



# FCC TEST REPORT

## (PART 15, SUBPART C, 15.247)

**REPORT NO.:** RF940825L08A  
**MODEL NO.:** MC7094  
**RECEIVED:** Aug. 24, 2005  
**TESTED:** Sep. 22 ~ Oct. 17, 2005  
**ISSUED:** Oct. 19, 2005

**APPLICANT:** Symbol Technologies, Inc.

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**ISSUED BY:** Advance Data Technology Corporation

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No. 2177-01



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## 1. CERTIFICATION

**PRODUCT:** EDA (Enterprise Digital Assistant)  
**MODEL:** MC7094  
**BRAND:** Symbol  
**APPLICANT:** Symbol Technologies, Inc.  
**TEST SAMPLE:** PROTOTYPE  
**TESTED:** Sep. 22 ~ Oct. 17, 2005  
**STANDARDS:** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2003

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** : Rennie Wang , **DATE:** Oct. 19, 2005  
Rennie Wang

**TECHNICAL**  
**ACCEPTANCE** : Gary Chang , **DATE:** Oct. 19, 2005  
Responsible for RF Gary Chang

**APPROVED BY** : Cody Chang , **DATE:** Oct. 19, 2005  
Cody Chang / Deputy Manager



## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

<b>APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.247)</b>			
<b>Standard Section</b>	<b>Test Type and Limit</b>	<b>Result</b>	<b>Remark</b>
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -11.82dB at 0.201MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -3.50dB at 2390.00MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.





## 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	EDA (Enterprise Digital Assistant)
<b>MODEL NO.</b>	MC7094
<b>POWER SUPPLY</b>	3.7Vdc from rechargeable lithium battery 5.4Vdc from power adapter for charger 12.0Vdc from power adapter for cradle
<b>MODULATION TYPE</b>	Wireless LAN: CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM Bluetooth: GFSK for FHSS
<b>MODULATION TECHNOLOGY</b>	DSSS, OFDM, FHSS
<b>TRANSFER RATE</b>	Wireless LAN: 802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11a: 54/48/36/24/18/12/9/6Mbps Bluetooth: 723Kbps
<b>FREQUENCY RANGE</b>	Wireless LAN: 802.11b & 802.11g: 2.412 ~ 2.462GHz 802.11a: 5.745 ~ 5.825GHz Bluetooth: 2.402 ~ 2.480GHz
<b>NUMBER OF CHANNEL</b>	Wireless LAN: 802.11b & 802.11g: 11 802.11a: 5 Bluetooth: 79
<b>CHANNEL SPACING</b>	Wireless LAN: 802.11b & 802.11g: 5MHz 802.11a: 20MHz Bluetooth: 1MHz
<b>OUTPUT POWER</b>	Wireless LAN: 40.087mW for 802.11b 44.978mW for 802.11g 40.458mW for 5.745 ~ 5.825GHz Bluetooth: 1.072mW
<b>ANTENNA TYPE</b>	Wireless LAN: PIFA antenna with 2.0dBi gain (for 2.4GHz) PIFA antenna with 2.5dBi gain (for 5.0GHz) Bluetooth: Chip antenna with 2.0dBi gain
<b>DATA CABLE</b>	0.92m non-shielded cable for earphone
<b>I/O PORTS</b>	Refer to user's manual
<b>ASSOCIATED DEVICES</b>	Earphone, cradle

**NOTE:**

1. The EUT is an EDA (Enterprise Digital Assistant) with wireless LAN, bluetooth and mobile phone functions. This report is only covered the functions of wireless LAN and bluetooth. The mobile phone function is covered in another two test reports, which standards used are FCC Part 24 and FCC Part 22.
2. The wireless LAN included two dual band antennas. After pre-testing both primary and auxiliary antennas, the former as the worst case, was chosen for final test.
3. The EDA supports two battery options, Heavy (high capacity) and Main (normal). Both options were assessed and the heavy battery was found to be worst case and was selected for the final test configuration.

<b>HEAVY BATTERY:</b>	
<b>BRAND:</b>	Symbol
<b>MODEL:</b>	82-71364-01
<b>RATING:</b>	3.7Vdc, 3800 mAh

<b>MAIN BATTERY:</b>	
<b>BRAND:</b>	Symbol
<b>MODEL:</b>	82-71363-01
<b>RATING:</b>	3.7Vdc, 1900 mAh

4. The cradle was operated with following power adapter:

<b>BRAND:</b>	HIPRO
<b>MODEL:</b>	HP-O2040D43
<b>INPUT:</b>	100-240Vac, 50-60Hz, 1.5A
<b>OUTPUT:</b>	12Vdc, 3.33A
<b>POWER LINE:</b>	AC 1.8m non-shielded cable without core DC 1.8m non-shielded cable with one core

5. The EUT was operated with following charging cradle:

<b>BRAND:</b>	Delta
<b>MODEL:</b>	ADP-16GB A
<b>INPUT:</b>	100-240Vac, 50-60Hz, 0.4A
<b>OUTPUT:</b>	5.4Vdc, 3A
<b>POWER LINE:</b>	AC 0.7m non-shielded cable without core DC 1.87m non-shielded cable with one core

6. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.
7. 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

Since the EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane. Therefore only the test data of this X-plane was used for radiated test.

Operated in 2400 ~ 2483.5MHz band:

11 channels are provided to the EUT for wireless LAN function:

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

79 channels are provided to this EUT for bluetooth function:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2431	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		



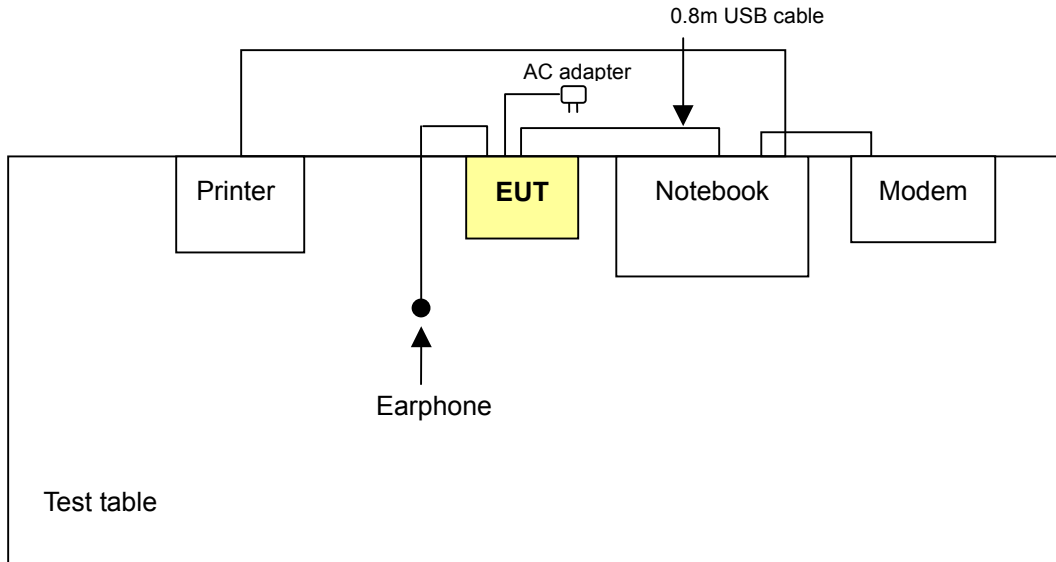
Operated in 5745 ~ 5825MHz band:

5 channels are provided to this EUT for wireless LAN function:

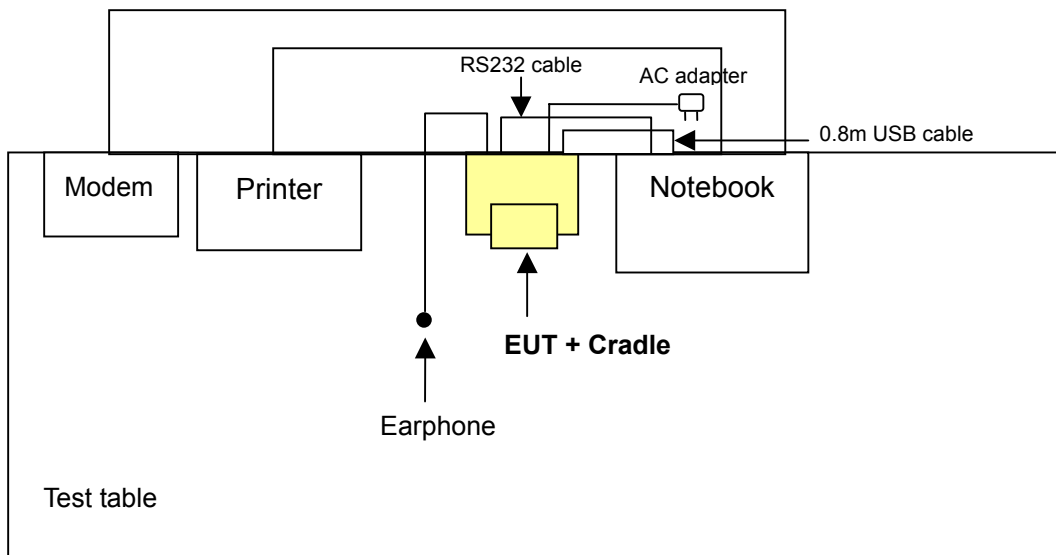
CHANNEL	FREQUENCY
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz
5	5825 MHz

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

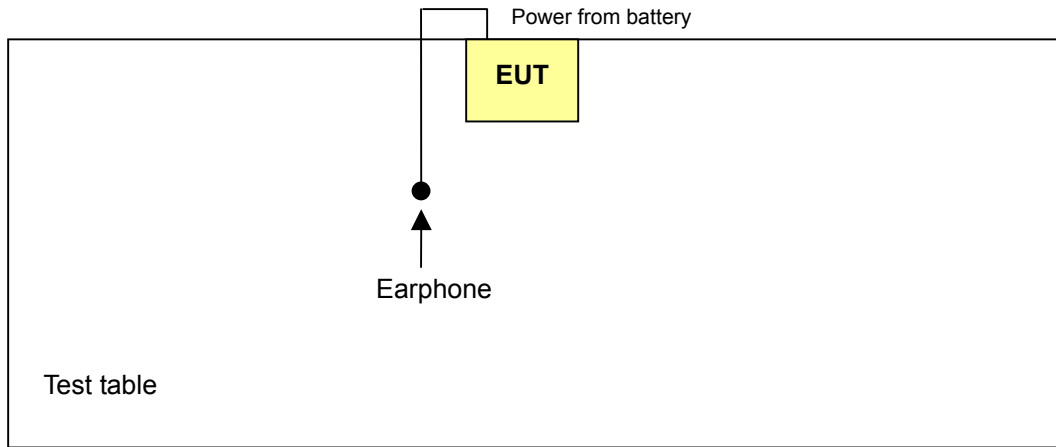
#### Mode 1



#### Mode 2



Mode 3








**Radiated Emission Test (Below 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, antenna ports (if EUT with antenna diversity architecture), and X, Y and Z Axis.
- 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)	AXIS
A	802.11b	1 to 11	11	DSSS	CCK	11	X
A	802.11g	1 to 11	11	OFDM	BPSK	6	X
A	802.11a	1 to 5	5	OFDM	BPSK	6	X
B	802.11b	1 to 11	11	DSSS	CCK	11	-
B	802.11g	1 to 11	11	OFDM	BPSK	6	-
B	802.11a	1 to 5	5	OFDM	BPSK	6	-
C	802.11b	1 to 11	11	DSSS	CCK	11	X
C	802.11g	1 to 11	11	OFDM	BPSK	6	X
C	802.11a	1 to 5	5	OFDM	BPSK	6	X

**Radiated Emission 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), and X, Y and Z Axis.
- 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)	AXIS
A	802.11b	1 to 11	1, 6, 11	DSSS	CCK	11	X
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	X
A	802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6	X



**Bandedge Measurement:**

- 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 11	DSSS	CCK	11
802.11g	1 to 11	1, 11	OFDM	BPSK	6
802.11a	1 to 5	1, 5	OFDM	BPSK	6

**Antenna Port Conducted Measurement:**

- 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6



### FOR BLUETOOTH FUNCTION:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	√	√	The EUT with heavy battery connected with the earphone, and was powered by the adapter mode: ADP-16GB A
B	√	√	-	-	The EUT with heavy battery connected with the earphone and cradle, and was powered by the adapter model: HP-O2040D43
C	-	√	-	-	The EUT with heavy battery connected with the earphone

Where PLC: Power Line Conducted Emission  
RE≥1G: Radiated Emission above 1GHz

RE<1G RE: Radiated Emission below 1GHz  
APCM: Antenna Port Conducted Measurement

**NOTE:** “-“ means no effect.

### Power Line Conducted Emission 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), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5
B	0 to 78	0, 39, 78	FHSS	GFSK	DH5

### Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, antenna ports (if EUT with antenna diversity architecture), X, Y, Z Axis, and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE	AXIS
A	0 to 78	78	FHSS	GFSK	DH5	X
B	0 to 78	78	FHSS	GFSK	DH5	-
C	0 to 78	78	FHSS	GFSK	DH5	X


**Radiated Emission 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), X, Y, Z Axis, and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE	AXIS
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5	X

**Bandedge Measurement:**

- 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 78	FHSS	GFSK	DH5

**Antenna Port Conducted Measurement:**

- 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH5



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### FCC Part 15, Subpart C. (15.247)

#### ANSI C63.4-2003

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

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

### 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	16484462992	E2K24CLNS
2	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY054147	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8 m shielded cable without core
3	1.2 m shielded cable without core

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



## 4. TEST TYPES AND RESULTS (FOR 802.11b & g 2412~2462MHz BAND)

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 06, 2005
RF signal cable Woken	5D-FB	Cable-HyC02-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 20, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 20, 2006
Software ADT	ADT_Cond_V3	NA	NA

- 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 Shielded Room 3.
  3. The VCCI Site Registration No. is C-2047.



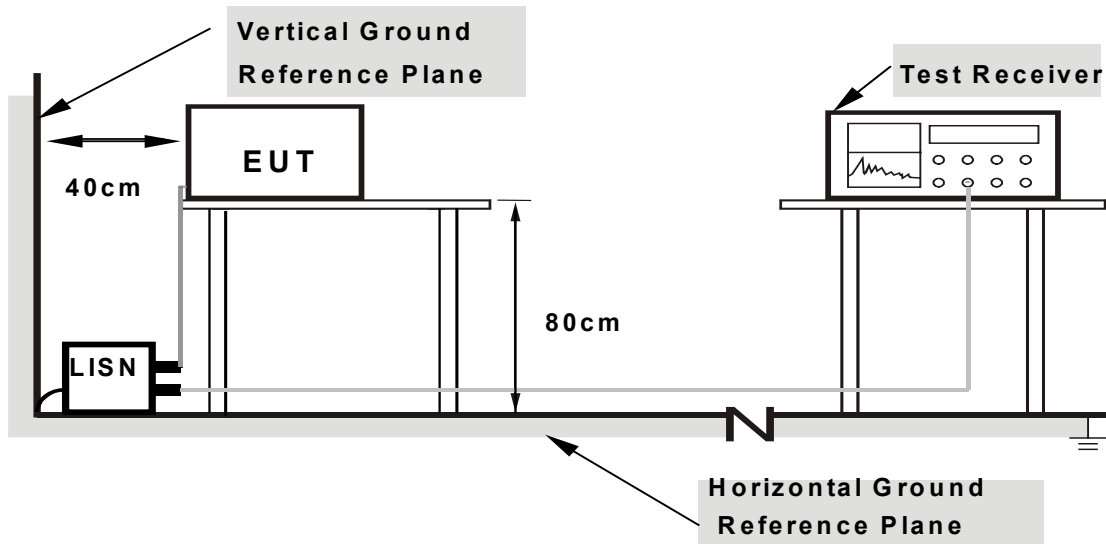
#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
  2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to notebook system placed on a testing table.
- b. The EUT ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The notebook system sent "H" messages to its screen.
- d. The notebook system sent "H" messages to modem.
- e. The notebook system sent "H" messages to printer, and the printer printed them on paper.
- f. Steps c ~ e were repeated.





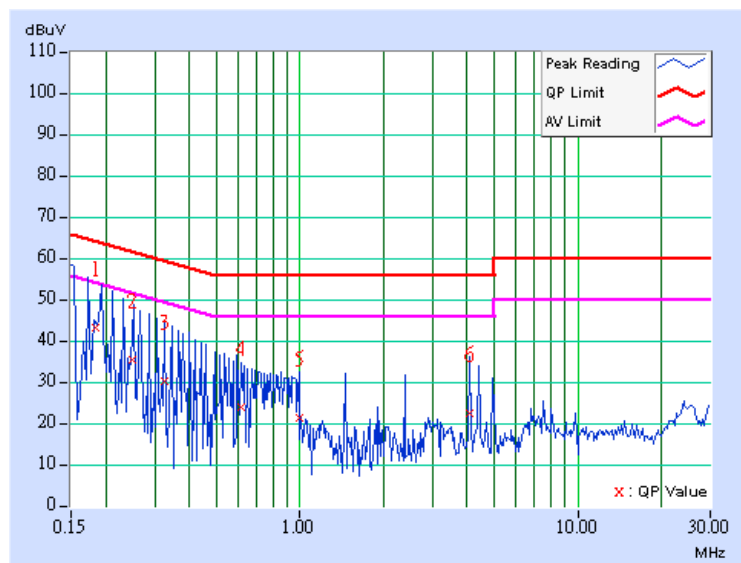
### 4.1.7 TEST RESULTS

#### Conducted Worst-Case Data\_with charging cable

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 1	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.11	43.21	-	43.32	-	64.27	54.27	-20.95	-
2	0.249	0.11	35.44	-	35.55	-	61.80	51.80	-26.25	-
3	0.326	0.12	30.15	-	30.27	-	59.56	49.56	-29.30	-
4	0.614	0.16	23.67	-	23.83	-	56.00	46.00	-32.17	-
5	0.994	0.23	21.06	-	21.29	-	56.00	46.00	-34.71	-
6	4.090	0.29	22.13	-	22.42	-	56.00	46.00	-33.58	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

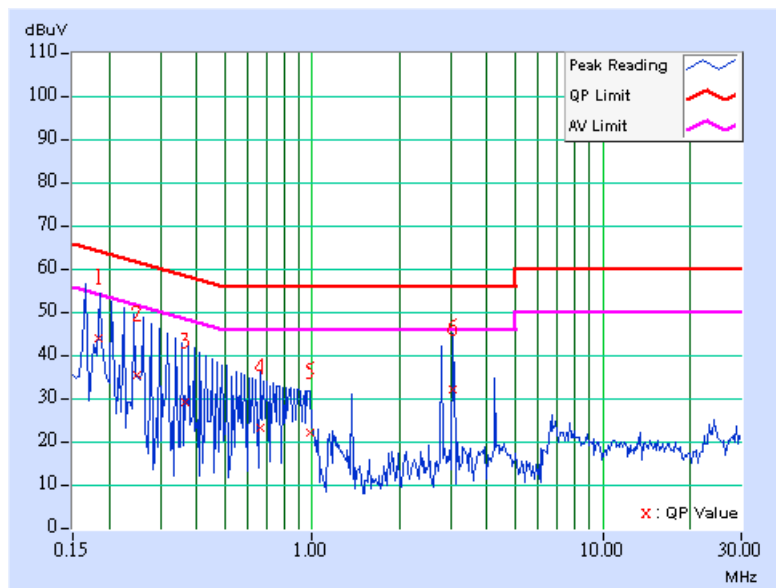




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 1	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.184	0.11	43.91	-	44.02	-	64.30
2	0.248	0.11	35.36	-	35.47	-	61.81	51.81	-26.34	-
3	0.366	0.12	28.95	-	29.07	-	58.58	48.58	-29.51	-
4	0.667	0.17	23.10	-	23.27	-	56.00	46.00	-32.73	-
5	0.982	0.23	21.80	-	22.03	-	56.00	46.00	-33.97	-
6	3.059	0.27	31.86	-	32.13	-	56.00	46.00	-23.87	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

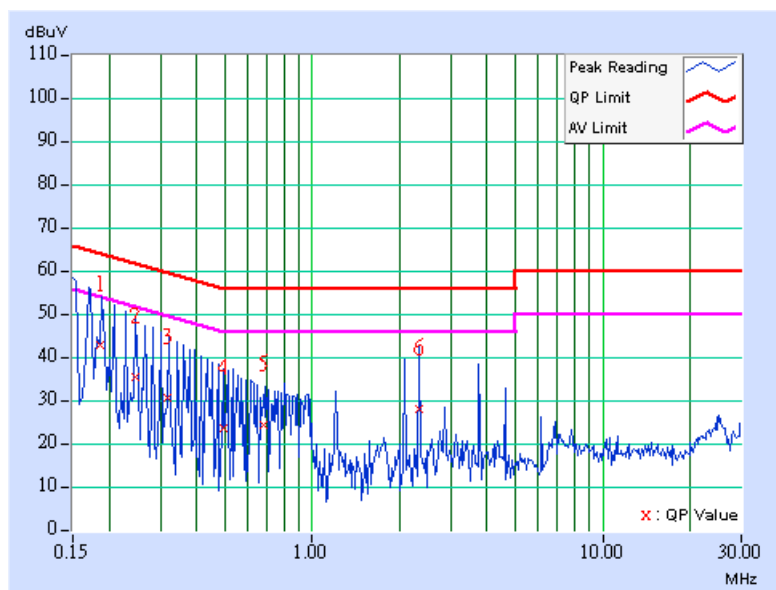




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 6	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.185	0.11	42.87	-	42.98	-	64.25
2	0.246	0.11	35.18	-	35.29	-	61.88	51.88	-26.59	-
3	0.319	0.12	30.38	-	30.50	-	59.72	49.72	-29.23	-
4	0.493	0.14	23.47	-	23.61	-	56.11	46.11	-32.51	-
5	0.684	0.17	24.16	-	24.33	-	56.00	46.00	-31.67	-
6	2.337	0.26	28.06	-	28.32	-	56.00	46.00	-27.68	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

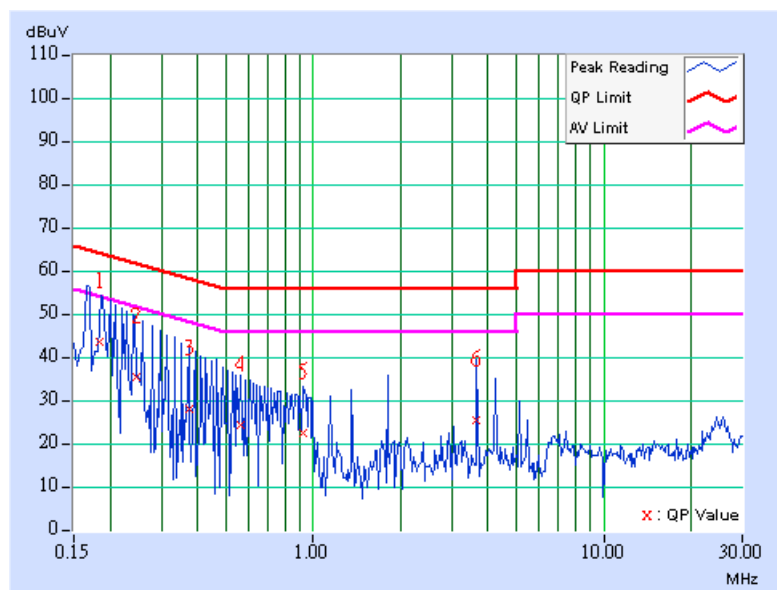




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 6	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.184	0.11	43.29	-	43.40	-	64.32
2	0.246	0.11	35.20	-	35.31	-	61.88	51.88	-26.57	-
3	0.374	0.12	27.70	-	27.82	-	58.41	48.41	-30.59	-
4	0.566	0.15	24.22	-	24.37	-	56.00	46.00	-31.63	-
5	0.923	0.22	22.46	-	22.68	-	56.00	46.00	-33.32	-
6	3.662	0.28	25.15	-	25.43	-	56.00	46.00	-30.57	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

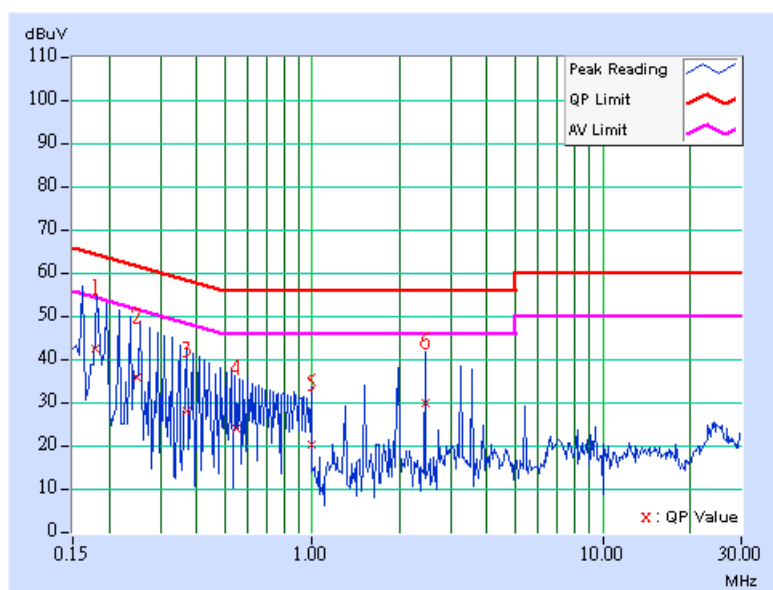




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 11	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.180	0.11	42.23	-	42.34	-	64.48
2	0.249	0.11	35.60	-	35.71	-	61.80	51.80	-26.08	-
3	0.370	0.12	27.84	-	27.96	-	58.51	48.51	-30.55	-
4	0.549	0.15	23.82	-	23.97	-	56.00	46.00	-32.03	-
5	0.996	0.23	20.06	-	20.29	-	56.00	46.00	-35.71	-
6	2.455	0.26	29.75	-	30.01	-	56.00	46.00	-25.99	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

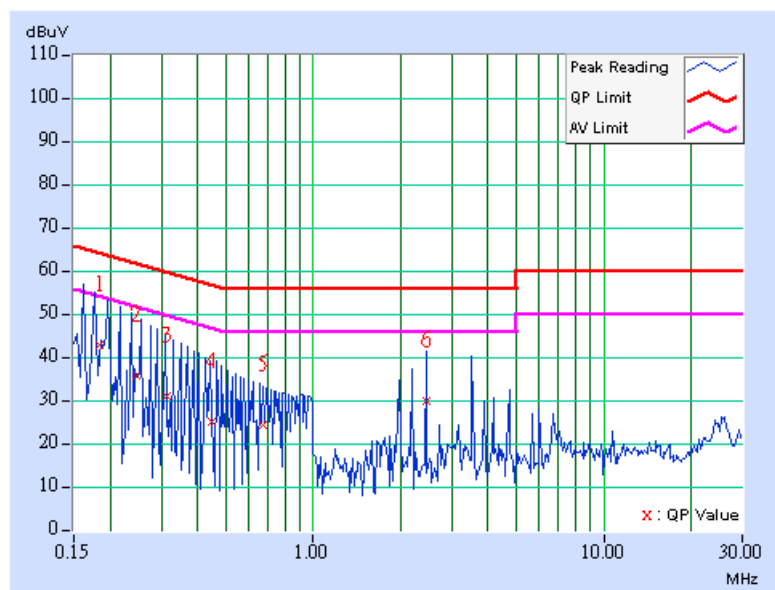




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 11	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.185	0.11	42.79	-	42.90	-	64.27
2	0.246	0.11	35.54	-	35.65	-	61.90	51.90	-26.25	-
3	0.312	0.12	30.82	-	30.94	-	59.92	49.92	-28.98	-
4	0.450	0.13	25.04	-	25.17	-	56.88	46.88	-31.71	-
5	0.669	0.17	24.04	-	24.21	-	56.00	46.00	-31.79	-
6	2.449	0.26	29.71	-	29.97	-	56.00	46.00	-26.03	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



