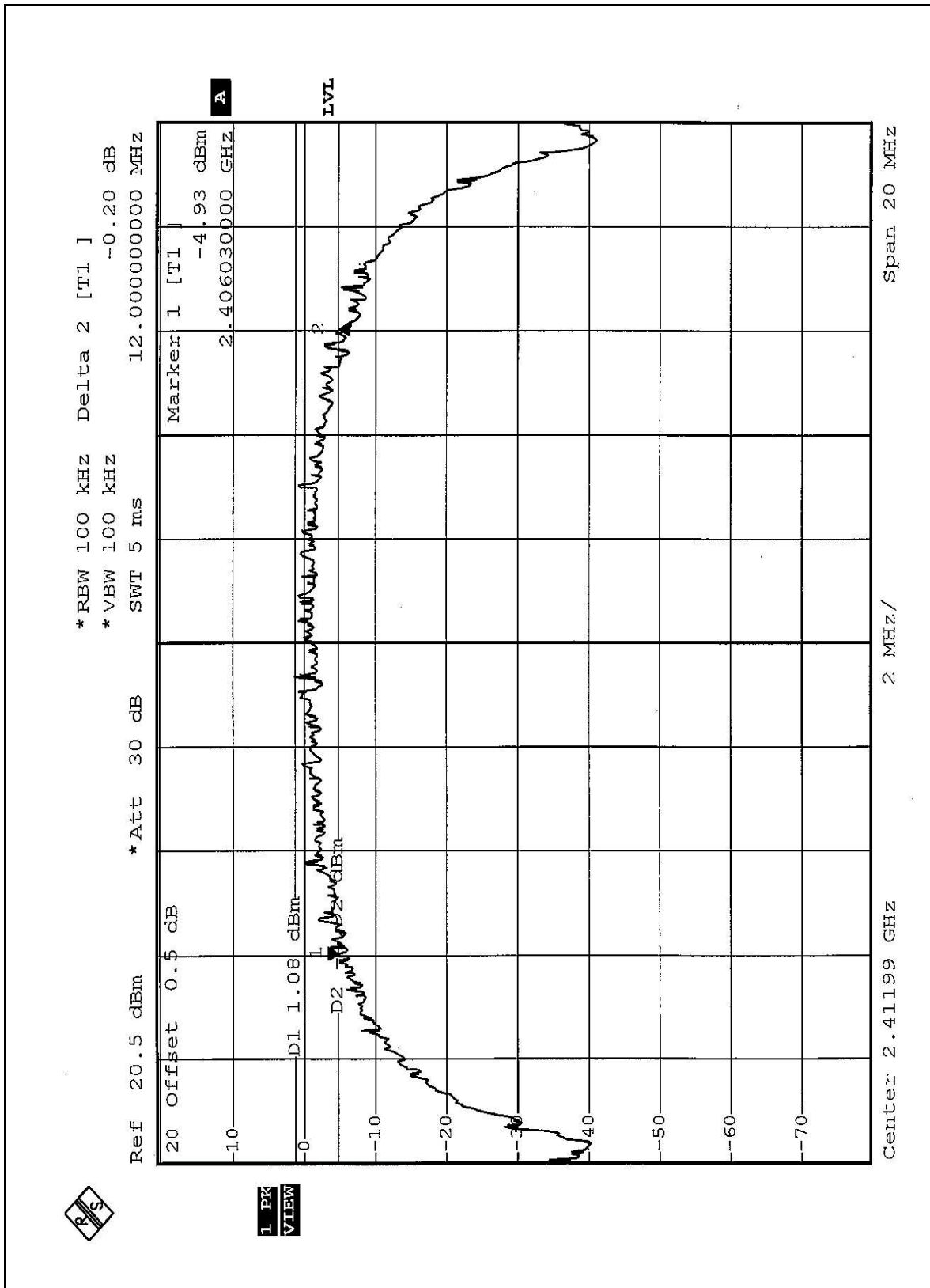


4.3.7 TEST RESULTS

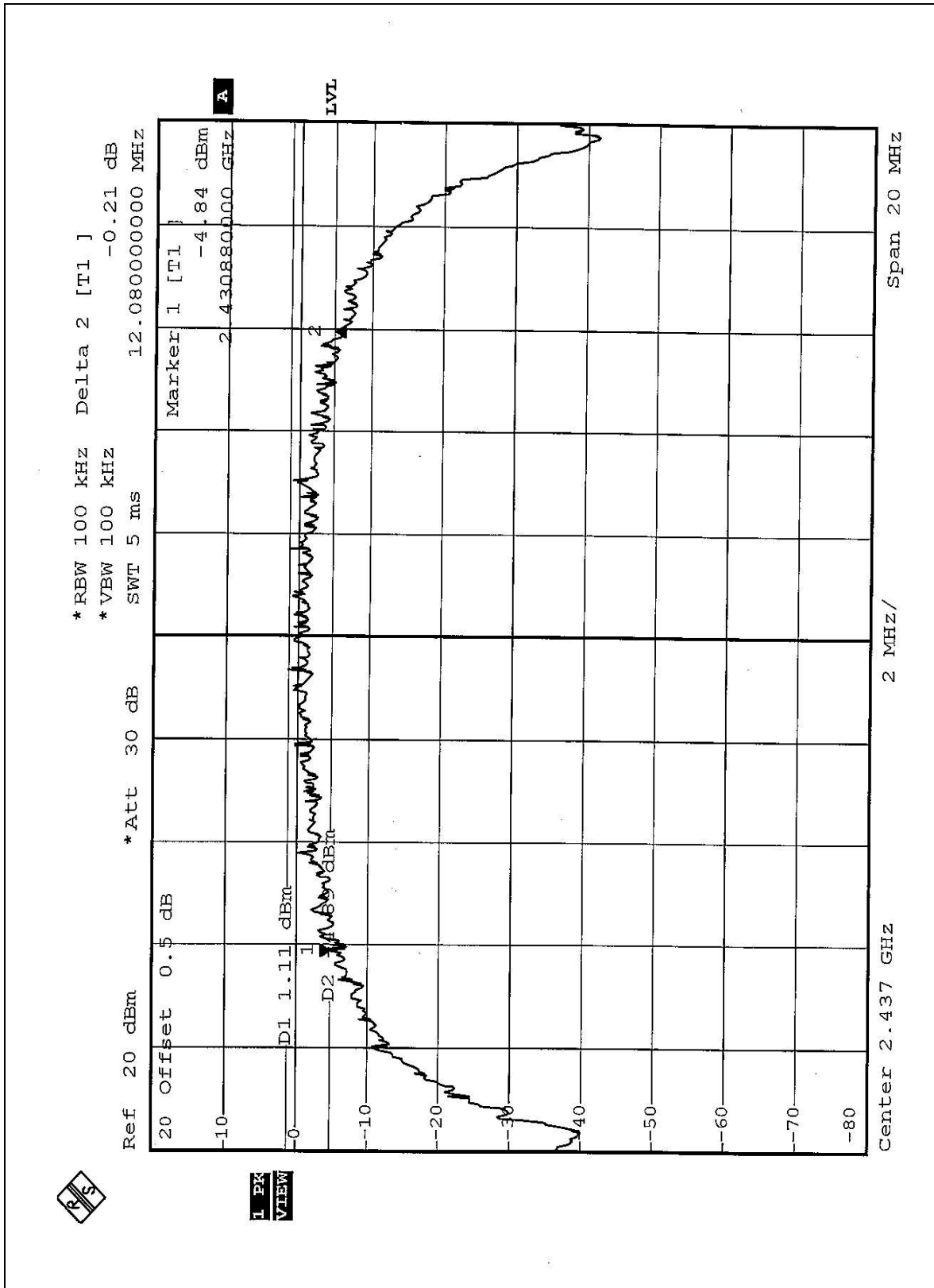
EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21 deg. C, 65%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.00	0.5	PASS
6	2437	12.08	0.5	PASS
11	2462	12.20	0.5	PASS

