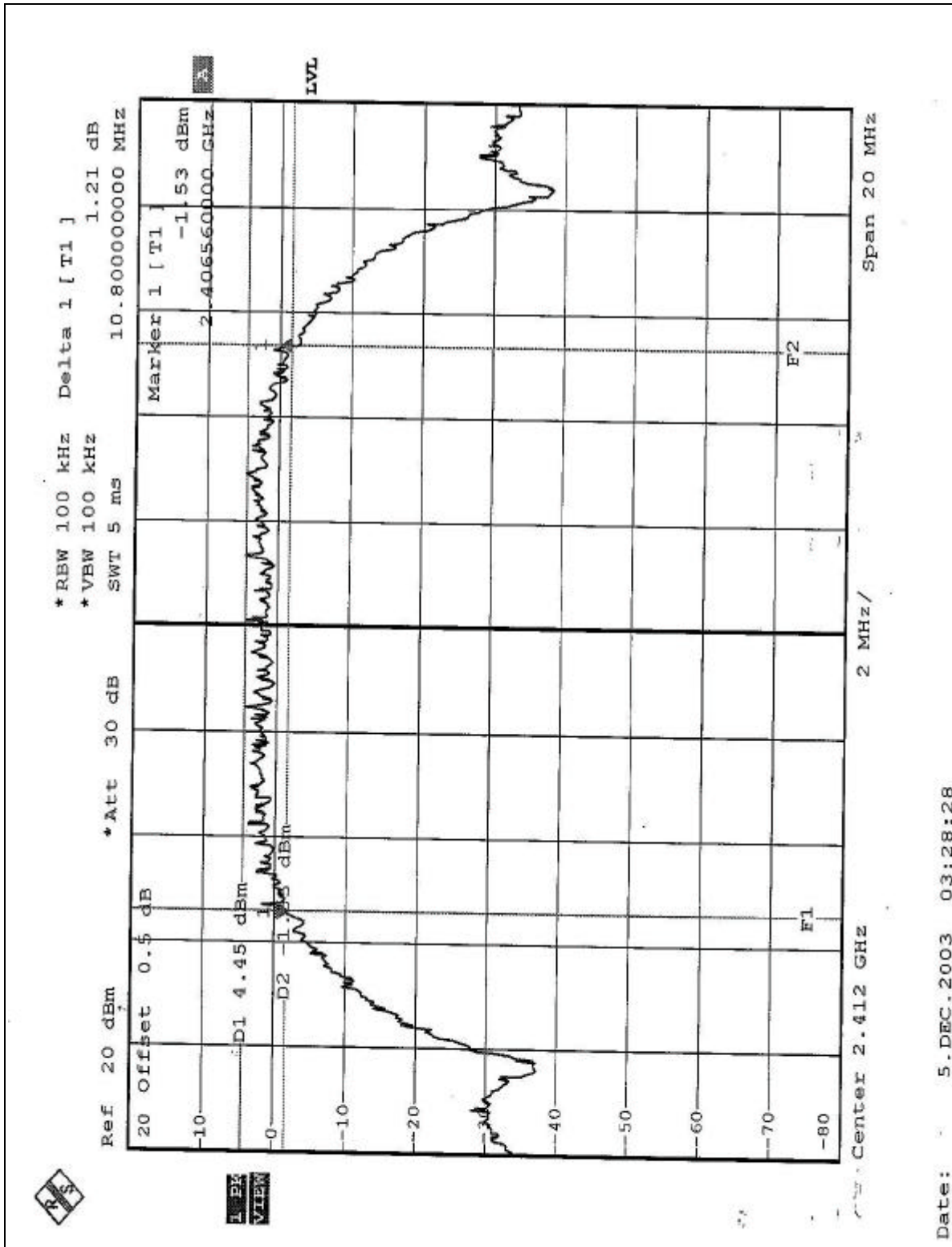
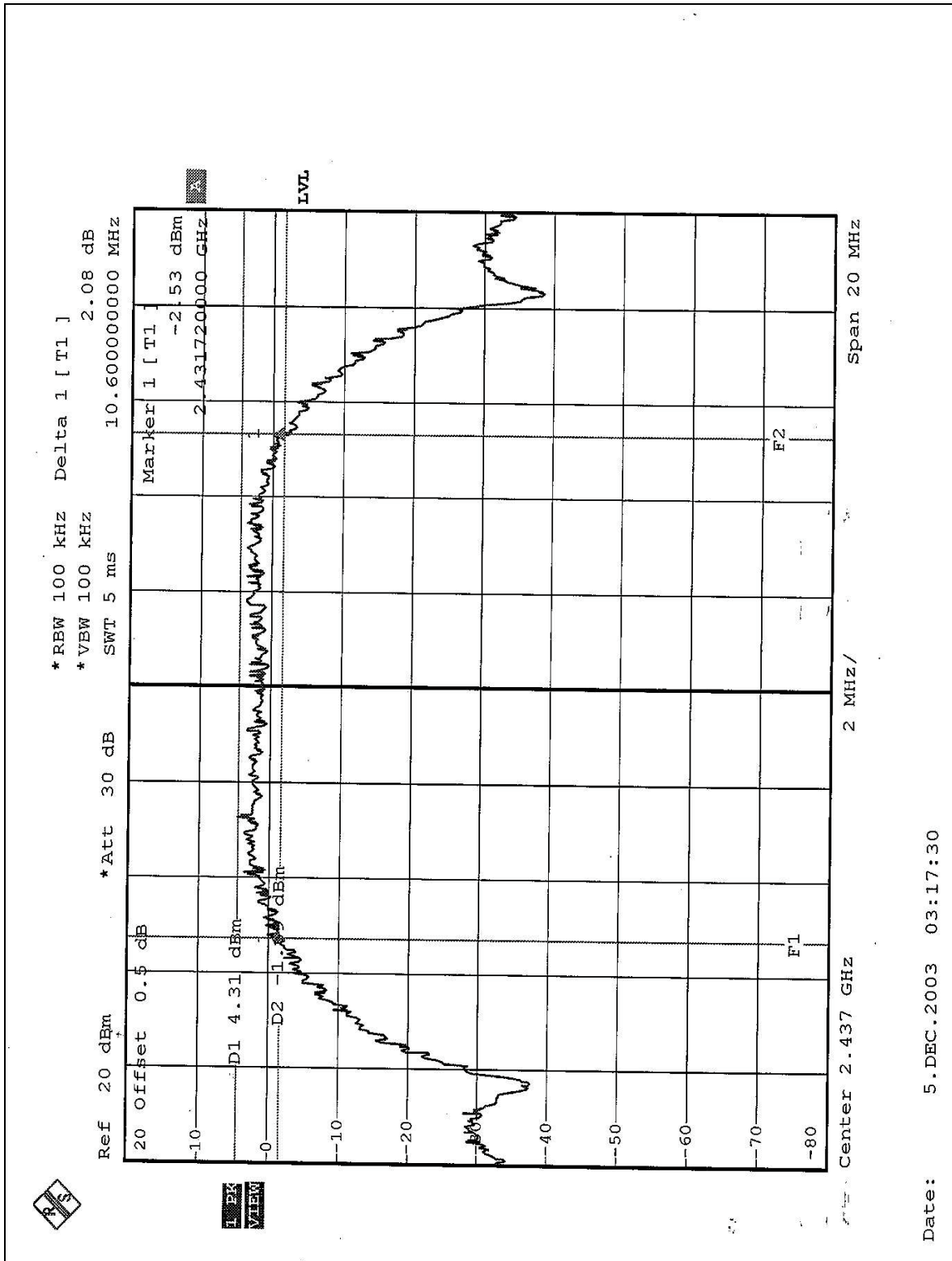