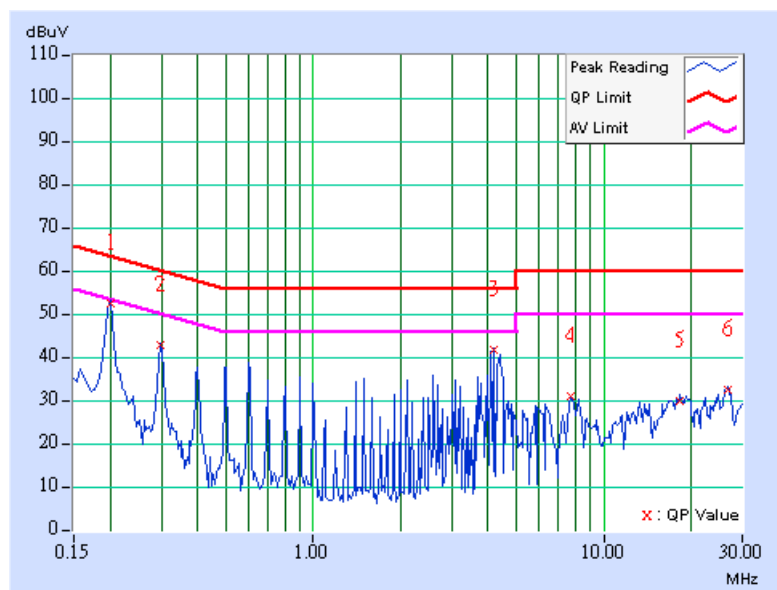


**Conducted Worst-Case Data\_with cradle**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 1	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	51.13	-	51.24	-	63.58
2	0.298	0.11	41.34	-	41.45	-	60.29	50.29	-18.84	-
3	4.199	0.39	40.25	-	40.64	-	56.00	46.00	-15.36	-
4	7.695	0.48	29.59	-	30.07	-	60.00	50.00	-29.93	-
5	18.383	0.87	28.41	-	29.28	-	60.00	50.00	-30.72	-
6	26.875	1.58	31.03	-	32.61	-	60.00	50.00	-27.39	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

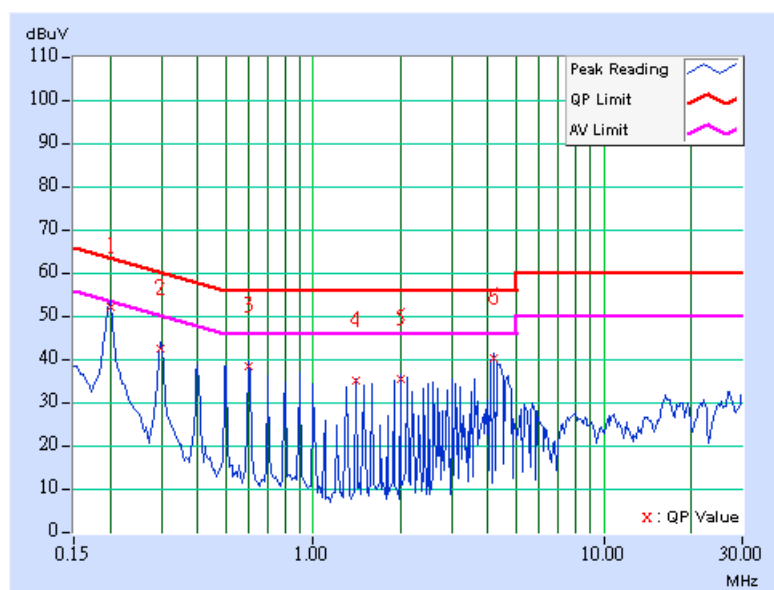




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 1	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	51.65	-	51.76	-	63.58
2	0.298	0.11	42.13	-	42.24	-	60.29	50.29	-18.05	-
3	0.599	0.15	37.98	-	38.13	-	56.00	46.00	-17.87	-
4	1.398	0.25	34.86	-	35.11	-	56.00	46.00	-20.89	-
5	2.000	0.26	35.27	-	35.53	-	56.00	46.00	-20.47	-
6	4.195	0.39	40.15	-	40.54	-	56.00	46.00	-15.46	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



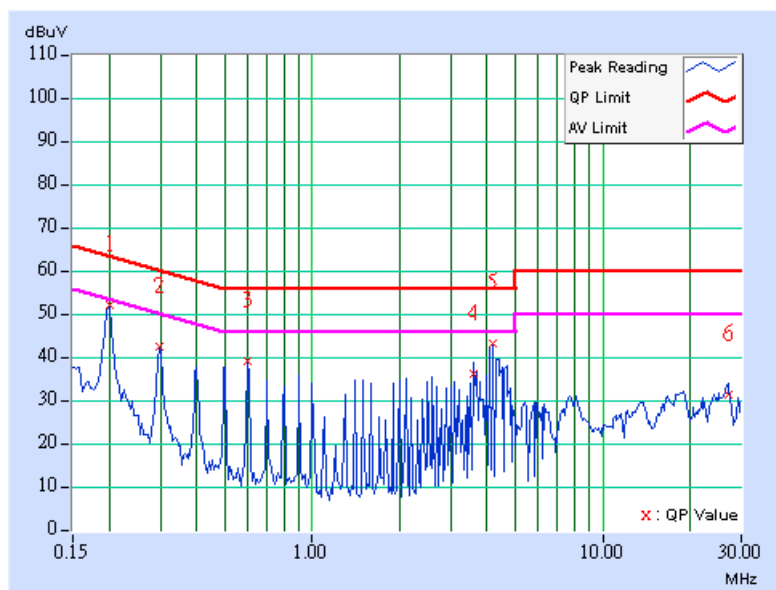




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 6	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	50.51	-	50.62	-	63.58
2	0.298	0.11	40.84	-	40.95	-	60.29	50.29	-19.34	-
3	0.599	0.15	37.84	-	37.99	-	56.00	46.00	-18.01	-
4	3.594	0.36	34.66	-	35.02	-	56.00	46.00	-20.98	-
5	4.195	0.39	41.82	-	42.21	-	56.00	46.00	-13.79	-
6	26.973	1.59	29.86	-	31.45	-	60.00	50.00	-28.55	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

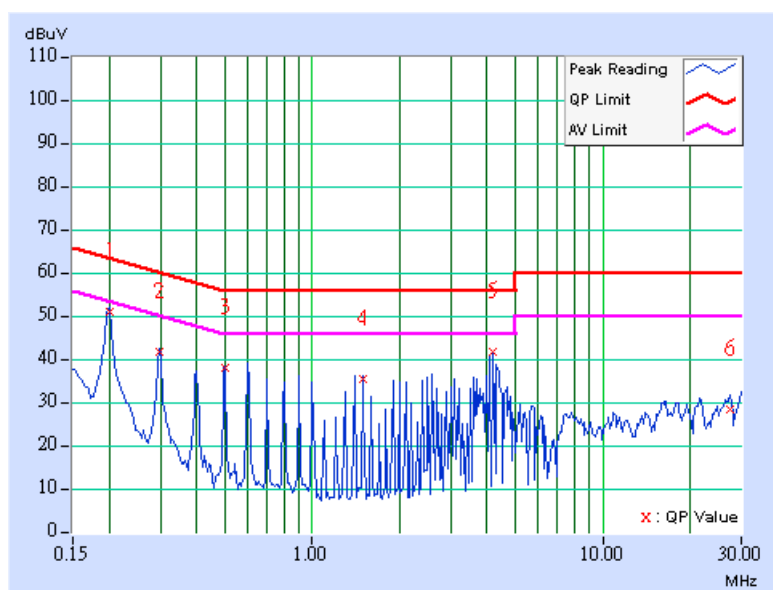




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 6	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	49.99	-	50.10	-	63.58
2	0.298	0.11	40.80	-	40.91	-	60.29	50.29	-19.38	-
3	0.502	0.13	36.97	-	37.10	-	56.00	46.00	-18.90	-
4	1.500	0.25	34.45	-	34.70	-	56.00	46.00	-21.30	-
5	4.195	0.39	40.69	-	41.08	-	56.00	46.00	-14.92	-
6	27.371	1.04	27.43	-	28.47	-	60.00	50.00	-31.53	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

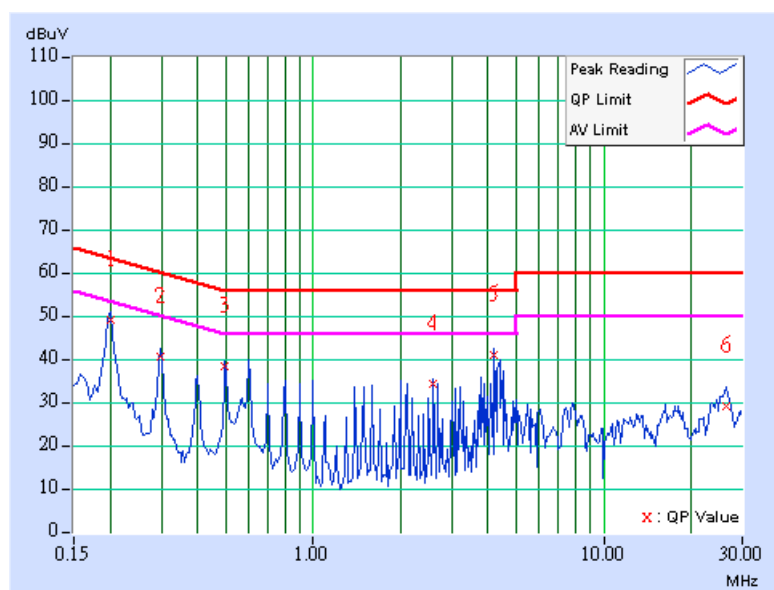




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 11	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	47.54	-	47.65	-	63.58
2	0.298	0.11	39.14	-	39.25	-	60.29	50.29	-21.04	-
3	0.498	0.13	36.87	-	37.00	-	56.04	46.04	-19.04	-
4	2.594	0.30	32.94	-	33.24	-	56.00	46.00	-22.76	-
5	4.191	0.39	39.53	-	39.92	-	56.00	46.00	-16.08	-
6	26.547	1.54	27.86	-	29.40	-	60.00	50.00	-30.60	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

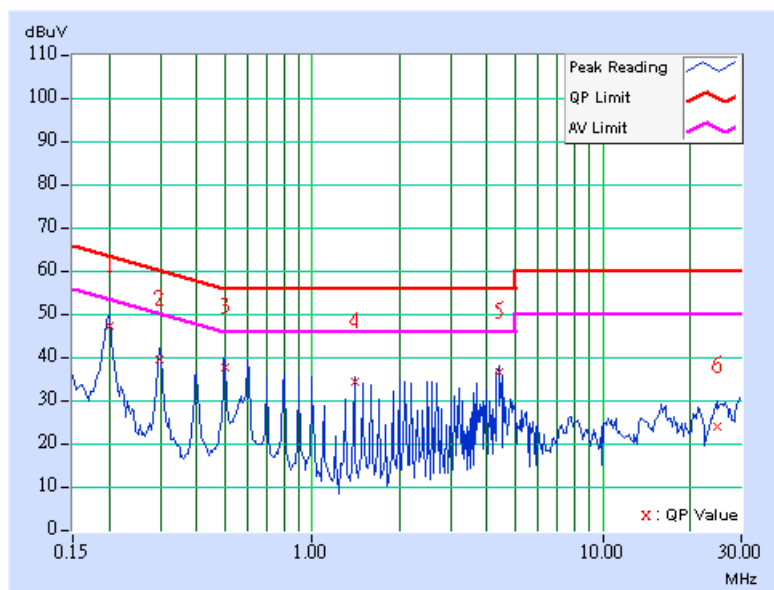




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 11	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	46.64	-	46.75	-	63.58
2	0.298	0.11	38.88	-	38.99	-	60.29	50.29	-21.30	-
3	0.502	0.13	36.84	-	36.97	-	56.00	46.00	-19.03	-
4	1.398	0.25	33.78	-	34.03	-	56.00	46.00	-21.97	-
5	4.391	0.39	35.91	-	36.30	-	56.00	46.00	-19.70	-
6	24.660	0.84	23.06	-	23.90	-	60.00	50.00	-36.10	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 16, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2006
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Feb. 17, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Feb. 17, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA
26GHz ~ 40GHz Amplifier	AMF-6F-2600400	923362	Mar. 13, 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 Chamber 1.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Site Registration No. is IC4924-2.



#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

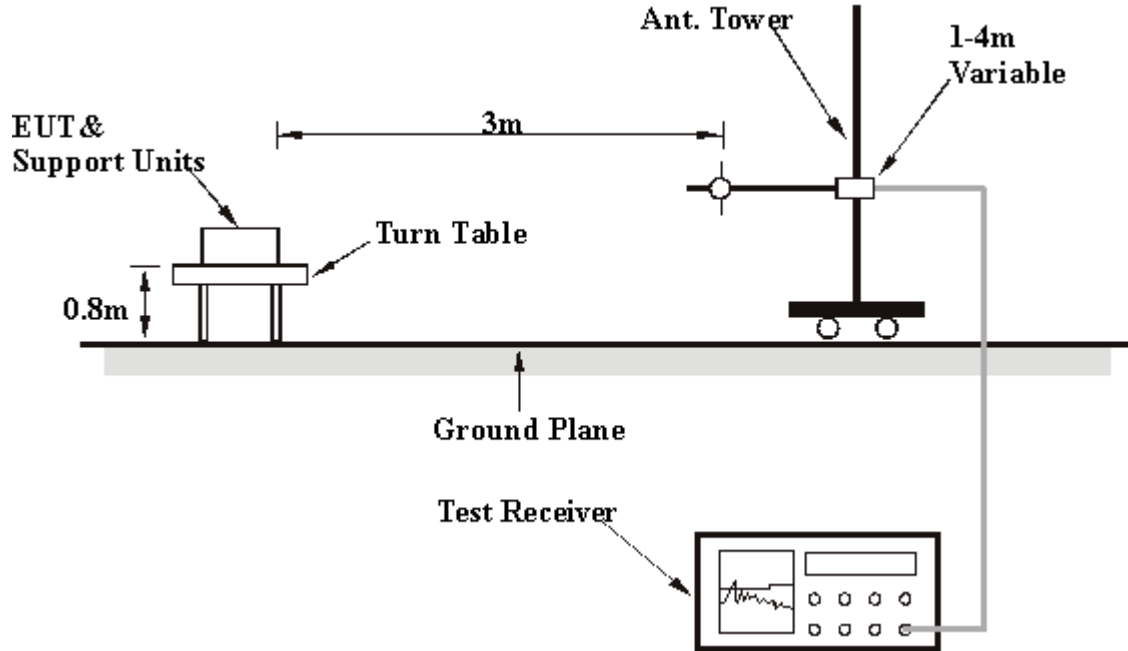
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.2.5 TEST SETUP



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

### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6





## 4.2.7 TEST RESULTS

### Below 1GHz Worst-Case Data\_with charging cable

EUT	EDA (Enterprise Digital Assistant)	MEASUREMENT DETAIL	
MODEL	MC7094	FREQUENCY RANGE	Below 1000MHz
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Match Tsui	TEST MODE	A

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.83	27.67 QP	40.00	-12.33	2.50 H	124	13.35	14.32
2	70.82	25.78 QP	40.00	-14.22	1.00 H	136	13.66	12.12
3	113.59	33.27 QP	43.50	-10.23	1.50 H	34	21.13	12.14
4	185.51	30.83 QP	43.50	-12.67	1.50 H	253	18.56	12.27
5	249.66	32.73 QP	46.00	-13.27	1.25 H	58	19.65	13.08
6	465.43	27.63 QP	46.00	-18.37	1.75 H	127	9.51	18.12
7	519.86	29.79 QP	46.00	-16.21	1.50 H	22	10.80	18.99
8	733.69	31.09 QP	46.00	-14.91	1.00 H	175	8.06	23.03
9	865.87	31.74 QP	46.00	-14.26	1.25 H	109	7.31	24.43

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.83	33.96 QP	40.00	-6.04	1.00 V	208	19.64	14.32
2	68.88	33.09 QP	40.00	-6.91	1.25 V	319	20.63	12.46
3	113.59	37.31 QP	43.50	-6.19	1.00 V	360	25.17	12.14
4	156.35	31.64 QP	43.50	-11.86	1.00 V	178	17.06	14.58
5	195.23	28.69 QP	43.50	-14.81	1.00 V	142	17.18	11.51
6	315.75	26.09 QP	46.00	-19.91	1.50 V	208	11.41	14.68
7	465.43	28.05 QP	46.00	-17.95	1.00 V	133	9.93	18.12
8	624.83	26.69 QP	46.00	-19.31	1.25 V	160	5.45	21.24
9	731.74	33.22 QP	46.00	-12.78	1.75 V	10	10.23	22.99
10	861.98	32.68 QP	46.00	-13.32	1.25 V	40	8.32	24.36
11	902.81	33.01 QP	46.00	-12.99	2.50 V	46	7.88	25.13

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value


**Below 1GHz Worst-Case Data\_with cradle**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 11	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Match Tsui	<b>TEST MODE</b>	B

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	113.59	37.16 QP	43.50	-6.34	1.50 H	292	25.02	12.14
2	164.13	28.69 QP	43.50	-14.81	1.50 H	112	14.43	14.26
3	199.12	34.05 QP	43.50	-9.45	1.50 H	283	22.85	11.20
4	249.66	38.24 QP	46.00	-7.76	1.00 H	256	25.16	13.08
5	307.98	30.38 QP	46.00	-15.62	1.00 H	259	15.88	14.51
6	465.43	29.21 QP	46.00	-16.79	2.00 H	331	11.09	18.12
7	597.62	30.86 QP	46.00	-15.14	1.50 H	22	10.03	20.83
8	729.80	34.71 QP	46.00	-11.29	1.00 H	232	11.77	22.94
9	861.98	31.21 QP	46.00	-14.79	1.00 H	172	6.85	24.36
10	898.92	39.46 QP	46.00	-6.54	1.50 H	112	14.38	25.08

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.83	29.15 QP	40.00	-10.85	1.00 V	88	14.83	14.32
2	113.59	37.48 QP	43.50	-6.02	1.00 V	205	25.34	12.14
3	199.12	30.69 QP	43.50	-12.81	2.00 V	151	19.49	11.20
4	249.66	37.60 QP	46.00	-8.40	1.50 V	328	24.52	13.08
5	393.51	31.29 QP	46.00	-14.71	1.00 V	352	14.80	16.48
6	457.66	34.26 QP	46.00	-11.74	1.00 V	352	16.24	18.01
7	500.42	31.72 QP	46.00	-14.28	1.00 V	298	13.12	18.59
8	572.34	31.59 QP	46.00	-14.41	1.00 V	358	11.41	20.18
9	729.80	37.05 QP	46.00	-8.95	2.00 V	199	14.11	22.94
10	898.92	34.89 QP	46.00	-11.11	1.00 V	112	9.80	25.08

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value


**Below 1GHz Worst-Case Data\_battery mode**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 11	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	3.7Vdc
<b>TESTED BY</b>	Match Tsui	<b>TEST MODE</b>	C

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	111.64	29.73 QP	43.50	-13.77	1.50 H	91	17.79	11.94
2	154.41	26.46 QP	43.50	-17.04	1.00 H	292	11.93	14.53
3	185.51	28.54 QP	43.50	-14.96	2.00 H	145	16.27	12.27
4	465.43	30.89 QP	46.00	-15.11	2.00 H	253	12.77	18.12
5	729.80	32.80 QP	46.00	-13.20	2.00 H	223	9.86	22.94
6	861.98	31.99 QP	46.00	-14.01	1.00 H	346	7.63	24.36

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.78	25.02 QP	40.00	-14.98	1.00 V	193	10.40	14.62
2	113.59	37.11 QP	43.50	-6.39	1.00 V	214	24.97	12.14
3	166.07	28.92 QP	43.50	-14.58	1.00 V	226	14.85	14.07
4	249.66	25.13 QP	46.00	-20.87	1.50 V	298	12.05	13.08
5	465.43	28.00 QP	46.00	-18.00	1.50 V	241	9.88	18.12
6	519.86	28.91 QP	46.00	-17.09	1.00 V	247	9.92	18.99
7	733.69	30.56 QP	46.00	-15.44	2.00 V	61	7.53	23.03
8	867.82	32.44 QP	46.00	-13.56	1.00 V	271	7.97	24.47

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value

**802.11b DSSS modulation**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 1	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	CCK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	11Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.88 PK	74.00	-14.12	1.05 H	311	27.84	32.04
1	2390.00	47.59 AV	54.00	-6.41	1.05 H	311	15.55	32.04
2	*2412.00	108.79 PK			1.05 H	311	76.66	32.13
2	*2412.00	101.64 AV			1.05 H	311	69.51	32.13
3	4824.00	45.35 PK	74.00	-28.65	1.02 H	311	7.15	38.20
3	4824.00	34.47 AV	54.00	-19.53	1.02 H	311	-3.73	38.20

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.30 PK	74.00	-19.70	1.57 V	324	22.26	32.04
1	2390.00	45.44 AV	54.00	-8.56	1.57 V	324	13.40	32.04
2	*2412.00	102.86 PK			1.57 V	324	70.73	32.13
2	*2412.00	95.32 AV			1.57 V	324	63.19	32.13
3	4824.00	45.66 PK	74.00	-28.34	1.00 V	320	7.46	38.20
3	4824.00	34.77 AV	54.00	-19.23	1.00 V	320	-3.43	38.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. " \* " : Fundamental frequency



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 6	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	CCK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	11Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	110.82 PK			1.00 H	308	78.57	32.25
1	*2437.00	103.28 AV			1.00 H	308	71.03	32.25
2	4874.00	45.89 PK	74.00	-28.11	1.00 H	316	7.57	38.32
2	4874.00	34.16 AV	54.00	-19.84	1.00 H	316	-4.16	38.32

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	106.89 PK			1.51 V	12	74.64	32.25
1	*2437.00	103.09 AV			1.51 V	12	70.84	32.25
2	4874.00	45.79 PK	74.00	-28.21	1.00 V	124	7.47	38.32
2	4874.00	34.92 AV	54.00	-19.08	1.00 V	124	-3.40	38.32

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. " \* " : Fundamental frequency



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 11	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	CCK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	11Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	106.23 PK			1.00 H	319	73.87	32.36
1	*2462.00	98.47 AV			1.00 H	319	66.11	32.36
2	2483.50	55.61 PK	74.00	-18.39	1.00 H	319	23.15	32.46
2	2483.50	46.99 AV	54.00	-7.01	1.00 H	319	14.53	32.46
3	4924.00	46.09 PK	74.00	-27.91	1.20 H	350	7.63	38.46
3	4924.00	35.23 AV	54.00	-18.77	1.20 H	350	-3.23	38.46

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2438.50	55.66 PK	74.00	-18.34	1.55 V	350	23.41	32.25
1	2438.50	45.75 AV	54.00	-8.25	1.55 V	350	13.50	32.25
2	*2462.00	102.61 PK			1.50 V	350	70.25	32.36
2	*2462.00	95.00 AV			1.50 V	350	62.64	32.36
3	4924.00	45.84 PK	74.00	-28.16	1.00 V	320	7.38	38.46
3	4924.00	35.08 AV	54.00	-18.92	1.00 V	320	-3.38	38.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. " \* " : Fundamental frequency



## 802.11g OFDM modulation

EUT	EDA (Enterprise Digital Assistant)	MEASUREMENT DETAIL	
MODEL	MC7094	FREQUENCY RANGE	1 ~ 25GHz
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak(PK) Average (AV)
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	26deg. C, 65%RH, 991hPa
TRANSFER RATE	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Jay Hsu		

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.25 PK	74.00	-10.75	1.01 H	310	31.21	32.04
<b>1</b>	<b>2390.00</b>	<b>50.50 AV</b>	<b>54.00</b>	<b>-3.50</b>	<b>1.01 H</b>	<b>310</b>	<b>18.46</b>	<b>32.04</b>
2	*2412.00	107.82 PK			1.01 H	310	75.69	32.13
2	*2412.00	98.68 AV			1.01 H	310	66.55	32.13
3	4824.00	44.38 PK	74.00	-29.62	1.01 H	10	6.18	38.20
3	4824.00	33.35 AV	54.00	-20.65	1.01 H	10	-4.85	38.20

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.64 PK	74.00	-16.36	1.26 V	305	25.60	32.04
1	2390.00	45.02 AV	54.00	-8.98	1.26 V	305	12.98	32.04
2	*2412.00	101.54 PK			1.26 V	305	69.41	32.13
2	*2412.00	92.69 AV			1.26 V	305	60.56	32.13
3	4824.00	45.28 PK	74.00	-28.72	1.00 V	0	7.08	38.20
3	4824.00	33.19 AV	54.00	-20.81	1.00 V	0	-5.01	38.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. “ \* “ : Fundamental frequency



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 6	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	109.19 PK			1.00 H	311	76.94	32.25
1	*2437.00	99.74 AV			1.00 H	311	67.49	32.25
2	4874.00	44.37 PK	74.00	-29.63	1.00 H	311	6.05	38.32
2	4874.00	33.59 AV	54.00	-20.41	1.00 H	311	-4.73	38.32

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.79 PK			1.19 V	351	71.54	32.25
1	*2437.00	94.38 AV			1.19 V	351	62.13	32.25
2	4874.00	44.66 PK	74.00	-29.34	1.00 V	1	6.34	38.32
2	4874.00	33.88 AV	54.00	-20.12	1.00 V	1	-4.44	38.32

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. “ \* “ : Fundamental frequency





<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 11	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.20 PK			1.28 H	315	72.84	32.36
1	*2462.00	95.76 AV			1.28 H	315	63.40	32.36
2	2483.50	58.03 PK	74.00	-15.97	1.28 H	315	25.57	32.46
2	2483.50	47.29 AV	54.00	-6.71	1.28 H	315	14.83	32.46
3	4924.00	44.99 PK	74.00	-29.01	1.28 H	315	6.53	38.46
3	4924.00	34.09 AV	54.00	-19.91	1.28 H	315	-4.37	38.46

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	101.83 PK			1.53 V	0	69.47	32.36
1	*2462.00	92.52 AV			1.53 V	0	60.16	32.36
2	2483.50	55.13 PK	74.00	-18.87	1.59 V	0	22.67	32.46
2	2483.50	46.38 AV	54.00	-7.62	1.59 V	0	13.92	32.46
3	4924.00	44.99 PK	74.00	-29.01	1.00 V	360	6.53	38.46
3	4924.00	34.09 AV	54.00	-19.91	1.00 V	360	-4.37	38.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The limit value is defined as per 15.247
  6. “ \* “ : Fundamental frequency



### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

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

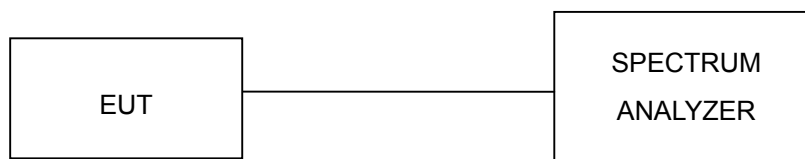
### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.3.5 TEST SETUP



### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

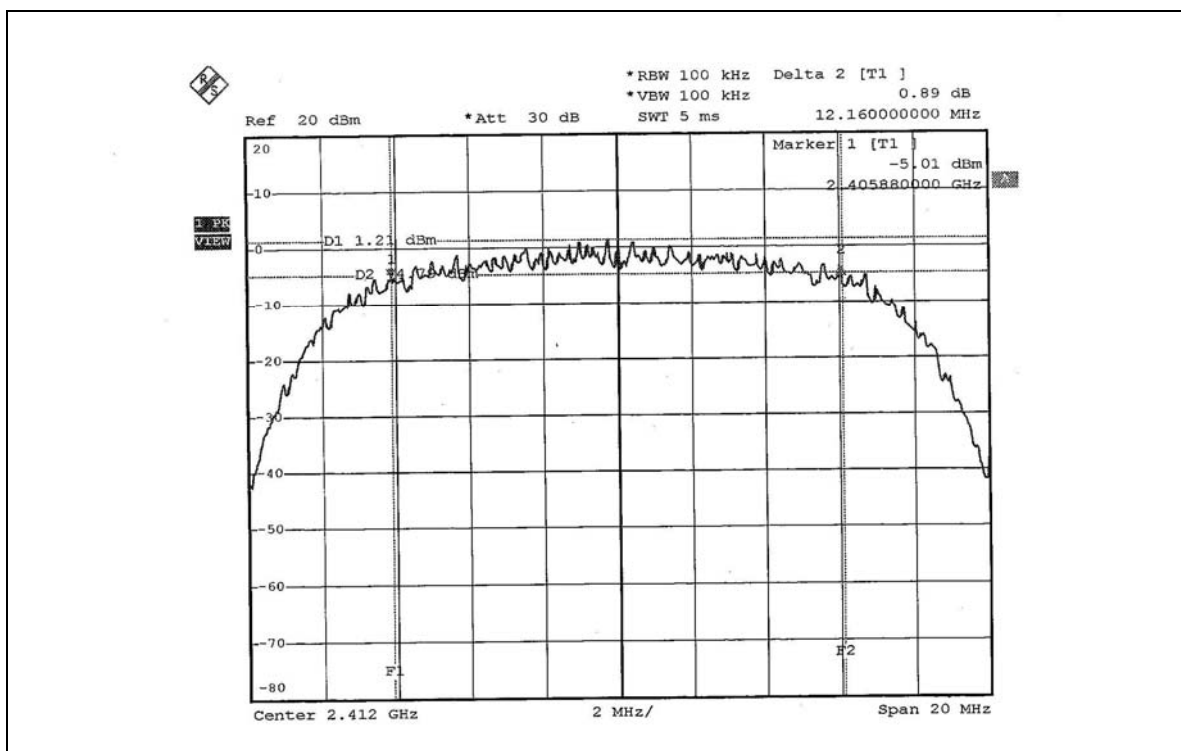
802.11b DSSS modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	CCK	<b>TRANSFER RATE</b>	11Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

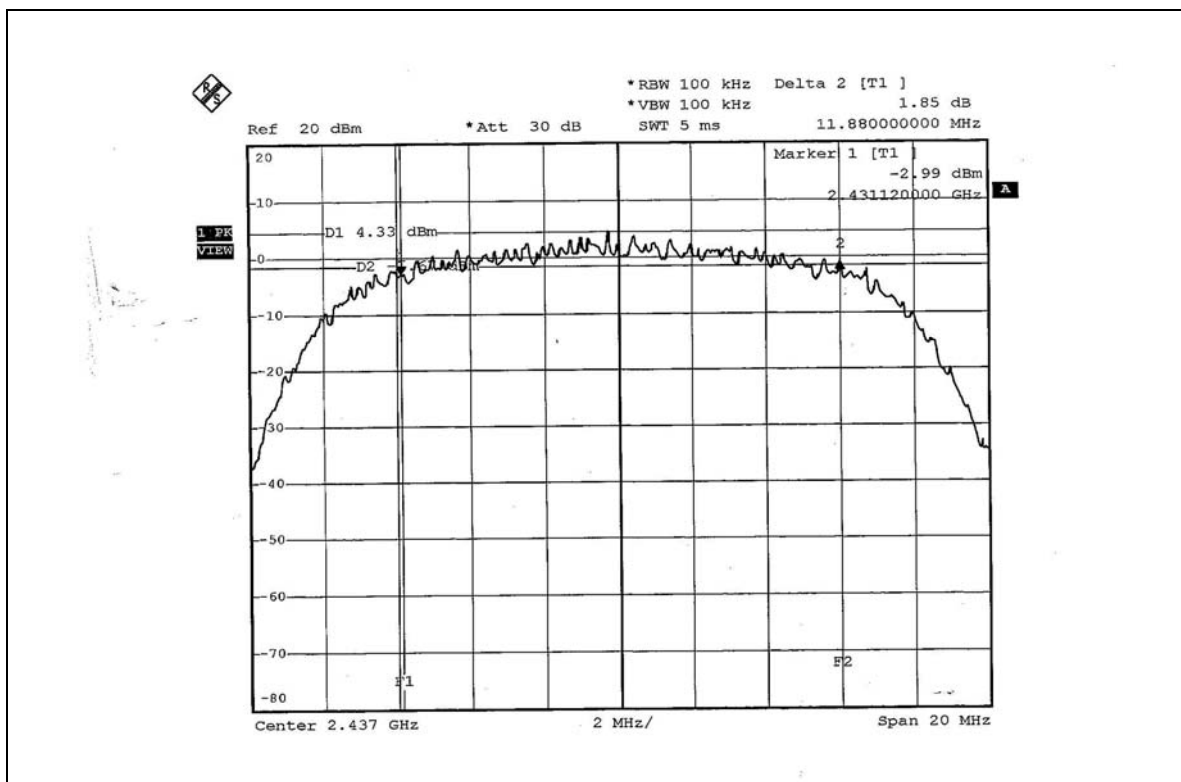
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.16	0.5	PASS
6	2437	11.88	0.5	PASS
11	2462	11.56	0.5	PASS



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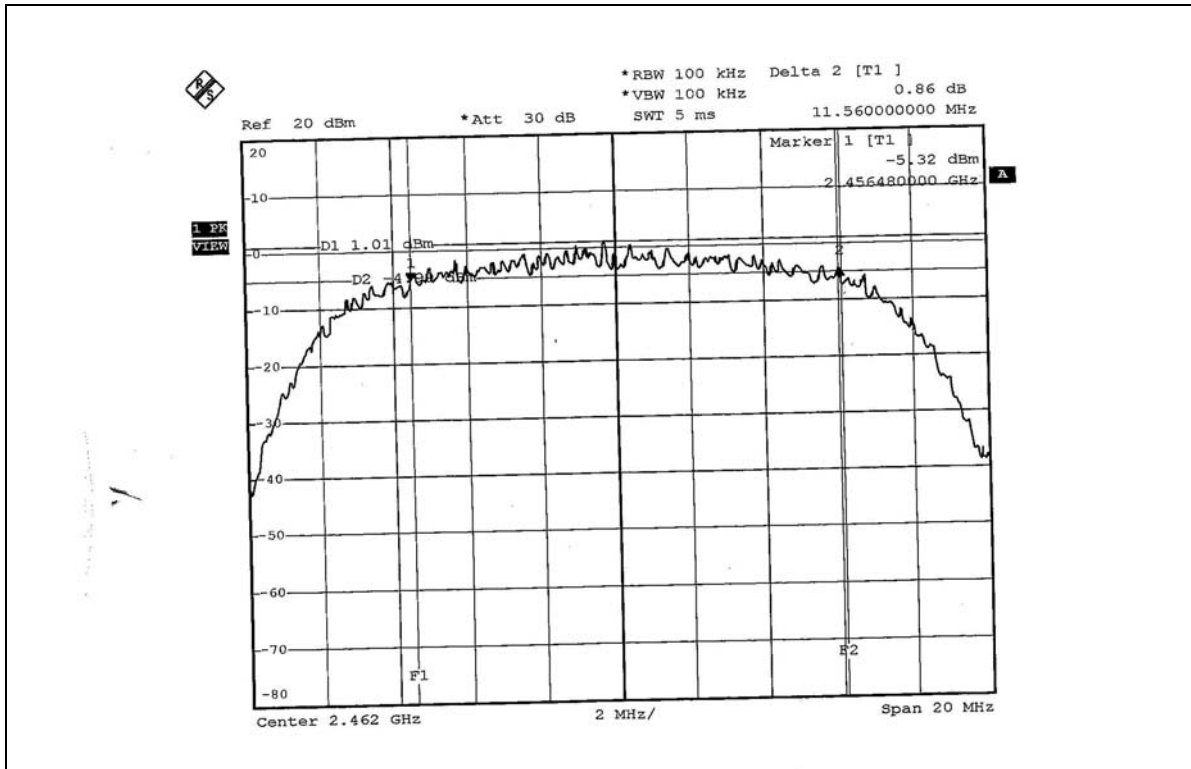


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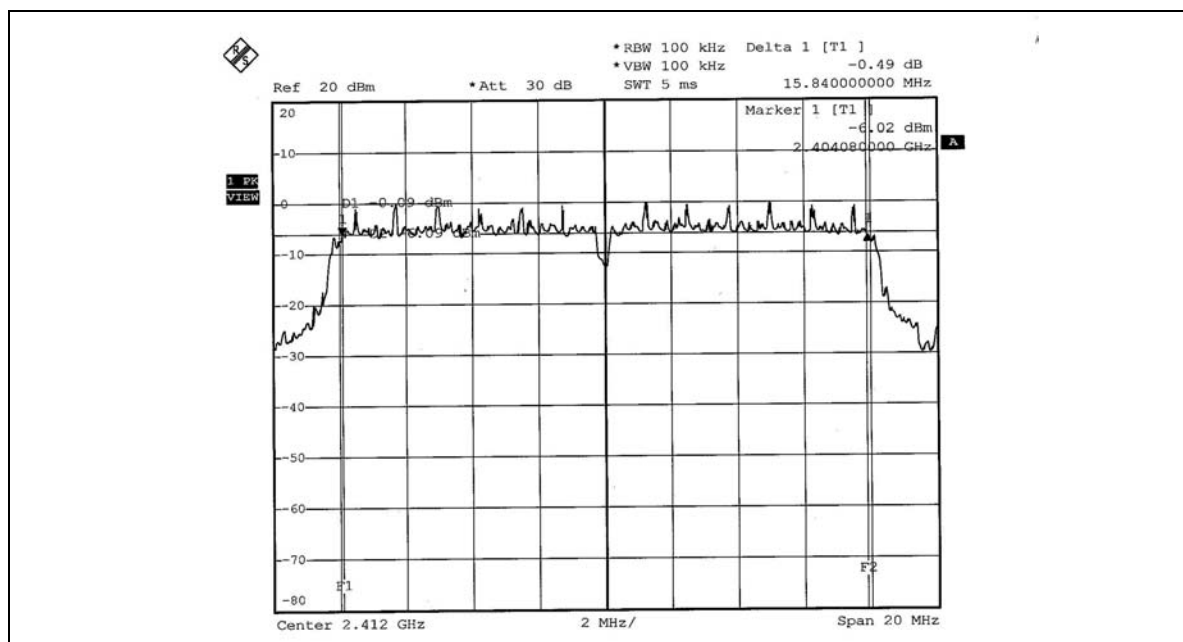
**802.11g OFDM modulation**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

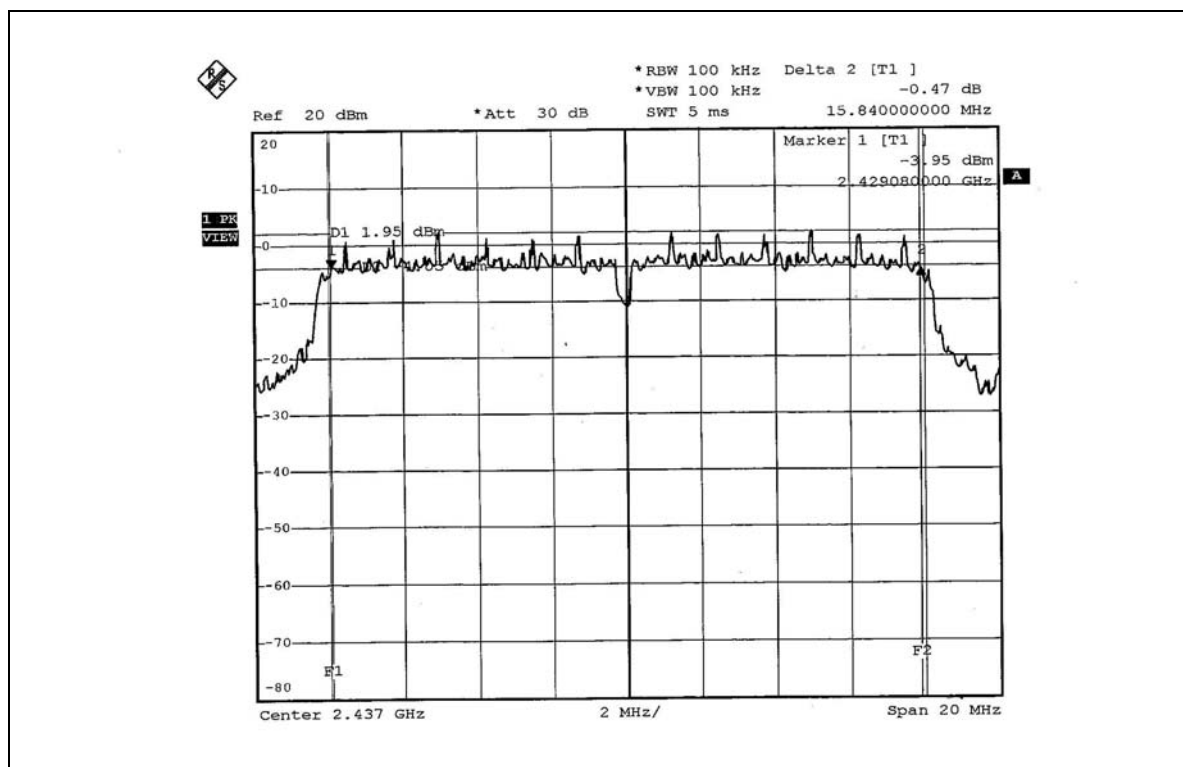
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	2412	15.84	0.5	PASS
6	2437	15.84	0.5	PASS
11	2462	15.60	0.5	PASS



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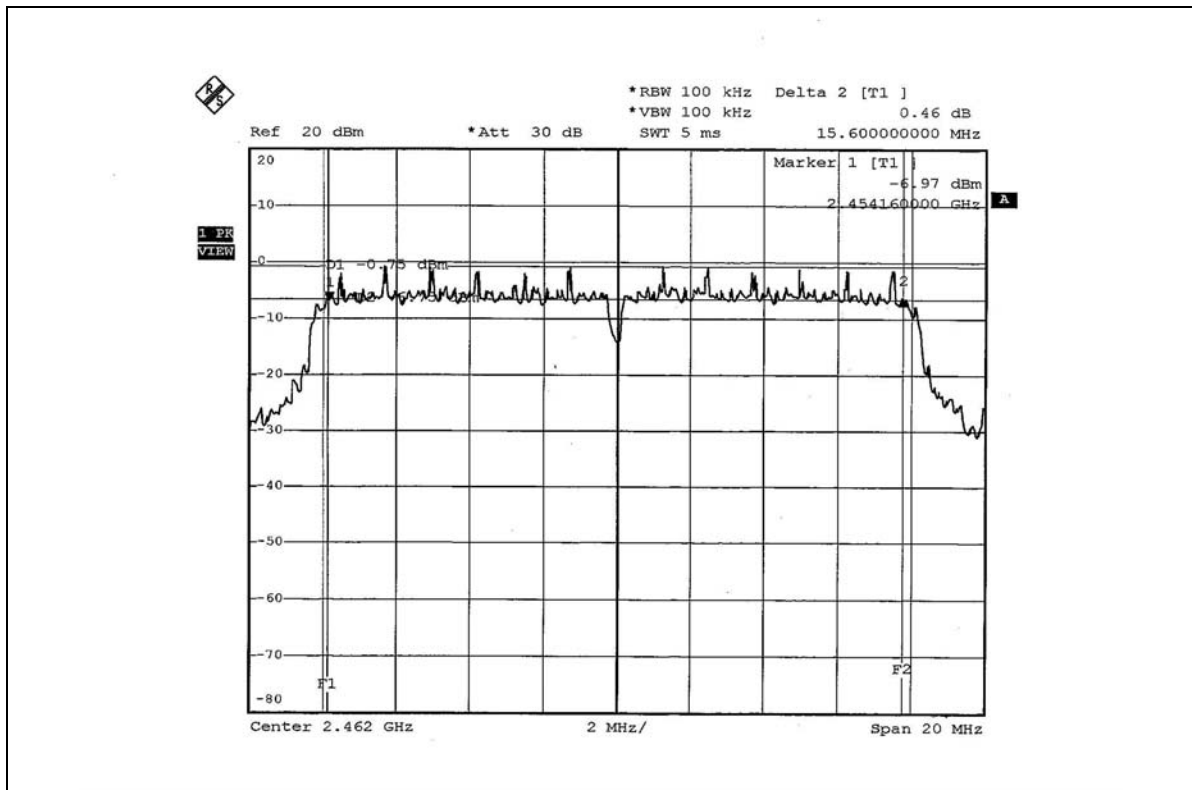


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#### 4.4 MAXIMUM PEAK OUTPUT POWER

##### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

##### 4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2005
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Feb. 01, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

**NOTE:**

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



#### 4.4.1 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

#### 4.4.2 DEVIATION FROM TEST STANDARD

No deviation

#### 4.4.3 TEST SETUP



#### 4.4.4 EUT OPERATING CONDITIONS

Same as Item 4.3.6



### 4.4.3 TEST RESULTS

#### 802.11b DSSS modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	CCK	<b>TRANSFER RATE</b>	11Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	22.439	13.51	30	PASS
6	2437	40.087	16.03	30	PASS
11	2462	25.177	14.01	30	PASS

#### 802.11g OFDM modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	25.527	14.07	30	PASS
6	2437	44.978	16.53	30	PASS
11	2462	25.177	14.01	30	PASS



## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

**NOTE:**

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

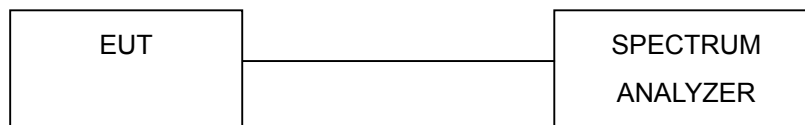
#### 4.5.3 TEST PROCEDURE

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

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



## 4.5.7 TEST RESULTS

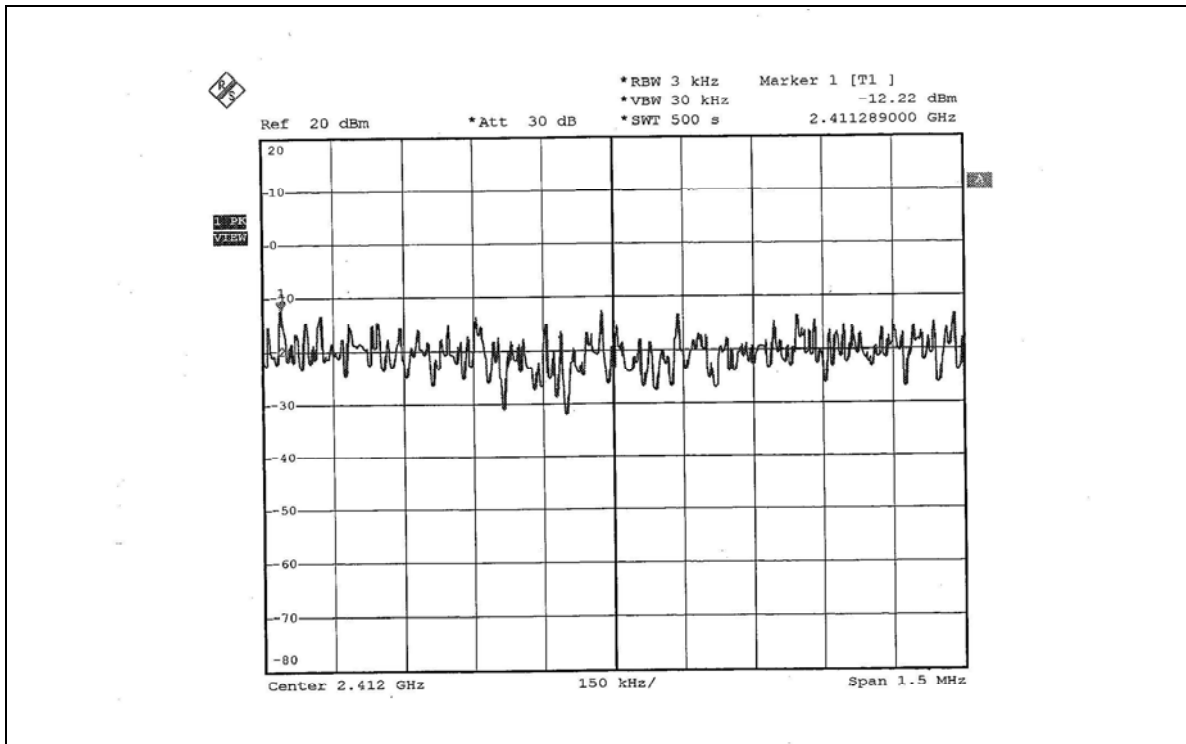
### 802.11b DSSS modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	CCK	<b>TRANSFER RATE</b>	11Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

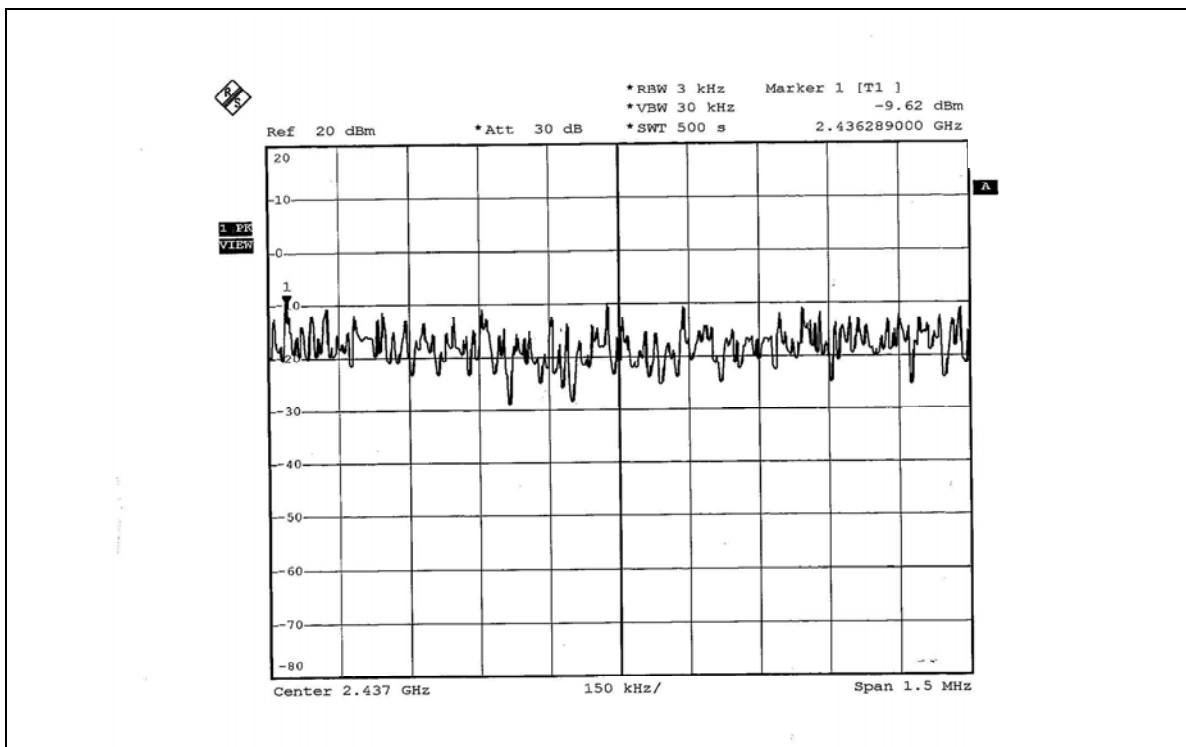
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz )</b>	<b>RF POWER LEVEL IN 3kHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	-12.22	8	PASS
6	2437	-9.62	8	PASS
11	2462	-12.79	8	PASS



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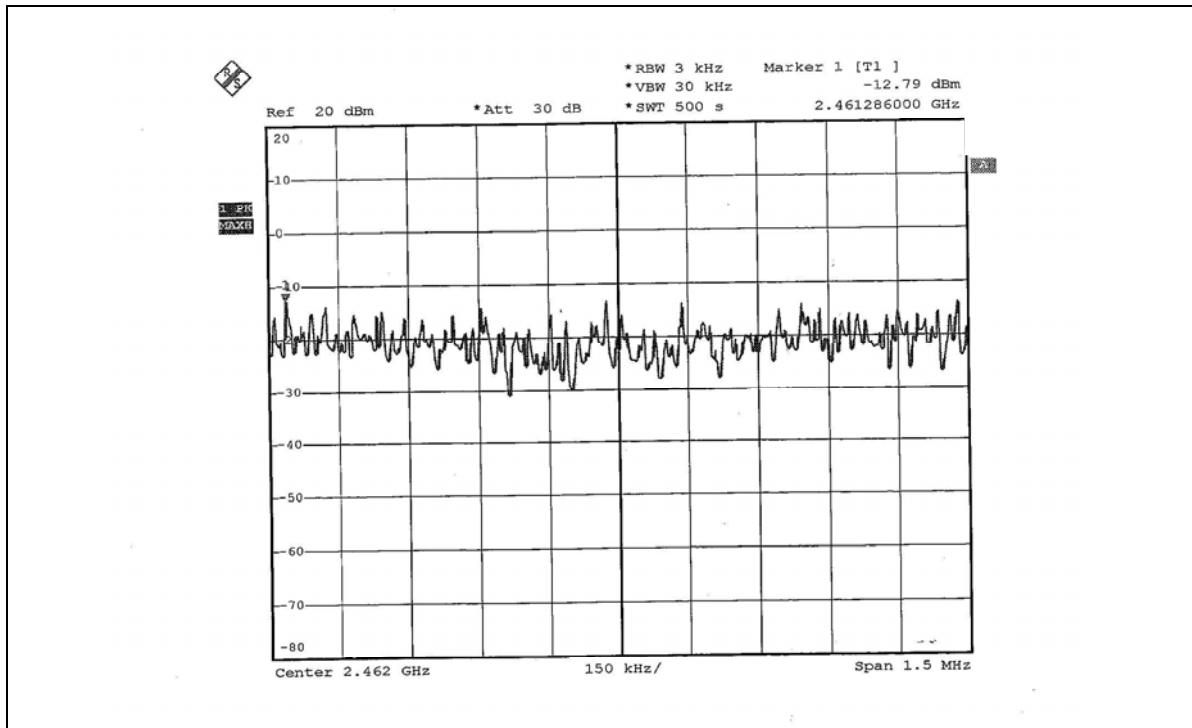
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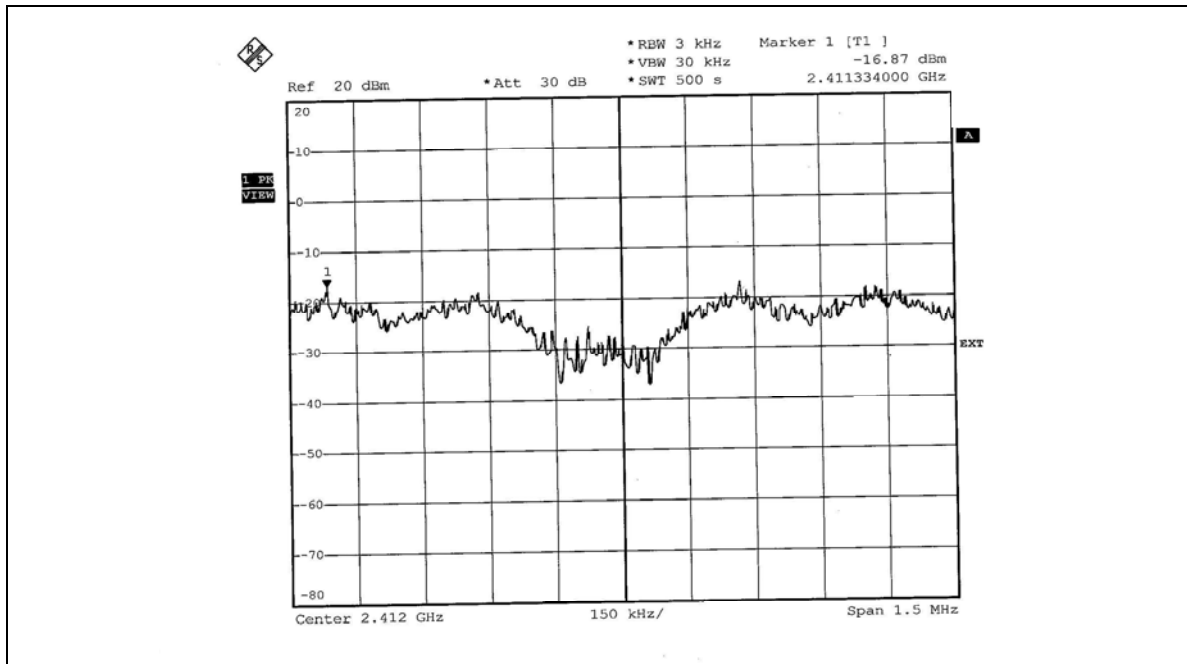
**802.11g OFDM modulation**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

