RADIO TEST REPORT

REPORT NO.: RE941208L11
MODEL NO.: SDC-CF10G
RECEIVED: Mar. 21, 2006
TESTED: Mar. 22 ~ Apr. 18, 2006
ISSUED: Apr. 20, 2006

APPLICANT: Summit Data Communications, Inc.

ADDRESS: 526 South Main Street Suite 411, Akron, Ohio, 44311 United States

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien, Taiwan, R.O.C.

ACCREDITED
No. 2177-01

0528

Table of Contents

1 CERTIFICATION

PRODUCT:	SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors
MODEL:	SDC-CF10G
BRAND:	Summit
APPLICANT:	Summit Data Communications, Inc.
TESTED:	Mar. 22 ~ Apr. 18, 2006
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**EN 300 328 V1.6.1 (2004-11)**

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY	: Jessie Wang	, **DATE:**	Apr. 20, 2006
TECHNICAL ACCEPTANCE Responsible for RF	: Stanley Hsu	, **DATE:**	Apr. 20, 2006
APPROVED BY	: Gary Chang / Supervisor	, **DATE:**	Apr. 20, 2006

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

EN 300 328 V1.6.1			
Clause	**Test Parameter**	**Remarks**	**Pass/Fail**
	TRANSMITTER PARAMETERS		
4.3.1	Equivalent Isotropic Radiated Power (Radiated)	Applicable	Pass
4.3.1	Equivalent Isotropic Radiated Power (Conducted)	Not Applicable	NA
4.3.2	Peak Power Density (Radiated)	Applicable	Pass
4.3.2	Peak Power Density (Conducted)	Not Applicable	NA
4.3.3	Frequency Range of Equipment Using FHSS Modulation	Not Applicable	NA
4.3.3	Frequency Range of Equipment Using Other Forms Of Modulation	Applicable	Pass
4.3.4	Spurious Emissions (Operating – Radiated)	Applicable	Pass
4.3.4	Spurious Emissions (Standby – Radiated)	See Note 1	Pass
4.3.4	Spurious Emissions (Operating – Conducted)	Not Applicable	NA
4.3.4	Spurious Emissions (Standby – Conducted)	See Note 1	NA
	RECEIVER PARAMETERS		
4.3.5	Spurious Emissions (Radiated)	Applicable	Pass
4.3.5	Spurious Emissions (Conducted)	Not Applicable	NA

NOTE: 1. The emission of the transmitter on standby mode is equal to that of receiving mode.
2. Additional Ch.1 (2412MHz) ~ Ch.7 (2442MHz) for 802.11b/g was recorded, for showing effective use frequency spectrum on France.

2.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY44360128	Dec. 06, 2006
BILOG Antenna SCHWARZBECK	VULB 9168	9168-157	Jan. 15, 2007
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 27, 2006
Signal Generator Agilent	E8257C	MY43320668	Dec. 07, 2006
Preamplifier Agilent	8449B	3008A01963	Nov. 29, 2006
Preamplifier Agilent	8447D	2944A10627	Nov. 29, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	222685/4	Dec. 13, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	230127/4	Dec. 13, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower Inn-co GmbH	MA 4000	MA 4000/012/6150303/L	NA
Turn Table ADT	NA	SN40303	NA
Controller TDK RF.	SI-300	130009	NA
Temperature & Humidity chamber TERCHY	MHU-225AU	920842	Jul. 27, 2006

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa RF Chamber 1.

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

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Parameter	Uncertainty
Radio frequency	±1.132x10^{-6}
All emissions, radiated	±3.281dB
Temperature	±0.5°C
Humidity	±3%
DC and low frequency voltages	±0.04%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.3 MAXIMUM MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [4] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Maximum measurement uncertainty

Parameter	Uncertainty
Radio frequency	±1x10^{-5}
All emissions, radiated	±6.0 dB
Temperature	±1°C
Humidity	±5.0 %
DC and low frequency voltages	±3.0 %

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors
MODEL NO.	SDC-CF10G
SOURCE VOLTAGE	V_{nom}= 230 V_{min}= 207 V_{max}= 253
POWER SUPPLY	3.3Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
NUMBER OF CHANNEL	7 for France 13 for other EU countries
OPERATING FREQUENCY	2400 ~ 2454MHz for France, 2400 ~ 2483.5MHz for other EU countries
EIRP POWER (FOR 802.11b)	15.83dBm (Measured Max. Average)
EIRP POWER (FOR 802.11g)	15.81dBm (Measured Max. Average)
ANTENNA TYPE	Refer to Note 1 as below
I/O PORTS	NA
DATA CABLE	NA

NOTE:

1. There are 3 antennas provided to this EUT. The information about those antennas as below table:

ANTENNA NO.	MODEL NAME	TYPE	GAIN	TYPE OF ANTENNA CONNECTOR
1	-	Dipole	2.2dBi	UFL
2	**VMT**	**Dipole**	**2.2dBi**	**UFL**
3	**MX3**	**Printed**	**0dBi**	**UFL**

* After pre-test for each type of antenna and chosen the antenna 2 & 3 for final test and recorded.

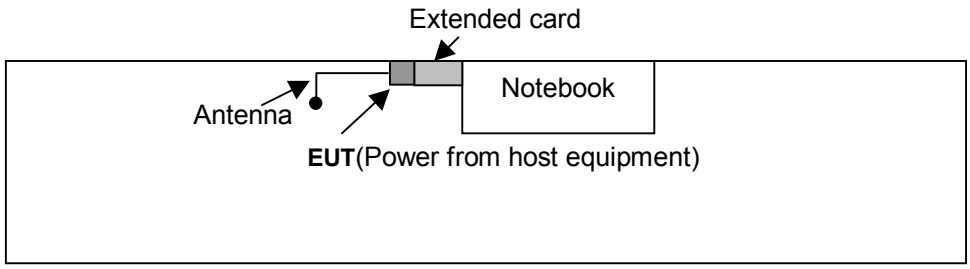
2. The platform: (1) Mobile Data Terminals (MDTs), (2) Vehicle Mounted Devices(VMDs)
3. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
4. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Thirteen channels are provided to the EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO					DESCRIPTION
	EIRP	PPD	FR	SE<1G	SE≥1G	
A	√	√	√	√	√	Dipole antenna with 2.2dBi gain (VMT)
B	√	√	√	√	√	Printed antenna with 0dBi gain

