FCC Part 15
EMI TEST REPORT

of

E.U.T. : Wireless Local Area Network PC Card

MODEL : SL-2011CD

FCC ID. : NI3-SL-2011CD

for

APPLICANT : SENAO INTERNATIONAL CO., LTD.

ADDRESS : 2FL., No. 531, Chung Cheng Rd., Hsin-Tien City, Taipei Hsien, Taiwan, R.O.C.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
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Report Number : ET89R-10-068-01

TEST REPORT CERTIFICATION

Applicant	: SENAO INTERNATIONAL CO., LTD. 2FL., No. 531, Chung Cheng Rd., Hsin-Tien City, Taipei Hsien, Taiwan, R.O.C.
Manufacturer	: SENAO INTERNATIONAL CO., LTD. 2FL., No. 531, Chung Cheng Rd., Hsin-Tien City, Taipei Hsien, Taiwan, R.O.C.
Description of EUT	:
a) Type of EUT	: Wireless Local Area Network PC Card
b) Trade Name	: SENAO
c) Model No.	: SL-2011CD
d) Power Supply	: From Notebook PC (DC 3.3V)
Regulation Applied	: FCC Rules and Regulations Part 15 Subpart B & C (1999)

I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Issued Date : Nov. 13, 2000

Test Engineer : Tien Lu Liau
(Tien Lu Liau)

Approve & Authorized Signer : Will Yauo
Will Yauo, Supervisor
EMI Test Site of ELECTRONICS TESTING CENTER, TAIWAN

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1 GENERAL INFORMATION

1.1 Product Description

a) Type of EUT : Wireless Local Area Network PC Card
b) Trade Name : SENAO
c) Model No. : SL-2011CD
d) Power Supply : From Notebook PC (DC 3.3V)

1.2 Characteristics of Device

The SL-2011CD WLAN PC Card utilize the Intersil PRISM II Direct Sequence Spread Spectrum Wireless Transciever chip set. The transmitter uses the Direct Sequence Spread Spectrum technology and the data rate is up to 11 Mbps. The operation frequency band is 2400 MHz-2483.5MHz.

1.3 Test Methodology

For Wireless Local Area Network PC Card, both conducted and radiated emissions were performed according to the procedures illustrated in ANSI C63.4(1992) and for processing gain measurement is according to FCC Public Notice. Other required measurements were illustrated in separate sections of this test report for details.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No. 34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Taipei Hsien, Taiwan 244, R.O.C.
This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

2 PROVISIONS APPLICABLE

2.1 Definition

Unintentional radiator:
A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:
A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :
A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business of industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

Intentional radiator:
A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Requirement for Compliance

(1) Conducted Emission Requirement

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Frequency MHz	Emissions μV	Emissions dBμV
0.45 - 30.0	250	48.0

For intentional device, according to § 15.207(a) Line Conducted Emission Limits is same as above table.

(2) Radiated Emission Requirement

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency MHz	Distance Meters	Radiated dBμV/m	Radiated μV/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

(3) Antenna Requirement

For intentional device, according to § 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.

(4) Bandwidth Requirement

For direct sequence system, according to 15.247(a)(2), the minimum 6dB bandwidth shall be at least 500 kHz.

(5) Output Power Requirement

For direct sequence system, according to 15.247(b), the maximum peak output power of the transmitter shall not exceed 1 Watt. 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.

(6) 100 kHz Bandwidth of Frequency Band Edges Requirement

According to 15.247(c), if any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in § 15.209(a), whichever results in the lesser attenuation.

(7) Power Density Requirement

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

(8) Processing Gain Requirement

According to 15.247(e), the processing gain of a direct sequence system shall be at least 10 dB. The processing gain shall be determined from the ratio in dB of the signal to noise ratio with the system spreading code turned off to the signal to noise ratio with the system spreading code turned on, as measured at the demodulated output of the receiver.

2.3 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio / TV technician for help.

3. SYSTEM TEST CONFIGURATION

3.1 Justification

For both radiated and conducted emissions below 1 GHz, the system was configured for testing in a typical fashion as a customer would normally use it. The peripherals other than EUT were connected in normally standing by situation. Measurement was performed under the condition that a computer program was exercised to simulate data communication of EUT, and the transmission rate was set to maximum allowed by EUT. Three highest emissions were verified with varying placement of the transmitting antenna connected to EUT to maximize the emission from EUT.

For conducted emissions, only measured on TX and RX operation, for the digital circuits portion also function normally whenever TX or RX is operated. For radiated emissions, whichever RF channel is operated, the digital circuits function identically. As the reason, measurement of radiated emissions from digital circuits is only performed with channel 7 by transmitting mode.

During the preliminary test, the worse case is the antenna with a cable, and data presented in this test report just shows the worse case.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Cable Description
Wireless Local Area Network PC Card *	SENAO INTERNATIONAL CO., LTD.	SL-2011CD NI3-SL-2011CD	----
Note Book Computer	COMPAQ	M300	2.5m Unshielded AC Adaptor Poewr Cord
Printer	Hewlett-Packard	2225C+ DSI6XU2225	1.2m Shielded Cable
Modem	Smar TEAM Co.	1200AT EF56A51200AT	2.0m Shielded Cable

Remark "*" means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For unintentional radiator, the radiated emission shall comply with § 15.109(a).

For intentional radiators, according to § 15.247 (a), operation under this provision is limited to frequency hopping and direct sequence spread spectrum, and the out band emission shall be comply with § 15.247 (c)

4.2 Measurement Procedure

1. Setup the configuration per figure 5 and 6 for frequencies measured below and above 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.

   Note : A band pass filter was used to avoid pre-amplifier saturated when measure TX operation mode in frequency band above 1 GHz.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.

Figure 1 : Frequencies measured below 1 GHz configuration

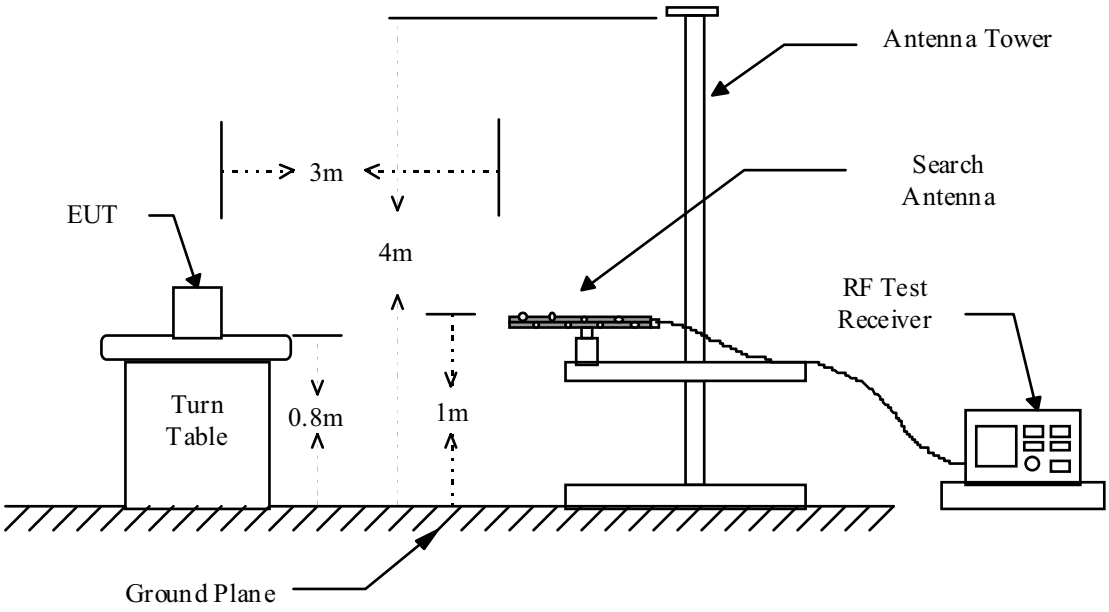
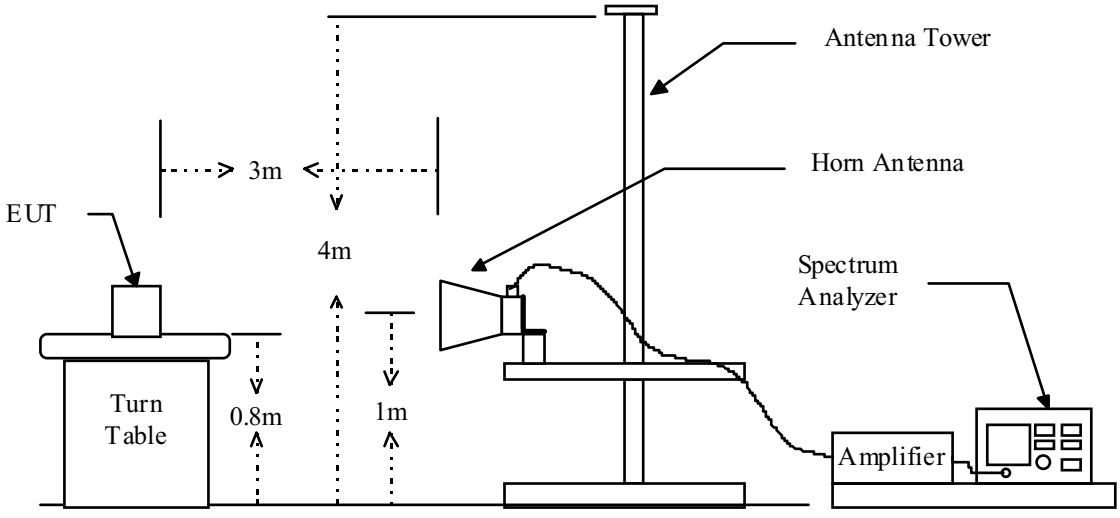


Figure 2 : Frequencies measured above 1 GHz configuration



4.3 Measuring Instrument

The following instrument are used for radiated emissions measurement :

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Hewlett-Packard	8568B	01/05/2001
Pre-selector	Hewlett-Packard	85685A	01/10/2001
Quasi Peak Detector	Hewlett-Packard	85650A	01/10/2001
Spectrum Analyzer	Hewlett-Packard	8564E	04/18/2001
RF Test Receiver	Rohde & Schwarz	ESVS 30	07/27/2001
Horn Antenna	EMCO	3116	05/08/2001
Horn Antenna	EMCO	3115	05/09/2001
Log periodic Antenna	EMCO	3146	11/03/2001
Biconical Antenna	EMCO	3110B	11/03/2001
Preamplifier	Hewlett-Packard	8449B	05/09/2001
Preamplifier	Hewlett-Packard	8447D	01/18/2001
Micro Wave EMI Test System	Hewlett-Packard	84125C	01/24/2001

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	300 Hz

4.4 Radiated Emission Data

4.4.1 RF Portion

a) Channel 1

Operation Mode : TX/RX

Fundamental Frequency : TX : 2412 MHz (RX : Local Frequency : 2038 MHz)

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity : 66 %

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
*2037.700	48.2	42.7	48.9	43.8	-4.5	44.4	39.3	74.0	54.0	-14.7	270	1.00
*4075.400	---	---	44.0	40.3	2.0	46.0	42.3	74.0	54.0	-11.7	45	1.30
*6113.100	---	---	---	---	4.5	---	---	74.0	54.0	---	---	---
*8150.800	---	---	---	---	6.5	---	---	74.0	54.0	---	---	---
*10188.500	---	---	---	---	7.6	---	---	74.0	54.0	---	---	---
4824.000	45.2	32.1	44.5	30.5	2.6	47.8	34.7	74.0	54.0	-19.3	90	1.40
7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.000	---	---	47.5	39.8	7.3	54.8	47.1	74.0	54.0	-6.9	135	1.40
12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.000	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.000	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.000	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.000	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24120.000	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.

b) Channel 6

Operation Mode : TX/RX

Fundamental Frequency : TX : 2437 MHz (RX : Local Frequency : 2063 MHz)

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity : 66 %

Frequency	Reading (dBuV)				Factor	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin	Table	Ant.
	H		V		(dB)	Peak	Ave	Peak	Ave.	(dB)	Deg. (Deg.)	High
(MHz)	Peak	Ave	Peak	Ave	Corr.							(m)
*2062.800	48.8	43.9	50.8	46.2	-4.4	46.4	41.8	74.0	54.0	-12.2	270	1.00
*4125.600	---	---	45.1	41.8	2.0	47.1	43.8	74.0	54.0	-10.2	45	1.30
*6188.400	---	---	---	---	4.5	---	---	74.0	54.0	---	---	---
*8251.200	---	---	---	---	6.6	---	---	74.0	54.0	---	---	---
*10314.000	---	---	---	---	7.7	---	---	74.0	54.0	---	---	---
4874.000	46.1	33.2	45.1	31.1	2.7	48.8	35.9	74.0	54.0	-18.1	90	1.40
7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9748.000	---	---	48.5	40.2	7.3	55.8	47.5	74.0	54.0	-6.5	135	1.40
12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14622.000	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17059.000	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19496.000	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21933.000	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24370.000	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.

c) Channel 11

Operation Mode : TX/RX

Fundamental Frequency : TX : 2472 MHz (RX : Local Frequency : 2088 MHz)

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity : 66 %

Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
*2087.720	49.5	44.0	51.7	47.2	-4.3	47.4	42.9	74.0	54.0	-11.1	270	1.00
*4175.440	---	---	46.7	43.0	2.0	48.7	45.0	74.0	54.0	-9.0	45	1.30
*6263.160	---	---	---	---	4.5	---	---	74.0	54.0	---	---	---
*8350.880	---	---	---	---	6.7	---	---	74.0	54.0	---	---	---
*10438.600	---	---	---	---	7.8	---	---	74.0	54.0	---	---	---
4924.000	47.8	34.0	45.7	31.7	2.8	50.6	36.8	74.0	54.0	-17.2	90	1.40
7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9848.000	---	---	49.2	40.7	7.3	56.5	48.0	74.0	54.0	-6.0	135	1.40
12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14772.000	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17234.000	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19696.000	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22158.000	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24620.000	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.

4.4.2 Other Emission

a) Emission frequencies below 1 GHz

Test Date : OCT. 27, 2000 Temperature : 23 ℃ Humidity : 67 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
149.986	H	42.1	-10.0	32.1	43.5	-11.4	90	4.00
215.914	V	38.6	-6.1	32.5	43.5	-11.0	90	1.00
456.043	V	48.4	-5.3	43.1	46.0	-2.9	90	1.30
499.929	V	43.3	-4.4	38.9	46.0	-7.1	270	1.30
600.071	H	40.7	-4.5	36.2	46.0	-9.8	90	3.00
748.600	V	36.0	-0.3	35.7	46.0	-10.3	90	1.80

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 5 GHz were too low to be measured with a pre-amplifier of 35 dB.

4.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss(if used) and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

where

Corrected Factor = Antenna FACTOR + Cable Loss + High Pass Filter Loss - Amplifier Gain

4.6 Photos of Radiation Measuring Setup

Please see setup photos in Exhibit F.

5 CONDUCTED EMISSION MEASUREMENT

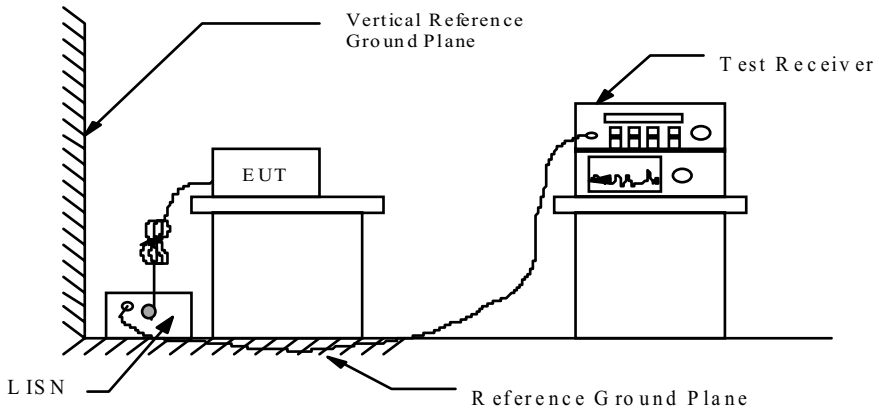
5.1 Standard Applicable

For unintentional and intentional device, Line Conducted Emission Limits are in accordance to § 15.107(a) and § 15.207(a) respectively. Both Limits are identical specification.

5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



5.3 Conducted Emission Data

a) CH 01

Operation Mode : Transmitting / Receiving
Test Date : OCT. 25, 2000 Temperature : 25 ℃ Humidity: 63 %

Frequency	Reading (dBuV)		Factor	Result (dBuV)		Limit	Margin
(MHz)	N	L1	(dB)	N	L1	(dBuV)	(dB)
0.503	31.8	31.6	0.2	32.0	31.8	48.0	-16.0
1.354	28.8	30.6	0.3	29.1	30.9	48.0	-17.1
8.160	32.2	32.0	0.4	32.6	32.4	48.0	-15.4
14.419	32.4	35.4	0.8	33.2	36.2	48.0	-11.8
20.272	30.0	38.8	0.9	30.9	39.7	48.0	-8.3
25.243	34.4	40.4	1.0	35.4	41.4	48.0	-6.6

b) CH 06

Operation Mode : Transmitting / Receiving
Test Date : OCT. 25, 2000 Temperature : 25 ℃ Humidity: 63 %

Frequency	Reading (dBuV)		Factor	Result (dBuV)		Limit	Margin
(MHz)	N	L1	(dB)	N	L1	(dBuV)	(dB)
0.503	31.6	31.5	0.2	31.8	31.7	48.0	-16.2
1.354	28.7	30.4	0.3	29.0	30.7	48.0	-17.3
8.160	32.0	31.9	0.4	32.4	32.3	48.0	-15.6
14.419	32.3	35.2	0.8	33.1	36.0	48.0	-12.0
20.272	29.8	38.7	0.9	30.7	39.6	48.0	-8.4
25.243	34.3	40.2	1.0	35.3	41.2	48.0	-6.8

c) CH 11

Operation Mode : Transmitting / Receiving
Test Date : OCT. 25, 2000 Temperature : 25 ℃ Humidity: 63 %

Frequency	Reading (dBuV)		Factor	Result (dBuV)		Limit	Margin
(MHz)	N	L1	(dB)	N	L1	(dBuV)	(dB)
0.503	31.7	31.4	0.2	31.9	31.6	48.0	-16.1
1.354	28.6	30.5	0.3	28.9	30.8	48.0	-17.2
8.160	32.1	31.8	0.4	32.5	32.2	48.0	-15.5
14.419	32.4	35.3	0.8	33.2	36.1	48.0	-11.9
20.272	29.9	38.6	0.9	30.8	39.5	48.0	-8.5
25.243	34.2	40.3	1.0	35.2	41.3	48.0	-6.7

Note : Please see appendix 1 for Ploted Datas

5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

RESULT = READING + LISN FACTOR

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB μ V.

RESULT = 22.5 + 0.1 = 22.6 dB μ V
Level in μ V = Common Antilogarithm[(22.6 dB μ V)/20]
= 13.48 μ V

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde and Schwarz	ESH3	01/03/2001
Spectrum Monitor	Rohde and Schwarz	EZM	N.C.R.
Line Impedance Stabilization network	Kyoritsu	KNW-407	12/01/2000
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/04/2001
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken		N.C.R.

5.6 Photos of Conduction Measuring Setup

Please see setup photos in Exhibit F.

6 ANTENNA REQUIREMENT

6.1 Standard Applicable

For intentional device, according to § 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 § 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.

6.2 Antenna Construction and Directional Gain

The antenna terminal of this unit is designed to be mounted permanently on the PC Card. Please see constraction Photos Of Exhibit B for details.

The directional gain of antenna used for transmitting is 0dBi.

7 EMISSION BANDWIDTH MEASUREMENT

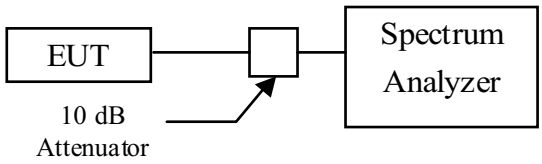
7.1 Standard Applicable

According to 15.247(a)(2), for direct sequence system, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 5 without connection to measurement instrument. 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. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Figure 4: Emission bandwidth measurement configuration.



7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde & Schwarz	ESBI	10/01/2001
Plotter	Hewlett-Packard	7440A	N/A
Attenuator	Weinschel Engineering	AS3667	N/A

7.4 Measurement Data

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity: 66 %

a) 2412 MHz : 6 dB Emission Bandwidth is 9.95 MHz > 500 KHz.
b) 2437 MHz : 6 dB Emission Bandwidth is 9.95 MHz > 500 KHz.
c) 2472 MHz : 6 dB Emission Bandwidth is 9.95 MHz > 500 KHz.

Note: Please see Appendix 2 for ploted datas

8 OUTPUT POWER MEASUREMENT

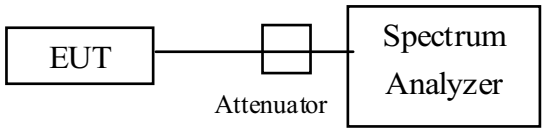
8.1 Standard Applicable

For direct sequence system, according to 15.247(b), the maximum peak output power of the transmitter shall not exceed 1 Watt. 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.

8.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 5 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 3 MHz and VBW to 3 MHz.
4. Measure the highest amplitude appearing on spectral display and record the level to calculate result data.
5. Repeat above procedures until all frequencies measured were complete.

Figure 5: Output power and measurement configuration.



8.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde & Schwarz	ESBI	10/01/2001
Plotter	Hewlett-Packard	7440A	N/A

8.4 Measurement Data

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity: 66 %

a) 2412 MHz : Output Peak Power is 16.9 dBm or 48.98 mW
b) 2437 MHz : Output Peak Power is 16.7 dBm or 46.77 mW
c) 2472 MHz : Output Peak Power is 16.3 dBm or 42.66 mW

Note: Please see Appendix 3 for ploted datas

9 100 kHz BANDWIDTH OF BAND EDGES MEASUREMENT

9.1 Standard Applicable

According to 15.247(c), if any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified in § 15.209(a), whichever results in the lesser attenuation.

9.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 5 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

9.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde & Schwarz	ESBI	10/01/2001
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

9.4 Measurement Data

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity: 66 %

a) Lower Band Edge : attenuated more than 20dB.
b) Upper Band Edge : attenuated more than 20dB.

Note: Please see Appendix 4 for ploted datas

10 POWER DENSITY MEASUREMENT

10.1 Standard Applicable

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of spectrum analyzer on highest level appearing on spectral display within a 300 kHz frequency span.
4. Set the spectrum analyzer on a 3 kHz resolution bandwidth and 300 kHz video bandwidth as well as max. hold function. Also turn on SA level corrected function by 21 dB and then record the measurement result.
5. Repeat above procedures until all measured frequencies were complete.

10.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde & Schwarz	ESBI	10/01/2001
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

10.4 Measurement Data

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity: 66 %

a) 2412 MHz : Maximun Power Density of 3 kHz Bandwidth is –11.83 dBm
b) 2437 MHz : Maximun Power Density of 3 kHz Bandwidth is –12.33 dBm
c) 2472 MHz : Maximun Power Density of 3 kHz Bandwidth is –13.67 dBm

Note: Please see Appendix 5 for ploted datas

11 PROCESSING GAIN MEASUREMENT

11.1 Standard Applicable

According to 15.247(e), the processing gain of a direct sequence system shall be at least 10 dB. The processing gain shall be determined from the ratio in dB of the signal to noise ratio with the system spreading code turned off to the signal to noise ratio with the system spreading code turned on, as measured at the demodulated output of the receiver.

11.2 Measurement Description

A. Standard Applicable

According to FCC CFR 47, Para. 15.247(e), the processing gain, G_p of a direct sequence system shall be at least 10 dB. The processing gain can be determined from the ratio in dB of the signal to noise ratio with the system spreading processes are being bypassed relative to the processes are engaged. In our system, the spread spectrum processing can not simply be bypassed, so the jamming margin test is taken. In accordance with the new NPRM 99-231, if the vendor has a system with less than 10 chips per symbol, the CW jamming results must be supported by a theoretical explanation of the system processing gain.

B. Theoretical calculations

The processing gain is related to the jamming margin follows:

$$G_p = \left(\frac{S}{N}\right)_{output} + \left(\frac{J}{S}\right) + L_{system} \quad \text{.....(1)}$$

Where $\left(\frac{S}{N}\right)_{output}$ is the theoretical output signal to noise ratio per symbol

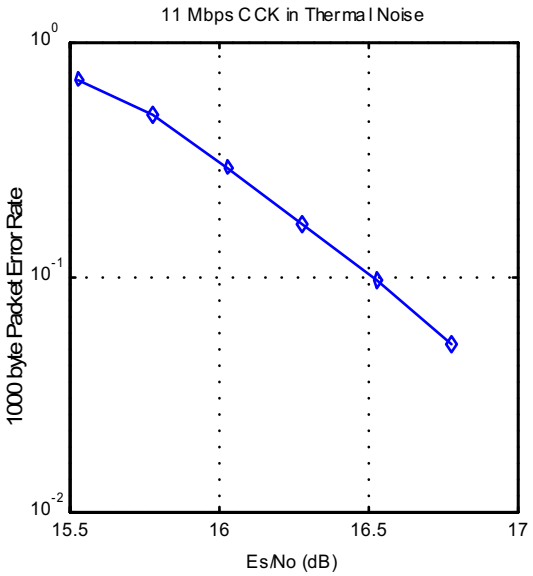
$\left(\frac{J}{S}\right)$ is the jamming signal power relative to desired signal power

L_{system} is the system implementation losses, could not be more than 2 dB.

The chipset we use is HFA3861, which uses a form of M-ary Orthogonal Keying modulation technology as its direct sequence spread spectrum modulation. The probability of error for generalized m-ary Orthogonal signaling using coherent demodulation is as follows:

$$P_e = 1 - P_{c1} = 1 - \frac{1}{\sqrt{2\pi}} \int_{\frac{S_{o1}}{N_o}}^{\infty} \left[2\left(1 - Q\left\{ z + \sqrt{2\frac{E_b}{\eta}} \right\}\right) \right]^{\frac{M}{2}-1} \exp\left\{ -\frac{z^2}{2} \right\} dz \quad \text{.....(2)}$$

Then by a mathematic program, we can get the PER vs. $\frac{E_s}{N_0}$ plot, like the following figure. From the plot, we know that the corresponding $\frac{E_s}{N_0}$ (signal to noise ratio per symbol) is 16.4 dB at PER is 8%.



So the function (1) becomes as...

$$G_p = 18.4 + \left(\frac{J}{S}\right) \quad \text{.....(3)}$$

C. Test Configuration for CW Jamming Margin method

The processing gain measurement is based upon the CW jamming margin method suggested in the FCC document entitled "GUIDANCE ON MEASUREMENTS FOR DIRECT SEQUENCE SPREAD SPECTRUM SYSTEMS, 54597, July 12, 1999". The test consists of stepping a CW signal generator in 50KHz increment across pass band of each three channels within 2400 – 2483 MHz bands. This CW signal represents the jamming signal. The selected three channels are as followings:

Channel 1: centered at 2412 MHz

Channel 6: centered at 2437 MHz

Channel 11:centered at 2462 MHz

These three channels represent the low, mid and high frequency bands of the EUT. And, the processing gain of the EUT determined on these bands should represent the entire band. The testing block diagram is as fig.1

D. Test Procedure

1. Making the signal power at receiver side is approximately –60 dBm (a little above the thermal sensitivity such that thermal noise does not cause bit errors.)
2. Use spectrum analyzer to monitor test.
3. Ensure that CW Jammer generator RF output is disables and measure the power at the receiver port using the power meter. This is the relative signal power.
4. Disable Transmitter, and set CW Jammer generator RF output frequency equal to the carrier frequency and enable generator output.

5. Disable CW Jammer, re-establish link. PER test should be operating essentially error-free.
6. Enable CW Jammer at much lower power level, which should not results any error.
7. Adjust the output power level of Jammer step by step, till it cause 8% PER.
8. Measuring the power at the receiver port using the power meter. This is the relative jammer power, adding some attenuators before the receiver if necessary.
9. Records the entire information and repeat step 3 in frequency increments of 50 kHz across the receiver passband with the CW Jammer.

10. The number of points where the PER fails to achieve 8% is determined and if this is above 20% of the total, the test is failed otherwise it is passed. The numerical data associated the three selected channels is tabulated as tab. 1

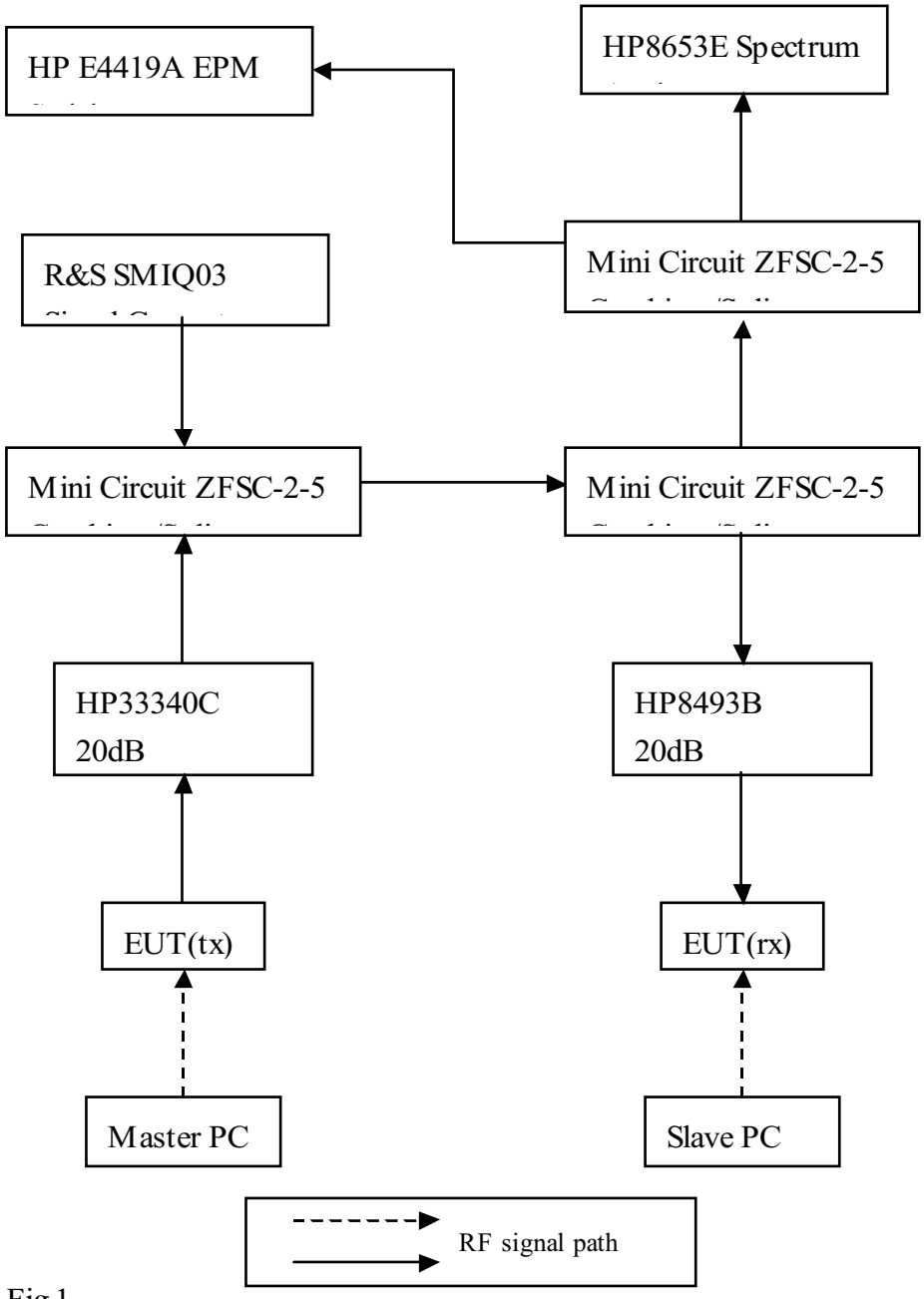


Fig.1

11.3 Measurement Instrument

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Hewlett-Packard	HP8563E	May. 06, 2001
RF Signal Generator	Hewlett-Packard	HP8648C	Feb. 20, 2001
Attenuator	Hewlett-Packard	HP8493A 20dB	N/A
Attenuator	Hewlett-Packard	HP8493A 10dB	N/A
Combiner/Splitter	Mini Circuit	ZFSC-2-5	N/A
Combiner/Splitter	Mini Circuit	ZFSC-2-5	N/A
Combiner/Splitter	Mini Circuit	ZFSC-2-5	N/A

11.4 Measurement Data

Test Date : OCT. 25, 2000 Temperature : 24 ℃ Humidity: 66 %

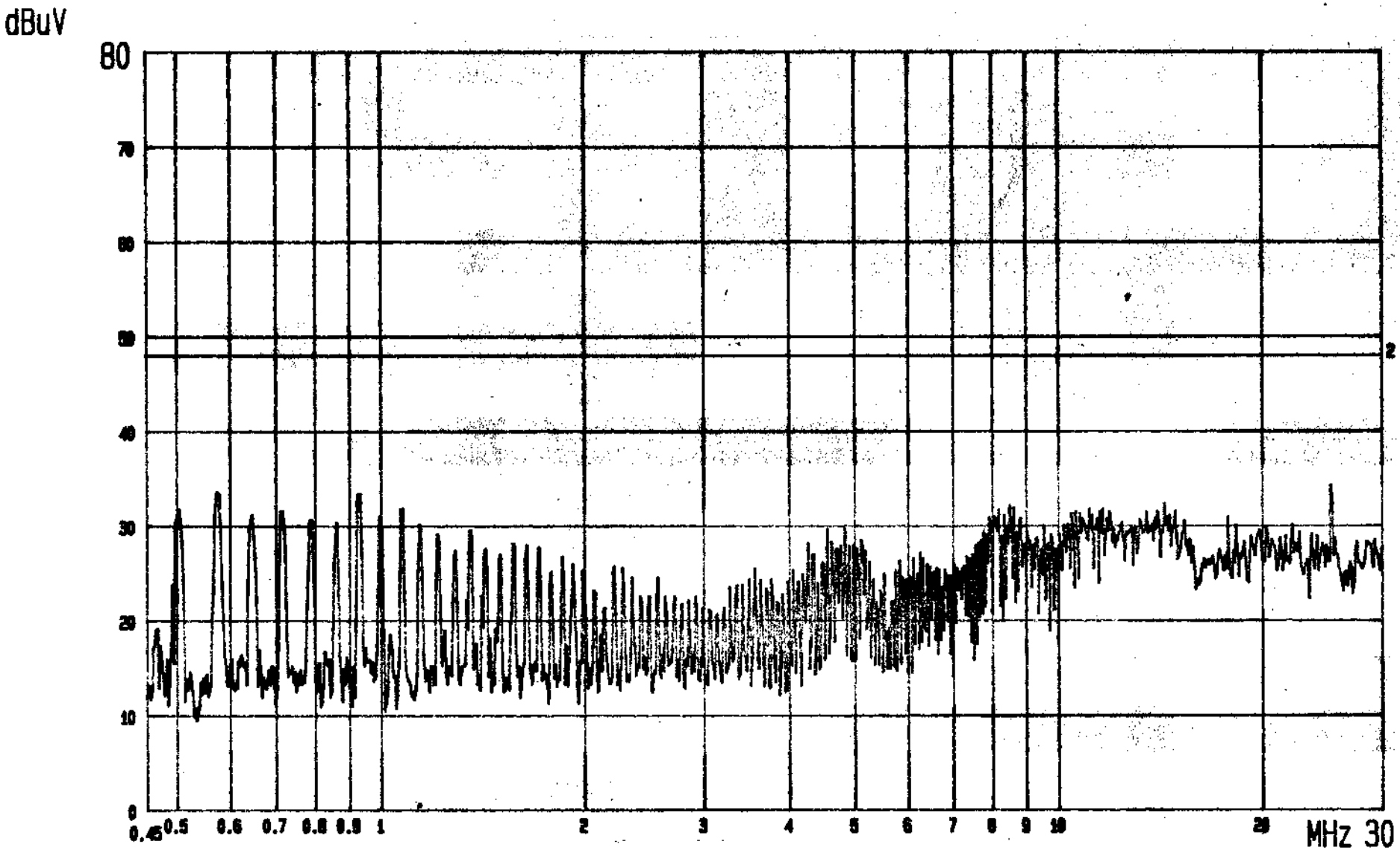
The processing gain is greater then 10 dB, please see Appendix 6 for details.