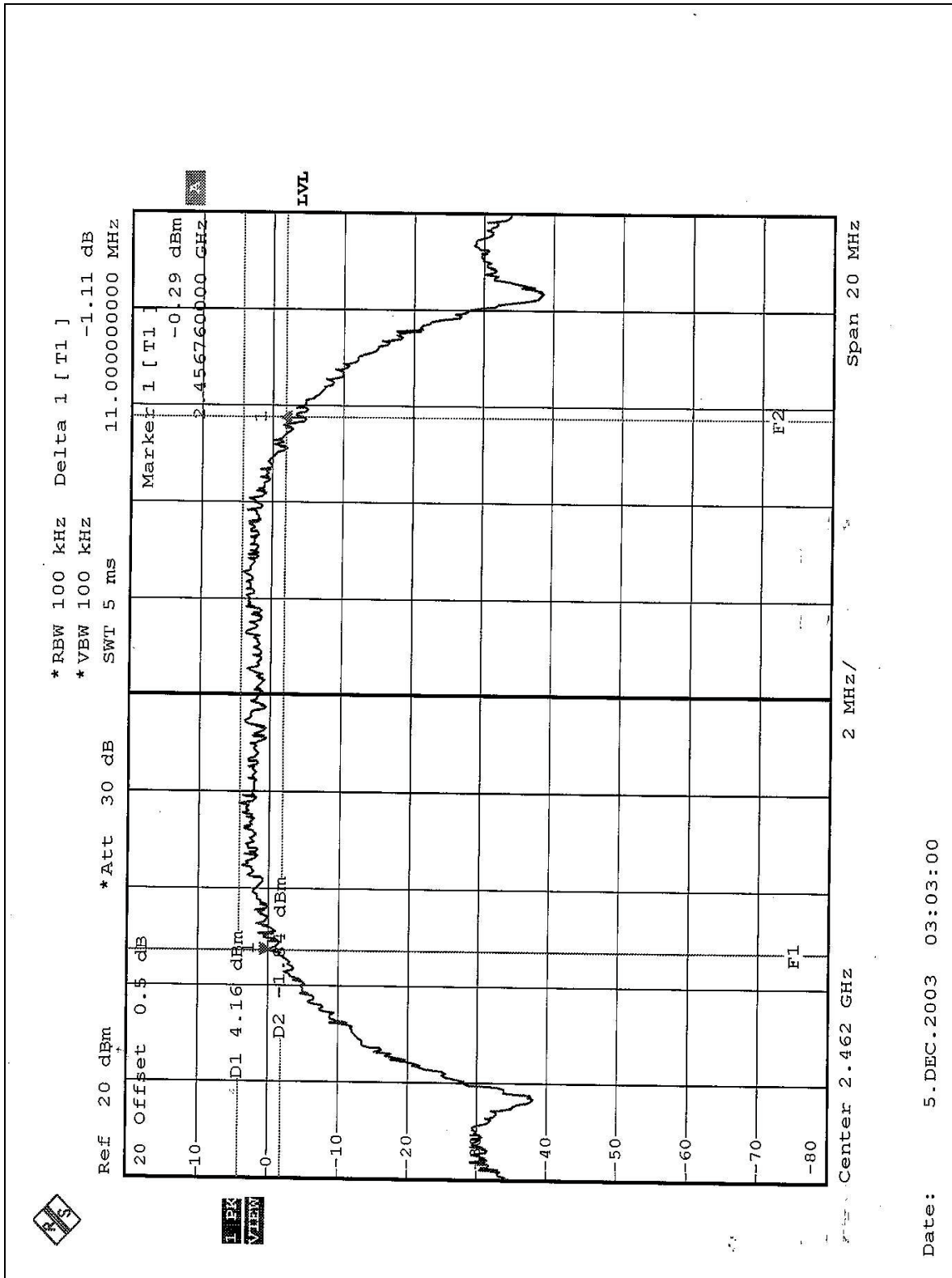
CH1



CH6



CH11



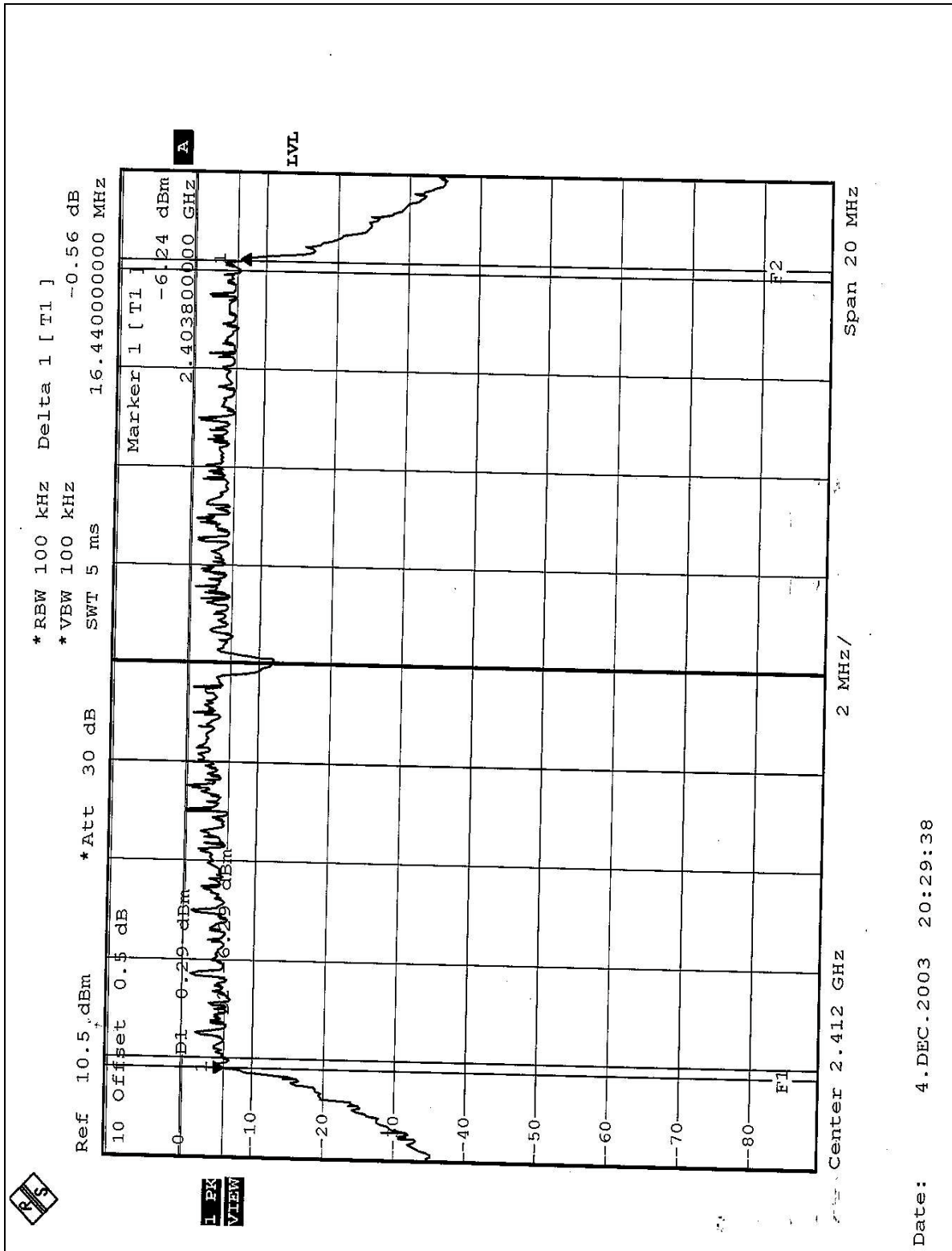
Date: 5.DEC.2003 03:03:00



EUT	802.11g Wireless Ethernet Bridge	MODEL	USR5430
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Martin Lee