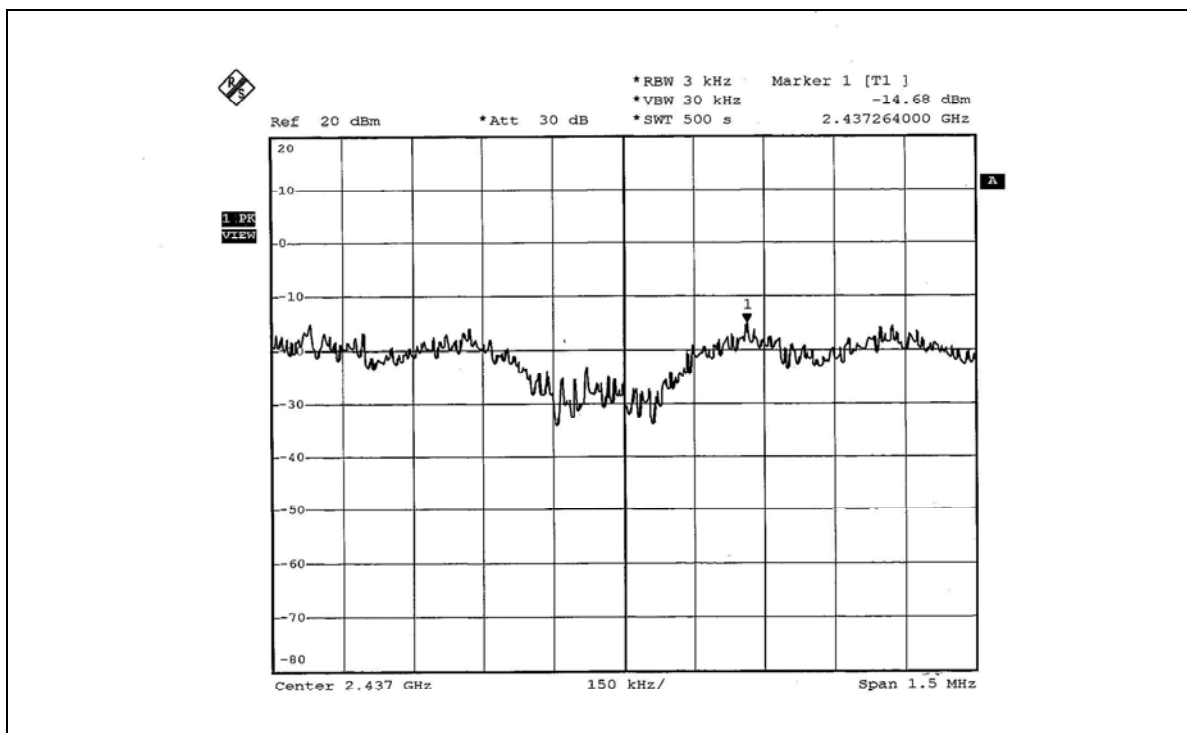
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz )</b>	<b>RF POWER LEVEL IN 3kHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	2412	-16.87	8	PASS
6	2437	-14.68	8	PASS
11	2462	-17.29	8	PASS



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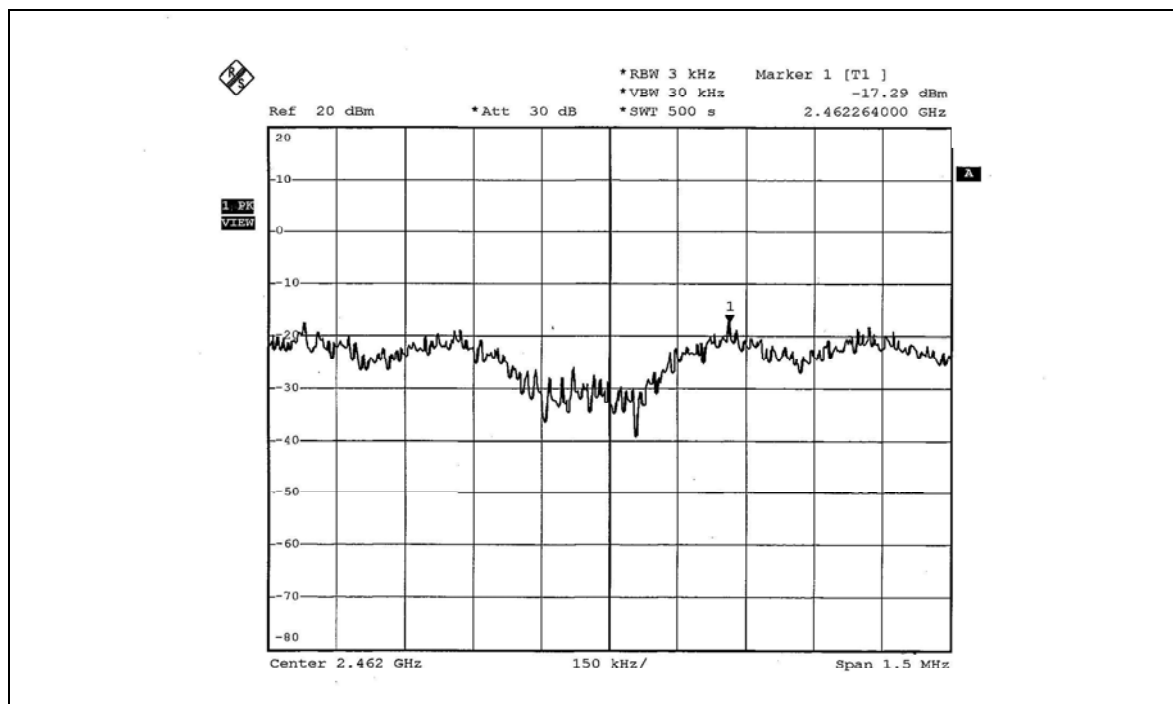


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## 4.6 BAND EDGES MEASUREMENT

### 4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

### 4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6



#### 4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

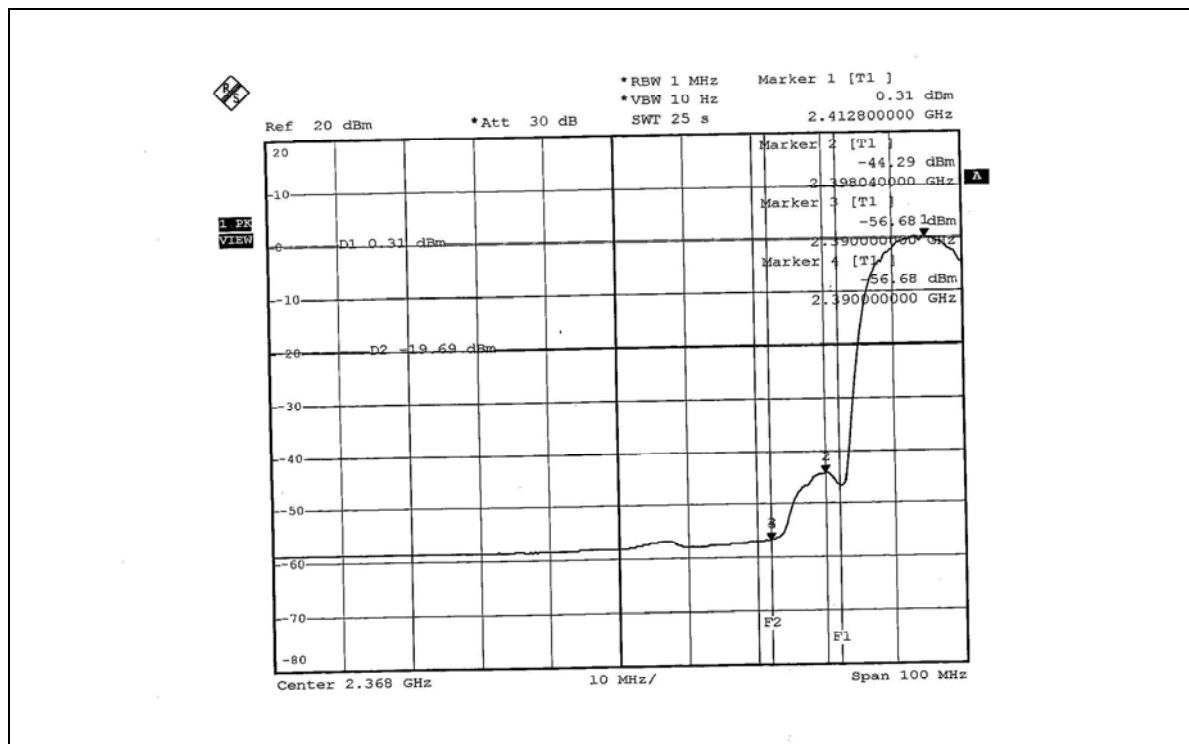
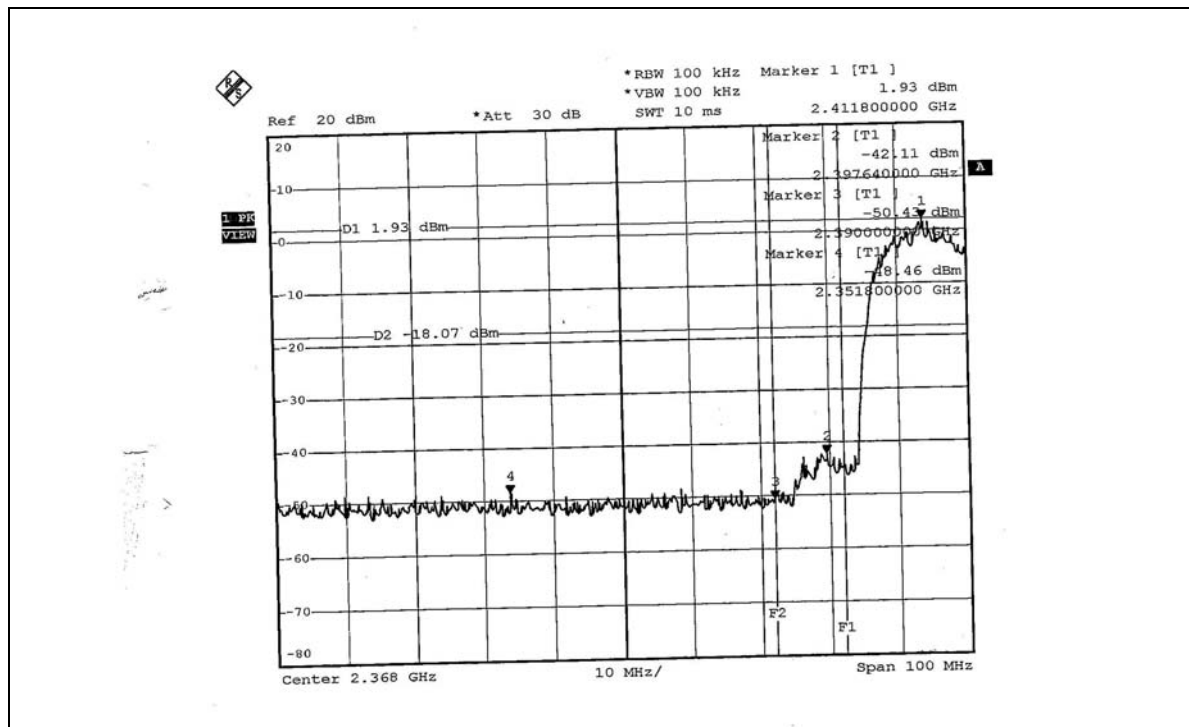
#### 802.11b DSSS modulation

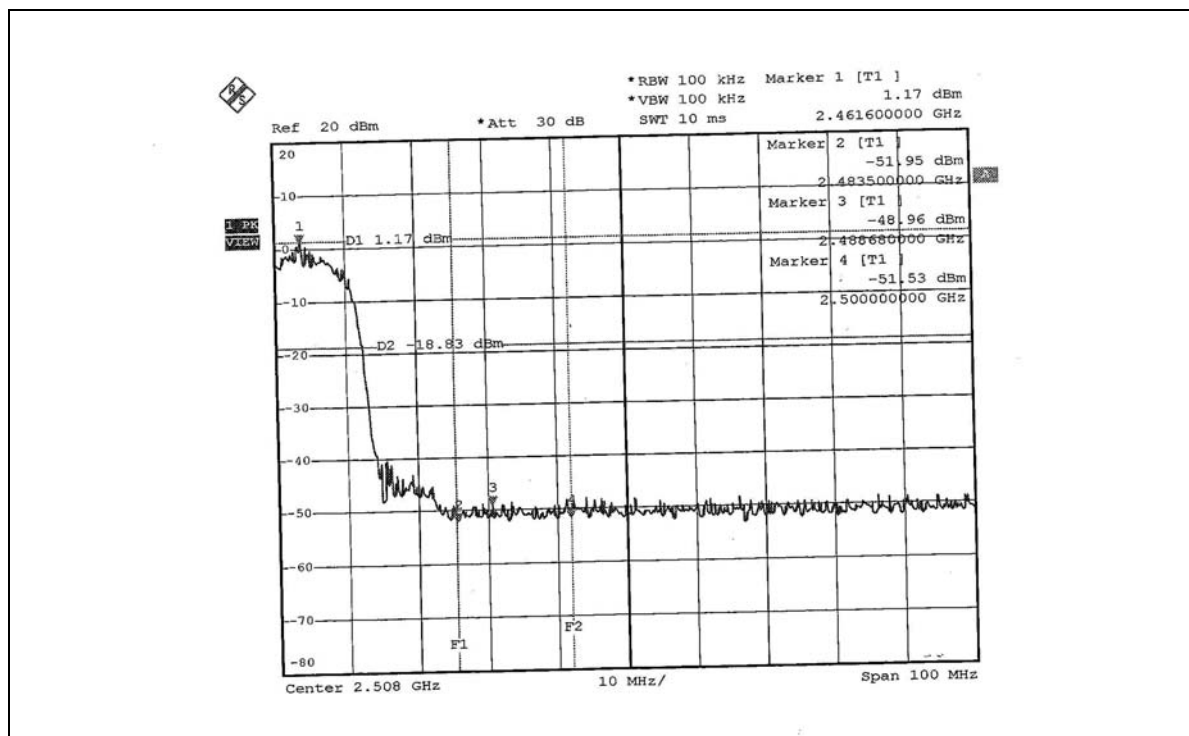
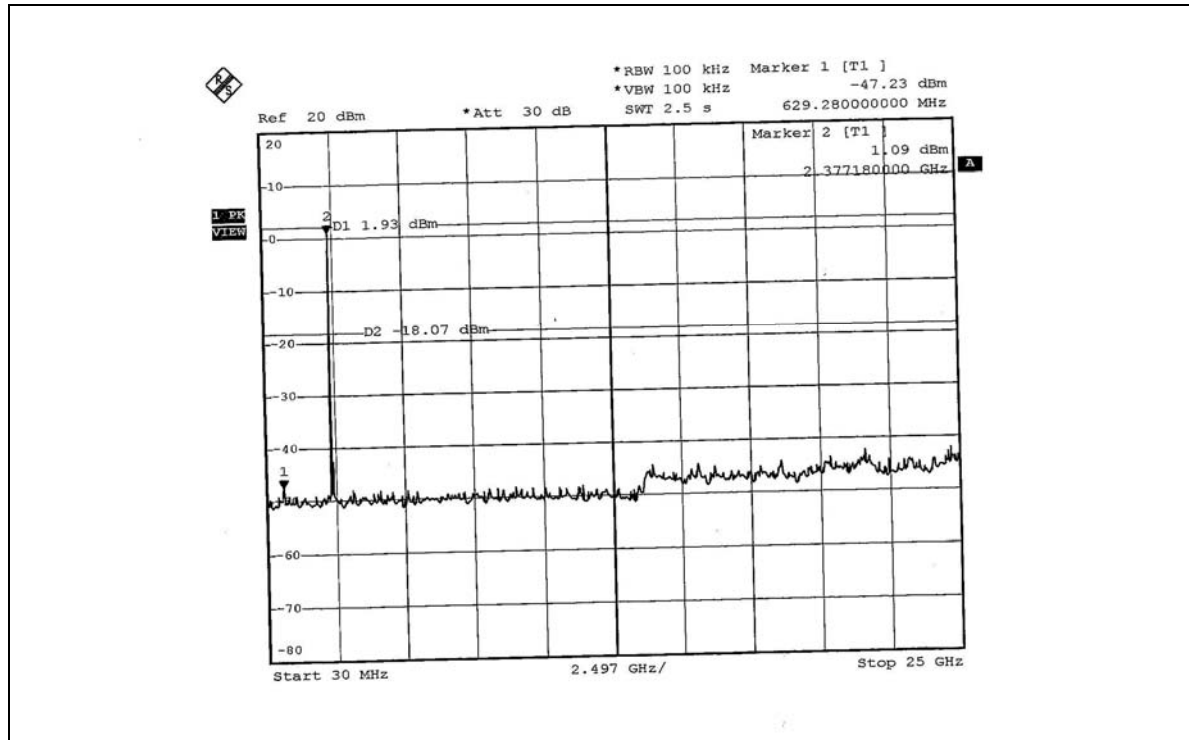
**NOTE 1:** The band edge emission plot on page 71 shows 50.39dBc between carrier maximum power and local maximum emission in restrict band (2.3518GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.79dBuV/m (Peak), so the maximum field strength in restrict band is  $108.79 - 50.39 = 58.40$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 71 shows 56.99dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.64dBuV/m (Average), so the maximum field strength in restrict band is  $101.64 - 56.99 = 44.65$ dBuV/m which is under 54dBuV/m limit.

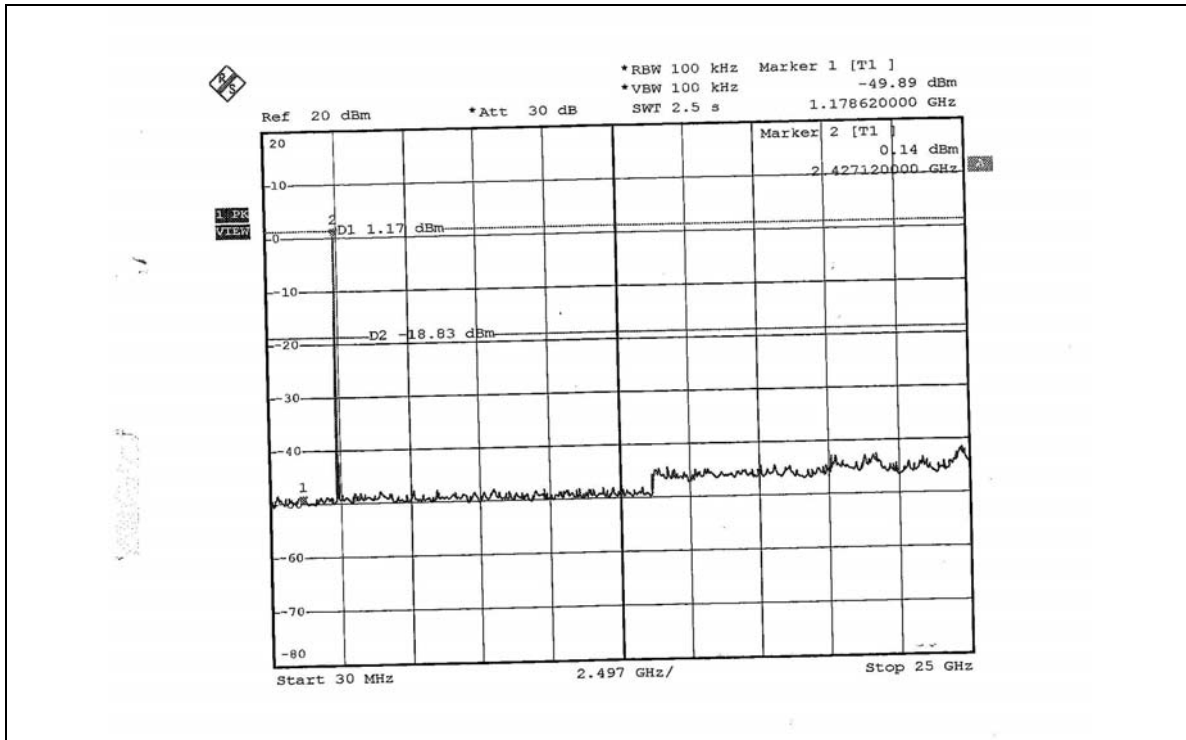
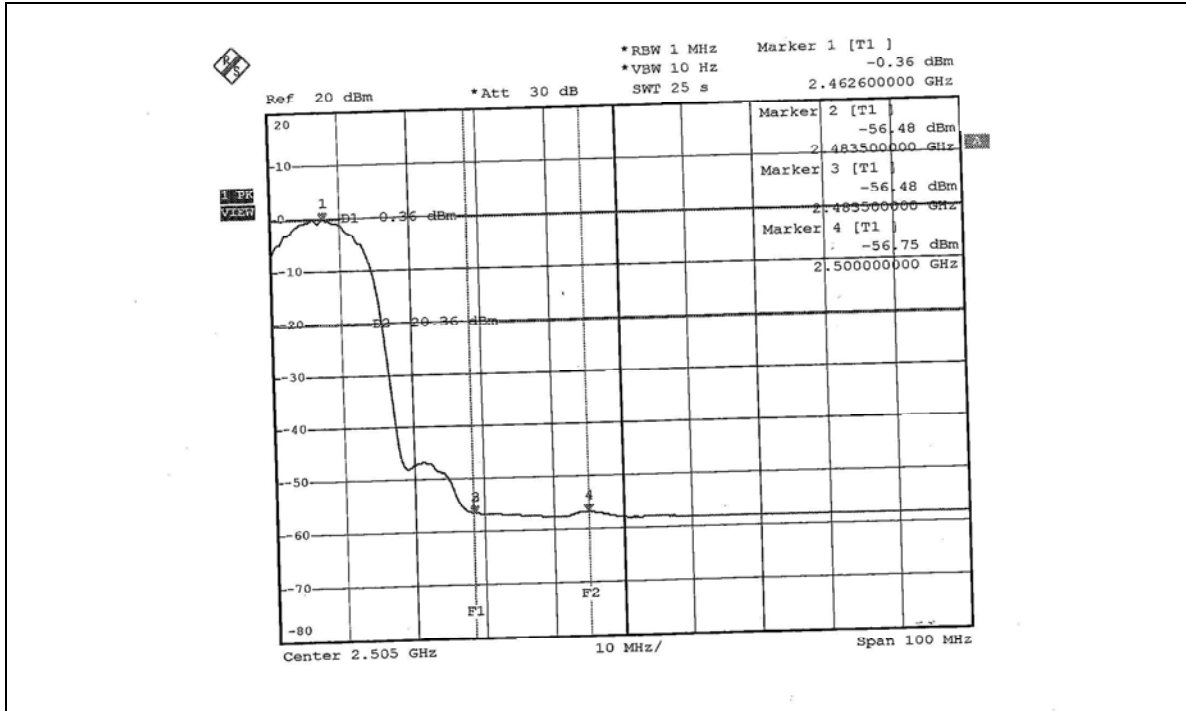
**NOTE 2:** The band edge emission plot on page 72 shows 50.13dBc between carrier maximum power and local maximum emission in restrict band (2.4887GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.23dBuV/m (Peak), so the maximum field strength in restrict band is  $106.23 - 50.13 = 56.10$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 73 shows 56.12dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.47dBuV/m (Average), so the maximum field strength in restrict band is  $98.47 - 56.12 = 42.35$ dBuV/m which is under 54dBuV/m limit.











