

PEP Testing Laboratory

12-3Fl, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chih,

Taipei Hsien, Taiwan, R. O. C.

TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

RFI / EMI TEST REPORT

APPLICANT : OMNIDIRECTIONAL CONTROL TECHNOLOGY INC.

E U T Type : USB 2.0 Wireless-G LAN Dock

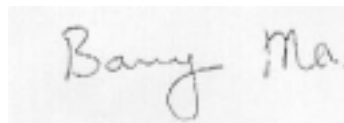
MODEL NO. : DK211, DK212, DK213

FCC ID : SYC0B390C02

REGULATION : CFR 47 , Part 15 Subpart C

TEST SITE : PEP Testing Laboratory

TEST ENGINEER :



TEST DATE : OCT. 19, 2004

ISSUED DATE : DEC. 09, 2004

REPORT NO. : E930665

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VERIFICATION

WE HEREBY VERIFY THAT:

The EUT listed below has completed RFI testing by PEP Testing Laboratory and it does comply with the limitation of FCC Part 15, Section 15.247 limitations .

The tested configurations and the facility complies with the radiated and AC line conducted test site criteria in ANSI C63 .4 - 2001.

Any data in this RFI report is “ **reference** ” only .

APPLICANT : **OMNIDIRECTIONAL CONTROL TECHNOLOGY INC.**
PRODUCT : **USB 2.0 Wireless-G LAN Dock**
FCC ID : **SYC0B390C02**
MODEL : **DK211, DK212, DK213**



M. Y. TSUI / President

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I . General Information

The EUT is USB 2.0 Wireless-G LAN Dock, FCC ID: SYC0B390C02, model DK211, DK212 and DK213. These models have identical electrical design and construction except that they are different in enclosure appearance, PCB color of the wireless LAN module and two additional LED pins of the wireless LAN module. From technical point of view, we only took the worst-case model DK212 for test. The EUT that is compatible with USB 2.0 interface comes with wireless LAN function, three USB 2.0 ports, two PS2 ports, one parallel port and one RS232 port for related device configurations. The working frequency is 2412MHz-2462MHz. We tested channel 1, channel 6 and channel 11 which is controlled by applicant's software: ZD1211EVL program. AC-DC adaptor supplies EUT DC 5V from AC 100V-240V. For more detail information about the EUT, please refer to the user's manual.

1.1 Description of EUT

EUT Type	:	USB 2.0 Wireless-G LAN Dock
FCC ID	:	SYC0B390C02
EUT Model No.	:	DK211, DK212, DK213
Frequency Range	:	2.412~2.462GHz
Support Channel	:	11 channels
Modulation	:	CCK ; OFDM
Antenna Type	:	Comply with FCC Part 15, Section 15.203;
Power Supply	:	Manufacturer: DVE
		Model No. : DSA-0101F-05A
		Input: AC 100~240V, 0.3A
		Output: DC 5V, 2A
Power Cord	:	N/A

1.2 Supporting Devices for EUT testing

1. Personal Computer (PC3)

CPU : Intel P4 Socket 478 1.6GHz

FCC ID : Declaration of Conformity(DoC)

Manufacturer : LEMEL

Model Number : LMIH1A2

Power Supply : Switching

Power Cord : Non-Shielded, Detachable, 1.8m

Data Cable : N/A

2. Monitor (MON1 15")

FCC ID : Declaration of Conformity(DoC)

Manufacturer : SAMSUNG

Model Number : 550S

Power Supply : Switching

Power Cord : Non-Shielded, Detachable, 1.8m

Data Cable : 1 > Shielded , Non-detachable, 1.2m

2 > Back Shell : Metal

3. Printer (PRN1) × 2

FCC ID : B94C2642X

Manufacturer : Hewlett-Packard

Model Number : C2642E

Power Supply : Linear, 30Vdc O/P

Power Cable : Non-Shielded , Detachable, 1.8m

Data Cable : 1 > Shielded , Detachable, 1.2m

2 > Back Shell : Metal

4. Modem (MOD1) × 3

FCC ID : IFAXDM1414

Manufacturer : ACEEX

Model Number : 1414

Power Supply : Linear, 9Vac O/P

Power Cable : Non-Shielded , Detachable, 1.7m

Data Cable : 1 > Shielded , Detachable, 1m

2 > Back Shell : Metal

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5. Keyboard (KBS1 PS/2) × 2

FCC ID : E5XKB5121WTH0110

Manufacturer : BTC

Model Number : 5121W

Power Supply : +5Vdc from PS2 of PC

Power Cord : N/A

Data Cable : 1 > Shielded , Non-detachable,1.6m

2 > Back Shell : Metal

6. Mouse (MOUS/1 PS/2) × 2

FCC ID : DZL211106

Manufacturer : LOGITECH

Model Number : M-S43

Power Supply : +5Vdc from PS2 of PC

Power Cord : N/A

Data Cable : 1 > Shielded , Non-detachable,1.8m

2 > Back Shell : Metal

7. External Hard Disk × 3 (USB 2.0 HD)

FCC ID : N/A

Manufacturer : TeraSys

Model Number : F12-U

Power Supply : DC +12V/1.25A,
Non-Shielded , 1.5m (Core)

Power Cord : N/A

Data Cable : 1 > Shielded , detachable,1.7m

2 > Back Shell : N/A

8. USB 2.0 Card

Manufacturer : HEISEI

Manufacturer : N/A

1.3 EUT Test Setup Configuration

(A) The EUT is USB 2.0 Wireless-G LAN Dock, FCC ID: SYC0B390C02, model DK211, DK212 and DK213. These models have identical electrical design and construction except that they are different in enclosure appearance, PCB color of the wireless LAN module and two additional LED pins of the wireless LAN module. From technical point of view, we only took the worst-case model DK212 for test. The EUT that is compatible with USB 2.0 interface comes with wireless LAN function, three USB 2.0 ports, two PS2 ports, one parallel port and one RS232 port for related device configurations. The working frequency is 2412MHz-2462MHz. We tested channel 1, channel 6 and channel 11 which is controlled by applicant's software: ZD1211EVL program. AC-DC adaptor supplies EUT DC 5V from AC 100V-240V. For more detail information about the EUT, please refer to the user's manual.

(B) Setup Method: According to the basic use of EUT, the EUT was setup by the following configuration steps for test.

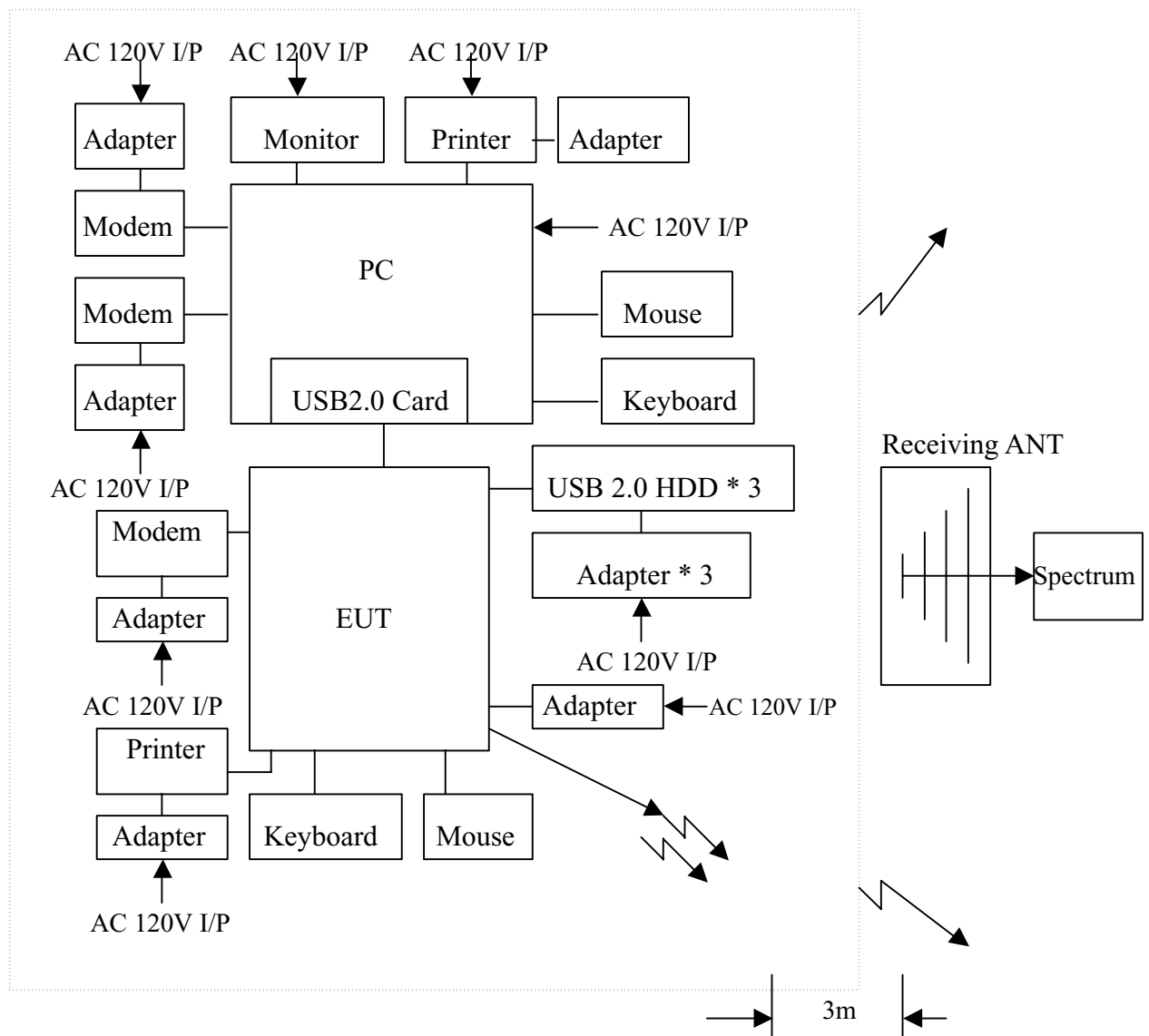
(A) Interconnect EUT and PC USB 2.0 ports.

(B) Install keyboard, mouse, three external USB 2.0 hard disks, printer and modem on EUT PS2 ports, USB 2.0 ports, parallel port and RS232 port, respectively.

All corresponding peripherals to PC and EUT I/O ports were set to proceed with test. The test was respectively carried out on the operational conditions of Tx-On mode: continuous transmission state for EUT channel 1, channel 6 and channel 11. The worst-case test result of each test mode was recorded and provided in this report.

(C) At the frequencies where the peak values of the emission exceeded the quasi-peak limit, the emissions were also measured with the quasi-peak detectors. The average detector also measured the emission either (A) quasi-peak values were under quasi-peak limit but exceeded average limit, or (B) peak values were under quasi-peak limit but exceeded average limit.

1.4 Channels Verification



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Frequency Range : 2.412 GHz to 2.462 GHz

Channel Number	Frequency (GHz)	Channel Number	Frequency (GHz)
1	2.412	11	2.462
2	2.417		
3	2.422		
4	2.427		
5	2.432		
6	2.437		
7	2.442		
8	2.447		
9	2.452		
10	2.457		

Note :

1. All channels located in the frequency range as below :

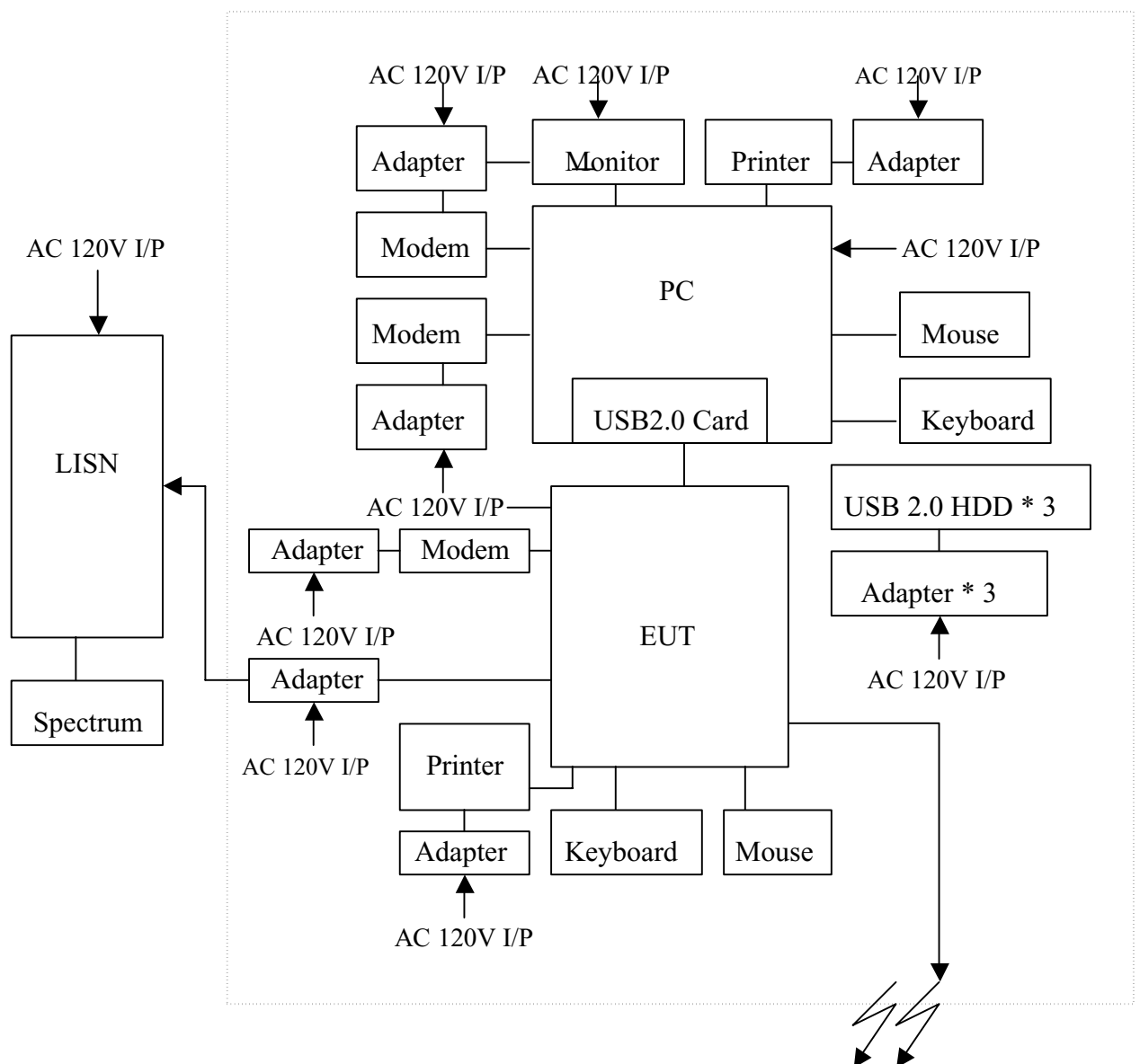
2.4 GHz --- 2.4835 GHz ☒ Yes ☐ No

Typical Channel for testing :

Channel	Channel Number	Frequency (GHz)
Top	1	2.412
Middle	6	2.437
Bottom	11	2.462

II. 15.207 Power Line Conducted Emission Test

2.1 Testing Description



2.2 Software Using

The driver of “ZD1211.exe” is used to select the support channel as mentioned on section 1.3 (b) listed above.

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REPORT NO. : E930665

2.3 Test Result

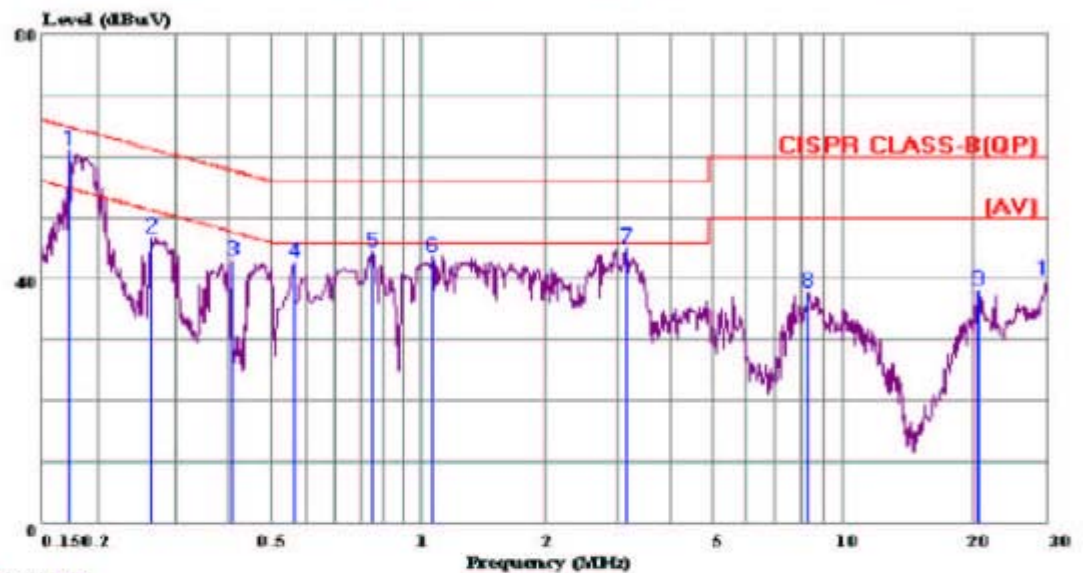
EUT Model No. DK212 (LINE)

Detector : Peak Value



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Data#: 893 File#: EN55022-B{QP}.EMI Date: 2004-10-19 Time: 17:02:57



Trace: 893

Site : Shih-Chi : Conduction No.1{Gene}
Condition: CISPR CLASS-B(QP) LISN.L(16A) LINE
eut : E930665
power : AC 120V 60Hz
memo : Peak Value
: TX ON

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.172	61.08	-3.78	64.86	60.78	0.20	0.10	
2	0.264	46.66	-14.63	61.29	46.29	0.20	0.17	
3	0.406	42.92	-14.81	57.73	42.62	0.20	0.10	
4	0.564	42.77	-13.23	56.00	42.44	0.20	0.13	
5	0.853	44.35	-11.65	56.00	44.00	0.20	0.15	
6	1.166	43.71	-12.29	56.00	43.31	0.20	0.20	
7	3.258	45.12	-10.88	56.00	44.69	0.20	0.23	
8	8.456	37.98	-22.02	60.00	37.40	0.28	0.30	
9	20.594	38.06	-21.94	60.00	37.04	0.62	0.40	
10	29.841	39.93	-20.07	60.00	38.63	0.80	0.50	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

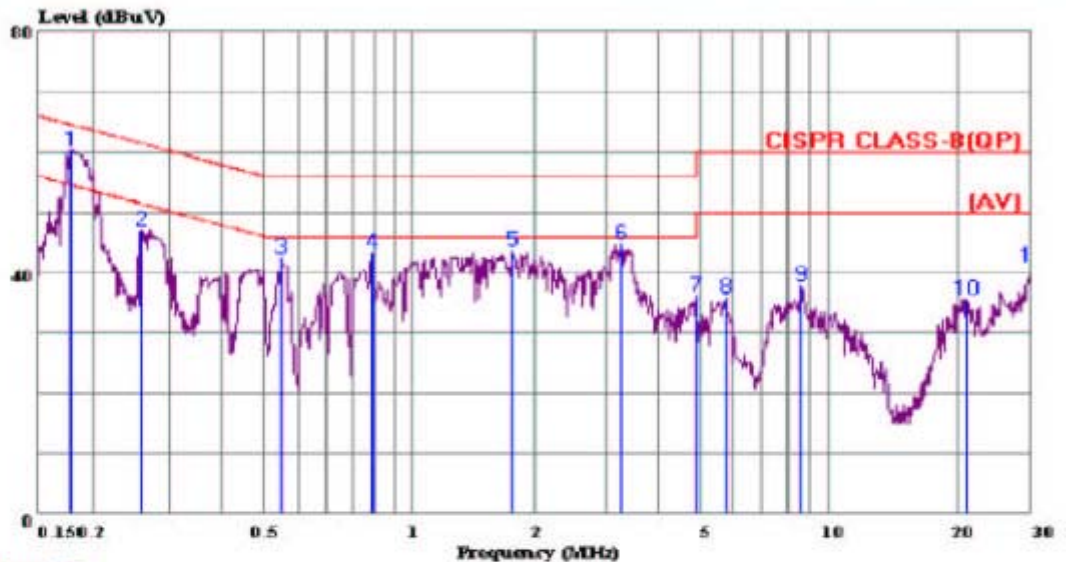
EUT Model No.: DK212 (NEUTRAL)

Detector : Peak Value



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Data#: 888 File#: EN55022-B(QP).EMI Date: 2004-10-19 Time: 16:54:27



Trace: 887
Site : Shih-Chi : Conduction No.1(Gene)
Condition: CISPR CLASS-B(QP) LISN.N(16A) NEUTRAL
eut : E930665
power : AC 120V 60Hz
memo : Peak Value
: TX ON

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.180	60.19	-4.31	64.50	59.89	0.20	0.10	
2	0.260	46.98	-14.44	61.42	46.60	0.20	0.18	
3	0.546	42.51	-13.49	56.00	42.16	0.20	0.15	
4	0.890	43.30	-12.70	56.00	42.91	0.20	0.19	
5	1.878	43.45	-12.55	56.00	43.05	0.20	0.20	
6	3.364	44.76	-11.24	56.00	44.32	0.20	0.24	
7	4.978	36.04	-19.96	56.00	35.52	0.22	0.30	
8	5.867	35.76	-24.24	60.00	35.31	0.24	0.21	
9	8.776	37.71	-22.29	60.00	37.12	0.29	0.30	
10	21.147	35.59	-24.41	60.00	34.54	0.65	0.40	
11	30.000	40.94	-19.06	60.00	39.64	0.80	0.50	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