Where **EIRP:** Equivalent Isotropic Radiated Power **PPD:** Peak Power Density

FR: Frequency Range **SE<1G:** Spurious Emissions below 1GHz

SE≥1G: Spurious Emissions above 1GHz

EQUIVALENT ISOTROPIC RADIATED POWER:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 4, 7, 13	DSSS	DBPSK	1
B	802.11b	1 to 13	1, 4, 7, 13	DSSS	DBPSK	1
A	802.11g	1 to 13	1, 4, 7, 13	OFDM	BPSK	6
B	802.11g	1 to 13	1, 4, 7, 13	OFDM	BPSK	6

PEAK POWER DENSITY TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 4, 7, 13	DSSS	DBPSK	1
B	802.11b	1 to 13	1, 4, 7, 13	DSSS	DBPSK	1
A	802.11g	1 to 13	1, 4, 7, 13	OFDM	BPSK	6
B	802.11g	1 to 13	1, 4, 7, 13	OFDM	BPSK	6

FREQUENCY RANGE TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1
B	802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1
A	802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6
B	802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6

SPURIOUS EMISSIONS TEST (BELOW 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1	DSSS	DBPSK	1
B	802.11b	1 to 13	1	DSSS	DBPSK	1
A	802.11g	1 to 13	1	OFDM	BPSK	6
B	802.11g	1 to 13	1	OFDM	BPSK	6
A	Receiver	1 to 13	1	DSSS	DBPSK	1
B	Receiver	1 to 13	1	DSSS	DBPSK	1

SPURIOUS EMISSIONS TEST (ABOVE 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1
B	802.11b	1 to 13	1, 7, 13	DSSS	DBPSK	1
A	802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6
B	802.11g	1 to 13	1, 7, 13	OFDM	BPSK	6
A	Receiver	1 to 13	1, 7, 13	DSSS	DBPSK	1
B	Receiver	1 to 13	1, 7, 13	DSSS	DBPSK	1

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a SDC-CF10G 802.11g Compact Flash Module with Antenna Connectors, according to the specifications of the manufacturers, it must comply with the requirements of the following standards:

EN 300 328 V1.6.1 (2004-11)

All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	25191592336	E2K24CLNS

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

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

4 TEST PROCEDURES AND RESULTS

TRANSMITTER PARAMETERS

4.1 EQUIVALENT ISOTROPIC RADIATED POWER

4.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Condition	Limit (e.i.r.p)
Under all test conditions	AV: 20 dBm / -10 dBW

4.1.2 TEST PROCEDURE

Reference to chapter 5.7 of ETSI EN 300 328 V1.6.1 (2004-11).

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP

The test setup has been constructed as the normal use condition. Plugged EUT into notebook system and placed on the turn-table. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

4.1.5 TEST RESULTS

802.11b DSSS MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH7) 2442 MHz**		**(CH13) 2472 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	17.20	15.61	16.86	15.50	16.36	14.94
Tmin(℃)	-20	Vmin(v)	207 V	17.39	**15.83**	17.11	15.75	16.68	15.13
		Vmax(v)	253 V	17.40	15.80	17.13	15.78	16.65	15.12
Tmax(℃)	55	Vmin(v)	207 V	16.74	15.20	16.35	14.88	16.10	14.56
		Vmax(v)	253 V	16.76	15.24	16.25	14.75	15.96	14.44

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only channel 1, 7 and 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH4) 2427 MHz**		**(CH7) 2442 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	17.20	15.61	16.78	15.53	16.86	15.50
Tmin(℃)	-20	Vmin(v)	207 V	17.39	**15.83**	16.99	15.81	17.11	15.75
		Vmax(v)	253 V	17.40	15.80	17.00	15.79	17.13	15.78
Tmax(℃)	55	Vmin(v)	207 V	16.74	15.20	16.61	15.28	16.35	14.88
		Vmax(v)	253 V	16.76	15.24	16.63	15.33	16.25	14.75

Note: 1. For France market, channel 1 ~ 7 are allowed. So, only channel 1, 4 and 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH7) 2442 MHz**		**(CH13) 2472 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	15.05	13.55	14.61	13.13	14.13	12.78
Tmin(℃)	-20	Vmin(v)	207 V	15.24	13.77	14.86	13.38	14.45	12.97
		Vmax(v)	253 V	15.25	13.74	14.88	13.41	14.42	12.96
Tmax(℃)	55	Vmin(v)	207 V	14.59	13.14	14.10	12.51	13.87	12.40
		Vmax(v)	253 V	14.61	13.18	14.00	12.38	13.73	12.28

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only channel 1, 7 and 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH4) 2427 MHz**		**(CH7) 2442 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	15.05	13.55	14.48	13.24	14.61	13.13
Tmin(℃)	-20	Vmin(v)	207 V	15.24	13.77	14.69	13.52	14.86	13.38
		Vmax(v)	253 V	15.25	13.74	14.70	13.50	14.88	13.41
Tmax(℃)	55	Vmin(v)	207 V	14.59	13.14	14.31	12.99	14.10	12.51
		Vmax(v)	253 V	14.61	13.18	14.33	13.04	14.00	12.38

Note: 1. For France market, channel 1 ~ 7 are allowed. So, only channel 1, 4 and 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

802.11g OFDM MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH7) 2442 MHz**		**(CH13) 2472 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	17.36	15.30	16.96	15.22	17.16	15.08
Tmin(℃)	-20	Vmin(v)	207 V	17.59	15.51	17.31	15.55	17.55	15.36
		Vmax(v)	253 V	17.60	15.48	17.33	15.58	17.52	15.35
Tmax(℃)	55	Vmin(v)	207 V	17.10	14.92	16.79	14.77	17.00	14.83
		Vmax(v)	253 V	17.12	14.96	16.69	14.64	16.86	14.71