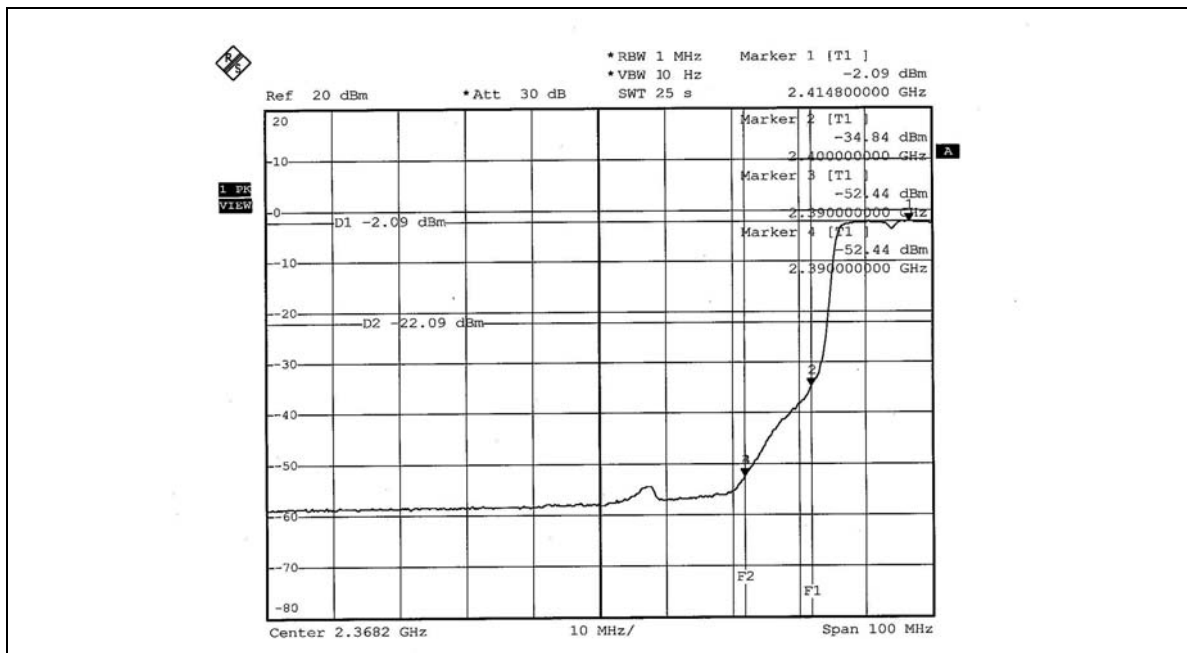
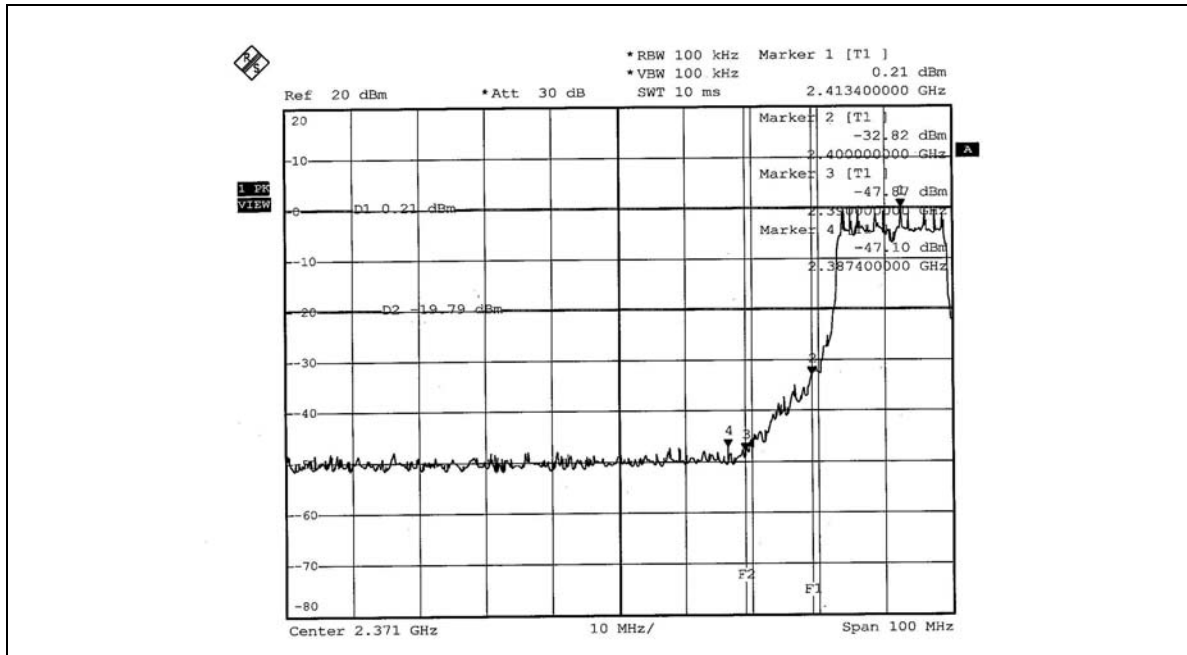
### 802.11g OFDM modulation

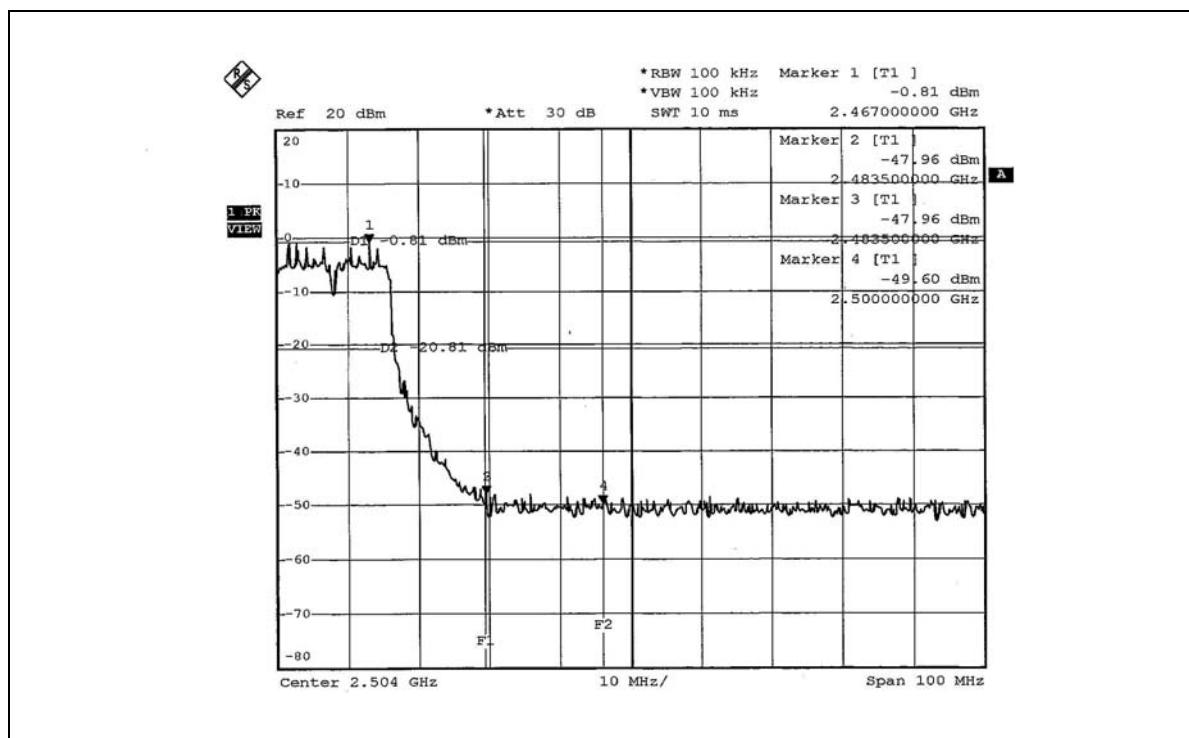
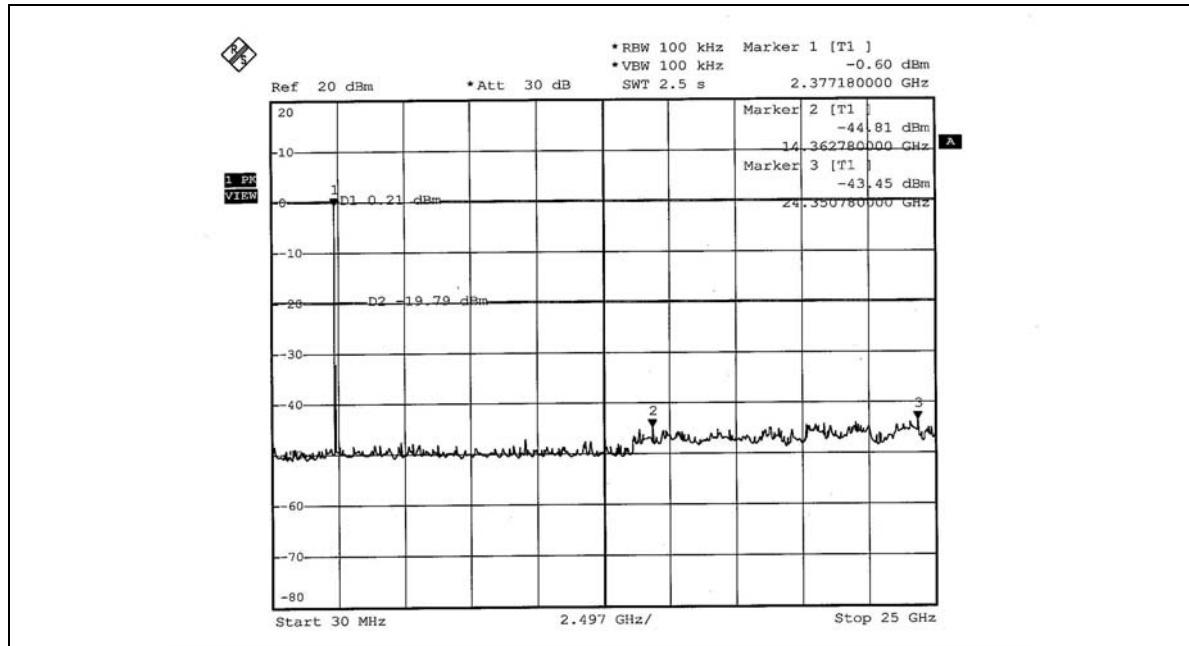
**NOTE 1:** The band edge emission plot on page 75 shows 47.31dBc between carrier maximum power and local maximum emission in restrict band (2.3874GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.82dBuV/m (Peak), so the maximum field strength in restrict band is  $107.82-47.31=60.51$ dBuV/m which is under 74dBuV/m limit.

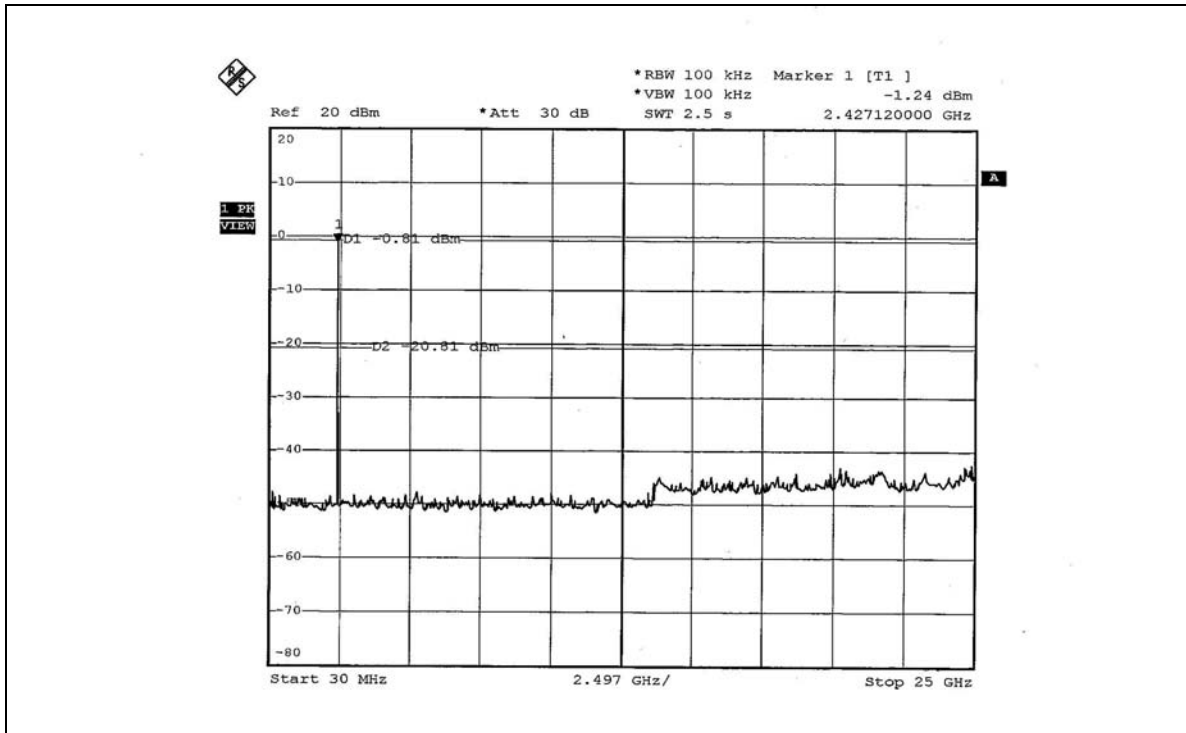
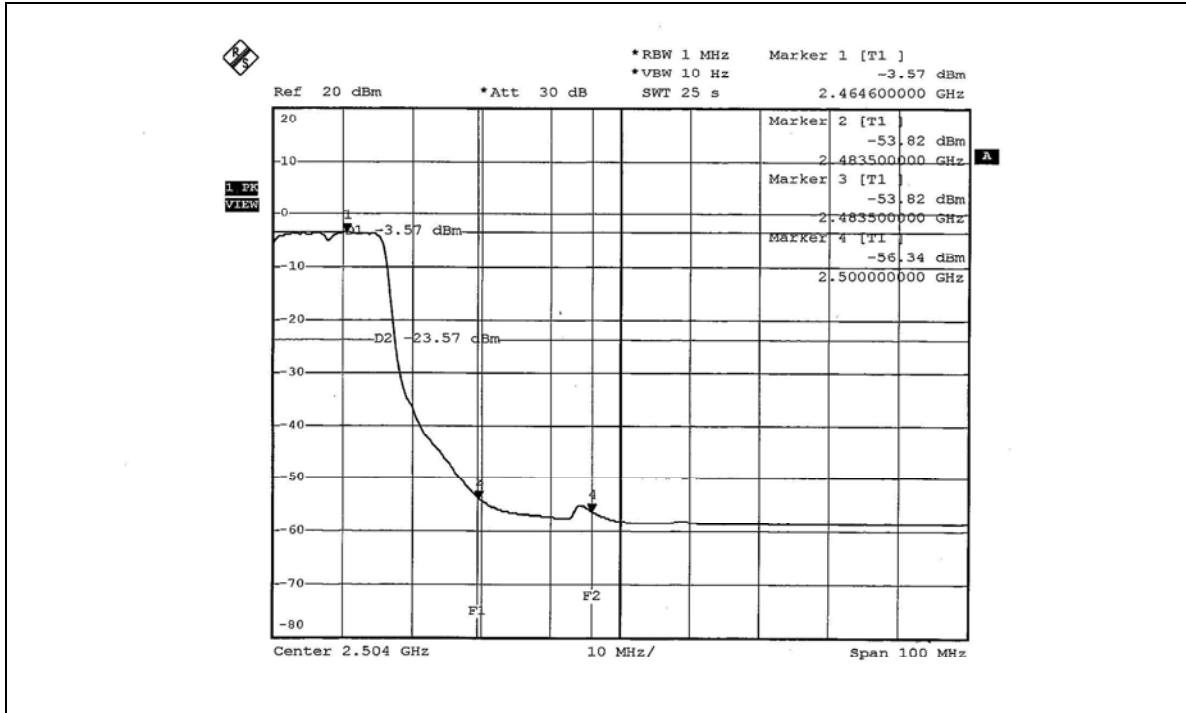
The band edge emission plot of on page 75 shows 50.35dBc between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.68dBuV/m (Average), so the maximum field strength in restrict band is  $98.68-50.35=48.33$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on page 76 shows 47.15dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.20dBuV/m (Peak), so the maximum field strength in restrict band is  $105.20-47.15=58.05$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 77 shows 50.25dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.76dBuV/m (Average), so the maximum field strength in restrict band is  $95.76-50.25=45.51$ dBuV/m which is under 54dBuV/m limit.









## **4.7 ANTENNA REQUIREMENT**

### **4.7.1 STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **4.7.2 ANTENNA CONNECTED CONSTRUCTION**

The antenna used in this product is PIFA antenna with UFL connector. The maximum Gain of the antenna is 2.0dBi.



## 5. TEST TYPES AND RESULTS (FOR 802.11a 5745~5825MHz Band)

### 5.1 CONDUCTED EMISSION MEASUREMENT

#### 5.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
- The lower limit shall apply at the transition frequencies.
    - The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
    - All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 06, 2005
RF signal cable Woken	5D-FB	Cable-HyC02-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 20, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 20, 2006
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  - The test was performed in HwaYa Shielded Room 3.
  - The VCCI Site Registration No. is C-2047.



### 5.1.3 TEST PROCEDURES

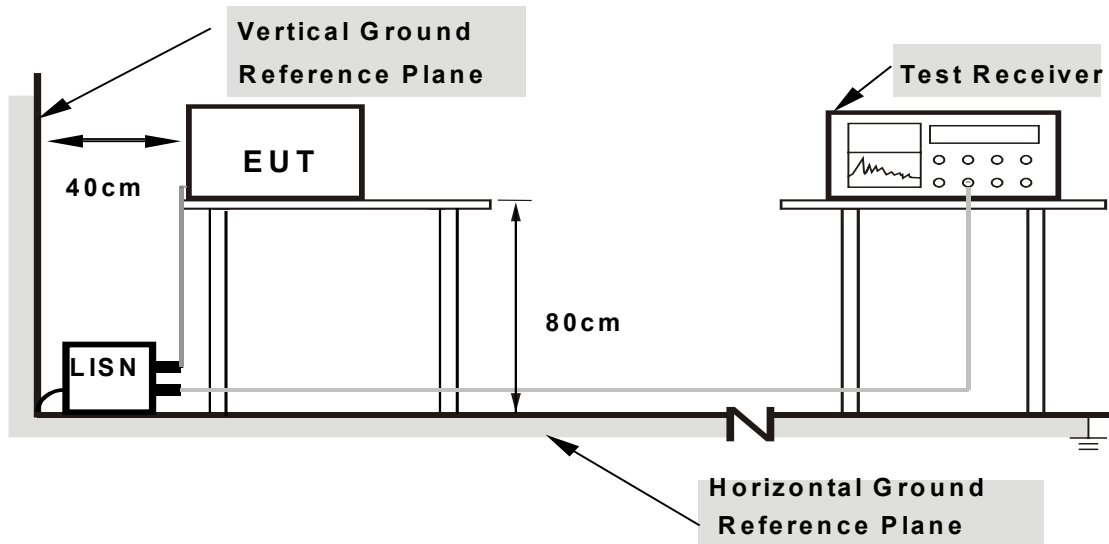
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit – 20dB) was not recorded.

### 5.1.4 DEVIATION FROM TEST STANDARD

No deviation



### 5.1.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
  2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

### 5.1.6 EUT OPERATING CONDITIONS

Same as 4.1.6



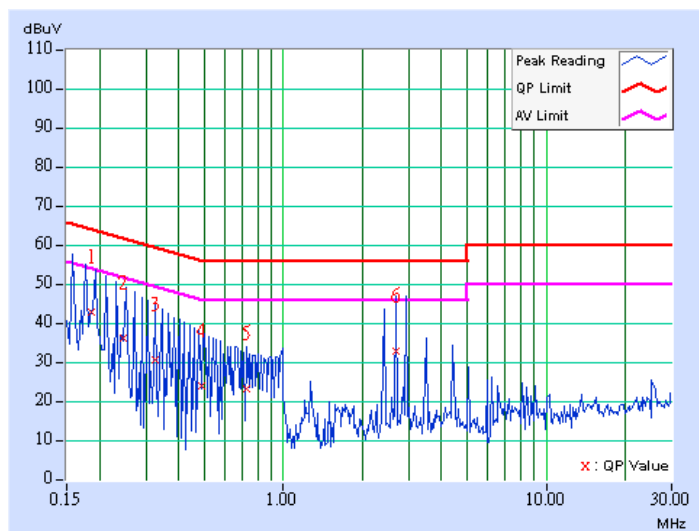
### 5.1.7 TEST RESULTS

#### Conducted Worst-Case Data\_with charging cable

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 5	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.11	42.59	-	42.70	-	64.26	54.26	-21.56	-
2	0.245	0.11	36.09	-	36.20	-	61.92	51.92	-25.71	-
3	0.326	0.12	30.35	-	30.47	-	59.56	49.56	-29.09	-
4	0.488	0.14	23.82	-	23.96	-	56.20	46.20	-32.25	-
5	0.728	0.18	22.98	-	23.16	-	56.00	46.00	-32.84	-
6	2.672	0.26	32.77	-	33.03	-	56.00	46.00	-22.97	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

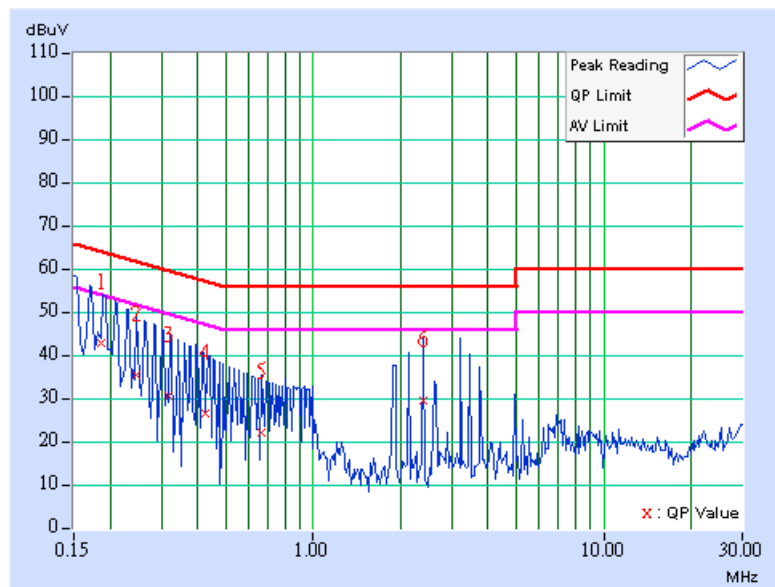




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 5	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	A

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.187	0.11	42.77	-	42.88	-	64.19
2	0.248	0.11	35.44	-	35.55	-	61.84	51.84	-26.28	-
3	0.318	0.12	30.45	-	30.57	-	59.76	49.76	-29.19	-
4	0.425	0.12	26.29	-	26.41	-	57.35	47.35	-30.93	-
5	0.666	0.17	21.88	-	22.05	-	56.00	46.00	-33.95	-
6	2.391	0.26	29.26	-	29.52	-	56.00	46.00	-26.48	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



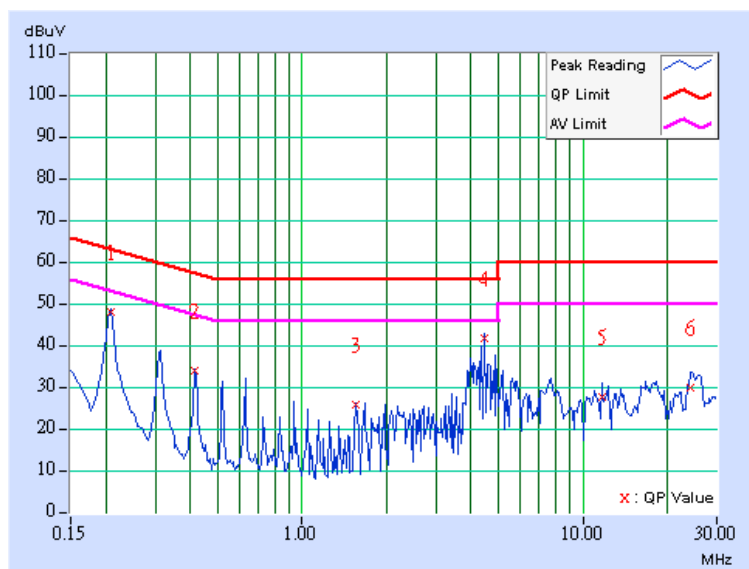


**Conducted Worst-Case Data\_with cradle**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 5	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.209	0.11	46.89	-	47.00	-	63.26
2	0.416	0.11	32.70	-	32.81	-	57.54	47.54	-24.72	-
3	1.563	0.25	24.46	-	24.71	-	56.00	46.00	-31.29	-
4	4.480	0.40	40.60	-	41.00	-	56.00	46.00	-15.00	-
5	11.666	0.54	26.46	-	27.00	-	60.00	50.00	-33.00	-
6	24.275	1.30	28.86	-	30.16	-	60.00	50.00	-29.84	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

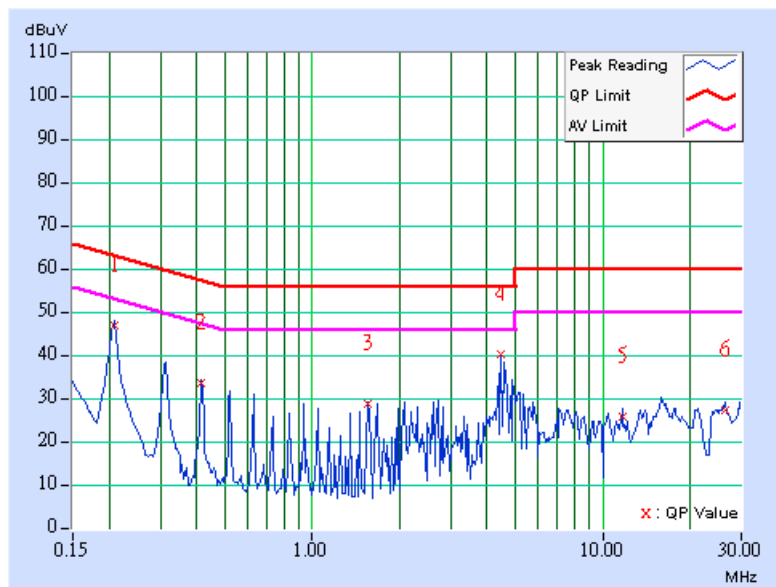




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 5	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu	<b>TEST MODE</b>	B

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.209	0.11	45.92	-	46.03	-	63.26
2	0.416	0.11	32.74	-	32.85	-	57.54	47.54	-24.68	-
3	1.563	0.25	27.94	-	28.19	-	56.00	46.00	-27.81	-
4	4.480	0.39	39.37	-	39.76	-	56.00	46.00	-16.24	-
5	11.672	0.44	25.12	-	25.56	-	60.00	50.00	-34.44	-
6	26.258	0.95	26.63	-	27.58	-	60.00	50.00	-32.42	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 5.2 RADIATED EMISSION MEASUREMENT

### 5.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



## 5.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 16, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2006
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Feb. 17, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Feb. 17, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA
26GHz ~ 40GHz Amplifier	AMF-6F-2600400	923362	Mar. 13, 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 Chamber 1.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Site Registration No. is IC4924-2.



