

## 4.5 HOPPING CHANNEL SEPARATION

### 4.5.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or 20dB bandwidth (whichever is greater).

### 4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

#### NOTES:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

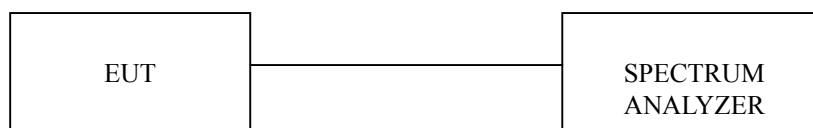
#### 4.5.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.5.5 TEST SETUP



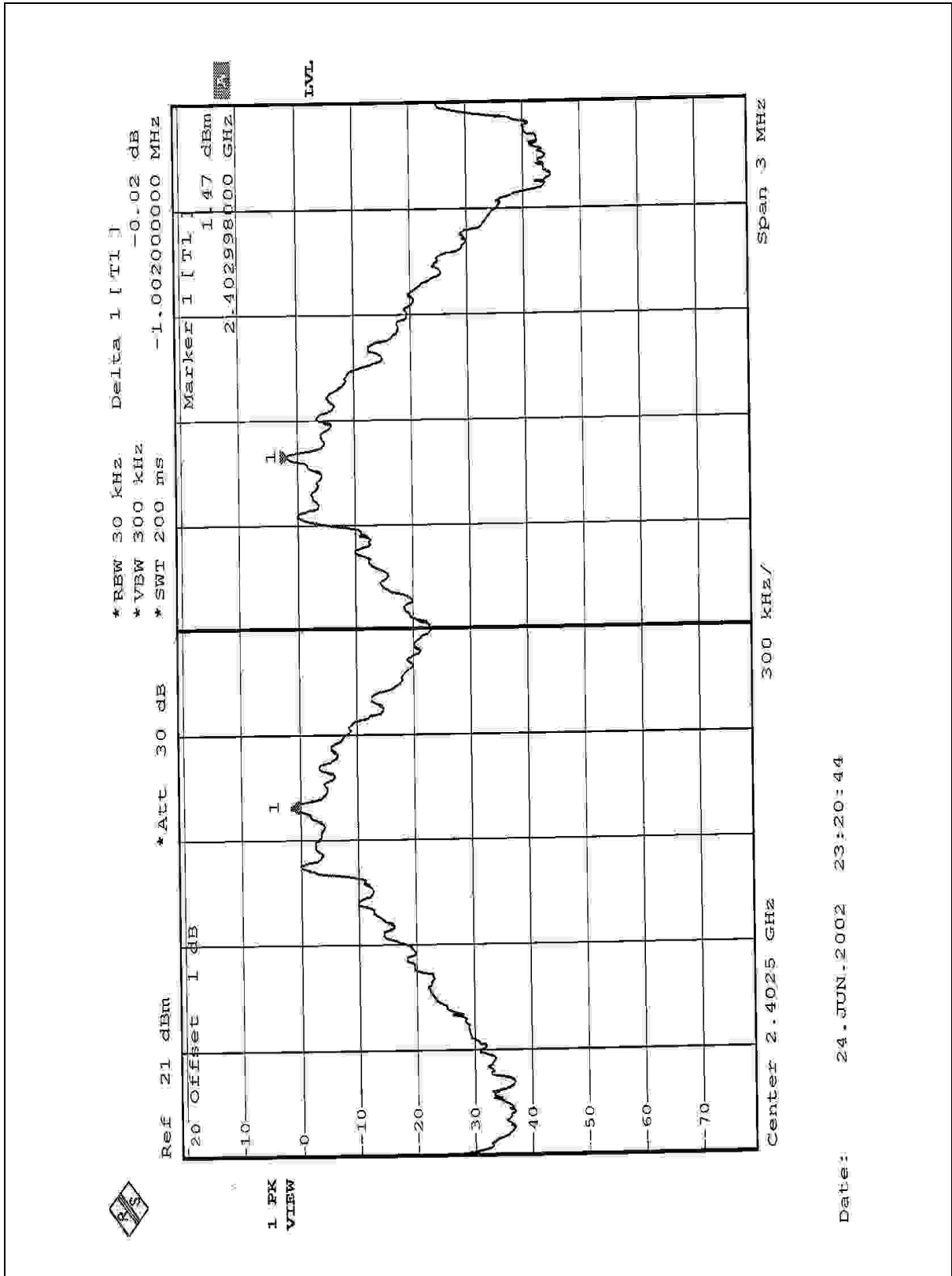


#### 4.5.6 TEST RESULTS

Channel	Frequency (MHz)	Adjacent Channel Separation	Minimum Limit (kHz)	Pass / Fail
0	2402	1MHz	864.00	PASS
39	2441	1MHz	846.00	PASS
78	2480	1MHz	864.00	PASS

The minimum limit is 20dB bandwidth. Test results please refer to next three pages.