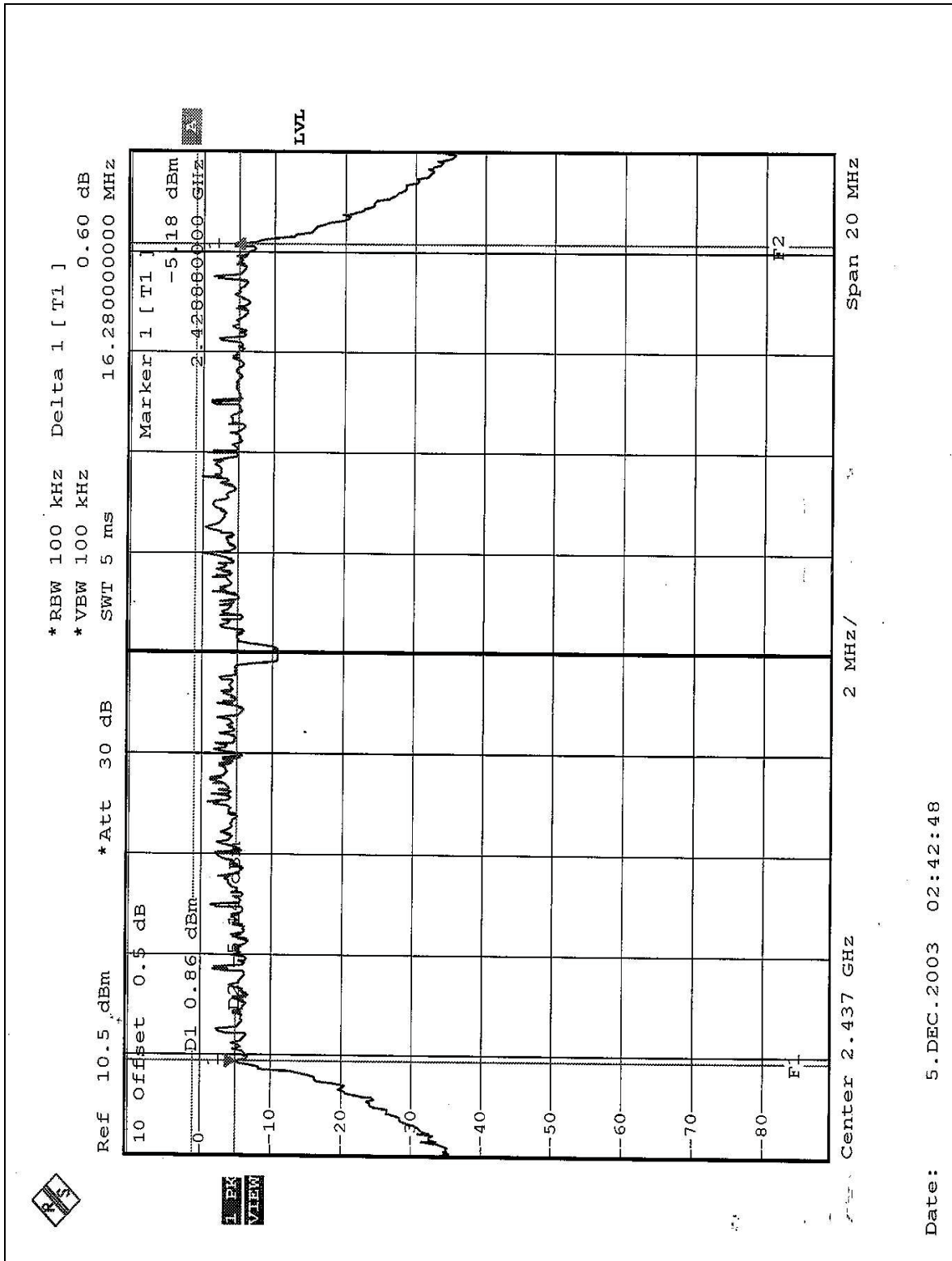
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.44	0.5	PASS
6	2437	16.28	0.5	PASS
11	2462	16.28	0.5	PASS