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only channel 1, 7 and 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH4) 2427 MHz**		**(CH7) 2442 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	17.36	15.30	17.26	15.33	16.96	15.22
Tmin(℃)	-20	Vmin(v)	207 V	17.59	15.51	17.68	**15.81**	17.31	15.55
		Vmax(v)	253 V	17.60	15.48	17.69	15.79	17.33	15.58
Tmax(℃)	55	Vmin(v)	207 V	17.10	14.92	17.09	14.99	16.79	14.77
		Vmax(v)	253 V	17.12	14.96	17.11	15.04	16.69	14.64

Note: 1. For France market, channel 1 ~ 7 are allowed. So, only channel 1, 4 and 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH7) 2442 MHz**		**(CH13) 2472 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	15.13	12.90	14.56	12.91	14.95	12.80
Tmin(℃)	-20	Vmin(v)	207 V	15.36	13.11	14.91	13.24	15.34	13.08
		Vmax(v)	253 V	15.37	13.08	14.93	13.27	15.31	13.07
Tmax(℃)	55	Vmin(v)	207 V	14.87	12.52	14.39	12.46	14.79	12.55
		Vmax(v)	253 V	14.89	12.56	14.29	12.33	14.65	12.43

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only channel 1, 7 and 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

TEST CONDITION				**EIRP POWER (dBm)**					
				(CH1) 2412 MHz		**(CH4) 2427 MHz**		**(CH7) 2442 MHz**	
				PK	**AV**	**PK**	**AV**	**PK**	**AV**
Tnom(℃)	20	Vnom(v)	230 V	15.13	12.90	15.02	13.05	14.56	12.91
Tmin(℃)	-20	Vmin(v)	207 V	15.36	13.11	15.44	13.53	14.91	13.24
		Vmax(v)	253 V	15.37	13.08	15.45	13.51	14.93	13.27
Tmax(℃)	55	Vmin(v)	207 V	14.87	12.52	14.85	12.71	14.39	12.46
		Vmax(v)	253 V	14.89	12.56	14.87	12.76	14.29	12.33

Note: 1. For France market, channel 1 ~ 7 are allowed. So, only channel 1, 4 and 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

3. PK value is for reporting purpose only. There is no limit.

4.2 PEAK POWER DENSITY (RADIATED)

4.2.1 LIMIT OF PEAK POWER DENSITY

Condition	Limit (EIRP)
Under all test conditions	10dBm / 1MHz

4.2.2 TEST PROCEDURE

Reference to chapter 5.7 of ETSI EN 300 328 V1.6.1 (2004-11).

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

The test setup has been constructed as the normal use condition. Plugged EUT into notebook system and placed on the turn-table. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

4.2.5 TEST RESULTS

802.11b DSSS MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2410.02	5.80 / 1000	10 / 1000	PASS
7	2438.50	5.64 / 1000	10 / 1000	PASS
13	2462.58	5.05 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2410.02	5.80 / 1000	10 / 1000	PASS
4	2426.42	5.82 / 1000	10 / 1000	PASS
7	2438.50	5.64 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2410.97	3.57 / 1000	10 / 1000	PASS
7	2440.97	3.34 / 1000	10 / 1000	PASS
13	2470.97	2.90 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2410.97	3.57 / 1000	10 / 1000	PASS
4	2425.47	3.47 / 1000	10 / 1000	PASS
7	2440.97	3.34 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

802.11g OFDM MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2413.05	5.44 / 1000	10 / 1000	PASS
7	2447.83	5.30 / 1000	10 / 1000	PASS
13	2467.52	5.32 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**A**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2413.05	5.44 / 1000	10 / 1000	PASS
4	2422.23	5.41 / 1000	10 / 1000	PASS
7	2447.83	5.30 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2417.23	3.15 / 1000	10 / 1000	PASS
7	2447.23	3.03 / 1000	10 / 1000	PASS
13	2471.33	3.02 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**DUTY CYCLE OF EUT**	100%
TEST MODE	**B**	**TESTED BY**	Bruce Chang

Channel	Channel Frequency (MHz)	RF Power (dBm/kHz) (E.I.R.P)	Limit (dBm/kHz) (E.I.R.P)	PASS/FAIL
1	2417.23	3.15 / 1000	10 / 1000	PASS
4	2422.60	3.24 / 1000	10 / 1000	PASS
7	2447.23	3.03 / 1000	10 / 1000	PASS

NOTE: The power density shall be limit to -20dBW(10mW) per 1MHz E.I.R.P.

4.3 FREQUENCY RANGE (RADIATED)

4.3.1 LIMITS OF FREQUENCY RANGE

Condition	Country	Limit
Under all test conditions	EU	F_L > 2400.0MHz F_H < 2483.5MHz
	France	F_L > 2400.0MHz F_H < 2454.0MHz

4.3.2 TEST PROCEDURE

Reference to chapter 5.7 of ETSI EN 300 328 V1.6.1 (2004-11).

4.3.3 DEVIATION FROM TEST STANDARD

No deviation

4.3.4 TEST SETUP

The EUT and probe antenna were placed into the temperature oven. The probe has to be connected with spectrum analyzer. The power source of the EUT has to be connected with the power supply for voltage change. The frequency has to be recorded for the right and left end above threshold of highest and lowest channel respectively.

4.3.5 TEST RESULTS

802.11b DSSS MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**A**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.96	2480.05
Tmin	-20℃	Vmin(v)	207 V	2402.99	2480.54
		Vmax(v)	253 V	2402.98	2480.56
Tmax	+55℃	Vmin(v)	207 V	2403.06	2480.07
		Vmax(v)	253 V	2403.04	2480.07
Measured frequencies (lowest and highest)				F_L = 2402.96	F_H = 2480.56

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only lowest edge of channel 1 and highest edge of channel 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**A**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.96	2450.06
Tmin	-20℃	Vmin(v)	207 V	2402.99	2450.13
		Vmax(v)	253 V	2402.98	2450.15
Tmax	+55℃	Vmin(v)	207 V	2403.06	2450.07
		Vmax(v)	253 V	2403.04	2450.08
Measured frequencies (lowest and highest)				F_L = 2402.96	F_H = 2450.15

Note: 1. For France market, channel 1 ~ 7 are allowed. So lowest edge of channel 1 and highest edge of channel 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**B**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2403.19	2480.02
Tmin	-20℃	Vmin(v)	207 V	2403.14	2480.35
		Vmax(v)	253 V	2403.13	2480.36
Tmax	+55℃	Vmin(v)	207 V	2403.26	2479.95
		Vmax(v)	253 V	2403.24	2479.97
Measured frequencies (lowest and highest)				F_L = 2403.13	F_H = 2480.36