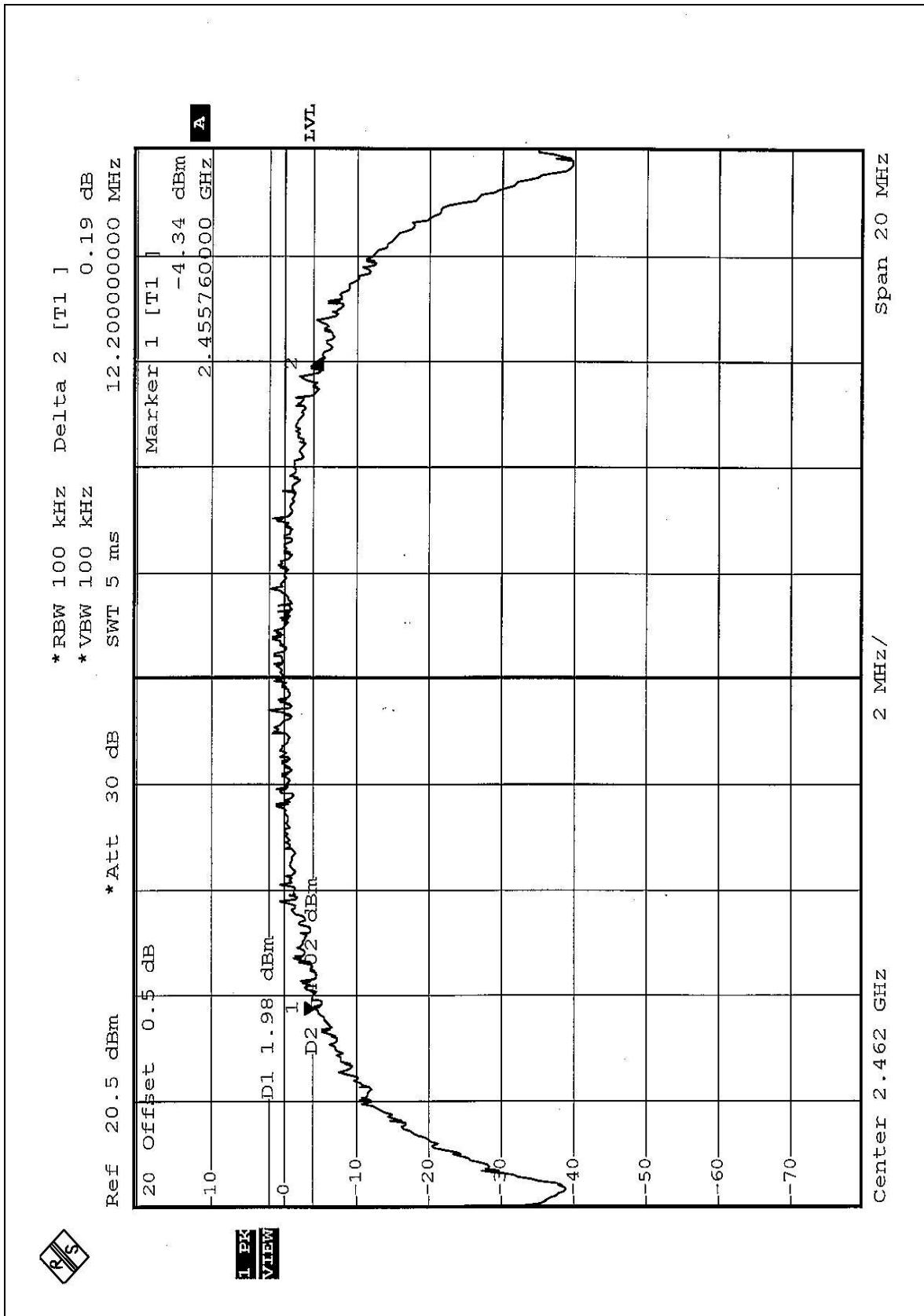
CH1



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 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 3.4.6



4.4.7 TEST RESULTS

EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21 deg. C, 65%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	16.54	30	PASS
6	2437	16.43	30	PASS
11	2462	16.38	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

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

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

4.5.3 TEST PROCEDURE

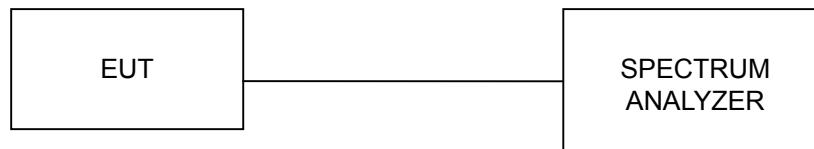
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz 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 CONDITION