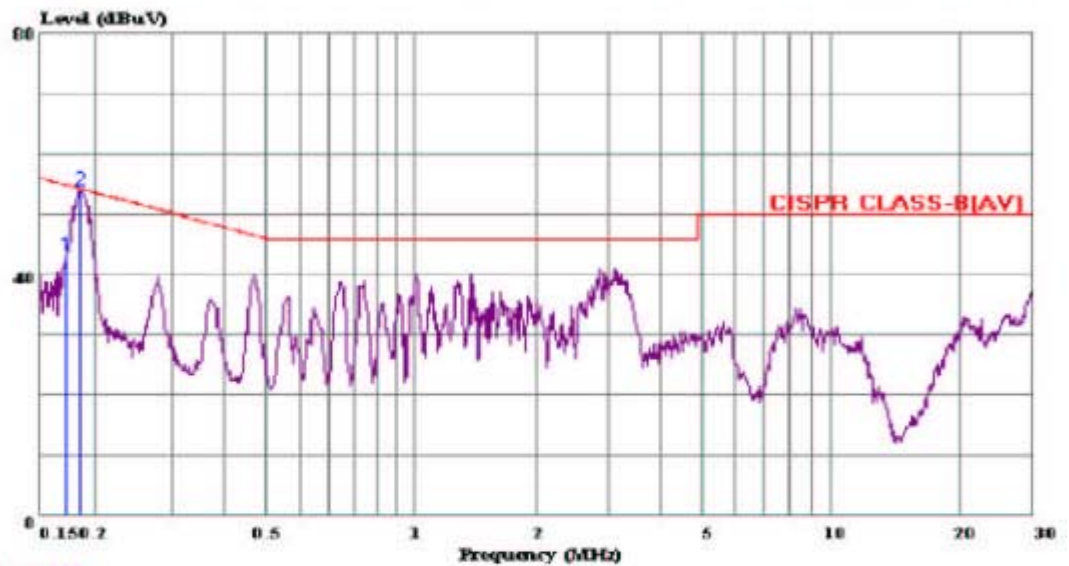
EUT Model No.: DK212 (LINE)

Detector : Average Value



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Data#: 132 File#: EN55022-B(AV).EMI Date: 2004-10-19 Time: 17:04:27



Trace: 131

Site : Shih-Chi : Conduction No.1(Gene)
Condition: CISPR CLASS-B(AV) LISN.L(16A) LINE
eut : E930665
power : AC 120V 60Hz
memo : Average Value
: TX ON

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.172	42.93	-11.93	54.86	42.63	0.20	0.10	
2	0.185	53.97	-0.27	54.24	53.67	0.20	0.10	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

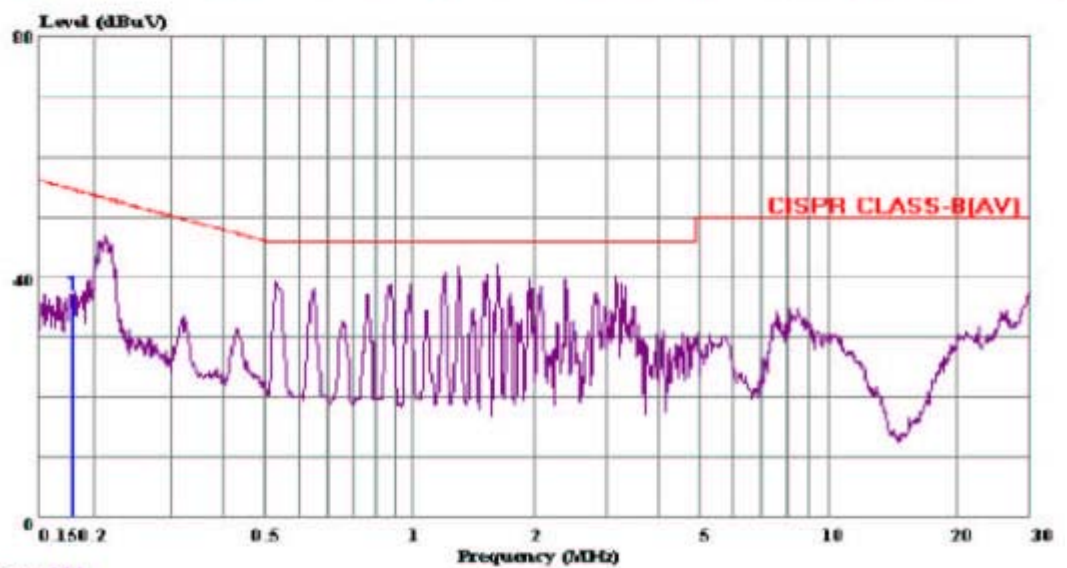
EUT Model No.: DK212 (NEUTRAL)

Detector : Average Value



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Data#: 125 File#: EN55022-B{AV}.EMI Date: 2004-10-19 Time: 16:56:47



Trace 124
Site : Shih-Chi : Conduction No.1(Gene)
Condition: CISPR CLASS-B(AV) LISN.N(16A) NEUTRAL
eut : E930665
power : AC 120V 60Hz
memo : Average Value
: TX ON

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.179	37.08	-17.47	54.55	36.78	0.20	0.10	

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2.4 Conducted Emission Test Photo

EUT Model No. DK212

< FRONT VIEW >



III. §15.247(a)(2) : -6dB bandwidth for Direct Sequence Systems**3.1 Test result of bandwidth****EUT Model No. DK212****MODE : CCK**

Channel	Channel Frequency (MHz)	-6dB Bandwidth (MHz)	Limit (MHz)	Pass/Fail
1	2412	12.20	> 0.5	Pass
6	2437	8.80	> 0.5	Pass
11	2462	7.30	> 0.5	Pass

MODE : OFDM

Channel	Channel Frequency (MHz)	-6dB Bandwidth (MHz)	Limit (MHz)	Pass/Fail
1	2412	16.42	> 0.5	Pass
6	2437	15.30	> 0.5	Pass
11	2462	15.40	> 0.5	Pass

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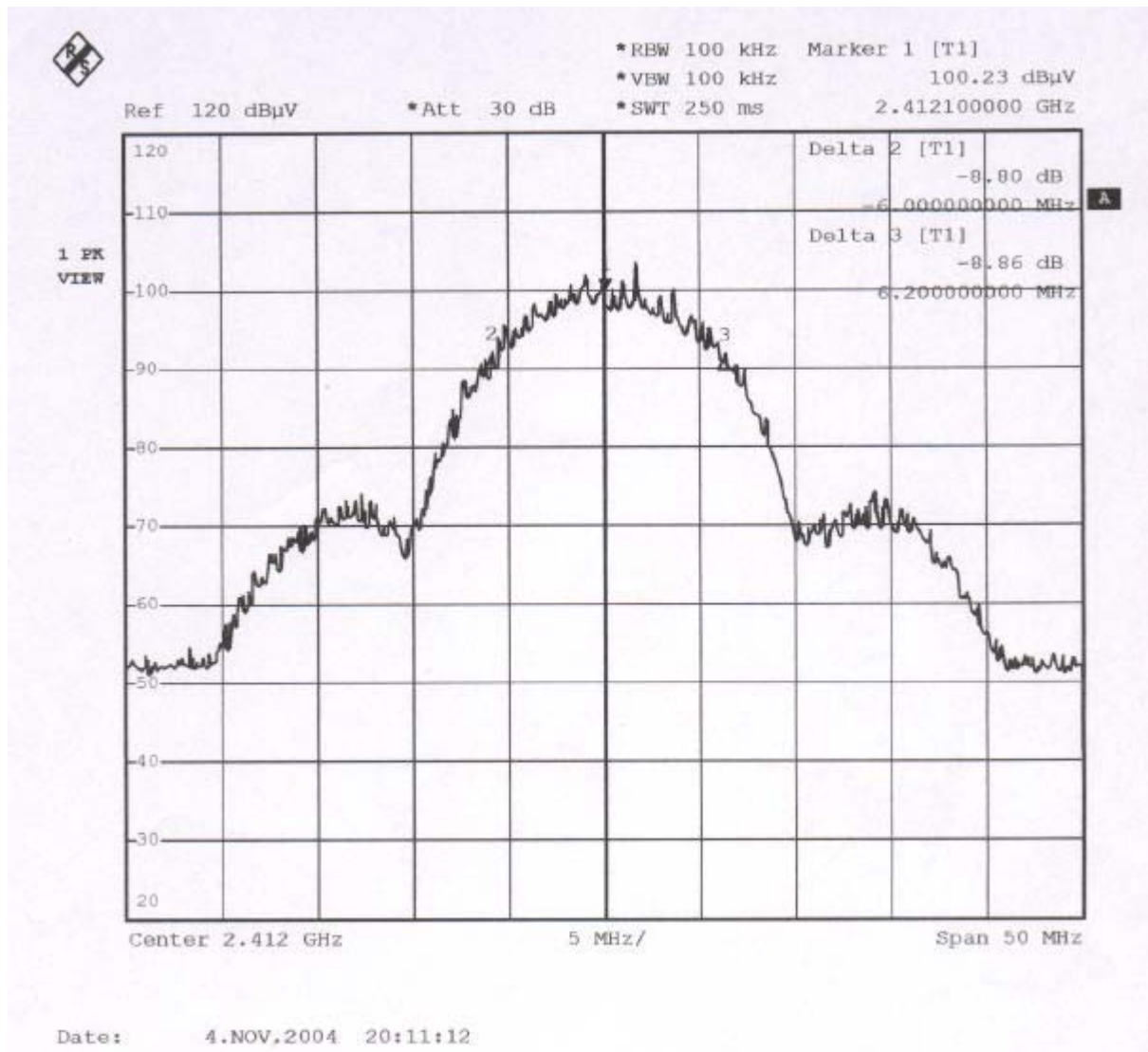
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3.2 Spectrum Plot Data

EUT Model No. DK212

Channel : CH.1

Mode : CCK



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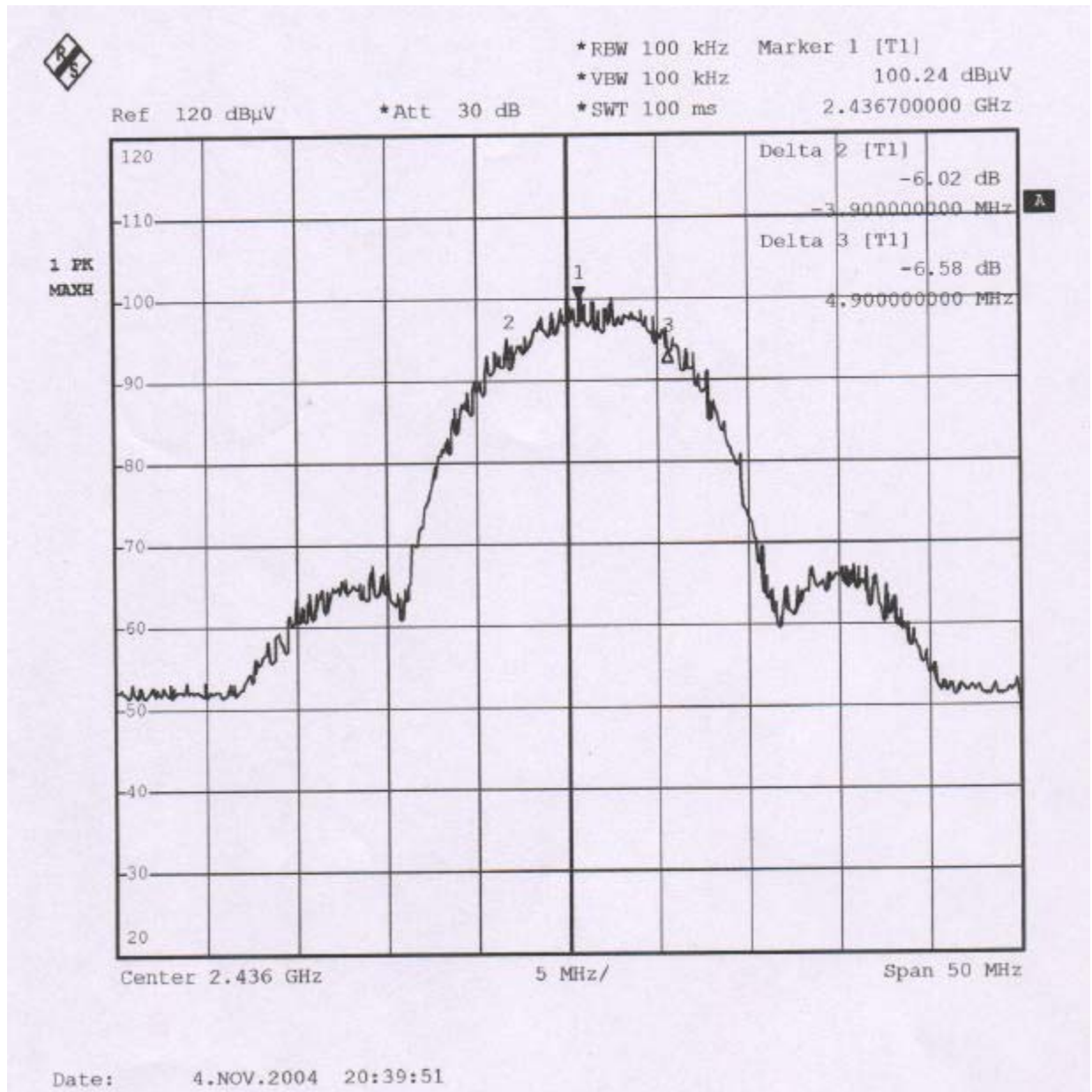
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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Mode : CCK



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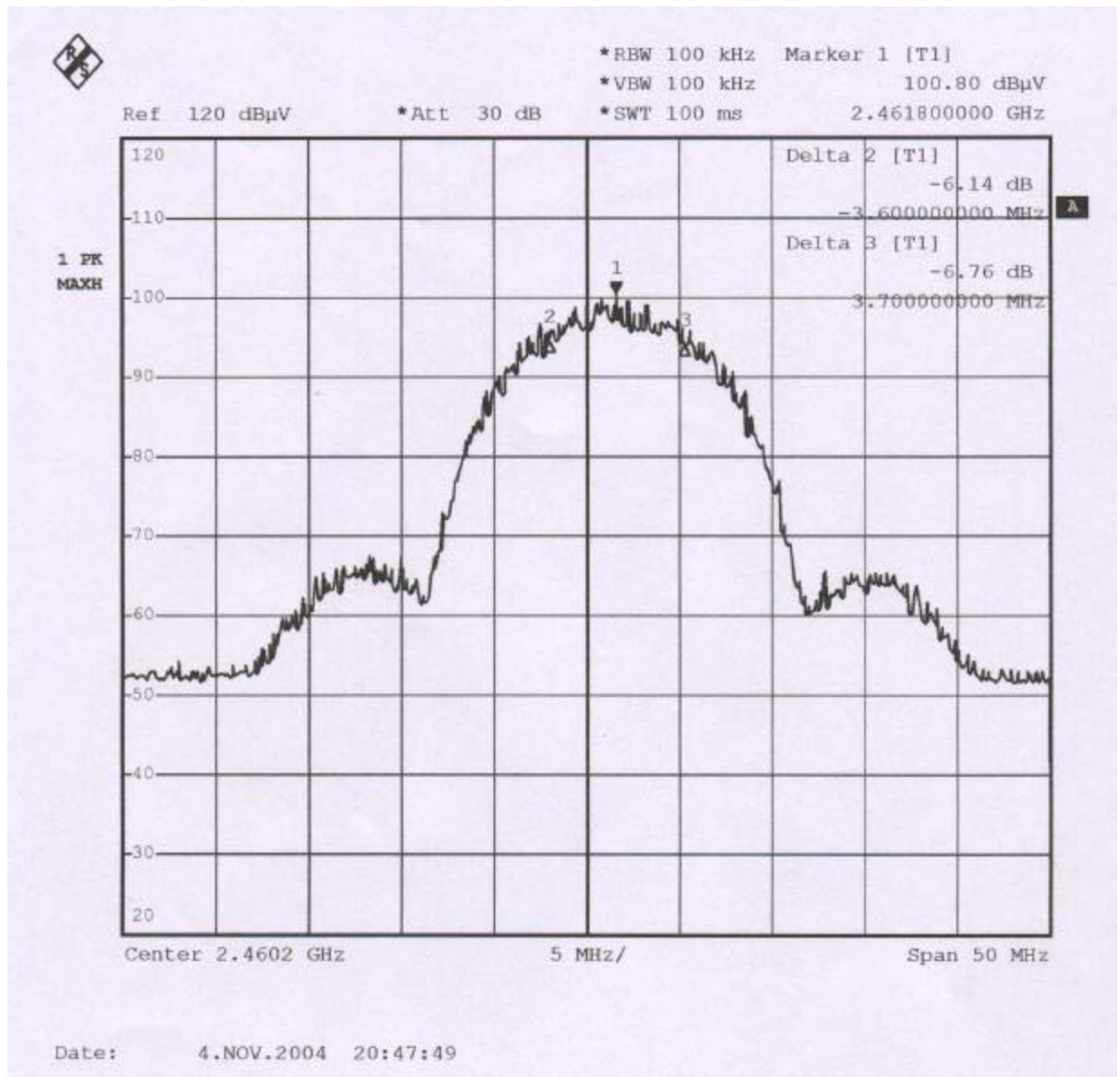
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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Mode : CCK



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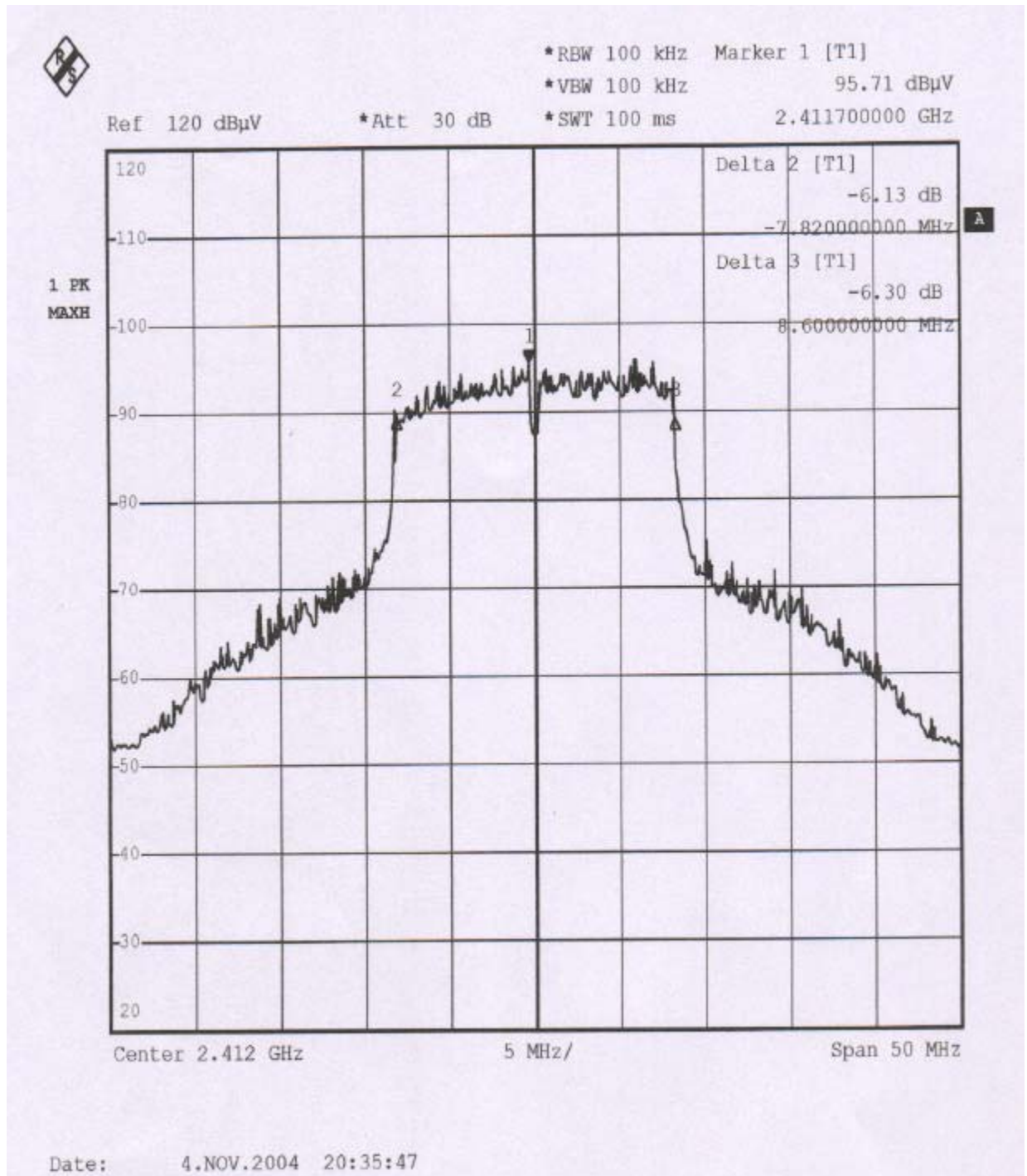
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FCC ID : SYC0B390C02