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only lowest edge of channel 1 and highest edge of channel 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**B**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2403.19	2450.01
Tmin	-20℃	Vmin(v)	207 V	2403.14	2450.05
		Vmax(v)	253 V	2403.13	2450.07
Tmax	+55℃	Vmin(v)	207 V	2403.26	2449.97
		Vmax(v)	253 V	2403.24	2449.98
Measured frequencies (lowest and highest)				F_L = 2403.13	F_H = 2450.07

Note: 1. For France market, channel 1 ~ 7 are allowed. So lowest edge of channel 1 and highest edge of channel 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

802.11g OFDM MODULATION

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**A**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.74	2481.34
Tmin	-20℃	Vmin(v)	207 V	2402.52	2481.42
		Vmax(v)	253 V	2402.51	2481.45
Tmax	+55℃	Vmin(v)	207 V	2402.76	2481.33
		Vmax(v)	253 V	2402.75	2481.34
Measured frequencies (lowest and highest)				F_L = 2402.51	F_H = 2481.45

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only lowest edge of channel 1 and highest edge of channel 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**A**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.74	2451.35
Tmin	-20℃	Vmin(v)	207 V	2402.52	2451.68
		Vmax(v)	253 V	2402.51	2451.70
Tmax	+55℃	Vmin(v)	207 V	2402.76	2451.33
		Vmax(v)	253 V	2402.75	2451.33
Measured frequencies (lowest and highest)				F_L = 2402.51	F_H = 2451.70

Note: 1. For France market, channel 1 ~ 7 are allowed. So lowest edge of channel 1 and highest edge of channel 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries except France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**B**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.87	2481.17
Tmin	-20℃	Vmin(v)	207 V	2402.65	2481.33
		Vmax(v)	253 V	2402.66	2481.35
Tmax	+55℃	Vmin(v)	207 V	2402.96	2481.09
		Vmax(v)	253 V	2402.95	2481.10
Measured frequencies (lowest and highest)				F_L = 2402.65	F_H = 2481.35

Note: 1. For all EU market except France, channel 1 ~ 13 are allowed. So, only lowest edge of channel 1 and highest edge of channel 13 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

FREQUENCY RANGE	2400 ~ 2454MHz (for France)	**MODULATION BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	26deg.C, 60%RH	**TEST MODE**	**B**
TESTED BY	Bruce Chang		

TEST CONDITIONS				**FREQUENCY (MHz)**	
				Lowest	**Highest**
Tnom	+20℃	Vnom(v)	230 V	2402.87	2451.23
Tmin	-20℃	Vmin(v)	207 V	2402.65	2451.56
		Vmax(v)	253 V	2402.66	2451.57
Tmax	+55℃	Vmin(v)	207 V	2402.96	2451.16
		Vmax(v)	253 V	2402.95	2451.18
Measured frequencies (lowest and highest)				F_L = 2402.65	F_H = 2451.57

Note: 1. For France market, channel 1 ~ 7 are allowed. So lowest edge of channel 1 and highest edge of channel 7 under extreme condition are recorded in the above table.

2. The EUT is a plug-in radio device and powered by the host. The test conditions are according to the clause 5.3 of EN 300 328.

4.4 TRANSMITTER SPURIOUS EMISSIONS (RADIATED)

4.4.1 LIMITS OF TRANSMITTER SPURIOUS EMISSIONS

Transmitter limits for narrowband spurious emissions

Frequency Range	Operating Limit	Standby Limit
30MHz ~ 1GHz	-36dBm	-57dBm
Above 1GHz ~ 12.75GHz	-30dBm	-47dBm
1.8~1.9GHz 5.15~5.3GHz	-47dBm	-47dBm

4.4.2 TEST PROCEDURE

Reference to chapter 5.7 of ETSI EN 300 328 V1.6.1 (2004-11).

4.4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4.4 TEST SETUP

1. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration).

2. The test setup has been constructed as the normal use condition. Plugged EUT into notebook system and placed on the turn-table. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

4.4.5 TEST RESULTS

802.11b DSSS MODULATION

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
83.10	H	-67.81	-36.00	-31.81
83.10	V	-72.25	-36.00	-36.25
102.00	V	-71.89	-36.00	-35.89
107.85	V	-67.12	-36.00	-31.12
116.40	V	-67.36	-36.00	-31.36
117.75	H	-70.94	-36.00	-34.94
120.45	V	-71.09	-36.00	-35.09
127.65	H	-69.88	-36.00	-33.88
129.90	V	-71.13	-36.00	-35.13
130.80	H	-69.67	-36.00	-33.67
140.70	V	-73.70	-36.00	-37.70
141.15	H	-70.14	-36.00	-34.14
152.40	H	-70.66	-36.00	-34.66
160.50	H	-70.57	-36.00	-34.57
171.30	V	-73.00	-36.00	-37.00
173.10	H	-69.55	-36.00	-33.55
174.90	V	-73.21	-36.00	-37.21
175.80	H	-68.12	-36.00	-32.12
199.65	H	-67.70	-36.00	-31.70
199.65	V	-71.99	-36.00	-35.99
219.90	H	-71.83	-36.00	-35.83

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
332.67	H	-68.17	-36.00	-32.17
465.67	H	-64.18	-36.00	-28.18
465.67	V	-65.05	-36.00	-29.05
804.00	H	-67.19	-36.00	-31.19
804.00	V	-62.45	-36.00	-26.45
879.83	V	-68.46	-36.00	-32.46
899.67	V	-69.99	-36.00	-33.99
909.00	H	-66.45	-36.00	-30.45
921.83	V	-69.68	-36.00	-33.68
949.83	V	-64.26	-36.00	-28.26
951.00	H	-63.27	-36.00	-27.27
960.33	V	-66.89	-36.00	-30.89
976.67	H	-69.21	-36.00	-33.21
993.00	H	-68.79	-36.00	-32.79
998.83	V	-68.69	-36.00	-32.69