CH1

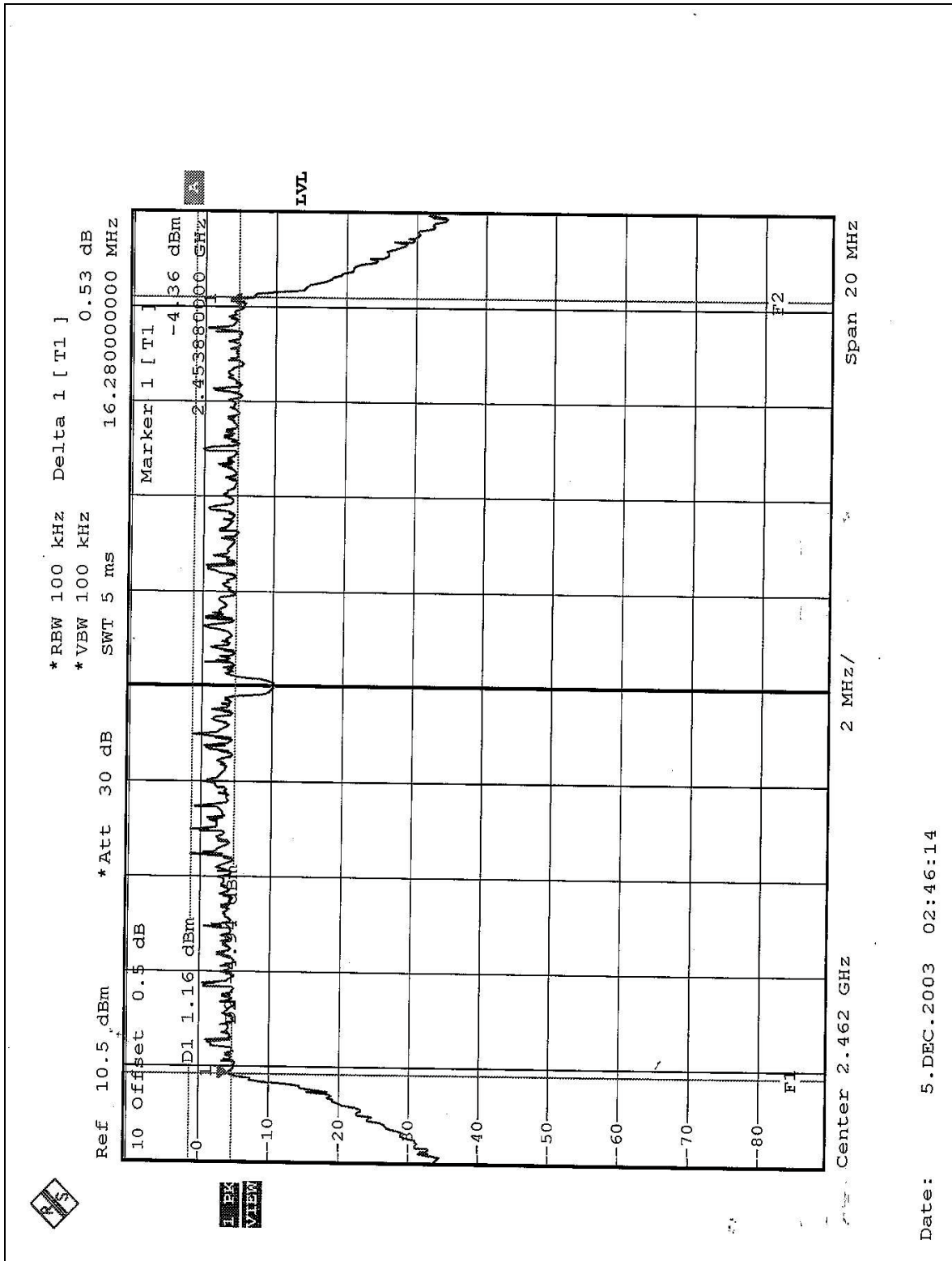




CH6



CH11



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004
R&S SIGNAL GENERATOR	SMP04	100011	May 28, 2004
TEKTRONIX OSCILLOSCOPE	TDS 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	802.11g Wireless Ethernet Bridge	MODEL	USR5430
MODE	CCK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	27deg. C, 58%RH, 991hPa	TESTED BY	Martin Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.1	30	PASS
6	2437	15.2	30	PASS
11	2462	15.1	30	PASS

EUT	802.11g Wireless Ethernet Bridge	MODEL	USR5430
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	27deg. C, 58%RH, 991hPa	TESTED BY	Martin Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	14.9	30	PASS
6	2437	15.1	30	PASS
11	2462	15.0	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
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

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

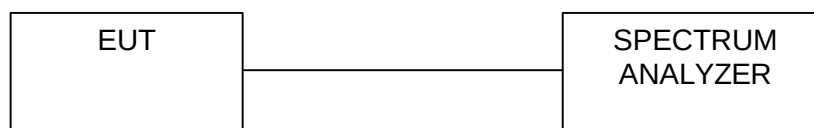
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

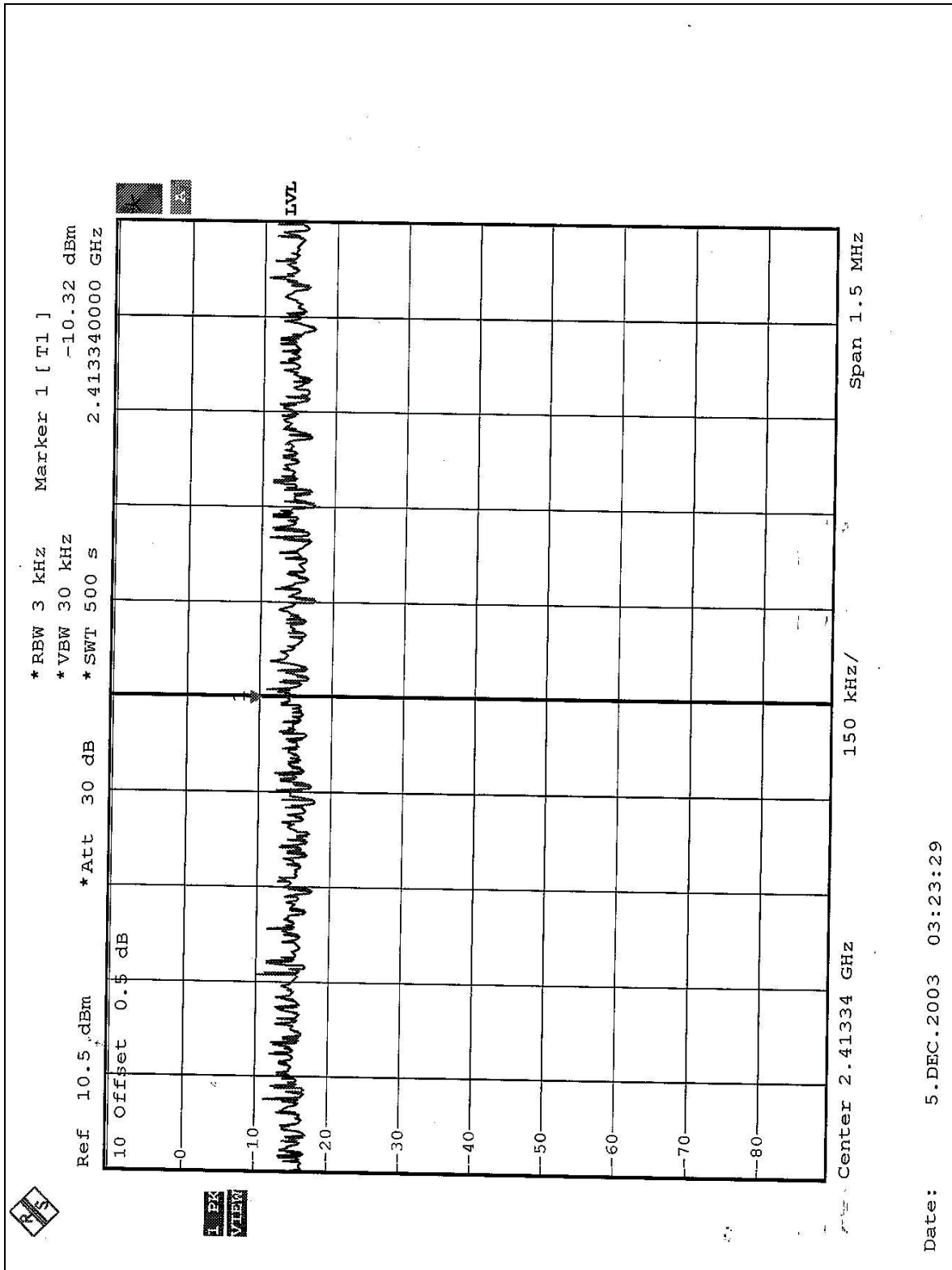
Same as 4.3.6

4.5.7 TEST RESULTS

EUT	802.11g Wireless Ethernet Bridge	MODEL	USR5430
MODE	CCK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Martin Lee

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.32	8	PASS
6	2437	-10.11	8	PASS
11	2462	-10.09	8	PASS

CH1



1 PK VIEW

Ref 10.5 dBm *** Att 30 dB** *** RBW 3 kHz** **Marker 1 [T1]**
*** VBW 30 kHz** *** SWT 500 s** **-10.11 dBm**
Center 2.438298 GHz **150 kHz/** **Span 1.5 MHz**

The figure is a spectrum plot with a grid. The vertical axis is labeled with dB values: 10, 0, -10, -20, -30, -40, -50, -60, -70, -80. The horizontal axis is labeled with frequency values: 10, Offset 0.5 dB, and Center 2.438298 GHz. A signal is visible at -10.11 dBm, marked with a vertical line and a horizontal line. The signal is labeled with a handwritten 'LVL' and a handwritten '10.5 dBm'. The plot also shows a handwritten '1 PK VIEW' in the top left corner. The plot parameters are: * RBW 3 kHz, * VBW 30 kHz, * SWT 500 s, * Att 30 dB, Marker 1 [T1], -10.11 dBm, Center 2.438298 GHz, 150 kHz/ Span 1.5 MHz.