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Channel : CH.1

Mode : OFDM



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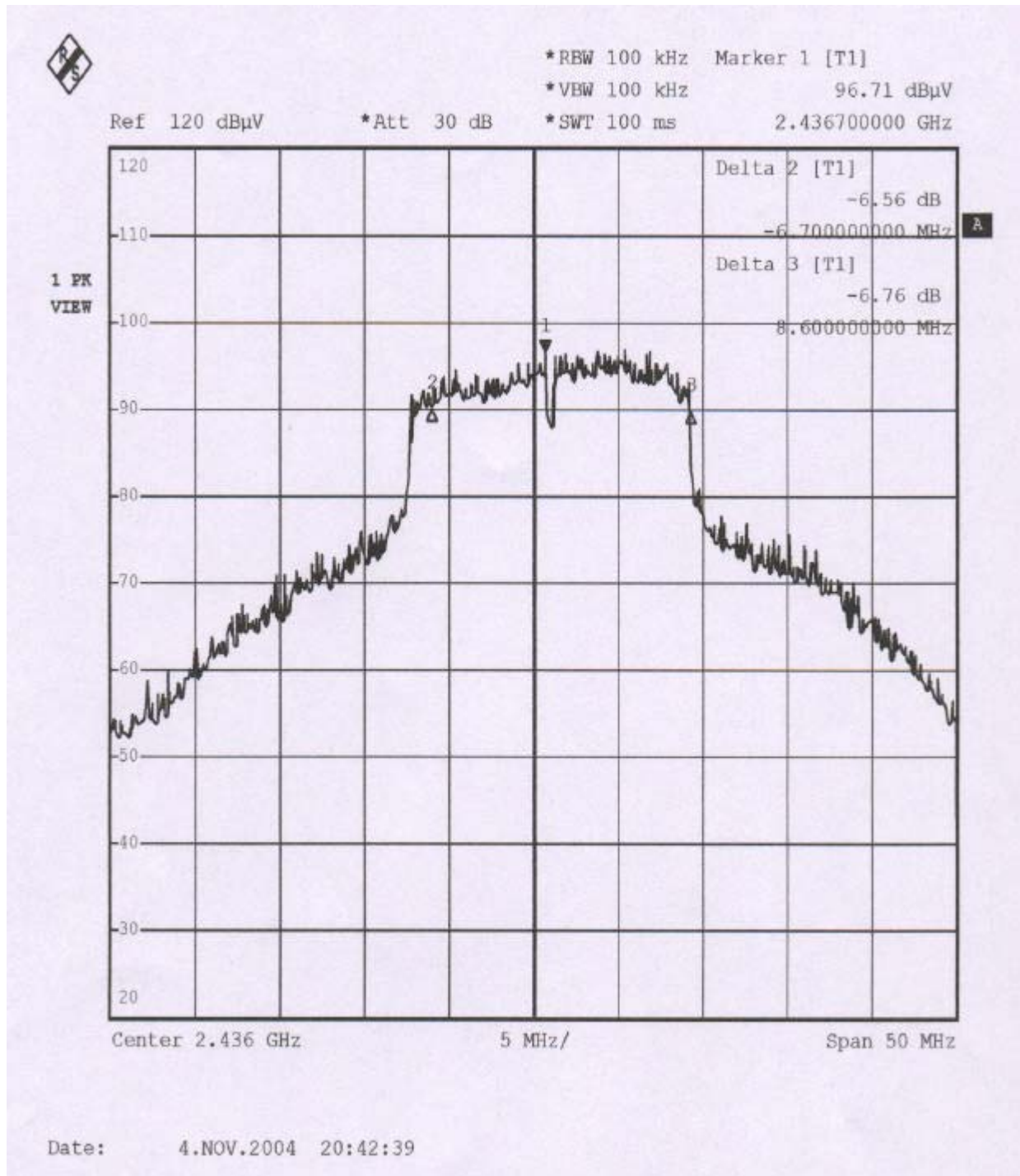
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REPORT NO. : E930665

Channel : CH.6

Mode : OFDM



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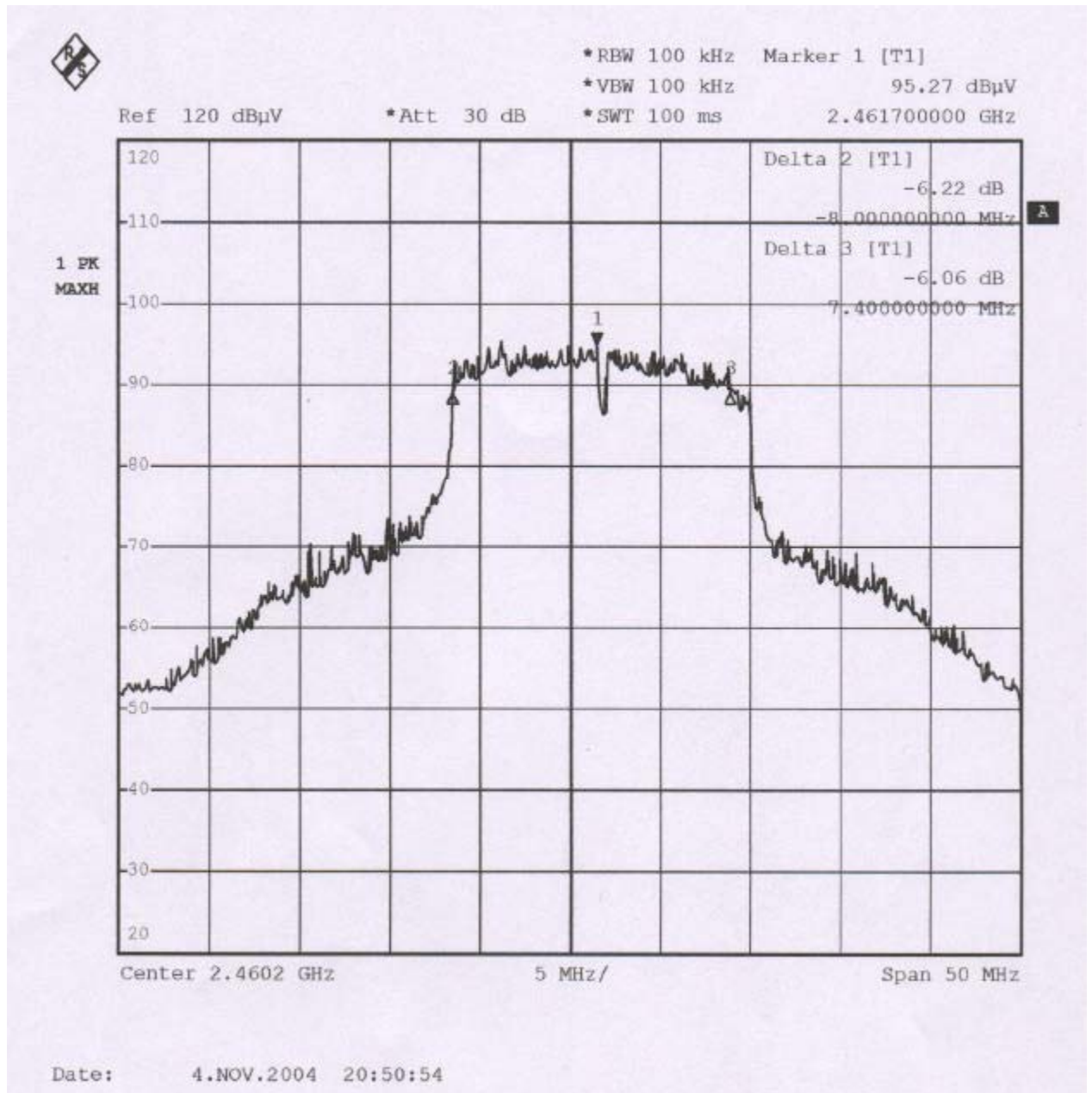
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FCC ID : SYC0B390C02

REPORT NO. : E930665

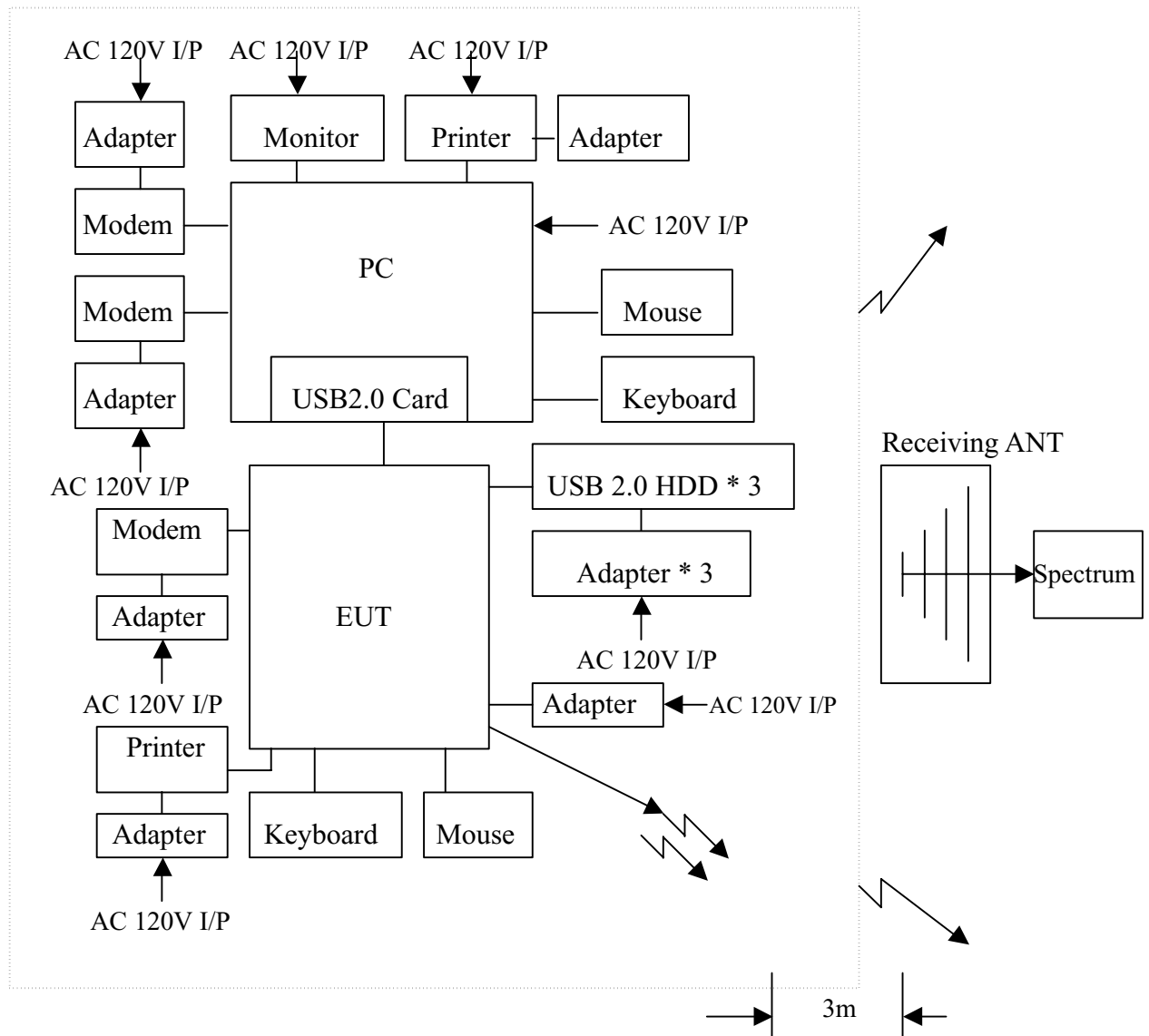
Channel : CH.11

Mode : OFDM



IV. §15.247(b) : The maximum peak output power ($\leq 1\text{watt}$)

4.1 Testing Description



Three channels were tested : CH01, CH06 AND CH11 Measurements were taken by using both horizontal and vertical antenna polarization, and the antenna was raised and lowered from one to four meters to find the worst emission levels.

4.2 Software Using

The driver of “ZD1211.exe” is used to select the support channel as mentioned on section 1.3 (b) listed above.

4.3 Test Result of Fundamental Emissions**EUT Model No. DK212****MODE : CCK**

Channel	Frequency (MHz)	Antenna Polarity (H/V)	Spectrum Read (dBuV/m)	C.F. (dB)	Level (dBuV/m)	E.I.R.P. (W)
1	2413.1	H	108.79	-2.07	106.72	14.1×10^{-3}
	2413.1	V	105.23	-2.07	103.16	6.2×10^{-3}
6	2438.4	H	107.15	-2.01	105.14	9.8×10^{-3}
	2437.0	V	101.20	-2.01	99.19	2.5×10^{-3}
11	2463.2	H	106.13	-1.95	104.18	7.9×10^{-3}
	2463.3	V	100.14	-1.95	98.19	2.0×10^{-3}

MODE : OFDM

Channel	Frequency (MHz)	Antenna Polarity (H/V)	Spectrum Read (dBuV/m)	C.F. (dB)	Level (dBuV/m)	E.I.R.P. (W)
1	2418.7	H	105.64	-2.06	103.58	6.8×10^{-3}
	2413.8	V	100.56	-2.06	98.50	2.1×10^{-3}
6	2438.7	H	107.15	-2.01	105.14	9.8×10^{-3}
	2438.7	V	99.24	-2.01	97.23	1.6×10^{-3}
11	2463.7	H	104.90	-1.95	102.95	5.9×10^{-3}
	2463.7	V	97.24	-1.95	95.29	1.0×10^{-3}

Note :

1. "C.F." means corrected factor = antenna factor + cable loss – Preamplifier Gain .
2. Level means emission amplitude = S.P. + C.F. + duty cycle factor
3. Conducted output power : $P = (E d)^2 / 30G$
where $E (V) = \text{Level} (V)$
 $d (m) = \text{measurement distance} = 3m$
 $G = 1$ (the gain of the transmitting antenna over isotropic antenna)
 $P = \text{E.I.R.P.}$
4. Example :
If Level = 120 dBuV/m
 $10^{(120/20)} \times 10^{-6} = 1 V$
 $\text{E.I.R.P.} = (1 \times 3)^2 / 30 = 300 \text{ Mw}$

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Taipei Hsien, Taiwan, R. O. C.

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FCC ID : SYC0B390C02

REPORT NO. : E930665

EUT Model No. DK212

Channel : CH.1

Polarity : Horizontal

Mode : CCK

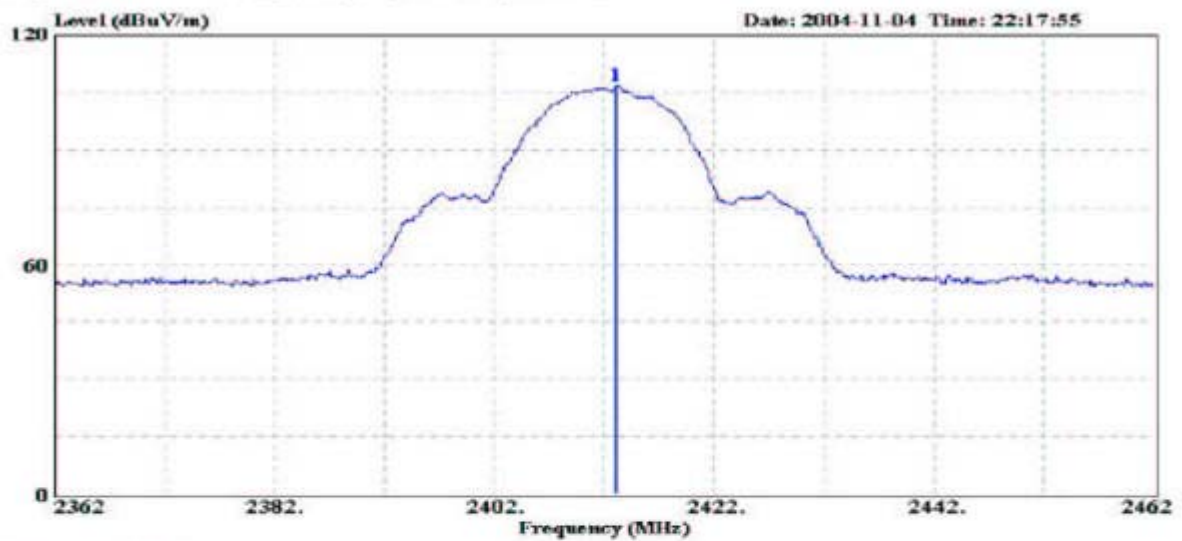


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Data#: 520

File#: C:\e3\客戶測試\聯陽.EMI

Date: 2004-11-04 Time: 22:17:55



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Hemo : CH.1
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBUV/m	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB	dB	dB	
1	2413.100	106.72	-----	-----	106.79	28.49	4.11	34.67	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Vertical

Mode : CCK

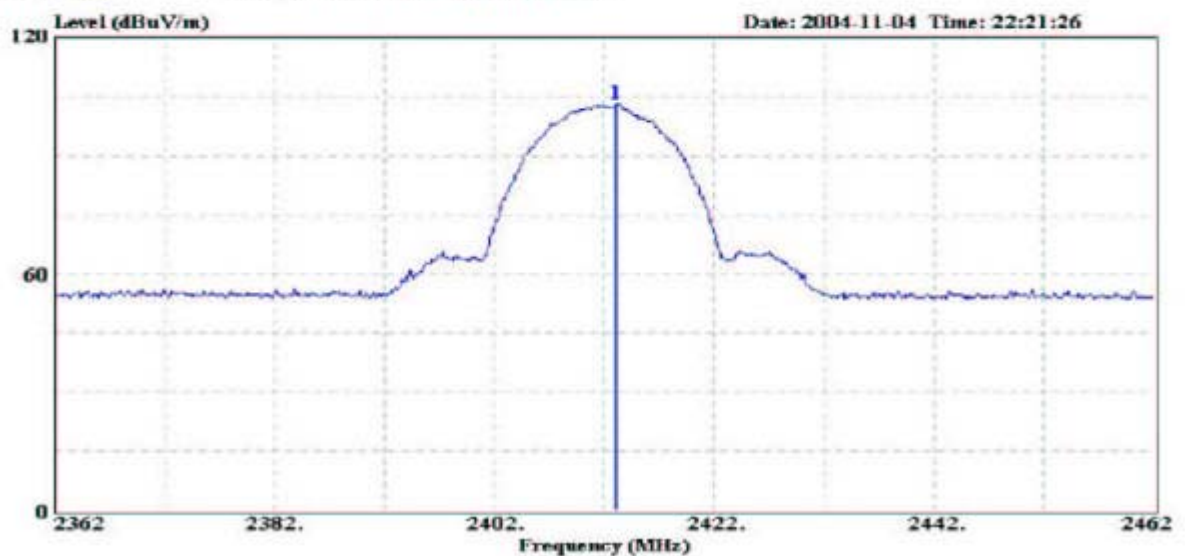


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Data#: 521

File#: C:\e3\客戶測試\聯陽.EMI

Date: 2004-11-04 Time: 22:21:26



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.1
Mode : CCK

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	Remark
1	2413.100	103.16	-----	105.23	28.49	4.11	34.67	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Horizontal

Mode : CCK

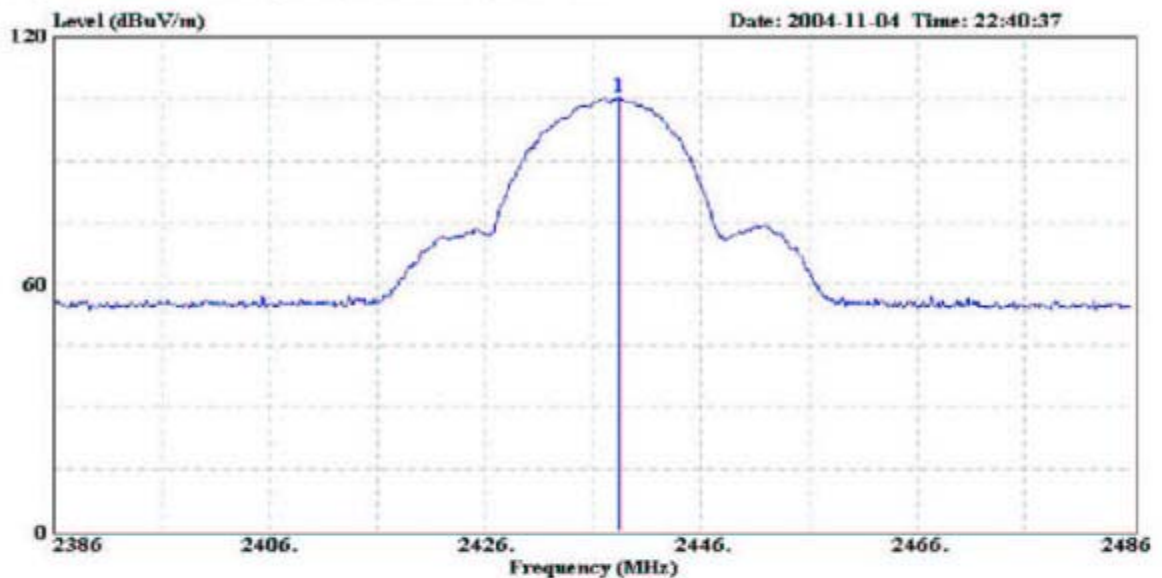


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Data# : 524

File# : C:\e3\客戶測試\聯揚.EMI

Date: 2004-11-04 Time: 22:40:37



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.6
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable		Remark
			Limit	Line			Loss	Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2438.400	105.14	-----	-----	107.15	28.53	4.14	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Vertical

Mode : CCK

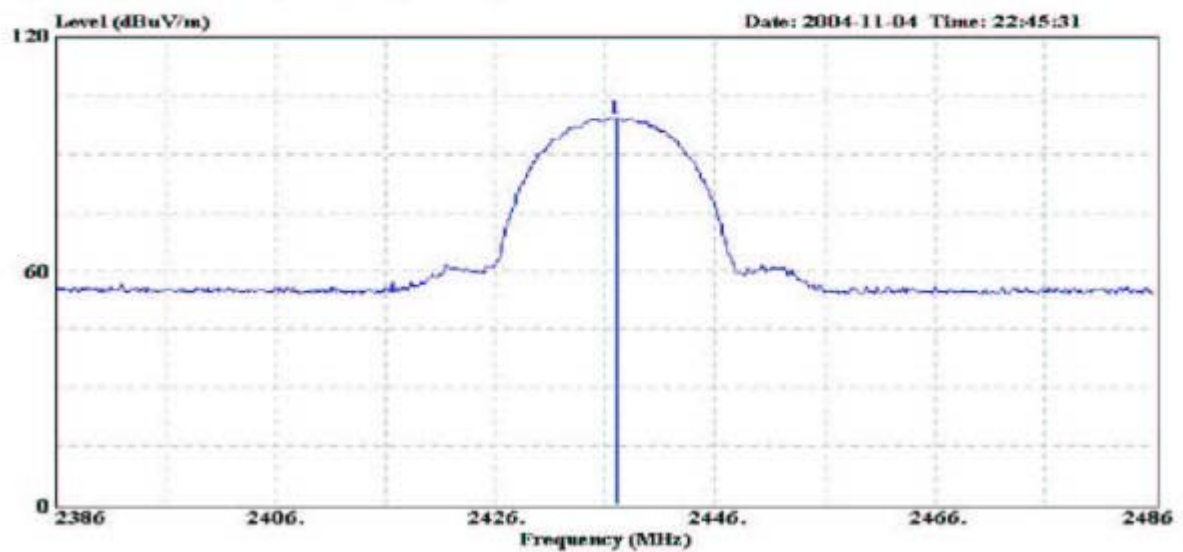


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Data#: 525

File#: C:\e3\客戶測試\幫辦.EMI

Date: 2004-11-04 Time: 22:45:31



Site : No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.6
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	Remark
1	2437.000	99.19	-----	-----	101.20	26.53	4.14	34.68	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Horizontal