11 Mbps
CH01: the processing gain is 11.50 dB
CH06: the processing gain is 11.40 dB
CH11: the processing gain is 12.00 dB

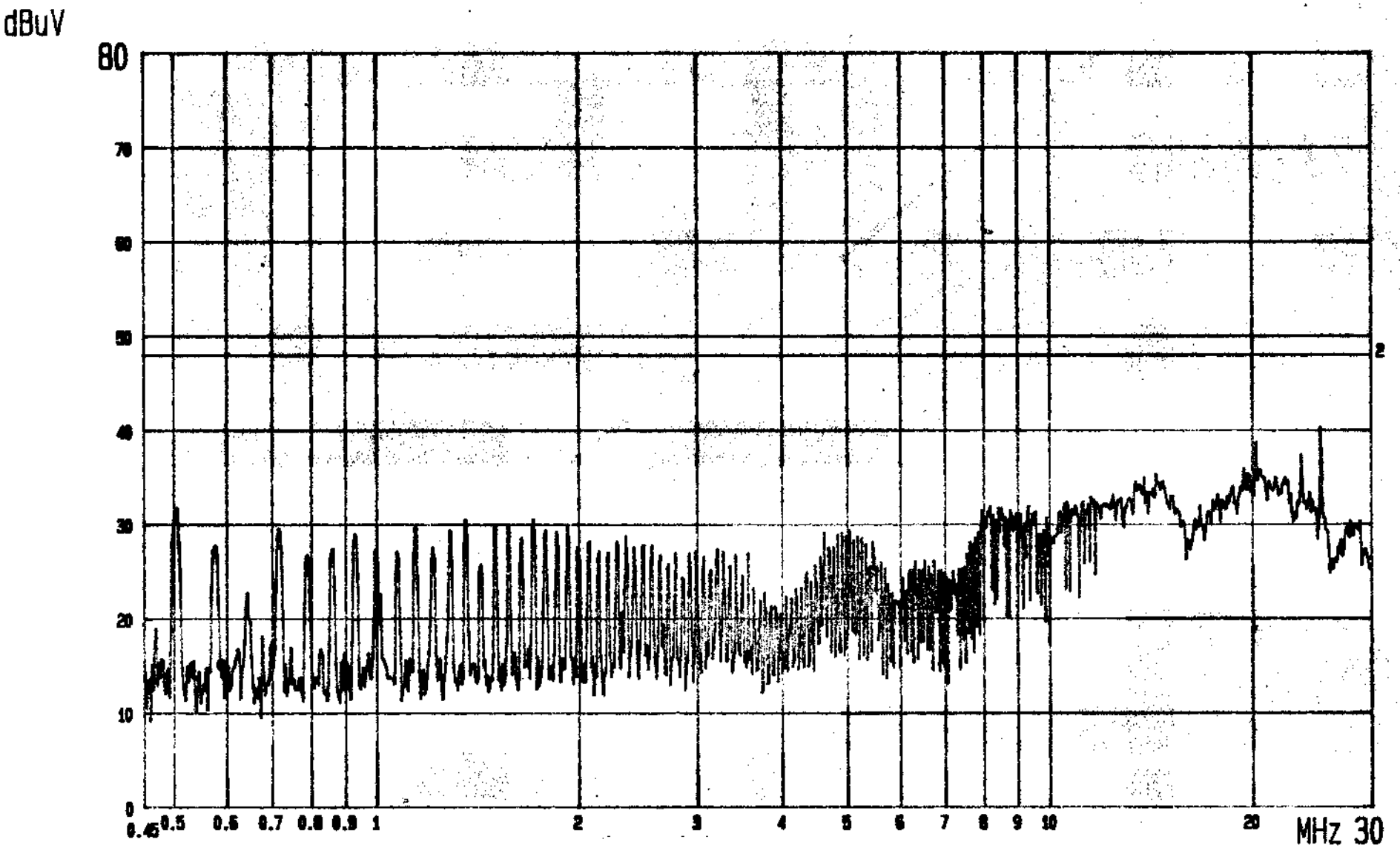
5.5 Mbps
CH01: the processing gain is 10.12 dB
CH06: the processing gain is 10.11 dB
CH11: the processing gain is 10.48 dB

2 Mbps
CH01: the processing gain is 10.55 dB
CH06: the processing gain is 12.50 dB
CH11: the processing gain is 10.52 dB

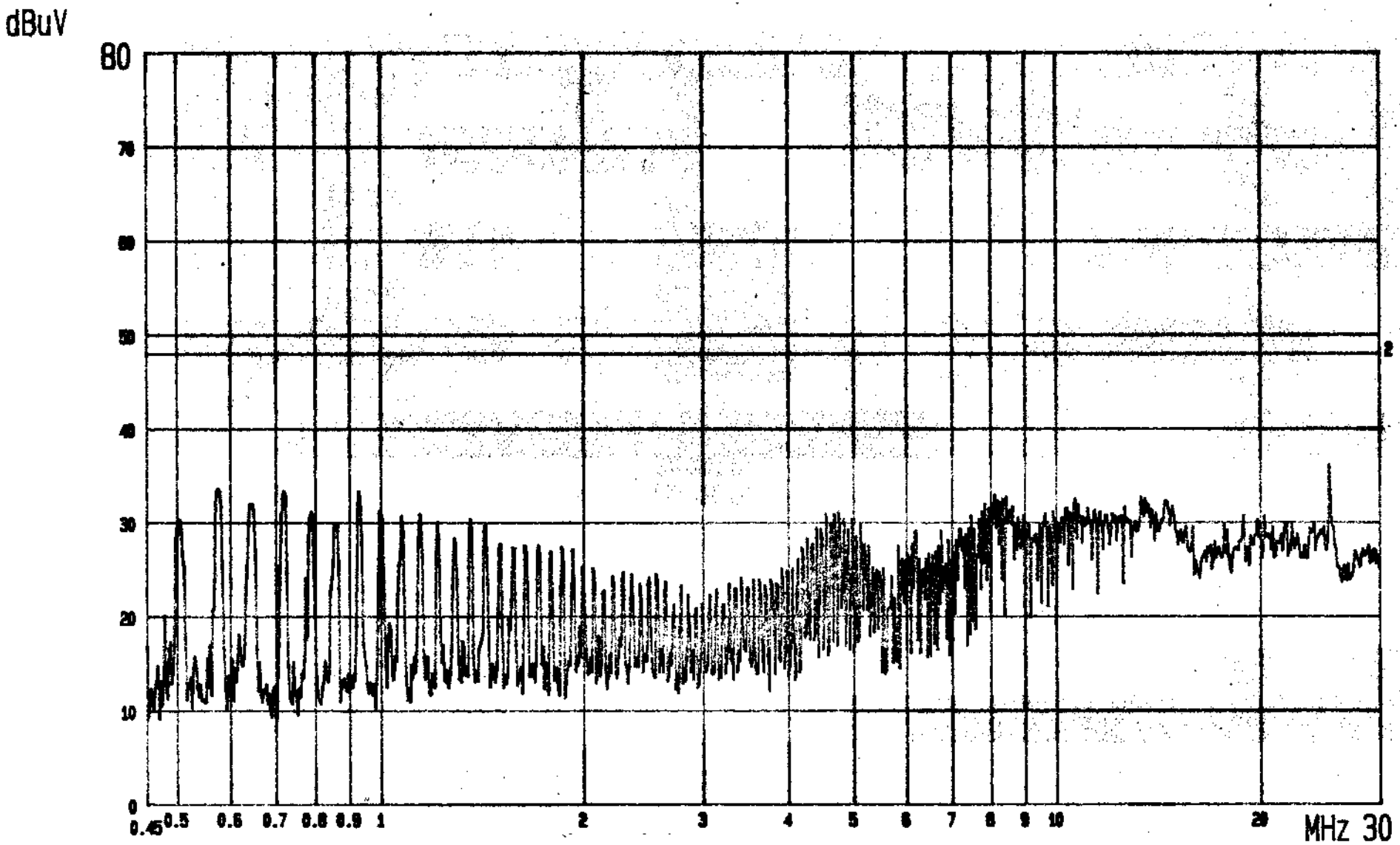
Appendix 1 : Ploted Datas of Power Line Conducted Emissions



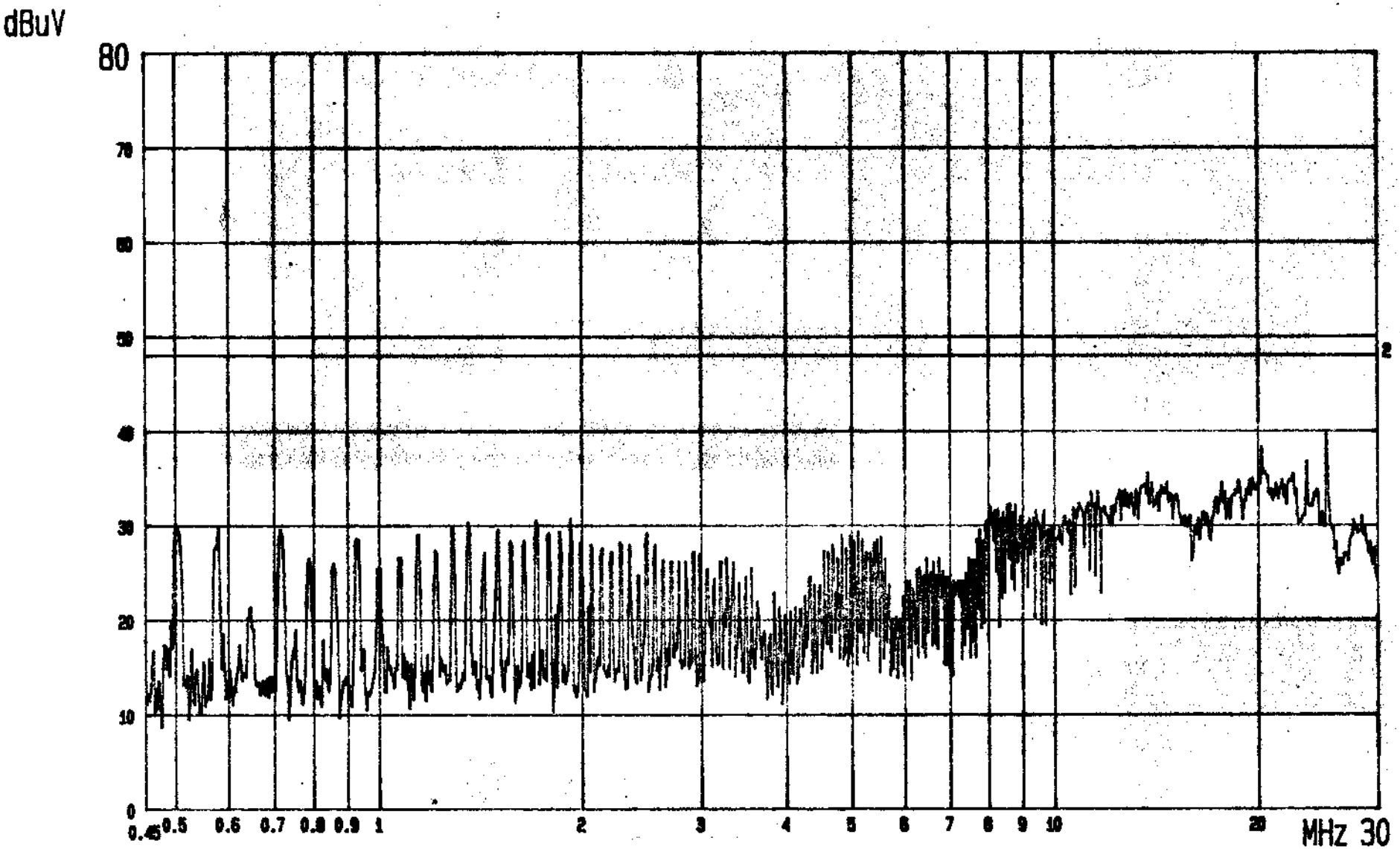
FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP., CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 01 POWER: From Notebook PC LISN: N ETC EMI LAB.



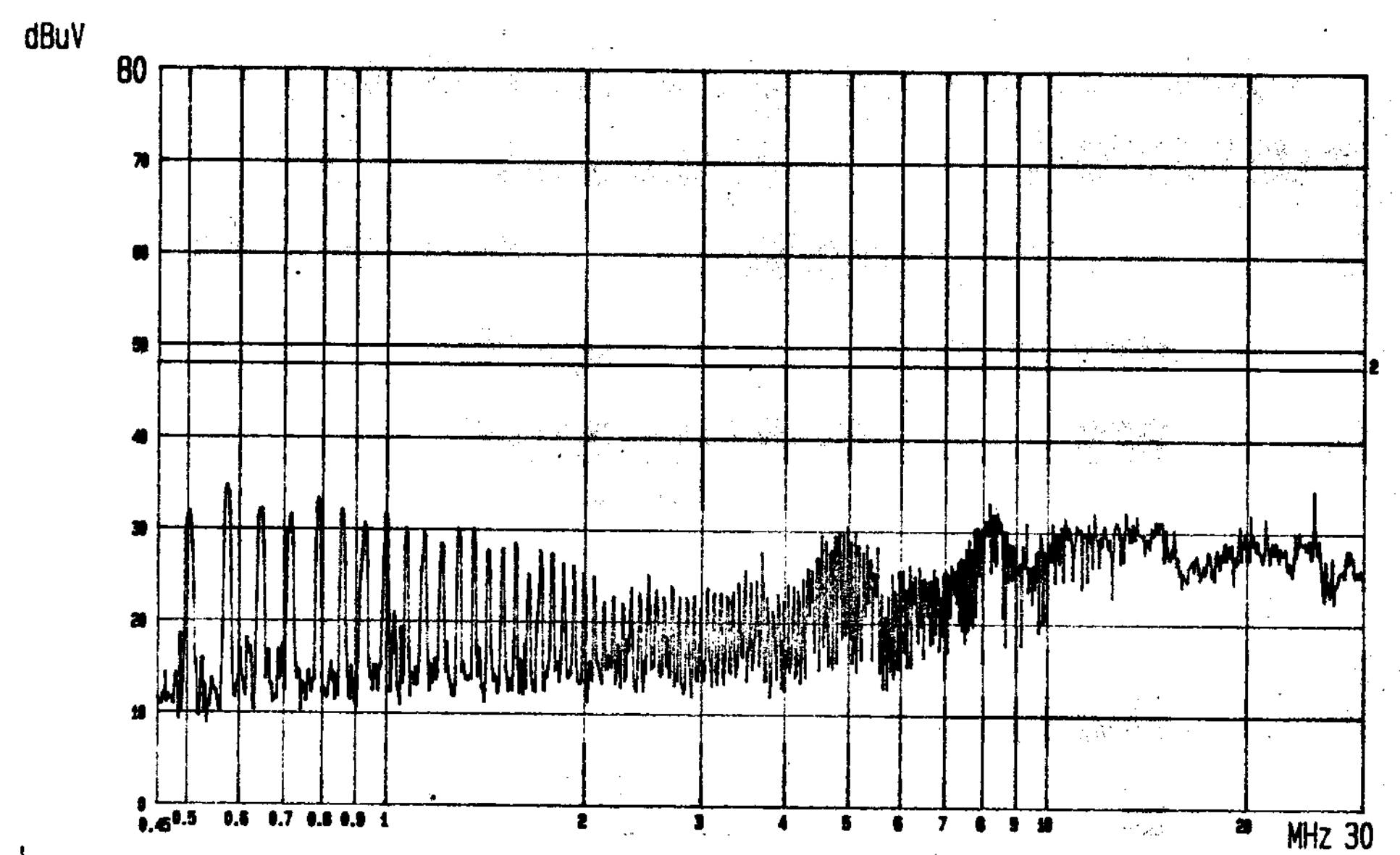
FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP.. CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 01 POWER: From Notebook PC LISN: L1 ETC EMI LAB.



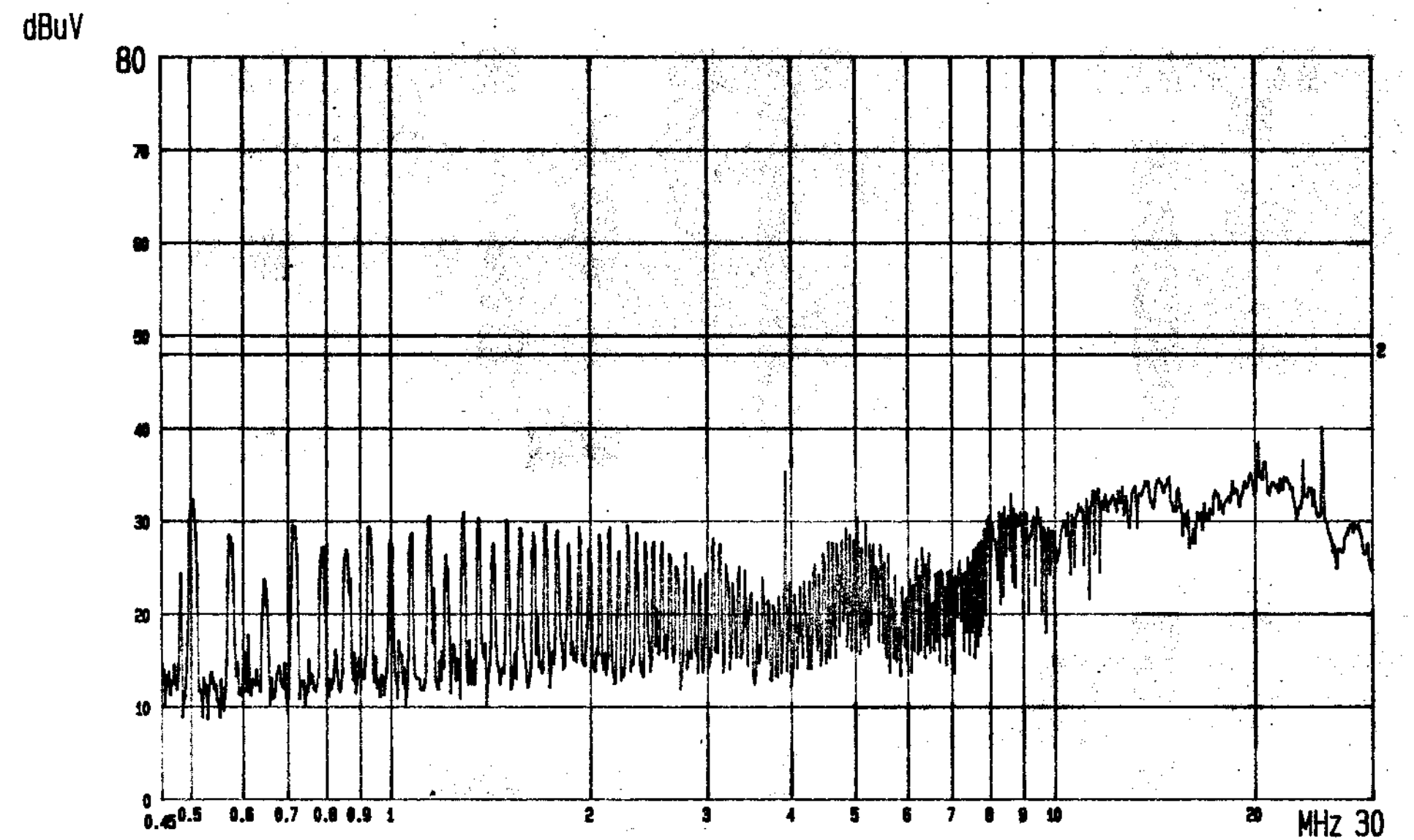
FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP.. CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 06 POWER: From Notebook pc LISN: N ETC EMI LAB.



FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP., CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 06 POWER: From Notebook Pd LISN: L1 ETC EMI LAB.

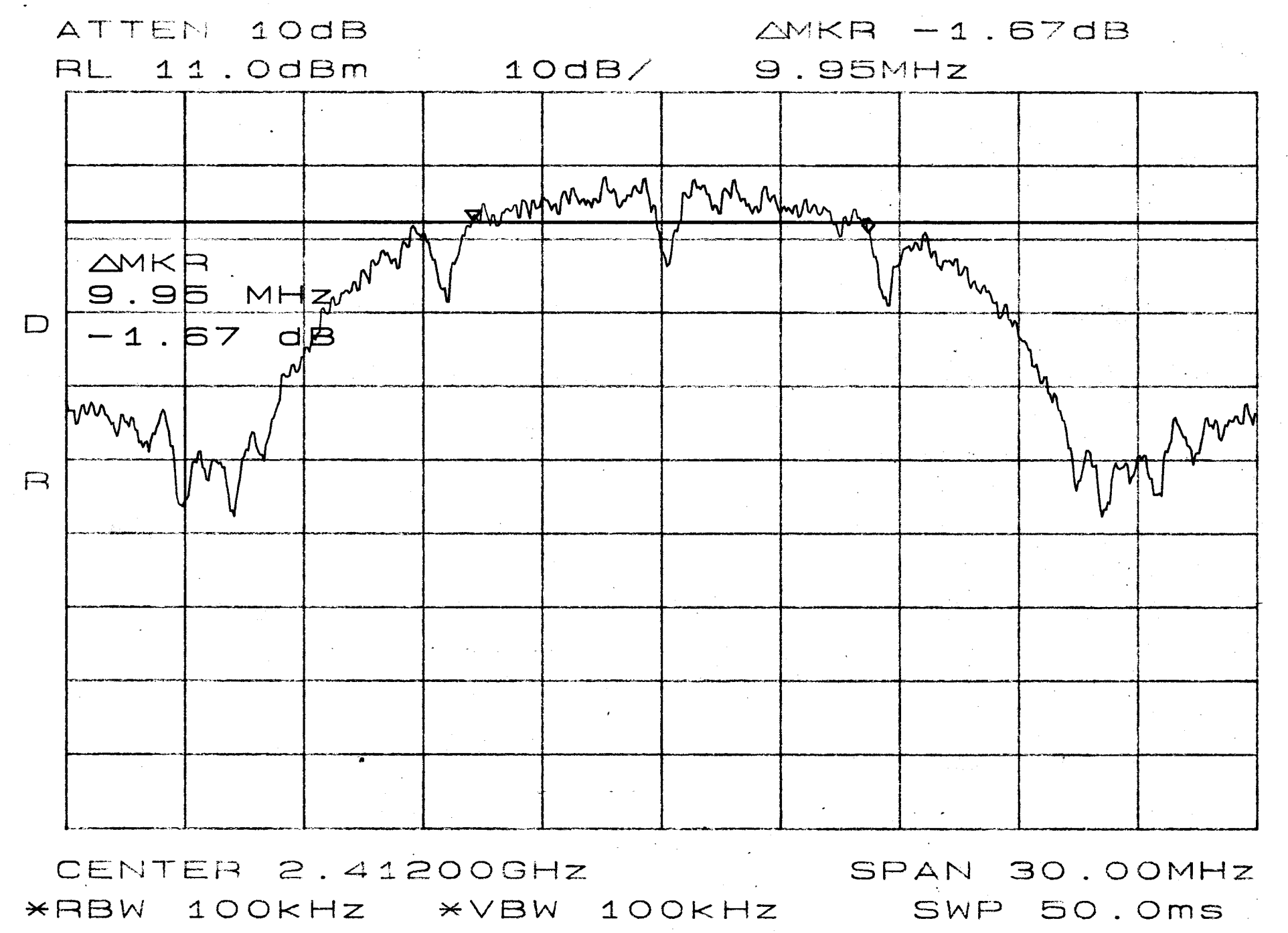


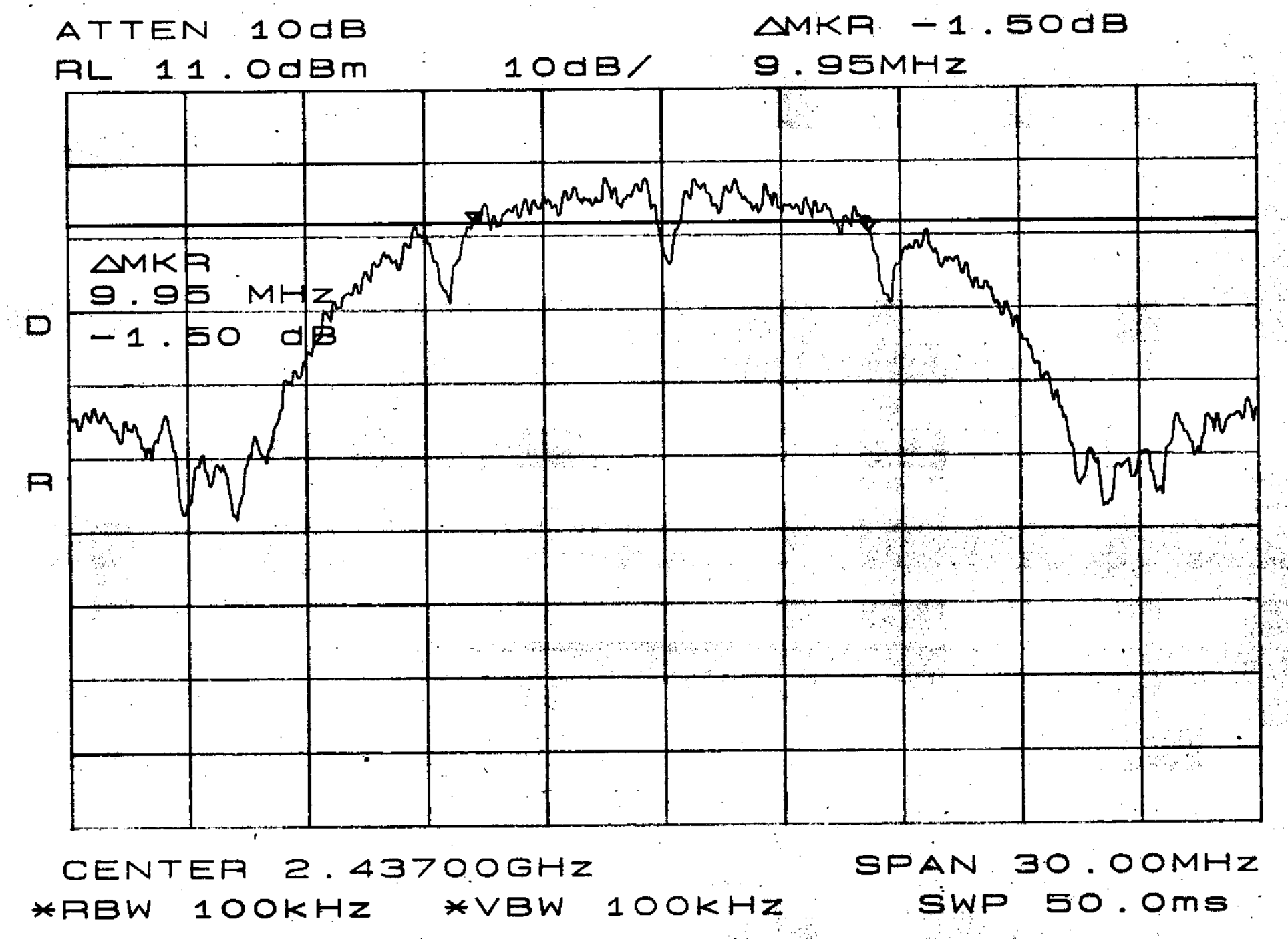
FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP., CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 11 POWER: From Notebook pc LISN: N ETC EMI LAB.

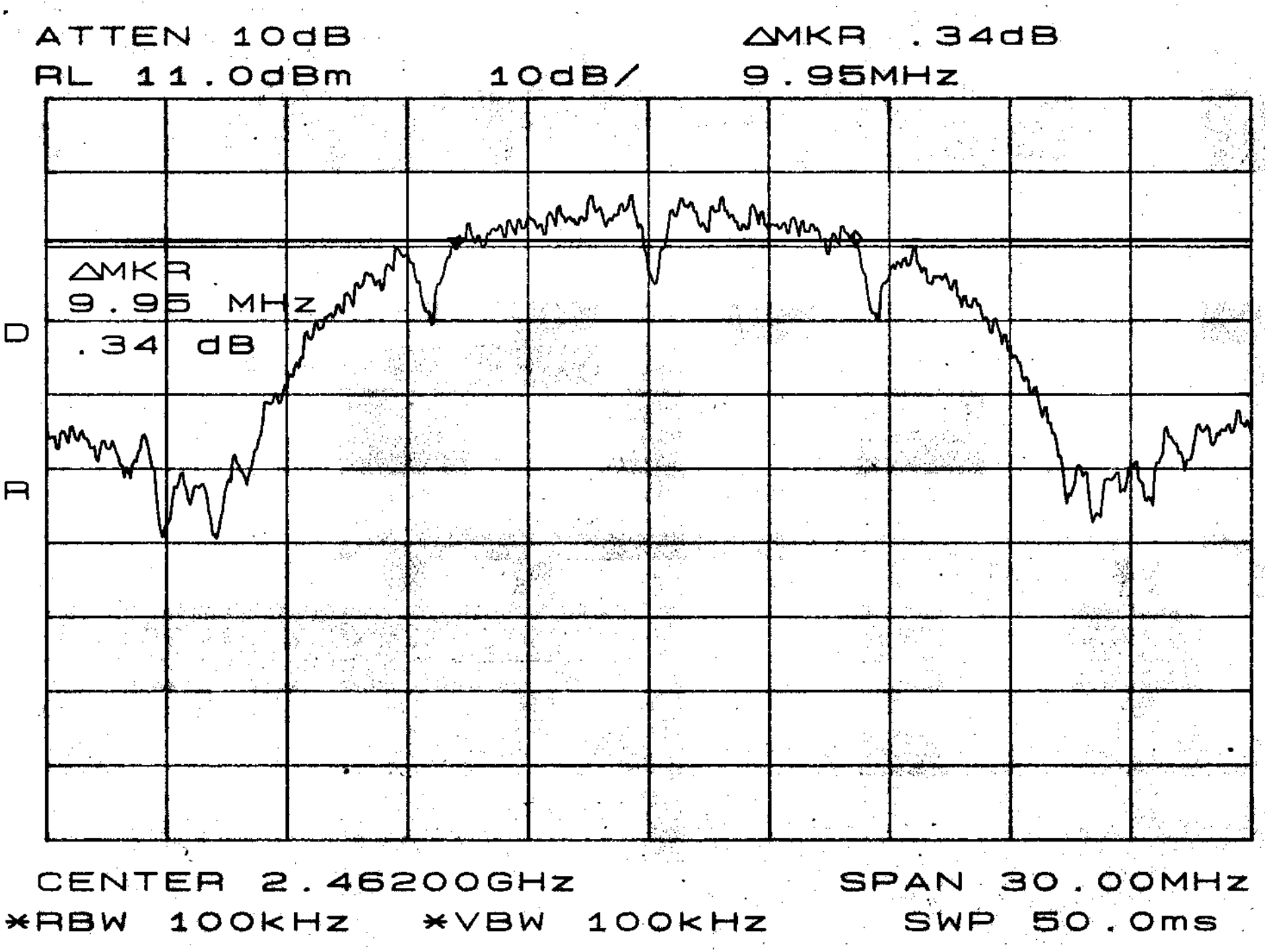


FCC CONDUCTED TEST EUT: WLAN PCMCIA CARD 2: QP., CLASS B LIMIT
MODEL: SL-2011 CD MODE: TX CH 11 POWER: From Notebook PC LISN: L1 ETC EMI LAB.