Same as Item 3.4.6

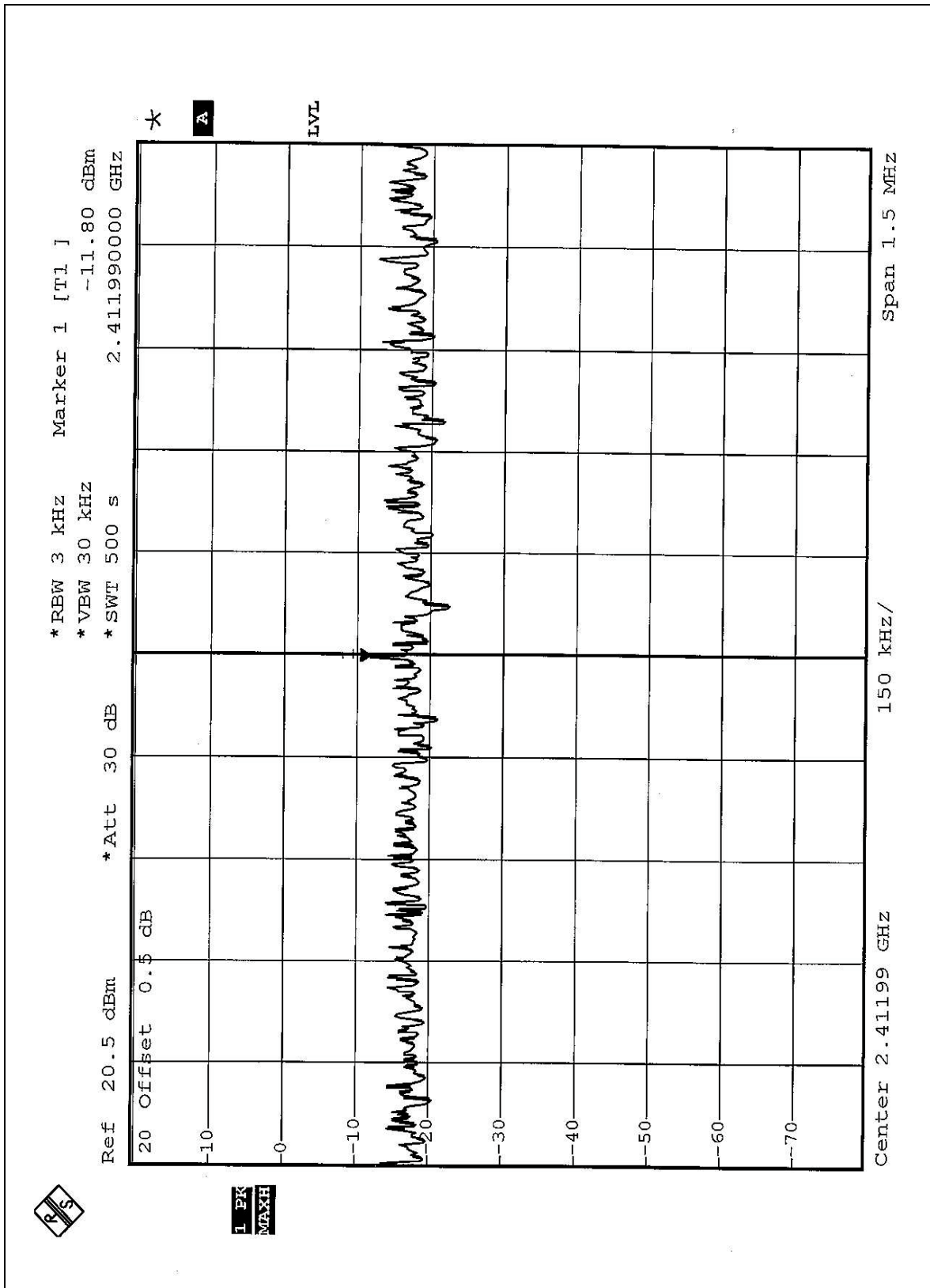


4.5.7 TEST RESULTS

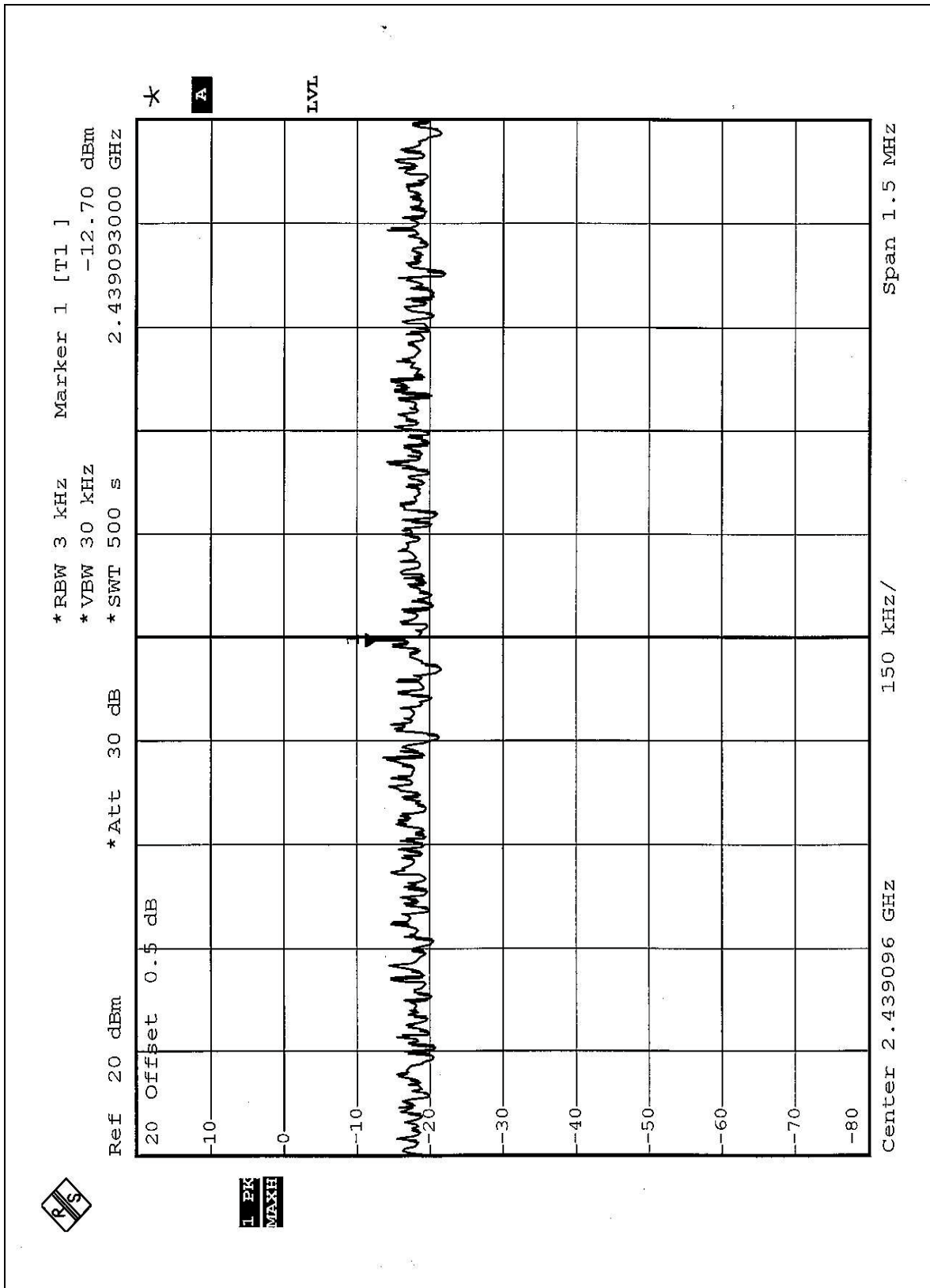
EUT	IEEE 802.11b Wireless LAN Card	MODEL	CX6601B
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	21 deg. C, 65%RH, 991 hPa
TESTED BY: Steven Lu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.80	8	PASS
6	2437	-12.70	8	PASS
11	2462	-12.29	8	PASS