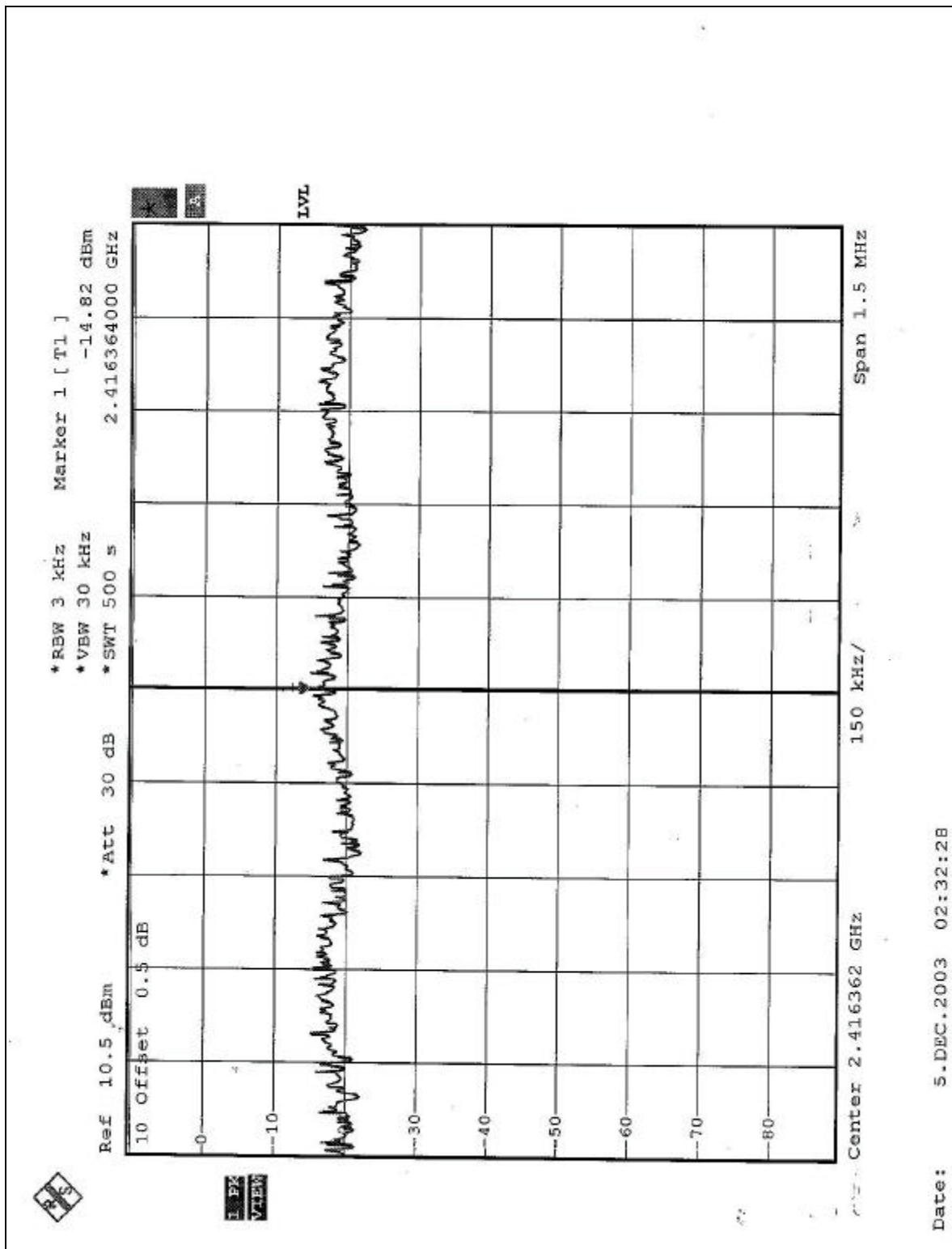
*RBW 3 kHz Marker 1 [T1]
 *VBW 30 kHz -10.09 dBm
 *Att 30 dB 2.464722000 GHz
 Ref 10.5 dBm
 Offset 0.5 dB
 Span 1.5 MHz
 Center 2.464722 GHz
 LVL



EUT	802.11g Wireless Ethernet Bridge	MODEL	USR5430
MODE	OFDM	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 60%RH, 991hPa	TESTED BY	Martin Lee

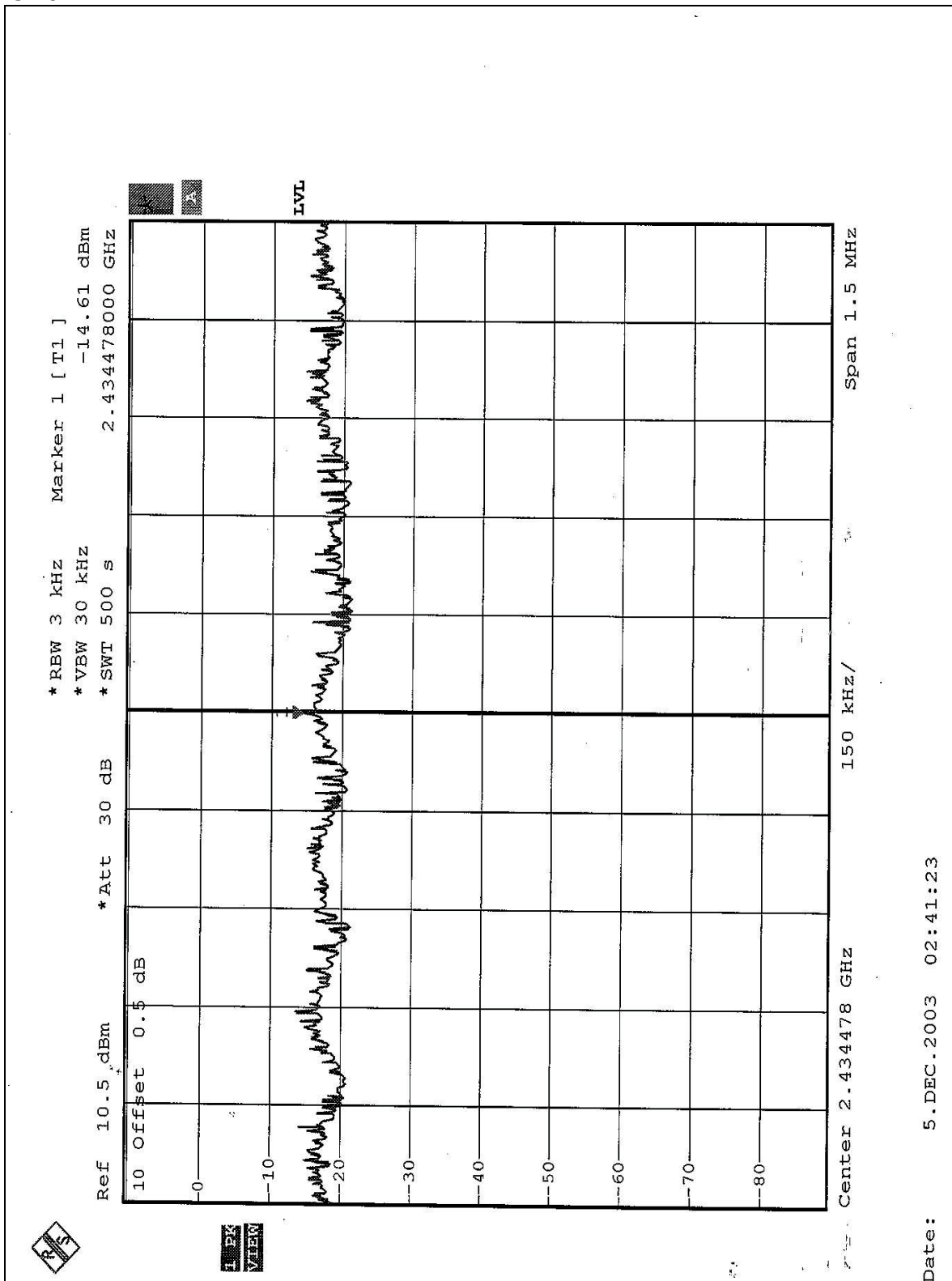
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.82	8	PASS
6	2437	-14.61	8	PASS
11	2462	-14.60	8	PASS