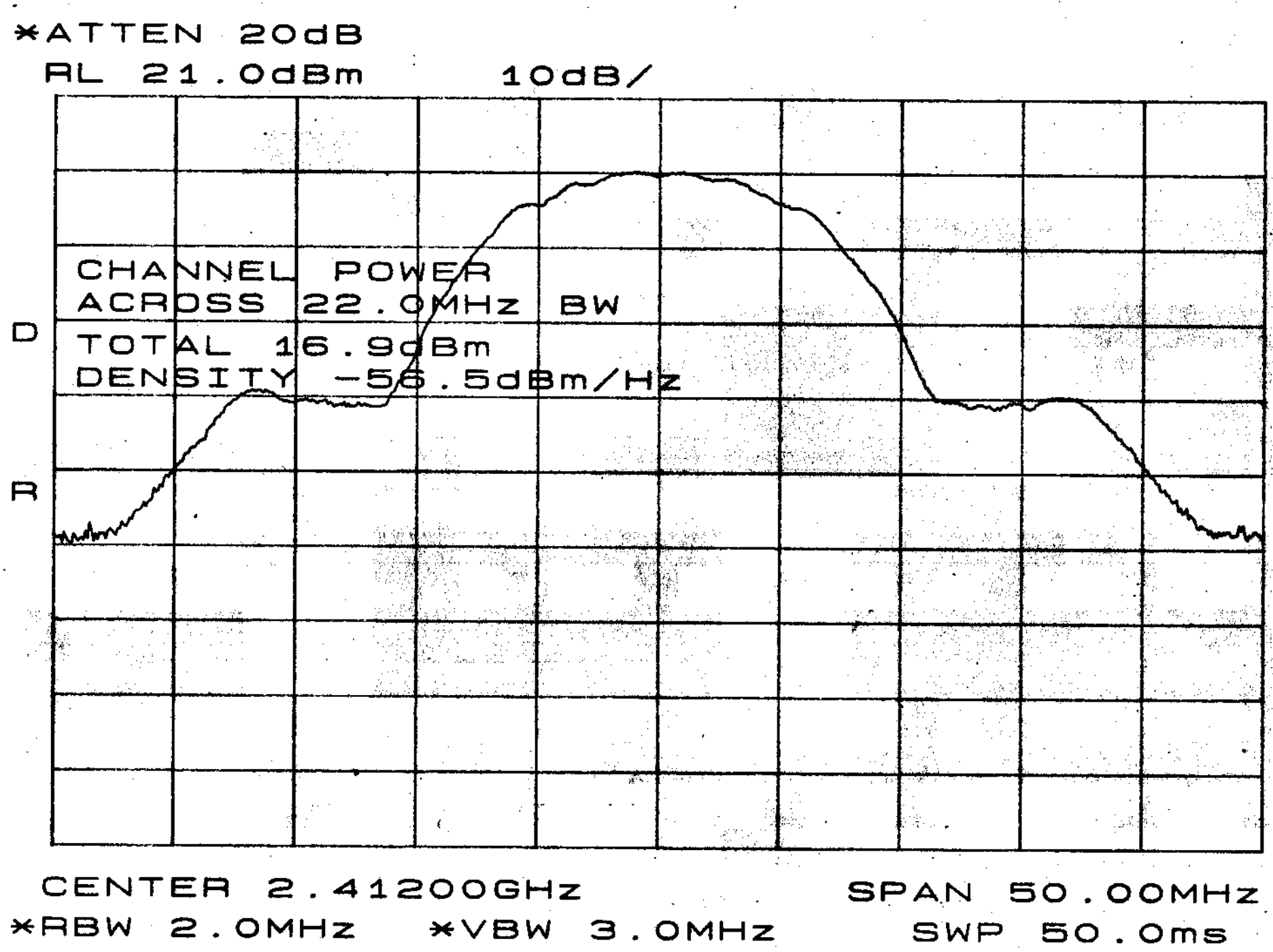
Appendix 2 : Ploted Datas of Emissions Bandwidth

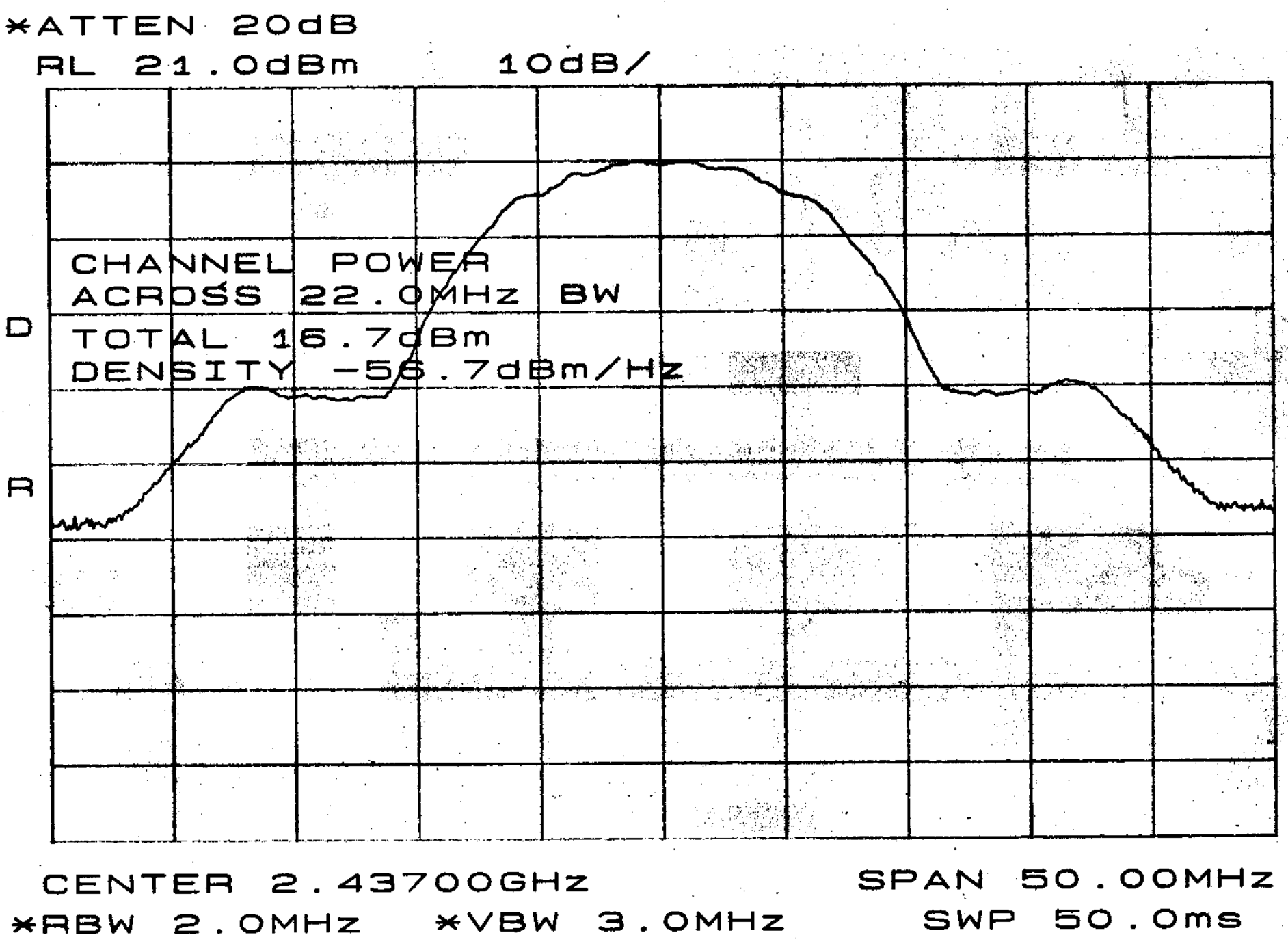

ATTEN 10dB
RL 11.0dBm
10dB/
ΔMKR −1.67dB
9.95MHz
ΔMKR
9.95 MHz
−1.67 dB
D
R
CENTER 2.41200GHz
SPAN 30.00MHz
*RBW 100kHz
*VBW 100kHz
SWP 50.0ms

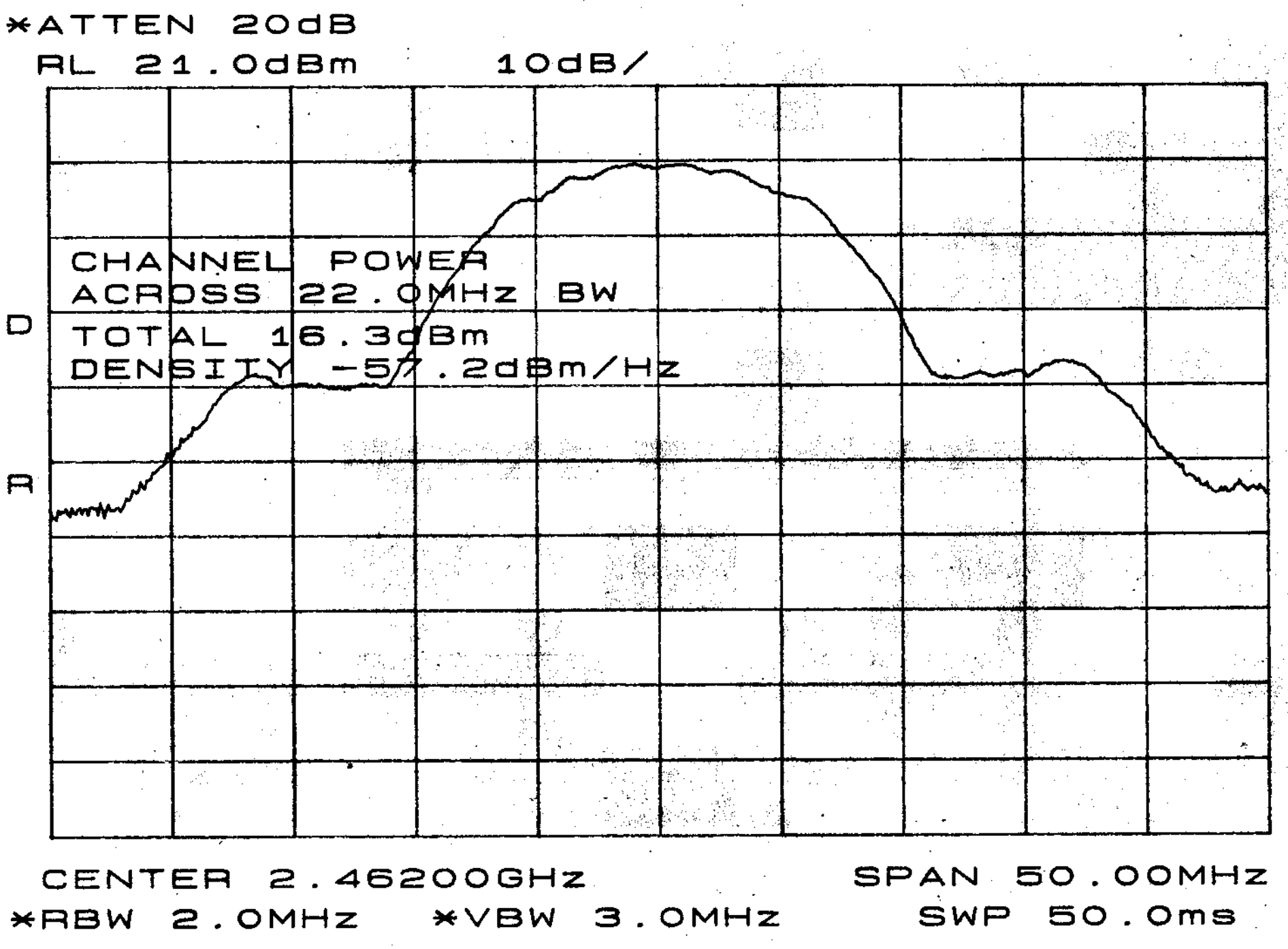

ATTEN 10dB
RL 11.0dBm
10dB/
ΔMKR −1.50dB
9.95MHz
ΔMKR
9.95 MHz
−1.50 dB
D
R
CENTER 2.43700GHz
SPAN 30.00MHz
*RBW 100KHz
*VBW 100KHz
SWP 50.0ms


ATTEN 10dB
ΔMKR .34dB
RL 11.0dBm
10dB/
9.95MHz
ΔMKR
9.95 MHz
.34 dB
D
R
CENTER 2.46200GHz
SPAN 30.00MHz
*RBW 100kHz
*VBW 100kHz
SWP 50.0ms

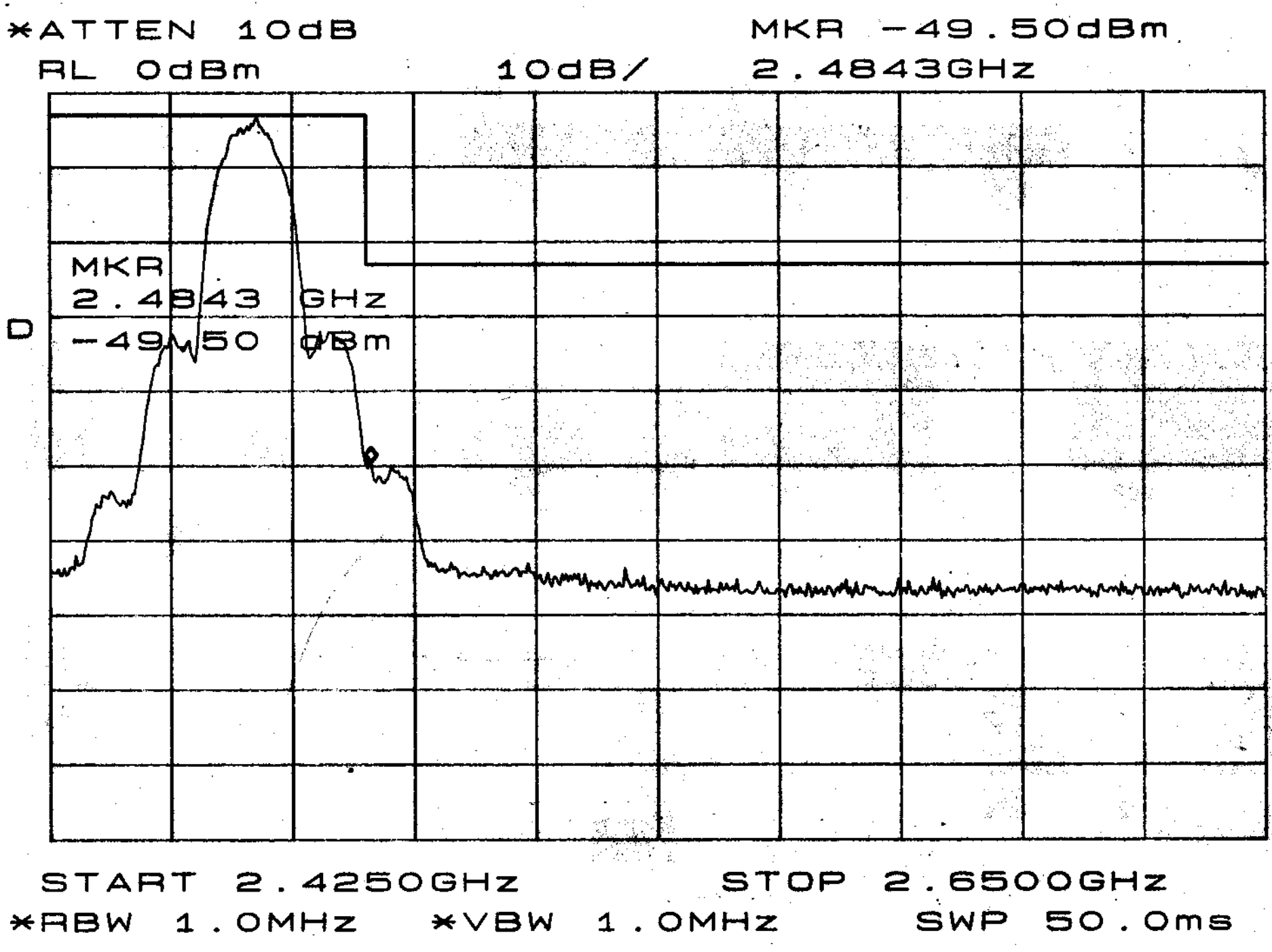
Appendix 3 : Ploted Datas of Output Peak Power

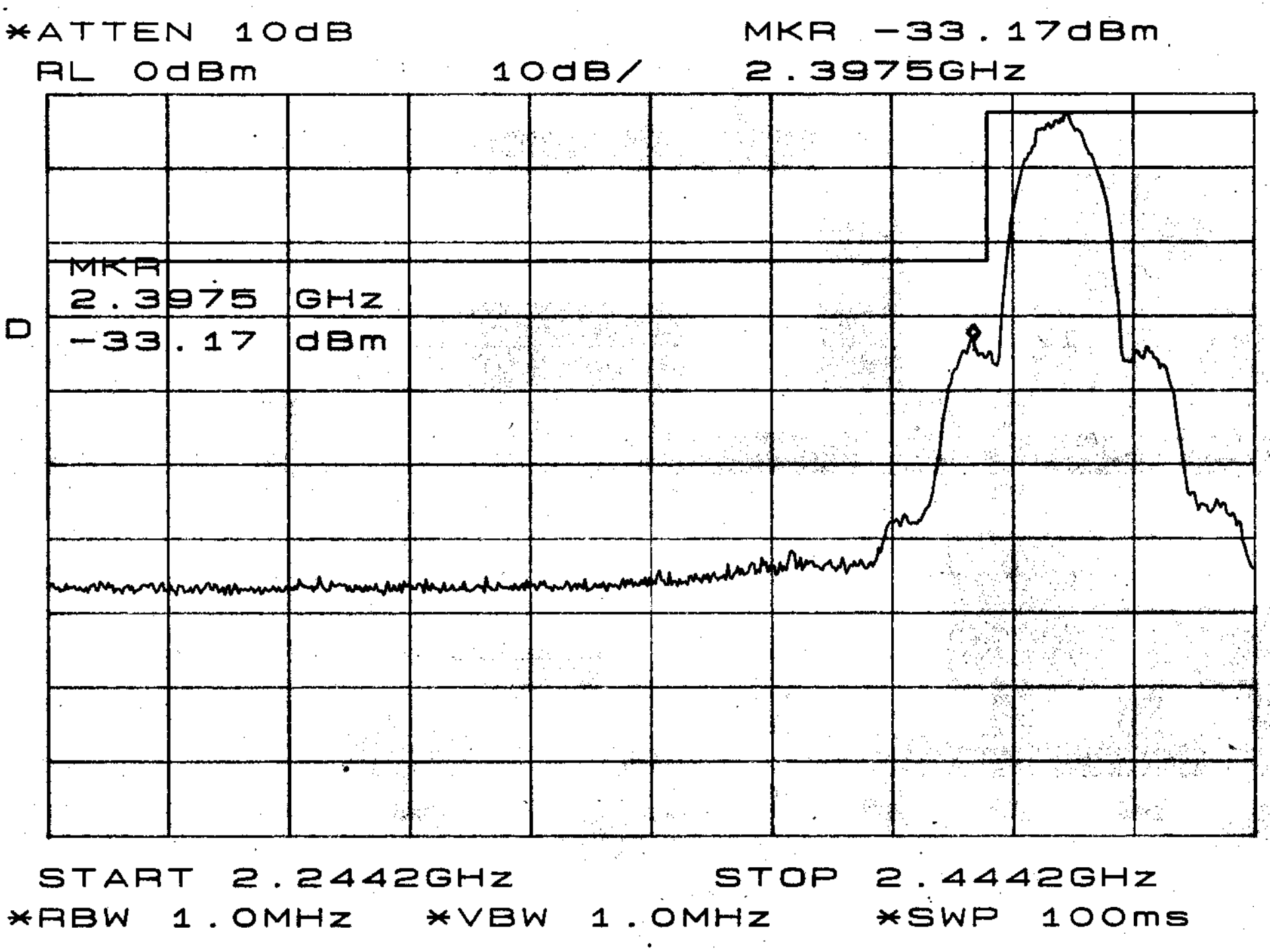

*ATTEN 20dB
RL 21.0dBm
10dB/
CHANNEL POWER
ACROSS 22.0MHz BW
TOTAL 16.9dBm
DENSITY -56.5dBm/Hz
D
R
CENTER 2.41200GHz
SPAN 50.00MHz
*RBW 2.0MHz
*VBW 3.0MHz
SWP 50.0ms


*ATTEN 20dB
RL 21.0dBm
10dB/
CHANNEL POWER
ACROSS 22.0MHz BW
TOTAL 16.7dBm
DENSITY -56.7dBm/Hz
D
R
CENTER 2.43700GHz
SPAN 50.00MHz
*RBW 2.0MHz
*VBW 3.0MHz
SWP 50.0ms

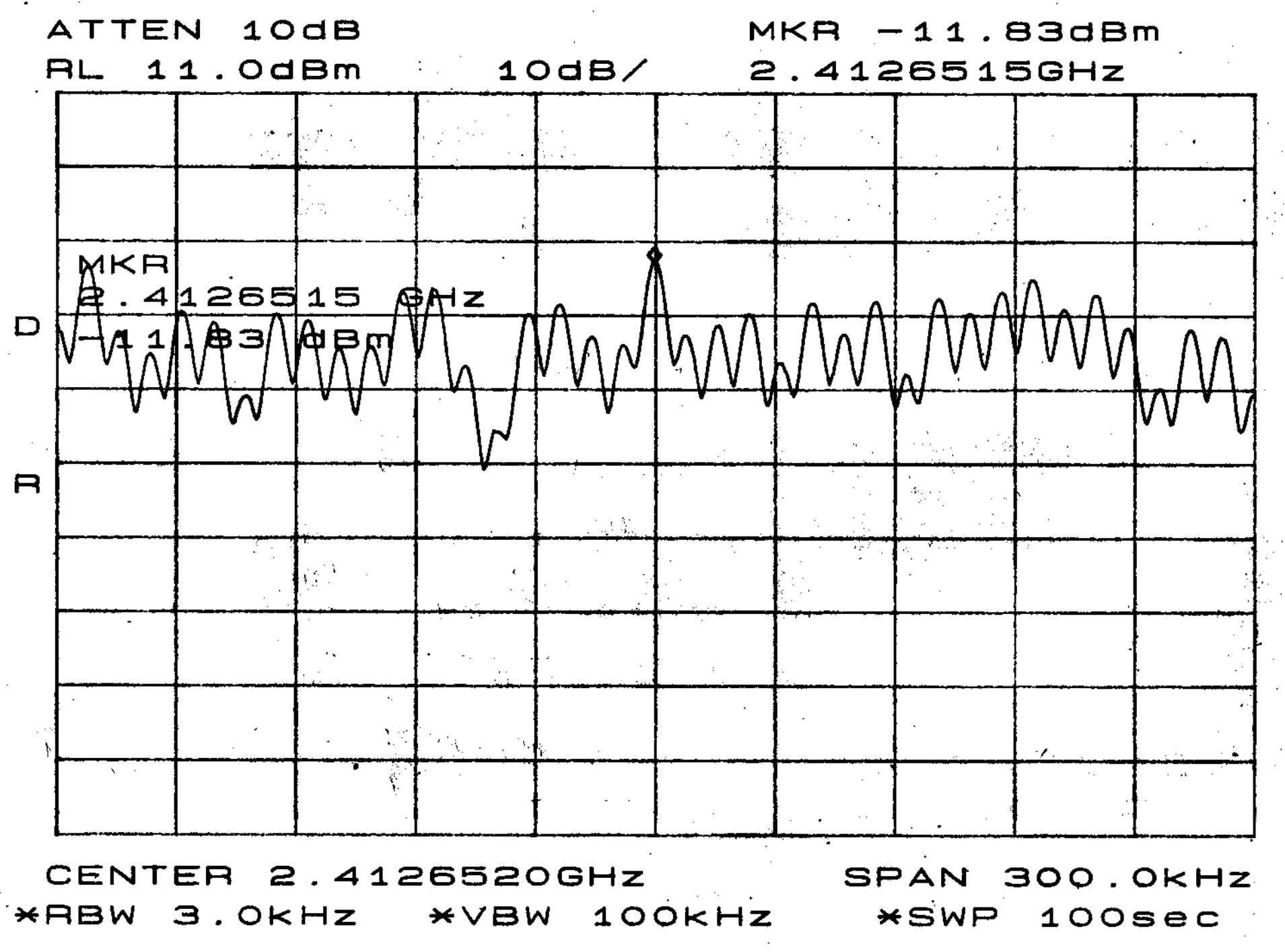

*ATTEN 20dB
RL 21.0dBm
10dB/
CHANNEL POWER
ACROSS 22.0MHz BW
TOTAL 16.3dBm
DENSITY -57.2dBm/Hz
D
R
CENTER 2.46200GHz
SPAN 50.00MHz
*RBW 2.0MHz
*VBW 3.0MHz
SWP 50.0ms

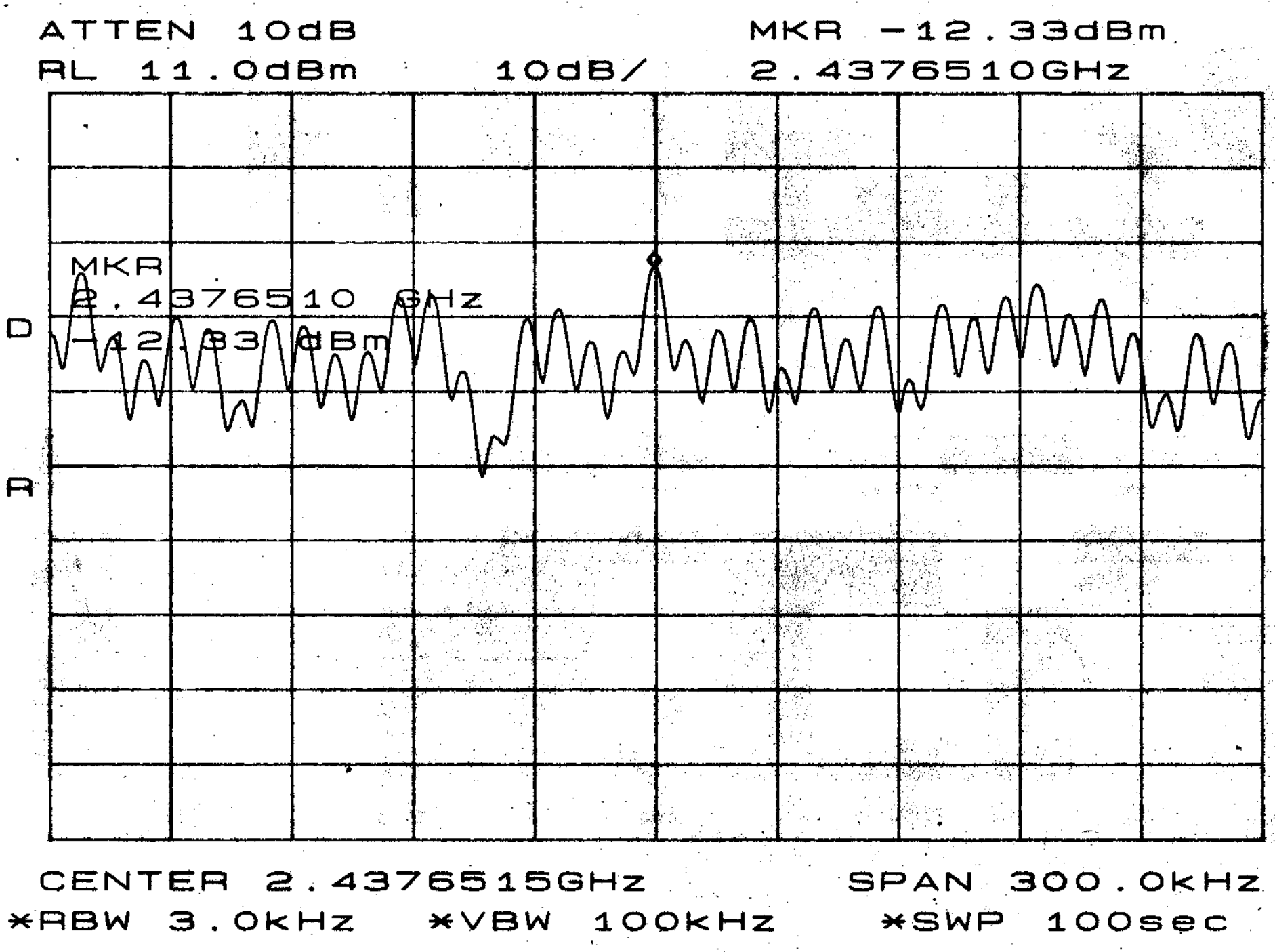
Appendix 4 : Ploted Datas of Band Edge Emission

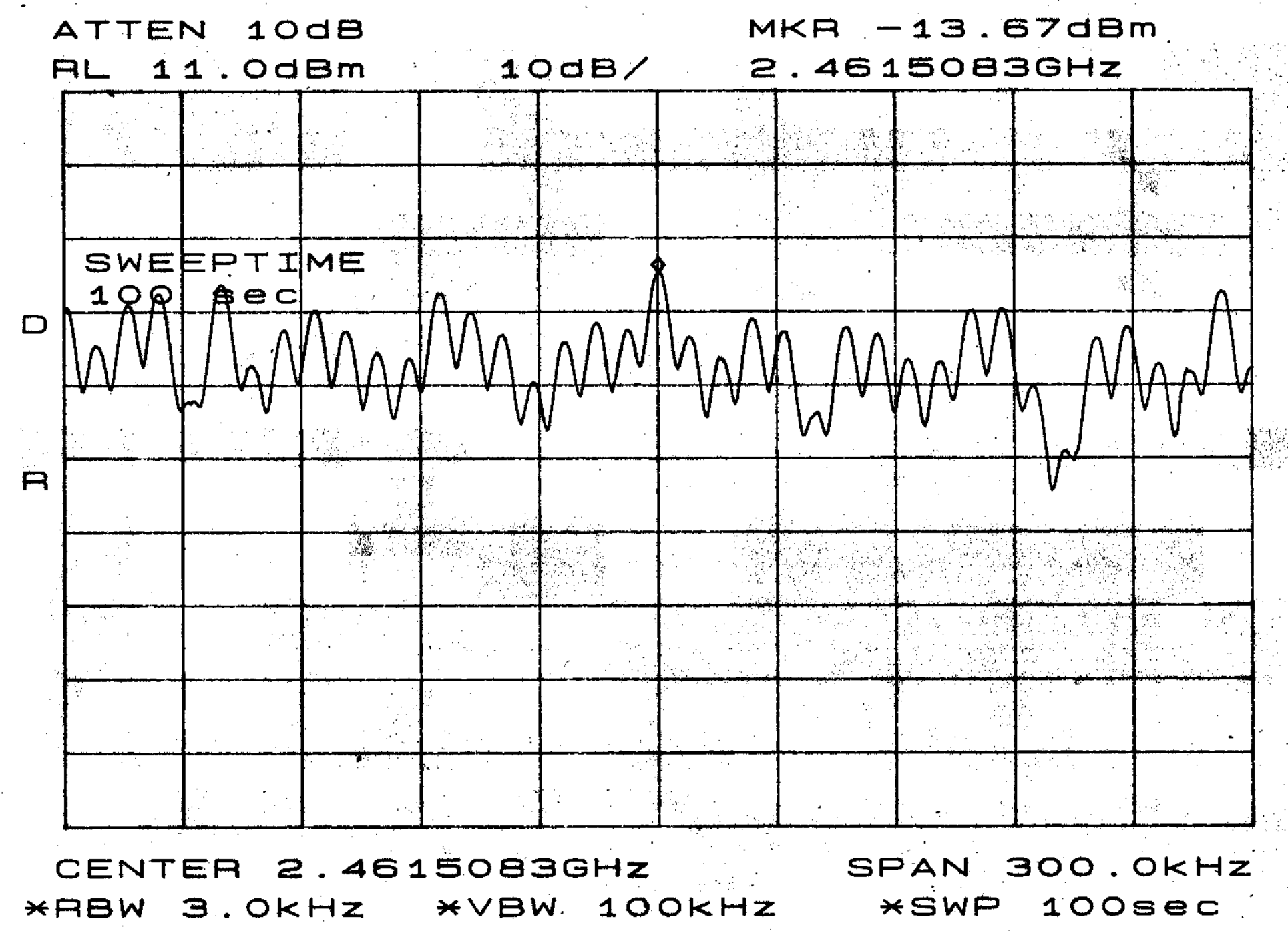

*ATTEN 10dB
MKR -49.50dBm
RL 0dBm
10dB/
2.4843GHz
MKR
2.4843 GHz
-49.50 dBm
D
START 2.4250GHz
STOP 2.6500GHz
*RBW 1.0MHz
*VBW 1.0MHz
SWP 50.0ms


*ATTEN 10dB
MKR -33.17dBm
RL 0dBm
10dB/
2.3975GHz
MKR
2.3975 GHz
-33.17 dBm
D
START 2.2442GHz
STOP 2.4442GHz
*RBW 1.0MHz
*VBW 1.0MHz
*SWP 100ms

Appendix 5 : Ploted Datas of Power Density


ATTEN 10dB
MKR -11.83dBm
RL 11.0dBm
10dB/
2.4126515GHz
MKR
2.4126515 GHz
-11.83 dBm
D
R
CENTER 2.4126520GHz
SPAN 300.0kHz
*RBW 3.0kHz
*VBW 100kHz
*SWP 100sec


ATTEN 10dB
MKR -12.33dBm
RL 11.0dBm
10dB/
2.4376510GHz
MKR
2.4376510 GHz
-12.33 dBm
D
R
CENTER 2.4376515GHz
SPAN 300.0kHz
*RBW 3.0kHz
*VBW 100kHz
*SWP 100sec


ATTEN 10dB
MKR -13.67dBm
RL 11.0dBm
10dB/
2.4615083GHz
SWEEPTIME
100 sec
D
R
CENTER 2.4615083GHz
SPAN 300.0kHz
*RBW 3.0kHz
*VBW 100kHz
*SWP 100sec

Appendix 6 : Processing Gain Tested Data Sheets

2Mbps Channel 1 Processing Gain							
Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2403.50	17.4	12.6	2.8	2	-27.2	-30	5.8
2403.55	17	12.6	2.4	2	-27.6	-30	6.7
2403.60	16.7	12.6	2.1	2	-27.9	-30	6.5
2403.65	16.6	12.6	2	2	-28	-30	6
2403.70	16.5	12.6	1.9	2	-28.1	-30	6.3
2403.75	16.4	12.6	1.8	2	-28.2	-30	6.8
2403.80	16.3	12.6	1.7	2	-28.3	-30	6
2403.85	16.4	12.6	1.8	2	-28.2	-30	5.9
2403.90	16.5	12.6	1.9	2	-28.1	-30	6.4
2403.95	16.5	12.6	1.9	2	-28.1	-30	5.6
2404.00	16.6	12.6	2	2	-28	-30	6.7
2404.05	16.6	12.6	2	2	-28	-30	6.3
2404.10	16.4	12.6	1.8	2	-28.2	-30	6.2
2404.15	16.5	12.6	1.9	2	-28.1	-30	5.4
2404.20	16.5	12.6	1.9	2	-28.1	-30	5.2
2404.25	16.4	12.6	1.8	2	-28.2	-30	6
2404.30	16.3	12.6	1.7	2	-28.3	-30	5.6
2404.35	16.2	12.6	1.6	2	-28.4	-30	6.4
2404.40	16.1	12.6	1.5	2	-28.5	-30	6.2
2404.45	16	12.6	1.4	2	-28.6	-30	6.7
2404.50	15.9	12.6	1.3	2	-28.7	-30	7.3
2404.55	15.7	12.6	1.1	2	-28.9	-30	6.1
2404.60	15.5	12.6	0.9	2	-29.1	-30	5.8
2404.65	15.4	12.6	0.8	2	-29.2	-30	6.9
2404.70	15.4	12.6	0.8	2	-29.2	-30	6.3
2404.75	15.3	12.6	0.7	2	-29.3	-30	6.4
2404.80	15.3	12.6	0.7	2	-29.3	-30	5.7
2404.85	15.2	12.6	0.6	2	-29.4	-30	5.6
2404.90	15.3	12.6	0.7	2	-29.3	-30	5.4
2404.95	15.4	12.6	0.8	2	-29.2	-30	5.1
2405.00	15.4	12.6	0.8	2	-29.2	-30	4.8
2405.05	15.5	12.6	0.9	2	-29.1	-30	5.1
2405.10	15.5	12.6	0.9	2	-29.1	-30	6.3