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1, 7 & 13
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.99	H	-64.37	-30.00	-34.37
	1607.99	V	-64.07	-30.00	-34.07
	3215.96	H	-61.14	-30.00	-31.14
	3215.97	V	-54.48	-30.00	-24.48
	4823.95	V	-46.19	-30.00	-16.19
	4823.97	H	-49.91	-30.00	-19.91
	9647.92	H	-51.14	-30.00	-21.14
	9647.92	V	-50.98	-30.00	-20.98
7	1627.98	V	-62.00	-30.00	-32.00
	1627.99	H	-60.08	-30.00	-30.08
	3255.96	V	-59.25	-30.00	-29.25
	3255.98	H	-62.05	-30.00	-32.05
	4883.96	H	-46.86	-30.00	-16.86
	4884.00	V	-50.31	-30.00	-20.31
	9767.91	H	-51.88	-30.00	-21.88
	9767.93	V	-52.07	-30.00	-22.07
13	1647.98	V	-65.28	-30.00	-35.28
	1647.99	H	-63.40	-30.00	-33.40
	3295.98	H	-61.39	-30.00	-31.39
	3295.98	V	-55.97	-30.00	-25.97
	4943.92	V	-51.08	-30.00	-21.08
	4944.97	H	-48.56	-30.00	-18.56
	9887.91	V	-51.87	-30.00	-21.87
	9887.95	H	-52.39	-30.00	-22.39

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
110.55	H	-72.37	-36.00	-36.37
112.35	H	-72.75	-36.00	-36.75
120.00	V	-66.70	-36.00	-30.70
128.55	V	-66.48	-36.00	-30.48
135.30	V	-67.66	-36.00	-31.66
156.00	H	-72.50	-36.00	-36.50
156.00	V	-66.89	-36.00	-30.89
162.75	V	-64.47	-36.00	-28.47
164.10	H	-66.93	-36.00	-30.93
165.45	H	-66.06	-36.00	-30.06
167.70	V	-63.73	-36.00	-27.73
174.90	V	-67.62	-36.00	-31.62
175.80	H	-66.68	-36.00	-30.68
250.05	H	-64.72	-36.00	-28.72
250.05	V	-64.73	-36.00	-28.73
266.25	H	-70.68	-36.00	-34.68
299.55	H	-71.40	-36.00	-35.40
331.50	V	-65.84	-36.00	-29.84
332.67	H	-61.79	-36.00	-25.79
463.33	H	-67.17	-36.00	-31.17
464.50	H	-66.44	-36.00	-30.44
465.67	V	-67.58	-36.00	-31.58
487.83	V	-67.43	-36.00	-31.43

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
595.17	V	-66.76	-36.00	-30.76
703.67	V	-63.76	-36.00	-27.76
730.50	V	-66.63	-36.00	-30.63
741.00	H	-68.72	-36.00	-32.72
750.33	V	-68.90	-36.00	-32.90
806.33	H	-68.83	-36.00	-32.83
825.00	H	-68.40	-36.00	-32.40
843.67	V	-68.22	-36.00	-32.22
895.00	V	-68.45	-36.00	-32.45
917.17	H	-68.30	-36.00	-32.30
918.33	V	-68.19	-36.00	-32.19
949.83	H	-66.94	-36.00	-30.94
949.83	V	-67.41	-36.00	-31.41
954.50	H	-67.17	-36.00	-31.17
954.50	V	-67.93	-36.00	-31.93
990.67	H	-67.11	-36.00	-31.11
998.83	V	-67.06	-36.00	-31.06

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1, 7 & 13
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.99	V	-63.03	-30.00	-33.03
	1608.01	H	-66.48	-30.00	-36.48
	3215.99	H	-60.47	-30.00	-30.47
	3215.99	V	-59.20	-30.00	-29.20
	4823.97	H	-45.64	-30.00	-15.64
	4823.97	V	-43.73	-30.00	-13.73
	9647.93	H	-47.80	-30.00	-17.80
	9647.93	V	-48.67	-30.00	-18.67
7	1627.97	H	-65.07	-30.00	-35.07
	1627.99	V	-67.21	-30.00	-37.21
	3255.97	H	-57.74	-30.00	-27.74
	3255.98	V	-52.91	-30.00	-22.91
	4883.96	H	-47.70	-30.00	-17.70
	4883.97	V	-45.12	-30.00	-15.12
	9767.94	H	-46.03	-30.00	-16.03
	9767.94	V	-46.98	-30.00	-16.98
13	1647.97	H	-63.64	-30.00	-33.64
	1648.00	V	-59.58	-30.00	-29.58
	3295.96	H	-57.81	-30.00	-27.81
	3295.98	V	-53.85	-30.00	-23.85
	4943.97	H	-48.23	-30.00	-18.23
	4943.97	V	-46.74	-30.00	-16.74
	9887.95	H	-49.69	-30.00	-19.69
	9887.95	V	-48.95	-30.00	-18.95

NOTE: The emission behavior belongs to narrowband spurious emission.

802.11g OFDM MODULATION

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
83.10	V	-71.80	-36.00	-35.80
83.55	H	-69.43	-36.00	-33.43
102.00	V	-71.94	-36.00	-35.94
107.85	V	-67.01	-36.00	-31.01
108.30	H	-70.33	-36.00	-34.33
116.40	H	-68.94	-36.00	-32.94
116.40	V	-66.80	-36.00	-30.80
127.20	V	-69.81	-36.00	-33.81
127.65	H	-70.64	-36.00	-34.64
133.05	H	-70.01	-36.00	-34.01
133.05	V	-67.00	-36.00	-31.00
141.60	H	-70.27	-36.00	-34.27
141.60	V	-70.49	-36.00	-34.49
161.40	H	-71.00	-36.00	-35.00
171.30	H	-69.09	-36.00	-33.09
175.80	H	-68.28	-36.00	-32.28
178.05	V	-71.12	-36.00	-35.12
199.65	H	-68.44	-36.00	-32.44
332.67	H	-68.40	-36.00	-32.40
333.83	V	-68.41	-36.00	-32.41
465.67	H	-65.60	-36.00	-29.60
465.67	V	-66.48	-36.00	-30.48
597.50	V	-69.66	-36.00	-33.66