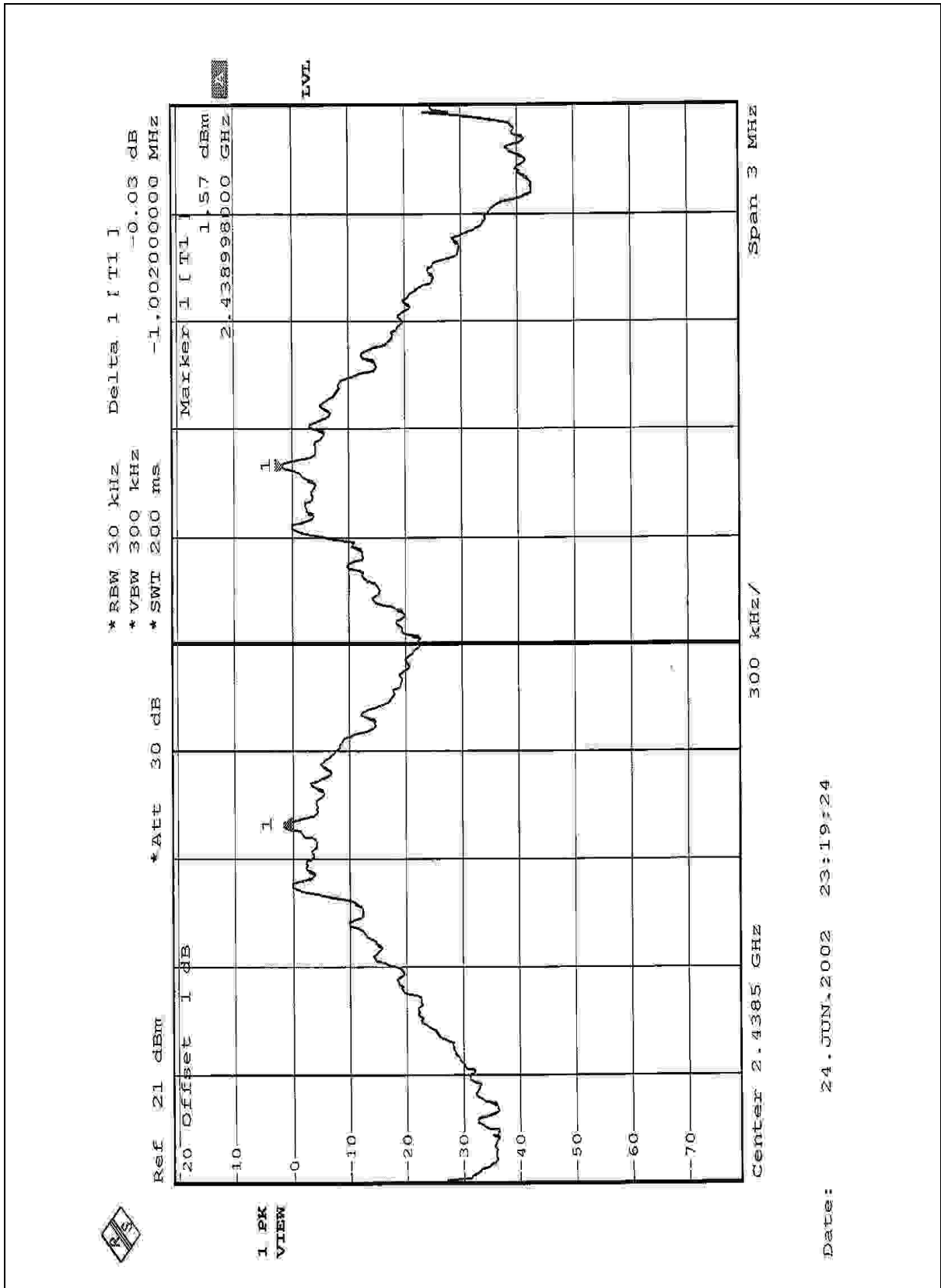
Channel 0



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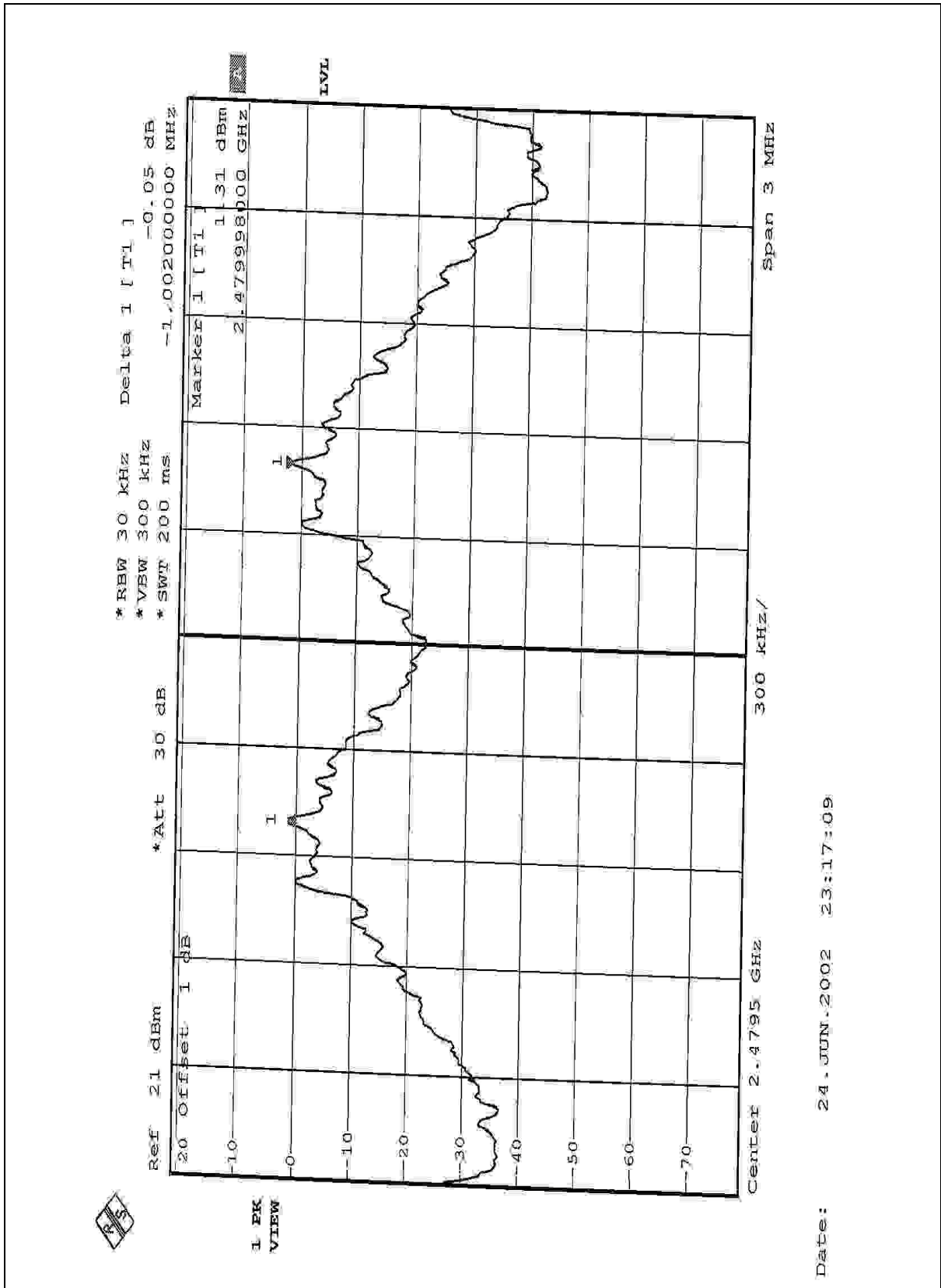