2405.15	15.5	12.6	0.9	2	-29.1	-30	6.2
2405.20	15.6	12.6	1	2	-29	-30	5.7
2405.25	15.5	12.6	0.9	2	-29.1	-30	5.6
2405.30	15.4	12.6	0.8	2	-29.2	-30	4.7
2405.35	15.3	12.6	0.7	2	-29.3	-30	5.8
2405.40	15.3	12.6	0.7	2	-29.3	-30	6.3
2405.45	14.8	12.6	0.2	2	-29.8	-30	6.7
2405.50	15.7	12.6	1.1	2	-28.9	-30	6.5
2405.55	14.3	12.6	-0.3	2	-30.3	-30	7.3
2405.60	14.2	12.6	-0.4	2	-30.4	-30	6.2
2405.65	14.1	12.6	-0.5	2	-30.5	-30	5.1
2405.70	14.1	12.6	-0.5	2	-30.5	-30	5.5
2405.75	14.1	12.6	-0.5	2	-30.5	-30	5.7
2405.80	14.1	12.6	-0.5	2	-30.5	-30	6
2405.85	14.1	12.6	-0.5	2	-30.5	-30	5.9
2405.90	14.3	12.6	-0.3	2	-30.3	-30	6.1
2405.95	14.4	12.6	-0.2	2	-30.2	-30	7.3
2406.00	14.5	12.6	-0.1	2	-30.1	-30	7.1
2406.05	14.8	12.6	0.2	2	-29.8	-30	6.5
2406.10	15	12.6	0.4	2	-29.6	-30	6.3
2406.15	14.9	12.6	0.3	2	-29.7	-30	6.1
2406.20	15.5	12.6	0.9	2	-29.1	-30	5.5
2406.25	16	12.6	1.4	2	-28.6	-30	5.8
2406.30	17.1	12.6	2.5	2	-27.5	-30	6.6
2406.35	16.8	12.6	2.2	2	-27.8	-30	6.1
2406.40	15.9	12.6	1.3	2	-28.7	-30	6.7
2406.45	16.3	12.6	1.7	2	-28.3	-30	6.5
2406.50	16.1	12.6	1.5	2	-28.5	-30	7.6
2406.55	15.7	12.6	1.1	2	-28.9	-30	7.1
2406.60	16	12.6	1.4	2	-28.6	-30	7.3
2406.65	16.2	12.6	1.6	2	-28.4	-30	6.8
2406.70	15.8	12.6	1.2	2	-28.8	-30	6.2
2406.75	15.6	12.6	1	2	-29	-30	5.9
2406.80	15.2	12.6	0.6	2	-29.4	-30	5.6
2406.85	14.9	12.6	0.3	2	-29.7	-30	5.4
2406.90	14.2	12.6	-0.4	2	-30.4	-30	5.9

2406.95	13.8	12.6	-0.8	2	-30.8	-30	6
2407.00	13.7	12.6	-0.9	2	-30.9	-30	5.3
2407.05	13.4	12.6	-1.2	2	-31.2	-30	5.1
2407.10	13.6	12.6	-1	2	-31	-30	4.8
2407.15	13.5	12.6	-1.1	2	-31.1	-30	5.3
2407.20	13.1	12.6	-1.5	2	-31.5	-30	5.8
2407.25	13.2	12.6	-1.4	2	-31.4	-30	6.7
2407.30	13.5	12.6	-1.1	2	-31.1	-30	6.3
2407.35	13.1	12.6	-1.5	2	-31.5	-30	6.1
2407.40	13.5	12.6	-1.1	2	-31.1	-30	7.2
2407.45	13.6	12.6	-1	2	-31	-30	6.3
2407.50	13.8	12.6	-0.8	2	-30.8	-30	5.6
2407.55	14	12.6	-0.6	2	-30.6	-30	5.7
2407.60	13.8	12.6	-0.8	2	-30.8	-30	6.2
2407.65	13.7	12.6	-0.9	2	-30.9	-30	5.6
2407.70	13.8	12.6	-0.8	2	-30.8	-30	5.8
2407.75	13.8	12.6	-0.8	2	-30.8	-30	7.1
2407.80	13.7	12.6	-0.9	2	-30.9	-30	6.3
2407.85	13.7	12.6	-0.9	2	-30.9	-30	6.2
2407.90	13.7	12.6	-0.9	2	-30.9	-30	5.4
2407.95	13.6	12.6	-1	2	-31	-30	5.2
2408.00	13.6	12.6	-1	2	-31	-30	6.1
2408.05	13.3	12.6	-1.3	2	-31.3	-30	6.3
2408.10	13.1	12.6	-1.5	2	-31.5	-30	5.8
2408.15	13.1	12.6	-1.5	2	-31.5	-30	7.4
2408.20	12.9	12.6	-1.7	2	-31.7	-30	6.4
2408.25	13.1	12.6	-1.5	2	-31.5	-30	6.1
2408.30	12.8	12.6	-1.8	2	-31.8	-30	4.8
2408.35	12.8	12.6	-1.8	2	-31.8	-30	5.7
2408.40	12.8	12.6	-1.8	2	-31.8	-30	6.2
2408.45	12.9	12.6	-1.7	2	-31.7	-30	6.7
2408.50	12.9	12.6	-1.7	2	-31.7	-30	5.4
2408.55	12.8	12.6	-1.8	2	-31.8	-30	5.2
2408.60	13.1	12.6	-1.5	2	-31.5	-30	5.8
2408.65	13.2	12.6	-1.4	2	-31.4	-30	6.1
2408.70	12.8	12.6	-1.8	2	-31.8	-30	6.7

2408.75	12.8	12.6	-1.8	2	-31.8	-30	6.6
2408.80	12.9	12.6	-1.7	2	-31.7	-30	5.7
2408.85	12.7	12.6	-1.9	2	-31.9	-30	5.6
2408.90	12.7	12.6	-1.9	2	-31.9	-30	6.2
2408.95	12.5	12.6	-2.1	2	-32.1	-30	6.4
2409.00	12.4	12.6	-2.2	2	-32.2	-30	4.8
2409.05	12.2	12.6	-2.4	2	-32.4	-30	6.3
2409.10	12.4	12.6	-2.2	2	-32.2	-30	5.4
2409.15	12.1	12.6	-2.5	2	-32.5	-30	6.1
2409.20	12.7	12.6	-1.9	2	-31.9	-30	6.2
2409.25	12.1	12.6	-2.5	2	-32.5	-30	5.8
2409.30	12.1	12.6	-2.5	2	-32.5	-30	6.7
2409.35	12.2	12.6	-2.4	2	-32.4	-30	6.2
2409.40	11.9	12.6	-2.7	2	-32.7	-30	6.3
2409.45	12.2	12.6	-2.4	2	-32.4	-30	6.6
2409.50	12.1	12.6	-2.5	2	-32.5	-30	6.5
2409.55	12	12.6	-2.6	2	-32.6	-30	6.9
2409.60	12.1	12.6	-2.5	2	-32.5	-30	7.6
2409.65	12.3	12.6	-2.3	2	-32.3	-30	6.3
2409.70	12.1	12.6	-2.5	2	-32.5	-30	5.9
2409.75	12	12.6	-2.6	2	-32.6	-30	6.4
2409.80	12.1	12.6	-2.5	2	-32.5	-30	6.1
2409.85	12.3	12.6	-2.3	2	-32.3	-30	6.2
2409.90	12	12.6	-2.6	2	-32.6	-30	5.8
2409.95	12	12.6	-2.6	2	-32.6	-30	5.3
2410.00	11.8	12.6	-2.8	2	-32.8	-30	5.6
2410.05	11.8	12.6	-2.8	2	-32.8	-30	5.5
2410.10	11.5	12.6	-3.1	2	-33.1	-30	6.3
2410.15	11.8	12.6	-2.8	2	-32.8	-30	9.8
2410.20	11.2	12.6	-3.4	2	-33.4	-30	6.6
2410.25	11.6	12.6	-3	2	-33	-30	6.1
2410.30	11.3	12.6	-3.3	2	-33.3	-30	6.7
2410.35	11.6	12.6	-3	2	-33	-30	5.7
2410.40	11.6	12.6	-3	2	-33	-30	7.6
2410.45	11.7	12.6	-2.9	2	-32.9	-30	7.2
2410.50	11.8	12.6	-2.8	2	-32.8	-30	7.1

2410.55	11.9	12.6	-2.7	2	-32.7	-30	6.8
2410.60	11.9	12.6	-2.7	2	-32.7	-30	6.3
2410.65	12	12.6	-2.6	2	-32.6	-30	6.5
2410.70	11.9	12.6	-2.7	2	-32.7	-30	6.1
2410.75	11.9	12.6	-2.7	2	-32.7	-30	6.2
2410.80	11.9	12.6	-2.7	2	-32.7	-30	6.9
2410.85	12.1	12.6	-2.5	2	-32.5	-30	6.6
2410.90	11.9	12.6	-2.7	2	-32.7	-30	6.1
2410.95	11.7	12.6	-2.9	2	-32.9	-30	6.7
2411.00	11.5	12.6	-3.1	2	-33.1	-30	6.6
2411.05	11.4	12.6	-3.2	2	-33.2	-30	6.3
2411.10	11	12.6	-3.6	2	-33.6	-30	6.8
2411.15	11.2	12.6	-3.4	2	-33.4	-30	6.1
2411.20	11	12.6	-3.6	2	-33.6	-30	6.7
2411.25	11.1	12.6	-3.5	2	-33.5	-30	6.4
2411.30	11.1	12.6	-3.5	2	-33.5	-30	4.8
2411.35	11.3	12.6	-3.3	2	-33.3	-30	5.6
2411.40	11.2	12.6	-3.4	2	-33.4	-30	6.3
2411.45	11.3	12.6	-3.3	2	-33.3	-30	6.7
2411.50	11.6	12.6	-3	2	-33	-30	6.2
2411.55	12.4	12.6	-2.2	2	-32.2	-30	6.8
2411.60	12.6	12.6	-2	2	-32	-30	6.3
2411.65	12.8	12.6	-1.8	2	-31.8	-30	5.9
2411.70	13.7	12.6	-0.9	2	-30.9	-30	6
2411.75	16	12.6	1.4	2	-28.6	-30	5.7
2411.80	16.4	12.6	1.8	2	-28.2	-30	7.9
2411.85	16.3	12.6	1.7	2	-28.3	-30	6.4
2411.90	16.6	12.6	2	2	-28	-30	4.8
2411.95	16.8	12.6	2.2	2	-27.8	-30	6.9
2412.00	16.5	12.6	1.9	2	-28.1	-30	5.4
2412.05	15.8	12.6	1.2	2	-28.8	-30	6.5
2412.10	15.7	12.6	1.1	2	-28.9	-30	7.6
2412.15	15.4	12.6	0.8	2	-29.2	-30	7.1
2412.20	15.2	12.6	0.6	2	-29.4	-30	6.7
2412.25	14.3	12.6	-0.3	2	-30.3	-30	5.6
2412.30	13	12.6	-1.6	2	-31.6	-30	7.4

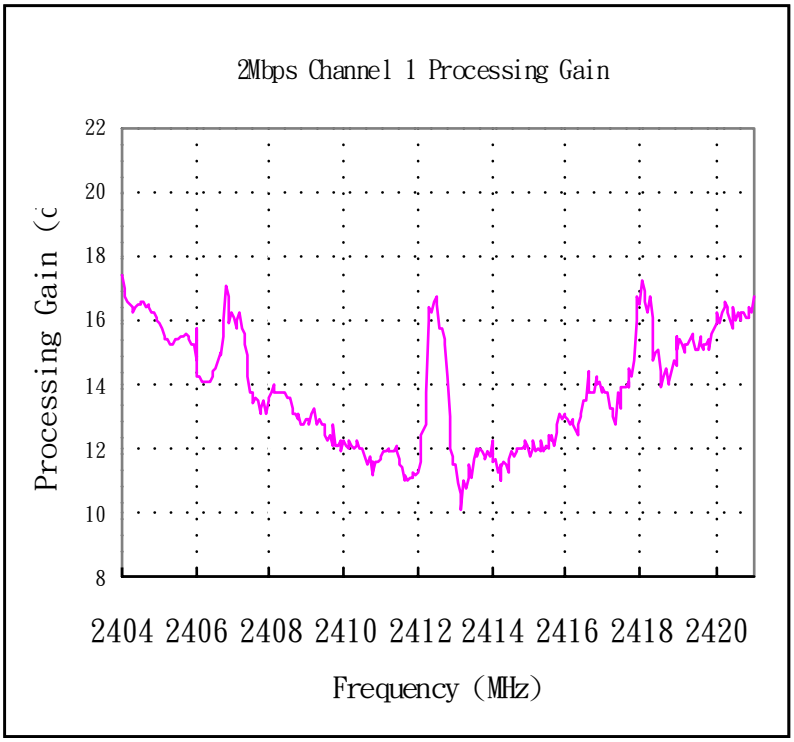
2412.35	12	12.6	-2.6	2	-32.6	-30	6.8
2412.40	11.8	12.6	-2.8	2	-32.8	-30	6.3
2412.45	11.5	12.6	-3.1	2	-33.1	-30	5.9
2412.50	11.5	12.6	-3.1	2	-33.1	-30	6.2
2412.55	10.9	12.6	-3.7	2	-33.7	-30	7.1
2412.60	10.6	12.6	-4	2	-34	-30	7.3
2412.65	10.1	12.6	-4.5	2	-34.5	-30	7.4
2412.70	11	12.6	-3.6	2	-33.6	-30	6.8
2412.75	10.8	12.6	-3.8	2	-33.8	-30	5.8
2412.80	11.1	12.6	-3.5	2	-33.5	-30	6.7
2412.85	11.5	12.6	-3.1	2	-33.1	-30	6.6
2412.90	11.1	12.6	-3.5	2	-33.5	-30	6.9
2412.95	11.7	12.6	-2.9	2	-32.9	-30	7
2413.00	12	12.6	-2.6	2	-32.6	-30	7.6
2413.05	11.9	12.6	-2.7	2	-32.7	-30	6.3
2413.10	11.8	12.6	-2.8	2	-32.8	-30	5.2
2413.15	12	12.6	-2.6	2	-32.6	-30	5.4
2413.20	11.9	12.6	-2.7	2	-32.7	-30	4.6
2413.25	11.8	12.6	-2.8	2	-32.8	-30	5.6
2413.30	11.7	12.6	-2.9	2	-32.9	-30	7.4
2413.35	11.9	12.6	-2.7	2	-32.7	-30	6.8
2413.40	11.8	12.6	-2.8	2	-32.8	-30	6.3
2413.45	12.3	12.6	-2.3	2	-32.3	-30	5.9
2413.50	11.6	12.6	-3	2	-33	-30	6.2
2413.55	11.7	12.6	-2.9	2	-32.9	-30	7.1
2413.60	11.3	12.6	-3.3	2	-33.3	-30	7.3
2413.65	11.5	12.6	-3.1	2	-33.1	-30	7.4
2413.70	11	12.6	-3.6	2	-33.6	-30	6.1
2413.75	11.4	12.6	-3.2	2	-33.2	-30	5.8
2413.80	11.6	12.6	-3	2	-33	-30	6.7
2413.85	11.5	12.6	-3.1	2	-33.1	-30	5.3
2413.90	11.3	12.6	-3.3	2	-33.3	-30	5.8
2413.95	11.7	12.6	-2.9	2	-32.9	-30	6.3
2414.00	11.9	12.6	-2.7	2	-32.7	-30	6.7
2414.05	11.8	12.6	-2.8	2	-32.8	-30	6.2
2414.10	11.9	12.6	-2.7	2	-32.7	-30	5.6

2414.15	12	12.6	-2.6	2	-32.6	-30	6.3
2414.20	12	12.6	-2.6	2	-32.6	-30	6.8
2414.25	12	12.6	-2.6	2	-32.6	-30	6.1
2414.30	12.1	12.6	-2.5	2	-32.5	-30	6.9
2414.35	12	12.6	-2.6	2	-32.6	-30	6.2
2414.40	12.3	12.6	-2.3	2	-32.3	-30	5.9
2414.45	12.1	12.6	-2.5	2	-32.5	-30	6.1
2414.50	11.8	12.6	-2.8	2	-32.8	-30	5.7
2414.55	12	12.6	-2.6	2	-32.6	-30	6.6
2414.60	12.2	12.6	-2.4	2	-32.4	-30	4.8
2414.65	11.9	12.6	-2.7	2	-32.7	-30	5
2414.70	12	12.6	-2.6	2	-32.6	-30	4.4
2414.75	11.9	12.6	-2.7	2	-32.7	-30	5.8
2414.80	12.3	12.6	-2.3	2	-32.3	-30	7.1
2414.85	11.9	12.6	-2.7	2	-32.7	-30	4.8
2414.90	12.1	12.6	-2.5	2	-32.5	-30	5.7
2414.95	12	12.6	-2.6	2	-32.6	-30	6.5
2415.00	12.4	12.6	-2.2	2	-32.2	-30	5.8
2415.05	12.3	12.6	-2.3	2	-32.3	-30	6.7
2415.10	12.4	12.6	-2.2	2	-32.2	-30	6.6
2415.15	12.1	12.6	-2.5	2	-32.5	-30	6.1
2415.20	12.5	12.6	-2.1	2	-32.1	-30	5.9
2415.25	12.8	12.6	-1.8	2	-31.8	-30	6.2
2415.30	13.1	12.6	-1.5	2	-31.5	-30	5.6
2415.35	12.9	12.6	-1.7	2	-31.7	-30	6.8
2415.40	13.1	12.6	-1.5	2	-31.5	-30	6.3
2415.45	13	12.6	-1.6	2	-31.6	-30	5.9
2415.50	12.9	12.6	-1.7	2	-31.7	-30	5.7
2415.55	12.8	12.6	-1.8	2	-31.8	-30	6.3
2415.60	12.9	12.6	-1.7	2	-31.7	-30	6
2415.65	12.8	12.6	-1.8	2	-31.8	-30	6.1
2415.70	12.6	12.6	-2	2	-32	-30	5.7
2415.75	12.4	12.6	-2.2	2	-32.2	-30	5.9
2415.80	12.8	12.6	-1.8	2	-31.8	-30	5.5
2415.85	13	12.6	-1.6	2	-31.6	-30	5.3
2415.90	13.1	12.6	-1.5	2	-31.5	-30	5.4

2415.95	13.5	12.6	-1.1	2	-31.1	-30	5.1
2416.00	13.5	12.6	-1.1	2	-31.1	-30	5.4
2416.05	14.4	12.6	-0.2	2	-30.2	-30	6.3
2416.10	13.8	12.6	-0.8	2	-30.8	-30	7.6
2416.15	13.8	12.6	-0.8	2	-30.8	-30	7.1
2416.20	13.8	12.6	-0.8	2	-30.8	-30	7
2416.25	14.2	12.6	-0.4	2	-30.4	-30	6.3
2416.30	14	12.6	-0.6	2	-30.6	-30	5.4
2416.35	14.1	12.6	-0.5	2	-30.5	-30	5.8
2416.40	13.8	12.6	-0.8	2	-30.8	-30	6.2
2416.45	13.9	12.6	-0.7	2	-30.7	-30	7
2416.50	13.7	12.6	-0.9	2	-30.9	-30	6.3
2416.55	13.8	12.6	-0.8	2	-30.8	-30	6.9
2416.60	13.7	12.6	-0.9	2	-30.9	-30	5.7
2416.65	13.3	12.6	-1.3	2	-31.3	-30	5.2
2416.70	13.3	12.6	-1.3	2	-31.3	-30	7.1
2416.75	13	12.6	-1.6	2	-31.6	-30	6.7
2416.80	12.8	12.6	-1.8	2	-31.8	-30	6.3
2416.85	13.8	12.6	-0.8	2	-30.8	-30	6.4
2416.90	13.3	12.6	-1.3	2	-31.3	-30	6.8
2416.95	13.9	12.6	-0.7	2	-30.7	-30	7
2417.00	13.9	12.6	-0.7	2	-30.7	-30	6.3
2417.05	13.9	12.6	-0.7	2	-30.7	-30	6.7
2417.10	14.1	12.6	-0.5	2	-30.5	-30	6
2417.15	13.9	12.6	-0.7	2	-30.7	-30	6.3
2417.20	14.5	12.6	-0.1	2	-30.1	-30	6.6
2417.25	14.3	12.6	-0.3	2	-30.3	-30	7.2
2417.30	14.8	12.6	0.2	2	-29.8	-30	6.1
2417.35	16	12.6	1.4	2	-28.6	-30	6.4
2417.40	16.8	12.6	2.2	2	-27.8	-30	6.9
2417.45	16.5	12.6	1.9	2	-28.1	-30	6.8
2417.50	17.3	12.6	2.7	2	-27.3	-30	7.1
2417.55	16.9	12.6	2.3	2	-27.7	-30	6.3
2417.60	16.6	12.6	2	2	-28	-30	5.8
2417.65	16.3	12.6	1.7	2	-28.3	-30	6.5
2417.70	16.7	12.6	2.1	2	-27.9	-30	6.3

2417.75	16.1	12.6	1.5	2	-28.5	-30	5.7
2417.80	15.8	12.6	1.2	2	-28.8	-30	5.9
2417.85	14.8	12.6	0.2	2	-29.8	-30	6.1
2417.90	15	12.6	0.4	2	-29.6	-30	6
2417.95	15.1	12.6	0.5	2	-29.5	-30	6.3
2418.00	14.4	12.6	-0.2	2	-30.2	-30	5.9
2418.05	13.9	12.6	-0.7	2	-30.7	-30	6.5
2418.10	14.2	12.6	-0.4	2	-30.4	-30	7.1
2418.15	14.5	12.6	-0.1	2	-30.1	-30	6.7
2418.20	14	12.6	-0.6	2	-30.6	-30	6
2418.25	14.1	12.6	-0.5	2	-30.5	-30	6.4
2418.30	14.4	12.6	-0.2	2	-30.2	-30	6.6
2418.35	14.7	12.6	0.1	2	-29.9	-30	6.3
2418.40	14.6	12.6	0	2	-30	-30	6.2
2418.45	15.5	12.6	0.9	2	-29.1	-30	5.9
2418.50	15.1	12.6	0.5	2	-29.5	-30	6.2
2418.55	15.4	12.6	0.8	2	-29.2	-30	5.8
2418.60	15.2	12.6	0.6	2	-29.4	-30	5.6
2418.65	15	12.6	0.4	2	-29.6	-30	4.9
2418.70	15.3	12.6	0.7	2	-29.3	-30	5
2418.75	15.2	12.6	0.6	2	-29.4	-30	5.3
2418.80	15.4	12.6	0.8	2	-29.2	-30	5.7
2418.85	15.6	12.6	1	2	-29	-30	6
2418.90	15.4	12.6	0.8	2	-29.2	-30	6.2
2418.95	15.1	12.6	0.5	2	-29.5	-30	6
2419.00	15.1	12.6	0.5	2	-29.5	-30	6.1
2419.05	15.5	12.6	0.9	2	-29.1	-30	5.8
2419.10	15.3	12.6	0.7	2	-29.3	-30	5.6
2419.15	15.1	12.6	0.5	2	-29.5	-30	5.7
2419.20	15.3	12.6	0.7	2	-29.3	-30	5.2
2419.25	15.2	12.6	0.6	2	-29.4	-30	5.8
2419.30	15.4	12.6	0.8	2	-29.2	-30	6.4
2419.35	15.1	12.6	0.5	2	-29.5	-30	9.9
2419.40	15.6	12.6	1	2	-29	-30	7.4
2419.45	15.8	12.6	1.2	2	-28.8	-30	6.3
2419.50	15.9	12.6	1.3	2	-28.7	-30	5.6

2419.55	16.2	12.6	1.6	2	-28.4	-30	6.4
2419.60	15.9	12.6	1.3	2	-28.7	-30	7.6
2419.65	16.3	12.6	1.7	2	-28.3	-30	6.8
2419.70	16.4	12.6	1.8	2	-28.2	-30	6.6
2419.75	16.6	12.6	2	2	-28	-30	6.2
2419.80	16.4	12.6	1.8	2	-28.2	-30	6.8
2419.85	16.3	12.6	1.7	2	-28.3	-30	6.5
2419.90	16	12.6	1.4	2	-28.6	-30	6.3
2419.95	15.8	12.6	1.2	2	-28.8	-30	6.9
2420.00	16.4	12.6	1.8	2	-28.2	-30	7.3
2420.05	16	12.6	1.4	2	-28.6	-30	6.6
2420.10	16.2	12.6	1.6	2	-28.4	-30	6.8
2420.15	16	12.6	1.4	2	-28.6	-30	5.1
2420.20	16.3	12.6	1.7	2	-28.3	-30	6.3
2420.25	16.2	12.6	1.6	2	-28.4	-30	7.1
2420.30	16.1	12.6	1.5	2	-28.5	-30	6.6
2420.35	16.1	12.6	1.5	2	-28.5	-30	6.1
2420.40	16.4	12.6	1.8	2	-28.2	-30	5.7
2420.45	16.2	12.6	1.6	2	-28.4	-30	6.4
2420.50	16.7	12.6	2.1	2	-27.9	-30	6.2
Processing Gain (dB) @20th Percentile=				12			


2Mbps Channel 1 Processing Gain
Processing Gain (c
22
20
18
16
14
12
10
8
2404 2406 2408 2410 2412 2414 2416 2418 2420
Frequency (MHz)

2Mbps Channel 6 Processing Gain							
Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2428.50	18.3	12.6	3.7	2	-28.5	-32.2	7
2428.55	17.5	12.6	2.9	2	-29.3	-32.2	6.8
2428.60	18.6	12.6	4	2	-28.2	-32.2	6.5
2428.65	18.5	12.6	3.9	2	-28.3	-32.2	6.7
2428.70	18.4	12.6	3.8	2	-28.4	-32.2	7.5
2428.75	18.4	12.6	3.8	2	-28.4	-32.2	7.2
2428.80	18.4	12.6	3.8	2	-28.4	-32.2	7.4
2428.85	18.5	12.6	3.9	2	-28.3	-32.2	7.6
2428.90	18.3	12.6	3.7	2	-28.5	-32.2	7.5
2428.95	18.3	12.6	3.7	2	-28.5	-32.2	6.5
2429.00	18.2	12.6	3.6	2	-28.6	-32.2	6.3
2429.05	18.1	12.6	3.5	2	-28.7	-32.2	5.9
2429.10	17.9	12.6	3.3	2	-28.9	-32.2	6.5
2429.15	17.7	12.6	3.1	2	-29.1	-32.2	6
2429.20	17.6	12.6	3	2	-29.2	-32.2	5.7
2429.25	17.5	12.6	2.9	2	-29.3	-32.2	5.8
2429.30	17.4	12.6	2.8	2	-29.4	-32.2	6.8
2429.35	17.33	12.6	2.73	2	-29.47	-32.2	6.2
2429.40	17.3	12.6	2.7	2	-29.5	-32.2	7
2429.45	17.2	12.6	2.6	2	-29.6	-32.2	6.4
2429.50	17	12.6	2.4	2	-29.8	-32.2	7.3
2429.55	16.9	12.6	2.3	2	-29.9	-32.2	5.8
2429.60	16.8	12.6	2.2	2	-30	-32.2	5.1
2429.65	16.7	12.6	2.1	2	-30.1	-32.2	6.3
2429.70	16.6	12.6	2	2	-30.2	-32.2	6.9
2429.75	16.6	12.6	2	2	-30.2	-32.2	7
2429.80	16.5	12.6	1.9	2	-30.3	-32.2	5.4
2429.85	16.5	12.6	1.9	2	-30.3	-32.2	7.1
2429.90	16.6	12.6	2	2	-30.2	-32.2	7.6
2429.95	16.5	12.6	1.9	2	-30.3	-32.2	6.8
2430.00	16.6	12.6	2	2	-30.2	-32.2	6.8
2430.05	16.6	12.6	2	2	-30.2	-32.2	6.2

2430.10	16.6	12.6	2	2	-30.2	-32.2	5.6
2430.15	16.7	12.6	2.1	2	-30.1	-32.2	6.3
2430.20	16.8	12.6	2.2	2	-30	-32.2	6.7
2430.25	16.6	12.6	2	2	-30.2	-32.2	4.8
2430.30	16.6	12.6	2	2	-30.2	-32.2	5.6
2430.35	16.5	12.6	1.9	2	-30.3	-32.2	5.1
2430.40	16.4	12.6	1.8	2	-30.4	-32.2	7
2430.45	16.3	12.6	1.7	2	-30.5	-32.2	5.3
2430.50	16.2	12.6	1.6	2	-30.6	-32.2	6.7
2430.55	15.8	12.6	1.2	2	-31	-32.2	7.3
2430.60	15.6	12.6	1	2	-31.2	-32.2	5.7
2430.65	15.6	12.6	1	2	-31.2	-32.2	6.4
2430.70	15.5	12.6	0.9	2	-31.3	-32.2	5.9
2430.75	15.4	12.6	0.8	2	-31.4	-32.2	5.7
2430.80	15.3	12.6	0.7	2	-31.5	-32.2	5.6
2430.85	15.1	12.6	0.5	2	-31.7	-32.2	5.7
2430.90	15.1	12.6	0.5	2	-31.7	-32.2	5.6
2430.95	15.3	12.6	0.7	2	-31.5	-32.2	6
2431.00	15.6	12.6	1	2	-31.2	-32.2	7.6
2431.05	15.7	12.6	1.1	2	-31.1	-32.2	6.4
2431.10	15.7	12.6	1.1	2	-31.1	-32.2	5.3
2431.15	15.9	12.6	1.3	2	-30.9	-32.2	5.9
2431.20	16.6	12.6	2	2	-30.2	-32.2	6.1
2431.25	16.5	12.6	1.9	2	-30.3	-32.2	6.3
2431.30	16.3	12.6	1.7	2	-30.5	-32.2	5.7
2431.35	16.2	12.6	1.6	2	-30.6	-32.2	6.4
2431.40	16	12.6	1.4	2	-30.8	-32.2	7.2
2431.45	15.8	12.6	1.2	2	-31	-32.2	7.3
2431.50	15.6	12.6	1	2	-31.2	-32.2	6.2
2431.55	15.8	12.6	1.2	2	-31	-32.2	6.3
2431.60	15.8	12.6	1.2	2	-31	-32.2	6.5
2431.65	15.4	12.6	0.8	2	-31.4	-32.2	6.7
2431.70	15.2	12.6	0.6	2	-31.6	-32.2	6.8
2431.75	15.4	12.6	0.8	2	-31.4	-32.2	7.1
2431.80	15.2	12.6	0.6	2	-31.6	-32.2	5.8
2431.85	15	12.6	0.4	2	-31.8	-32.2	5.9

2431.90	14.8	12.6	0.2	2	-32	-32.2	5.6
2431.95	15	12.6	0.4	2	-31.8	-32.2	6.2
2432.00	14.8	12.6	0.2	2	-32	-32.2	6.3
2432.05	14.6	12.6	0	2	-32.2	-32.2	6
2432.10	14.3	12.6	-0.3	2	-32.5	-32.2	7.5
2432.15	14.2	12.6	-0.4	2	-32.6	-32.2	6.8
2432.20	14.1	12.6	-0.5	2	-32.7	-32.2	7.4
2432.25	14.2	12.6	-0.4	2	-32.6	-32.2	7.1
2432.30	14.3	12.6	-0.3	2	-32.5	-32.2	7.7
2432.35	14.4	12.6	-0.2	2	-32.4	-32.2	7.3
2432.40	14.4	12.6	-0.2	2	-32.4	-32.2	6
2432.45	14.6	12.6	0	2	-32.2	-32.2	5.4
2432.50	14.7	12.6	0.1	2	-32.1	-32.2	6.1
2432.55	14.6	12.6	0	2	-32.2	-32.2	7.1
2432.60	14.4	12.6	-0.2	2	-32.4	-32.2	5.7
2432.65	15	12.6	0.4	2	-31.8	-32.2	6.1
2432.70	14.8	12.6	0.2	2	-32	-32.2	5.6
2432.75	14.9	12.6	0.3	2	-31.9	-32.2	6.3
2432.80	14.8	12.6	0.2	2	-32	-32.2	5.7
2432.85	14.8	12.6	0.2	2	-32	-32.2	5.8
2432.90	14.7	12.6	0.1	2	-32.1	-32.2	7.3
2432.95	14.4	12.6	-0.2	2	-32.4	-32.2	5.9
2433.00	14	12.6	-0.6	2	-32.8	-32.2	7.4
2433.05	13.9	12.6	-0.7	2	-32.9	-32.2	6.3
2433.10	13.7	12.6	-0.9	2	-33.1	-32.2	5.7
2433.15	13.5	12.6	-1.1	2	-33.3	-32.2	6.8
2433.20	13.5	12.6	-1.1	2	-33.3	-32.2	6.3
2433.25	13.6	12.6	-1	2	-33.2	-32.2	6.2
2433.30	13.7	12.6	-0.9	2	-33.1	-32.2	5.2
2433.35	13.7	12.6	-0.9	2	-33.1	-32.2	5.8
2433.40	13.8	12.6	-0.8	2	-33	-32.2	4.5
2433.45	13.7	12.6	-0.9	2	-33.1	-32.2	6.2
2433.50	13.8	12.6	-0.8	2	-33	-32.2	5.6
2433.55	13.9	12.6	-0.7	2	-32.9	-32.2	5.7
2433.60	14	12.6	-0.6	2	-32.8	-32.2	5.4
2433.65	13.9	12.6	-0.7	2	-32.9	-32.2	6

2433.70	13.8	12.6	-0.8	2	-33	-32.2	5.6
2433.75	13.7	12.6	-0.9	2	-33.1	-32.2	6.3
2433.80	13.6	12.6	-1	2	-33.2	-32.2	6.3
2433.85	13.5	12.6	-1.1	2	-33.3	-32.2	6.4
2433.90	13.4	12.6	-1.2	2	-33.4	-32.2	5.5
2433.95	13.3	12.6	-1.3	2	-33.5	-32.2	5.8
2434.00	13.2	12.6	-1.4	2	-33.6	-32.2	5.6
2434.05	14.2	12.6	-0.4	2	-32.6	-32.2	5.7
2434.10	13	12.6	-1.6	2	-33.8	-32.2	5.7
2434.15	13	12.6	-1.6	2	-33.8	-32.2	5.9
2434.20	12.8	12.6	-1.8	2	-34	-32.2	5.6
2434.25	14.2	12.6	-0.4	2	-32.6	-32.2	6.1
2434.30	13.9	12.6	-0.7	2	-32.9	-32.2	6.4
2434.35	13.8	12.6	-0.8	2	-33	-32.2	6.3
2434.40	12.8	12.6	-1.8	2	-34	-32.2	5.6
2434.45	13	12.6	-1.6	2	-33.8	-32.2	6.4
2434.50	13	12.6	-1.6	2	-33.8	-32.2	6.6
2434.55	12.9	12.6	-1.7	2	-33.9	-32.2	4.9
2434.60	13	12.6	-1.6	2	-33.8	-32.2	5.7
2434.65	12.9	12.6	-1.7	2	-33.9	-32.2	4.8
2434.70	12.8	12.6	-1.8	2	-34	-32.2	6.2
2434.75	12.9	12.6	-1.7	2	-33.9	-32.2	5.1
2434.80	12.9	12.6	-1.7	2	-33.9	-32.2	6.3
2434.85	12.9	12.6	-1.7	2	-33.9	-32.2	5.8
2434.90	12.8	12.6	-1.8	2	-34	-32.2	6.1
2434.95	12.6	12.6	-2	2	-34.2	-32.2	5.7
2435.00	12.4	12.6	-2.2	2	-34.4	-32.2	6.8
2435.05	12.3	12.6	-2.3	2	-34.5	-32.2	6.1
2435.10	12	12.6	-2.6	2	-34.8	-32.2	6.4
2435.15	11.8	12.6	-2.8	2	-35	-32.2	6.3
2435.20	11.8	12.6	-2.8	2	-35	-32.2	5.6
2435.25	12	12.6	-2.6	2	-34.8	-32.2	6.4
2435.30	12	12.6	-2.6	2	-34.8	-32.2	5.3
2435.35	12.1	12.6	-2.5	2	-34.7	-32.2	5.7
2435.40	12.1	12.6	-2.5	2	-34.7	-32.2	5.7
2435.45	12.3	12.6	-2.3	2	-34.5	-32.2	5.8