Mode : CCK

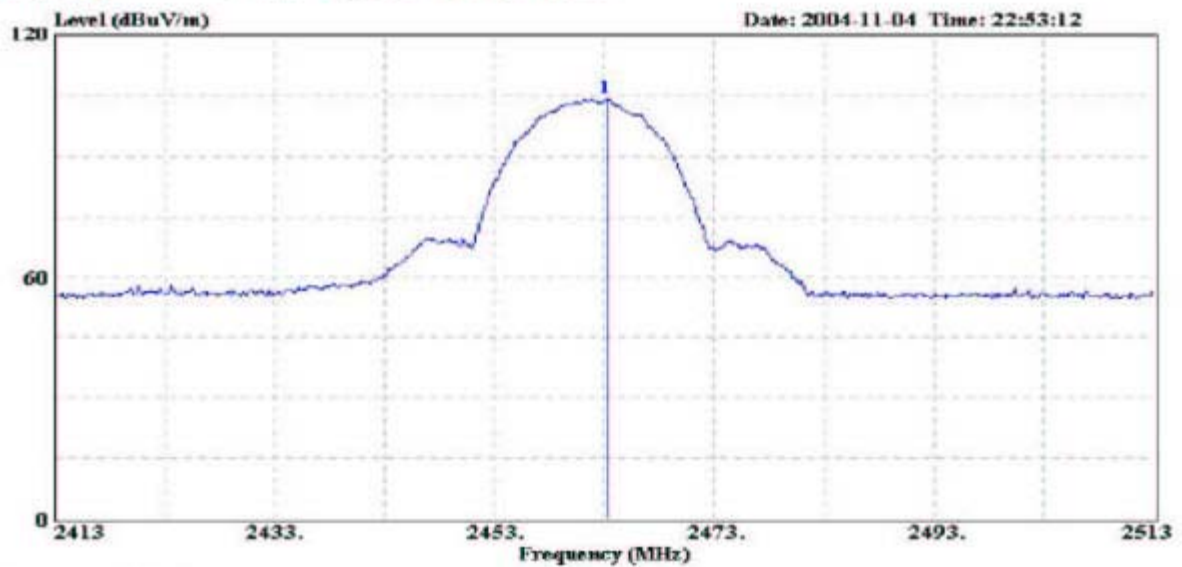


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PEP Testing Laboratory

Data#: 528

File#: C:\e3\客戶測試\聯德.EMI

Date: 2004-11-04 Time: 22:53:12



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.11
Mode : CCK

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
		Limit	Line					
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2463.200	104.18	-----	106.13	28.57	4.17	34.69	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Vertical

Mode : CCK

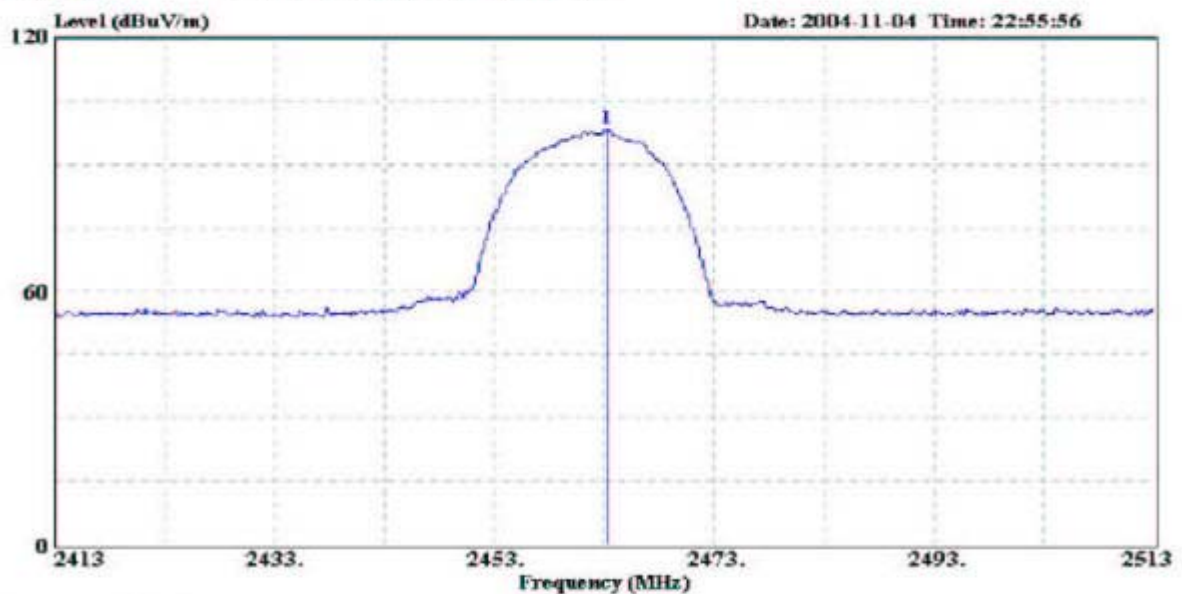


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Data#: 529

File#: C:\e3\客戶測試\靜場.EMI

Date: 2004.11-04 Time: 22:55:56



Site : No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.11
Mode : CCK

			Over	Limit	Reed	Probe	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2463.300	98.19	-----	-----	100.14	28.57	4.17	34.69	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Horizontal

Mode : OFDM

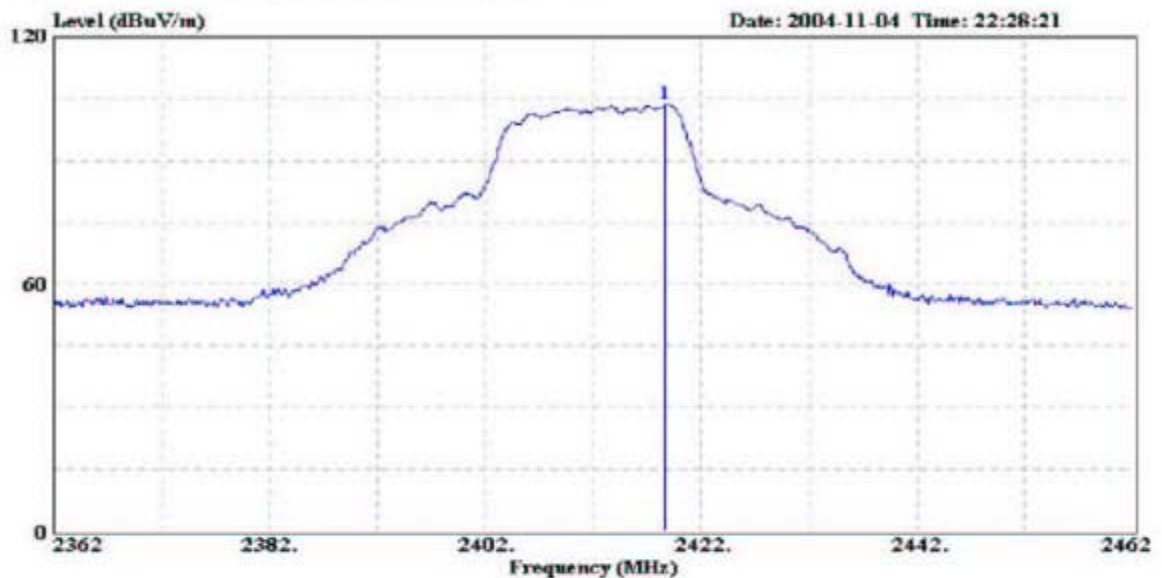


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Data# : 523

File# : C:\e3\客戶測試\聯揚.EMI

Date: 2004-11-04 Time: 22:28:21



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.1
Mode : OFDM

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	Remark
1	2418.700	103.58	-----	-----	105.64	28.50	4.11	34.67	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Vertical

Mode : OFDM

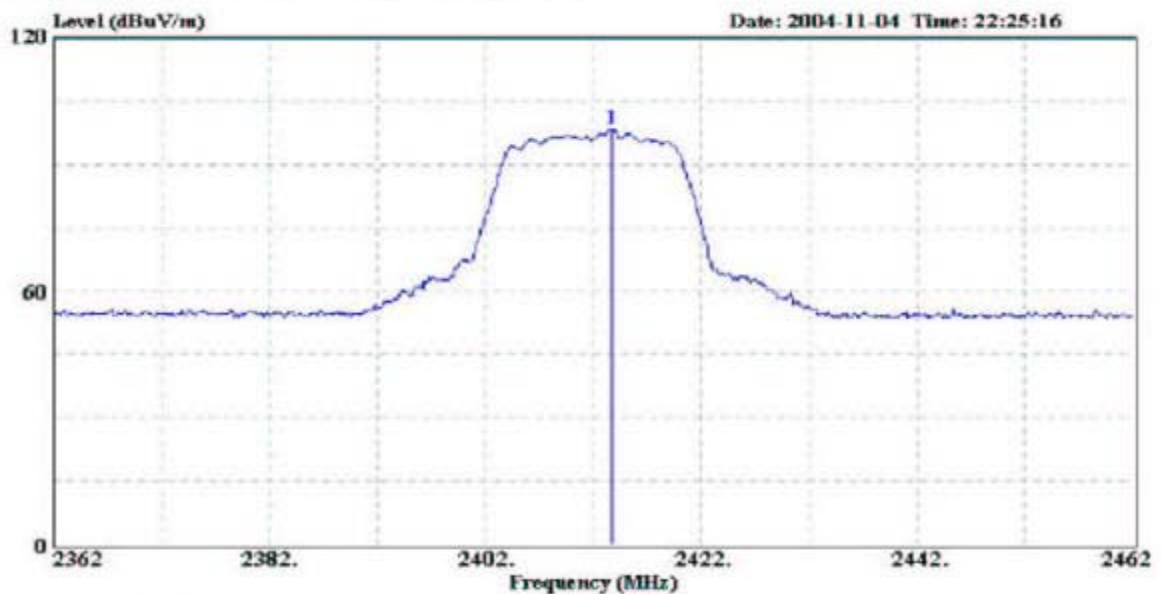


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Data# : 522

File# : C:\e3\客戶測試\雜場.EMI

Date: 2004-11-04 Time: 22:25:16



Site : No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.1
Mode : OFDM

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
		Limit	Line	Level	Factor	Loss	Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2413.800	98.50	-----	100.56	28.50	4.11	34.67	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Horizontal

Mode : OFDM

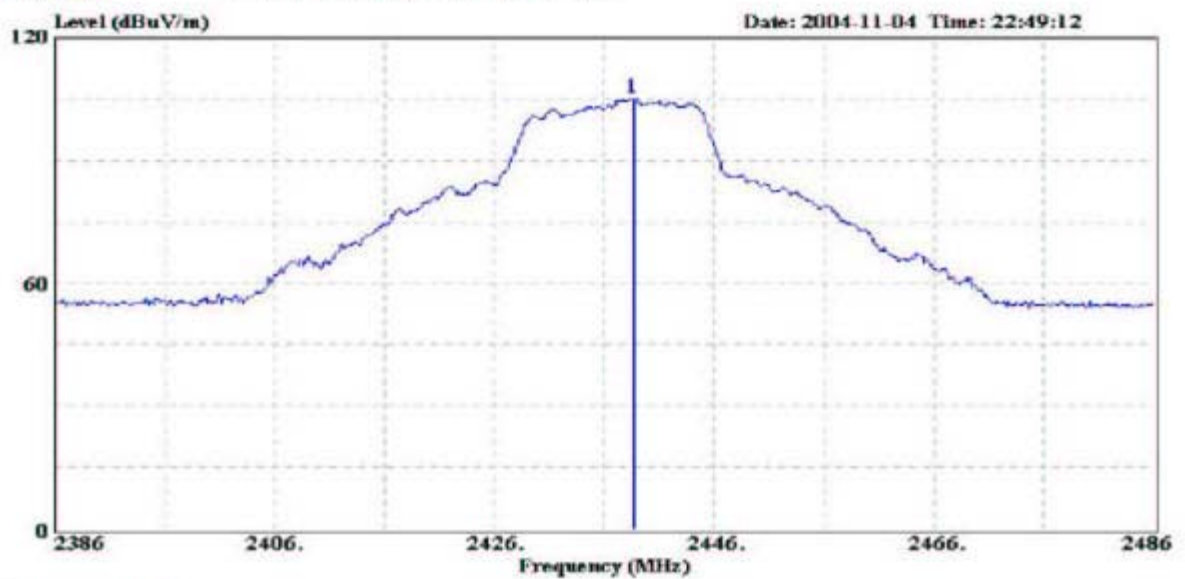


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Data#: 527

File#: C:\e3\客戶測試\聯陽.EMI

Date: 2004-11-04 Time: 22:49:12



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.6
Mode : OFDM

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	Remark
1	2436.700	105.14	-----	-----	107.15	26.53	4.14	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6
Polarity : Vertical
Mode : OFDM

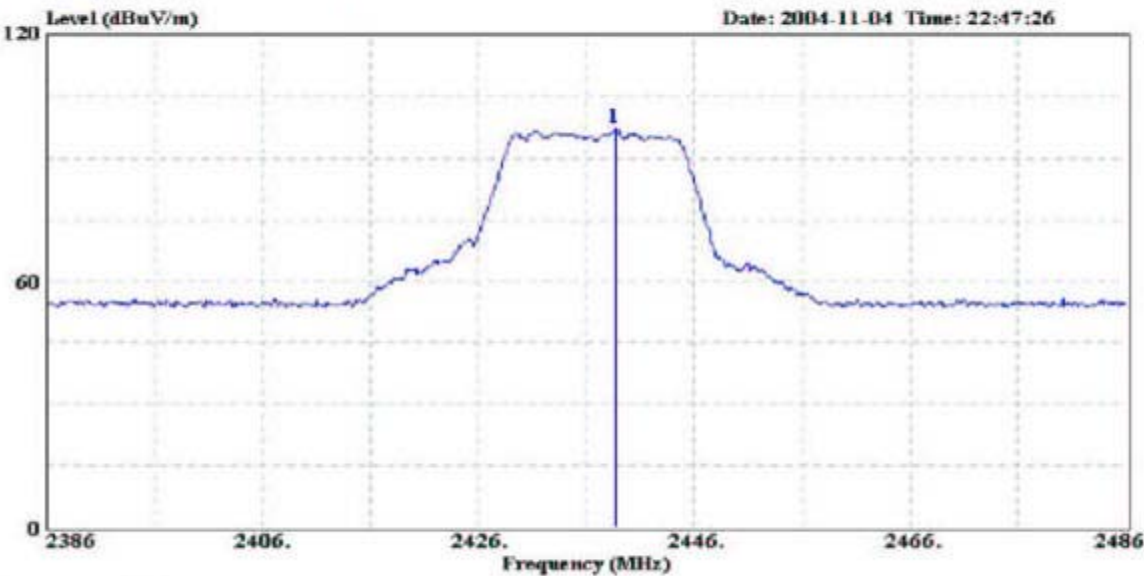


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Data# : 526

File# : C:\e3\客戶測試\慧揚.EMI

Date: 2004-11-04 Time: 22:47:26



Site : No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.6
Mode : OFDM

Freq	Level	Over	Limit	Read	Probe	Cable Preamp		Remark
		Limit	Line			Loss	Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1 2438.700	97.23	-----	-----	99.24	28.53	4.14	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Horizontal

Mode : OFDM

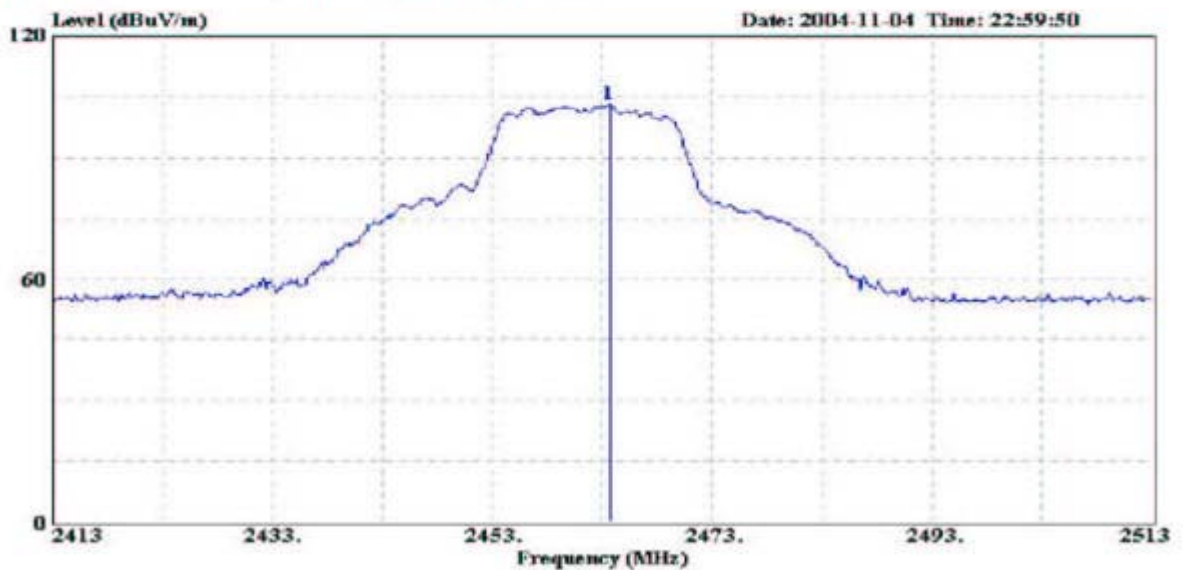


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Data#: 531

File#: C:\e3\客戶測試\聯陽.EMI

Date: 2004-11-04 Time: 22:59:50



Site : No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.11
Mode : OFDM

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	Remark
1	2463.700	102.95	-----	104.90	20.57	4.17	34.69	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Vertical

Mode : OFDM

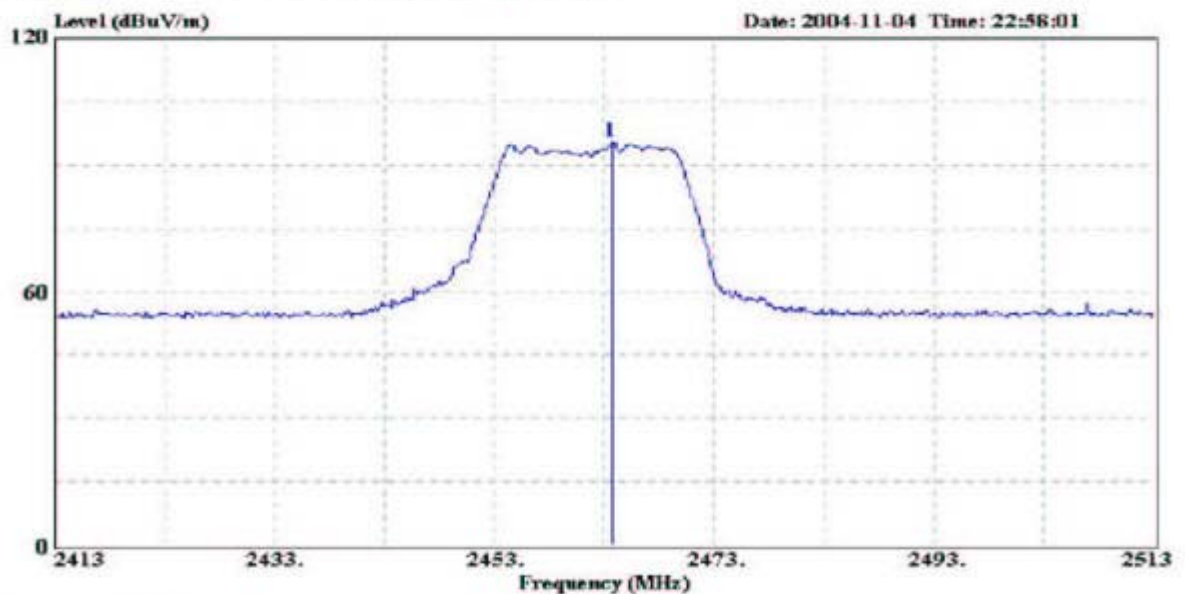


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PEP Testing Laboratory

Data#: 530

File#: C:\e3\客戶測試\轉場.EMI

Date: 2004-11-04 Time: 22:58:01



Site : No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930665
Power : AC120V/60Hz
Memo : CH.11
Mode : OFDM