### 5.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**NOTE:**

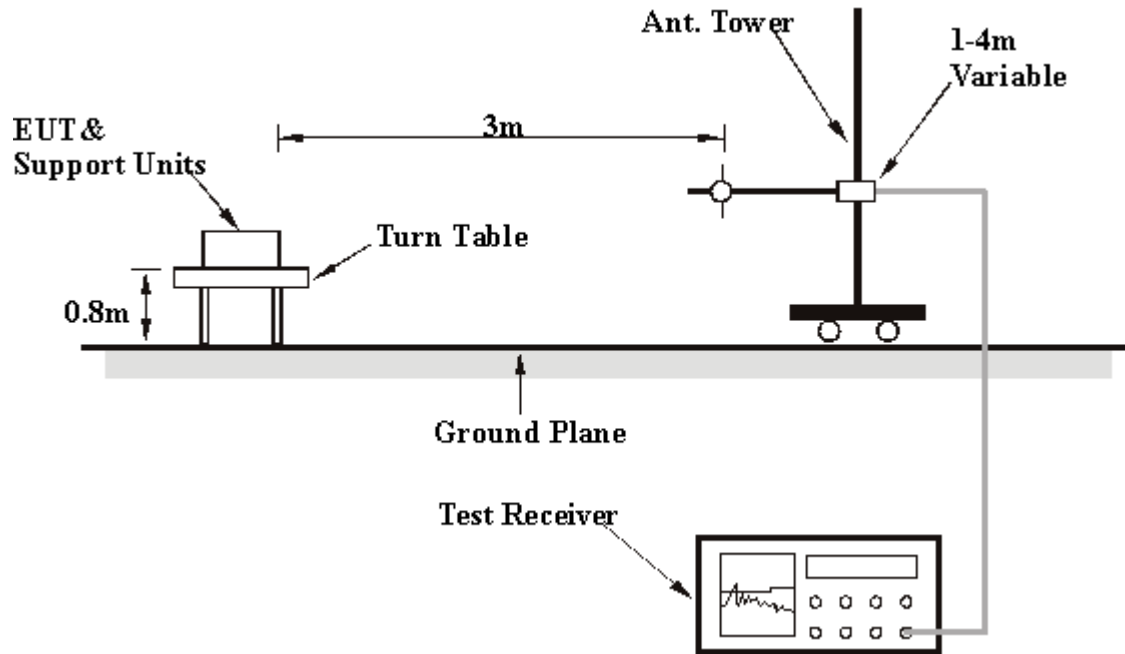
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

### 5.2.4 DEVIATION FROM TEST STANDARD

No deviation



### 5.2.5 TEST SETUP



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

### 5.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



## 5.2.7 TEST RESULTS

### Below 1GHz Worst-Case Data\_with charging cable

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 5	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Match Tsui	<b>TEST MODE</b>	A

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	115.53	30.48 QP	43.50	-13.02	1.50 H	304	18.14	12.34
2	185.51	25.96 QP	43.50	-17.54	1.50 H	289	13.69	12.27
3	249.66	28.41 QP	46.00	-17.59	1.00 H	268	15.33	13.08
4	463.49	29.56 QP	46.00	-16.44	2.00 H	283	11.47	18.09
5	731.74	35.39 QP	46.00	-10.61	1.00 H	241	12.40	22.99
6	867.82	31.24 QP	46.00	-14.76	1.50 H	286	6.77	24.47

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	45.55	33.38 QP	40.00	-6.62	1.50 V	360	18.39	14.99
2	76.65	23.51 QP	40.00	-16.49	1.00 V	235	12.89	10.62
3	109.70	33.29 QP	43.50	-10.21	1.00 V	253	21.55	11.74
4	156.35	26.73 QP	43.50	-16.77	1.00 V	28	12.15	14.58
5	191.34	31.48 QP	43.50	-12.02	1.00 V	73	19.67	11.81
6	465.43	29.45 QP	46.00	-16.55	1.00 V	358	11.33	18.12
7	729.80	29.76 QP	46.00	-16.24	1.50 V	151	6.82	22.94
8	865.87	29.32 QP	46.00	-16.68	1.50 V	202	4.89	24.43

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value

**Below 1GHz Worst-Case Data\_with cradle**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 5	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Match Tsui	<b>TEST MODE</b>	B

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	113.59	32.99 QP	43.50	-10.51	1.50 H	280	20.85	12.14
2	166.07	30.02 QP	43.50	-13.48	1.50 H	271	15.95	14.07
3	249.66	39.95 QP	46.00	-6.05	1.00 H	274	26.87	13.08
4	463.49	30.52 QP	46.00	-15.48	2.00 H	286	12.43	18.09
5	500.42	29.08 QP	46.00	-16.92	2.00 H	37	10.48	18.59
6	597.62	31.20 QP	46.00	-14.80	1.00 H	301	10.36	20.83
7	733.69	37.42 QP	46.00	-8.58	1.00 H	331	14.38	23.03
8	865.87	32.46 QP	46.00	-13.54	1.50 H	283	8.02	24.43
9	898.92	29.22 QP	46.00	-16.78	1.00 H	91	4.14	25.08

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	28.93 QP	40.00	-11.07	1.00 V	334	14.17	14.76
2	109.70	37.11 QP	43.50	-6.39	1.00 V	238	25.37	11.74
3	158.30	32.42 QP	43.50	-11.08	1.00 V	244	17.80	14.62
4	463.49	31.12 QP	46.00	-14.88	1.00 V	343	13.02	18.09
5	733.69	30.43 QP	46.00	-15.57	1.50 V	181	7.39	23.03
6	867.82	29.13 QP	46.00	-16.87	1.00 V	238	4.65	24.47
7	916.41	30.38 QP	46.00	-15.62	1.00 V	166	5.10	25.27

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value


**Below 1GHz Worst-Case Data\_battery mode**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 5	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Match Tsui	<b>TEST MODE</b>	C

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	111.64	34.85 QP	43.50	-8.65	1.50 H	289	22.90	11.94
2	162.18	30.28 QP	43.50	-13.22	1.50 H	298	15.83	14.45
3	249.66	29.67 QP	46.00	-16.33	1.00 H	280	16.60	13.08
4	465.43	30.30 QP	46.00	-15.70	1.50 H	262	12.18	18.12
5	733.69	32.92 QP	46.00	-13.08	1.00 H	328	9.89	23.03
6	865.87	30.73 QP	46.00	-15.27	1.00 H	331	6.30	24.43
7	898.92	29.49 QP	46.00	-16.51	1.00 H	247	4.41	25.08

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	28.93 QP	40.00	-11.07	1.00 V	334	14.17	14.76
2	109.70	39.88 QP	43.50	-3.62	1.00 V	238	28.14	11.74
3	158.30	32.42 QP	43.50	-11.08	1.00 V	244	17.80	14.62
4	463.49	31.12 QP	46.00	-14.88	1.00 V	343	13.02	18.09
5	733.69	30.43 QP	46.00	-15.57	1.50 V	181	7.39	23.03
6	867.82	29.13 QP	46.00	-16.87	1.00 V	238	4.65	24.47
7	916.41	30.38 QP	46.00	-15.62	1.00 V	166	5.10	25.27

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value

**802.11a OFDM modulation**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 40 GHz
<b>CHANNEL</b>	Channel 1	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5725.00	81.22 PK	91.98	-10.76	1.00 H	176	41.17	40.05
1	5725.00	70.34 AV	82.58	-12.24	1.00 H	176	30.30	40.05
2	*5745.00	111.98 PK			1.00 H	176	71.90	40.08
2	*5745.00	102.58 AV			1.00 H	176	62.50	40.08
3	#11490.00	59.15 PK	74.00	-14.85	1.01 H	1	8.97	50.18
3	#11490.00	47.04 AV	54.00	-6.96	1.01 H	1	-3.14	50.18

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5725.00	78.62 PK	89.26	-10.64	1.22 V	111	38.57	40.05
1	5725.00	69.54 AV	80.06	-10.52	1.22 V	111	29.50	40.05
2	*5745.00	109.26 PK			1.22 V	111	69.18	40.08
2	*5745.00	100.06 AV			1.22 V	111	59.98	40.08
3	#11490.00	59.05 PK	74.00	-14.95	1.00 V	360	8.88	50.18
3	#11490.00	46.95 AV	54.00	-7.05	1.00 V	360	-3.23	50.18

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value
  5. "\*" : Fundamental frequency
  6. "#"The radiated frequency falling in the restricted band.
  7. The limit value is defined as per 15.247



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 40 GHz
<b>CHANNEL</b>	Channel 3	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	112.33 PK			1.00 H	162	72.18	40.15
1	*5785.00	102.74 AV			1.00 H	162	62.59	40.15
2	#11570.00	58.68 PK	74.00	-15.32	1.00 H	162	8.56	50.12
2	#11570.00	46.32 AV	54.00	-7.68	1.00 H	162	-3.80	50.12

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5785.00	110.07 PK			1.04 V	140	69.92	40.15
1	*5785.00	100.82 AV			1.04 V	140	60.67	40.15
2	#11570.00	58.66 PK	74.00	-15.34	1.10 V	155	8.54	50.12
2	#11570.00	46.56 AV	54.00	-7.44	1.10 V	155	-3.56	50.12

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value
  5. "\*" : Fundamental frequency
  6. "#"The radiated frequency falling in the restricted band.
  7. The limit value is defined as per 15.247



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 40 GHz
<b>CHANNEL</b>	Channel 5	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>MODULATION TYPE</b>	BPSK	<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 65%RH, 991hPa
<b>TRANSFER RATE</b>	6Mbps	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	110.80 PK			1.11 H	166	70.58	40.22
1	*5825.00	101.23 AV			1.11 H	166	61.01	40.22
2	5850.00	68.95 PK	90.80	-21.85	1.11 H	166	28.69	40.26
2	5850.00	57.69 AV	81.23	-23.54	1.11 H	166	17.43	40.26
3	#11650.00	58.50 PK	74.00	-15.50	1.11 H	166	8.32	50.19
3	#11650.00	46.24 AV	54.00	-7.76	1.11 H	166	-3.94	50.19

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5825.00	107.91 PK			1.40 V	140	67.69	40.22
1	*5825.00	98.97 AV			1.40 V	140	58.75	40.22
2	5850.00	68.16 PK	87.91	-19.75	1.53 V	142	27.90	40.26
2	5850.00	57.45 AV	78.97	-21.52	1.53 V	142	17.19	40.26
3	#11650.00	58.70 PK	74.00	-15.30	1.53 V	142	8.51	50.19
3	#11650.00	46.35 AV	54.00	-7.65	1.53 V	142	-3.83	50.19

- NOTE:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value
  5. "\*" : Fundamental frequency
  6. "#"The radiated frequency falling in the restricted band.
  7. The limit value is defined as per 15.247



### 5.3 6dB BANDWIDTH MEASUREMENT

#### 5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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



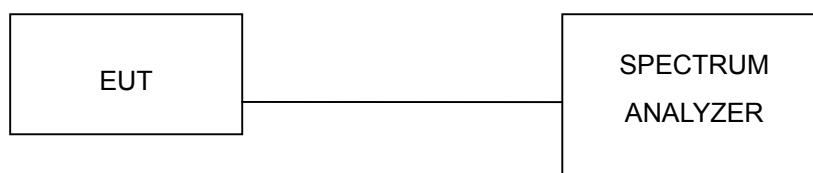
### 5.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 5.3.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.3.5 TEST SETUP



### 5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



### 5.3.7 TEST RESULTS

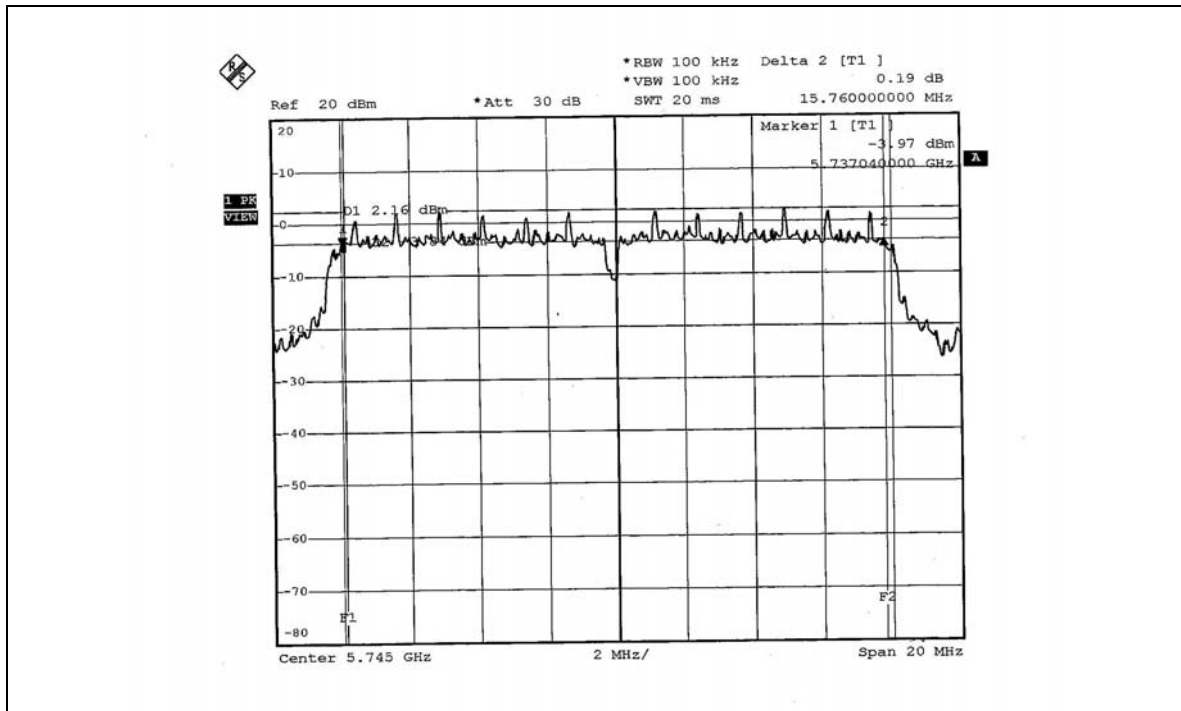
#### 802.11a OFDM modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

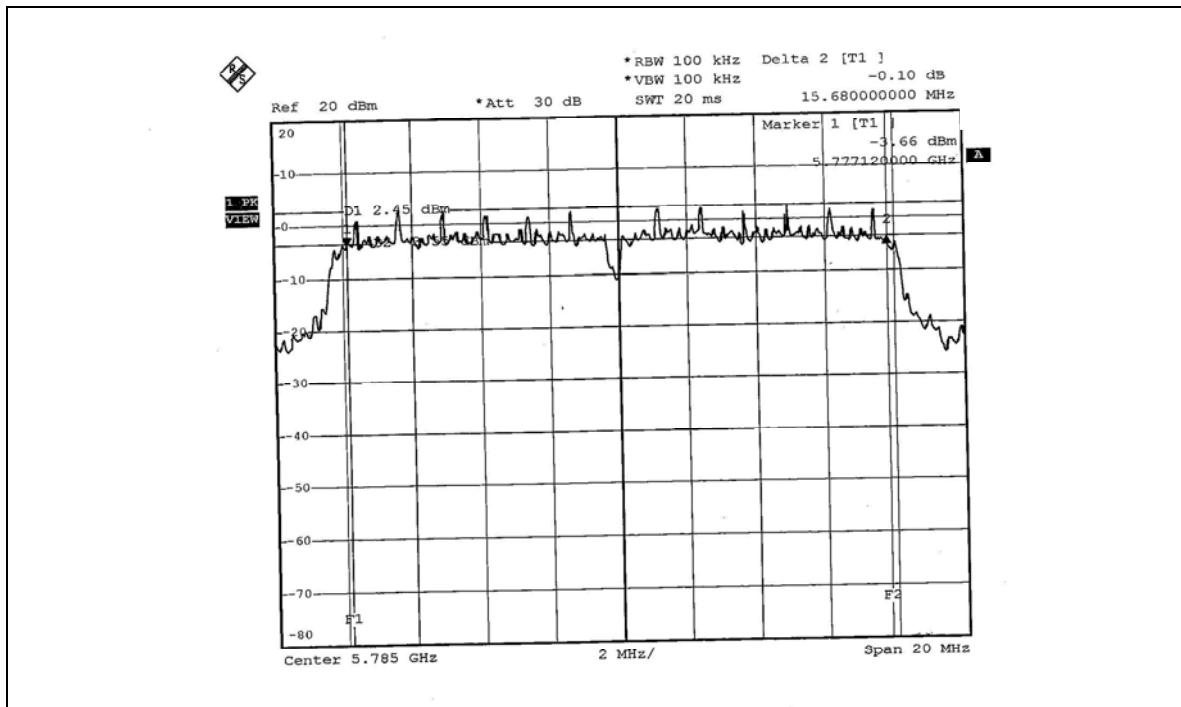
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>6dB BANDWIDTH (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS/FAIL</b>
1	5745	15.76	0.5	PASS
3	5785	15.68	0.5	PASS
5	5825	15.76	0.5	PASS



CH 1

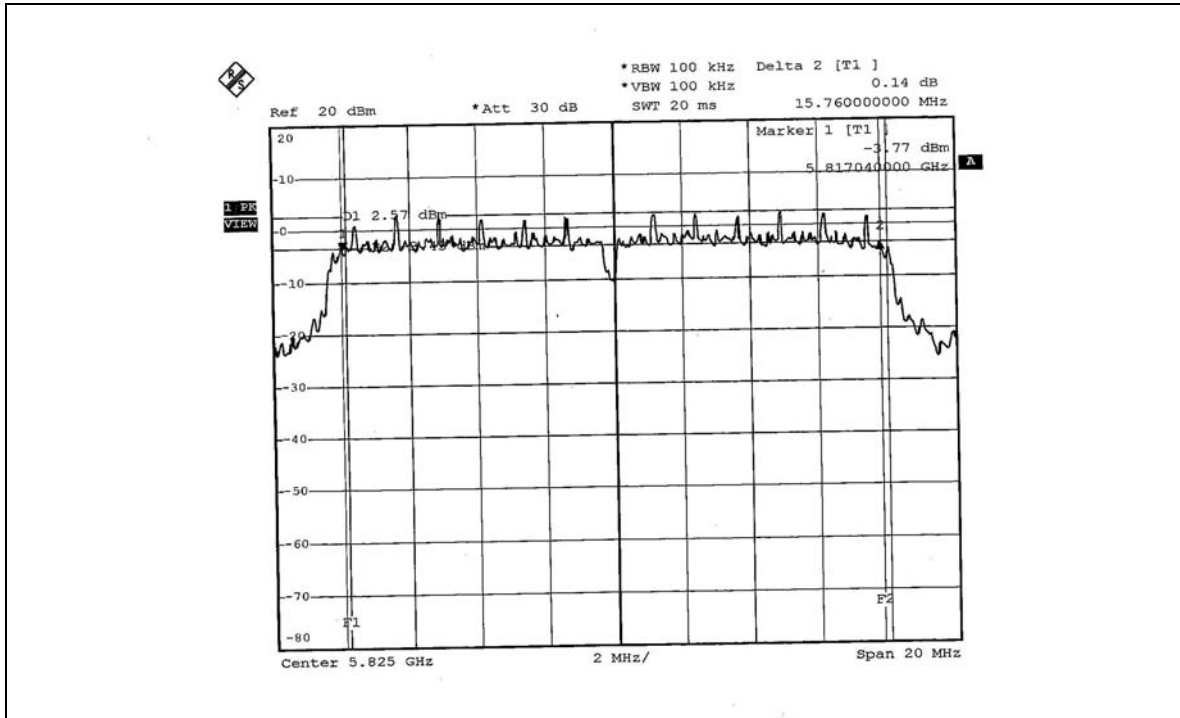


CH 3





CH 5





## 5.4 MAXIMUM PEAK OUTPUT POWER

### 5.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

### 5.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 31, 2005
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Feb. 01, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

**NOTE:**

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

### 5.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator . The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

### 5.4.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.4.5 TEST SETUP



### 5.4.6 EUT OPERATING CONDITIONS

Same as Item 5.3.6



## 5.4.7 TEST RESULTS

### 802.11a OFDM modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	5745	40.179	16.04	30	PASS
3	5785	40.458	16.07	30	PASS
5	5825	40.272	16.05	30	PASS



## 5.5 POWER SPECTRAL DENSITY MEASUREMENT

### 5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 5.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

**NOTES:**

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



### 5.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

### 5.5.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.5.5 TEST SETUP



### 5.5.6 EUT OPERATING CONDITION

Same as Item 5.3.6



## 5.5.7 TEST RESULTS

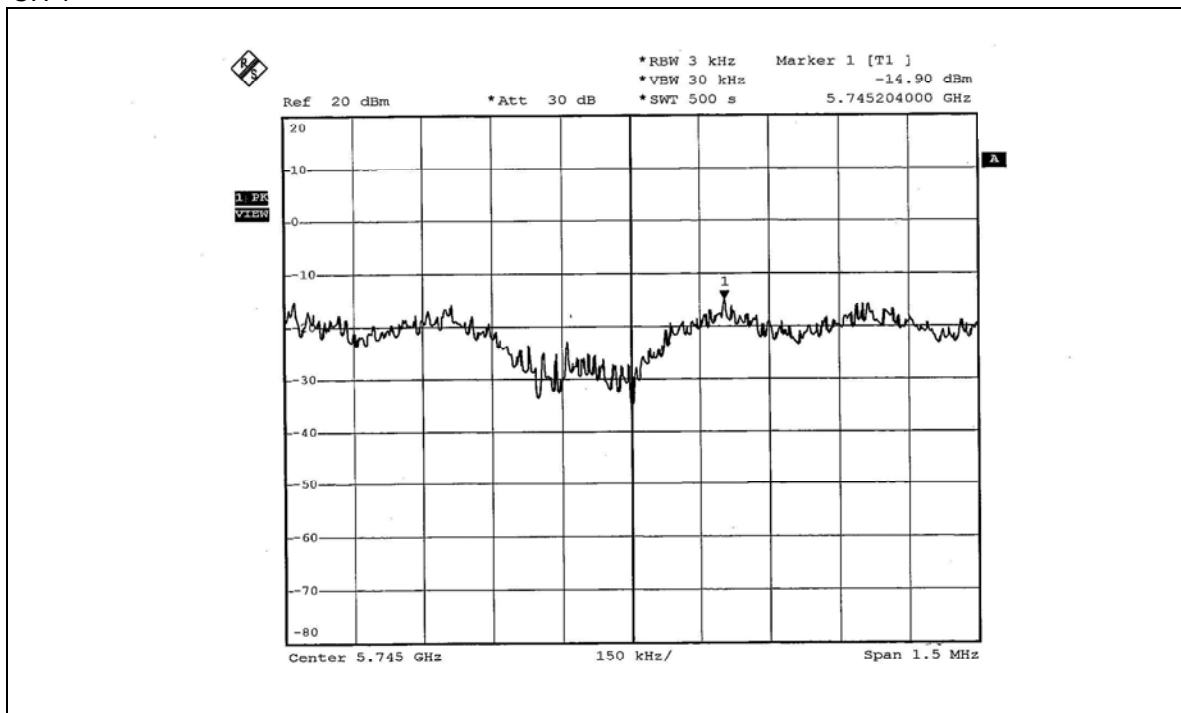
## 802.11a OFDM modulation

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	27deg.C, 63%RH, 991hPa
<b>TESTED BY</b>	Gary Chang		

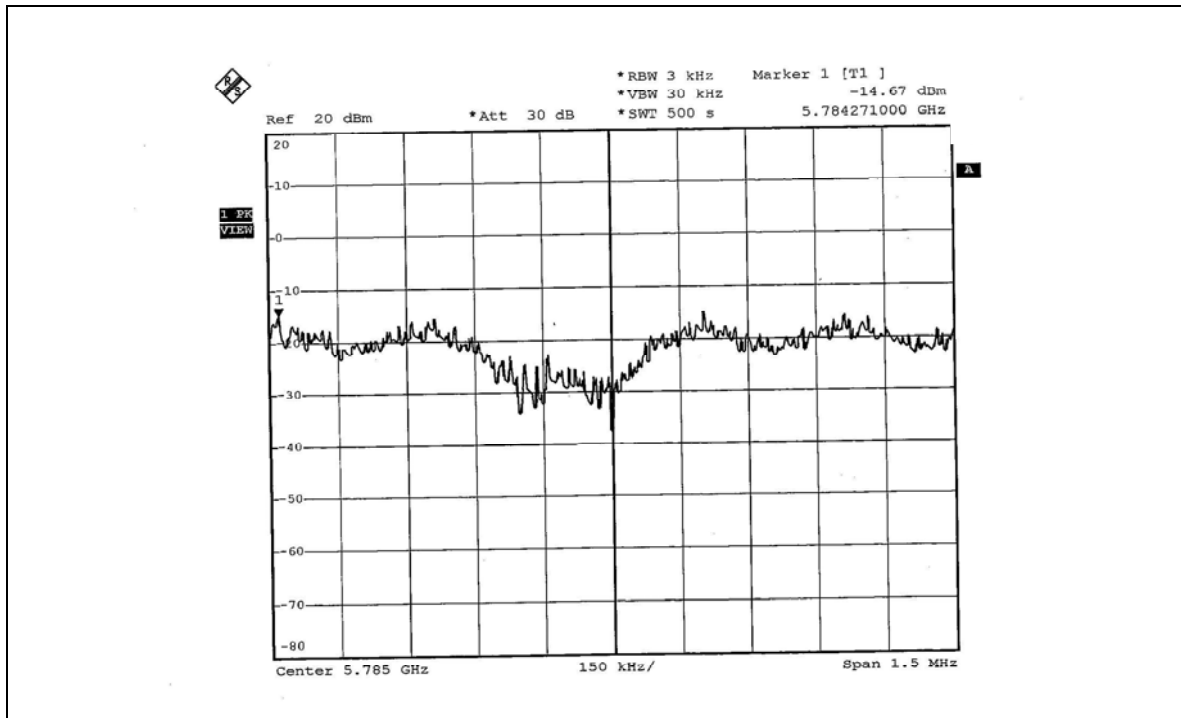
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>RF POWER LEVEL IN 3 kHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	5745	-14.90	8	PASS
3	5785	-14.67	8	PASS
5	5825	-14.49	8	PASS



CH 1

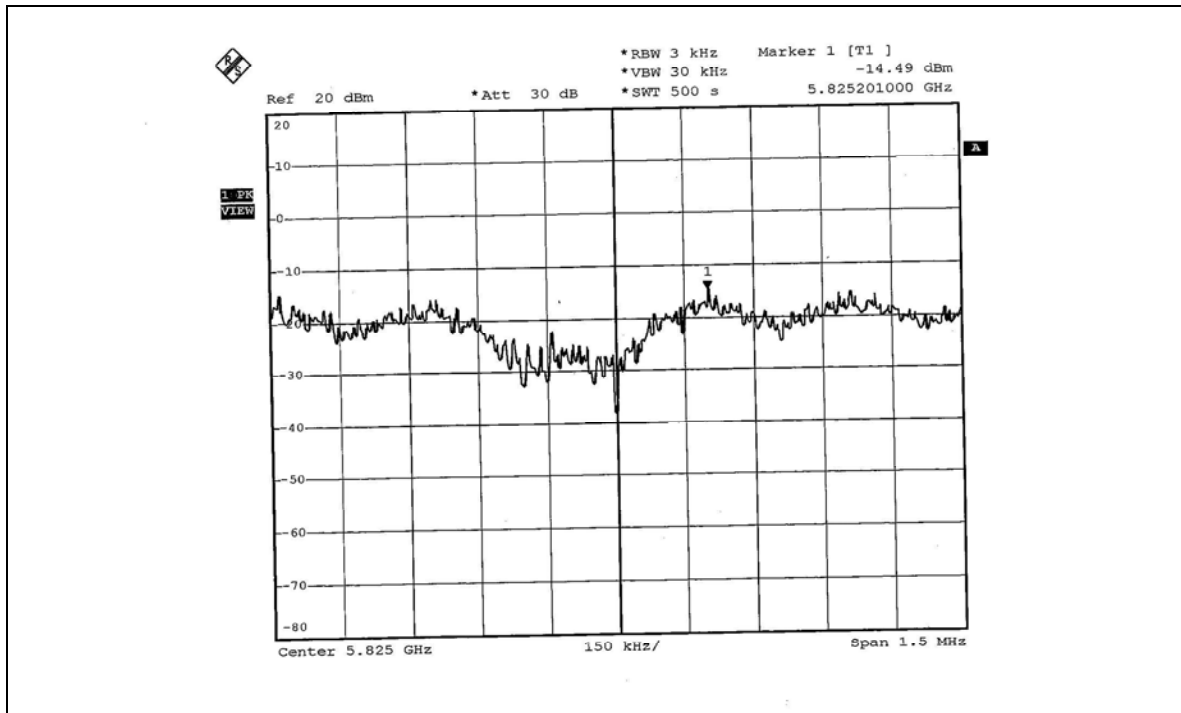


CH 3





CH 5





## 5.6 BAND EDGES MEASUREMENT

### 5.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 5.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

#### NOTES:

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

### 5.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 5.6.4 DEVIATION FROM TEST STANDARD

No deviation

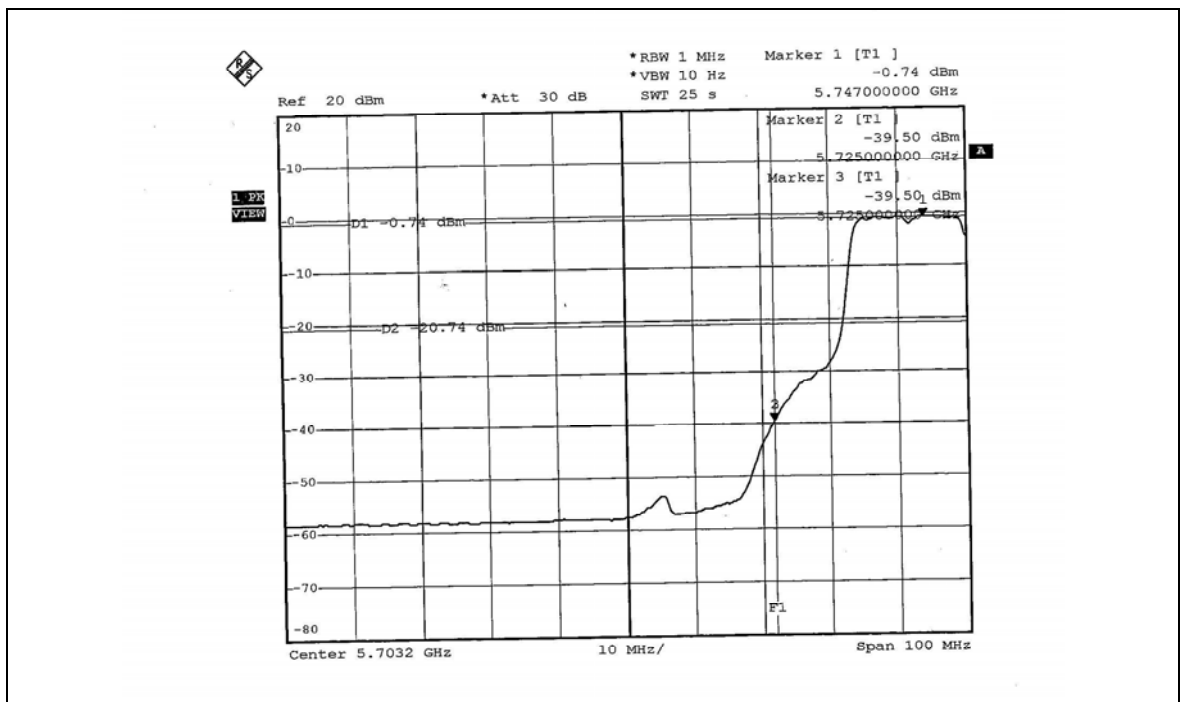
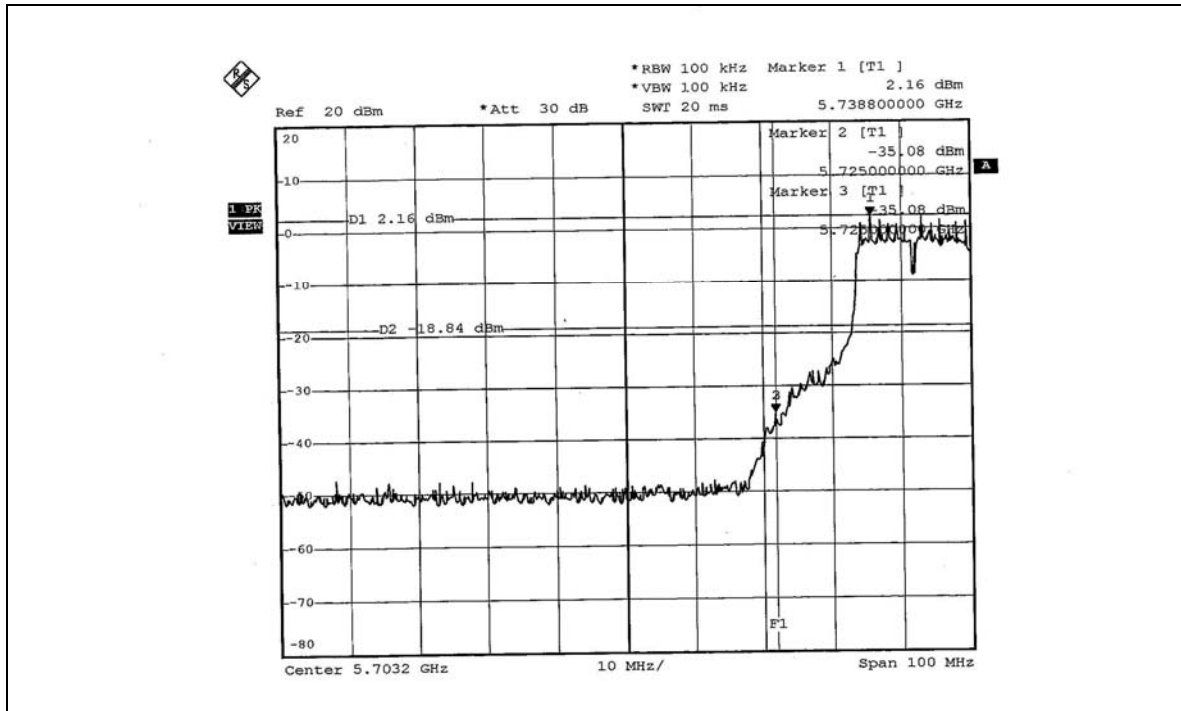