2435.50	12.4	12.6	-2.2	2	-34.4	-32.2	7
2435.55	12.6	12.6	-2	2	-34.2	-32.2	6
2435.60	12.7	12.6	-1.9	2	-34.1	-32.2	6.4
2435.65	12.6	12.6	-2	2	-34.2	-32.2	6.3
2435.70	12.6	12.6	-2	2	-34.2	-32.2	6.7
2435.75	12.6	12.6	-2	2	-34.2	-32.2	6.5
2435.80	12.6	12.6	-2	2	-34.2	-32.2	7.3
2435.85	11.7	12.6	-2.9	2	-35.1	-32.2	5.7
2435.90	12.6	12.6	-2	2	-34.2	-32.2	6
2435.95	11.9	12.6	-2.7	2	-34.9	-32.2	7.1
2436.00	12.1	12.6	-2.5	2	-34.7	-32.2	6.7
2436.05	11.8	12.6	-2.8	2	-35	-32.2	7.4
2436.10	11.5	12.6	-3.1	2	-35.3	-32.2	6.9
2436.15	11.4	12.6	-3.2	2	-35.4	-32.2	6.8
2436.20	11.3	12.6	-3.3	2	-35.5	-32.2	5.2
2436.25	11.4	12.6	-3.2	2	-35.4	-32.2	5.6
2436.30	11.4	12.6	-3.2	2	-35.4	-32.2	5.4
2436.35	11.6	12.6	-3	2	-35.2	-32.2	6.1
2436.40	11.6	12.6	-3	2	-35.2	-32.2	5.2
2436.45	12	12.6	-2.6	2	-34.8	-32.2	6.3
2436.50	12.2	12.6	-2.4	2	-34.6	-32.2	5.2
2436.55	13.3	12.6	-1.3	2	-33.5	-32.2	5.7
2436.60	14.9	12.6	0.3	2	-31.9	-32.2	6.8
2436.65	14.8	12.6	0.2	2	-32	-32.2	5.3
2436.70	14.7	12.6	0.1	2	-32.1	-32.2	6.2
2436.75	15.4	12.6	0.8	2	-31.4	-32.2	6.1
2436.80	15.7	12.6	1.1	2	-31.1	-32.2	3.2
2436.85	16.6	12.6	2	2	-30.2	-32.2	4.2
2436.90	17.3	12.6	2.7	2	-29.5	-32.2	4.8
2436.95	17.5	12.6	2.9	2	-29.3	-32.2	5.5
2437.00	17.6	12.6	3	2	-29.2	-32.2	7.4
2437.05	17.5	12.6	2.9	2	-29.3	-32.2	5.2
2437.10	17.1	12.6	2.5	2	-29.7	-32.2	5.4
2437.15	16.9	12.6	2.3	2	-29.9	-32.2	5.3
2437.20	15.5	12.6	0.9	2	-31.3	-32.2	5.3
2437.25	15.2	12.6	0.6	2	-31.6	-32.2	6.2

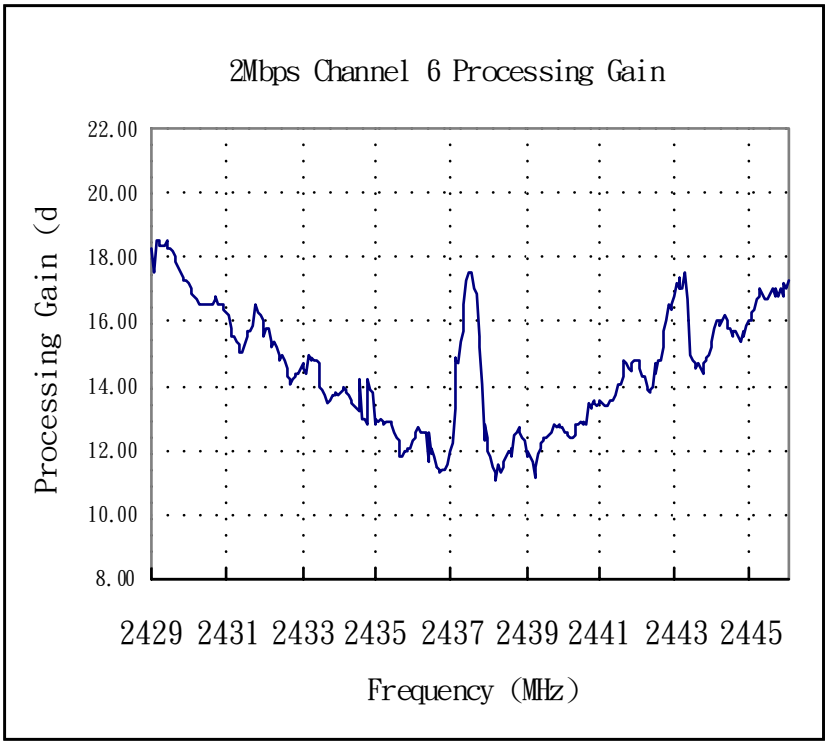
2437.30	14.1	12.6	-0.5	2	-32.7	-32.2	5.2
2437.35	12.3	12.6	-2.3	2	-34.5	-32.2	6.7
2437.40	12.8	12.6	-1.8	2	-34	-32.2	4.8
2437.45	12.4	12.6	-2.2	2	-34.4	-32.2	6.8
2437.50	12	12.6	-2.6	2	-34.8	-32.2	6.1
2437.55	11.8	12.6	-2.8	2	-35	-32.2	7.1
2437.60	11.5	12.6	-3.1	2	-35.3	-32.2	6.3
2437.65	11.3	12.6	-3.3	2	-35.5	-32.2	7.3
2437.70	11.1	12.6	-3.5	2	-35.7	-32.2	6.6
2437.75	11.6	12.6	-3	2	-35.2	-32.2	5.8
2437.80	11.3	12.6	-3.3	2	-35.5	-32.2	5.4
2437.85	11.5	12.6	-3.1	2	-35.3	-32.2	5.4
2437.90	11.7	12.6	-2.9	2	-35.1	-32.2	6.3
2437.95	11.8	12.6	-2.8	2	-35	-32.2	5.3
2438.00	12	12.6	-2.6	2	-34.8	-32.2	5.2
2438.05	11.9	12.6	-2.7	2	-34.9	-32.2	6.6
2438.10	12.1	12.6	-2.5	2	-34.7	-32.2	5.7
2438.15	11.8	12.6	-2.8	2	-35	-32.2	6
2438.20	12.5	12.6	-2.1	2	-34.3	-32.2	6
2438.25	12.6	12.6	-2	2	-34.2	-32.2	7.1
2438.30	12.7	12.6	-1.9	2	-34.1	-32.2	6.2
2438.35	12.6	12.6	-2	2	-34.2	-32.2	5.9
2438.40	12.4	12.6	-2.2	2	-34.4	-32.2	5.3
2438.45	12.3	12.6	-2.3	2	-34.5	-32.2	6.1
2438.50	11.8	12.6	-2.8	2	-35	-32.2	6.5
2438.55	12	12.6	-2.6	2	-34.8	-32.2	6.3
2438.60	11.8	12.6	-2.8	2	-35	-32.2	7
2438.65	11.7	12.6	-2.9	2	-35.1	-32.2	4.8
2438.70	11.2	12.6	-3.4	2	-35.6	-32.2	5.4
2438.75	11.5	12.6	-3.1	2	-35.3	-32.2	5.7
2438.80	11.9	12.6	-2.7	2	-34.9	-32.2	6.9
2438.85	12.1	12.6	-2.5	2	-34.7	-32.2	7
2438.90	12.2	12.6	-2.4	2	-34.6	-32.2	7
2438.95	12.3	12.6	-2.3	2	-34.5	-32.2	5.8
2439.00	12.4	12.6	-2.2	2	-34.4	-32.2	7.3
2439.05	12.4	12.6	-2.2	2	-34.4	-32.2	5.3

2439.10	12.5	12.6	-2.1	2	-34.3	-32.2	4.9
2439.15	12.6	12.6	-2	2	-34.2	-32.2	5.3
2439.20	12.6	12.6	-2	2	-34.2	-32.2	5.1
2439.25	12.8	12.6	-1.8	2	-34	-32.2	5.6
2439.30	12.7	12.6	-1.9	2	-34.1	-32.2	6.8
2439.35	12.8	12.6	-1.8	2	-34	-32.2	5.3
2439.40	12.7	12.6	-1.9	2	-34.1	-32.2	7.4
2439.45	12.7	12.6	-1.9	2	-34.1	-32.2	7.9
2439.50	12.6	12.6	-2	2	-34.2	-32.2	6.6
2439.55	12.6	12.6	-2	2	-34.2	-32.2	6.3
2439.60	12.5	12.6	-2.1	2	-34.3	-32.2	5.7
2439.65	12.5	12.6	-2.1	2	-34.3	-32.2	5.7
2439.70	12.4	12.6	-2.2	2	-34.4	-32.2	7.2
2439.75	12.4	12.6	-2.2	2	-34.4	-32.2	7.3
2439.80	12.5	12.6	-2.1	2	-34.3	-32.2	7
2439.85	12.8	12.6	-1.8	2	-34	-32.2	6.8
2439.90	12.8	12.6	-1.8	2	-34	-32.2	6.6
2439.95	12.9	12.6	-1.7	2	-33.9	-32.2	6.2
2440.00	12.8	12.6	-1.8	2	-34	-32.2	5.6
2440.05	12.9	12.6	-1.7	2	-33.9	-32.2	5.8
2440.10	12.8	12.6	-1.8	2	-34	-32.2	6.7
2440.15	13.5	12.6	-1.1	2	-33.3	-32.2	6.3
2440.20	13.3	12.6	-1.3	2	-33.5	-32.2	6.3
2440.25	13.4	12.6	-1.2	2	-33.4	-32.2	5.9
2440.30	13.6	12.6	-1	2	-33.2	-32.2	5.4
2440.35	13.5	12.6	-1.1	2	-33.3	-32.2	5.3
2440.40	13.4	12.6	-1.2	2	-33.4	-32.2	7.3
2440.45	13.5	12.6	-1.1	2	-33.3	-32.2	5.7
2440.50	13.6	12.6	-1	2	-33.2	-32.2	5.9
2440.55	13.5	12.6	-1.1	2	-33.3	-32.2	6.1
2440.60	13.4	12.6	-1.2	2	-33.4	-32.2	6.3
2440.65	13.4	12.6	-1.2	2	-33.4	-32.2	5.8
2440.70	13.4	12.6	-1.2	2	-33.4	-32.2	5.4
2440.75	13.6	12.6	-1	2	-33.2	-32.2	5.6
2440.80	13.6	12.6	-1	2	-33.2	-32.2	5
2440.85	13.7	12.6	-0.9	2	-33.1	-32.2	7.3

2440.90	13.7	12.6	-0.9	2	-33.1	-32.2	6.3
2440.95	14.1	12.6	-0.5	2	-32.7	-32.2	5.8
2441.00	14.1	12.6	-0.5	2	-32.7	-32.2	7.2
2441.05	14.3	12.6	-0.3	2	-32.5	-32.2	5.9
2441.10	14.3	12.6	-0.3	2	-32.5	-32.2	6
2441.15	14.8	12.6	0.2	2	-32	-32.2	5.8
2441.20	14.7	12.6	0.1	2	-32.1	-32.2	6.2
2441.25	14.6	12.6	0	2	-32.2	-32.2	6.1
2441.30	14.5	12.6	-0.1	2	-32.3	-32.2	5.2
2441.35	14.7	12.6	0.1	2	-32.1	-32.2	5.3
2441.40	14.8	12.6	0.2	2	-32	-32.2	7.3
2441.45	14.8	12.6	0.2	2	-32	-32.2	7.1
2441.50	14.8	12.6	0.2	2	-32	-32.2	6.6
2441.55	14.6	12.6	0	2	-32.2	-32.2	6.8
2441.60	14.3	12.6	-0.3	2	-32.5	-32.2	6.7
2441.65	14.3	12.6	-0.3	2	-32.5	-32.2	4.9
2441.70	14	12.6	-0.6	2	-32.8	-32.2	6.3
2441.75	13.9	12.6	-0.7	2	-32.9	-32.2	5.1
2441.80	13.8	12.6	-0.8	2	-33	-32.2	6.4
2441.85	13.9	12.6	-0.7	2	-32.9	-32.2	5.3
2441.90	14	12.6	-0.6	2	-32.8	-32.2	5.8
2441.95	14.7	12.6	0.1	2	-32.1	-32.2	5.7
2442.00	14.4	12.6	-0.2	2	-32.4	-32.2	5.3
2442.05	14.8	12.6	0.2	2	-32	-32.2	5.1
2442.10	14.8	12.6	0.2	2	-32	-32.2	6.1
2442.15	15.2	12.6	0.6	2	-31.6	-32.2	5.8
2442.20	15.7	12.6	1.1	2	-31.1	-32.2	4.9
2442.25	16	12.6	1.4	2	-30.8	-32.2	5.7
2442.30	16.6	12.6	2	2	-30.2	-32.2	5.8
2442.35	16.4	12.6	1.8	2	-30.4	-32.2	5.9
2442.40	16.52	12.6	1.92	2	-30.28	-32.2	6.1
2442.45	16.8	12.6	2.2	2	-30	-32.2	7.1
2442.50	17.2	12.6	2.6	2	-29.6	-32.2	4.8
2442.55	17.1	12.6	2.5	2	-29.7	-32.2	7.3
2442.60	17.4	12.6	2.8	2	-29.4	-32.2	4.7
2442.65	17	12.6	2.4	2	-29.8	-32.2	7.4

2442.70	17.1	12.6	2.5	2	-29.7	-32.2	5.2
2442.75	17.5	12.6	2.9	2	-29.3	-32.2	5.6
2442.80	16.7	12.6	2.1	2	-30.1	-32.2	4.8
2442.85	16.7	12.6	2.1	2	-30.1	-32.2	6.3
2442.90	15	12.6	0.4	2	-31.8	-32.2	6.4
2442.95	14.8	12.6	0.2	2	-32	-32.2	6.3
2443.00	14.7	12.6	0.1	2	-32.1	-32.2	4.9
2443.05	14.6	12.6	0	2	-32.2	-32.2	5.7
2443.10	14.7	12.6	0.1	2	-32.1	-32.2	5.7
2443.15	14.6	12.6	0	2	-32.2	-32.2	6.1
2443.20	14.4	12.6	-0.2	2	-32.4	-32.2	6.8
2443.25	14.7	12.6	0.1	2	-32.1	-32.2	6.3
2443.30	14.8	12.6	0.2	2	-32	-32.2	6.9
2443.35	14.9	12.6	0.3	2	-31.9	-32.2	5.7
2443.40	15	12.6	0.4	2	-31.8	-32.2	5.6
2443.45	15.2	12.6	0.6	2	-31.6	-32.2	6.2
2443.50	15.4	12.6	0.8	2	-31.4	-32.2	6.1
2443.55	15.8	12.6	1.2	2	-31	-32.2	6.3
2443.60	16	12.6	1.4	2	-30.8	-32.2	5.8
2443.65	16	12.6	1.4	2	-30.8	-32.2	7.1
2443.70	15.9	12.6	1.3	2	-30.9	-32.2	4.8
2443.75	16.1	12.6	1.5	2	-30.7	-32.2	6.8
2443.80	16.2	12.6	1.6	2	-30.6	-32.2	6.6
2443.85	16.1	12.6	1.5	2	-30.7	-32.2	6.3
2443.90	15.8	12.6	1.2	2	-31	-32.2	5.1
2443.95	15.8	12.6	1.2	2	-31	-32.2	5.7
2444.00	15.5	12.6	0.9	2	-31.3	-32.2	4.8
2444.05	15.7	12.6	1.1	2	-31.1	-32.2	6.5
2444.10	15.7	12.6	1.1	2	-31.1	-32.2	5.3
2444.15	15.7	12.6	1.1	2	-31.1	-32.2	5.8
2444.20	15.6	12.6	1	2	-31.2	-32.2	5.7
2444.25	15.4	12.6	0.8	2	-31.4	-32.2	6.2
2444.30	15.7	12.6	1.1	2	-31.1	-32.2	6.1
2444.35	15.6	12.6	1	2	-31.2	-32.2	6.3
2444.40	15.9	12.6	1.3	2	-30.9	-32.2	5.8
2444.45	16	12.6	1.4	2	-30.8	-32.2	6.5

2444.50	16.1	12.6	1.5	2	-30.7	-32.2	6.2
2444.55	16.3	12.6	1.7	2	-30.5	-32.2	5.8
2444.60	16.4	12.6	1.8	2	-30.4	-32.2	5.8
2444.65	16.7	12.6	2.1	2	-30.1	-32.2	5.9
2444.70	16.8	12.6	2.2	2	-30	-32.2	6.1
2444.75	16.9	12.6	2.3	2	-29.9	-32.2	7.2
2444.80	17	12.6	2.4	2	-29.8	-32.2	7.5
2444.85	16.9	12.6	2.3	2	-29.9	-32.2	7.3
2444.90	16.7	12.6	2.1	2	-30.1	-32.2	4.9
2444.95	16.7	12.6	2.1	2	-30.1	-32.2	5.9
2445.00	16.7	12.6	2.1	2	-30.1	-32.2	6.7
2445.05	16.9	12.6	2.3	2	-29.9	-32.2	6.3
2445.10	17	12.6	2.4	2	-29.8	-32.2	5.9
2445.15	16.8	12.6	2.2	2	-30	-32.2	5.8
2445.20	17	12.6	2.4	2	-29.8	-32.2	7.2
2445.25	16.8	12.6	2.2	2	-30	-32.2	6.2
2445.30	17	12.6	2.4	2	-29.8	-32.2	7.1
2445.35	16.8	12.6	2.2	2	-30	-32.2	6.3
2445.40	17.2	12.6	2.6	2	-29.6	-32.2	6.2
2445.45	17.1	12.6	2.5	2	-29.7	-32.2	5.8
2445.50	17.3	12.6	2.7	2	-29.5	-32.2	6.7
Processing Gain (dB) @20th Percentile=				12.6			


2Mbps Channel 6 Processing Gain
Processing Gain (d
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
2429 2431 2433 2435 2437 2439 2441 2443 2445
Frequency (MHz)

2Mbps Channel 11 Processing Gain							
Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2453.50	15.2	12.6	0.6	2	-31.4	-32	6.8
2453.55	16.9	12.6	2.3	2	-29.7	-32	6.7
2453.60	16.9	12.6	2.3	2	-29.7	-32	7.3
2453.65	16.6	12.6	2	2	-30	-32	6.8
2453.70	16.7	12.6	2.1	2	-29.9	-32	7.1
2453.75	16.6	12.6	2	2	-30	-32	6.5
2453.80	16.8	12.6	2.2	2	-29.8	-32	7.3
2453.85	16.9	12.6	2.3	2	-29.7	-32	5.7
2453.90	16.9	12.6	2.3	2	-29.7	-32	7.4
2453.95	17	12.6	2.4	2	-29.6	-32	6.1
2454.00	16.6	12.6	2	2	-30	-32	6.3
2454.05	15.9	12.6	1.3	2	-30.7	-32	6.5
2454.10	16.2	12.6	1.6	2	-30.4	-32	5.8
2454.15	15.9	12.6	1.3	2	-30.7	-32	7.1
2454.20	15.7	12.6	1.1	2	-30.9	-32	6.1
2454.25	15.8	12.6	1.2	2	-30.8	-32	6.3
2454.30	15.8	12.6	1.2	2	-30.8	-32	5.8
2454.35	15.7	12.6	1.1	2	-30.9	-32	7.2
2454.40	15.7	12.6	1.1	2	-30.9	-32	7.3
2454.45	15.6	12.6	1	2	-31	-32	5.9
2454.50	15.5	12.6	0.9	2	-31.1	-32	4.8
2454.55	15.6	12.6	1	2	-31	-32	7.1
2454.60	15.6	12.6	1	2	-31	-32	7.3
2454.65	15.6	12.6	1	2	-31	-32	5.7
2454.70	15.4	12.6	0.8	2	-31.2	-32	5.8
2454.75	15.3	12.6	0.7	2	-31.3	-32	5.2
2454.80	15.2	12.6	0.6	2	-31.4	-32	6.1
2454.85	15.2	12.6	0.6	2	-31.4	-32	6.3
2454.90	15.1	12.6	0.5	2	-31.5	-32	6.4
2454.95	15	12.6	0.4	2	-31.6	-32	7.1
2455.00	15.1	12.6	0.5	2	-31.5	-32	5.8
2455.05	15	12.6	0.4	2	-31.6	-32	6.3

2455.10	15.1	12.6	0.5	2	-31.5	-32	6.5
2455.15	15.1	12.6	0.5	2	-31.5	-32	7.3
2455.20	15.1	12.6	0.5	2	-31.5	-32	5.9
2455.25	15	12.6	0.4	2	-31.6	-32	5.8
2455.30	15	12.6	0.4	2	-31.6	-32	6.3
2455.35	14.9	12.6	0.3	2	-31.7	-32	6.4
2455.40	14.8	12.6	0.2	2	-31.8	-32	6.6
2455.45	14.7	12.6	0.1	2	-31.9	-32	6.3
2455.50	14.6	12.6	0	2	-32	-32	7.3
2455.55	14.5	12.6	-0.1	2	-32.1	-32	7.3
2455.60	14.4	12.6	-0.2	2	-32.2	-32	7.8
2455.65	14.2	12.6	-0.4	2	-32.4	-32	5.1
2455.70	14	12.6	-0.6	2	-32.6	-32	7.3
2455.75	13.9	12.6	-0.7	2	-32.7	-32	5.8
2455.80	13.8	12.6	-0.8	2	-32.8	-32	7.3
2455.85	13.2	12.6	-1.4	2	-33.4	-32	7.1
2455.90	14	12.6	-0.6	2	-32.6	-32	6.3
2455.95	14.1	12.6	-0.5	2	-32.5	-32	6.5
2456.00	14.1	12.6	-0.5	2	-32.5	-32	6.7
2456.05	14.3	12.6	-0.3	2	-32.3	-32	7.3
2456.10	14.5	12.6	-0.1	2	-32.1	-32	5.8
2456.15	15	12.6	0.4	2	-31.6	-32	5.9
2456.20	15.6	12.6	1	2	-31	-32	6.1
2456.25	15.8	12.6	1.2	2	-30.8	-32	6.3
2456.30	16.2	12.6	1.6	2	-30.4	-32	6.5
2456.35	16.1	12.6	1.5	2	-30.5	-32	7
2456.40	15.8	12.6	1.2	2	-30.8	-32	7.3
2456.45	15.6	12.6	1	2	-31	-32	5.8
2456.50	15.4	12.6	0.8	2	-31.2	-32	5.9
2456.55	15.2	12.6	0.6	2	-31.4	-32	6.1
2456.60	15.1	12.6	0.5	2	-31.5	-32	5.3
2456.65	15	12.6	0.4	2	-31.6	-32	6
2456.70	15.1	12.6	0.5	2	-31.5	-32	5.3
2456.75	15	12.6	0.4	2	-31.6	-32	4.7
2456.80	14.7	12.6	0.1	2	-31.9	-32	4.9
2456.85	14.5	12.6	-0.1	2	-32.1	-32	7.3

2456.90	14.3	12.6	-0.3	2	-32.3	-32	7.8
2456.95	14.1	12.6	-0.5	2	-32.5	-32	7.2
2457.00	13.5	12.6	-1.1	2	-33.1	-32	6.3
2457.05	13.4	12.6	-1.2	2	-33.2	-32	7.1
2457.10	13.1	12.6	-1.5	2	-33.5	-32	7.3
2457.15	13.3	12.6	-1.3	2	-33.3	-32	5.1
2457.20	12.7	12.6	-1.9	2	-33.9	-32	7.1
2457.25	12.5	12.6	-2.1	2	-34.1	-32	5.9
2457.30	12.8	12.6	-1.8	2	-33.8	-32	6.1
2457.35	13	12.6	-1.6	2	-33.6	-32	6.5
2457.40	13.1	12.6	-1.5	2	-33.5	-32	6
2457.45	13.3	12.6	-1.3	2	-33.3	-32	7.1
2457.50	13.4	12.6	-1.2	2	-33.2	-32	9.1
2457.55	13.1	12.6	-1.5	2	-33.5	-32	9.5
2457.60	12.9	12.6	-1.7	2	-33.7	-32	7.3
2457.65	12.9	12.6	-1.7	2	-33.7	-32	5.7
2457.70	12.9	12.6	-1.7	2	-33.7	-32	7.2
2457.75	14.6	12.6	0	2	-32	-32	7.3
2457.80	13.9	12.6	-0.7	2	-32.7	-32	4.8
2457.85	13.8	12.6	-0.8	2	-32.8	-32	5.3
2457.90	14.4	12.6	-0.2	2	-32.2	-32	5.7
2457.95	14.5	12.6	-0.1	2	-32.1	-32	6.3
2458.00	13.5	12.6	-1.1	2	-33.1	-32	6.1
2458.05	13.4	12.6	-1.2	2	-33.2	-32	6.4
2458.10	13.2	12.6	-1.4	2	-33.4	-32	6.5
2458.15	13	12.6	-1.6	2	-33.6	-32	7.1
2458.20	12.8	12.6	-1.8	2	-33.8	-32	7.2
2458.25	12.9	12.6	-1.7	2	-33.7	-32	5.8
2458.30	13	12.6	-1.6	2	-33.6	-32	6
2458.35	13.1	12.6	-1.5	2	-33.5	-32	6.3
2458.40	13.2	12.6	-1.4	2	-33.4	-32	6.2
2458.45	13.3	12.6	-1.3	2	-33.3	-32	5.9
2458.50	13.5	12.6	-1.1	2	-33.1	-32	5.8
2458.55	13.8	12.6	-0.8	2	-32.8	-32	6.1
2458.60	14	12.6	-0.6	2	-32.6	-32	5.1
2458.65	13.9	12.6	-0.7	2	-32.7	-32	5.7

2458.70	13.9	12.6	-0.7	2	-32.7	-32	5.6
2458.75	13.4	12.6	-1.2	2	-33.2	-32	5.7
2458.80	13.8	12.6	-0.8	2	-32.8	-32	6.3
2458.85	13.7	12.6	-0.9	2	-32.9	-32	6.4
2458.90	13.6	12.6	-1	2	-33	-32	6.5
2458.95	13.5	12.6	-1.1	2	-33.1	-32	6.9
2459.00	12.7	12.6	-1.9	2	-33.9	-32	6.1
2459.05	12.4	12.6	-2.2	2	-34.2	-32	5.8
2459.10	12.3	12.6	-2.3	2	-34.3	-32	5.1
2459.15	11.8	12.6	-2.8	2	-34.8	-32	5.3
2459.20	12	12.6	-2.6	2	-34.6	-32	5.7
2459.25	12	12.6	-2.6	2	-34.6	-32	6.1
2459.30	11.9	12.6	-2.7	2	-34.7	-32	6.3
2459.35	12	12.6	-2.6	2	-34.6	-32	6.4
2459.40	11.9	12.6	-2.7	2	-34.7	-32	7.4
2459.45	11.9	12.6	-2.7	2	-34.7	-32	4.8
2459.50	12	12.6	-2.6	2	-34.6	-32	5.9
2459.55	12.1	12.6	-2.5	2	-34.5	-32	5.7
2459.60	12.2	12.6	-2.4	2	-34.4	-32	5.9
2459.65	12.1	12.6	-2.5	2	-34.5	-32	6.6
2459.70	12	12.6	-2.6	2	-34.6	-32	6.1
2459.75	12	12.6	-2.6	2	-34.6	-32	4.8
2459.80	12	12.6	-2.6	2	-34.6	-32	4.9
2459.85	12.2	12.6	-2.4	2	-34.4	-32	5.3
2459.90	12	12.6	-2.6	2	-34.6	-32	7.3
2459.95	12.2	12.6	-2.4	2	-34.4	-32	7.5
2460.00	11.6	12.6	-3	2	-35	-32	6.8
2460.05	11.4	12.6	-3.2	2	-35.2	-32	6.1
2460.10	11.3	12.6	-3.3	2	-35.3	-32	6.3
2460.15	11.2	12.6	-3.4	2	-35.4	-32	6.1
2460.20	11	12.6	-3.6	2	-35.6	-32	6.3
2460.25	11.1	12.6	-3.5	2	-35.5	-32	6.4
2460.30	11	12.6	-3.6	2	-35.6	-32	6.5
2460.35	11.1	12.6	-3.5	2	-35.5	-32	6.7
2460.40	11.2	12.6	-3.4	2	-35.4	-32	6.6
2460.45	11.1	12.6	-3.5	2	-35.5	-32	6.3

2460.50	11.5	12.6	-3.1	2	-35.1	-32	6.5
2460.55	11.6	12.6	-3	2	-35	-32	7.1
2460.60	11.7	12.6	-2.9	2	-34.9	-32	7.3
2460.65	11.6	12.6	-3	2	-35	-32	7.4
2460.70	11.7	12.6	-2.9	2	-34.9	-32	5.8
2460.75	11.8	12.6	-2.8	2	-34.8	-32	5.9
2460.80	11.8	12.6	-2.8	2	-34.8	-32	7
2460.85	11.8	12.6	-2.8	2	-34.8	-32	7.1
2460.90	11.7	12.6	-2.9	2	-34.9	-32	6.2
2460.95	11.5	12.6	-3.1	2	-35.1	-32	6.8
2461.00	11.1	12.6	-3.5	2	-35.5	-32	6.6
2461.05	10.9	12.6	-3.7	2	-35.7	-32	6.4
2461.10	10.7	12.6	-3.9	2	-35.9	-32	5.8
2461.15	10.4	12.6	-4.2	2	-36.2	-32	5.9
2461.20	10.3	12.6	-4.3	2	-36.3	-32	6.1
2461.25	10.3	12.6	-4.3	2	-36.3	-32	6.2
2461.30	10.4	12.6	-4.2	2	-36.2	-32	5.8
2461.35	10.6	12.6	-4	2	-36	-32	6.3
2461.40	10.8	12.6	-3.8	2	-35.8	-32	5.7
2461.45	11	12.6	-3.6	2	-35.6	-32	7.3
2461.50	11.6	12.6	-3	2	-35	-32	7.5
2461.55	11.8	12.6	-2.8	2	-34.8	-32	5.8
2461.60	12.5	12.6	-2.1	2	-34.1	-32	6.1
2461.65	13	12.6	-1.6	2	-33.6	-32	6.3
2461.70	14.2	12.6	-0.4	2	-32.4	-32	5.8
2461.75	14.6	12.6	0	2	-32	-32	7.1
2461.80	15.6	12.6	1	2	-31	-32	7.3
2461.85	16.2	12.6	1.6	2	-30.4	-32	6.5
2461.90	16.7	12.6	2.1	2	-29.9	-32	6.7
2461.95	17.3	12.6	2.7	2	-29.3	-32	6.3
2462.00	17.5	12.6	2.9	2	-29.1	-32	7.1
2462.05	16.8	12.6	2.2	2	-29.8	-32	7.4
2462.10	16.6	12.6	2	2	-30	-32	5.8
2462.15	15.6	12.6	1	2	-31	-32	7
2462.20	15	12.6	0.4	2	-31.6	-32	7.3
2462.25	14.7	12.6	0.1	2	-31.9	-32	4.9

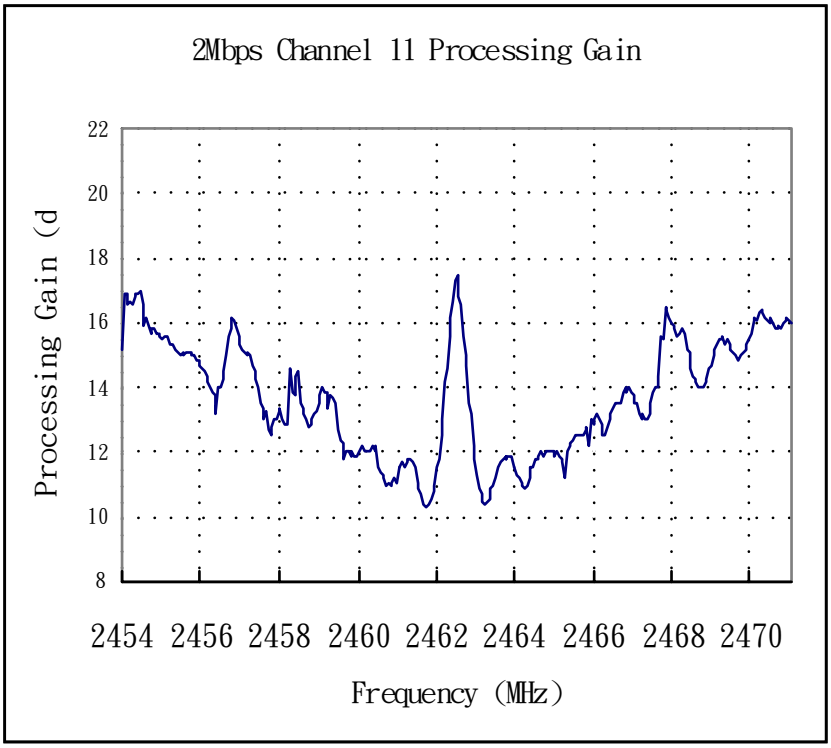
2462.30	13.5	12.6	-1.1	2	-33.1	-32	5.7
2462.35	13.2	12.6	-1.4	2	-33.4	-32	6.1
2462.40	12.2	12.6	-2.4	2	-34.4	-32	6.2
2462.45	11.8	12.6	-2.8	2	-34.8	-32	6.8
2462.50	11.3	12.6	-3.3	2	-35.3	-32	6.3
2462.55	10.9	12.6	-3.7	2	-35.7	-32	6.4
2462.60	10.7	12.6	-3.9	2	-35.9	-32	6.5
2462.65	10.5	12.6	-4.1	2	-36.1	-32	6.6
2462.70	10.4	12.6	-4.2	2	-36.2	-32	6.7
2462.75	10.5	12.6	-4.1	2	-36.1	-32	7.2
2462.80	10.6	12.6	-4	2	-36	-32	7.4
2462.85	10.9	12.6	-3.7	2	-35.7	-32	5.8
2462.90	11	12.6	-3.6	2	-35.6	-32	6.3
2462.95	11.2	12.6	-3.4	2	-35.4	-32	6.5
2463.00	11.5	12.6	-3.1	2	-35.1	-32	7.3
2463.05	11.6	12.6	-3	2	-35	-32	5.8
2463.10	11.7	12.6	-2.9	2	-34.9	-32	6.3
2463.15	11.8	12.6	-2.8	2	-34.8	-32	5.7
2463.20	11.9	12.6	-2.7	2	-34.7	-32	5.4
2463.25	11.8	12.6	-2.8	2	-34.8	-32	5.3
2463.30	11.9	12.6	-2.7	2	-34.7	-32	6.2
2463.35	11.9	12.6	-2.7	2	-34.7	-32	6.3
2463.40	11.9	12.6	-2.7	2	-34.7	-32	6.1
2463.45	11.6	12.6	-3	2	-35	-32	5.9
2463.50	11.5	12.6	-3.1	2	-35.1	-32	6.2
2463.55	11.3	12.6	-3.3	2	-35.3	-32	6.7
2463.60	11.2	12.6	-3.4	2	-35.4	-32	6.3
2463.65	11.1	12.6	-3.5	2	-35.5	-32	5.7
2463.70	11	12.6	-3.6	2	-35.6	-32	7.8
2463.75	10.9	12.6	-3.7	2	-35.7	-32	6.3
2463.80	11	12.6	-3.6	2	-35.6	-32	6.5
2463.85	11.2	12.6	-3.4	2	-35.4	-32	6.3
2463.90	11.5	12.6	-3.1	2	-35.1	-32	6
2463.95	11.6	12.6	-3	2	-35	-32	5.3
2464.00	11.8	12.6	-2.8	2	-34.8	-32	6.3
2464.05	11.8	12.6	-2.8	2	-34.8	-32	6.5