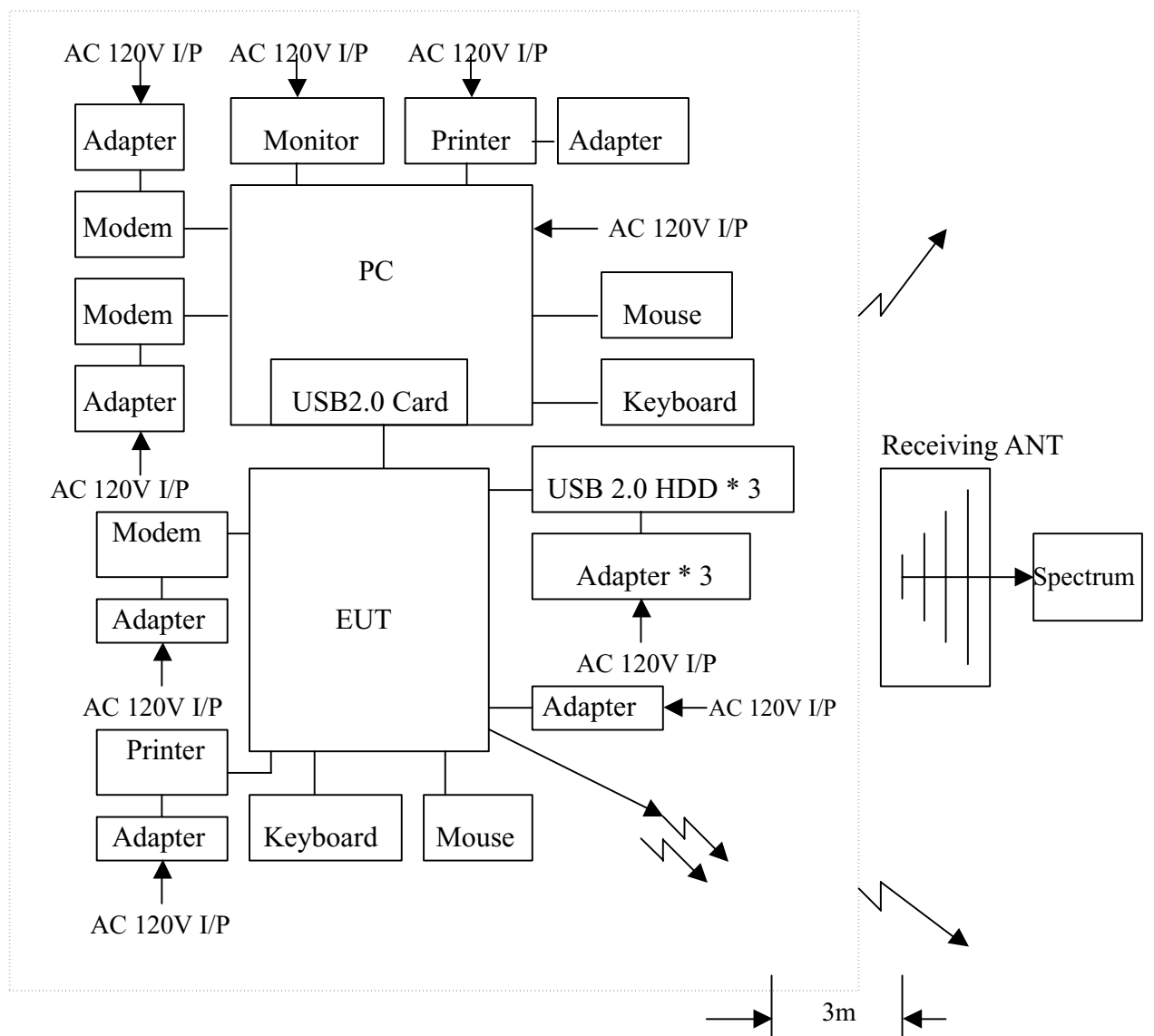
	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	dB	
1	2463.700	95.29	-----	-----	97.24	28.57	4.17	34.69	

V. §15.247(b)(4) Maximum Permissible Exposure (MPE)

5.1 MPE distance calculation

$$d = \frac{\sqrt{30G \text{ EIRP}}}{E}$$

5.2 Device operating configurations exposure conditions



5.3 Maximum Permissible Exposure (MPE)

EUT Model No. DK212

MODE : CCK

Channel	Frequency (MHz)	Antenna Polarity (H/V)	Spectrum Read (dBuV/m)	C.F. (dB)	Level (dBuV/m)	Power Density at 20cm (mW/cm ²)
1	2413.1	H	108.79	-2.07	106.72	6.27×10^{-2}
	2413.1	V	105.23	-2.07	103.16	2.76×10^{-2}
6	2438.4	H	107.15	-2.01	105.14	4.35×10^{-2}
	2437.0	V	101.20	-2.01	99.19	1.11×10^{-2}
11	2463.2	H	106.13	-1.95	104.18	3.49×10^{-2}
	2463.3	V	100.14	-1.95	98.19	8.79×10^{-3}

MODE : OFDM

Channel	Frequency (MHz)	Antenna Polarity (H/V)	Spectrum Read (dBuV/m)	C.F. (dB)	Level (dBuV/m)	Power Density at 20cm (mW/cm ²)
1	2418.7	H	105.64	-2.06	103.58	3.04×10^{-2}
	2413.8	V	100.56	-2.06	98.50	9.44×10^{-3}
6	2438.7	H	107.15	-2.01	105.14	4.35×10^{-2}
	2438.7	V	99.24	-2.01	97.23	7.05×10^{-3}
11	2463.7	H	104.90	-1.95	102.95	2.63×10^{-2}
	2463.7	V	97.24	-1.95	95.29	4.51×10^{-3}

Note :

- “C.F.” means corrected factor = antenna factor + cable loss – Preamplifier Gain .
- Level means emission amplitude = S.P. + C.F. + duty cycle factor
- Conducted output power : $P = (E \cdot d)^2 / 30G$
 where $E \text{ (V)} = \text{Level (V)}$
 $d \text{ (m)} = \text{measurement distance} = 0.2\text{m}$
 $G = 1$ (the gain of the transmitting antenna over isotropic antenna)
 $P = \text{E.I.R.P.}$
- Example :
 If Level = 120 dBuV/m
 $10^{(120/20)} \times 10^{-6} = 1 \text{ V}$
 $\text{E.I.R.P.} = (1 \times 3)^2 / 30 = 300 \text{ Mw}$

VI. §15.247(c) : Spurious Radiated Emissions**6.1 Out side band below 1GHz****Test Results:****Model No. : DK212****Frequency range : 30MHz - 1GHz** **Detector : Quasi-Peak Value****Temperature : 28° C** **Humidity : 52 %****Antenna polarization : HORIZONTAL ; Test distance : 3 m ;**

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
73.000	36.72	-3.28	40.0	48.00	7.42	0.84	19.54	
119.380	38.49	-5.01	43.5	45.00	11.97	1.10	19.58	
240.000	36.68	-9.32	46.0	43.10	11.16	1.62	19.20	
480.000	45.54	-0.46	46.0	45.20	16.93	2.58	19.17	
599.976	40.76	-5.24	46.0	37.93	19.13	3.10	19.40	
960.030	45.58	-8.42	54.0	37.32	23.36	3.96	19.06	

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
121.192	32.08	-11.42	43.5	38.41	12.15	1.10	19.58	
161.242	30.03	-13.47	43.5	31.62	16.58	1.31	19.48	
196.167	35.14	-8.36	43.5	41.49	11.59	1.48	19.42	
239.992	35.76	-10.24	46.0	42.18	11.16	1.62	19.20	
479.983	43.99	-2.01	46.0	43.65	16.93	2.58	19.17	
959.556	45.45	-0.55	46.0	37.19	23.36	3.96	19.06	

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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FCC ID : SYC0B390C02

REPORT NO. : E930665

6.2 Out side band above 1GHz

Test Results:

Model No. : DK212

Frequency range : above 1GHz

Temperature : 28° C

Channel : 1

Detector : Peak / Average Value

Humidity : 52 %

Mode : CCK

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq.	Level	Over	Limit	Read	Probe	Cable	Preamp	
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Remark
		(dB)	(dBuV/m)	(dBuV)	(dB/m)	(dB)	(dB)	
4823.00	58.18	-15.82	74	53.48	32.87	5.93	34.10	PK
4823.00	41.88	-12.12	54	37.18	32.87	5.93	34.10	AV
7235.00	67.85	-6.15	74	56.16	37.86	7.10	33.25	PK
7235.00	51.95	-2.05	54	40.26	37.86	7.10	33.25	AV
9647.00	53.28	-20.72	74	38.39	39.56	8.23	32.90	PK

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq.	Level	Over	Limit	Read	Probe	Cable	Preamp	
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Remark
		(dB)	(dBuV/m)	(dBuV)	(dB/m)	(dB)	(dB)	
4823.00	45.08	-28.92	74	40.38	32.87	5.93	34.10	PK
4823.00	31.36	-22.64	54	26.66	32.87	5.93	34.10	AV
7239.00	50.16	-23.84	74	38.46	37.85	7.10	33.25	PK
7239.00	39.79	-14.21	54	28.09	37.85	7.10	33.25	AV

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK212

Frequency range : above 1GHz

Detector : Peak / Average Value

Temperature : 28° C

Humidity : 52 %

Channel : 6

Mode : CCK

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4874.00	53.94	-20.06	74	49.00	33.06	5.95	34.07	PK
4874.00	42.62	-11.38	54	37.68	33.06	5.95	34.07	AV
7310.00	64.35	-9.65	74	52.71	37.75	7.13	33.24	PK
7310.00	51.80	-2.20	54	40.16	37.75	7.13	33.24	AV

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4875.00	43.32	-30.68	74	38.37	33.07	5.95	34.07	PK
4875.00	33.72	-20.28	54	28.77	33.07	5.95	34.07	AV
7310.00	45.99	-28.01	74	34.35	37.75	7.13	33.24	PK
7310.00	36.91	-17.09	54	25.27	37.75	7.13	33.24	AV

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK212

Frequency range : above 1GHz

Detector : Peak / Average Value

Temperature : 28° C

Humidity : 52 %

Channel : 11

Mode : CCK

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4926.00	56.10	-17.90	74	50.91	33.26	5.97	34.04	PK
4926.00	46.79	-7.21	54	41.60	33.26	5.97	34.04	AV
7386.00	67.06	-6.94	74	55.48	37.64	7.16	33.22	PK
7386.00	49.63	-4.37	54	38.05	37.64	7.16	33.22	AV

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4926.00	40.15	-33.85	74	34.96	33.26	5.97	34.04	PK
4926.00	30.64	-23.36	54	25.45	33.26	5.97	34.04	AV

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK212

Frequency range : above 1GHz

Detector : Peak / Average Value

Temperature : 28° C

Humidity : 52 %

Channel : 1

Mode : OFDM

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4830.00	59.11	-14.89	74	54.38	32.89	5.94	34.10	PK
4830.00	41.38	-12.62	54	36.65	32.89	5.94	34.10	AV
7231.00	64.68	-9.21	74	52.97	37.86	7.10	33.25	PK
7231.00	52.34	-1.66	54	40.63	37.86	7.10	33.25	AV
9658.00	54.33	-19.67	74	39.43	39.57	8.23	32.90	PK
9658.00	41.05	-12.95	54	26.15	39.57	8.23	32.90	AV

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4830.00	42.97	-31.03	74	38.24	32.89	5.94	34.10	PK
4830.00	31.38	-22.62	54	26.65	32.89	5.94	34.10	AV
7243.00	52.00	-22.00	74	40.30	37.85	7.10	33.25	PK
7243.00	38.26	-15.74	54	26.56	37.85	7.10	33.25	AV

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK212

Frequency range : above 1GHz

Detector : Peak / Average Value

Temperature : 28° C

Humidity : 52 %

Channel : 6

Mode : OFDM

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4882.00	57.70	-16.30	74	52.70	33.10	5.96	34.06	PK
4882.00	42.58	-11.42	54	37.58	33.10	5.96	34.06	AV
7319.00	68.22	-5.78	74	56.58	37.74	7.13	33.23	PK
7319.00	52.36	-1.64	54	40.72	37.74	7.13	33.23	AV
9762.00	52.29	-21.71	74	37.26	39.67	8.26	32.90	PK
9762.00	39.14	-14.86	54	24.13	39.67	8.26	32.90	AV

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4875.00	42.66	-31.34	74	37.71	33.07	5.95	34.07	PK
4875.00	28.94	-25.06	54	23.99	33.07	5.95	34.07	AV
7318.00	46.25	-27.75	74	34.61	37.74	7.13	33.23	PK
7318.00	34.43	-19.57	54	22.79	37.74	7.13	33.23	AV

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK212

Frequency range : above 1GHz

Detector : Peak / Average Value

Temperature : 28° C

Humidity : 52 %

Channel : 11

Mode : OFDM

Antenna polarization : HORIZONTAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4931.00	58.05	-15.95	74	52.82	33.28	5.98	34.03	PK
4931.00	44.35	-9.65	54	39.12	33.28	5.98	34.03	AV
7394.00	68.98	-5.02	74	57.41	37.63	7.16	33.22	PK
7394.00	52.09	-1.91	54	40.52	37.63	7.16	33.22	AV
9842.00	52.07	-21.93	74	36.95	39.75	8.27	32.90	PK
9842.00	40.41	-13.59	54	25.29	39.75	8.27	32.90	AV

Antenna polarization : VERTICAL ; Test distance : 3 m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Remark
4931.00	39.96	-34.04	74	34.73	33.28	5.98	34.03	PK
4931.00	29.62	-24.38	54	24.39	33.28	5.98	34.03	AV
7394.00	46.34	-27.66	74	34.77	37.63	7.16	33.22	PK

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line
3. All the other frequencies are under the limits more than 20dB

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FCC ID : SYC0B390C02

REPORT NO. : E930665

6.3 Radiate Emission Testing Photos

< FRONT VIEW >



< REAR VIEW >



VII. §15.247(c) : Band-edges Compliance

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 §15.209(a)

7.1 Test Result of Band-edges Compliance**MODE : CCK**

Frequency (MHz)	Polarity (H/V)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2386.3	H	49.55	74	-24.45	PK
2386.3	H	42.32	54	-11.68	AV
2371.2	V	41.45	74	-32.55	PK
2371.2	V	37.12	54	-16.88	AV
2486.3	H	42.32	74	-31.68	PK
2486.3	H	36.22	54	-17.78	AV
2489.1	V	37.12	74	-36.88	PK
2489.1	V	35.33	54	-18.67	AV

MODE : OFDM

Frequency (MHz)	Polarity (H/V)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.0	H	48.99	74	-25.01	PK
2390.0	H	46.51	54	-7.49	AV
2390.0	V	42.05	74	-31.95	PK
2390.0	V	40.10	54	-13.90	AV
2483.5	H	46.51	74	-27.49	PK
2483.5	H	44.22	54	-9.78	AV
2498.9	V	40.10	74	-33.90	PK
2498.9	V	38.02	54	-15.98	AV

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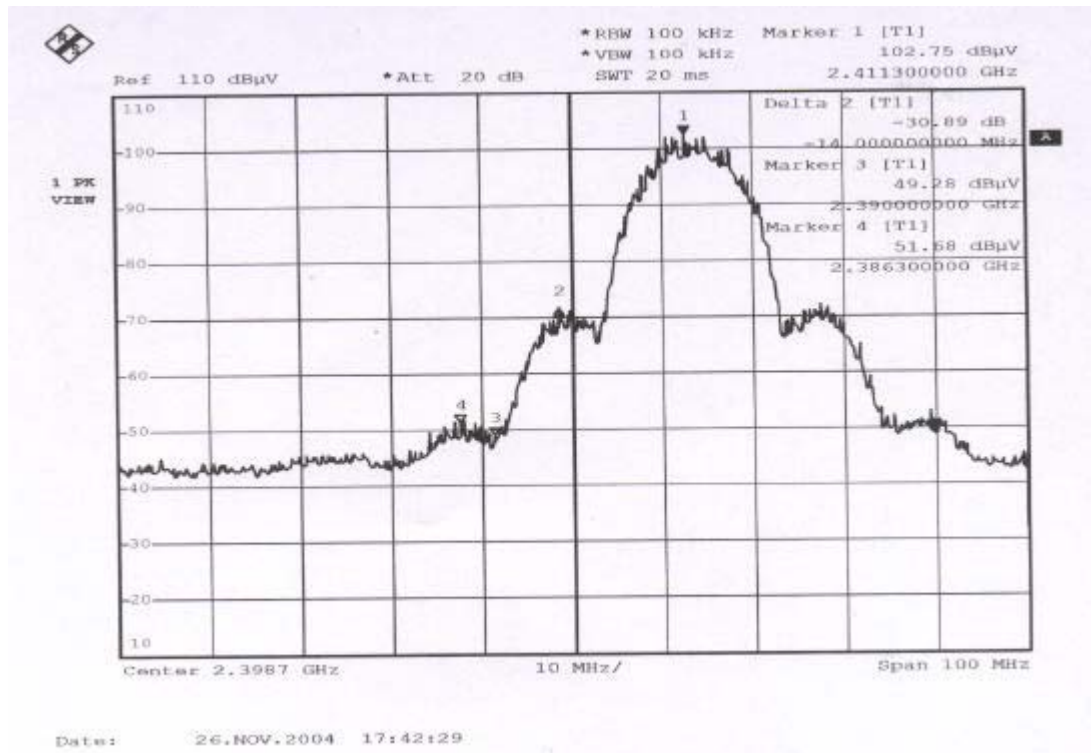
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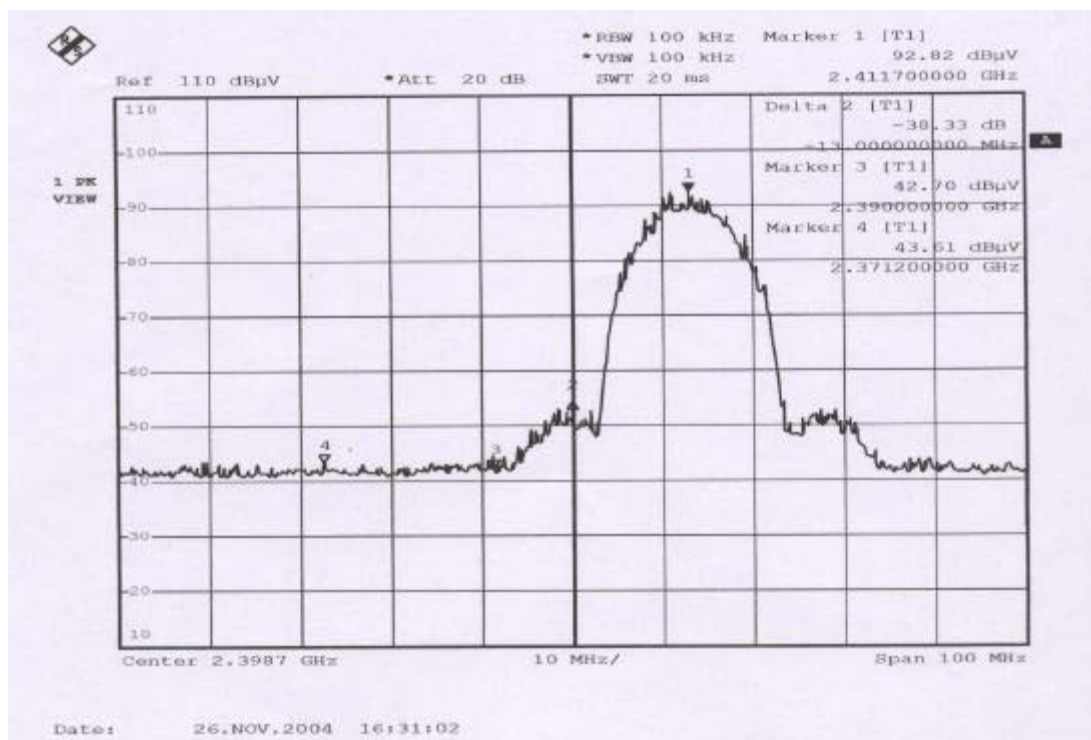
Channel : CH.1

Mode : CCK

Polarity : Horizontal



Polarity : Vertical



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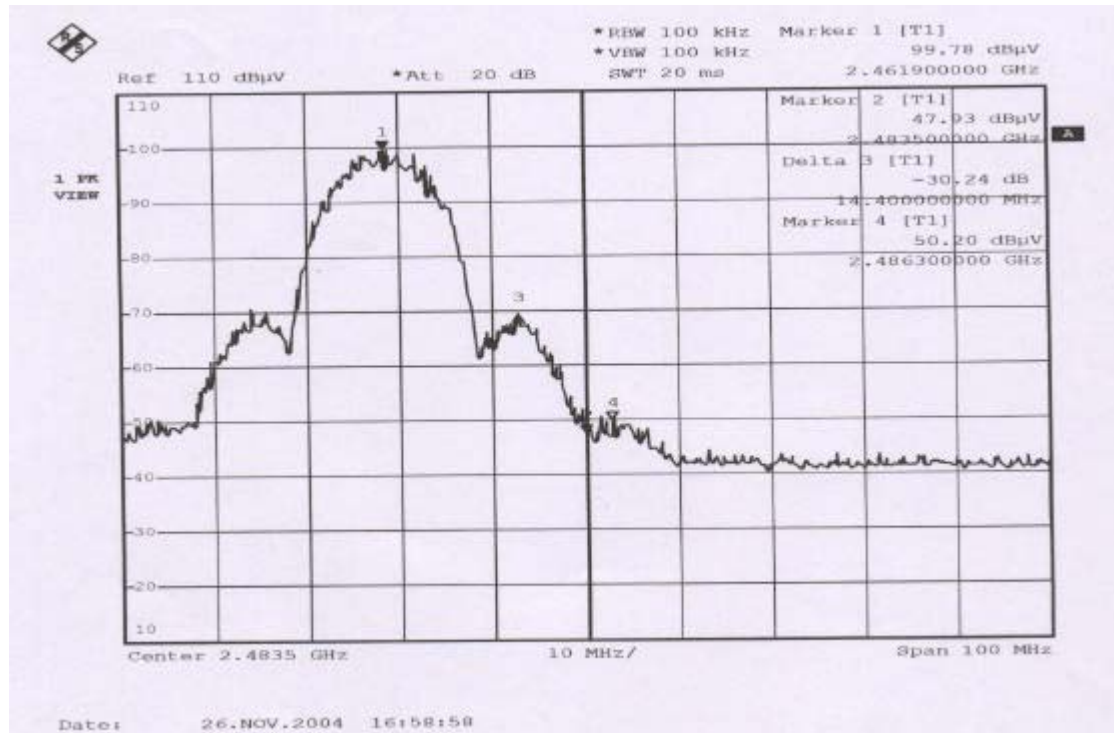
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REPORT NO. : E930665