Channel 39





Channel 78



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## 4.6 MAXIMUM PEAK OUTPUT POWER

### 4.6.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Limit of Maximum Peak Output Power Measurement is 30dBm.

### 4.6.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

#### NOTES:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

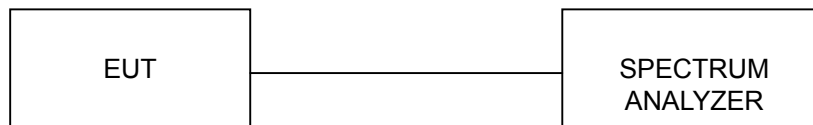
#### 4.6.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 2 MHz RBW and 3 MHz VBW.
4. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
5. Repeat above procedures until all frequencies measured were complete.

#### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.6.5 TEST SETUP



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



#### 4.6.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

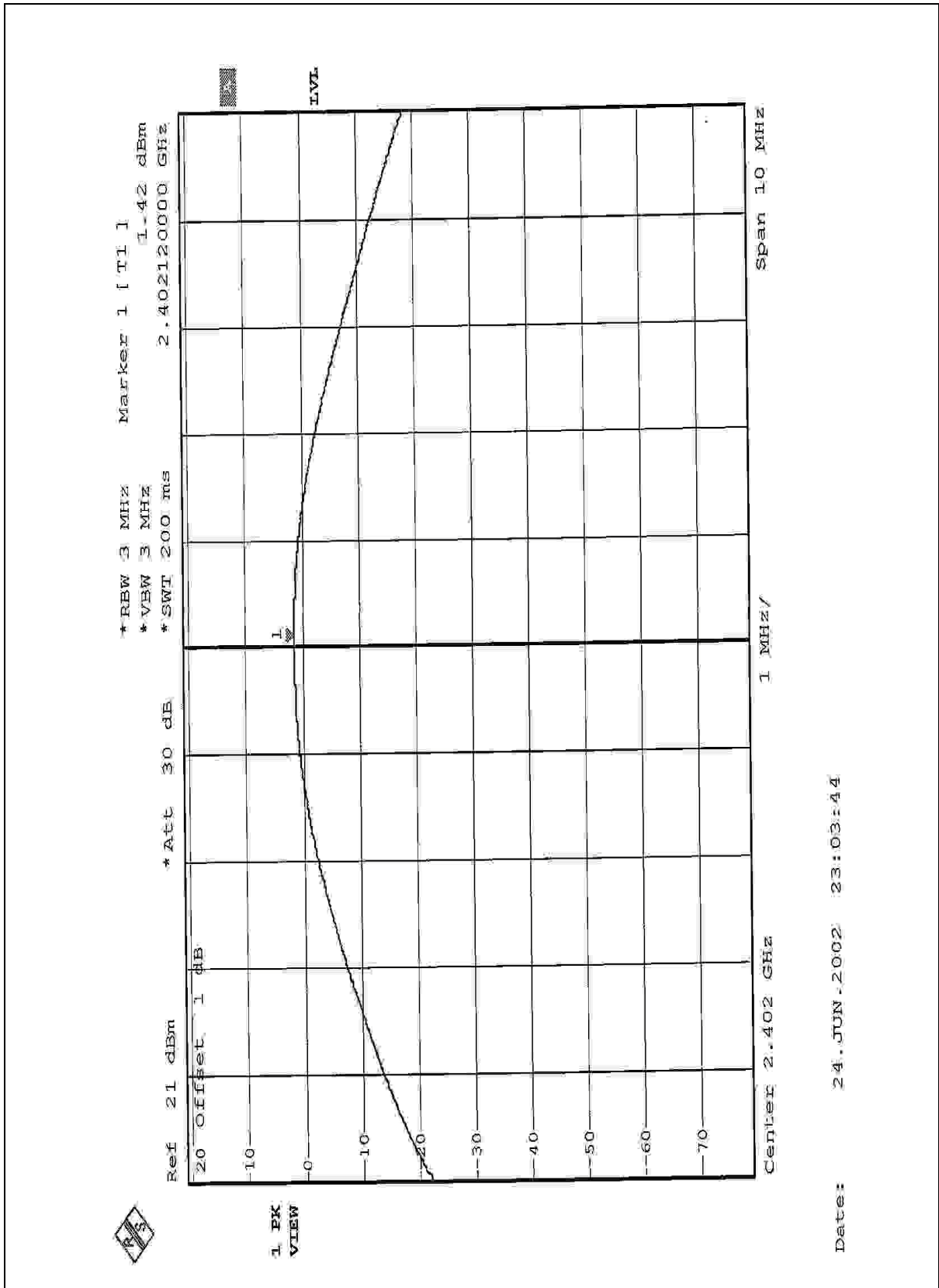
#### 4.6.7 TEST RESULTS

Output Power Into Antenna:

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	2402	1.42	30	PASS
39	2441	1.52	30	PASS
78	2480	1.21	30	PASS