2464.10	11.9	12.6	-2.7	2	-34.7	-32	5.7
2464.15	12	12.6	-2.6	2	-34.6	-32	6
2464.20	11.9	12.6	-2.7	2	-34.7	-32	6.3
2464.25	12	12.6	-2.6	2	-34.6	-32	6.1
2464.30	12.1	12.6	-2.5	2	-34.5	-32	5.7
2464.35	12	12.6	-2.6	2	-34.6	-32	5.6
2464.40	12.1	12.6	-2.5	2	-34.5	-32	0.2
2464.45	12	12.6	-2.6	2	-34.6	-32	5.8
2464.50	11.9	12.6	-2.7	2	-34.7	-32	4.9
2464.55	12	12.6	-2.6	2	-34.6	-32	5.3
2464.60	11.9	12.6	-2.7	2	-34.7	-32	5.3
2464.65	11.8	12.6	-2.8	2	-34.8	-32	5.7
2464.70	11.7	12.6	-2.9	2	-34.9	-32	6.3
2464.75	11.2	12.6	-3.4	2	-35.4	-32	6.5
2464.80	12	12.6	-2.6	2	-34.6	-32	6.6
2464.85	12.2	12.6	-2.4	2	-34.4	-32	6.3
2464.90	12.3	12.6	-2.3	2	-34.3	-32	5.7
2464.95	12.4	12.6	-2.2	2	-34.2	-32	7.3
2465.00	12.5	12.6	-2.1	2	-34.1	-32	7.5
2465.05	12.6	12.6	-2	2	-34	-32	4.8
2465.10	12.6	12.6	-2	2	-34	-32	5.7
2465.15	12.5	12.6	-2.1	2	-34.1	-32	5.8
2465.20	12.6	12.6	-2	2	-34	-32	5.6
2465.25	12.7	12.6	-1.9	2	-33.9	-32	5.7
2465.30	12.8	12.6	-1.8	2	-33.8	-32	6.2
2465.35	12.2	12.6	-2.4	2	-34.4	-32	6.3
2465.40	13	12.6	-1.6	2	-33.6	-32	6.5
2465.45	12.9	12.6	-1.7	2	-33.7	-32	6.7
2465.50	13	12.6	-1.6	2	-33.6	-32	6.3
2465.55	13.2	12.6	-1.4	2	-33.4	-32	5.7
2465.60	13	12.6	-1.6	2	-33.6	-32	7.1
2465.65	12.9	12.6	-1.7	2	-33.7	-32	7.3
2465.70	12.7	12.6	-1.9	2	-33.9	-32	7.1
2465.75	12.5	12.6	-2.1	2	-34.1	-32	7.3
2465.80	12.6	12.6	-2	2	-34	-32	7.8
2465.85	12.8	12.6	-1.8	2	-33.8	-32	6.8

2465.90	13	12.6	-1.6	2	-33.6	-32	7.1
2465.95	13.2	12.6	-1.4	2	-33.4	-32	5.7
2466.00	13.4	12.6	-1.2	2	-33.2	-32	7.3
2466.05	13.5	12.6	-1.1	2	-33.1	-32	6.3
2466.10	13.6	12.6	-1	2	-33	-32	7.1
2466.15	13.5	12.6	-1.1	2	-33.1	-32	6.5
2466.20	13.6	12.6	-1	2	-33	-32	7.5
2466.25	13.9	12.6	-0.7	2	-32.7	-32	6.5
2466.30	14	12.6	-0.6	2	-32.6	-32	7.7
2466.35	13.9	12.6	-0.7	2	-32.7	-32	7.3
2466.40	14	12.6	-0.6	2	-32.6	-32	7.8
2466.45	13.9	12.6	-0.7	2	-32.7	-32	6.8
2466.50	13.8	12.6	-0.8	2	-32.8	-32	7.3
2466.55	13.6	12.6	-1	2	-33	-32	5.8
2466.60	13.5	12.6	-1.1	2	-33.1	-32	6.8
2466.65	13.2	12.6	-1.4	2	-33.4	-32	6.7
2466.70	13.1	12.6	-1.5	2	-33.5	-32	7.3
2466.75	13.2	12.6	-1.4	2	-33.4	-32	6.7
2466.80	13.1	12.6	-1.5	2	-33.5	-32	7.7
2466.85	13	12.6	-1.6	2	-33.6	-32	6.8
2466.90	13.2	12.6	-1.4	2	-33.4	-32	7.1
2466.95	13.6	12.6	-1	2	-33	-32	6.3
2467.00	13.9	12.6	-0.7	2	-32.7	-32	7.8
2467.05	14	12.6	-0.6	2	-32.6	-32	5.7
2467.10	14.1	12.6	-0.5	2	-32.5	-32	7.3
2467.15	14.4	12.6	-0.2	2	-32.2	-32	7.1
2467.20	15.6	12.6	1	2	-31	-32	7.5
2467.25	15.5	12.6	0.9	2	-31.1	-32	6.8
2467.30	16.5	12.6	1.9	2	-30.1	-32	7.1
2467.35	16.4	12.6	1.8	2	-30.2	-32	6.9
2467.40	16.2	12.6	1.6	2	-30.4	-32	7.1
2467.45	16	12.6	1.4	2	-30.6	-32	6.8
2467.50	15.9	12.6	1.3	2	-30.7	-32	5.7
2467.55	15.8	12.6	1.2	2	-30.8	-32	6.2
2467.60	15.6	12.6	1	2	-31	-32	6.5
2467.65	15.7	12.6	1.1	2	-30.9	-32	6.7

2467.70	15.8	12.6	1.2	2	-30.8	-32	7.3
2467.75	15.8	12.6	1.2	2	-30.8	-32	7.1
2467.80	15.7	12.6	1.1	2	-30.9	-32	7.7
2467.85	15.2	12.6	0.6	2	-31.4	-32	7.6
2467.90	15.1	12.6	0.5	2	-31.5	-32	7.1
2467.95	14.6	12.6	0	2	-32	-32	6.8
2468.00	14.4	12.6	-0.2	2	-32.2	-32	7.6
2468.05	14.3	12.6	-0.3	2	-32.3	-32	6.7
2468.10	14.2	12.6	-0.4	2	-32.4	-32	7.8
2468.15	14.1	12.6	-0.5	2	-32.5	-32	6.8
2468.20	14.1	12.6	-0.5	2	-32.5	-32	7.8
2468.25	14	12.6	-0.6	2	-32.6	-32	6.7
2468.30	14.1	12.6	-0.5	2	-32.5	-32	7.5
2468.35	14.2	12.6	-0.4	2	-32.4	-32	6.6
2468.40	14.3	12.6	-0.3	2	-32.3	-32	7.1
2468.45	14.6	12.6	0	2	-32	-32	6.7
2468.50	14.7	12.6	0.1	2	-31.9	-32	7.3
2468.55	15	12.6	0.4	2	-31.6	-32	6.6
2468.60	15.2	12.6	0.6	2	-31.4	-32	7.6
2468.65	15.3	12.6	0.7	2	-31.3	-32	6.4
2468.70	15.5	12.6	0.9	2	-31.1	-32	6.6
2468.75	15.5	12.6	0.9	2	-31.1	-32	6.3
2468.80	15.6	12.6	1	2	-31	-32	7.3
2468.85	15.4	12.6	0.8	2	-31.2	-32	6.5
2468.90	15.5	12.6	0.9	2	-31.1	-32	7.8
2468.95	15.3	12.6	0.7	2	-31.3	-32	6.6
2469.00	15.2	12.6	0.6	2	-31.4	-32	6.8
2469.05	15.1	12.6	0.5	2	-31.5	-32	6.7
2469.10	15	12.6	0.4	2	-31.6	-32	7.5
2469.15	14.9	12.6	0.3	2	-31.7	-32	5.7
2469.20	14.9	12.6	0.3	2	-31.7	-32	7.7
2469.25	15	12.6	0.4	2	-31.6	-32	6.3
2469.30	15.1	12.6	0.5	2	-31.5	-32	7.8
2469.35	15.2	12.6	0.6	2	-31.4	-32	6.7
2469.40	15.3	12.6	0.7	2	-31.3	-32	7.7
2469.45	15.5	12.6	0.9	2	-31.1	-32	6.3

2469.50	15.7	12.6	1.1	2	-30.9	-32	6.5
2469.55	16.1	12.6	1.5	2	-30.5	-32	6.1
2469.60	16.2	12.6	1.6	2	-30.4	-32	7.2
2469.65	16.1	12.6	1.5	2	-30.5	-32	7.3
2469.70	16.3	12.6	1.7	2	-30.3	-32	7.5
2469.75	16.4	12.6	1.8	2	-30.2	-32	6.8
2469.80	16.3	12.6	1.7	2	-30.3	-32	7.3
2469.85	16.2	12.6	1.6	2	-30.4	-32	6.2
2469.90	16.1	12.6	1.5	2	-30.5	-32	7.5
2469.95	16	12.6	1.4	2	-30.6	-32	6.8
2470.00	16.2	12.6	1.6	2	-30.4	-32	7.1
2470.05	16	12.6	1.4	2	-30.6	-32	5.7
2470.10	15.8	12.6	1.2	2	-30.8	-32	7.8
2470.15	15.8	12.6	1.2	2	-30.8	-32	6.8
2470.20	15.9	12.6	1.3	2	-30.7	-32	7.8
2470.25	15.8	12.6	1.2	2	-30.8	-32	7.1
2470.30	16	12.6	1.4	2	-30.6	-32	7.9
2470.35	16.1	12.6	1.5	2	-30.5	-32	7.3
2470.40	16.2	12.6	1.6	2	-30.4	-32	7.5
2470.45	16.1	12.6	1.5	2	-30.5	-32	6.8
2470.50	16	12.6	1.4	2	-30.6	-32	5.2
Processing Gain (dB) @20th Percentile=				11.9			


2Mbps Channel 11 Processing Gain
Processing Gain (d
22
20
18
16
14
12
10
8
2454 2456 2458 2460 2462 2464 2466 2468 2470
Frequency (MHz)

11Mbps Channel 1 Processing Gain							
Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2403.50	17.4	16.4	-1	2	-31	-30	6.1
2403.55	17.4	16.4	-1	2	-31	-30	6.3
2403.60	17.4	16.4	-1	2	-31	-30	7
2403.65	16.4	16.4	-2	2	-32	-30	6.3
2403.70	16.2	16.4	-2.2	2	-32.2	-30	4.5
2403.75	16.3	16.4	-2.1	2	-32.1	-30	4.9
2403.80	16	16.4	-2.4	2	-32.4	-30	7.4
2403.85	15.9	16.4	-2.5	2	-32.5	-30	6.5
2403.90	16.4	16.4	-2	2	-32	-30	7.9
2403.95	16.6	16.4	-1.8	2	-31.8	-30	6.5
2404.00	16.8	16.4	-1.6	2	-31.6	-30	7.1
2404.05	16.6	16.4	-1.8	2	-31.8	-30	6.8
2404.10	16.4	16.4	-2	2	-32	-30	7.2
2404.15	15.4	16.4	-3	2	-33	-30	7.6
2404.20	15.5	16.4	-2.9	2	-32.9	-30	7.1
2404.25	15.3	16.4	-3.1	2	-33.1	-30	7.8
2404.30	14.9	16.4	-3.5	2	-33.5	-30	7.8
2404.35	15	16.4	-3.4	2	-33.4	-30	6
2404.40	14.9	16.4	-3.5	2	-33.5	-30	7.5
2404.45	15.5	16.4	-2.9	2	-32.9	-30	6.8
2404.50	15.5	16.4	-2.9	2	-32.9	-30	7.2
2404.55	15.8	16.4	-2.6	2	-32.6	-30	7.5
2404.60	14.8	16.4	-3.6	2	-33.6	-30	7.9
2404.65	14.6	16.4	-3.8	2	-33.8	-30	7.9
2404.70	14.9	16.4	-3.5	2	-33.5	-30	7.7
2404.75	14.5	16.4	-3.9	2	-33.9	-30	7.9
2404.80	14.3	16.4	-4.1	2	-34.1	-30	7.3
2404.85	14.5	16.4	-3.9	2	-33.9	-30	7.3
2404.90	14.6	16.4	-3.8	2	-33.8	-30	7.3
2404.95	14.9	16.4	-3.5	2	-33.5	-30	7.7
2405.00	15.2	16.4	-3.2	2	-33.2	-30	7.4
2405.05	14.4	16.4	-4	2	-34	-30	7.4

2405.10	15.1	16.4	-3.3	2	-33.3	-30	7.5
2405.15	14.5	16.4	-3.9	2	-33.9	-30	7.8
2405.20	14.6	16.4	-3.8	2	-33.8	-30	7.4
2405.25	14.8	16.4	-3.6	2	-33.6	-30	7.6
2405.30	14.4	16.4	-4	2	-34	-30	7.9
2405.35	14.4	16.4	-4	2	-34	-30	7.5
2405.40	14.4	16.4	-4	2	-34	-30	7.7
2405.45	14.1	16.4	-4.3	2	-34.3	-30	7.6
2405.50	14.1	16.4	-4.3	2	-34.3	-30	7.6
2405.55	13.8	16.4	-4.6	2	-34.6	-30	7.9
2405.60	14.4	16.4	-4	2	-34	-30	7.8
2405.65	14.5	16.4	-3.9	2	-33.9	-30	7.7
2405.70	14.4	16.4	-4	2	-34	-30	7.6
2405.75	14.7	16.4	-3.7	2	-33.7	-30	7.9
2405.80	14.3	16.4	-4.1	2	-34.1	-30	7.6
2405.85	14.5	16.4	-3.9	2	-33.9	-30	7.7
2405.90	14.4	16.4	-4	2	-34	-30	7.7
2405.95	14.6	16.4	-3.8	2	-33.8	-30	7.8
2406.00	14.2	16.4	-4.2	2	-34.2	-30	7.9
2406.05	14.6	16.4	-3.8	2	-33.8	-30	7.9
2406.10	14.5	16.4	-3.9	2	-33.9	-30	7.6
2406.15	15.1	16.4	-3.3	2	-33.3	-30	7.8
2406.20	15	16.4	-3.4	2	-33.4	-30	7.7
2406.25	14.8	16.4	-3.6	2	-33.6	-30	7.7
2406.30	14.4	16.4	-4	2	-34	-30	7.9
2406.35	14.1	16.4	-4.3	2	-34.3	-30	7.9
2406.40	14.2	16.4	-4.2	2	-34.2	-30	7.9
2406.45	14	16.4	-4.4	2	-34.4	-30	7.5
2406.50	13.7	16.4	-4.7	2	-34.7	-30	7.9
2406.55	13.9	16.4	-4.5	2	-34.5	-30	7.5
2406.60	14.1	16.4	-4.3	2	-34.3	-30	7.3
2406.65	14.3	16.4	-4.1	2	-34.1	-30	7.6
2406.70	14.5	16.4	-3.9	2	-33.9	-30	7.9
2406.75	14.3	16.4	-4.1	2	-34.1	-30	7.4
2406.80	14.7	16.4	-3.7	2	-33.7	-30	7.5
2406.85	15	16.4	-3.4	2	-33.4	-30	7.9

2406.90	14.8	16.4	-3.6	2	-33.6	-30	7.7
2406.95	14.4	16.4	-4	2	-34	-30	7.5
2407.00	14	16.4	-4.4	2	-34.4	-30	7.7
2407.05	13.6	16.4	-4.8	2	-34.8	-30	7.7
2407.10	13.6	16.4	-4.8	2	-34.8	-30	7.5
2407.15	13.6	16.4	-4.8	2	-34.8	-30	7.9
2407.20	13.5	16.4	-4.9	2	-34.9	-30	7.9
2407.25	13.6	16.4	-4.8	2	-34.8	-30	7.8
2407.30	13.6	16.4	-4.8	2	-34.8	-30	7.5
2407.35	13.7	16.4	-4.7	2	-34.7	-30	7.5
2407.40	14	16.4	-4.4	2	-34.4	-30	7.9
2407.45	14	16.4	-4.4	2	-34.4	-30	7.7
2407.50	14.2	16.4	-4.2	2	-34.2	-30	7.9
2407.55	13.9	16.4	-4.5	2	-34.5	-30	7.8
2407.60	13.8	16.4	-4.6	2	-34.6	-30	7.9
2407.65	13.5	16.4	-4.9	2	-34.9	-30	7.9
2407.70	13.1	16.4	-5.3	2	-35.3	-30	7.7
2407.75	12.8	16.4	-5.6	2	-35.6	-30	7.8
2407.80	12.6	16.4	-5.8	2	-35.8	-30	7.9
2407.85	12.5	16.4	-5.9	2	-35.9	-30	7.5
2407.90	12.5	16.4	-5.9	2	-35.9	-30	7.6
2407.95	12.5	16.4	-5.9	2	-35.9	-30	7.3
2408.00	12.7	16.4	-5.7	2	-35.7	-30	7.6
2408.05	12.8	16.4	-5.6	2	-35.6	-30	7.9
2408.10	13	16.4	-5.4	2	-35.4	-30	7.4
2408.15	13	16.4	-5.4	2	-35.4	-30	7.6
2408.20	13.1	16.4	-5.3	2	-35.3	-30	7.6
2408.25	13.1	16.4	-5.3	2	-35.3	-30	7.9
2408.30	12.8	16.4	-5.6	2	-35.6	-30	7.5
2408.35	12.9	16.4	-5.5	2	-35.5	-30	7.7
2408.40	12.6	16.4	-5.8	2	-35.8	-30	7.5
2408.45	12.4	16.4	-6	2	-36	-30	7.5
2408.50	12.2	16.4	-6.2	2	-36.2	-30	7.9
2408.55	11.9	16.4	-6.5	2	-36.5	-30	7.7
2408.60	11.5	16.4	-6.9	2	-36.9	-30	7.5
2408.65	11.5	16.4	-6.9	2	-36.9	-30	7.6

2408.70	11.5	16.4	-6.9	2	-36.9	-30	7.5
2408.75	11.6	16.4	-6.8	2	-36.8	-30	7.7
2408.80	11.8	16.4	-6.6	2	-36.6	-30	7.7
2408.85	11.8	16.4	-6.6	2	-36.6	-30	7.8
2408.90	11.8	16.4	-6.6	2	-36.6	-30	7.6
2408.95	11.9	16.4	-6.5	2	-36.5	-30	7.7
2409.00	11.9	16.4	-6.5	2	-36.5	-30	7.5
2409.05	11.8	16.4	-6.6	2	-36.6	-30	7.9
2409.10	11.6	16.4	-6.8	2	-36.8	-30	7.5
2409.15	11.5	16.4	-6.9	2	-36.9	-30	7.5
2409.20	11.3	16.4	-7.1	2	-37.1	-30	7.8
2409.25	11.2	16.4	-7.2	2	-37.2	-30	7.8
2409.30	10.9	16.4	-7.5	2	-37.5	-30	7.9
2409.35	10.8	16.4	-7.6	2	-37.6	-30	7.7
2409.40	10.7	16.4	-7.7	2	-37.7	-30	7.8
2409.45	10.7	16.4	-7.7	2	-37.7	-30	7.5
2409.50	10.7	16.4	-7.7	2	-37.7	-30	7.6
2409.55	10.9	16.4	-7.5	2	-37.5	-30	7.6
2409.60	11	16.4	-7.4	2	-37.4	-30	7.9
2409.65	11.1	16.4	-7.3	2	-37.3	-30	7.7
2409.70	11.1	16.4	-7.3	2	-37.3	-30	7.2
2409.75	11.2	16.4	-7.2	2	-37.2	-30	7.9
2409.80	11.2	16.4	-7.2	2	-37.2	-30	7.7
2409.85	11.2	16.4	-7.2	2	-37.2	-30	7.8
2409.90	11.1	16.4	-7.3	2	-37.3	-30	7.2
2409.95	11.1	16.4	-7.3	2	-37.3	-30	7.5
2410.00	11	16.4	-7.4	2	-37.4	-30	7.3
2410.05	10.9	16.4	-7.5	2	-37.5	-30	7.4
2410.10	10.8	16.4	-7.6	2	-37.6	-30	7.6
2410.15	10.7	16.4	-7.7	2	-37.7	-30	7.7
2410.20	10.7	16.4	-7.7	2	-37.7	-30	7.3
2410.25	10.7	16.4	-7.7	2	-37.7	-30	7.2
2410.30	10.8	16.4	-7.6	2	-37.6	-30	7.5
2410.35	11	16.4	-7.4	2	-37.4	-30	7.4
2410.40	11.2	16.4	-7.2	2	-37.2	-30	7.5
2410.45	11.3	16.4	-7.1	2	-37.1	-30	7.9

2410.50	11.5	16.4	-6.9	2	-36.9	-30	7.9
2410.55	11.6	16.4	-6.8	2	-36.8	-30	7.6
2410.60	11.6	16.4	-6.8	2	-36.8	-30	7.7
2410.65	11.6	16.4	-6.8	2	-36.8	-30	7.2
2410.70	11.7	16.4	-6.7	2	-36.7	-30	7.9
2410.75	11.7	16.4	-6.7	2	-36.7	-30	7.6
2410.80	11.5	16.4	-6.9	2	-36.9	-30	7.3
2410.85	11.4	16.4	-7	2	-37	-30	8
2410.90	11.4	16.4	-7	2	-37	-30	7.7
2410.95	11.4	16.4	-7	2	-37	-30	7.9
2411.00	11.3	16.4	-7.1	2	-37.1	-30	7.3
2411.05	11	16.4	-7.4	2	-37.4	-30	7.8
2411.10	11	16.4	-7.4	2	-37.4	-30	7.8
2411.15	11.4	16.4	-7	2	-37	-30	7.8
2411.20	11.6	16.4	-6.8	2	-36.8	-30	7.7
2411.25	11.9	16.4	-6.5	2	-36.5	-30	7.8
2411.30	11.9	16.4	-6.5	2	-36.5	-30	7.9
2411.35	12.1	16.4	-6.3	2	-36.3	-30	7.9
2411.40	12.3	16.4	-6.1	2	-36.1	-30	7.9
2411.45	12.3	16.4	-6.1	2	-36.1	-30	7.9
2411.50	12.3	16.4	-6.1	2	-36.1	-30	8
2411.55	12.1	16.4	-6.3	2	-36.3	-30	7.9
2411.60	12.1	16.4	-6.3	2	-36.3	-30	7.5
2411.65	11.9	16.4	-6.5	2	-36.5	-30	7.6
2411.70	11.8	16.4	-6.6	2	-36.6	-30	7.1
2411.75	11.6	16.4	-6.8	2	-36.8	-30	7.8
2411.80	11.4	16.4	-7	2	-37	-30	7.2
2411.85	11.4	16.4	-7	2	-37	-30	7.8
2411.90	11.3	16.4	-7.1	2	-37.1	-30	7.7
2411.95	11.5	16.4	-6.9	2	-36.9	-30	7.9
2412.00	11.2	16.4	-7.2	2	-37.2	-30	7.7
2412.05	11.1	16.4	-7.3	2	-37.3	-30	7.7
2412.10	11.4	16.4	-7	2	-37	-30	7.2
2412.15	11.6	16.4	-6.8	2	-36.8	-30	7.4
2412.20	11.9	16.4	-6.5	2	-36.5	-30	7.6
2412.25	11.8	16.4	-6.6	2	-36.6	-30	7.4

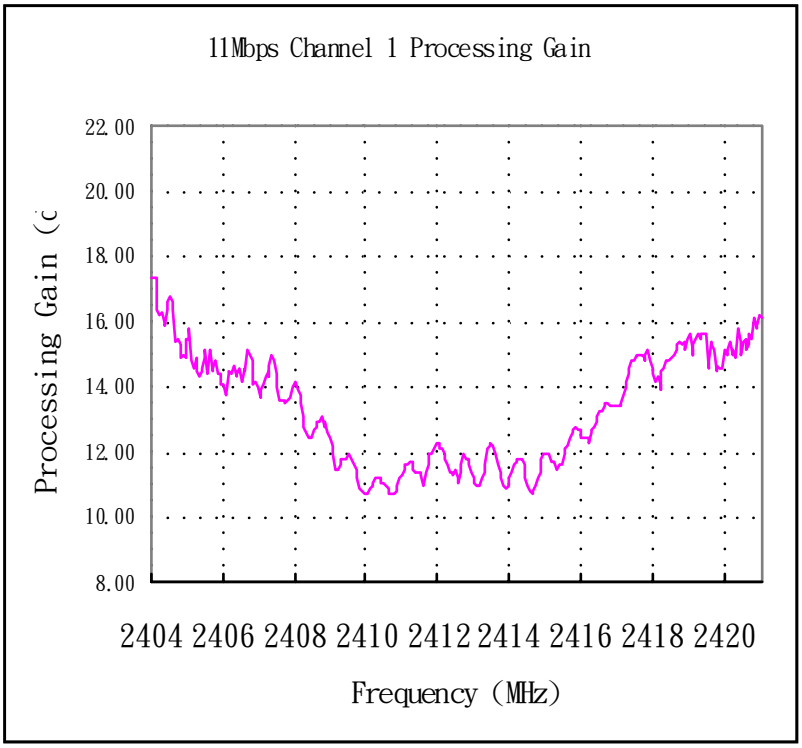
2412.30	11.8	16.4	-6.6	2	-36.6	-30	7.9
2412.35	11.6	16.4	-6.8	2	-36.8	-30	7.9
2412.40	11.4	16.4	-7	2	-37	-30	7.3
2412.45	11.2	16.4	-7.2	2	-37.2	-30	7.2
2412.50	11.1	16.4	-7.3	2	-37.3	-30	7.2
2412.55	11	16.4	-7.4	2	-37.4	-30	7.2
2412.60	11	16.4	-7.4	2	-37.4	-30	7.2
2412.65	11	16.4	-7.4	2	-37.4	-30	7.9
2412.70	11.2	16.4	-7.2	2	-37.2	-30	7.3
2412.75	11.4	16.4	-7	2	-37	-30	7.4
2412.80	11.6	16.4	-6.8	2	-36.8	-30	7.3
2412.85	12.1	16.4	-6.3	2	-36.3	-30	7.5
2412.90	12.2	16.4	-6.2	2	-36.2	-30	7.4
2412.95	12.3	16.4	-6.1	2	-36.1	-30	7.5
2413.00	12.2	16.4	-6.2	2	-36.2	-30	7.2
2413.05	12.2	16.4	-6.2	2	-36.2	-30	7.8
2413.10	11.9	16.4	-6.5	2	-36.5	-30	7.9
2413.15	11.6	16.4	-6.8	2	-36.8	-30	7.9
2413.20	11.4	16.4	-7	2	-37	-30	7.8
2413.25	11.2	16.4	-7.2	2	-37.2	-30	8
2413.30	11	16.4	-7.4	2	-37.4	-30	7.4
2413.35	10.9	16.4	-7.5	2	-37.5	-30	7.5
2413.40	11	16.4	-7.4	2	-37.4	-30	7.5
2413.45	11	16.4	-7.4	2	-37.4	-30	7.6
2413.50	11.2	16.4	-7.2	2	-37.2	-30	7.9
2413.55	11.4	16.4	-7	2	-37	-30	7.4
2413.60	11.6	16.4	-6.8	2	-36.8	-30	7.9
2413.65	11.7	16.4	-6.7	2	-36.7	-30	7.6
2413.70	11.8	16.4	-6.6	2	-36.6	-30	7.4
2413.75	11.8	16.4	-6.6	2	-36.6	-30	7.4
2413.80	11.8	16.4	-6.6	2	-36.6	-30	7.8
2413.85	11.6	16.4	-6.8	2	-36.8	-30	8
2413.90	11.4	16.4	-7	2	-37	-30	7.7
2413.95	11.2	16.4	-7.2	2	-37.2	-30	7.3
2414.00	11	16.4	-7.4	2	-37.4	-30	7.8
2414.05	10.8	16.4	-7.6	2	-37.6	-30	7.3

2414.10	10.7	16.4	-7.7	2	-37.7	-30	7.7
2414.15	10.8	16.4	-7.6	2	-37.6	-30	7.6
2414.20	11	16.4	-7.4	2	-37.4	-30	7.8
2414.25	11.2	16.4	-7.2	2	-37.2	-30	7.6
2414.30	11.4	16.4	-7	2	-37	-30	7.4
2414.35	11.7	16.4	-6.7	2	-36.7	-30	7.6
2414.40	11.8	16.4	-6.6	2	-36.6	-30	7.3
2414.45	11.9	16.4	-6.5	2	-36.5	-30	7.2
2414.50	12	16.4	-6.4	2	-36.4	-30	7.7
2414.55	12	16.4	-6.4	2	-36.4	-30	7.6
2414.60	12	16.4	-6.4	2	-36.4	-30	7.8
2414.65	11.7	16.4	-6.7	2	-36.7	-30	7.6
2414.70	11.7	16.4	-6.7	2	-36.7	-30	7.6
2414.75	11.5	16.4	-6.9	2	-36.9	-30	7.7
2414.80	11.5	16.4	-6.9	2	-36.9	-30	7.8
2414.85	11.5	16.4	-6.9	2	-36.9	-30	7.6
2414.90	11.6	16.4	-6.8	2	-36.8	-30	7.9
2414.95	11.6	16.4	-6.8	2	-36.8	-30	7.4
2415.00	11.9	16.4	-6.5	2	-36.5	-30	7.4
2415.05	12.1	16.4	-6.3	2	-36.3	-30	7.9
2415.10	12.2	16.4	-6.2	2	-36.2	-30	7.8
2415.15	12.5	16.4	-5.9	2	-35.9	-30	8
2415.20	12.6	16.4	-5.8	2	-35.8	-30	7.9
2415.25	12.7	16.4	-5.7	2	-35.7	-30	7.5
2415.30	12.8	16.4	-5.6	2	-35.6	-30	8
2415.35	12.8	16.4	-5.6	2	-35.6	-30	7.7
2415.40	12.7	16.4	-5.7	2	-35.7	-30	7.6
2415.45	12.7	16.4	-5.7	2	-35.7	-30	7.7
2415.50	12.5	16.4	-5.9	2	-35.9	-30	8
2415.55	12.5	16.4	-5.9	2	-35.9	-30	7.6
2415.60	12.4	16.4	-6	2	-36	-30	7.7
2415.65	12.4	16.4	-6	2	-36	-30	7.5
2415.70	12.3	16.4	-6.1	2	-36.1	-30	7.9
2415.75	12.6	16.4	-5.8	2	-35.8	-30	7.4
2415.80	12.7	16.4	-5.7	2	-35.7	-30	7.3
2415.85	12.8	16.4	-5.6	2	-35.6	-30	8

2415.90	12.9	16.4	-5.5	2	-35.5	-30	7.2
2415.95	13.1	16.4	-5.3	2	-35.3	-30	7.5
2416.00	13.3	16.4	-5.1	2	-35.1	-30	7.4
2416.05	13.3	16.4	-5.1	2	-35.1	-30	7.8
2416.10	13.4	16.4	-5	2	-35	-30	7.3
2416.15	13.5	16.4	-4.9	2	-34.9	-30	7.9
2416.20	13.5	16.4	-4.9	2	-34.9	-30	7.5
2416.25	13.4	16.4	-5	2	-35	-30	7.5
2416.30	13.4	16.4	-5	2	-35	-30	7.1
2416.35	13.4	16.4	-5	2	-35	-30	7.4
2416.40	13.4	16.4	-5	2	-35	-30	7.6
2416.45	13.4	16.4	-5	2	-35	-30	7.8
2416.50	13.4	16.4	-5	2	-35	-30	7.5
2416.55	13.4	16.4	-5	2	-35	-30	7.3
2416.60	13.5	16.4	-4.9	2	-34.9	-30	7.6
2416.65	13.8	16.4	-4.6	2	-34.6	-30	8
2416.70	14	16.4	-4.4	2	-34.4	-30	7.8
2416.75	14.2	16.4	-4.2	2	-34.2	-30	7.3
2416.80	14.4	16.4	-4	2	-34	-30	7.6
2416.85	14.6	16.4	-3.8	2	-33.8	-30	7.6
2416.90	14.8	16.4	-3.6	2	-33.6	-30	7.6
2416.95	14.8	16.4	-3.6	2	-33.6	-30	7.3
2417.00	15	16.4	-3.4	2	-33.4	-30	7.4
2417.05	15	16.4	-3.4	2	-33.4	-30	7.9
2417.10	15	16.4	-3.4	2	-33.4	-30	7.3
2417.15	15	16.4	-3.4	2	-33.4	-30	7.7
2417.20	14.9	16.4	-3.5	2	-33.5	-30	7.7
2417.25	14.8	16.4	-3.6	2	-33.6	-30	7.9
2417.30	15	16.4	-3.4	2	-33.4	-30	8
2417.35	15.1	16.4	-3.3	2	-33.3	-30	7.4
2417.40	14.8	16.4	-3.6	2	-33.6	-30	6.8
2417.45	14.6	16.4	-3.8	2	-33.8	-30	7.2
2417.50	14.4	16.4	-4	2	-34	-30	7.1
2417.55	14.2	16.4	-4.2	2	-34.2	-30	6.5
2417.60	14.3	16.4	-4.1	2	-34.1	-30	6.4
2417.65	14.1	16.4	-4.3	2	-34.3	-30	5.3

2417.70	13.9	16.4	-4.5	2	-34.5	-30	7.1
2417.75	14.5	16.4	-3.9	2	-33.9	-30	6.8
2417.80	14.6	16.4	-3.8	2	-33.8	-30	7.5
2417.85	14.8	16.4	-3.6	2	-33.6	-30	7.1
2417.90	14.8	16.4	-3.6	2	-33.6	-30	6.3
2417.95	14.8	16.4	-3.6	2	-33.6	-30	6.5
2418.00	14.9	16.4	-3.5	2	-33.5	-30	5.8
2418.05	15	16.4	-3.4	2	-33.4	-30	5.9
2418.10	15.1	16.4	-3.3	2	-33.3	-30	6.1
2418.15	15.2	16.4	-3.2	2	-33.2	-30	6.2
2418.20	15.3	16.4	-3.1	2	-33.1	-30	6
2418.25	15.4	16.4	-3	2	-33	-30	5.7
2418.30	15.3	16.4	-3.1	2	-33.1	-30	5.8
2418.35	15.4	16.4	-3	2	-33	-30	5.7
2418.40	15.2	16.4	-3.2	2	-33.2	-30	7
2418.45	15.5	16.4	-2.9	2	-32.9	-30	6.8
2418.50	15.6	16.4	-2.8	2	-32.8	-30	6.7
2418.55	15.2	16.4	-3.2	2	-33.2	-30	6.8
2418.60	15	16.4	-3.4	2	-33.4	-30	5.9
2418.65	15.3	16.4	-3.1	2	-33.1	-30	7.3
2418.70	15.5	16.4	-2.9	2	-32.9	-30	7.2
2418.75	15.6	16.4	-2.8	2	-32.8	-30	7.1
2418.80	15.5	16.4	-2.9	2	-32.9	-30	7
2418.85	15.6	16.4	-2.8	2	-32.8	-30	6.8
2418.90	15.7	16.4	-2.7	2	-32.7	-30	6.7
2418.95	15.6	16.4	-2.8	2	-32.8	-30	6.8
2419.00	14.6	16.4	-3.8	2	-33.8	-30	5.9
2419.05	14.8	16.4	-3.6	2	-33.6	-30	6.1
2419.10	15.4	16.4	-3	2	-33	-30	5.7
2419.15	15.3	16.4	-3.1	2	-33.1	-30	6.1
2419.20	15.2	16.4	-3.2	2	-33.2	-30	6.2
2419.25	14.5	16.4	-3.9	2	-33.9	-30	6.3
2419.30	14.7	16.4	-3.7	2	-33.7	-30	6.1
2419.35	14.6	16.4	-3.8	2	-33.8	-30	5.8
2419.40	14.6	16.4	-3.8	2	-33.8	-30	5.9
2419.45	15.2	16.4	-3.2	2	-33.2	-30	6.1