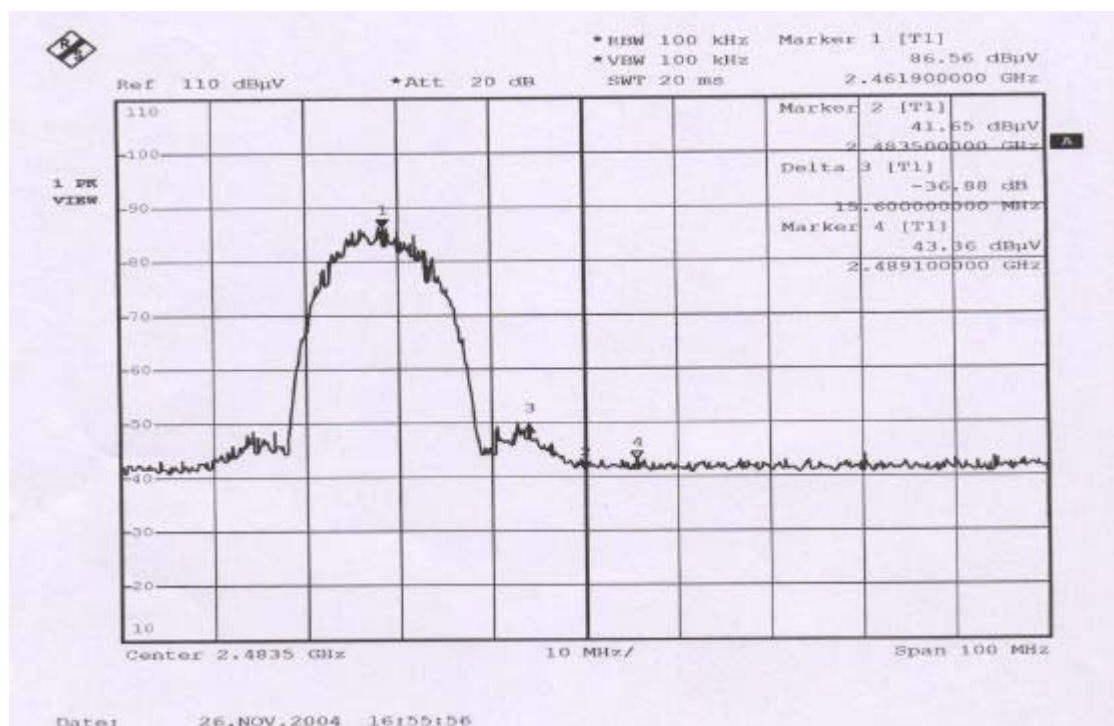
Channel : CH.11

Mode : CCK

Polarity : Horizontal



Polarity : Vertical



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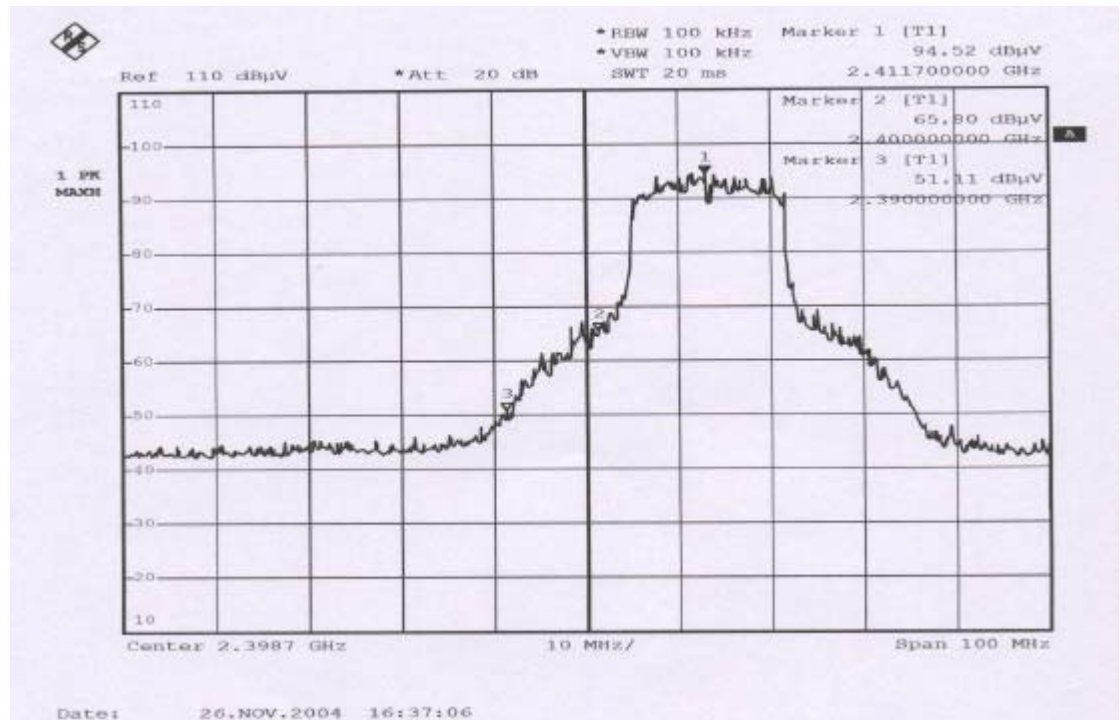
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REPORT NO. : E930665

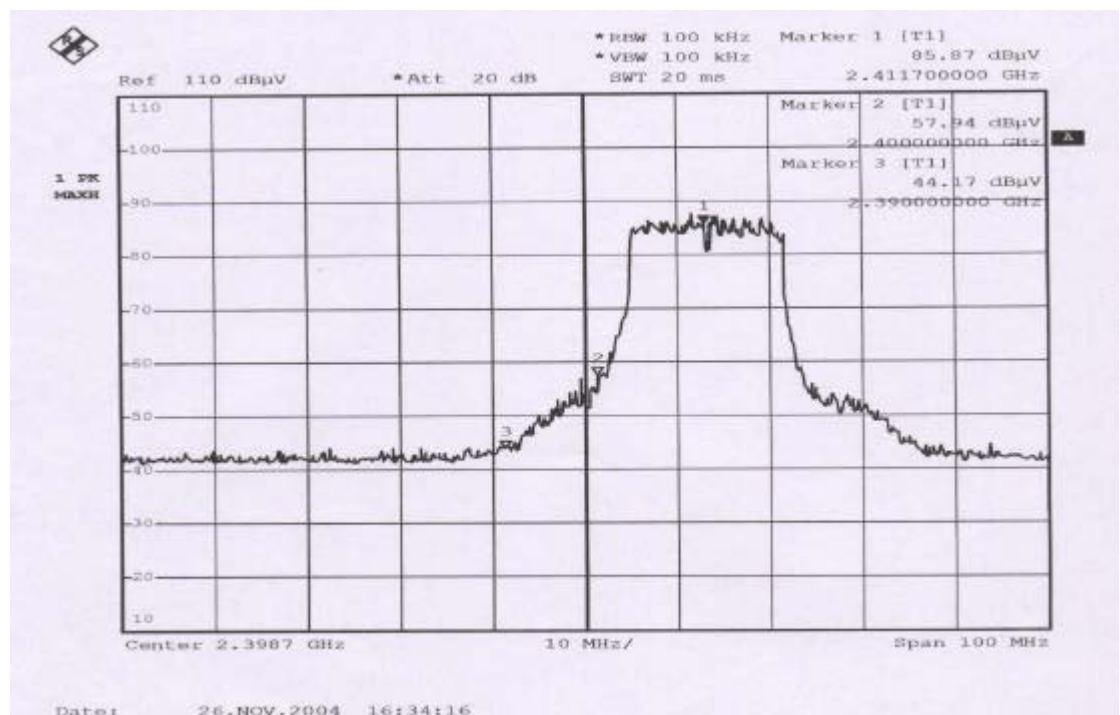
Channel : CH.1

Mode : OFDM

Polarity : Horizontal



Polarity : Vertical



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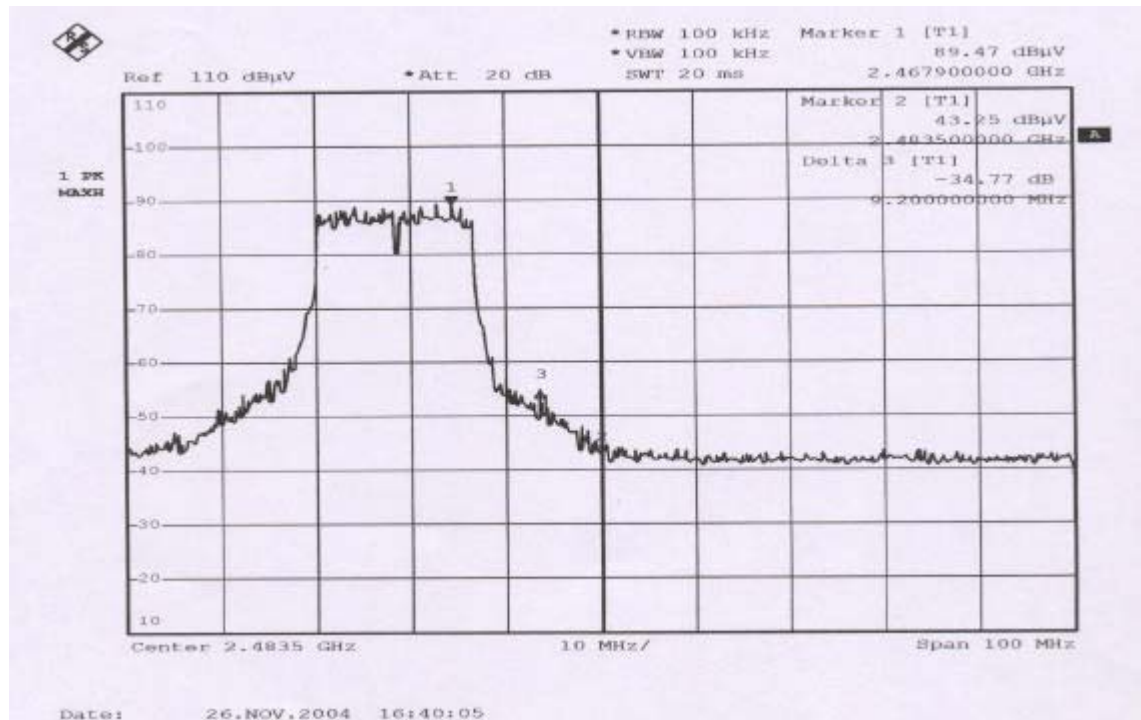
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REPORT NO. : E930665

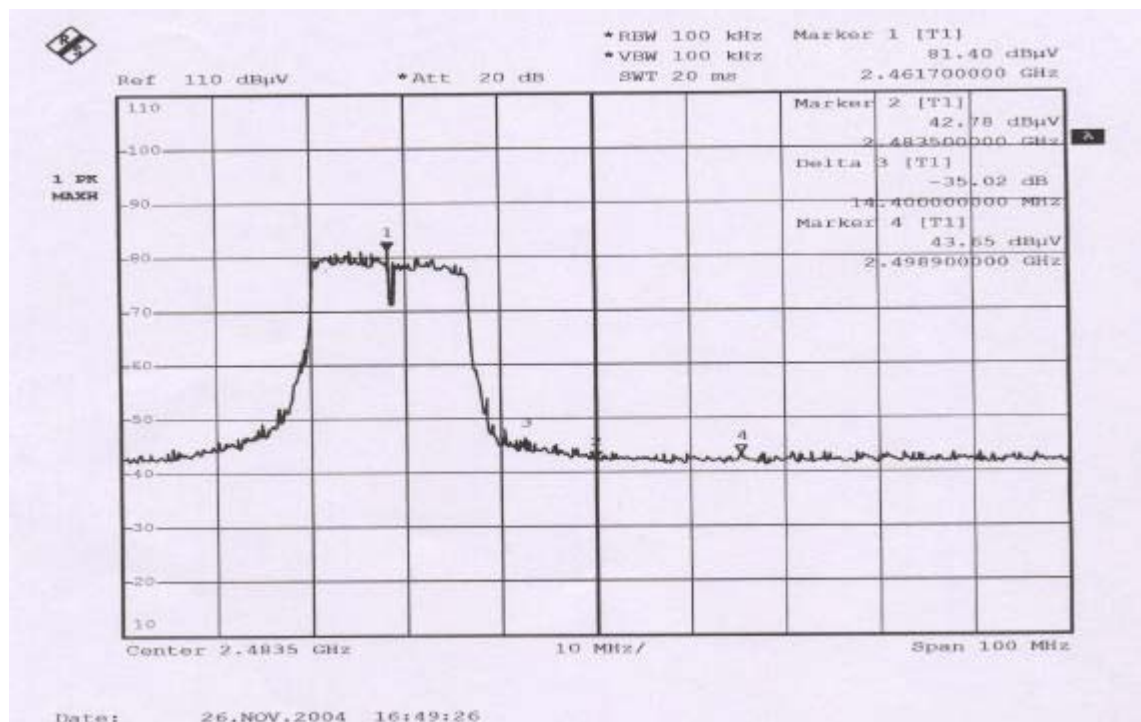
Channel : CH.11

Mode : OFDM

Polarity : Horizontal



Polarity : vertical



VIII. §15.247(d) : Power Spectral Density

8.1 Test Result of Power Spectral Density

EUT Model No. DK212

RBW = 3KHz VBW = 30KHz Sweep time : Auto

MODE : CCK

Channel	Polarity (H/V)	Frequency (MHz)	Level (dBm)	Limit (dBm)	Pass/Fail
1	H	2411.30	-0.13	8	Pass
	V	2414.06	-11.79	8	Pass
6	H	2438.48	-14.52	8	Pass
	V	2436.33	-19.80	8	Pass
11	H	2461.33	-15.05	8	Pass
	V	2461.33	-23.23	8	Pass

MODE : OFDM

Channel	Polarity (H/V)	Frequency (MHz)	Level (dBm)	Limit (dBm)	Pass/Fail
1	H	2408.58	-18.87	8	Pass
	V	2407.27	-29.71	8	Pass
6	H	2440.18	-19.99	8	Pass
	V	2440.18	-28.85	8	Pass
11	H	2463.58	-21.57	8	Pass
	V	2466.37	-31.49	8	Pass

Note:

1. "S.P. read" means spectrum analyzer read power density .
2. "C.F." means correct factor = antenna factor + cable loss – Preamplifier Gain .
3. "Level" means power spectral density .

$$E.R.P. = (E d)^2 / 30G$$

where E (V) = S.P. read + C.F.

d (m) = measurement distance = 3m

G = 1 (the gain of the transmitting antenna over isotropic antenna)

Example :

If Level = 120 dBuV/m

$$10^{(120/20)} \times 10^{-6} = 1 \text{ V}$$

$$E.R.P. = (1 \times 3)^2 / 30 = 300 \text{ mW} = 10 \text{ Log } (300\text{mW}/1\text{mW}) = 24.77\text{dBm}$$

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FCC ID : SYC0B390C02

REPORT NO. : E930665

8.2 Spectrum Plot Data

Channel : CH.1

Polarity : Horizontal

Mode : CCK

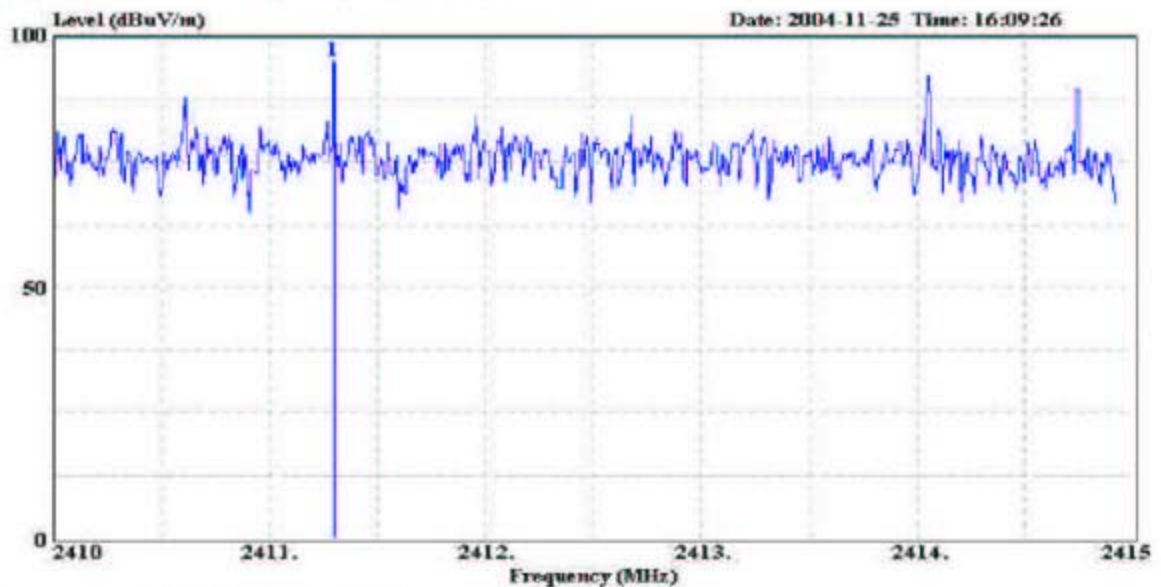


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PEP Testing Laboratory

Data#: 171

File#: C:\e3\客戶測試\無線RF.EMI

Date: 2004-11-25 Time: 16:09:26



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.1
Mode : CCK

Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
		Limit	Line	Level	Factor	Loss	Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2411.300	95.10	-----	97.21	25.48	4.08	34.67	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Vertical

Mode : CCK

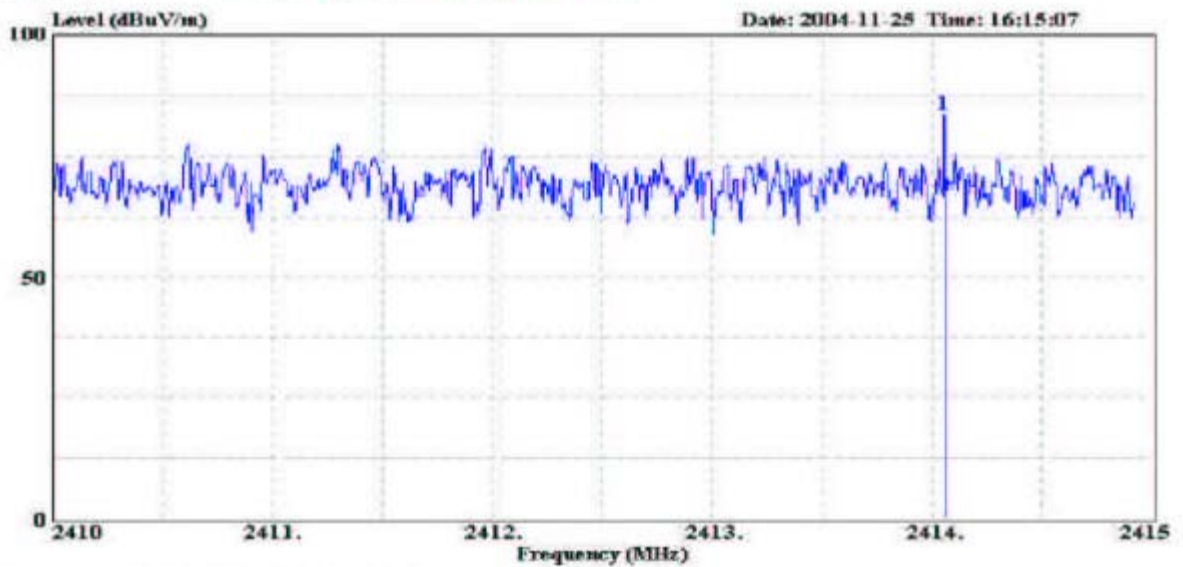


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Data#: 172

File#: C:\e3\客戶測試\聯德RF.EHT

Date: 2004-11-25 Time: 16:15:07



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.1
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
			Limit	Line					
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2414.060	83.44	-----	-----	85.55	28.48	-4.08	34.57	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Horizontal

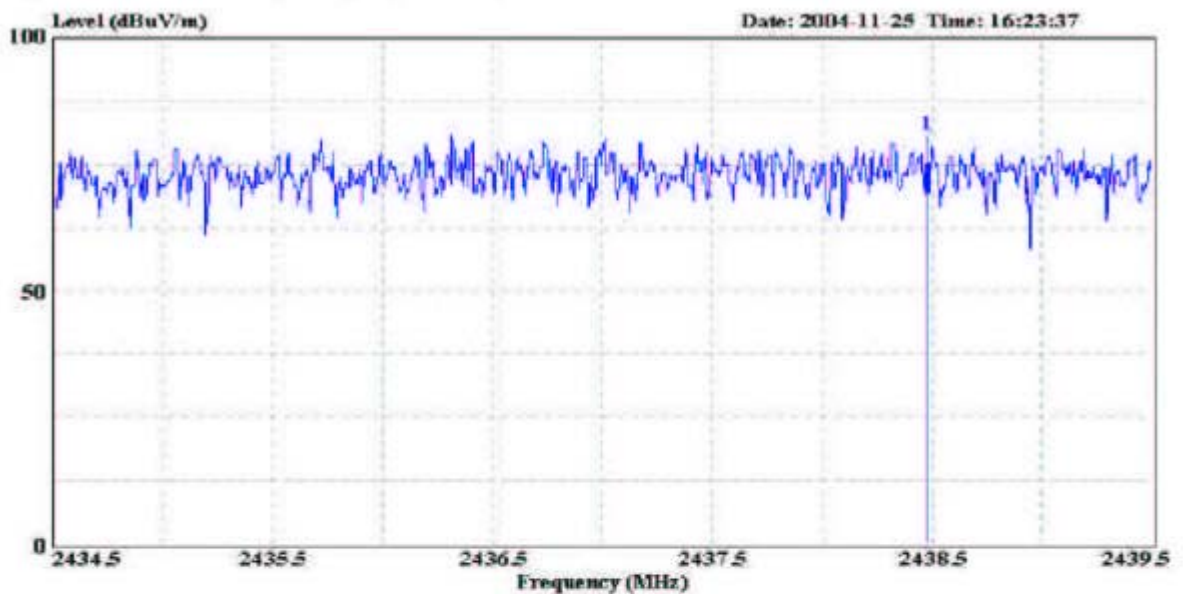
Mode : CCK



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PEP Testing Laboratory

Data#: 173

File#: C:\e3\客戶測試\轉場RF.ZHI



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.6
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
			Limit	Line					
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB
1	2438.480	80.71	-----	-----	82.75	28.58	-4.11	34.68	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Vertical