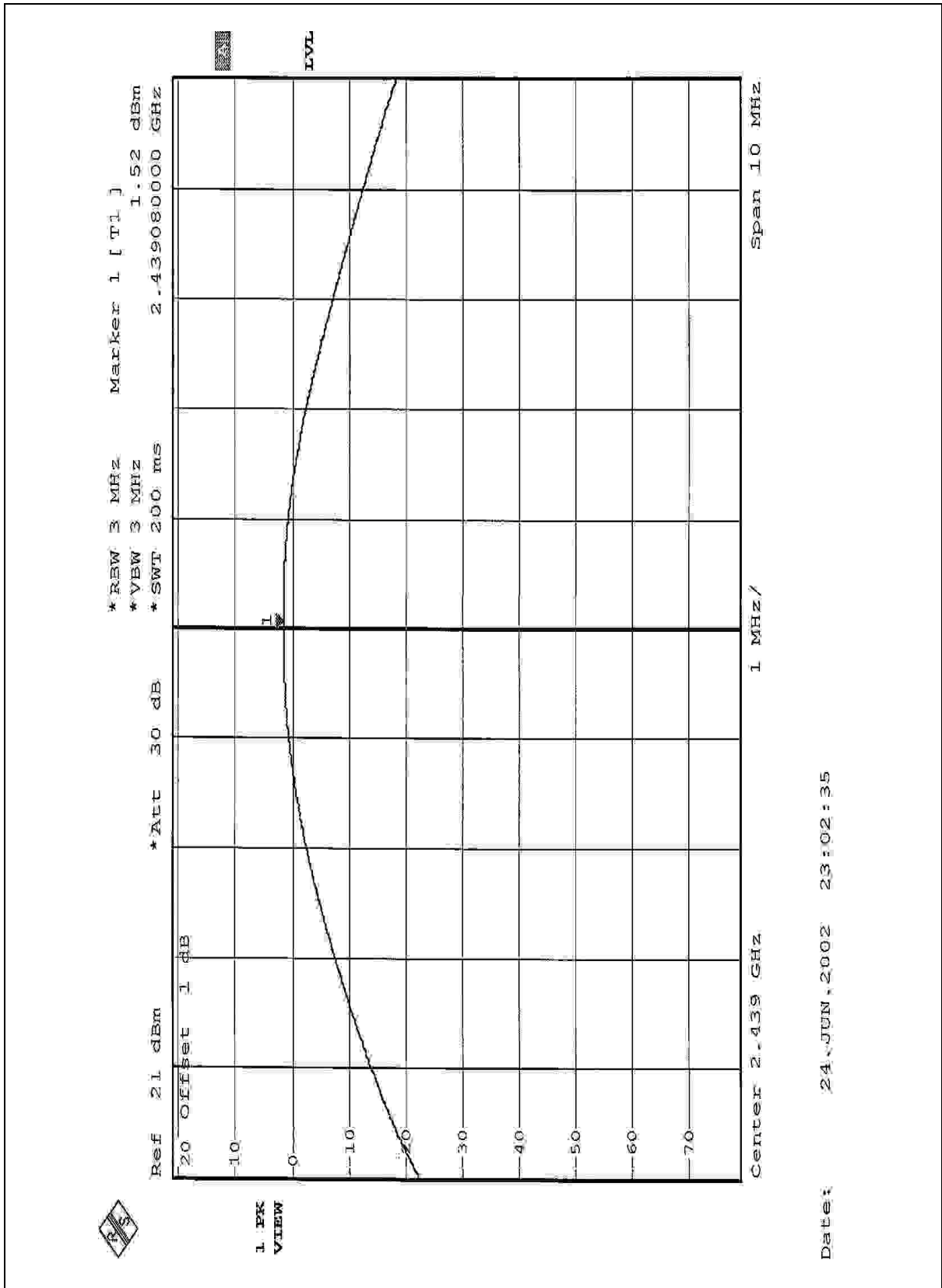
Channel 0



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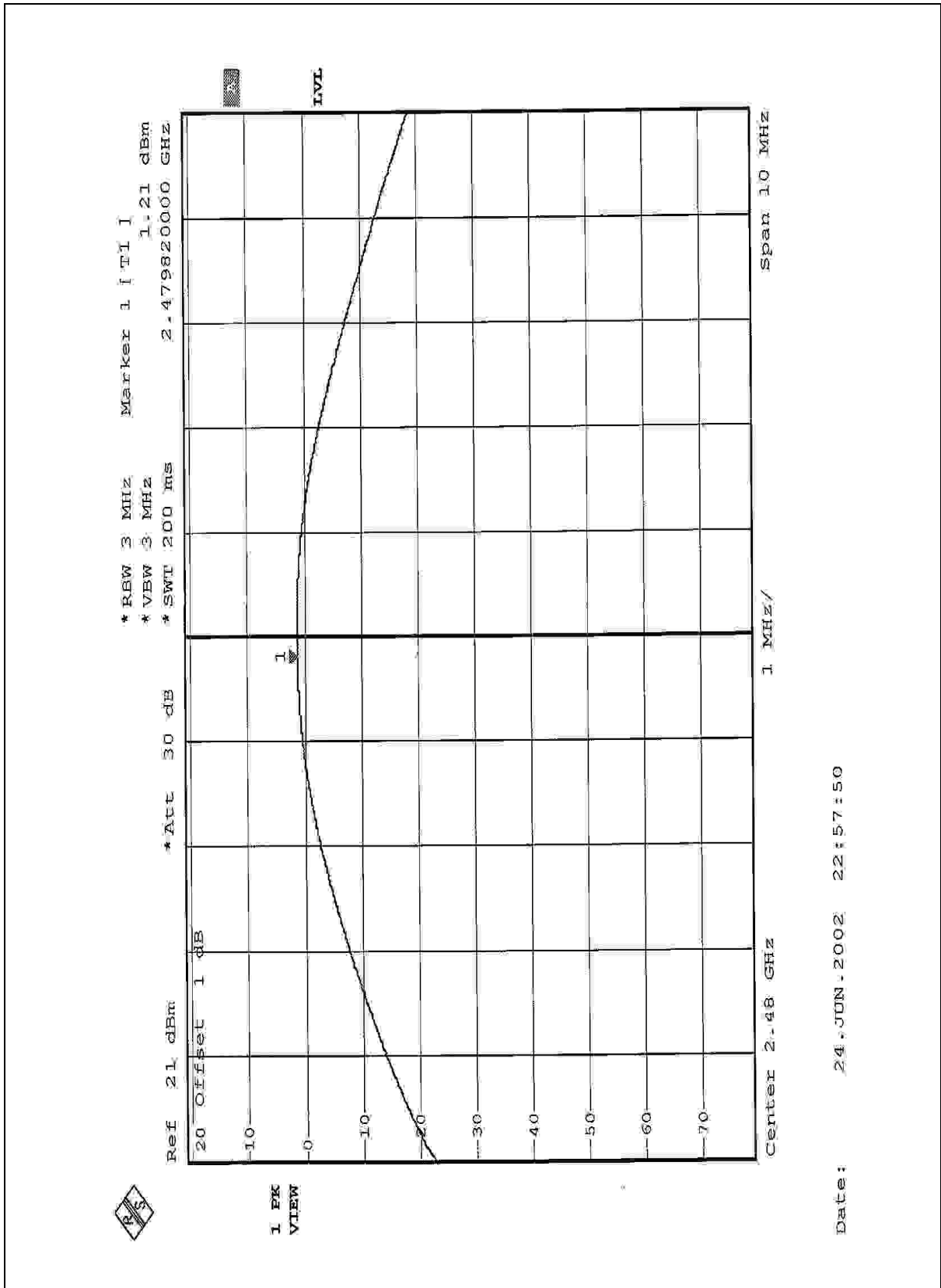
Channel 39