2419.50	15.1	16.4	-3.3	2	-33.3	-30	7.1
2419.55	15	16.4	-3.4	2	-33.4	-30	7.3
2419.60	15.2	16.4	-3.2	2	-33.2	-30	7.4
2419.65	15.4	16.4	-3	2	-33	-30	7.5
2419.70	15	16.4	-3.4	2	-33.4	-30	7.6
2419.75	15.2	16.4	-3.2	2	-33.2	-30	7.1
2419.80	14.9	16.4	-3.5	2	-33.5	-30	7.4
2419.85	15.8	16.4	-2.6	2	-32.6	-30	5.9
2419.90	15.4	16.4	-3	2	-33	-30	5.6
2419.95	15	16.4	-3.4	2	-33.4	-30	5.8
2420.00	15.4	16.4	-3	2	-33	-30	6.3
2420.05	15.5	16.4	-2.9	2	-32.9	-30	6.1
2420.10	15.2	16.4	-3.2	2	-33.2	-30	6.2
2420.15	15.3	16.4	-3.1	2	-33.1	-30	6.3
2420.20	15.7	16.4	-2.7	2	-32.7	-30	6.1
2420.25	15.5	16.4	-2.9	2	-32.9	-30	6.5
2420.30	16.1	16.4	-2.3	2	-32.3	-30	6.3
2420.35	15.8	16.4	-2.6	2	-32.6	-30	6.4
2420.40	15.9	16.4	-2.5	2	-32.5	-30	6.5
2420.45	16.2	16.4	-2.2	2	-32.2	-30	6.2
2420.50	16.1	16.4	-2.3	2	-32.3	-30	6.5
Processing Gain (dB) @20th Percentile=				11.5			


11Mbps Channel 1 Processing Gain
Processing Gain (c
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
2404 2406 2408 2410 2412 2414 2416 2418 2420
Frequency (MHz)

11Mbps Channel 6 Processing Gain							
Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2428.50	21.4	16.4	3	2	-29.2	-32.2	7.2
2428.55	20.9	16.4	2.5	2	-29.7	-32.2	6.7
2428.60	21.4	16.4	3	2	-29.2	-32.2	7.6
2428.65	20.9	16.4	2.5	2	-29.7	-32.2	6.5
2428.70	21.1	16.4	2.7	2	-29.5	-32.2	7.8
2428.75	21.2	16.4	2.8	2	-29.4	-32.2	7.3
2428.80	20.9	16.4	2.5	2	-29.7	-32.2	6.5
2428.85	20.6	16.4	2.2	2	-30	-32.2	9.7
2428.90	20.4	16.4	2	2	-30.2	-32.2	6.9
2428.95	20.8	16.4	2.4	2	-29.8	-32.2	7.2
2429.00	20.7	16.4	2.3	2	-29.9	-32.2	6.9
2429.05	21	16.4	2.6	2	-29.6	-32.2	7.9
2429.10	21.3	16.4	2.9	2	-29.3	-32.2	7.4
2429.15	20.9	16.4	2.5	2	-29.7	-32.2	7.4
2429.20	20.8	16.4	2.4	2	-29.8	-32.2	7
2429.25	20.7	16.4	2.3	2	-29.9	-32.2	6.7
2429.30	20.6	16.4	2.2	2	-30	-32.2	6.5
2429.35	20.5	16.4	2.1	2	-30.1	-32.2	7.6
2429.40	20.4	16.4	2	2	-30.2	-32.2	7.4
2429.45	20.25	16.4	1.85	2	-30.35	-32.2	7.3
2429.50	20.2	16.4	1.8	2	-30.4	-32.2	7.3
2429.55	20	16.4	1.6	2	-30.6	-32.2	5.3
2429.60	19.8	16.4	1.4	2	-30.8	-32.2	5.6
2429.65	19.9	16.4	1.5	2	-30.7	-32.2	6.7
2429.70	20.1	16.4	1.7	2	-30.5	-32.2	6.8
2429.75	19.8	16.4	1.4	2	-30.8	-32.2	6.7
2429.80	19.7	16.4	1.3	2	-30.9	-32.2	5.5
2429.85	19.6	16.4	1.2	2	-31	-32.2	7.5
2429.90	19.5	16.4	1.1	2	-31.1	-32.2	7.8
2429.95	19.4	16.4	1	2	-31.2	-32.2	7.6
2430.00	19.4	16.4	1	2	-31.2	-32.2	5.6
2430.05	19	16.4	0.6	2	-31.6	-32.2	6.7

2430.10	18.9	16.4	0.5	2	-31.7	-32.2	5.7
2430.15	18.7	16.4	0.3	2	-31.9	-32.2	6.3
2430.20	18.7	16.4	0.3	2	-31.9	-32.2	7.6
2430.25	18.45	16.4	0.05	2	-32.15	-32.2	7
2430.30	18.3	16.4	-0.1	2	-32.3	-32.2	7.1
2430.35	18.2	16.4	-0.2	2	-32.4	-32.2	7.4
2430.40	18	16.4	-0.4	2	-32.6	-32.2	7.5
2430.45	17.8	16.4	-0.6	2	-32.8	-32.2	5.6
2430.50	17.7	16.4	-0.7	2	-32.9	-32.2	6.1
2430.55	17.5	16.4	-0.9	2	-33.1	-32.2	5.6
2430.60	17.2	16.4	-1.2	2	-33.4	-32.2	5.1
2430.65	16.8	16.4	-1.6	2	-33.8	-32.2	6.9
2430.70	16.6	16.4	-1.8	2	-34	-32.2	6.9
2430.75	16.3	16.4	-2.1	2	-34.3	-32.2	7.3
2430.80	16.3	16.4	-2.1	2	-34.3	-32.2	7.5
2430.85	16.2	16.4	-2.2	2	-34.4	-32.2	6.8
2430.90	16	16.4	-2.4	2	-34.6	-32.2	7.4
2430.95	16.2	16.4	-2.2	2	-34.4	-32.2	6.8
2431.00	16.1	16.4	-2.3	2	-34.5	-32.2	7.9
2431.05	16	16.4	-2.4	2	-34.6	-32.2	7.2
2431.10	16	16.4	-2.4	2	-34.6	-32.2	7.9
2431.15	15.6	16.4	-2.8	2	-35	-32.2	7
2431.20	15.6	16.4	-2.8	2	-35	-32.2	6.2
2431.25	15.4	16.4	-3	2	-35.2	-32.2	6.5
2431.30	15.3	16.4	-3.1	2	-35.3	-32.2	6.9
2431.35	15.1	16.4	-3.3	2	-35.5	-32.2	6.4
2431.40	15.3	16.4	-3.1	2	-35.3	-32.2	6.8
2431.45	14.9	16.4	-3.5	2	-35.7	-32.2	6.1
2431.50	14.9	16.4	-3.5	2	-35.7	-32.2	6.3
2431.55	14.7	16.4	-3.7	2	-35.9	-32.2	6.6
2431.60	14.8	16.4	-3.6	2	-35.8	-32.2	7
2431.65	14.7	16.4	-3.7	2	-35.9	-32.2	6.8
2431.70	14.6	16.4	-3.8	2	-36	-32.2	6.4
2431.75	14.5	16.4	-3.9	2	-36.1	-32.2	6.2
2431.80	14.6	16.4	-3.8	2	-36	-32.2	6.3
2431.85	14.3	16.4	-4.1	2	-36.3	-32.2	6.3

2431.90	14.1	16.4	-4.3	2	-36.5	-32.2	5.9
2431.95	13.5	16.4	-4.9	2	-37.1	-32.2	6.7
2432.00	13.4	16.4	-5	2	-37.2	-32.2	7.2
2432.05	13.3	16.4	-5.1	2	-37.3	-32.2	7.1
2432.10	13.4	16.4	-5	2	-37.2	-32.2	7.5
2432.15	13	16.4	-5.4	2	-37.6	-32.2	6.8
2432.20	12.8	16.4	-5.6	2	-37.8	-32.2	5.9
2432.25	13.1	16.4	-5.3	2	-37.5	-32.2	6.5
2432.30	13	16.4	-5.4	2	-37.6	-32.2	6.9
2432.35	12.8	16.4	-5.6	2	-37.8	-32.2	5.1
2432.40	13	16.4	-5.4	2	-37.6	-32.2	7.6
2432.45	13.2	16.4	-5.2	2	-37.4	-32.2	6.3
2432.50	12.8	16.4	-5.6	2	-37.8	-32.2	5
2432.55	13	16.4	-5.4	2	-37.6	-32.2	6.6
2432.60	12.8	16.4	-5.6	2	-37.8	-32.2	5.6
2432.65	12.7	16.4	-5.7	2	-37.9	-32.2	6.7
2432.70	12.6	16.4	-5.8	2	-38	-32.2	6.8
2432.75	12.4	16.4	-6	2	-38.2	-32.2	6.1
2432.80	12.3	16.4	-6.1	2	-38.3	-32.2	5.4
2432.85	12.2	16.4	-6.2	2	-38.4	-32.2	7
2432.90	12.1	16.4	-6.3	2	-38.5	-32.2	7.2
2432.95	11.9	16.4	-6.5	2	-38.7	-32.2	5.2
2433.00	11.6	16.4	-6.8	2	-39	-32.2	4.2
2433.05	11.9	16.4	-6.5	2	-38.7	-32.2	7.9
2433.10	11.9	16.4	-6.5	2	-38.7	-32.2	7.8
2433.15	11.9	16.4	-6.5	2	-38.7	-32.2	6.5
2433.20	11.9	16.4	-6.5	2	-38.7	-32.2	7.8
2433.25	11.8	16.4	-6.6	2	-38.8	-32.2	5.9
2433.30	11.7	16.4	-6.7	2	-38.9	-32.2	5.8
2433.35	11.7	16.4	-6.7	2	-38.9	-32.2	7.1
2433.40	11.6	16.4	-6.8	2	-39	-32.2	6.9
2433.45	11.6	16.4	-6.8	2	-39	-32.2	6.5
2433.50	11.4	16.4	-7	2	-39.2	-32.2	6
2433.55	11.4	16.4	-7	2	-39.2	-32.2	6.8
2433.60	11.4	16.4	-7	2	-39.2	-32.2	6.9
2433.65	11.1	16.4	-7.3	2	-39.5	-32.2	5.2

2433.70	11.1	16.4	-7.3	2	-39.5	-32.2	4.8
2433.75	11.1	16.4	-7.3	2	-39.5	-32.2	4.7
2433.80	11.2	16.4	-7.2	2	-39.4	-32.2	7.8
2433.85	11.1	16.4	-7.3	2	-39.5	-32.2	5.3
2433.90	11	16.4	-7.4	2	-39.6	-32.2	0.2
2433.95	10.8	16.4	-7.6	2	-39.8	-32.2	6.7
2434.00	10.7	16.4	-7.7	2	-39.9	-32.2	7.1
2434.05	10.8	16.4	-7.6	2	-39.8	-32.2	4.3
2434.10	10.4	16.4	-8	2	-40.2	-32.2	5.1
2434.15	10.8	16.4	-7.6	2	-39.8	-32.2	4.9
2434.20	10	16.4	-8.4	2	-40.6	-32.2	7.2
2434.25	10.4	16.4	-8	2	-40.2	-32.2	6.7
2434.30	10.8	16.4	-7.6	2	-39.8	-32.2	5.3
2434.35	10.7	16.4	-7.7	2	-39.9	-32.2	4.9
2434.40	10.4	16.4	-8	2	-40.2	-32.2	5.3
2434.45	10.6	16.4	-7.8	2	-40	-32.2	6.8
2434.50	10.4	16.4	-8	2	-40.2	-32.2	7.2
2434.55	10.3	16.4	-8.1	2	-40.3	-32.2	6.8
2434.60	10	16.4	-8.4	2	-40.6	-32.2	5.3
2434.65	10	16.4	-8.4	2	-40.6	-32.2	6.1
2434.70	10.1	16.4	-8.3	2	-40.5	-32.2	5.9
2434.75	10.1	16.4	-8.3	2	-40.5	-32.2	4.8
2434.80	10.1	16.4	-8.3	2	-40.5	-32.2	5.8
2434.85	10.1	16.4	-8.3	2	-40.5	-32.2	5.3
2434.90	10.1	16.4	-8.3	2	-40.5	-32.2	7.8
2434.95	10.1	16.4	-8.3	2	-40.5	-32.2	5.2
2435.00	10	16.4	-8.4	2	-40.6	-32.2	6.8
2435.05	10.2	16.4	-8.2	2	-40.4	-32.2	6.5
2435.10	10.8	16.4	-7.6	2	-39.8	-32.2	7.4
2435.15	10.4	16.4	-8	2	-40.2	-32.2	6.4
2435.20	10.4	16.4	-8	2	-40.2	-32.2	7.2
2435.25	10.4	16.4	-8	2	-40.2	-32.2	5.8
2435.30	10.4	16.4	-8	2	-40.2	-32.2	6.2
2435.35	10.4	16.4	-8	2	-40.2	-32.2	4.8
2435.40	10.4	16.4	-8	2	-40.2	-32.2	6.3
2435.45	10.1	16.4	-8.3	2	-40.5	-32.2	7.2

2435.50	10.2	16.4	-8.2	2	-40.4	-32.2	6.8
2435.55	10.3	16.4	-8.1	2	-40.3	-32.2	5.6
2435.60	10.2	16.4	-8.2	2	-40.4	-32.2	7.3
2435.65	10.4	16.4	-8	2	-40.2	-32.2	6.8
2435.70	10.4	16.4	-8	2	-40.2	-32.2	6.2
2435.75	10.8	16.4	-7.6	2	-39.8	-32.2	7.9
2435.80	10.4	16.4	-8	2	-40.2	-32.2	6.3
2435.85	10.9	16.4	-7.5	2	-39.7	-32.2	6.5
2435.90	10.4	16.4	-8	2	-40.2	-32.2	6.8
2435.95	10.8	16.4	-7.6	2	-39.8	-32.2	7.6
2436.00	10.7	16.4	-7.7	2	-39.9	-32.2	6.8
2436.05	10.6	16.4	-7.8	2	-40	-32.2	5.6
2436.10	10.4	16.4	-8	2	-40.2	-32.2	4.4
2436.15	10.6	16.4	-7.8	2	-40	-32.2	4.4
2436.20	10.8	16.4	-7.6	2	-39.8	-32.2	5.6
2436.25	10.8	16.4	-7.6	2	-39.8	-32.2	6.7
2436.30	11	16.4	-7.4	2	-39.6	-32.2	5.6
2436.35	10.6	16.4	-7.8	2	-40	-32.2	6.8
2436.40	10.8	16.4	-7.6	2	-39.8	-32.2	7.2
2436.45	10.7	16.4	-7.7	2	-39.9	-32.2	5.6
2436.50	10.8	16.4	-7.6	2	-39.8	-32.2	4.2
2436.55	10.8	16.4	-7.6	2	-39.8	-32.2	6.8
2436.60	10.9	16.4	-7.5	2	-39.7	-32.2	4.7
2436.65	10.6	16.4	-7.8	2	-40	-32.2	6.8
2436.70	10.7	16.4	-7.7	2	-39.9	-32.2	62
2436.75	10.4	16.4	-8	2	-40.2	-32.2	7.4
2436.80	10.5	16.4	-7.9	2	-40.1	-32.2	7.3
2436.85	10.7	16.4	-7.7	2	-39.9	-32.2	6.9
2436.90	10.8	16.4	-7.6	2	-39.8	-32.2	6.8
2436.95	10.3	16.4	-8.1	2	-40.3	-32.2	7.2
2437.00	10.4	16.4	-8	2	-40.2	-32.2	5.7
2437.05	10.4	16.4	-8	2	-40.2	-32.2	6.2
2437.10	10.5	16.4	-7.9	2	-40.1	-32.2	5.6
2437.15	10.5	16.4	-7.9	2	-40.1	-32.2	6.8
2437.20	10.5	16.4	-7.9	2	-40.1	-32.2	7.2
2437.25	10.7	16.4	-7.7	2	-39.9	-32.2	6.2

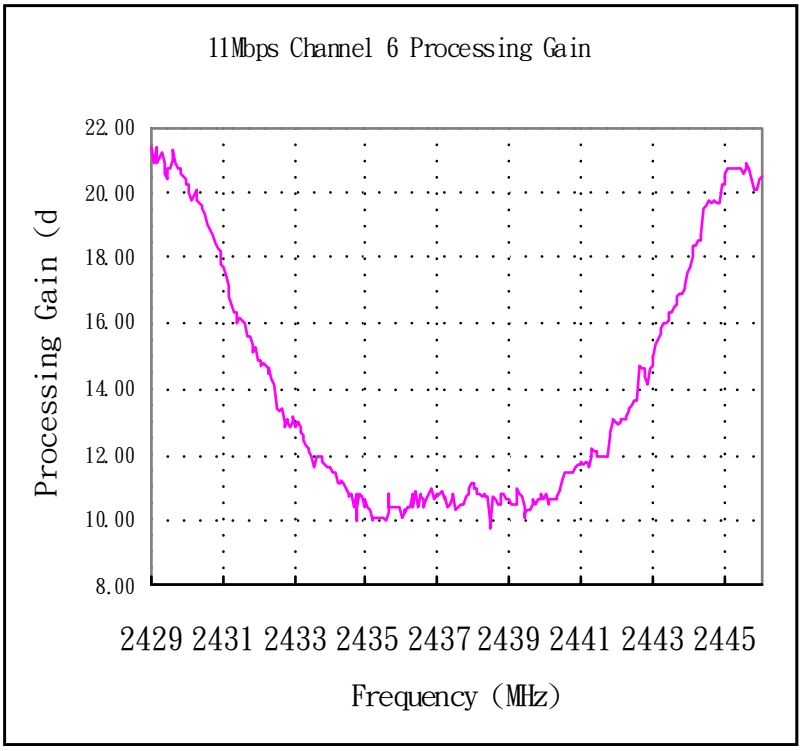
2437.30	10.8	16.4	-7.6	2	-39.8	-32.2	5.6
2437.35	11	16.4	-7.4	2	-39.6	-32.2	6.8
2437.40	11.1	16.4	-7.3	2	-39.5	-32.2	7.2
2437.45	11.1	16.4	-7.3	2	-39.5	-32.2	7
2437.50	11	16.4	-7.4	2	-39.6	-32.2	6.9
2437.55	11	16.4	-7.4	2	-39.6	-32.2	7.2
2437.60	10.8	16.4	-7.6	2	-39.8	-32.2	6.8
2437.65	10.8	16.4	-7.6	2	-39.8	-32.2	7.4
2437.70	10.7	16.4	-7.7	2	-39.9	-32.2	6.8
2437.75	10.8	16.4	-7.6	2	-39.8	-32.2	7.3
2437.80	10.7	16.4	-7.7	2	-39.9	-32.2	6.7
2437.85	10.7	16.4	-7.7	2	-39.9	-32.2	6.8
2437.90	10	16.4	-8.4	2	-40.6	-32.2	4.2
2437.95	9.8	16.4	-8.6	2	-40.8	-32.2	3.5
2438.00	10.7	16.4	-7.7	2	-39.9	-32.2	4.3
2438.05	10.7	16.4	-7.7	2	-39.9	-32.2	5.6
2438.10	10.6	16.4	-7.8	2	-40	-32.2	6.2
2438.15	10.5	16.4	-7.9	2	-40.1	-32.2	4.3
2438.20	10.5	16.4	-7.9	2	-40.1	-32.2	5.7
2438.25	10.8	16.4	-7.6	2	-39.8	-32.2	5.6
2438.30	10.8	16.4	-7.6	2	-39.8	-32.2	6.8
2438.35	10.6	16.4	-7.8	2	-40	-32.2	7.2
2438.40	10.6	16.4	-7.8	2	-40	-32.2	6.8
2438.45	10.6	16.4	-7.8	2	-40	-32.2	6.8
2438.50	10.6	16.4	-7.8	2	-40	-32.2	5.4
2438.55	10.5	16.4	-7.9	2	-40.1	-32.2	4.3
2438.60	10.5	16.4	-7.9	2	-40.1	-32.2	6.8
2438.65	10.5	16.4	-7.9	2	-40.1	-32.2	7.2
2438.70	11	16.4	-7.4	2	-39.6	-32.2	7.1
2438.75	10.8	16.4	-7.6	2	-39.8	-32.2	7.3
2438.80	10.7	16.4	-7.7	2	-39.9	-32.2	5.2
2438.85	10.4	16.4	-8	2	-40.2	-32.2	6.8
2438.90	10.1	16.4	-8.3	2	-40.5	-32.2	7.2
2438.95	10.2	16.4	-8.2	2	-40.4	-32.2	6.8
2439.00	10.3	16.4	-8.1	2	-40.3	-32.2	7.2
2439.05	10.3	16.4	-8.1	2	-40.3	-32.2	6.8

2439.10	10.5	16.4	-7.9	2	-40.1	-32.2	6.5
2439.15	10.6	16.4	-7.8	2	-40	-32.2	5.6
2439.20	10.5	16.4	-7.9	2	-40.1	-32.2	6.2
2439.25	10.6	16.4	-7.8	2	-40	-32.2	5.6
2439.30	10.6	16.4	-7.8	2	-40	-32.2	6.8
2439.35	10.6	16.4	-7.8	2	-40	-32.2	7.6
2439.40	10.8	16.4	-7.6	2	-39.8	-32.2	7.2
2439.45	10.6	16.4	-7.8	2	-40	-32.2	
2439.50	10.8	16.4	-7.6	2	-39.8	-32.2	
2439.55	10.5	16.4	-7.9	2	-40.1	-32.2	
2439.60	10.6	16.4	-7.8	2	-40	-32.2	
2439.65	10.6	16.4	-7.8	2	-40	-32.2	
2439.70	10.6	16.4	-7.8	2	-40	-32.2	
2439.75	10.6	16.4	-7.8	2	-40	-32.2	
2439.80	10.7	16.4	-7.7	2	-39.9	-32.2	
2439.85	10.7	16.4	-7.7	2	-39.9	-32.2	
2439.90	10.9	16.4	-7.5	2	-39.7	-32.2	
2439.95	11.2	16.4	-7.2	2	-39.4	-32.2	
2440.00	11.4	16.4	-7	2	-39.2	-32.2	7.7
2440.05	11.4	16.4	-7	2	-39.2	-32.2	7.2
2440.10	11.5	16.4	-6.9	2	-39.1	-32.2	6.9
2440.15	11.4	16.4	-7	2	-39.2	-32.2	6.8
2440.20	11.5	16.4	-6.9	2	-39.1	-32.2	6.5
2440.25	11.5	16.4	-6.9	2	-39.1	-32.2	6.8
2440.30	11.6	16.4	-6.8	2	-39	-32.2	6.5
2440.35	11.6	16.4	-6.8	2	-39	-32.2	6.2
2440.40	11.7	16.4	-6.7	2	-38.9	-32.2	5.6
2440.45	11.7	16.4	-6.7	2	-38.9	-32.2	5.4
2440.50	11.8	16.4	-6.6	2	-38.8	-32.2	5.6
2440.55	11.7	16.4	-6.7	2	-38.9	-32.2	4.8
2440.60	11.8	16.4	-6.6	2	-38.8	-32.2	3.4
2440.65	11.7	16.4	-6.7	2	-38.9	-32.2	6.7
2440.70	11.6	16.4	-6.8	2	-39	-32.2	6.1
2440.75	12	16.4	-6.4	2	-38.6	-32.2	5.6
2440.80	12.2	16.4	-6.2	2	-38.4	-32.2	5.1
2440.85	12.1	16.4	-6.3	2	-38.5	-32.2	6.2

2440.90	12.1	16.4	-6.3	2	-38.5	-32.2	5.6
2440.95	12	16.4	-6.4	2	-38.6	-32.2	7
2441.00	12	16.4	-6.4	2	-38.6	-32.2	7.1
2441.05	11.9	16.4	-6.5	2	-38.7	-32.2	5.8
2441.10	11.9	16.4	-6.5	2	-38.7	-32.2	6.2
2441.15	11.9	16.4	-6.5	2	-38.7	-32.2	5.3
2441.20	12	16.4	-6.4	2	-38.6	-32.2	5.6
2441.25	12.6	16.4	-5.8	2	-38	-32.2	6.2
2441.30	12.7	16.4	-5.7	2	-37.9	-32.2	7.2
2441.35	13	16.4	-5.4	2	-37.6	-32.2	5.1
2441.40	13.1	16.4	-5.3	2	-37.5	-32.2	6.8
2441.45	13	16.4	-5.4	2	-37.6	-32.2	6.5
2441.50	12.9	16.4	-5.5	2	-37.7	-32.2	6.7
2441.55	13	16.4	-5.4	2	-37.6	-32.2	5.8
2441.60	13.1	16.4	-5.3	2	-37.5	-32.2	6.2
2441.65	13.1	16.4	-5.3	2	-37.5	-32.2	6.8
2441.70	13.1	16.4	-5.3	2	-37.5	-32.2	2.2
2441.75	13.2	16.4	-5.2	2	-37.4	-32.2	4.6
2441.80	13.3	16.4	-5.1	2	-37.3	-32.2	6.2
2441.85	13.4	16.4	-5	2	-37.2	-32.2	5.4
2441.90	13.5	16.4	-4.9	2	-37.1	-32.2	6.8
2441.95	13.6	16.4	-4.8	2	-37	-32.2	6.2
2442.00	13.7	16.4	-4.7	2	-36.9	-32.2	5.6
2442.05	13.7	16.4	-4.7	2	-36.9	-32.2	6.8
2442.10	14.7	16.4	-3.7	2	-35.9	-32.2	4.2
2442.15	14.6	16.4	-3.8	2	-36	-32.2	5.9
2442.20	14.6	16.4	-3.8	2	-36	-32.2	4.4
2442.25	14.5	16.4	-3.9	2	-36.1	-32.2	6.6
2442.30	14.4	16.4	-4	2	-36.2	-32.2	7.1
2442.35	14.2	16.4	-4.2	2	-36.4	-32.2	5.6
2442.40	14.6	16.4	-3.8	2	-36	-32.2	6.4
2442.45	14.7	16.4	-3.7	2	-35.9	-32.2	6.3
2442.50	15	16.4	-3.4	2	-35.6	-32.2	6.9
2442.55	15.4	16.4	-3	2	-35.2	-32.2	7.2
2442.60	15.5	16.4	-2.9	2	-35.1	-32.2	6.2
2442.65	15.7	16.4	-2.7	2	-34.9	-32.2	5.4

2442.70	15.8	16.4	-2.6	2	-34.8	-32.2	5.1
2442.75	15.9	16.4	-2.5	2	-34.7	-32.2	4.3
2442.80	16	16.4	-2.4	2	-34.6	-32.2	6.2
2442.85	16	16.4	-2.4	2	-34.6	-32.2	5.8
2442.90	16.1	16.4	-2.3	2	-34.5	-32.2	7.2
2442.95	16.3	16.4	-2.1	2	-34.3	-32.2	6.3
2443.00	16.4	16.4	-2	2	-34.2	-32.2	5.7
2443.05	16.5	16.4	-1.9	2	-34.1	-32.2	6.5
2443.10	16.6	16.4	-1.8	2	-34	-32.2	5.5
2443.15	16.8	16.4	-1.6	2	-33.8	-32.2	5.9
2443.20	16.8	16.4	-1.6	2	-33.8	-32.2	6.4
2443.25	16.9	16.4	-1.5	2	-33.7	-32.2	6.7
2443.30	16.9	16.4	-1.5	2	-33.7	-32.2	6.2
2443.35	17.1	16.4	-1.3	2	-33.5	-32.2	5.4
2443.40	17.2	16.4	-1.2	2	-33.4	-32.2	5.1
2443.45	17.6	16.4	-0.8	2	-33	-32.2	5.6
2443.50	17.7	16.4	-0.7	2	-32.9	-32.2	4.8
2443.55	18.1	16.4	-0.3	2	-32.5	-32.2	6.8
2443.60	18.2	16.4	-0.2	2	-32.4	-32.2	4.3
2443.65	18.4	16.4	0	2	-32.2	-32.2	4.2
2443.70	18.4	16.4	0	2	-32.2	-32.2	5.6
2443.75	18.6	16.4	0.2	2	-32	-32.2	6.7
2443.80	18.6	16.4	0.2	2	-32	-32.2	7.8
2443.85	18.7	16.4	0.3	2	-31.9	-32.2	5.4
2443.90	19.5	16.4	1.1	2	-31.1	-32.2	4.9
2443.95	19.6	16.4	1.2	2	-31	-32.2	7
2444.00	19.8	16.4	1.4	2	-30.8	-32.2	5.6
2444.05	19.8	16.4	1.4	2	-30.8	-32.2	6.8
2444.10	19.7	16.4	1.3	2	-30.9	-32.2	5.3
2444.15	19.7	16.4	1.3	2	-30.9	-32.2	5.9
2444.20	19.8	16.4	1.4	2	-30.8	-32.2	5.2
2444.25	19.7	16.4	1.3	2	-30.9	-32.2	6.3
2444.30	19.7	16.4	1.3	2	-30.9	-32.2	4.8
2444.35	19.7	16.4	1.3	2	-30.9	-32.2	5.4
2444.40	20.2	16.4	1.8	2	-30.4	-32.2	4.7
2444.45	20.3	16.4	1.9	2	-30.3	-32.2	5.9

2444.50	20.6	16.4	2.2	2	-30	-32.2	7
2444.55	20.7	16.4	2.3	2	-29.9	-32.2	6.7
2444.60	20.7	16.4	2.3	2	-29.9	-32.2	4.7
2444.65	20.7	16.4	2.3	2	-29.9	-32.2	4.8
2444.70	20.7	16.4	2.3	2	-29.9	-32.2	6
2444.75	20.8	16.4	2.4	2	-29.8	-32.2	6.1
2444.80	20.8	16.4	2.4	2	-29.8	-32.2	5.9
2444.85	20.8	16.4	2.4	2	-29.8	-32.2	6.2
2444.90	20.7	16.4	2.3	2	-29.9	-32.2	7.2
2444.95	20.7	16.4	2.3	2	-29.9	-32.2	6.5
2445.00	20.6	16.4	2.2	2	-30	-32.2	6.7
2445.05	20.7	16.4	2.3	2	-29.9	-32.2	6.3
2445.10	20.9	16.4	2.5	2	-29.7	-32.2	6.2
2445.15	20.8	16.4	2.4	2	-29.8	-32.2	5.4
2445.20	20.7	16.4	2.3	2	-29.9	-32.2	5.2
2445.25	20.4	16.4	2	2	-30.2	-32.2	6
2445.30	20.1	16.4	1.7	2	-30.5	-32.2	5.6
2445.35	20.1	16.4	1.7	2	-30.5	-32.2	6.4
2445.40	20.1	16.4	1.7	2	-30.5	-32.2	6.2
2445.45	20.4	16.4	2	2	-30.2	-32.2	6.7
2445.50	20.5	16.4	2.1	2	-30.1	-32.2	7.3
Processing Gain (dB) @20th Percentile=				10.6			


11Mbps Channel 6 Processing Gain
Processing Gain (d
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
2429 2431 2433 2435 2437 2439 2441 2443 2445
Frequency (MHz)

Gp=(S/N)o+Mj+Lsys							
Freq. (MHz)	Gp (dB)	(S/N)o (dB)	Mj = J/S (dB)	Lsys (dB)	Jammer (dBm)	Lvl (dBm)	FER
2453.50	23.2	16.4	4.8	2	-27.2	-32	7.4
2453.55	23	16.4	4.6	2	-27.4	-32	5.8
2453.60	22.9	16.4	4.5	2	-27.5	-32	6.2
2453.65	22.5	16.4	4.1	2	-27.9	-32	6.4
2453.70	22.4	16.4	4	2	-28	-32	6.3
2453.75	22.3	16.4	3.9	2	-28.1	-32	5.8
2453.80	22.2	16.4	3.8	2	-28.2	-32	6.5
2453.85	22.3	16.4	3.9	2	-28.1	-32	6.9
2453.90	22.8	16.4	4.4	2	-27.6	-32	7.8
2453.95	22.6	16.4	4.2	2	-27.8	-32	7.2
2454.00	22.9	16.4	4.5	2	-27.5	-32	7.8
2454.05	22.7	16.4	4.3	2	-27.7	-32	5.8
2454.10	22.7	16.4	4.3	2	-27.7	-32	5.3
2454.15	22.5	16.4	4.1	2	-27.9	-32	6.2
2454.20	22.7	16.4	4.3	2	-27.7	-32	5.8
2454.25	22.5	16.4	4.1	2	-27.9	-32	6.2
2454.30	21.4	16.4	3	2	-29	-32	5.1
2454.35	21.4	16.4	3	2	-29	-32	6.2
2454.40	21.2	16.4	2.8	2	-29.2	-32	5.8
2454.45	21.2	16.4	2.8	2	-29.2	-32	5.8
2454.50	20.9	16.4	2.5	2	-29.5	-32	7.5
2454.55	20.8	16.4	2.4	2	-29.6	-32	6.3
2454.60	20.7	16.4	2.3	2	-29.7	-32	6.5
2454.65	20.6	16.4	2.2	2	-29.8	-32	5.8
2454.70	20.7	16.4	2.3	2	-29.7	-32	8.3
2454.75	20.6	16.4	2.2	2	-29.8	-32	6.2
2454.80	20.3	16.4	1.9	2	-30.1	-32	5.6
2454.85	20.2	16.4	1.8	2	-30.2	-32	6.8
2454.90	20.2	16.4	1.8	2	-30.2	-32	7.5
2454.95	20.2	16.4	1.8	2	-30.2	-32	6.8
2455.00	20.2	16.4	1.8	2	-30.2	-32	7.8
2455.05	20.1	16.4	1.7	2	-30.3	-32	6.5
2455.10	19.9	16.4	1.5	2	-30.5	-32	6