Mode : CCK

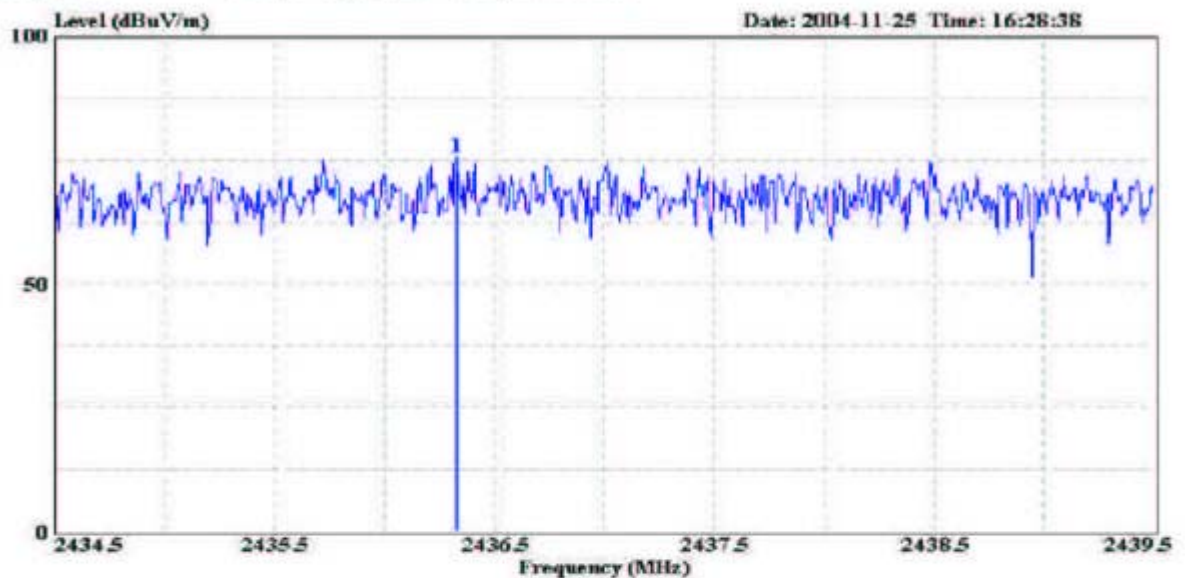


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Data#: 174

File#: C:\e3\客戶測試\聯瑞RF.EHT

Date: 2004-11-25 Time: 16:28:38



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.6
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark
	dB	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	2436.330	75.43	-----	-----	77.47	28.53	-4.11	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Horizontal

Mode : CCK

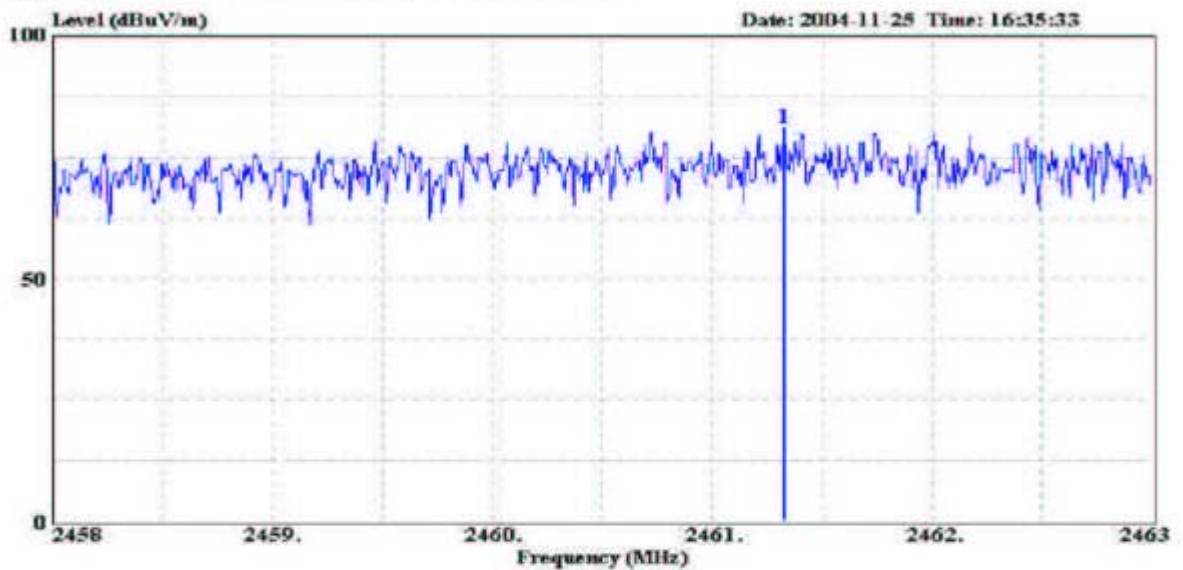


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PEP Testing Laboratory

Data#: 175

File#: C:\e3\客戶測試\聯瑞RF.EMI

Date: 2004-11-25 Time: 16:35:33



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.11
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB	dB	dB	
1	2461.330	81.08	-----	-----	83.08	28.55	4.14	34.89	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Vertical

Mode : CCK

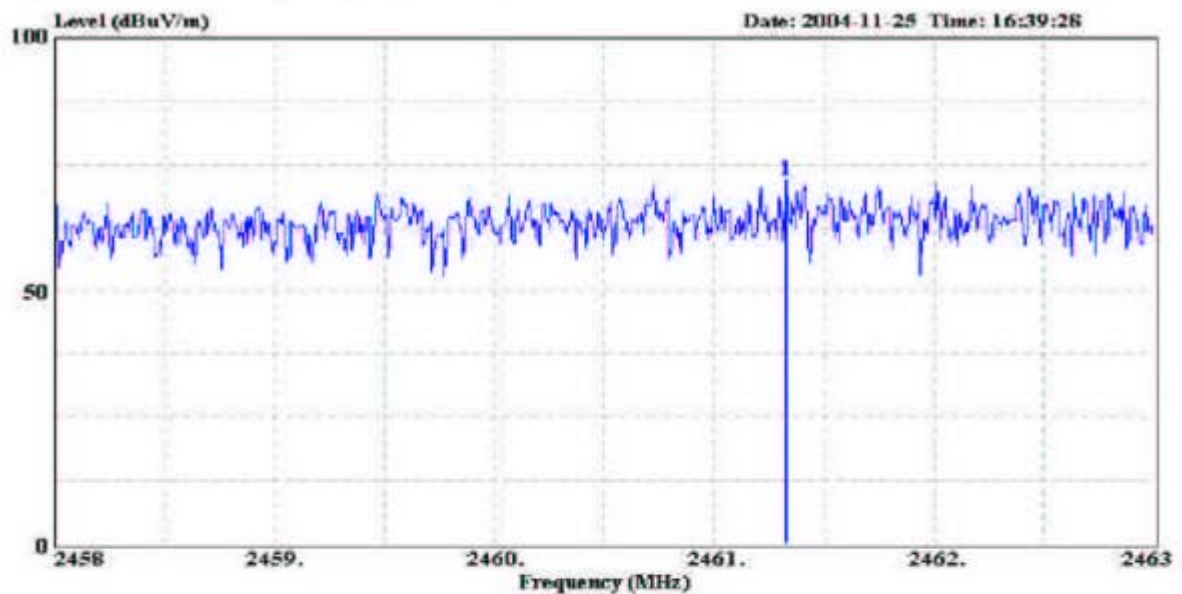


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PEP Testing Laboratory

Data#: 176

File#: C:\e3\客戶測試\聯瑞RF.EMI

Date: 2004-11-25 Time: 16:39:28



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.11
Mode : CCK

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
			Limit	Line	Level	Factor	Loss	Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2461.330	72.00	-----	-----	74.00	28.55	4.14	34.59	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Horizontal

Mode : OFDM

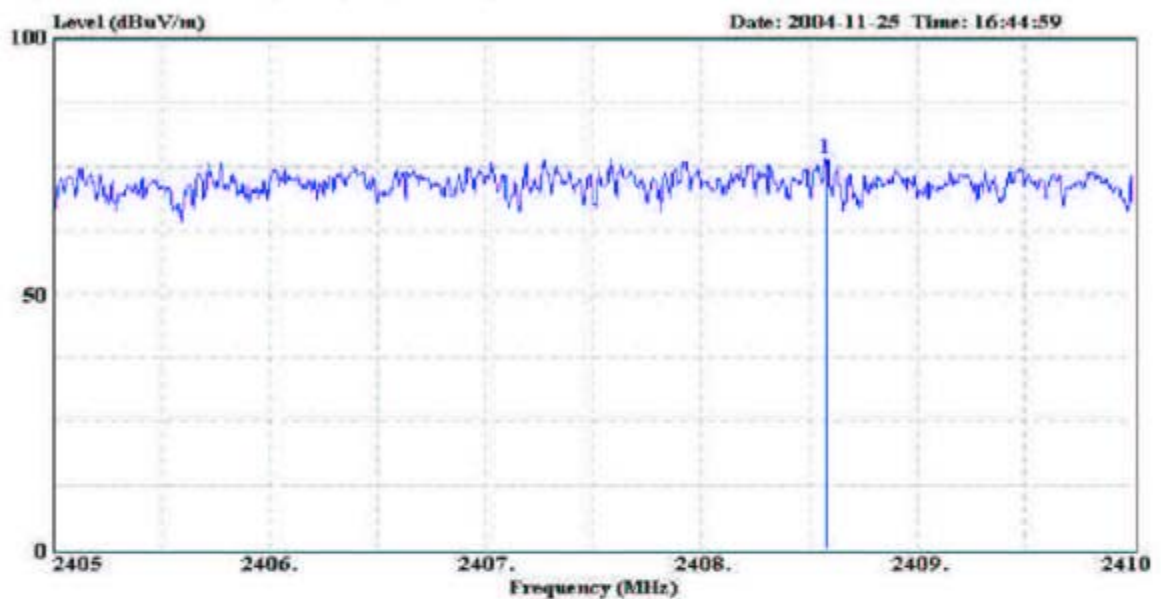


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Data# : 177

File# : C:\e3\客戶測試\聯瑞RF.EMI

Date: 2004-11-25 Time: 16:44:59



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.1
Mode : OFDM

Freq	Level	Over Limit		Read Probe		Cable Preamp		Remark
		Limit	Line	Level Factor	Loss Factor	Loss Factor	Loss Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2408.580	75.36	-----	78.47	25.48	-4.08	34.57	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.1

Polarity : Vertical

Mode : OFDM

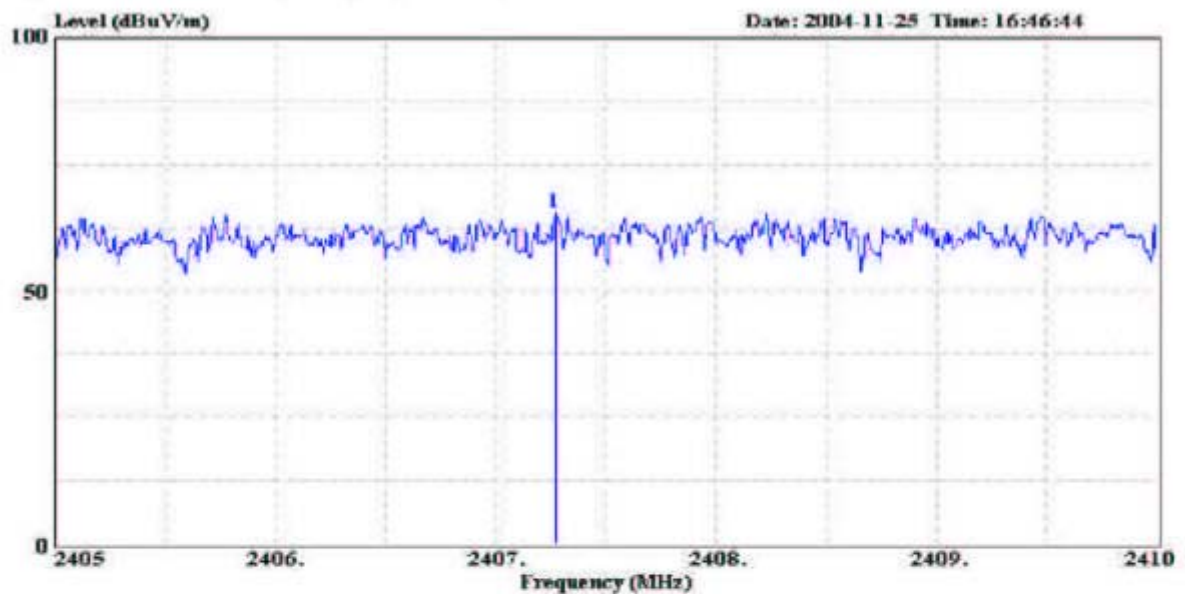


緯鑫科技股份有限公司
PEP Testing Laboratory

Data#: 178

File#: C:\e3\客戶測試\聯揚RF.EMI

Date: 2004-11-25 Time: 16:46:44



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.1
Mode : OFDM

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
			Limit	Line	Level	Factor	Loss	Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2407.270	65.52	-----	-----	57.63	28.48	4.08	34.57	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Horizontal

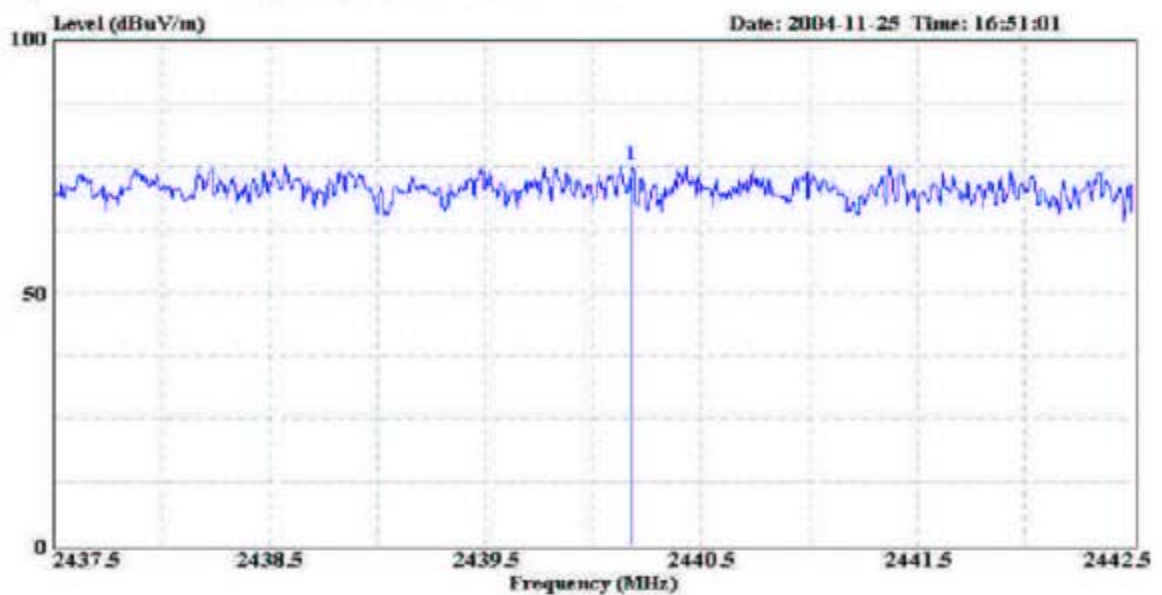
Mode : OFDM



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PEP Testing Laboratory

Data#: 179

File#: C:\e3\客戶測試\聯瑞RF.EMI



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.6
Mode : OFDM

	Freq	Level	Over Limit		Read Level	Probe Factor	Cable Preamp		Remark
			Limit	Line			Loss Factor	dB	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2440.180	75.24	-----	-----	77.26	28.53	4.13	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.6

Polarity : Vertical

Mode : OFDM

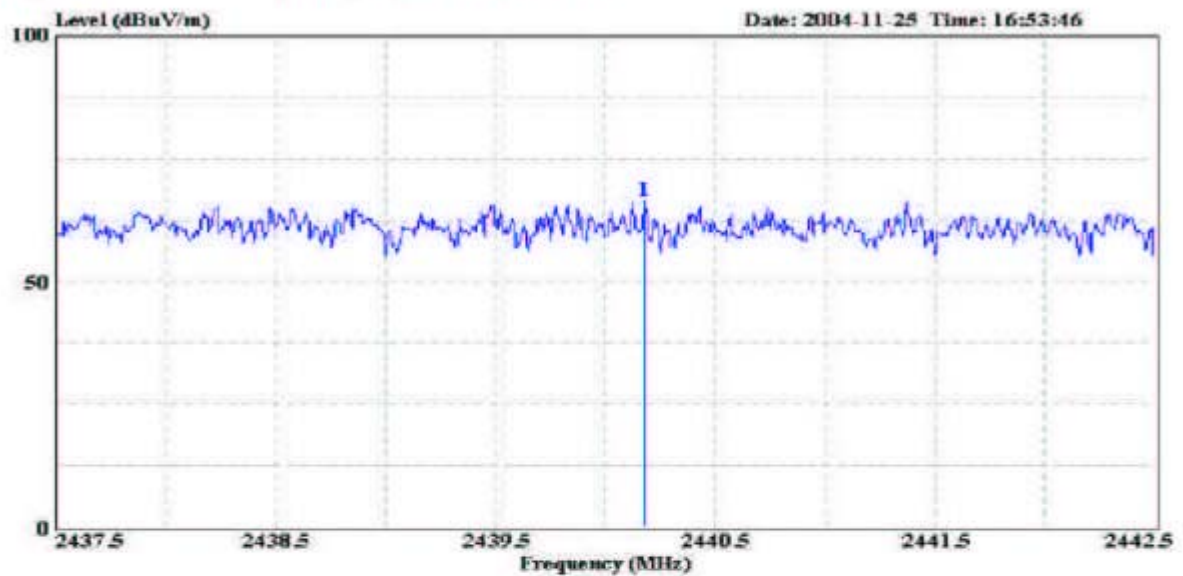


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PEP Testing Laboratory

Data#: 180

File#: C:\e3\客戶測試\聯瑞RF.ZMI

Date: 2004.11.25 Time: 16:53:46



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.6
Mode : OFDM

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Preamp		Remark
		dB	dBuV/m			Loss	Factor	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1 2440.180	65.38	-----	-----	68.40	28.53	-4.13	34.68	

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FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Horizontal

Mode : OFDM

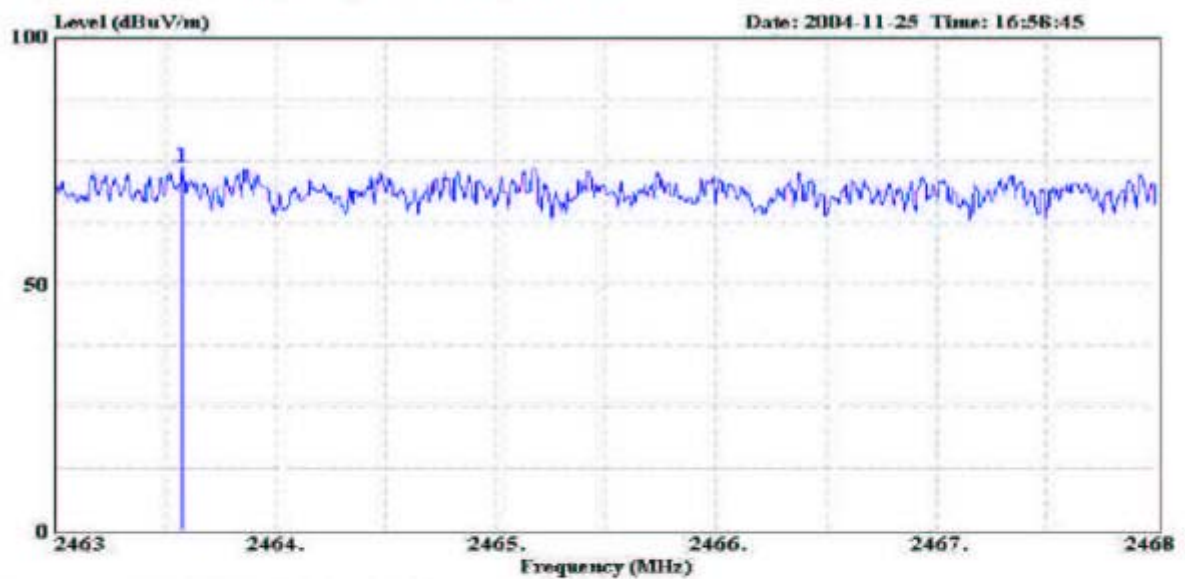


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PEP Testing Laboratory

Data#: 181

File#: C:\e3\客戶測試\聯揚RF.EMI

Date: 2004-11-25 Time: 16:58:45



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA H.3 HORIZONTAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.11
Mode : OFDM

	Freq	Level	Over	Limit	Read	Probe	Cable	Preamp	Remark
			Limit	Line		Factor	Loss	Factor	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2463.580	73.66	-----	-----	75.65	28.55	4.15	34.59	

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

Channel : CH.11

Polarity : Vertical

Mode : OFDM

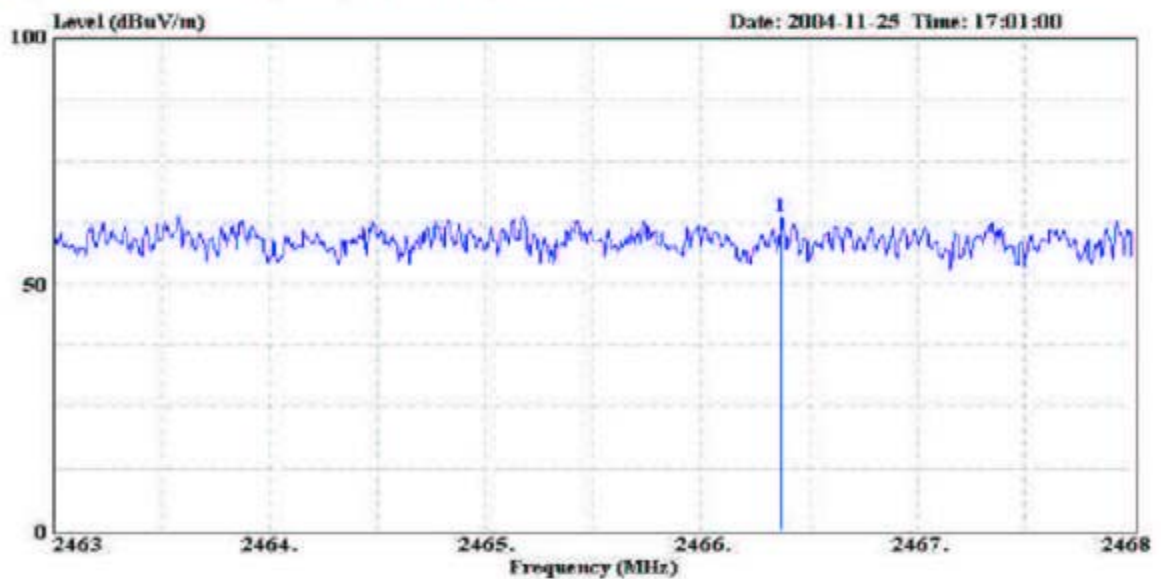


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PEP Testing Laboratory

Data#: 182

File#: C:\e3\客戶測試\靜場RF.EMI

Date: 2004-11-25 Time: 17:01:00



Site : Shih-Chi : Chamber No.3
Condition : 3m HORN ANTENNA V.3 VERTICAL
EUT : E930655
Power : AC 120V 60Hz
Memo : Peak Value
Memo : CH.11
Mode : OFDM

	Freq	Level	Over Limit		Read Level	Probe Factor	Cable Preamp		Remark
			Limit	Line			Loss Factor	dB	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	2466.370	63.74	-----	-----	55.71	25.55	-4.17	34.59	

IX. Antenna Requirement

9.1 Standard Applicable

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

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

9.2 Antenna Connected Construction

The antenna used in this product is Dipole Antenna. The antenna connector type is IPEX. The maximum Gain of this antenna is 2dBi.