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Channel 78



Date: 24 JUN 2002 22:57:50

## 4.7 RADIATED EMISSION MEASUREMENT

### 4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength of Fundamental	
	uV/m	dBuV/m
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

**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.

## 4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* HP Spectrum Analyzer	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Oct. 30, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 9, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA

**NOTE:** 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

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

3. "\*" = These equipment are used for the final measurement.

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



#### 4.7.3 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.

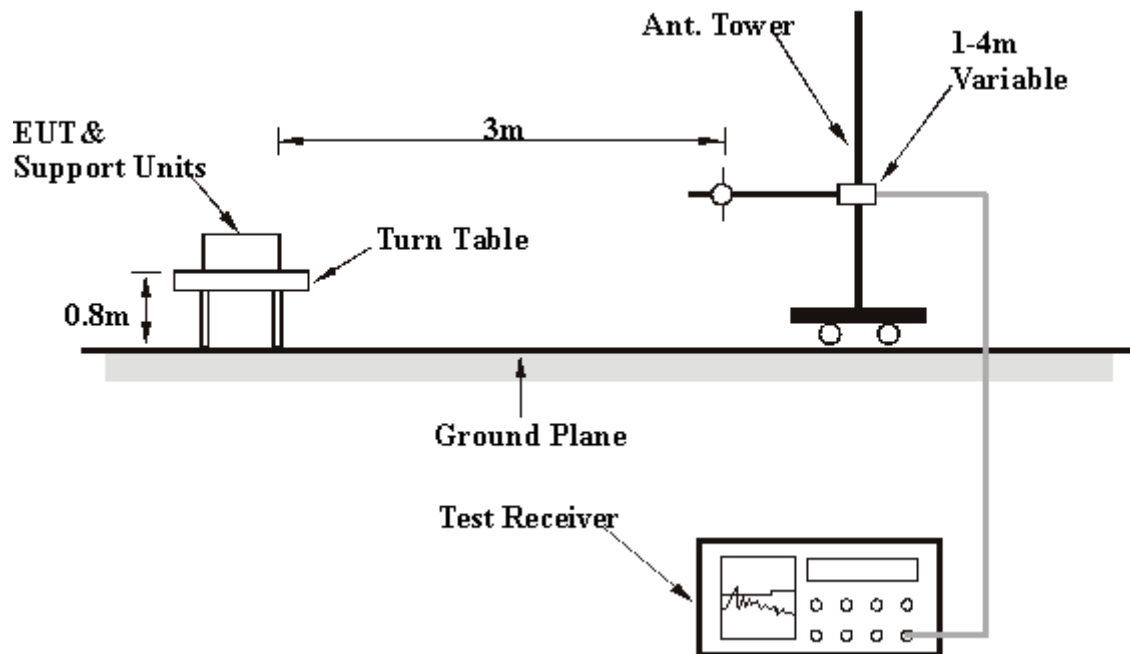
**NOTE:**

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.

#### 4.7.4 DEVIATION FROM TEST STANDARD

No deviation

## 4.7.5 TEST SETUP



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



## 4.7.6 TEST RESULTS

**Digital Portion:**

<b>EUT</b>	Bluetooth Compact Flash Card	<b>MODEL</b>	BT-0101
<b>MODE</b>	Channel 78	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	30 deg. C, 70%RH, 1050 hPa	<b>TESTED BY:</b> Bunny Yao	

**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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	80.00	18.9 QP	40.00	-21.10	1.05H	355	10.45	7.33	1.12	0.00	-8.45
2	112.00	14.3 QP	43.50	-29.20	1.24H	284	1.93	11.18	1.19	0.00	-12.37
3	144.00	22.5 QP	43.50	-21.00	1.77H	12	10.64	10.58	1.28	0.00	-11.86
4	240.00	25.1 QP	46.00	-20.90	1.40H	224	12.02	11.41	1.67	0.00	-13.08
5	288.00	22.3 QP	46.00	-23.70	1.44H	137	7.58	12.88	1.83	0.00	-14.73
6	300.00	30.0 QP	46.00	-16.00	1.56H	94	14.94	13.18	1.88	0.00	-15.07
7	336.00	23.7 QP	46.00	-22.30	1.45H	182	7.73	13.92	2.05	0.00	-15.98
8	384.00	18.7 QP	46.00	-27.30	1.36H	144	1.05	15.50	2.15	0.00	-17.66
9	432.00	24.0 QP	46.00	-22.00	1.08H	11	5.44	16.28	2.28	0.00	-18.57
10	457.00	30.6 QP	46.00	-15.40	1.02H	13	11.75	16.49	2.36	0.00	-18.86
11	528.00	20.9 QP	46.00	-25.10	1.03H	96	0.66	17.62	2.62	0.00	-20.25
12	720.00	26.3 QP	46.00	-19.70	1.41H	7	3.34	19.68	3.28	0.00	-22.96