2455.15	19.8	16.4	1.4	2	-30.6	-32	6.8
2455.20	19.5	16.4	1.1	2	-30.9	-32	7
2455.25	19.5	16.4	1.1	2	-30.9	-32	6.5
2455.30	19.2	16.4	0.8	2	-31.2	-32	6.3
2455.35	19.1	16.4	0.7	2	-31.3	-32	6.8
2455.40	18.9	16.4	0.5	2	-31.5	-32	7.7
2455.45	18.3	16.4	-0.1	2	-32.1	-32	5.8
2455.50	18.3	16.4	-0.1	2	-32.1	-32	6.2
2455.55	18.2	16.4	-0.2	2	-32.2	-32	6.8
2455.60	17.9	16.4	-0.5	2	-32.5	-32	5.2
2455.65	17.5	16.4	-0.9	2	-32.9	-32	5.6
2455.70	16.7	16.4	-1.7	2	-33.7	-32	6.3
2455.75	17.3	16.4	-1.1	2	-33.1	-32	5.8
2455.80	17.1	16.4	-1.3	2	-33.3	-32	6.8
2455.85	16.9	16.4	-1.5	2	-33.5	-32	5.2
2455.90	16.9	16.4	-1.5	2	-33.5	-32	6.2
2455.95	16.8	16.4	-1.6	2	-33.6	-32	6.4
2456.00	16.7	16.4	-1.7	2	-33.7	-32	5.8
2456.05	16.5	16.4	-1.9	2	-33.9	-32	6.2
2456.10	16.3	16.4	-2.1	2	-34.1	-32	5.9
2456.15	16.2	16.4	-2.2	2	-34.2	-32	5.8
2456.20	16	16.4	-2.4	2	-34.4	-32	6.2
2456.25	16	16.4	-2.4	2	-34.4	-32	5.6
2456.30	16.6	16.4	-1.8	2	-33.8	-32	4.2
2456.35	16.3	16.4	-2.1	2	-34.1	-32	5.1
2456.40	15.9	16.4	-2.5	2	-34.5	-32	6.3
2456.45	15.2	16.4	-3.2	2	-35.2	-32	4.9
2456.50	16.5	16.4	-1.9	2	-33.9	-32	5.1
2456.55	15.6	16.4	-2.8	2	-34.8	-32	5.8
2456.60	14.8	16.4	-3.6	2	-35.6	-32	6.4
2456.65	15.1	16.4	-3.3	2	-35.3	-32	5.9
2456.70	15	16.4	-3.4	2	-35.4	-32	5.6
2456.75	15	16.4	-3.4	2	-35.4	-32	6.1
2456.80	15	16.4	-3.4	2	-35.4	-32	7
2456.85	14.8	16.4	-3.6	2	-35.6	-32	6
2456.90	14.7	16.4	-3.7	2	-35.7	-32	5.9

2456.95	14.6	16.4	-3.8	2	-35.8	-32	5.8
2457.00	14.5	16.4	-3.9	2	-35.9	-32	6
2457.05	14.3	16.4	-4.1	2	-36.1	-32	7.5
2457.10	14.7	16.4	-3.7	2	-35.7	-32	7.2
2457.15	14.3	16.4	-4.1	2	-36.1	-32	6.8
2457.20	14	16.4	-4.4	2	-36.4	-32	7.1
2457.25	14.1	16.4	-4.3	2	-36.3	-32	6.3
2457.30	14.9	16.4	-3.5	2	-35.5	-32	5.6
2457.35	14	16.4	-4.4	2	-36.4	-32	4.5
2457.40	13.8	16.4	-4.6	2	-36.6	-32	6.6
2457.45	13.8	16.4	-4.6	2	-36.6	-32	7.4
2457.50	13.7	16.4	-4.7	2	-36.7	-32	7
2457.55	13.7	16.4	-4.7	2	-36.7	-32	7.4
2457.60	13.6	16.4	-4.8	2	-36.8	-32	9
2457.65	13.5	16.4	-4.9	2	-36.9	-32	5.3
2457.70	13.4	16.4	-5	2	-37	-32	5.6
2457.75	12.9	16.4	-5.5	2	-37.5	-32	5.2
2457.80	12.9	16.4	-5.5	2	-37.5	-32	5.9
2457.85	12.7	16.4	-5.7	2	-37.7	-32	6.2
2457.90	12.8	16.4	-5.6	2	-37.6	-32	7.2
2457.95	12.8	16.4	-5.6	2	-37.6	-32	6.7
2458.00	12.7	16.4	-5.7	2	-37.7	-32	6.7
2458.05	12.8	16.4	-5.6	2	-37.6	-32	6.7
2458.10	12.7	16.4	-5.7	2	-37.7	-32	6.1
2458.15	12.8	16.4	-5.6	2	-37.6	-32	5.7
2458.20	12.8	16.4	-5.6	2	-37.6	-32	7.2
2458.25	12.8	16.4	-5.6	2	-37.6	-32	6.6
2458.30	12.7	16.4	-5.7	2	-37.7	-32	6.4
2458.35	12.6	16.4	-5.8	2	-37.8	-32	6.6
2458.40	12.5	16.4	-5.9	2	-37.9	-32	5.2
2458.45	12.5	16.4	-5.9	2	-37.9	-32	5.6
2458.50	12.4	16.4	-6	2	-38	-32	5.4
2458.55	12.3	16.4	-6.1	2	-38.1	-32	6
2458.60	12.1	16.4	-6.3	2	-38.3	-32	5.7
2458.65	12.1	16.4	-6.3	2	-38.3	-32	6
2458.70	12	16.4	-6.4	2	-38.4	-32	5.8

2458.75	12.1	16.4	-6.3	2	-38.3	-32	6.2
2458.80	12.1	16.4	-6.3	2	-38.3	-32	7.1
2458.85	11.8	16.4	-6.6	2	-38.6	-32	5.6
2458.90	11.6	16.4	-6.8	2	-38.8	-32	4.8
2458.95	11.6	16.4	-6.8	2	-38.8	-32	6.7
2459.00	11.5	16.4	-6.9	2	-38.9	-32	7.2
2459.05	11.3	16.4	-7.1	2	-39.1	-32	6.8
2459.10	11.2	16.4	-7.2	2	-39.2	-32	6.3
2459.15	11.2	16.4	-7.2	2	-39.2	-32	6.5
2459.20	11.3	16.4	-7.1	2	-39.1	-32	7.2
2459.25	11.2	16.4	-7.2	2	-39.2	-32	6.6
2459.30	11.1	16.4	-7.3	2	-39.3	-32	4.8
2459.35	11.2	16.4	-7.2	2	-39.2	-32	6.8
2459.40	11.1	16.4	-7.3	2	-39.3	-32	5.8
2459.45	11.2	16.4	-7.2	2	-39.2	-32	6.3
2459.50	11.2	16.4	-7.2	2	-39.2	-32	5.3
2459.55	11.3	16.4	-7.1	2	-39.1	-32	7.2
2459.60	11.2	16.4	-7.2	2	-39.2	-32	6.6
2459.65	11.3	16.4	-7.1	2	-39.1	-32	6.5
2459.70	11.3	16.4	-7.1	2	-39.1	-32	6.4
2459.75	11.3	16.4	-7.1	2	-39.1	-32	7.2
2459.80	11.2	16.4	-7.2	2	-39.2	-32	6.8
2459.85	11.2	16.4	-7.2	2	-39.2	-32	7.1
2459.90	11.2	16.4	-7.2	2	-39.2	-32	6.8
2459.95	11.2	16.4	-7.2	2	-39.2	-32	5.3
2460.00	11.1	16.4	-7.3	2	-39.3	-32	7.7
2460.05	11.1	16.4	-7.3	2	-39.3	-32	4.8
2460.10	11.2	16.4	-7.2	2	-39.2	-32	6.2
2460.15	11.3	16.4	-7.1	2	-39.1	-32	5.6
2460.20	11.4	16.4	-7	2	-39	-32	4.6
2460.25	11.4	16.4	-7	2	-39	-32	6.5
2460.30	11.4	16.4	-7	2	-39	-32	5.5
2460.35	11.3	16.4	-7.1	2	-39.1	-32	6.5
2460.40	11.3	16.4	-7.1	2	-39.1	-32	6.3
2460.45	11.3	16.4	-7.1	2	-39.1	-32	6.7
2460.50	11.5	16.4	-6.9	2	-38.9	-32	5.4

2460.55	11.3	16.4	-7.1	2	-39.1	-32	5.6
2460.60	11.1	16.4	-7.3	2	-39.3	-32	3.6
2460.65	11.4	16.4	-7	2	-39	-32	5.6
2460.70	11.7	16.4	-6.7	2	-38.7	-32	6.1
2460.75	11.7	16.4	-6.7	2	-38.7	-32	5.9
2460.80	11.8	16.4	-6.6	2	-38.6	-32	6
2460.85	11.7	16.4	-6.7	2	-38.7	-32	5.8
2460.90	11.5	16.4	-6.9	2	-38.9	-32	4.3
2460.95	11.7	16.4	-6.7	2	-38.7	-32	5.2
2461.00	11.8	16.4	-6.6	2	-38.6	-32	5.8
2461.05	11.8	16.4	-6.6	2	-38.6	-32	4.7
2461.10	11.7	16.4	-6.7	2	-38.7	-32	5.4
2461.15	11.7	16.4	-6.7	2	-38.7	-32	5.2
2461.20	11.7	16.4	-6.7	2	-38.7	-32	4.6
2461.25	11.7	16.4	-6.7	2	-38.7	-32	4.8
2461.30	11.6	16.4	-6.8	2	-38.8	-32	4.5
2461.35	11.7	16.4	-6.7	2	-38.7	-32	5.8
2461.40	11.8	16.4	-6.6	2	-38.6	-32	5.5
2461.45	11.8	16.4	-6.6	2	-38.6	-32	6.4
2461.50	11.9	16.4	-6.5	2	-38.5	-32	6.8
2461.55	11.9	16.4	-6.5	2	-38.5	-32	6
2461.60	12.1	16.4	-6.3	2	-38.3	-32	5.8
2461.65	11.9	16.4	-6.5	2	-38.5	-32	6.4
2461.70	12.1	16.4	-6.3	2	-38.3	-32	7.5
2461.75	11.9	16.4	-6.5	2	-38.5	-32	7.2
2461.80	11.7	16.4	-6.7	2	-38.7	-32	7.8
2461.85	11.6	16.4	-6.8	2	-38.8	-32	6.7
2461.90	11.4	16.4	-7	2	-39	-32	7.6
2461.95	11.6	16.4	-6.8	2	-38.8	-32	6.2
2462.00	11.4	16.4	-7	2	-39	-32	5.8
2462.05	11.4	16.4	-7	2	-39	-32	6.5
2462.10	11	16.4	-7.4	2	-39.4	-32	5.7
2462.15	11.4	16.4	-7	2	-39	-32	5.8
2462.20	11.6	16.4	-6.8	2	-38.8	-32	6.2
2462.25	11.7	16.4	-6.7	2	-38.7	-32	6.4
2462.30	11.9	16.4	-6.5	2	-38.5	-32	6.2

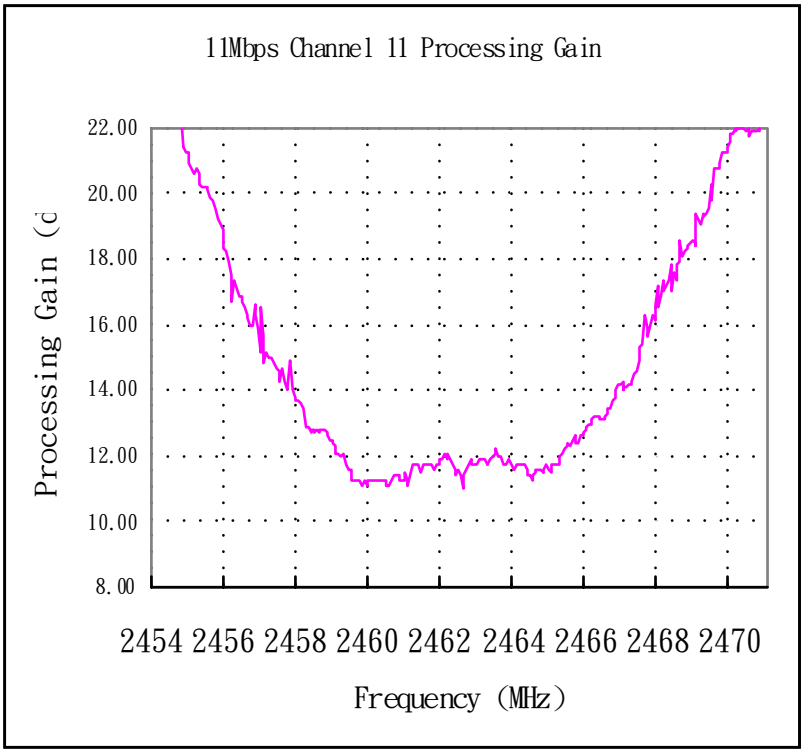
2462.35	11.8	16.4	-6.6	2	-38.6	-32	5.7
2462.40	11.7	16.4	-6.7	2	-38.7	-32	4.5
2462.45	11.8	16.4	-6.6	2	-38.6	-32	6.8
2462.50	11.9	16.4	-6.5	2	-38.5	-32	7.4
2462.55	11.9	16.4	-6.5	2	-38.5	-32	6.5
2462.60	11.9	16.4	-6.5	2	-38.5	-32	6.3
2462.65	11.9	16.4	-6.5	2	-38.5	-32	6.7
2462.70	11.9	16.4	-6.5	2	-38.5	-32	5.8
2462.75	11.8	16.4	-6.6	2	-38.6	-32	5.8
2462.80	11.8	16.4	-6.6	2	-38.6	-32	6.8
2462.85	11.9	16.4	-6.5	2	-38.5	-32	5.4
2462.90	12	16.4	-6.4	2	-38.4	-32	4.8
2462.95	12.1	16.4	-6.3	2	-38.3	-32	5.8
2463.00	12.2	16.4	-6.2	2	-38.2	-32	6
2463.05	12.2	16.4	-6.2	2	-38.2	-32	6.9
2463.10	12	16.4	-6.4	2	-38.4	-32	7.3
2463.15	12	16.4	-6.4	2	-38.4	-32	5.7
2463.20	11.8	16.4	-6.6	2	-38.6	-32	5.9
2463.25	11.8	16.4	-6.6	2	-38.6	-32	6.2
2463.30	11.8	16.4	-6.6	2	-38.6	-32	5.6
2463.35	11.9	16.4	-6.5	2	-38.5	-32	6.2
2463.40	11.7	16.4	-6.7	2	-38.7	-32	5.2
2463.45	11.7	16.4	-6.7	2	-38.7	-32	6.2
2463.50	11.6	16.4	-6.8	2	-38.8	-32	7.5
2463.55	11.6	16.4	-6.8	2	-38.8	-32	6.3
2463.60	11.7	16.4	-6.7	2	-38.7	-32	5.8
2463.65	11.7	16.4	-6.7	2	-38.7	-32	6.3
2463.70	11.7	16.4	-6.7	2	-38.7	-32	7.9
2463.75	11.8	16.4	-6.6	2	-38.6	-32	6.4
2463.80	11.8	16.4	-6.6	2	-38.6	-32	7.2
2463.85	11.6	16.4	-6.8	2	-38.8	-32	5.5
2463.90	11.4	16.4	-7	2	-39	-32	6.9
2463.95	11.4	16.4	-7	2	-39	-32	6.8
2464.00	11.3	16.4	-7.1	2	-39.1	-32	5.5
2464.05	11.4	16.4	-7	2	-39	-32	5.6
2464.10	11.5	16.4	-6.9	2	-38.9	-32	5.3

2464.15	11.6	16.4	-6.8	2	-38.8	-32	6.8
2464.20	11.6	16.4	-6.8	2	-38.8	-32	7.5
2464.25	11.6	16.4	-6.8	2	-38.8	-32	5.4
2464.30	11.5	16.4	-6.9	2	-38.9	-32	4.5
2464.35	11.6	16.4	-6.8	2	-38.8	-32	6.8
2464.40	11.8	16.4	-6.6	2	-38.6	-32	6.4
2464.45	11.6	16.4	-6.8	2	-38.8	-32	6.3
2464.50	11.5	16.4	-6.9	2	-38.9	-32	6.2
2464.55	11.6	16.4	-6.8	2	-38.8	-32	6.4
2464.60	11.8	16.4	-6.6	2	-38.6	-32	6.8
2464.65	11.7	16.4	-6.7	2	-38.7	-32	5.8
2464.70	11.7	16.4	-6.7	2	-38.7	-32	5.2
2464.75	11.8	16.4	-6.6	2	-38.6	-32	5.4
2464.80	12	16.4	-6.4	2	-38.4	-32	4.3
2464.85	12.1	16.4	-6.3	2	-38.3	-32	5.7
2464.90	12.2	16.4	-6.2	2	-38.2	-32	6.8
2464.95	12.3	16.4	-6.1	2	-38.1	-32	6.8
2465.00	12.4	16.4	-6	2	-38	-32	7.2
2465.05	12.4	16.4	-6	2	-38	-32	6.3
2465.10	12.3	16.4	-6.1	2	-38.1	-32	6.5
2465.15	12.5	16.4	-5.9	2	-37.9	-32	6.9
2465.20	12.6	16.4	-5.8	2	-37.8	-32	7.1
2465.25	12.4	16.4	-6	2	-38	-32	7.2
2465.30	12.4	16.4	-6	2	-38	-32	7
2465.35	12.6	16.4	-5.8	2	-37.8	-32	7.4
2465.40	12.6	16.4	-5.8	2	-37.8	-32	6.6
2465.45	12.7	16.4	-5.7	2	-37.7	-32	7
2465.50	12.8	16.4	-5.6	2	-37.6	-32	6.5
2465.55	12.9	16.4	-5.5	2	-37.5	-32	7.4
2465.60	13	16.4	-5.4	2	-37.4	-32	7
2465.65	13	16.4	-5.4	2	-37.4	-32	6.8
2465.70	13.1	16.4	-5.3	2	-37.3	-32	7.1
2465.75	13.2	16.4	-5.2	2	-37.2	-32	7.1
2465.80	13.2	16.4	-5.2	2	-37.2	-32	6.6
2465.85	13.2	16.4	-5.2	2	-37.2	-32	6.7
2465.90	13.1	16.4	-5.3	2	-37.3	-32	6.9

2465.95	13.1	16.4	-5.3	2	-37.3	-32	7.2
2466.00	13.1	16.4	-5.3	2	-37.3	-32	7.3
2466.05	13.2	16.4	-5.2	2	-37.2	-32	6.9
2466.10	13.3	16.4	-5.1	2	-37.1	-32	6.8
2466.15	13.4	16.4	-5	2	-37	-32	7
2466.20	13.5	16.4	-4.9	2	-36.9	-32	6.7
2466.25	13.7	16.4	-4.7	2	-36.7	-32	6.2
2466.30	13.8	16.4	-4.6	2	-36.6	-32	6.5
2466.35	14	16.4	-4.4	2	-36.4	-32	7.3
2466.40	14.2	16.4	-4.2	2	-36.2	-32	7.8
2466.45	14.2	16.4	-4.2	2	-36.2	-32	6.8
2466.50	14.3	16.4	-4.1	2	-36.1	-32	6.3
2466.55	14	16.4	-4.4	2	-36.4	-32	7.3
2466.60	14.1	16.4	-4.3	2	-36.3	-32	6.6
2466.65	14.1	16.4	-4.3	2	-36.3	-32	6.5
2466.70	14.2	16.4	-4.2	2	-36.2	-32	7.3
2466.75	14.2	16.4	-4.2	2	-36.2	-32	7.9
2466.80	14.3	16.4	-4.1	2	-36.1	-32	6.6
2466.85	14.5	16.4	-3.9	2	-35.9	-32	7.4
2466.90	14.6	16.4	-3.8	2	-35.8	-32	6.2
2466.95	14.9	16.4	-3.5	2	-35.5	-32	6.9
2467.00	15.1	16.4	-3.3	2	-35.3	-32	6.8
2467.05	15.3	16.4	-3.1	2	-35.1	-32	6.5
2467.10	15.4	16.4	-3	2	-35	-32	7.3
2467.15	16.3	16.4	-2.1	2	-34.1	-32	5.7
2467.20	15.9	16.4	-2.5	2	-34.5	-32	5.8
2467.25	15.7	16.4	-2.7	2	-34.7	-32	5.2
2467.30	16	16.4	-2.4	2	-34.4	-32	6.1
2467.35	16.3	16.4	-2.1	2	-34.1	-32	6.3
2467.40	16.1	16.4	-2.3	2	-34.3	-32	6.4
2467.45	16.6	16.4	-1.8	2	-33.8	-32	7.1
2467.50	17.2	16.4	-1.2	2	-33.2	-32	5.8
2467.55	16.5	16.4	-1.9	2	-33.9	-32	6.3
2467.60	16.9	16.4	-1.5	2	-33.5	-32	6.5
2467.65	17.3	16.4	-1.1	2	-33.1	-32	7.3
2467.70	17	16.4	-1.4	2	-33.4	-32	5.9

2467.75	17.2	16.4	-1.2	2	-33.2	-32	5.8
2467.80	17.3	16.4	-1.1	2	-33.1	-32	6.3
2467.85	17.8	16.4	-0.6	2	-32.6	-32	6.7
2467.90	17	16.4	-1.4	2	-33.4	-32	6.5
2467.95	17.6	16.4	-0.8	2	-32.8	-32	7.3
2468.00	17.3	16.4	-1.1	2	-33.1	-32	6.2
2468.05	17.8	16.4	-0.6	2	-32.6	-32	5.1
2468.10	17.9	16.4	-0.5	2	-32.5	-32	5.5
2468.15	18.6	16.4	0.2	2	-31.8	-32	5.7
2468.20	18.1	16.4	-0.3	2	-32.3	-32	6
2468.25	18.2	16.4	-0.2	2	-32.2	-32	5.9
2468.30	18.3	16.4	-0.1	2	-32.1	-32	6.1
2468.35	18.4	16.4	0	2	-32	-32	7.3
2468.40	18.5	16.4	0.1	2	-31.9	-32	7.1
2468.45	18.6	16.4	0.2	2	-31.8	-32	6.5
2468.50	18.5	16.4	0.1	2	-31.9	-32	6.3
2468.55	18.4	16.4	0	2	-32	-32	6.1
2468.60	19.4	16.4	1	2	-31	-32	5.5
2468.65	19.2	16.4	0.8	2	-31.2	-32	5.8
2468.70	19	16.4	0.6	2	-31.4	-32	5.6
2468.75	19.4	16.4	1	2	-31	-32	5.7
2468.80	19.3	16.4	0.9	2	-31.1	-32	5.7
2468.85	19.4	16.4	1	2	-31	-32	5.9
2468.90	19.5	16.4	1.1	2	-30.9	-32	5.6
2468.95	20.3	16.4	1.9	2	-30.1	-32	6.1
2469.00	20	16.4	1.6	2	-30.4	-32	6.4
2469.05	19.8	16.4	1.4	2	-30.6	-32	6.3
2469.10	20.8	16.4	2.4	2	-29.6	-32	5.6
2469.15	20.8	16.4	2.4	2	-29.6	-32	6.4
2469.20	20.8	16.4	2.4	2	-29.6	-32	7.4
2469.25	20.9	16.4	2.5	2	-29.5	-32	6.9
2469.30	21.2	16.4	2.8	2	-29.2	-32	6.7
2469.35	21.2	16.4	2.8	2	-29.2	-32	6.7
2469.40	21.2	16.4	2.8	2	-29.2	-32	6.7
2469.45	21.4	16.4	3	2	-29	-32	7.6
2469.50	21.6	16.4	3.2	2	-28.8	-32	7.7

2469.55	21.8	16.4	3.4	2	-28.6	-32	7.1
2469.60	21.8	16.4	3.4	2	-28.6	-32	6.3
2469.65	22	16.4	3.6	2	-28.4	-32	6.9
2469.70	21.9	16.4	3.5	2	-28.5	-32	6.7
2469.75	22	16.4	3.6	2	-28.4	-32	6.5
2469.80	22	16.4	3.6	2	-28.4	-32	7.1
2469.85	22	16.4	3.6	2	-28.4	-32	7.8
2469.90	22	16.4	3.6	2	-28.4	-32	7.4
2469.95	21.9	16.4	3.5	2	-28.5	-32	6.5
2470.00	22	16.4	3.6	2	-28.4	-32	6.5
2470.05	21.7	16.4	3.3	2	-28.7	-32	7
2470.10	21.9	16.4	3.5	2	-28.5	-32	6.7
2470.15	21.9	16.4	3.5	2	-28.5	-32	6.6
2470.20	21.9	16.4	3.5	2	-28.5	-32	7.8
2470.25	21.9	16.4	3.5	2	-28.5	-32	6.9
2470.30	22	16.4	3.6	2	-28.4	-32	6.5
2470.35	42.1	16.4	23.7	2	-8.3	-32	6.9
2470.40	22.1	16.4	3.7	2	-28.3	-32	6.7
2470.45	22.1	16.4	3.7	2	-28.3	-32	6.3
2470.50	22.3	16.4	3.9	2	-28.1	-32	7.1
Processing Gain (dB) @20th Percentile=				11.7			


11Mbps Channel 11 Processing Gain
Processing Gain (c
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
2454 2456 2458 2460 2462 2464 2466 2468 2470
Frequency (MHz)

Processing gain of Direct Sequence Spread Spetrum

Product name: Wireless Local Area Network PC Card

Tested by: SENAO INTERNATIONAL CO., LTD.

Prepared by: 2FL., No. 531, Chung Chen Rd., Hsin-Tien City, Taipei Hsien, Taiwan, R.O.C.

Date: Jan 15, 2000

FCC requirements: The processing gain of a direct sequence system shall be at least 10dB. The processing gain shall be determined from the ratio in dB of the signal-to-noise ratio with the system spreading code turned off to the signal-to-noise ratio with the system spreading code turned on, as measured at the demodulated output of the receiver.

This document contains theoretical calculation and test setup, procedure, measurement data and report.

Test equipment:

Hp8593 Spectrum analyzer
Hp ESG D3000A signal generator
Hp4418A Power meter
Hp8493A attenuator 1dB steps
Hp8495D attenuator 10dB steps
Hp11636BB power spiltter
Notebook PC X2

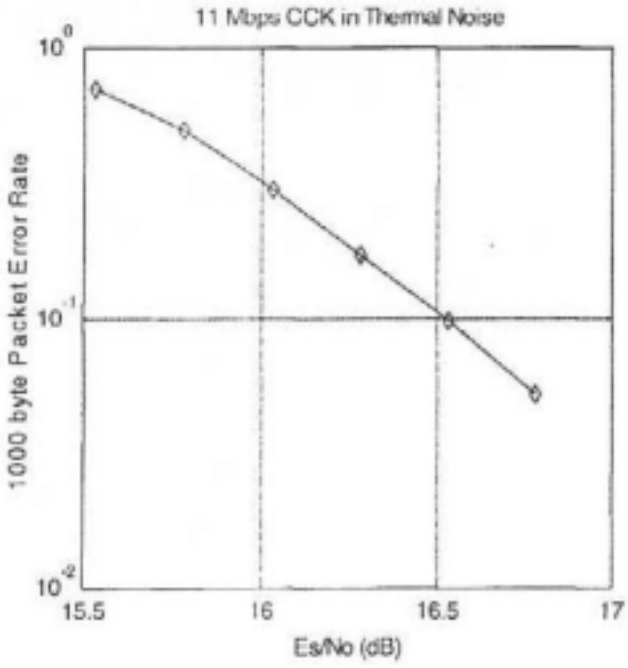
Theoretical calculation: The Processing gain is related to be jamming margin as follows:

$$Gp=(S/N)_{output} + (J/S) + L_{sys}$$

Where $BER_{reference}$ is the reference bit error ratio with its corresponding, theoretical output signal to noise ratio per symbol, $(S/N)_{output}$, (J/S) is the jamming margin(jamming signal power relative to desired signal power), and L_{sys} is the system losses.

- For 5.5Mbps and 11Mbps case: The HFA 3861A direct sequence spread spectrum baseband processor use CCK modulation which is a form of M-ary Orthogonal Keying. The Probability of error for generalized M-ary orthogonal signaling using coherent demodulation is given by:

$$P_e=1-P_{c1}=1-\frac{1}{\sqrt{2\pi}}\int_{\frac{S_{01}}{N_o}}^{\infty}\left[2\left(1-Q\left\{z+\sqrt{2\frac{E_b}{\eta}}\right\}\right)\right]^{\frac{M}{2}-1}e^{\left\{-\frac{z^2}{2}\right\}}dz$$



So the FER performance curve is given by[1] as left graph:

Therefore:

Gp= (Es/No)o+ (J/S) + Lsys=16.4+2.0+(J/S)

Gp=18.4+(J/S) must >10dB

For the case of the HFA3861A, the bit rates are 1,2, 5.5 and 11Mbps. The corresponding symbol rates are 1, 1, 1.375 and 1.375 MSPS. The chip rate is always 11MCps, so the ratio of chip rate to symbol rate is 11.:1 for the1 and 2Mbps and 8:1 for 5.5 and 11Mbps rates. Since the symbol rate to bit rate is less than 10 for the higher rates, we supply the theoretical processing gain and coding are utilized. This is a reasonable in that they cannot be sperated in the demodulation process. If a separable FEC coding scheme were used, we would not be comfortable making this assertion.

As can be seen from the curve of figure 1, the Es/No is 16.4dB at the PER of 8%. It is well know that the Eb/No of BPSK is 9.6dB for 1e-5BER, so therefore the coding gain of CCK over BPSK is 2.2dB. We add this to the processing gain of 9B to get 11.2dB overall processing gain for the CW jamming test.

Taking the calculation above, if the (J/S)>-8.4dB then the equipment passes the CW jamming test.

- For 1&2Mbps case: The modulation is either DBPSK or DQPSK for 1and 2Mbps. With differential coding, there is and error extension factor of 2 which from the fact that if one symbol is error, then the next will be demodulated in error too since it's phase is dependant on the change of phase from symbol to symbol. In DBPSK, this result is a simple factor of two in BER. With DQPSK, the picture is a little muddied in that a symbol error may cause one or two bit errors since two bits are carried per symbol. From the book of Fig.7.2, Viterbi, A.J. Principles of Coherent Communications, Page 192 (New York; McGraw-Hill, 1996), the Eb/No of BPSK is 9.6dB. When operating DQPSK at 2Mbps, the Eb/No remains essentially the same, but the Es/No goes up by 3dB. So the (S/N)o is 12.6.

Test procedure:

Obtain the simplex link shown. Perform all independent instrumentation calibration prior to this procedure. Set operating levels using fixed and variable attenuator in system to meet the following objectives:

1. Signal Power at receiver is approximately –60dBm.
2. Signal Power at power meter between –20 and –30dBm.
3. Use spectrum analyzer to monitor test.
4. Ensure that CW jammer generator RF output is disabled and measure the power at the power meter port using Hp4418B power meter. This is relative power, Sr.
5. Disable TX and set CW jammer output frequency equal to the carrier frequency and enable generator output. Set reference CW jammer power level at power meter port 8.4dB below Sr.
6. Disable CW jammer and re-establish Link. FER test should be essentially error free.
7. Enable the CW jammer at the reference power level and verify that FER at the reference power level and verify that FER test indicate less than 8%.
8. Alternatively, adjust the CW jammer level to that which causes 8% FER.
9. Repeat Step 7 for uniform steps in frequency increments of 50KHz across the receiver passband with the CW jammer. In this case, the receiver passband is ± 8.5MHz

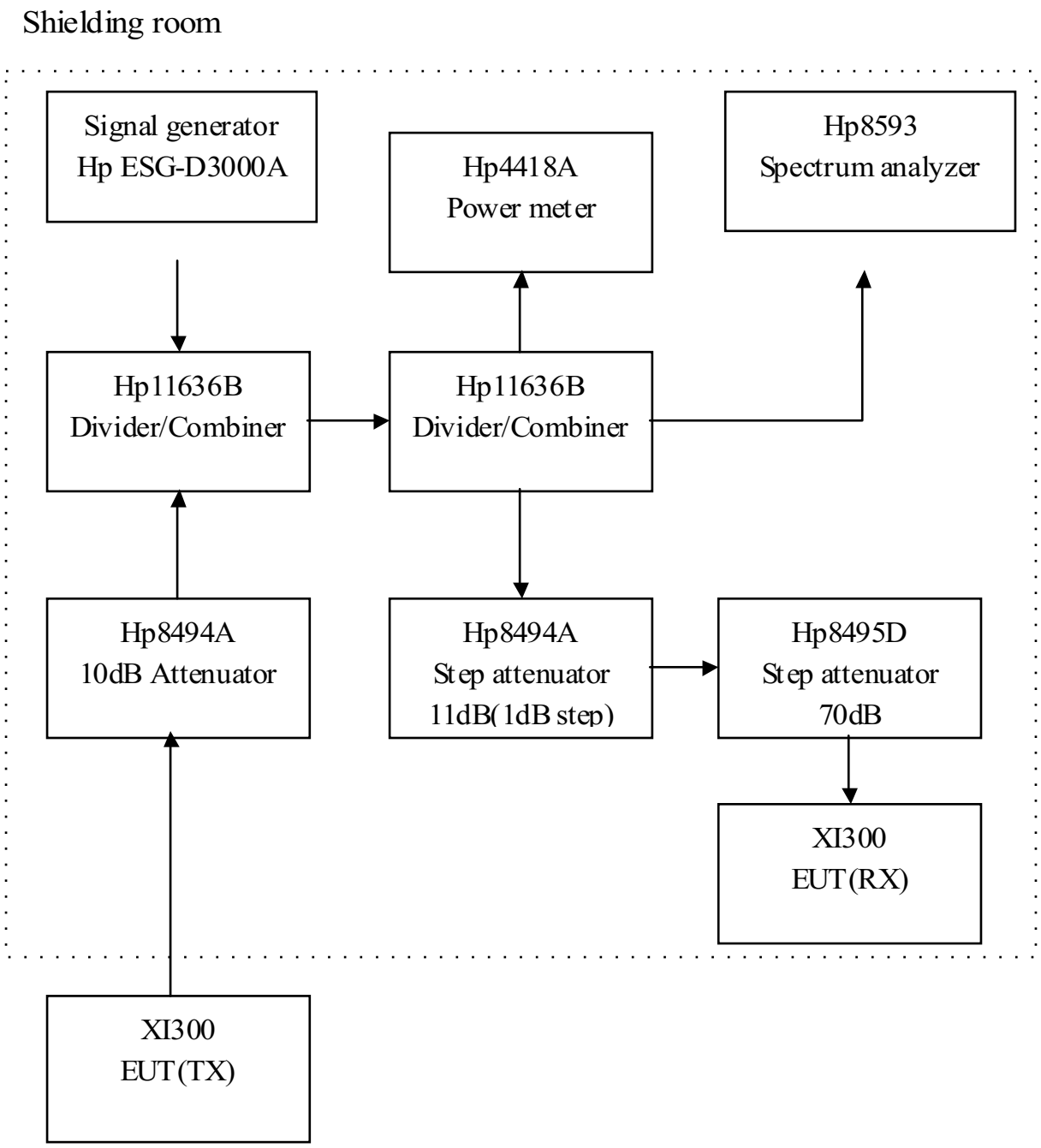
Test setup: as shown at next page

Processing gain test result summary:

Frequency channel	Frequency	Data rate(Mbps)	Gp(dB)
1	2412MHz	11	11.5
6	2437MHz	11	10.6
11	2462MHz	11	11.7
1	2412MHz	2	12
6	2437MHz	2	12.6
11	2462MHz	2	11.9

Reference

[1]. Intersil processing gain test document(Attached file).



Processing gain test setup