CH1





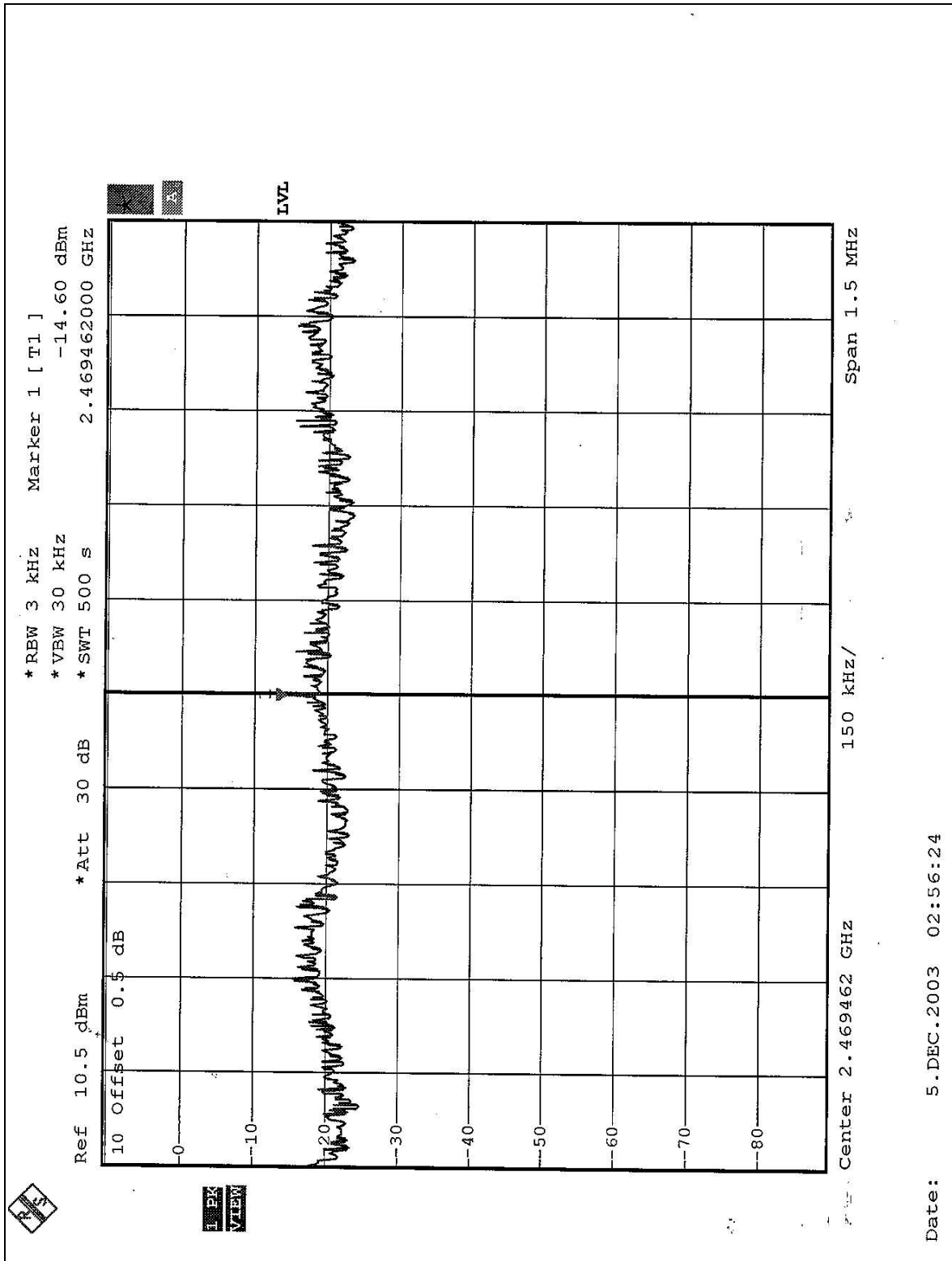
CH6



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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
R&S 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 100kHz for CCK and OFDM technique 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

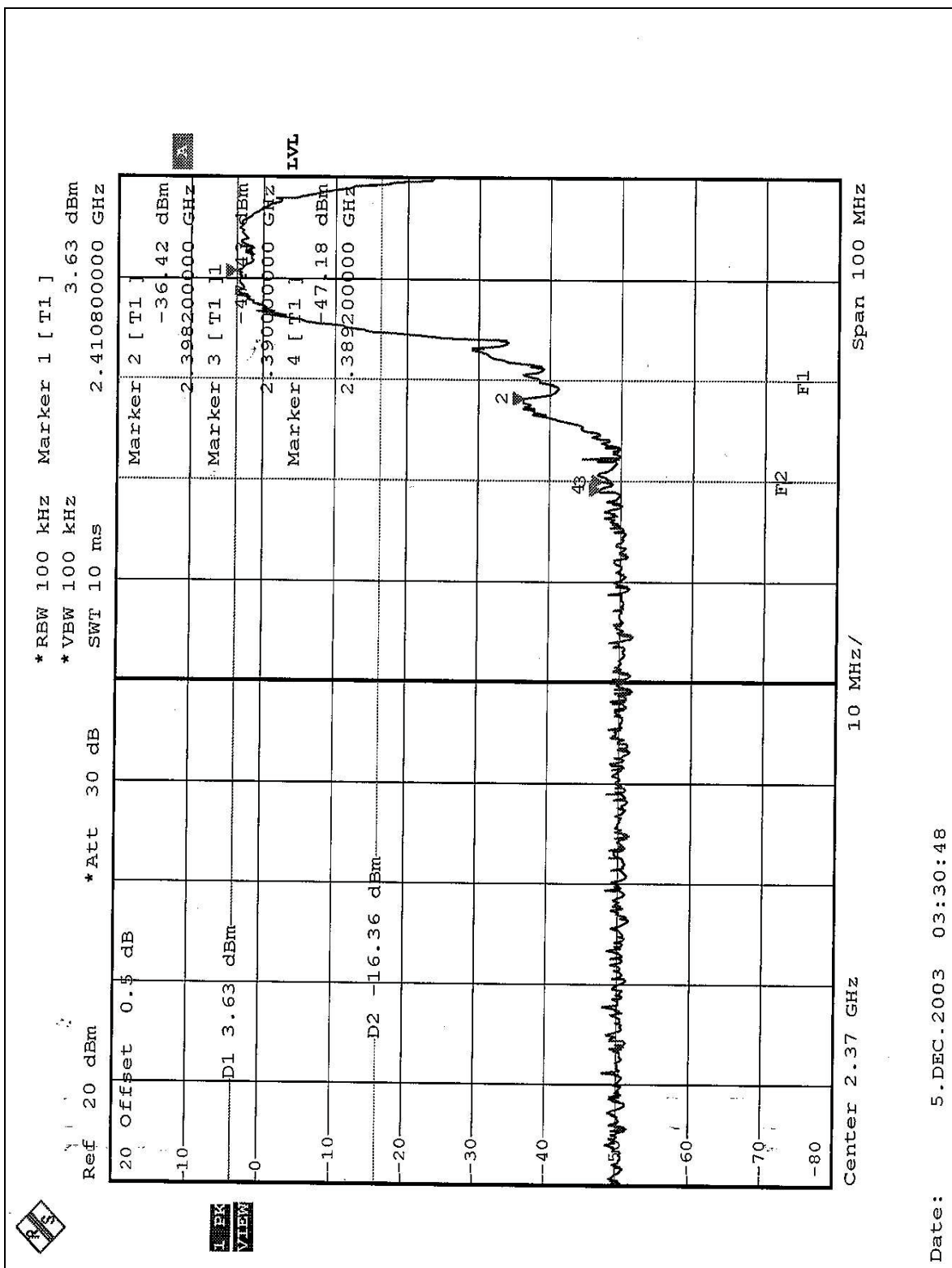
The spectrum plots are attached on the following 4 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE 1: The band edge emission plot of the CCK technique on the first page shows 50.81dB delta between carrier maximum power and local maximum emission in restrict band 2.3892GHz. The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 93.44dBuV/m, so the maximum field strength in restrict band is $93.44 - 50.81 = 42.63$ dBuV/m which is under 54dBuV/m limit.