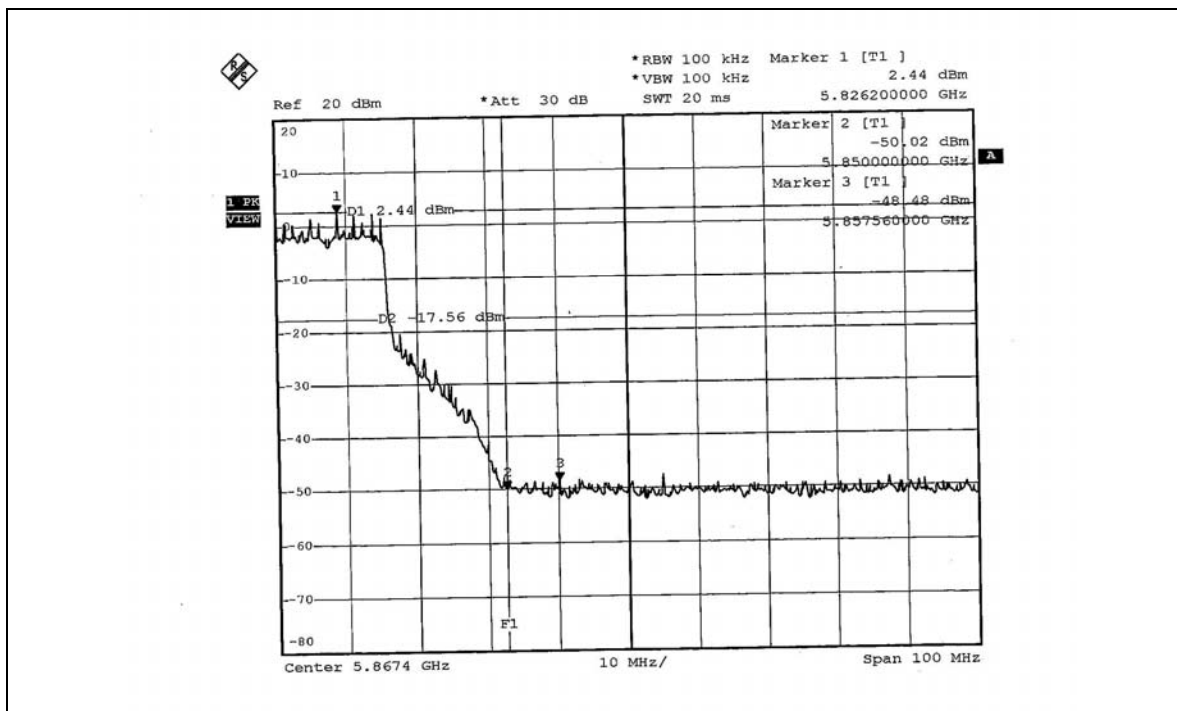
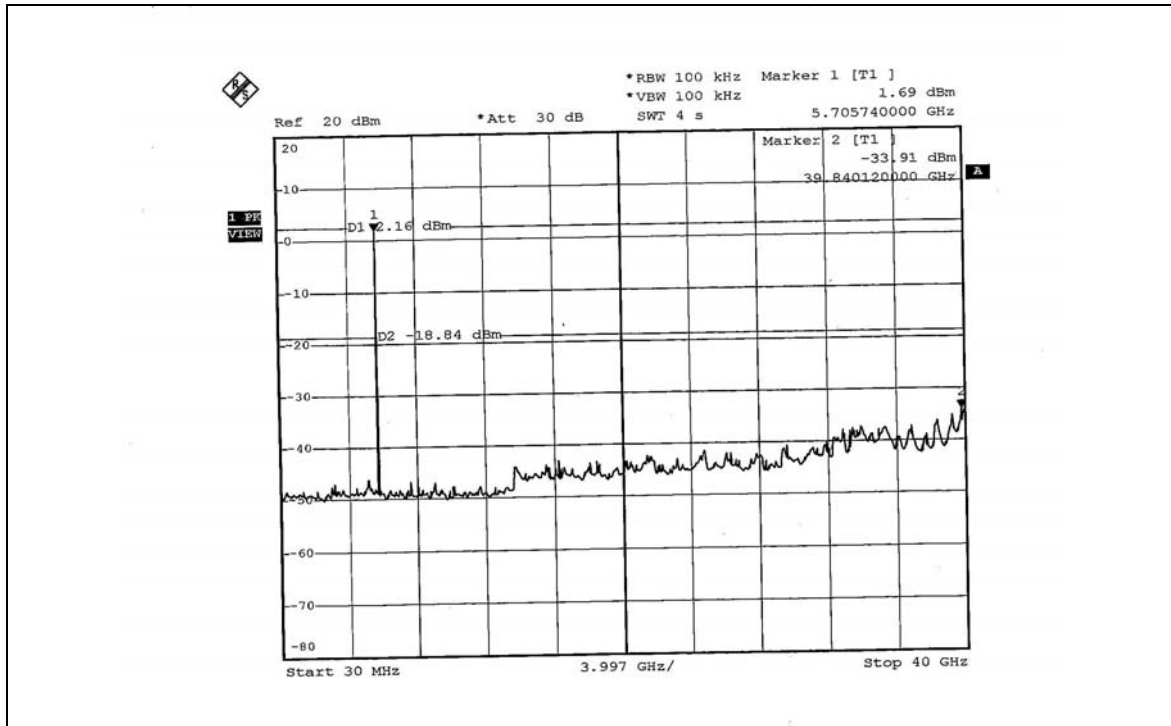
### 5.6.5 EUT OPERATING CONDITION

Same as Item 5.9.6

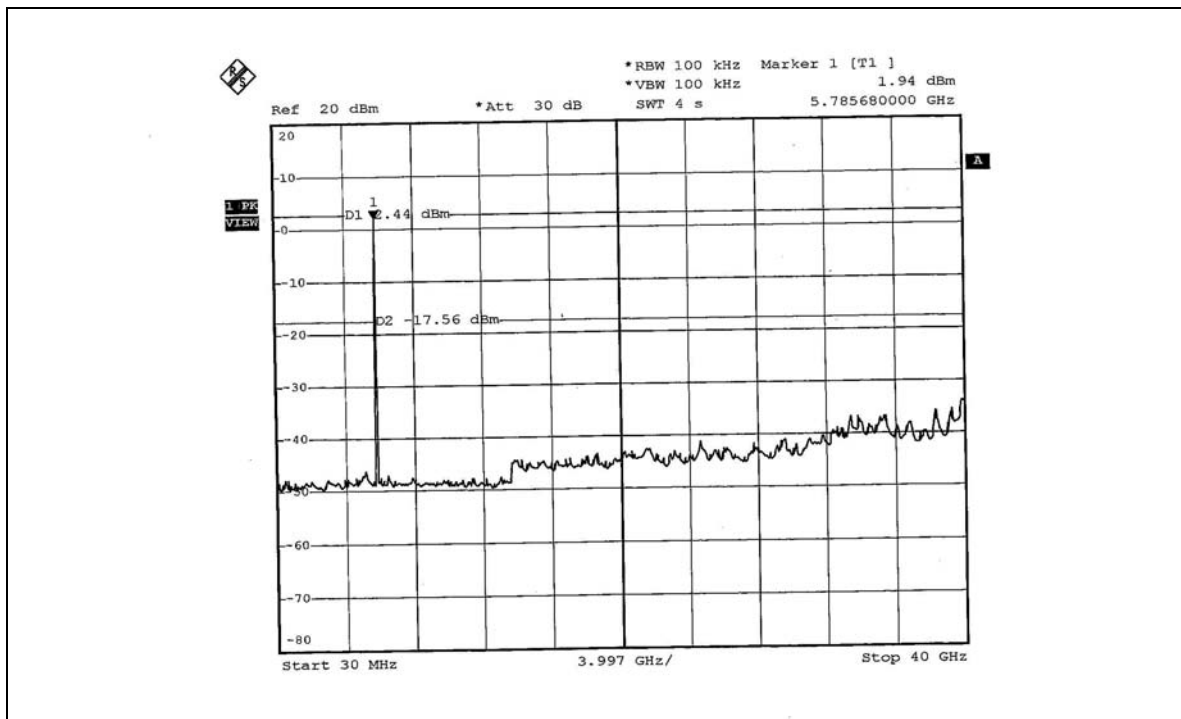
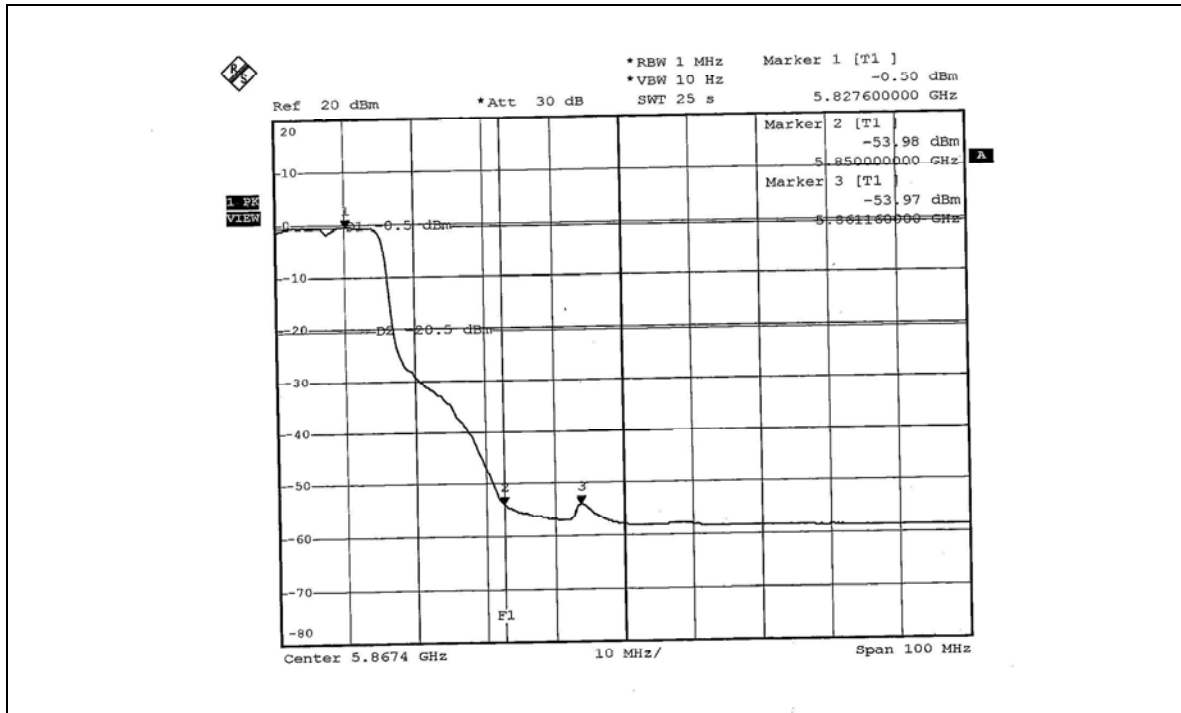
### 5.6.6 TEST RESULTS

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











## **5.7 ANTENNA REQUIREMENT**

### **5.7.1 STANDARD APPLICABLE**

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

And according to FCC 47 CFR Section 15.247(a), 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.

### **5.7.2 ANTENNA CONNECTED CONSTRUCTION**

The antenna used in this product is PIFA antenna with UFL connector. The maximum Gain of the antenna is 2.5dBi.



## 6. TEST TYPES AND RESULTS (FOR BLUETOOTH)

### 6.1.1 CONDUCTED EMISSION MEASUREMENT

#### 6.1.2 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 6.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 06, 2005
RF signal cable Woken	5D-FB	Cable-HyC02-01	Jan. 09, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 20, 2006
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 20, 2006
Software ADT	ADT_Cond_V3	NA	NA

- 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 Shielded Room 3.
  3. The VCCI Site Registration No. is C-2047.



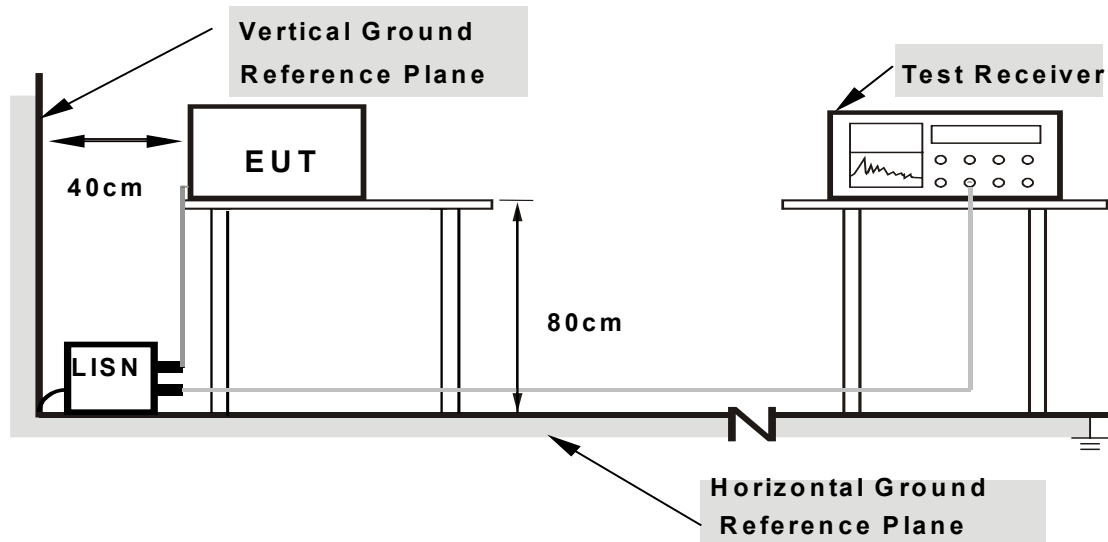
#### 6.1.4 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

#### 6.1.5 DEVIATION FROM TEST STANDARD

No deviation

### 6.1.6 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

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

### 6.1.7 EUT OPERATING CONDITIONS

Same as 4.1.6



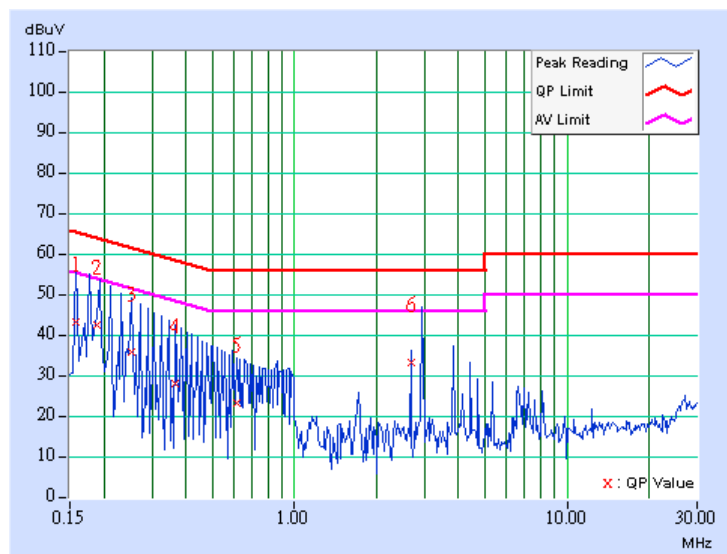
### 6.1.8 TEST RESULTS

#### Conducted Worst-Case Data\_with charging cable

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 0	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.158	0.11	43.03	-	43.14	-	65.58
2	0.188	0.11	42.31	-	42.42	-	64.14	54.14	-21.72	-
3	0.253	0.11	35.66	-	35.77	-	61.66	51.66	-25.89	-
4	0.364	0.12	27.89	-	28.01	-	58.63	48.63	-30.62	-
5	0.612	0.16	23.10	-	23.26	-	56.00	46.00	-32.74	-
6	2.680	0.26	33.03	-	33.29	-	56.00	46.00	-22.71	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

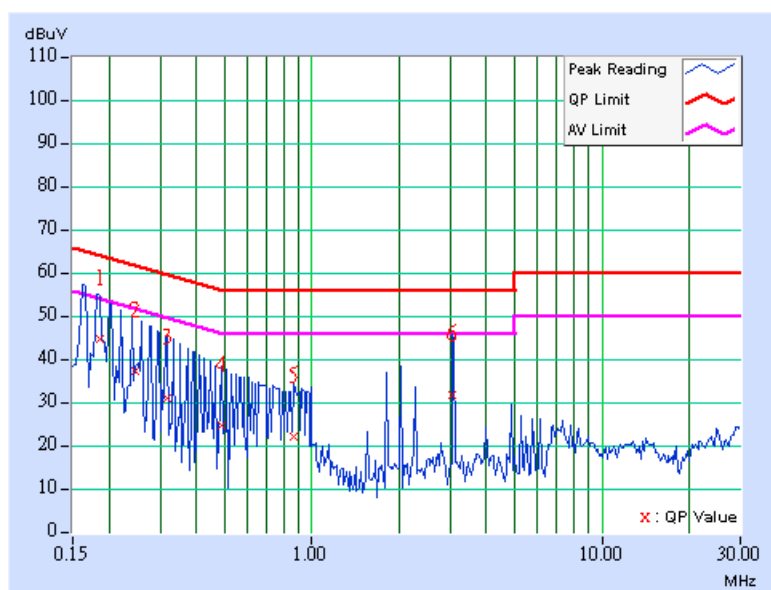




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 0	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.186	0.11	44.38	-	44.49	-	64.22
2	0.246	0.11	37.24	-	37.35	-	61.90	51.90	-24.55	-
3	0.319	0.12	30.74	-	30.86	-	59.72	49.72	-28.87	-
4	0.487	0.14	24.59	-	24.73	-	56.21	46.21	-31.49	-
5	0.861	0.20	21.80	-	22.00	-	56.00	46.00	-34.00	-
6	3.030	0.27	31.71	-	31.98	-	56.00	46.00	-24.02	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

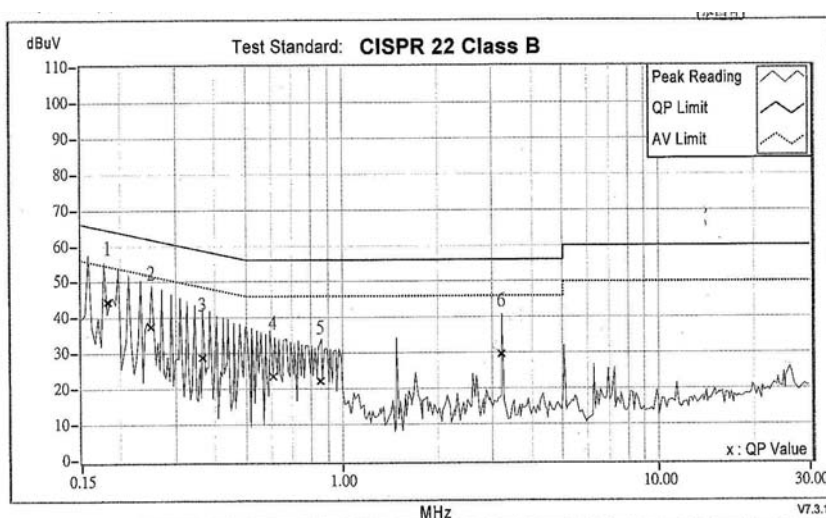




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 39	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.183	0.11	44.18	-	44.29	-	64.36	54.36	-20.08	-
2	0.251	0.11	37.16	-	37.27	-	61.70	51.70	-24.43	-
3	0.365	0.12	28.39	-	28.51	-	58.62	48.62	-30.11	-
4	0.611	0.16	23.34	-	23.50	-	56.00	46.00	-32.50	-
5	0.853	0.20	22.03	-	22.23	-	56.00	46.00	-33.77	-
6	3.212	0.27	29.53	-	29.80	-	56.00	46.00	-26.20	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



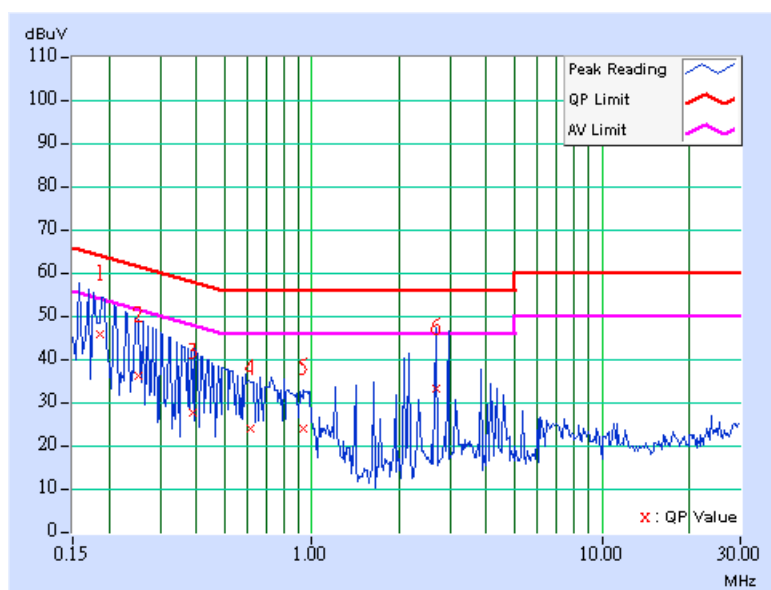




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 39	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.187	0.11	45.52	-	45.63	-	64.18
2	0.254	0.11	36.12	-	36.23	-	61.63	51.63	-25.40	-
3	0.387	0.12	27.44	-	27.56	-	58.14	48.14	-30.58	-
4	0.613	0.16	23.99	-	24.15	-	56.00	46.00	-31.85	-
5	0.931	0.22	23.93	-	24.15	-	56.00	46.00	-31.85	-
6	2.686	0.26	33.09	-	33.35	-	56.00	46.00	-22.65	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

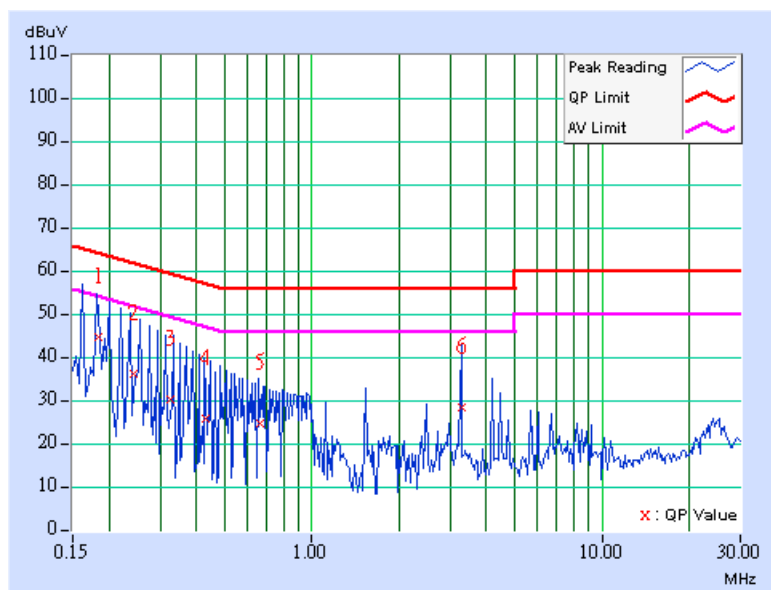




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 78	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.183	0.11	44.52	-	44.63	-	64.33
2	0.244	0.11	36.15	-	36.26	-	61.94	51.94	-25.68	-
3	0.327	0.12	30.23	-	30.35	-	59.53	49.53	-29.18	-
4	0.429	0.13	25.65	-	25.78	-	57.26	47.26	-31.49	-
5	0.667	0.17	24.40	-	24.57	-	56.00	46.00	-31.43	-
6	3.284	0.28	28.28	-	28.56	-	56.00	46.00	-27.44	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