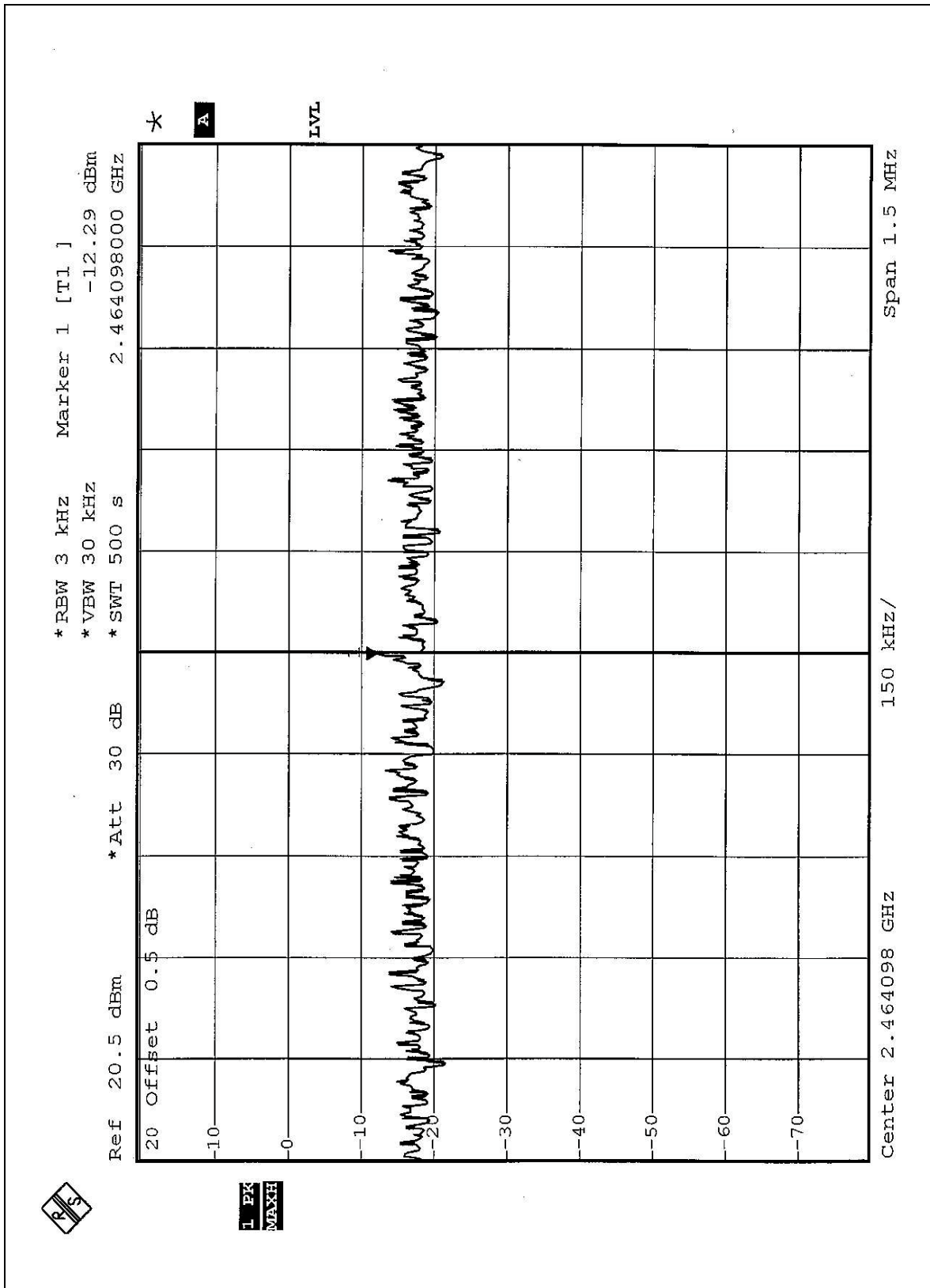
CH1



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 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 3.4.6