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FCC ID : SYC0B390C02

REPORT NO. : E930665

X. List of Test Instruments

Test Mode	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval
Conduction (No.1)	R & S Receiver	ESHS10	830223/008	May 22, 2005	1Year
	Rolf Heine LISN	NNB-4/63TL	98008	May 01, 2005	1Year
	R & S LISN	ESH3-Z5	844982/039	Aug. 06, 2005	1Year
	Spectrum Analyzer	R3261A	91720076	June 08, 2005	1Year
	RF Cable	Rg400	N/A	May 12, 2005	1Year
	Schaffner ISN	T411	N/A	June 29, 2005	1Year
Radiation (OP No.3)	R & S Receiver	ESBI	845658/003	July 28, 2005	1Year
	Schaffner Pre-Amp.	CPA-9232	1012	Aug. 20, 2005	1Year
	SCJWARZBECL Antenna	VULB9161	D-69250	May 19, 2005	1Year
	COM-Power Horn Ant.	AH-118 (1GHz~18GHz)	10095	May 25, 2005	1Year
	RF Cable	No.2	N/A	Feb. 19, 2005	1Year
	SCHWARZBECK Precision Dipole Ant.	VHAP (30MHz~1GHz)	970+971 953+954	June 26, 2006	3Year
	R & S Signal Generator	SMY01	829846/038	Feb. 16, 2005	2Year
Chamber (No. 3)	Spectrum Analyzer	FSP 30	100157	Aug. 30, 2005	1Year
	Pre-Amplifier	CPA-9232	1027	Feb. 24, 2005	1Year
	Antenna	VULB9160	3074	July 24, 2005	1Year
	Signal Generator	SMY02	829846/0358	Jane 29, 2005	2Year
	RF Cable	NO.3	N/A	Feb. 19, 2005	1Year
	HORN ANTENNA	AH-118	10095	May 13, 2005	1Year

XI. EUT Photos

Model No. : DK212



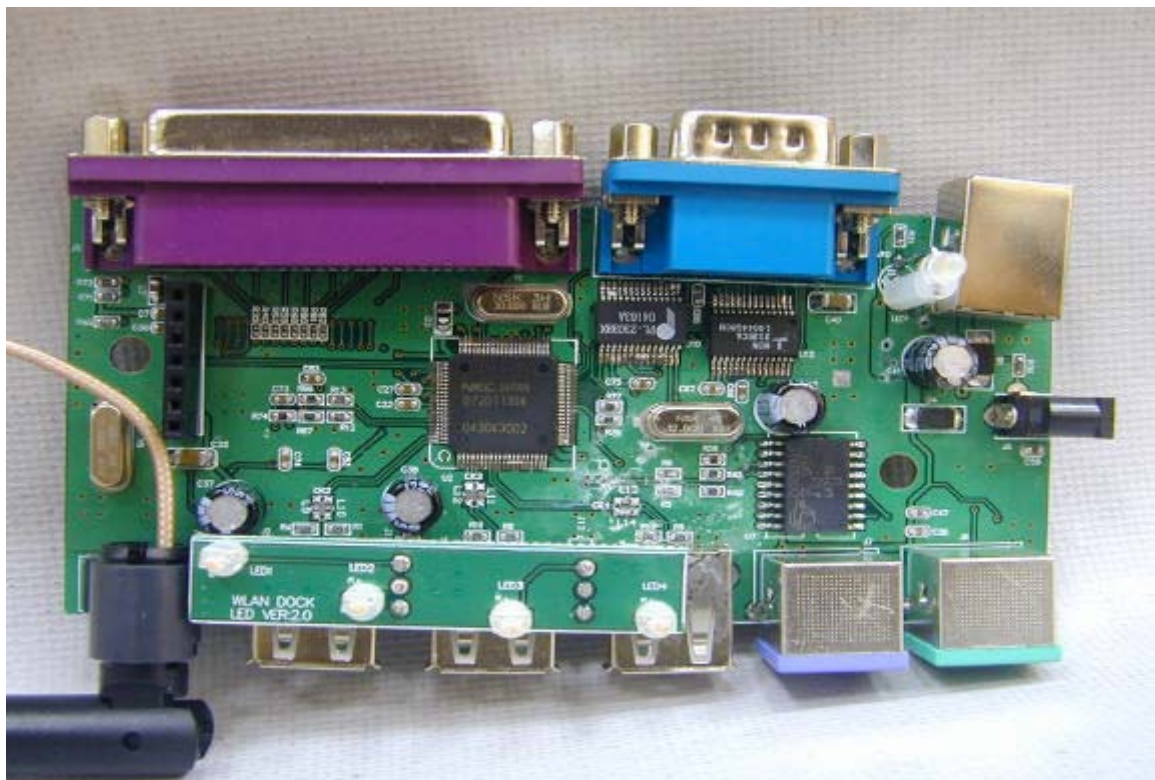
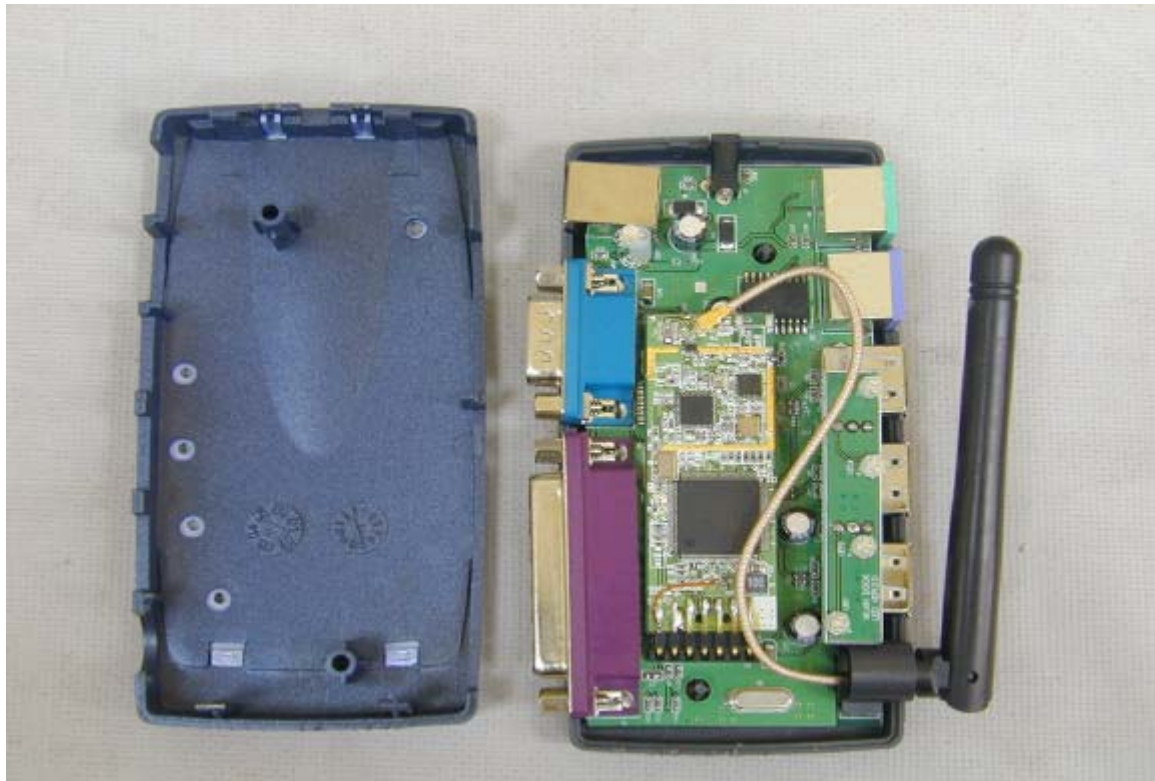
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FCC ID : SYC0B390C02

REPORT NO. : E930665



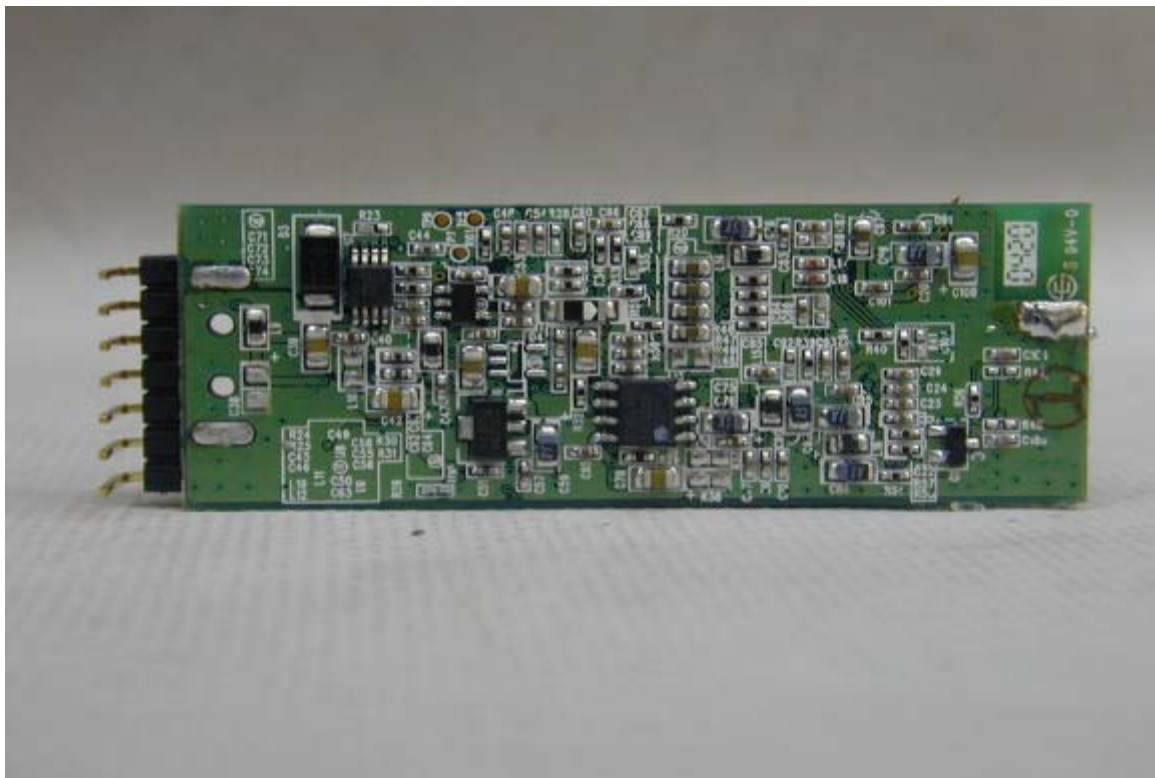
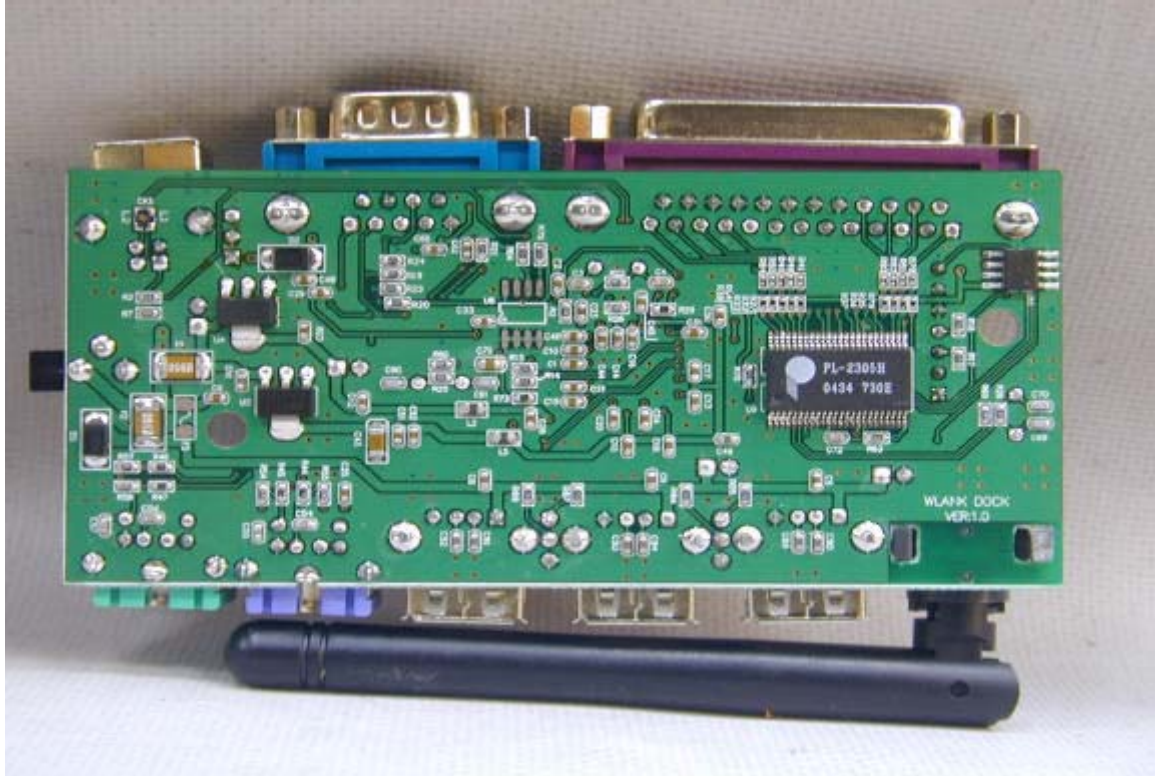
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FCC ID : SYC0B390C02

REPORT NO. : E930665



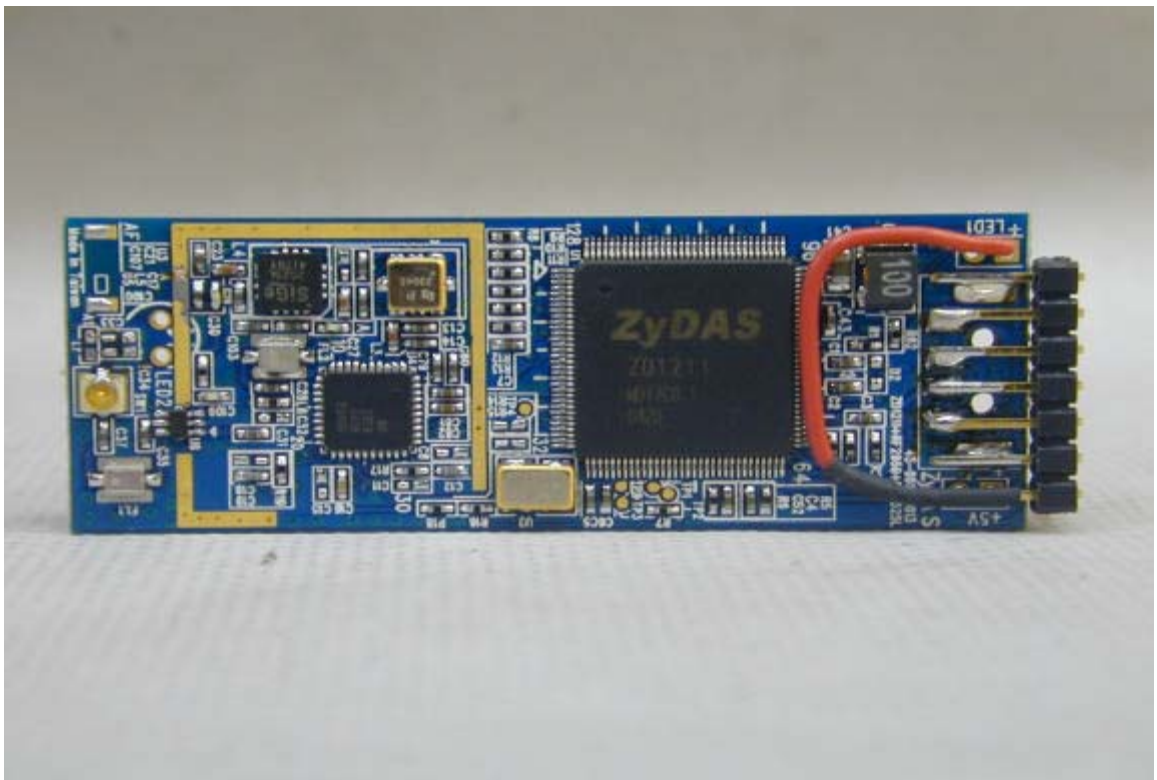
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REPORT NO. : E930665



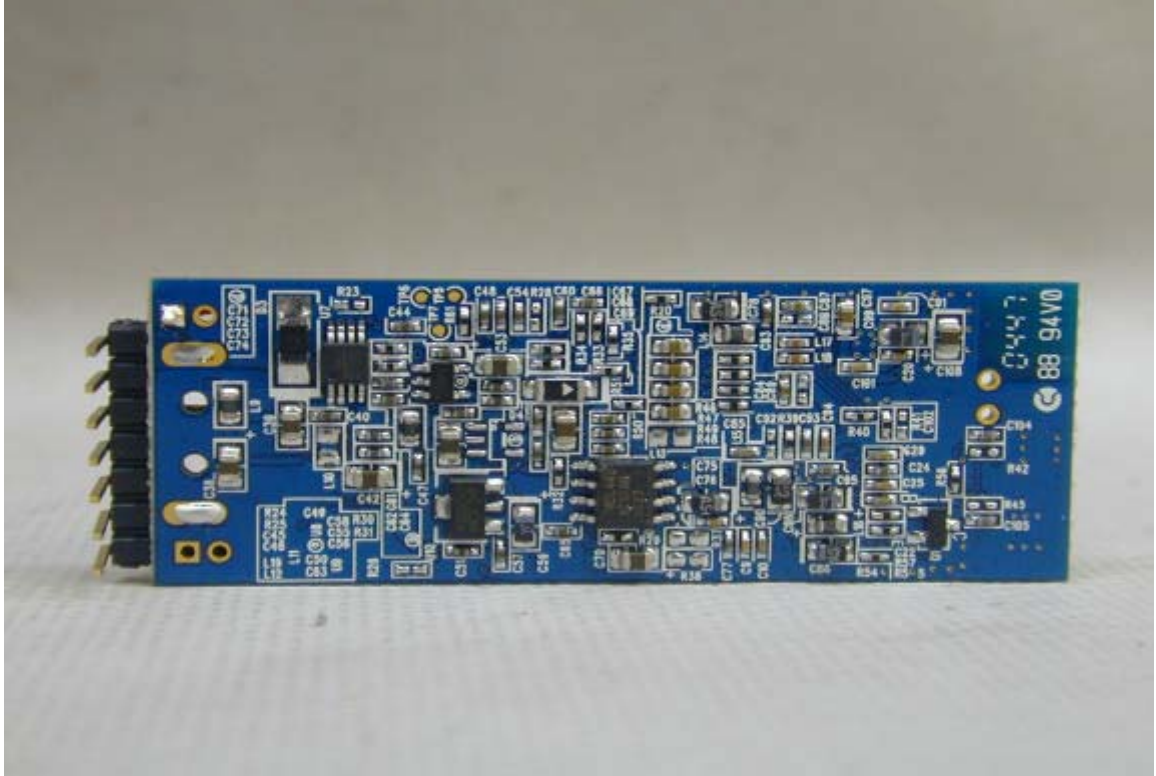
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FCC ID : SYC0B390C02

REPORT NO. : E930665

Model No. : DK211



PEP Testing Laboratory

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TEL: 886-2-26922097 FAX: 886-2-26956236

FCC ID : SYC0B390C02

REPORT NO. : E930665

MODEL NO. : DK213