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
665.17	H	-69.57	-36.00	-33.57
765.50	H	-69.97	-36.00	-33.97
785.33	V	-70.00	-36.00	-34.00
804.00	H	-68.28	-36.00	-32.28
804.00	V	-64.01	-36.00	-28.01
879.83	V	-68.11	-36.00	-32.11
888.00	V	-69.83	-36.00	-33.83
916.00	H	-69.37	-36.00	-33.37
919.50	V	-69.49	-36.00	-33.49
951.00	H	-65.92	-36.00	-29.92
953.33	V	-68.22	-36.00	-32.22
954.50	H	-68.07	-36.00	-32.07
960.33	V	-68.19	-36.00	-32.19
987.17	H	-67.98	-36.00	-31.98
1000.00	V	-67.34	-36.00	-31.34

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1, 7 & 13
DUTY CYCLE OF EUT	100%	**TEST MODE**	**A**
TESTED BY	Kyan Tsai		

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.98	H	-59.33	-30.00	-29.33
	1608.00	V	-57.54	-30.00	-27.54
	3215.97	H	-61.76	-30.00	-31.76
	3215.99	V	-60.94	-30.00	-30.94
	4823.10	V	-61.53	-30.00	-31.53
	4823.97	H	-63.27	-30.00	-33.27
	9647.93	H	-57.94	-30.00	-27.94
	9647.97	V	-56.12	-30.00	-26.12
7	1627.91	H	-70.31	-30.00	-40.31
	1627.98	V	-55.15	-30.00	-25.15
	3255.97	V	-62.65	-30.00	-32.65
	3256.21	H	-66.80	-30.00	-36.80
	4884.83	H	-66.40	-30.00	-36.40
	4885.50	V	-62.35	-30.00	-32.35
	9767.93	V	-57.07	-30.00	-27.07
	9773.07	H	-60.38	-30.00	-30.38
13	1647.98	V	-54.46	-30.00	-24.46
	1648.09	H	-69.79	-30.00	-39.79
	3295.95	V	-62.88	-30.00	-32.88
	3295.96	H	-61.64	-30.00	-31.64
	4943.98	V	-62.66	-30.00	-32.66
	4945.18	H	-61.50	-30.00	-31.50
	9887.92	H	-56.70	-30.00	-26.70
	9887.92	V	-58.48	-30.00	-28.48

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
70.95	V	-71.60	-36.00	-35.60
110.10	V	-68.50	-36.00	-32.50
119.55	V	-69.11	-36.00	-33.11
123.60	H	-71.66	-36.00	-35.66
129.00	V	-68.71	-36.00	-32.71
138.00	V	-67.96	-36.00	-31.96
143.85	V	-70.30	-36.00	-34.30
153.30	H	-72.46	-36.00	-36.46
156.00	V	-67.84	-36.00	-31.84
163.65	V	-63.81	-36.00	-27.81
165.00	H	-68.67	-36.00	-32.67
167.25	H	-66.28	-36.00	-30.28
167.25	V	-63.61	-36.00	-27.61
174.45	H	-67.63	-36.00	-31.63
176.25	V	-67.86	-36.00	-31.86
250.05	H	-64.20	-36.00	-28.20
250.05	V	-64.17	-36.00	-28.17
331.50	V	-65.17	-36.00	-29.17
332.67	H	-61.65	-36.00	-25.65
433.00	V	-65.94	-36.00	-29.94
463.33	H	-67.63	-36.00	-31.63
463.33	V	-67.78	-36.00	-31.78
464.50	H	-65.87	-36.00	-29.87

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
464.50	V	-67.91	-36.00	-31.91
730.50	V	-67.23	-36.00	-31.23
797.00	H	-67.95	-36.00	-31.95
925.33	H	-67.61	-36.00	-31.61
947.50	H	-66.56	-36.00	-30.56
953.33	V	-66.19	-36.00	-30.19
962.67	V	-67.60	-36.00	-31.60
975.50	H	-67.52	-36.00	-31.52
987.17	H	-67.46	-36.00	-31.46
996.50	V	-67.21	-36.00	-31.21

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	OFDM
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	6Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1, 7 & 13
DUTY CYCLE OF EUT	100%	**TEST MODE**	**B**
TESTED BY	James Fan		

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.98	H	-64.28	-30.00	-34.28
	1607.99	V	-62.23	-30.00	-32.23
	3215.98	H	-62.56	-30.00	-32.56
	3215.99	V	-59.33	-30.00	-29.33
	4822.09	V	-58.57	-30.00	-28.57
	4826.84	H	-61.77	-30.00	-31.77
	9647.92	H	-56.44	-30.00	-26.44
	9647.92	V	-56.00	-30.00	-26.00
7	1627.99	H	-63.94	-30.00	-33.94
	1627.99	V	-62.66	-30.00	-32.66
	3255.97	V	-61.14	-30.00	-31.14
	3255.98	H	-62.22	-30.00	-32.22
	4882.99	H	-63.22	-30.00	-33.22
	4885.24	V	-61.17	-30.00	-31.17
	9767.96	H	-56.02	-30.00	-26.02
	9767.96	V	-57.54	-30.00	-27.54
13	1647.99	V	-60.90	-30.00	-30.90
	1648.00	H	-62.29	-30.00	-32.29
	3295.97	V	-60.41	-30.00	-30.41
	3295.99	H	-60.55	-30.00	-30.55
	4943.58	V	-62.71	-30.00	-32.71
	4945.74	H	-63.68	-30.00	-33.68
	9887.98	H	-56.98	-30.00	-26.98
	9887.98	V	-58.59	-30.00	-28.59

NOTE: The emission behavior belongs to narrowband spurious emission.

RECEIVER PARAMETERS

4.5 RECEIVER SPURIOUS RADIATION (RADIATED)

4.5.1 LIMITS OF RECEIVER SPURIOUS RADIATION

Narrowband spurious emission limits for receivers

Frequency Range	Limit
30MHz ~ 1GHz	-57dBm
Above 1GHz ~ 12.75GHz	-47dBm

4.5.2 TEST PROCEDURE

Reference to chapter 5.7 of ETSI EN 300 328 V1.6.1 (2004-11).