<b>EUT</b>	Bluetooth Compact Flash Card	<b>MODEL</b>	BT-0101
<b>MODE</b>	Channel 78	<b>FREQUENCY RANGE</b>	30-1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	30 deg. C, 70%RH, 1050 hPa	<b>TESTED BY:</b> Bunny Yao	

**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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	80.00	20.4 QP	40.00	-19.60	1.24V	57	11.95	7.33	1.12	0.00	-8.45
2	112.00	23.6 QP	43.50	-19.90	1.05V	74	11.23	11.18	1.19	0.00	-12.37
3	128.00	21.1 QP	43.50	-22.40	1.06V	168	8.50	11.37	1.23	0.00	-12.60
4	144.00	20.6 QP	43.50	-22.90	1.14V	297	8.74	10.58	1.28	0.00	-11.86
5	240.00	24.3 QP	46.00	-21.70	1.75V	15	11.22	11.41	1.67	0.00	-13.08
6	288.00	20.3 QP	46.00	-25.70	1.67V	283	5.58	12.88	1.83	0.00	-14.72
7	336.00	21.2 QP	46.00	-24.80	1.64V	130	5.23	13.92	2.05	0.00	-15.97
8	384.00	19.9 QP	46.00	-26.10	1.34V	106	2.25	15.50	2.15	0.00	-17.65
9	432.00	22.5 QP	46.00	-23.50	1.60V	356	3.94	16.28	2.28	0.00	-18.56
10	528.00	23.5 QP	46.00	-22.50	1.20V	134	3.26	17.62	2.62	0.00	-20.24
11	720.00	23.0 QP	46.00	-23.00	1.14V	17	0.04	19.68	3.28	0.00	-22.96

**RF Portion :**

<b>EUT</b>	Bluetooth Compact Flash Card	<b>MODEL</b>	BT-0101
<b>MODE</b>	Channel 0	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	30 deg. C, 70%RH, 1050 hPa	<b>TESTED BY:</b> Bunny Yao	

**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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2402.00	90.2 PK	-	-	1.31H	92	58.02	27.11	5.10	0.00	-32.21
2	*2402.00	74.5 AV	-	-	1.31H	92	42.27	27.11	5.10	0.00	-32.21
3	4804.00	44.9 AV	54.00	-9.10	1.09H	64	40.88	31.43	7.23	34.63	-4.02
4	4804.00	54.9 PK	74.00	-19.10	1.09H	64	50.89	31.43	7.23	34.63	-4.02

**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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2402.00	88.8 PK	-	-	1.04V	312	56.56	27.11	5.10	0.00	-32.21
2	*2402.00	73.9 AV	-	-	1.04V	312	41.73	27.11	5.10	0.00	-32.21
3	4804.00	44.6 AV	54.00	-9.40	1.29V	54	40.60	31.43	7.23	34.63	-4.02
4	4804.00	54.2 PK	74.00	-19.80	1.29V	54	50.20	31.43	7.23	34.63	-4.02

**NOTE:**

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss  
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

<b>EUT</b>	Bluetooth Compact Flash Card	<b>MODEL</b>	BT-0101
<b>MODE</b>	Channel 39	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	30 deg. C, 70%RH, 1050 hPa	<b>TESTED BY:</b> Bunny Yao	

#### 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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2441.00	93.2 PK	-	-	1.35H	91	60.99	27.11	5.10	0.00	-32.21
2	*2441.00	77.2 AV	-	-	1.35H	91	45.00	27.11	5.10	0.00	-32.21
3	4882.00	43.9 AV	54.00	-10.10	1.34H	48	39.80	31.47	7.21	34.63	-4.05
4	4882.00	53.2 PK	74.00	-20.80	1.34H	48	49.10	31.47	7.21	34.63	-4.05

#### 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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2441.00	90.5 PK	-	-	1.08V	102	58.11	27.33	5.08	0.00	-32.40
2	*2441.00	74.7 AV	-	-	1.08V	102	42.30	27.33	5.08	0.00	-32.40
3	4882.00	45.0 AV	54.00	-9.00	1.76V	52	40.98	31.47	7.21	34.63	-4.05
4	4882.00	55.2 PK	74.00	-18.80	1.76V	52	51.13	31.47	7.21	34.63	-4.05

#### NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss  
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

<b>EUT</b>	Bluetooth Compact Flash Card	<b>MODEL</b>	BT-0101
<b>MODE</b>	Channel 78	<b>FREQUENCY RANGE</b>	Above 1000 MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>ENVIRONMENTAL CONDITIONS</b>	30 deg. C, 70%RH, 1050 hPa	<b>TESTED BY:</b> Bunny Yao	

#### 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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2480.00	89.1 PK	-	-	1.26H	27	56.52	27.54	5.06	0.00	-32.59
2	*2480.00	74.2 AV	-	-	1.30H	27	41.65	27.54	5.06	0.00	-32.59
3	4960.00	42.1 AV	54.00	-11.90	1.46H	54	37.90	31.55	7.26	34.61	-4.21
4	4960.00	52.1 PK	74.00	-21.90	1.46H	54	47.85	31.55	7.26	34.61	-4.21

#### 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)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	*2480.00	89.7 PK	-	-	1.07V	97	57.10	27.54	5.06	0.00	-32.59
2	*2480.00	74.9 AV	-	-	1.07V	97	42.30	27.54	5.06	0.00	-32.59
3	4960.00	44.6 AV	54.00	-9.40	1.23V	93	40.44	31.55	7.26	34.61	-4.21
4	4960.00	54.8 PK	74.00	-19.2	1.23V	93	50.60	31.55	7.26	34.61	-4.21

#### NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss  
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. " \* " : Fundamental frequency
5. The other emission levels were very low against the limit.