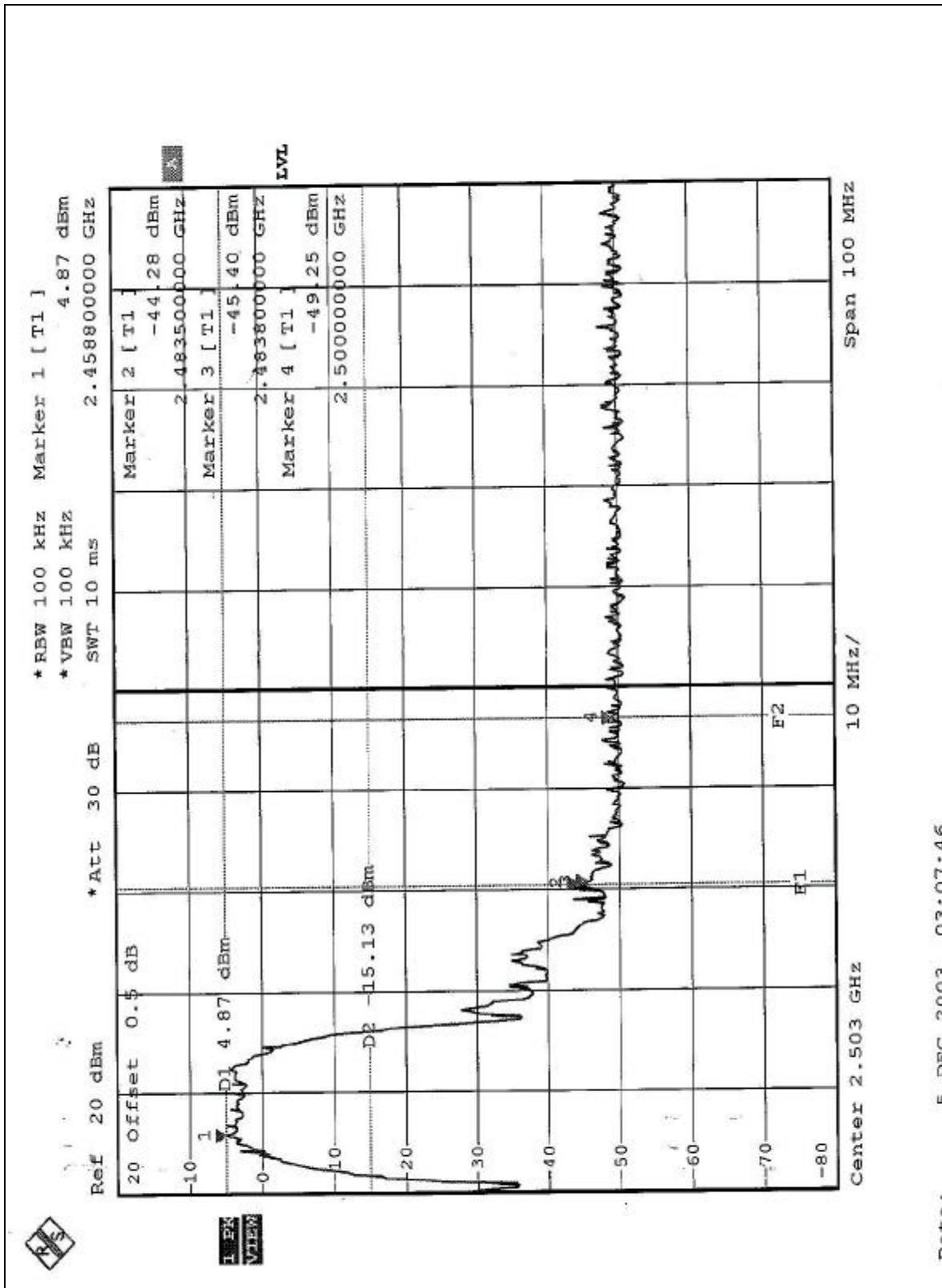
NOTE 2: The band edge emission plot of the CCK technique on the second page shows 49.15dB delta between carrier maximum power and local maximum emission in restrict band 2.4835GHz. The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.36dBuV/m, so the maximum field strength in restrict band is $95.36 - 49.15 = 46.21$ dBuV/m which is under 54dBuV/m limit.