4.5.3 DEVIATION FROM TEST STANDARD

No deviation

4.5.4 TEST SETUP

1. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration).
2. The test setup has been constructed as the normal use condition. Plugged EUT into notebook system and placed on the turn-table. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

4.5.5 TEST RESULTS

802.11b DSSS MODULATION

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH	**OPERATING CHANNEL**	1
TEST MODE	**A**	**TESTED BY**	Kyan Tsai

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
66.90	H	-68.67	-57.00	-11.67
109.20	H	-74.89	-57.00	-17.89
110.10	V	-73.07	-57.00	-16.07
111.90	H	-74.24	-57.00	-17.24
116.85	V	-68.17	-57.00	-11.17
120.45	V	-71.44	-57.00	-14.44
130.80	V	-74.66	-57.00	-17.66
154.65	H	-73.44	-57.00	-16.44
160.95	H	-71.06	-57.00	-14.06
166.35	V	-71.57	-57.00	-14.57
168.60	H	-69.15	-57.00	-12.15
176.25	V	-72.67	-57.00	-15.67
177.60	H	-71.37	-57.00	-14.37
183.45	H	-73.69	-57.00	-16.69
199.65	H	-72.28	-57.00	-15.28
332.67	V	-69.14	-57.00	-12.14
465.67	H	-65.07	-57.00	-8.07
465.67	V	-65.43	-57.00	-8.43
739.83	V	-68.30	-57.00	-11.30
752.67	H	-69.01	-57.00	-12.01
763.17	V	-69.84	-57.00	-12.84
776.00	V	-68.37	-57.00	-11.37
779.50	H	-68.71	-57.00	-11.71

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 70%RH	**OPERATING CHANNEL**	1
TEST MODE	**A**	**TESTED BY**	Kyan Tsai

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
800.50	V	-69.47	-57.00	-12.47
813.33	H	-69.35	-57.00	-12.35
846.00	H	-69.67	-57.00	-12.67
853.00	V	-69.39	-57.00	-12.39
861.17	V	-69.78	-57.00	-12.78
871.67	H	-69.07	-57.00	-12.07
896.17	V	-69.07	-57.00	-12.07
911.33	H	-68.83	-57.00	-11.83
914.83	V	-69.22	-57.00	-12.22
991.83	H	-67.50	-57.00	-10.50
998.83	V	-67.41	-57.00	-10.41

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	25deg.C, 70%RH	**OPERATING CHANNEL**	1, 7 & 13
TEST MODE	**A**	**TESTED BY**	Kyan Tsai

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.99	H	-65.39	-47.00	-18.39
	1608.00	V	-66.18	-47.00	-19.18
	3215.97	H	-61.59	-47.00	-14.59
	3215.97	V	-63.18	-47.00	-16.18
7	1627.97	H	-65.05	-47.00	-18.05
	1627.98	V	-65.45	-47.00	-18.45
	3255.97	H	-59.46	-47.00	-12.46
	3255.98	V	-63.97	-47.00	-16.97
13	1647.98	H	-63.91	-47.00	-16.91
	1647.98	V	-64.63	-47.00	-17.63
	3295.96	H	-59.37	-47.00	-12.37
	3295.96	V	-64.61	-47.00	-17.61

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
TEST MODE	**B**	**TESTED BY**	James Fan

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
111.00	V	-68.60	-57.00	-11.60
115.50	V	-67.96	-57.00	-10.96
129.00	V	-67.90	-57.00	-10.90
129.45	V	-67.47	-57.00	-10.47
151.05	V	-67.82	-57.00	-10.82
163.20	V	-63.13	-57.00	-6.13
165.45	V	-63.11	-57.00	-6.11
174.45	V	-67.72	-57.00	-10.72
175.80	H	-66.38	-57.00	-9.38
232.05	H	-64.38	-57.00	-7.38
241.05	H	-66.09	-57.00	-9.09
250.05	H	-63.10	-57.00	-6.10
250.05	V	-63.51	-57.00	-6.51
255.45	H	-65.50	-57.00	-8.50
265.80	H	-65.17	-57.00	-8.17
331.50	H	-61.19	-57.00	-4.19
331.50	V	-60.03	-57.00	-3.03
463.33	H	-66.56	-57.00	-9.56
463.33	V	-66.29	-57.00	-9.29
464.50	H	-65.98	-57.00	-8.98
464.50	V	-65.04	-57.00	-8.04
730.50	V	-62.80	-57.00	-5.80
918.33	H	-65.95	-57.00	-8.95
928.83	V	-65.54	-57.00	-8.54

NOTE: The emission behavior belongs to narrowband spurious emission.

OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	30MHz ~ 1GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1
TEST MODE	**B**	**TESTED BY**	James Fan

SPURIOUS EMISSION LEVEL				
Frequency (MHz)	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
946.33	V	-64.05	-57.00	-7.05
952.17	H	-65.33	-57.00	-8.33
1000.00	H	-66.28	-57.00	-9.28
1000.00	V	-66.36	-57.00	-9.36

NOTE: The emission behavior belongs to narrowband spurious emission.

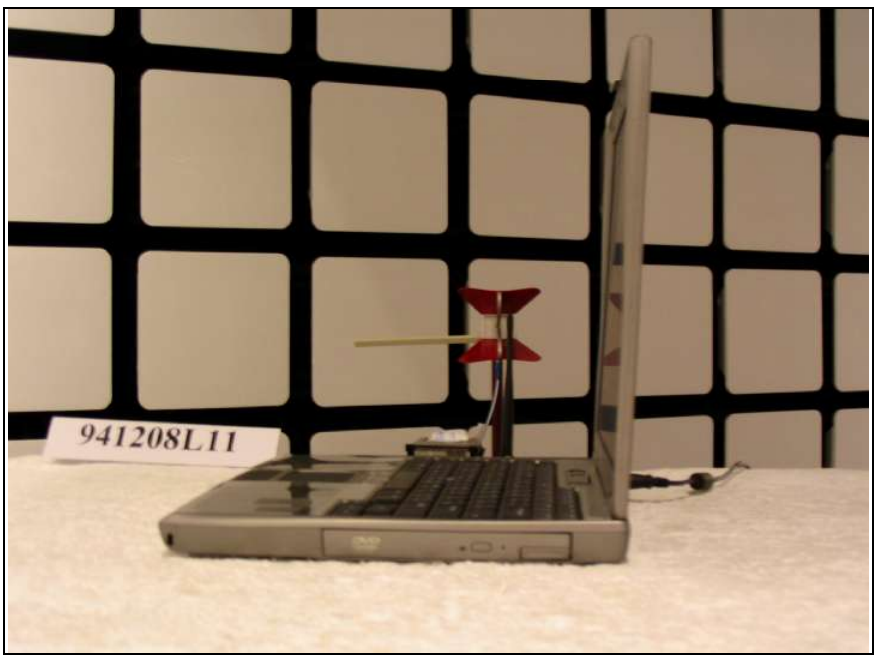
OPERATING FREQUENCY RANGE	2400 ~ 2483.5MHz (for all EU countries)	**MODULATION TECHNOLOGY**	DSSS
SPURIOUS EMISSION FREQUENCY RANGE	1GHz~12.75GHz	**TRANSFER BIT RATE**	1Mbps
ENVIRONMENTAL CONDITIONS	20deg.C, 60%RH	**OPERATING CHANNEL**	1, 7 & 13
TEST MODE	**B**	**TESTED BY**	James Fan