## 4.8 BAND EDGES MEASUREMENT

### 4.8.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RB).

### 4.8.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

#### Notes:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

### 4.8.3 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 kHz bandwidth from band edge. The band edges was measured and recorded.

### 4.8.4 DEVIATION FROM TEST STANDARD

No deviation



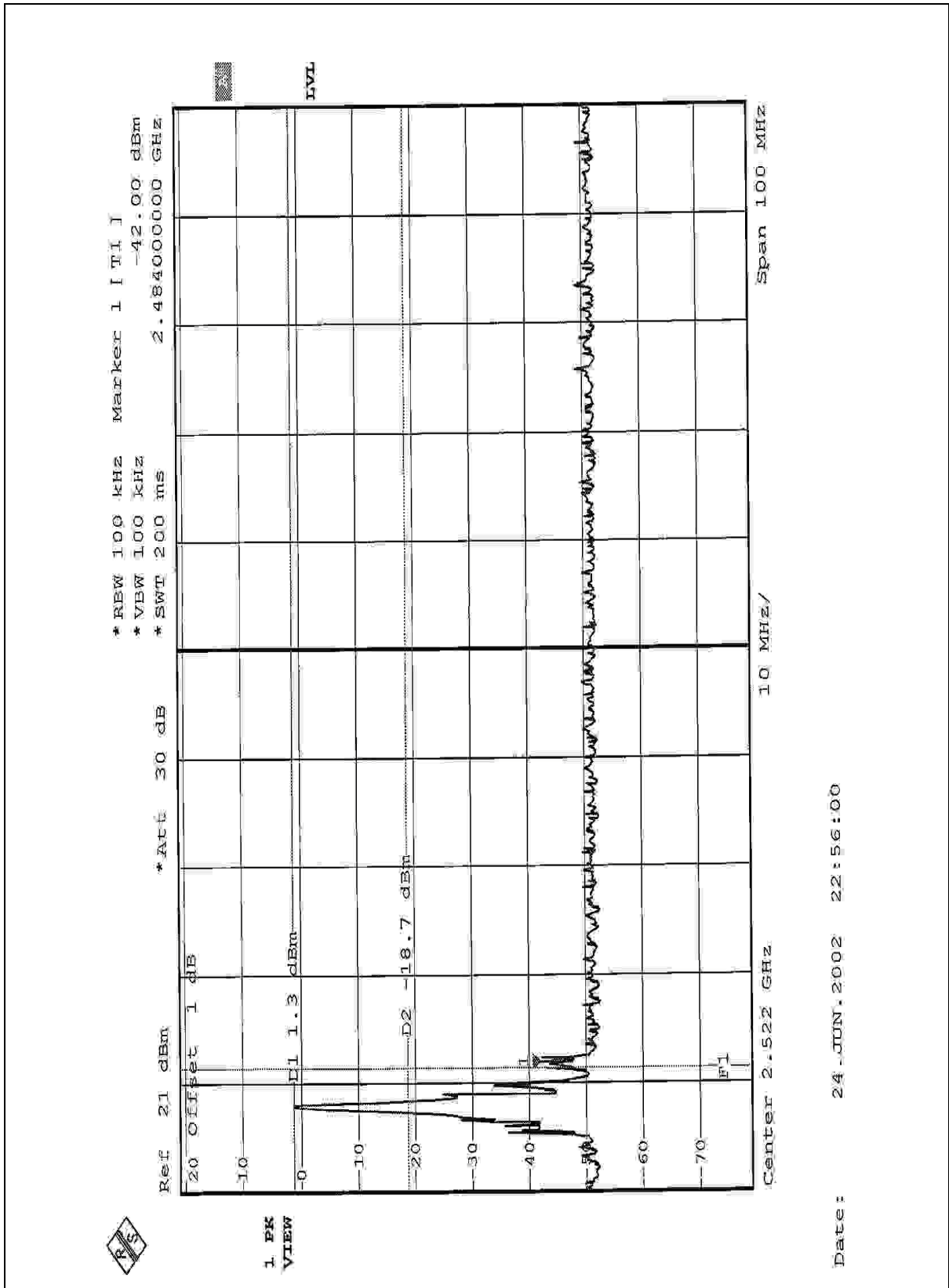
#### 4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