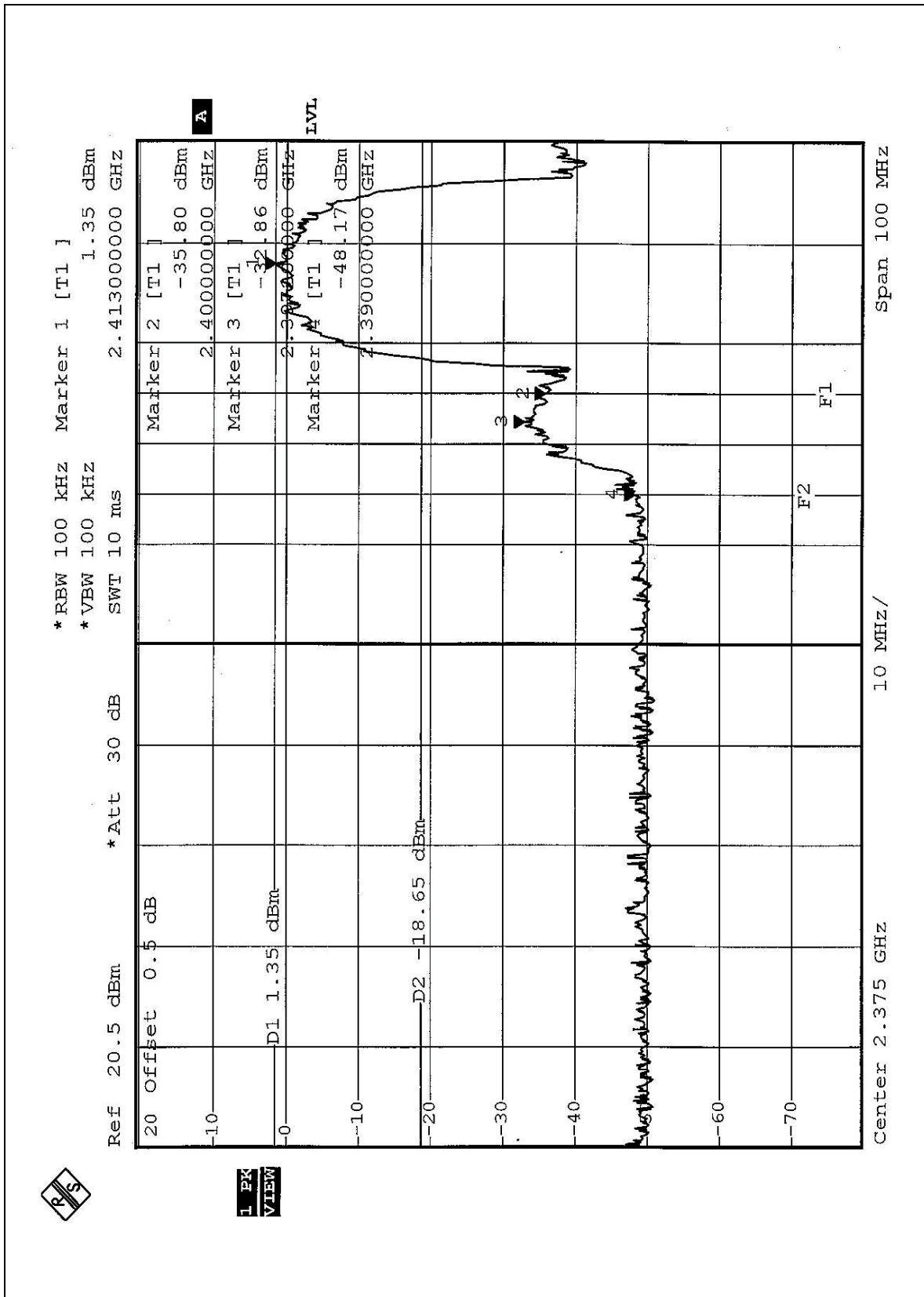


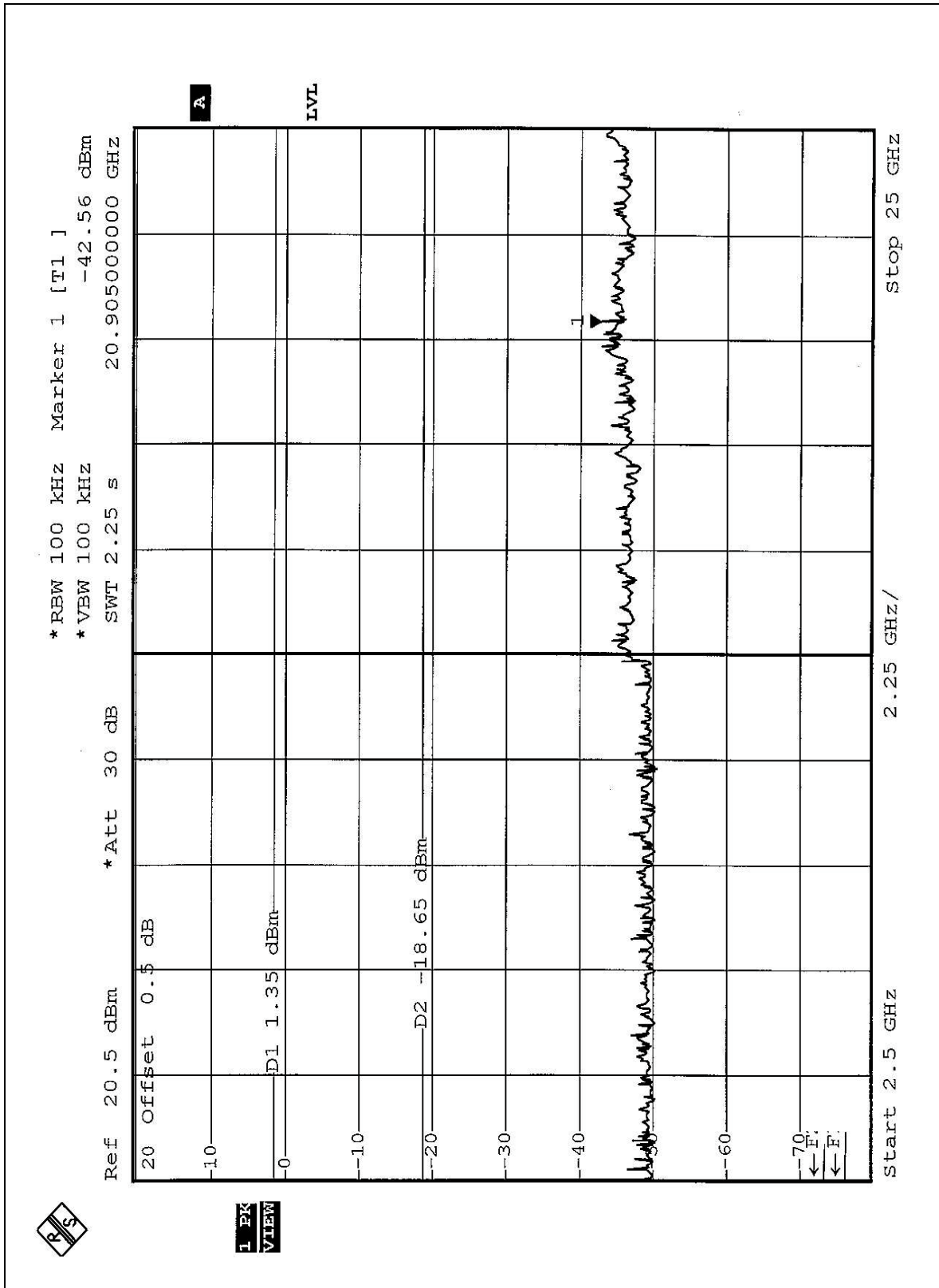
4.6.6 TEST RESULTS

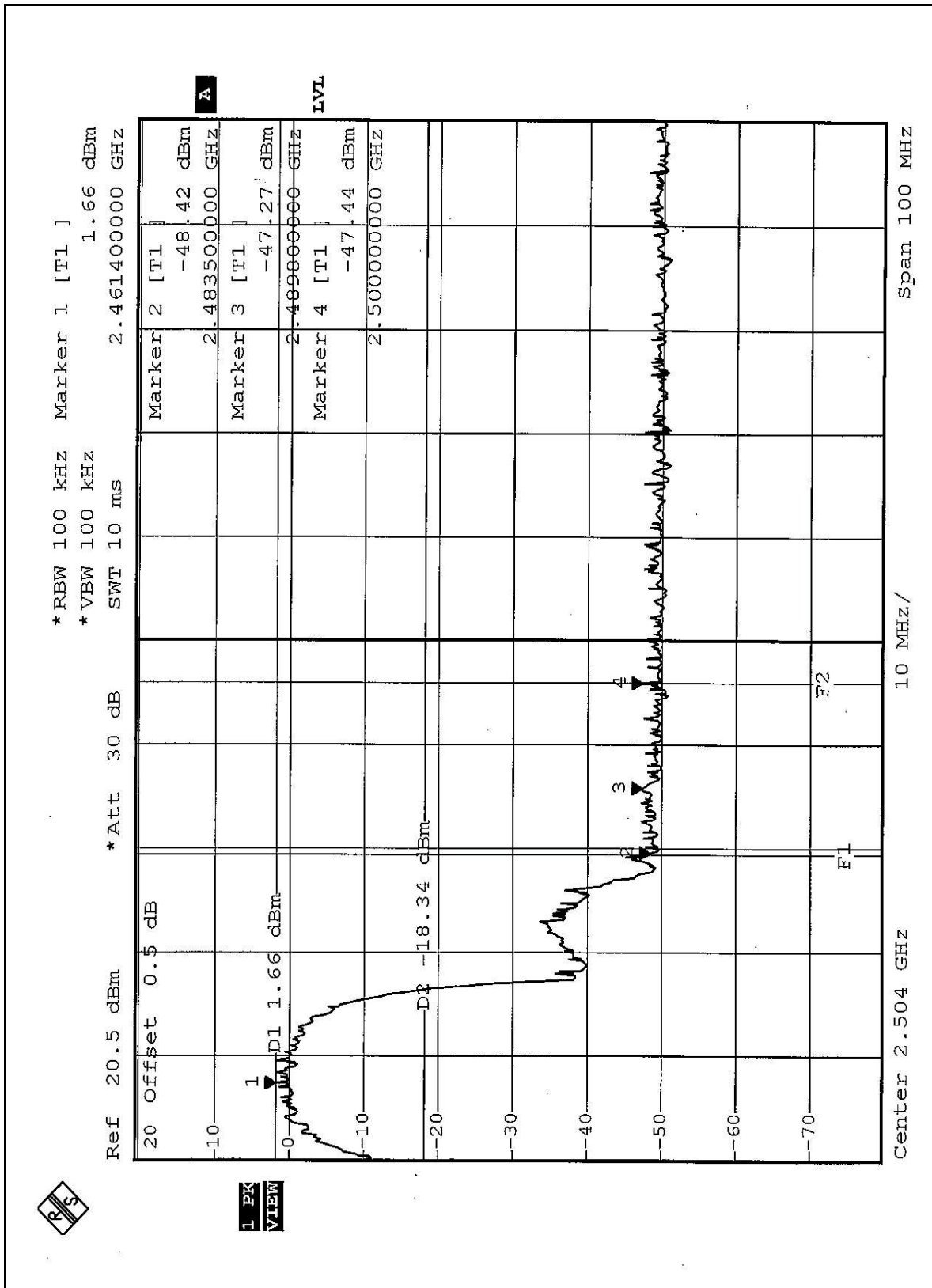
The spectrum plots are attached on the following 4 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