SPURIOUS EMISSION LEVEL					
Channel	**Frequency (MHz)**	**Antenna Polarization**	**Level (dBm)**	**Limit (dBm)**	**Margin**
1	1607.99	H	-64.46	-47.00	-17.46
	1608.00	V	-65.59	-47.00	-18.59
	3215.96	H	-60.33	-47.00	-13.33
	3215.98	V	-56.51	-47.00	-9.51
7	1627.99	H	-65.10	-47.00	-18.10
	1627.99	V	-65.03	-47.00	-18.03
	3255.98	H	-57.25	-47.00	-10.25
	3256.01	V	-54.65	-47.00	-7.65
13	1647.99	V	-63.30	-47.00	-16.30
	1648.01	H	-62.67	-47.00	-15.67
	3295.99	H	-57.64	-47.00	-10.64
	3295.99	V	-55.53	-47.00	-8.53

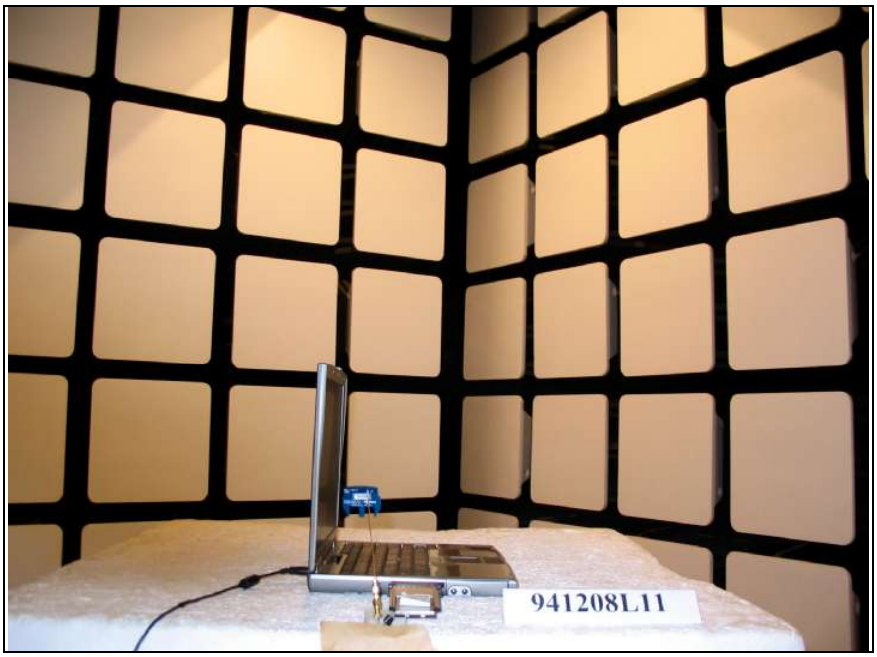
NOTE: The emission behavior belongs to narrowband spurious emission.

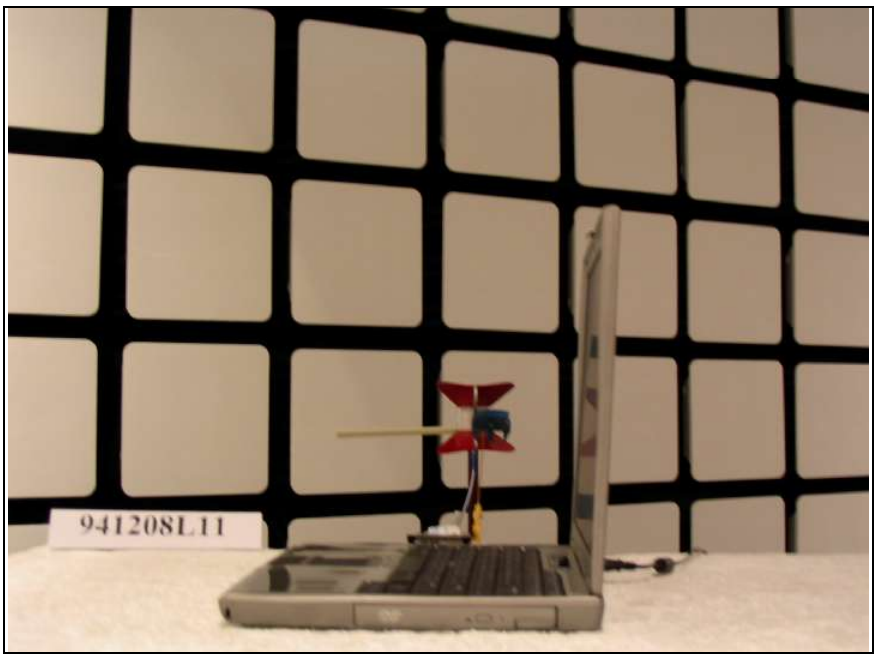
5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Tx and Rx Spurious Emission _ Test Mode A



Tx and Rx Spurious Emission _ Test Mode B





6 INFORMATION ON THE TESTING LABORATORIES

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

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26052943

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Tel: 886-3-5935343
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Fax: 886-3-3270892

Web Site: www.adt.com.tw

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