#### 4.8.6 TEST RESULTS

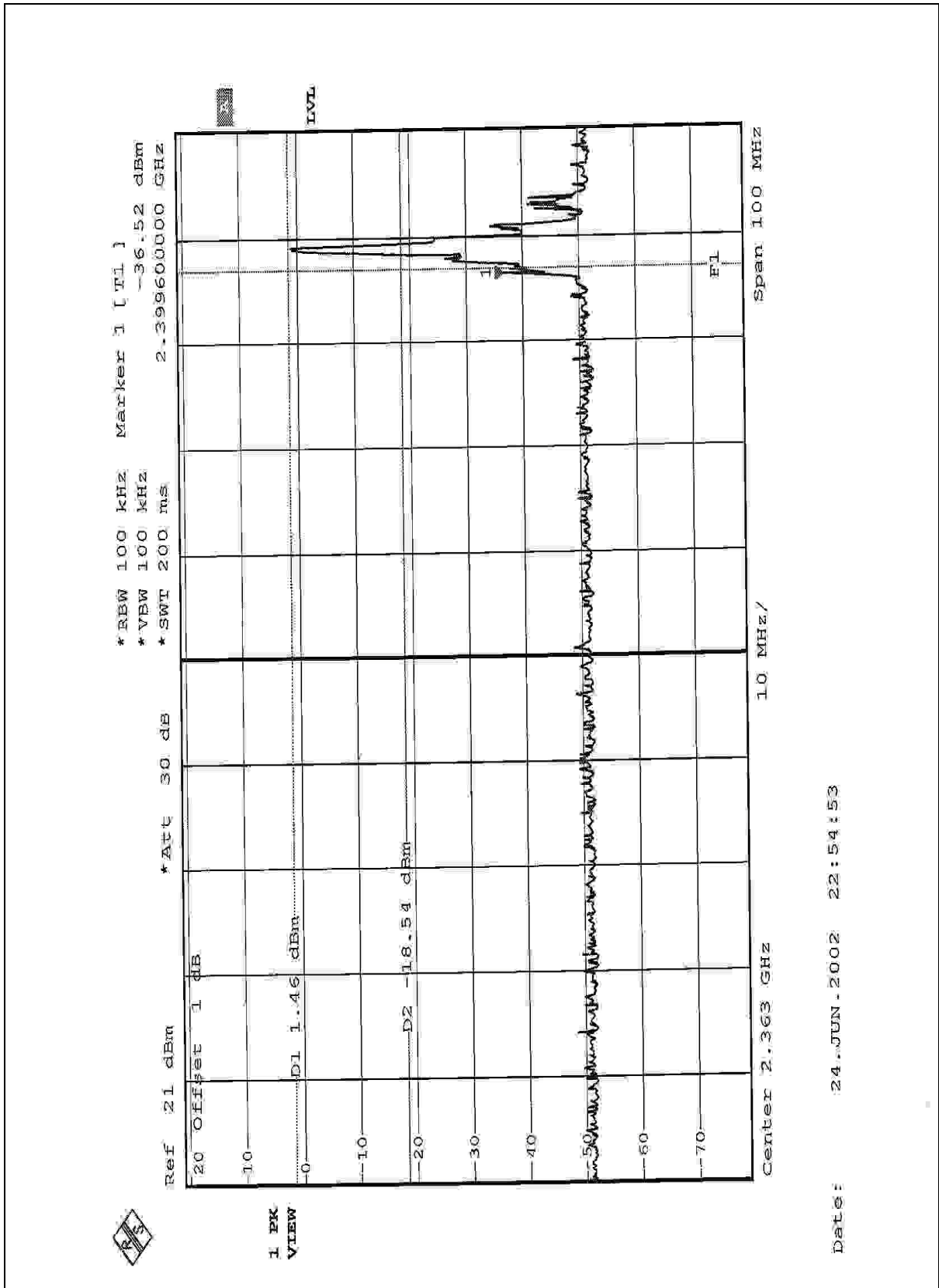
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

**NOTE:** The band edge emission plot on the following 2 pages shows 43.3dB delta between carrier maximum power and local maximum emission in restrict band (2.4840GHz). The emission of carrier strength list in the test result of channel 78 at the item 4.7.6 (Page 54) is 74.9dBuV/m, so the maximum field strength in restrict band is  $74.9 - 43.3 = 31.6$  dBuV/m which is under 54 dBuV/m limit.



Date: 24 JUN 2002 22:56:00





Date: 24 JUN 2002 22:54:53



## **4.9 ANTENNA REQUIREMENT**

### **4.9.1 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 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **4.9.2 ANTENNA CONNECTED CONSTRUCTION**

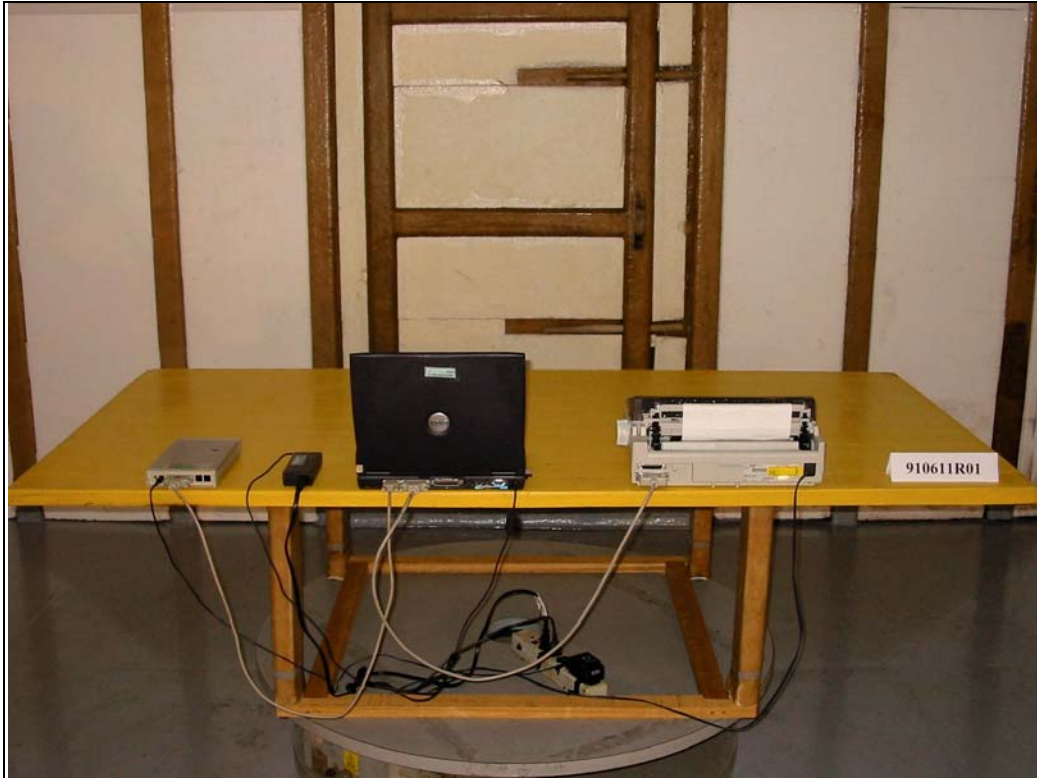
The antenna used in this product is Printed Antenna. There is no Antenna connector. The maximum Gain of this antenna is only 0dBi.

## 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:

<b>USA</b>	FCC, NVLAP
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO
<b>R.O.C.</b>	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](http://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.