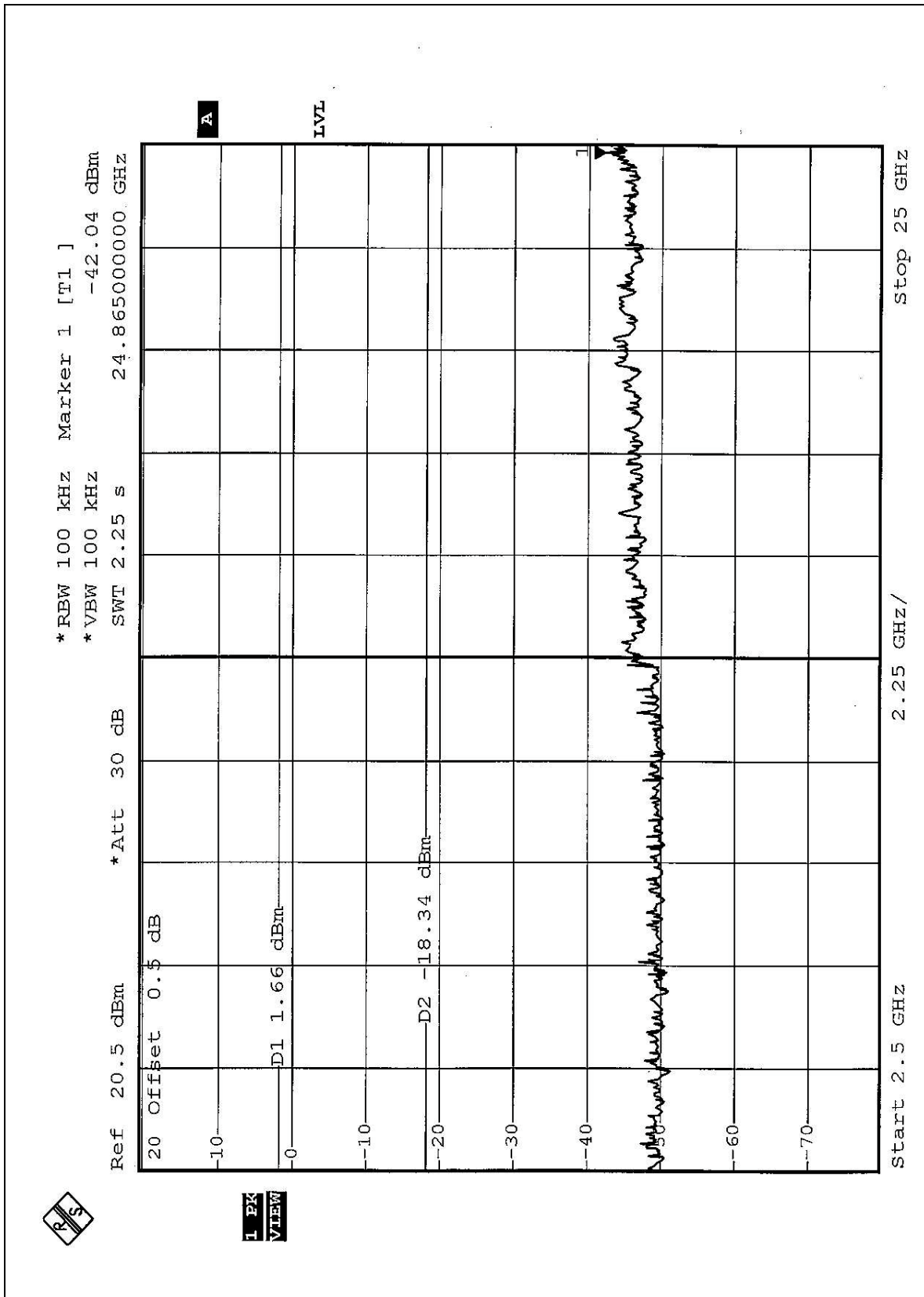
NOTE1: The band edge emission plot on the following 1 ~ 2 pages shows 49.52dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.25dBuV/m, so the maximum field strength in restrict band is $101.25 - 49.52 = 51.73$ dBuV/m which is under 54 dBuV/m limit.

NOTE2: The band edge emission plot on the following 3 ~ 4 pages shows 48.93dB delta between carrier maximum power and local maximum emission in restrict band (2.4898GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.95dBuV/m, so the maximum field strength in restrict band is $100.95 - 48.93 = 52.02$ dBuV/m which is under 54 dBuV/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 used in this product is Printed Antenna without antenna connector. The maximum Gain of the antenna is 2dBi only.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST (Test Mode A)



(Test Mode B)





6 INFORMATION ON THE TESTING LABORATORIES

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

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Linko RF & Telecom Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

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