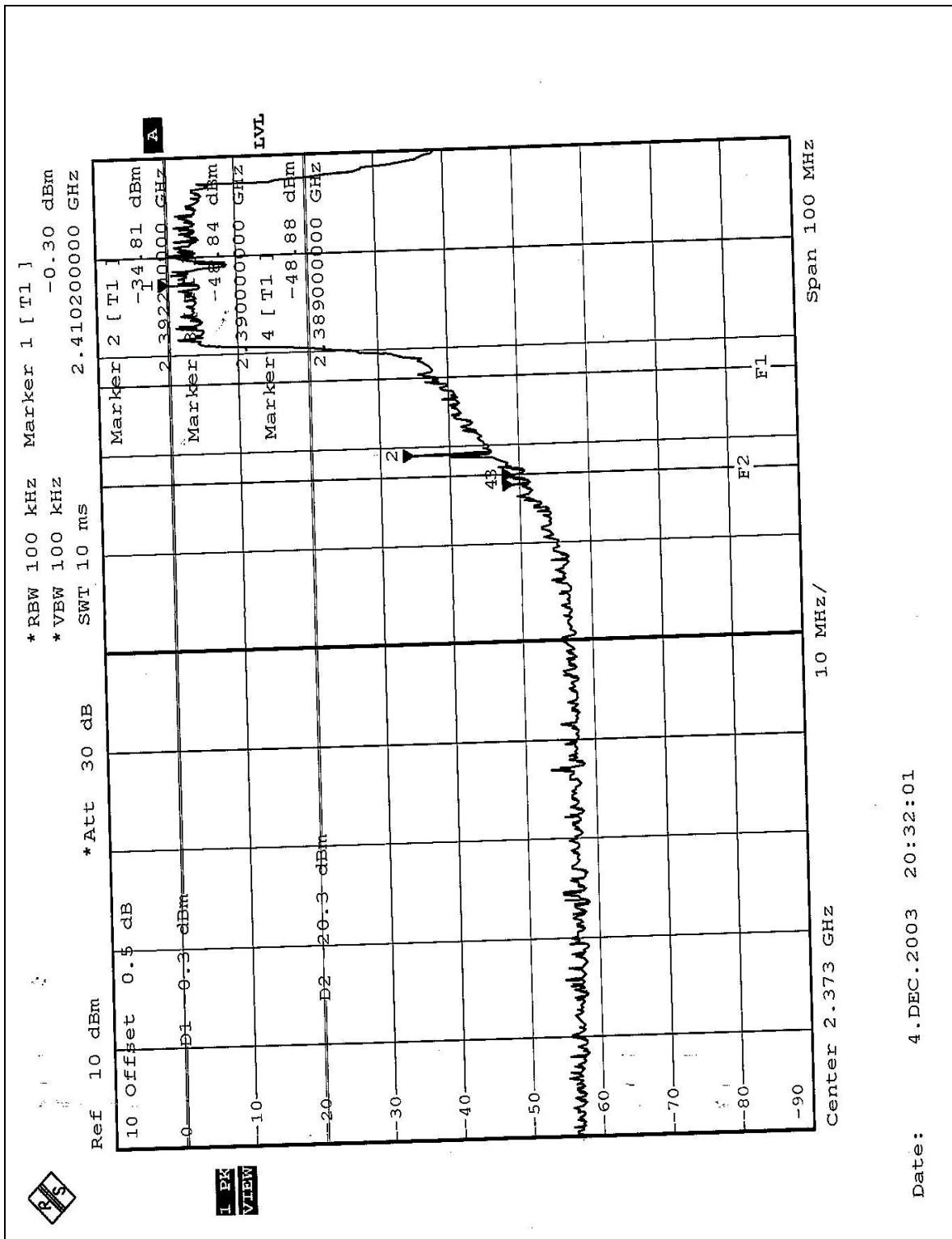
NOTE 3: The band edge emission plot of the OFDM technique on the third page shows 48.54dB delta between carrier maximum power and local maximum emission in restrict band 2.3900GHz. The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.10dBuV/m, so the maximum field strength in restrict band is $96.10 - 48.54 = 47.56$ dBuV/m which is under 54dBuV/m limit.

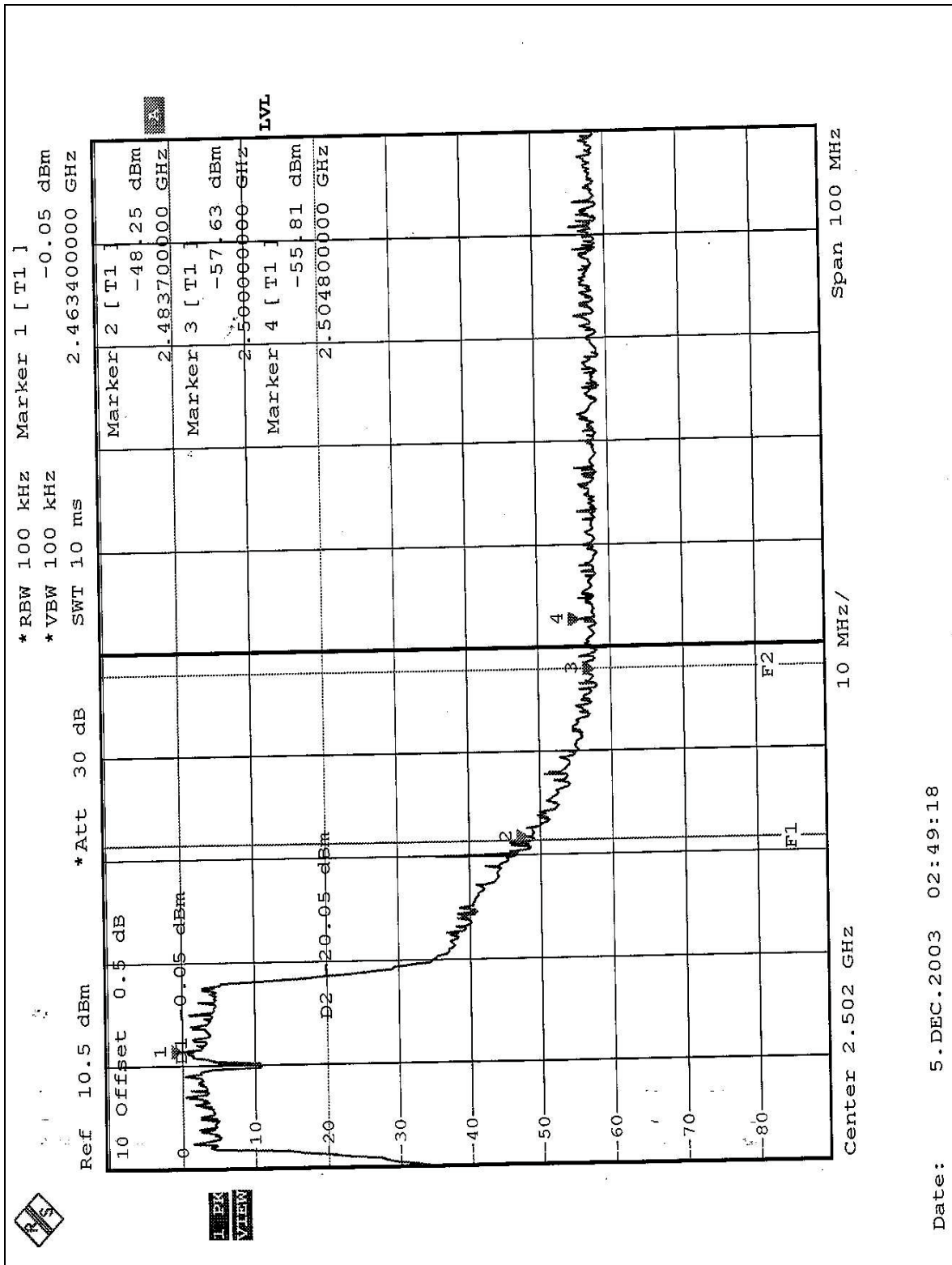
NOTE 4: The band edge emission plot of the OFDM technique on the fourth page shows 48.20dB delta between carrier maximum power and local maximum emission in restrict band 2.4837GHz. The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.36dBuV/m, so the maximum field strength in restrict band is $95.36 - 48.20 = 47.16$ dBuV/m which is under 54dBuV/m limit.



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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 reverse SMA connector. The maximum Gain of this antenna is only 2dBi.

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.

If you have any comments, please feel free to contact us at the following:

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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.