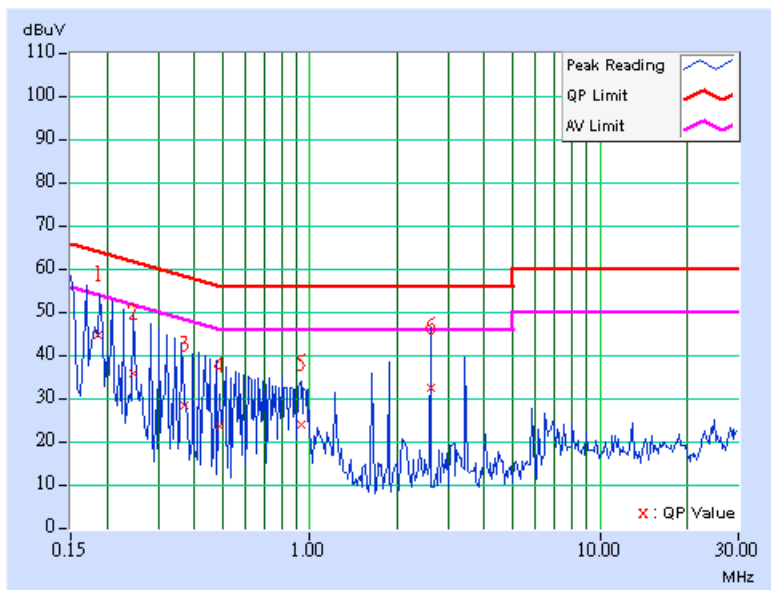




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 78	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.187	0.11	44.70	-	44.81	-	64.15
2	0.246	0.11	35.81	-	35.92	-	61.89	51.89	-25.97	-
3	0.368	0.12	28.43	-	28.55	-	58.54	48.54	-30.00	-
4	0.492	0.14	23.53	-	23.67	-	56.13	46.13	-32.47	-
5	0.937	0.22	23.73	-	23.95	-	56.00	46.00	-32.05	-
6	2.612	0.26	32.48	-	32.74	-	56.00	46.00	-23.26	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



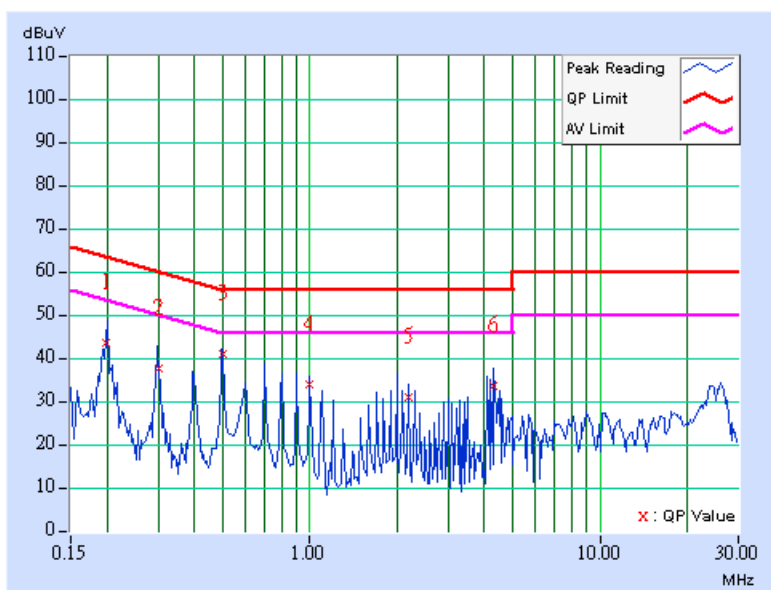


**Conducted Worst-Case Data\_with cradle**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 0	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.198	0.11	43.59	-	43.70	-	63.71
2	0.302	0.12	37.61	-	37.73	-	60.18	50.18	-22.45	-
3	0.500	0.14	40.67	-	40.81	-	56.00	46.00	-15.19	-
4	1.000	0.23	33.84	-	34.07	-	56.00	46.00	-21.93	-
5	2.201	0.25	30.91	-	31.16	-	56.00	46.00	-24.84	-
6	4.292	0.30	33.53	-	33.83	-	56.00	46.00	-22.17	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

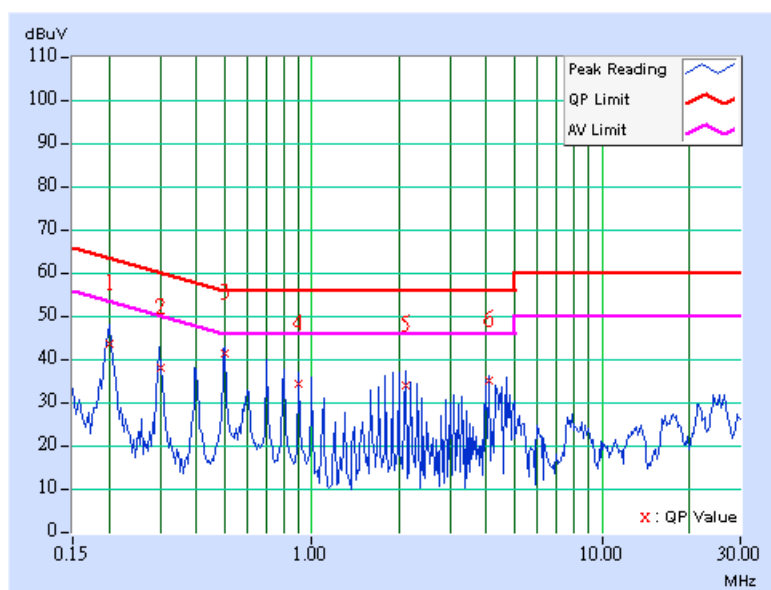




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 0	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	43.49	-	43.60	-	63.56
2	0.302	0.12	37.71	-	37.83	-	60.18	50.18	-22.35	-
3	0.500	0.14	41.09	-	41.23	-	56.00	46.00	-14.77	-
4	0.901	0.21	34.18	-	34.39	-	56.00	46.00	-21.61	-
5	2.100	0.25	33.86	-	34.11	-	56.00	46.00	-21.89	-
6	4.098	0.29	35.06	-	35.35	-	56.00	46.00	-20.65	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

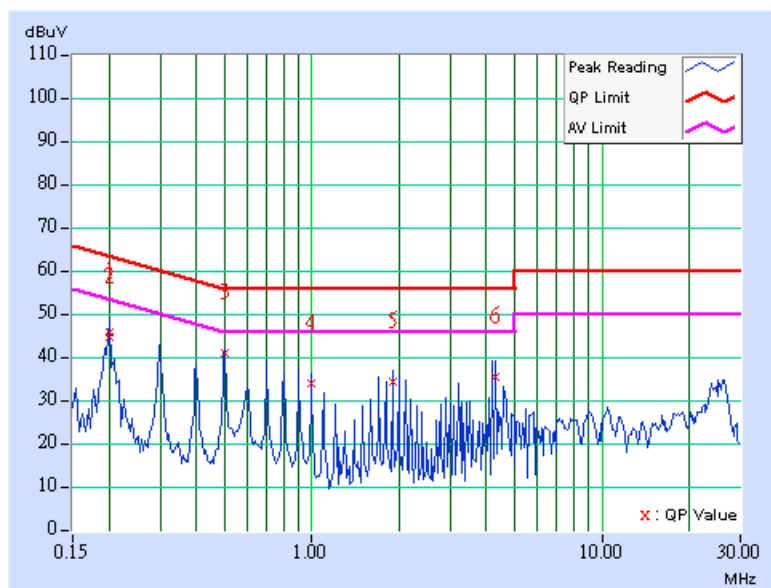




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 39	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.200	0.11	45.45	-	45.56	-	63.61
2	0.202	0.11	44.69	-	44.80	-	63.54	53.54	-18.74	-
3	0.500	0.14	40.68	-	40.82	-	56.00	46.00	-15.18	-
4	0.998	0.23	33.63	-	33.86	-	56.00	46.00	-22.14	-
5	1.898	0.25	34.29	-	34.54	-	56.00	46.00	-21.46	-
6	4.297	0.30	35.36	-	35.66	-	56.00	46.00	-20.34	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

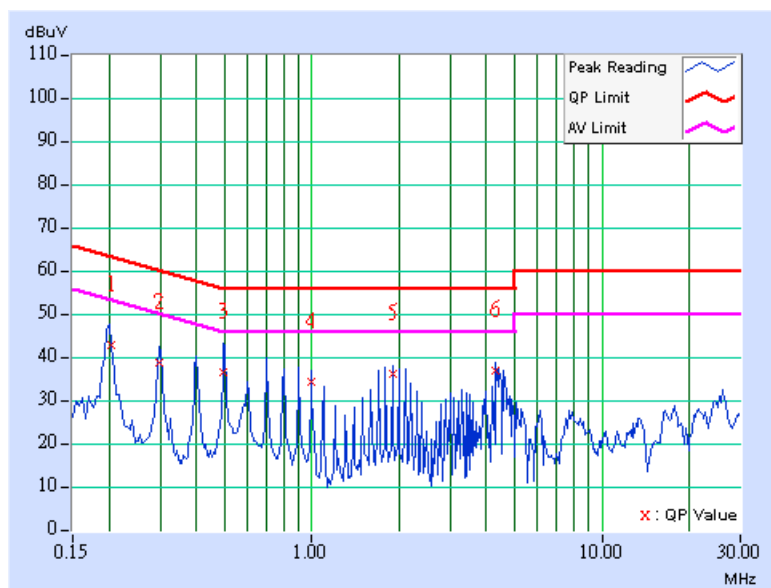




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 39	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.202	0.11	42.65	-	42.76	-	63.52
2	0.300	0.11	38.76	-	38.87	-	60.25	50.25	-21.37	-
3	0.495	0.14	36.47	-	36.61	-	56.09	46.09	-19.48	-
4	1.000	0.23	34.14	-	34.37	-	56.00	46.00	-21.63	-
5	1.898	0.25	35.86	-	36.11	-	56.00	46.00	-19.89	-
6	4.297	0.30	36.88	-	37.18	-	56.00	46.00	-18.82	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

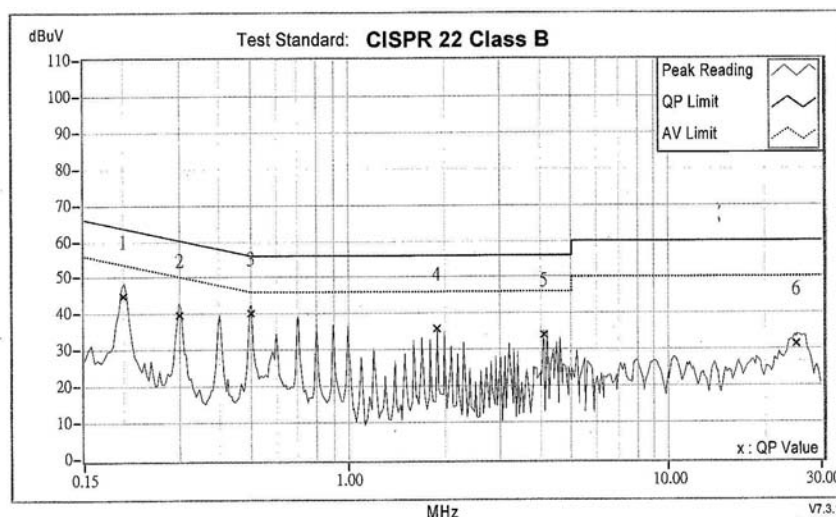




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 1
<b>CHANNEL</b>	Channel 78	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.199	0.11	43.82	-	43.93	-	63.67
2	0.298	0.11	38.39	-	38.50	-	60.29	50.29	-21.78	-
3	0.503	0.14	38.83	-	38.97	-	56.00	46.00	-17.03	-
4	1.897	0.25	34.68	-	34.93	-	56.00	46.00	-21.07	-
5	4.097	0.29	32.84	-	33.13	-	56.00	46.00	-22.87	-
6	25.066	1.32	29.91	-	31.23	-	60.00	50.00	-28.77	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



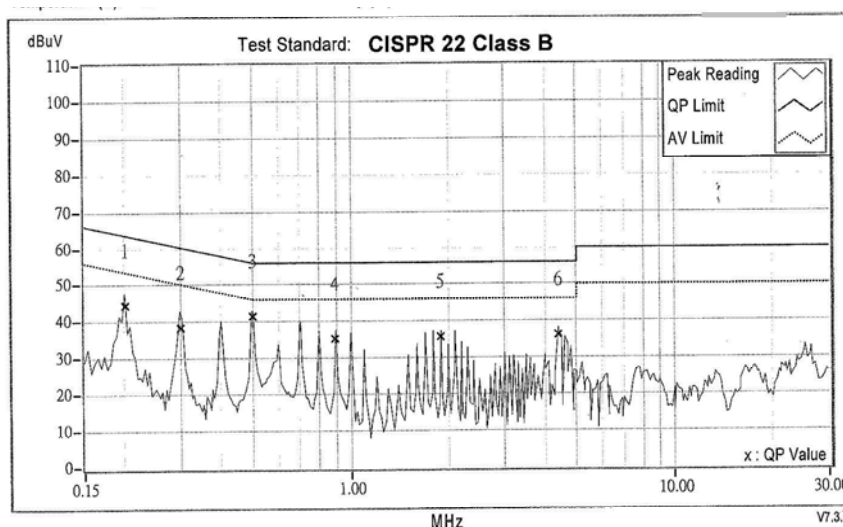




<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>PHASE</b>	Line 2
<b>CHANNEL</b>	Channel 78	<b>6dB BANDWIDTH</b>	9 kHz
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.201	0.11	44.30	-	44.41	-	63.58
2	0.298	0.11	38.16	-	38.27	-	60.29	50.29	-22.01	-
3	0.500	0.14	41.12	-	41.26	-	56.00	46.00	-14.74	-
4	0.899	0.21	35.08	-	35.29	-	56.00	46.00	-20.71	-
5	1.898	0.25	35.42	-	35.67	-	56.00	46.00	-20.33	-
6	4.397	0.31	36.14	-	36.45	-	56.00	46.00	-19.55	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 6.2 RADIATED EMISSION MEASUREMENT

### 6.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



## 6.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Jan. 22, 2006
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Jan. 16, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2006
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Feb. 17, 2006
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Feb. 17, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	NA
26GHz ~ 40GHz Amplifier	AMF-6F-2600400	923362	Mar. 13, 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 Chamber 1.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The IC Site Registration No. is IC4924-2.



### 6.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

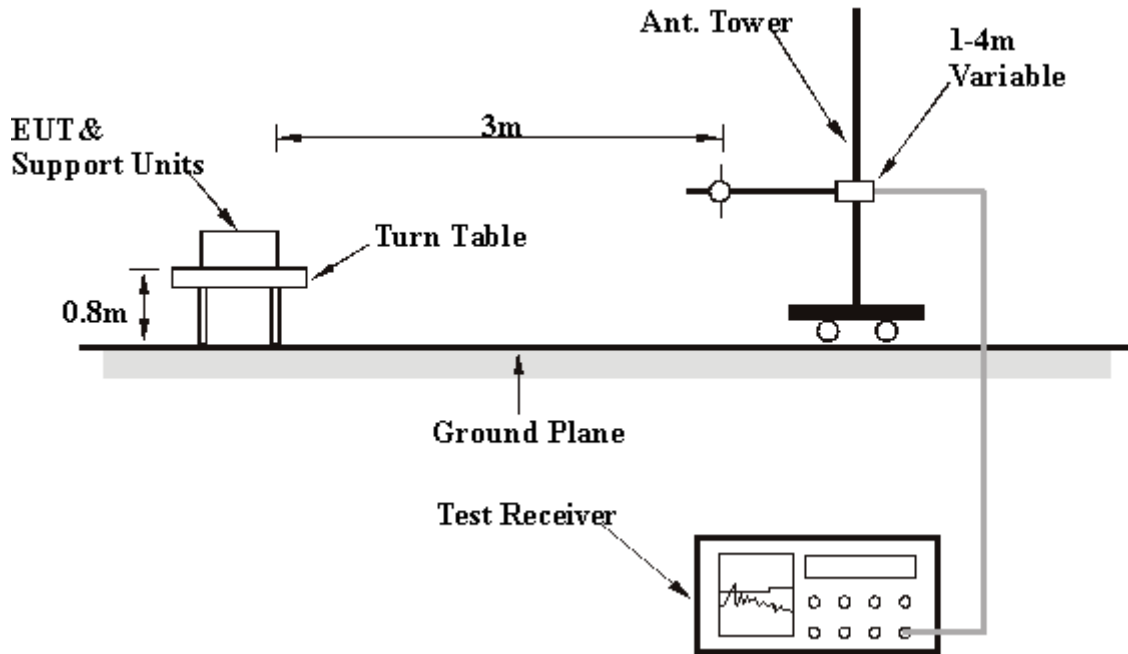
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.

### 6.2.4 DEVIATION FROM TEST STANDARD

No deviation

### 6.2.5 TEST SETUP



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

### 6.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



## 6.2.7 TEST RESULTS

## Radiated Worst Case Data\_with charging cable

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 78	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	A	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.78	26.37 QP	40.00	-13.63	1.00 H	193	11.75	14.62
2	70.82	25.40 QP	40.00	-14.60	1.75 H	142	13.28	12.12
3	113.59	32.59 QP	43.50	-10.91	1.50 H	73	20.45	12.14
4	199.12	29.70 QP	43.50	-13.80	1.00 H	232	18.50	11.20
5	249.66	29.16 QP	46.00	-16.84	1.00 H	52	16.08	13.08
6	463.49	30.52 QP	46.00	-15.48	1.75 H	85	12.43	18.09
7	519.86	30.75 QP	46.00	-15.25	1.50 H	55	11.76	18.99
8	733.69	32.18 QP	46.00	-13.82	1.00 H	34	9.15	23.03
9	861.98	33.03 QP	46.00	-12.97	1.25 H	106	8.67	24.36
10	916.41	31.57 QP	46.00	-14.43	2.00 H	52	6.30	25.27

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.83	33.41 QP	40.00	-6.59	1.00 V	205	19.09	14.32
2	68.88	33.04 QP	40.00	-6.96	1.25 V	202	20.58	12.46
3	113.59	34.67 QP	43.50	-8.83	1.00 V	360	22.53	12.14
4	162.18	30.50 QP	43.50	-13.00	1.00 V	142	16.05	14.45
5	315.75	27.09 QP	46.00	-18.91	1.25 V	202	12.41	14.68
6	463.49	28.68 QP	46.00	-17.32	1.00 V	172	10.59	18.09
7	624.83	26.75 QP	46.00	-19.25	1.50 V	148	5.51	21.24
8	733.69	34.18 QP	46.00	-11.82	1.50 V	13	11.15	23.03
9	865.87	33.19 QP	46.00	-12.81	1.25 V	25	8.76	24.43
10	916.41	32.30 QP	46.00	-13.70	1.25 V	247	7.03	25.27

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



## Radiated Worst Case Data\_with cradle

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 78	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	B	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

## ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	115.53	36.84 QP	43.50	-6.66	1.50 H	295	24.50	12.34
2	166.07	29.31 QP	43.50	-14.19	2.00 H	82	15.24	14.07
3	199.12	33.78 QP	43.50	-9.72	2.00 H	61	22.58	11.20
4	249.66	36.96 QP	46.00	-9.04	1.00 H	250	23.88	13.08
5	374.07	27.01 QP	46.00	-18.99	1.00 H	328	10.98	16.03
6	463.49	29.25 QP	46.00	-16.75	2.00 H	220	11.16	18.09
7	572.34	30.45 QP	46.00	-15.55	1.50 H	1	10.27	20.18
8	733.69	37.13 QP	46.00	-8.87	1.00 H	241	14.09	23.03
9	865.87	31.11 QP	46.00	-14.89	1.00 H	97	6.68	24.43
10	898.92	34.45 QP	46.00	-11.55	2.00 H	298	9.37	25.08

## ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.78	30.20 QP	40.00	-9.80	1.00 V	157	15.58	14.62
2	117.47	37.38 QP	43.50	-6.12	1.00 V	223	24.84	12.54
3	199.12	31.19 QP	43.50	-12.31	1.00 V	169	19.99	11.20
4	249.66	37.20 QP	46.00	-8.80	1.50 V	322	24.12	13.08
5	457.66	33.70 QP	46.00	-12.30	1.00 V	349	15.68	18.01
6	500.42	32.40 QP	46.00	-13.60	1.00 V	319	13.80	18.59
7	572.34	33.20 QP	46.00	-12.80	1.00 V	349	13.02	20.18
8	729.80	34.43 QP	46.00	-11.57	2.00 V	202	11.49	22.94
9	865.87	32.28 QP	46.00	-13.72	2.00 V	136	7.84	24.43
10	916.41	31.72 QP	46.00	-14.28	1.50 V	127	6.45	25.27

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

**Radiated Worst Case Data\_battery mode**

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>CHANNEL</b>	Channel 78	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 65%RH, 991hPa
<b>TEST MODE</b>	C	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>TESTED BY</b>	Jay Hsu		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	115.53	30.98 QP	43.50	-12.52	1.50 H	124	18.64	12.34
2	154.41	27.05 QP	43.50	-16.45	1.00 H	67	12.51	14.53
3	187.45	30.73 QP	43.50	-12.77	1.50 H	286	18.61	12.12
4	288.54	24.79 QP	46.00	-21.21	1.00 H	235	10.62	14.17
5	463.49	27.95 QP	46.00	-18.05	1.50 H	268	9.86	18.09
6	595.67	26.14 QP	46.00	-19.86	1.50 H	130	5.36	20.78
7	665.65	28.14 QP	46.00	-17.86	1.50 H	28	6.35	21.79
8	729.80	32.09 QP	46.00	-13.91	1.00 H	229	9.15	22.94
9	867.82	31.38 QP	46.00	-14.62	1.00 H	328	6.91	24.47
10	916.41	29.80 QP	46.00	-16.20	2.50 H	61	4.53	25.27

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.49	26.99 QP	40.00	-13.01	1.00 V	349	12.22	14.76
2	111.64	37.32 QP	43.50	-6.18	1.00 V	217	25.38	11.94
3	169.96	28.27 QP	43.50	-15.23	1.00 V	226	14.58	13.69
4	519.86	31.45 QP	46.00	-14.55	1.00 V	40	12.46	18.99
5	733.69	32.05 QP	46.00	-13.95	1.50 V	25	9.01	23.03
6	863.93	33.56 QP	46.00	-12.44	1.00 V	253	9.16	24.40
7	916.41	32.35 QP	46.00	-13.65	1.00 V	73	7.08	25.27

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 0	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>MODULATION TYPE</b>	GFSK	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 63%RH, 991hPa	<b>TESTED BY</b>	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	34.67 PK	74.00	-39.33	1.14 H	341	4.07	30.61
2	*2402.00	92.67 PK			1.14 H	341	62.02	30.65
2	*2402.00	62.67 AV			1.14 H	341	32.02	30.65
3	4804.00	48.97 PK	74.00	-25.03	1.04 H	172	13.13	35.84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	30.26 PK	74.00	-43.74	1.00 V	138	-0.34	30.61
2	*2402.00	88.26 PK			1.00 V	138	57.61	30.65
2	*2402.00	58.26 AV			1.00 V	138	27.61	30.65
3	4804.00	48.83 PK	74.00	-25.17	1.00 V	221	12.99	35.84

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 \* 5 per 296.25 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30$  dB.
  6. Average value = peak reading  $-20\log(\text{duty cycle})$ .



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 39	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>MODULATION TYPE</b>	GFSK	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 63%RH, 991hPa	<b>TESTED BY</b>	Long Chen

<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2441.00	91.86 PK			1.00 H	354	61.08	30.78
1	*2441.00	61.86 AV			1.00 H	354	31.08	30.78
2	4882.00	49.30 PK	74.00	-24.70	1.00 H	18	13.25	36.05

<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2441.00	87.68 PK			1.06 V	135	56.90	30.78
1	*2441.00	57.68 AV			1.06 V	135	26.90	30.78
2	4882.00	48.69 PK	74.00	-25.31	1.09 V	253	12.64	36.05

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 \* 5 per 296.25 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30$  dB.
  6. Average value = peak reading  $-20\log(\text{duty cycle})$ .



<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MEASUREMENT DETAIL</b>	
<b>MODEL</b>	MC7094	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>CHANNEL</b>	Channel 78	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>MODULATION TYPE</b>	GFSK	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 63%RH, 991hPa	<b>TESTED BY</b>	Long Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	93.06 PK			1.15 H	2	62.15	30.91
1	*2480.00	63.06 AV			1.15 H	2	32.15	30.91
2	2483.50	35.06 PK	74.00	-38.94	1.15 H	2	4.14	30.92
3	4960.00	48.96 PK	74.00	-25.04	1.14 H	76	12.68	36.28

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	88.69 PK			1.00 V	146	57.78	30.91
1	*2480.00	58.69 AV			1.00 V	146	27.78	30.91
2	2483.50	30.69 PK	74.00	-43.31	1.00 V	146	-0.23	30.92
3	4960.00	47.83 PK	74.00	-26.17	1.53 V	280	11.55	36.28

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625 \* 5 per 296.25 ms per channel. Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30$  dB.
  6. Average value = peak reading  $-20\log(\text{duty cycle})$ .



### 6.3 NUMBER OF HOPPING FREQUENCY USED

#### 6.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

#### 6.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

#### 6.3.3 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

#### 6.3.4 DEVIATION FROM TEST STANDARD

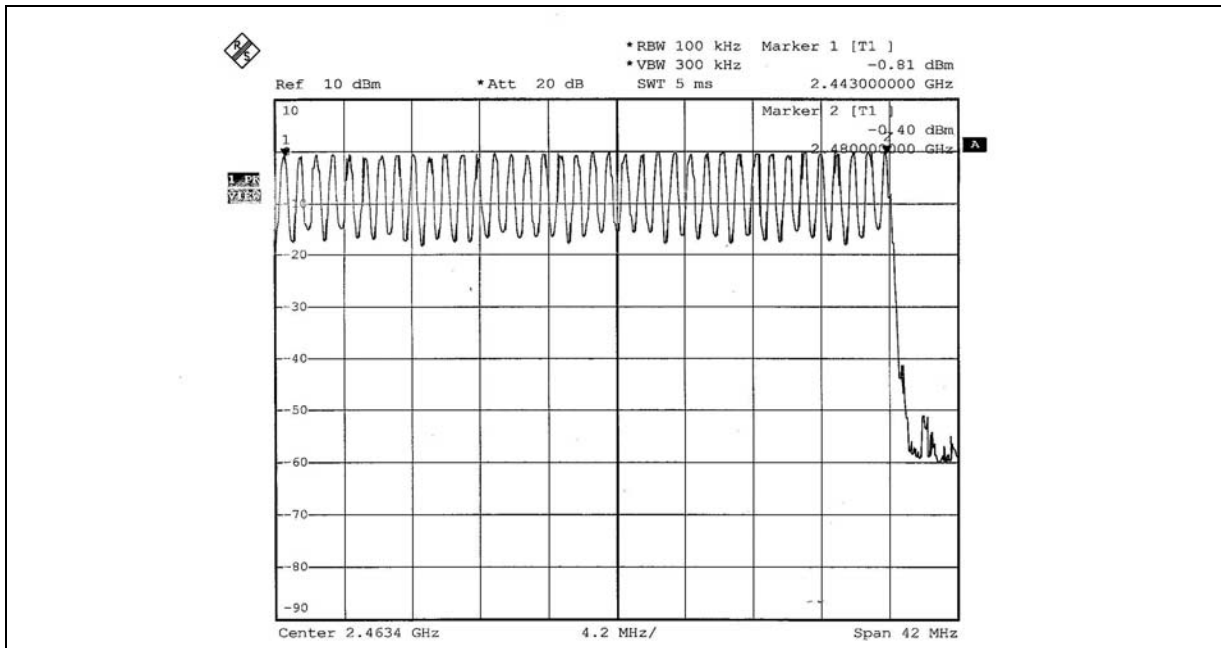
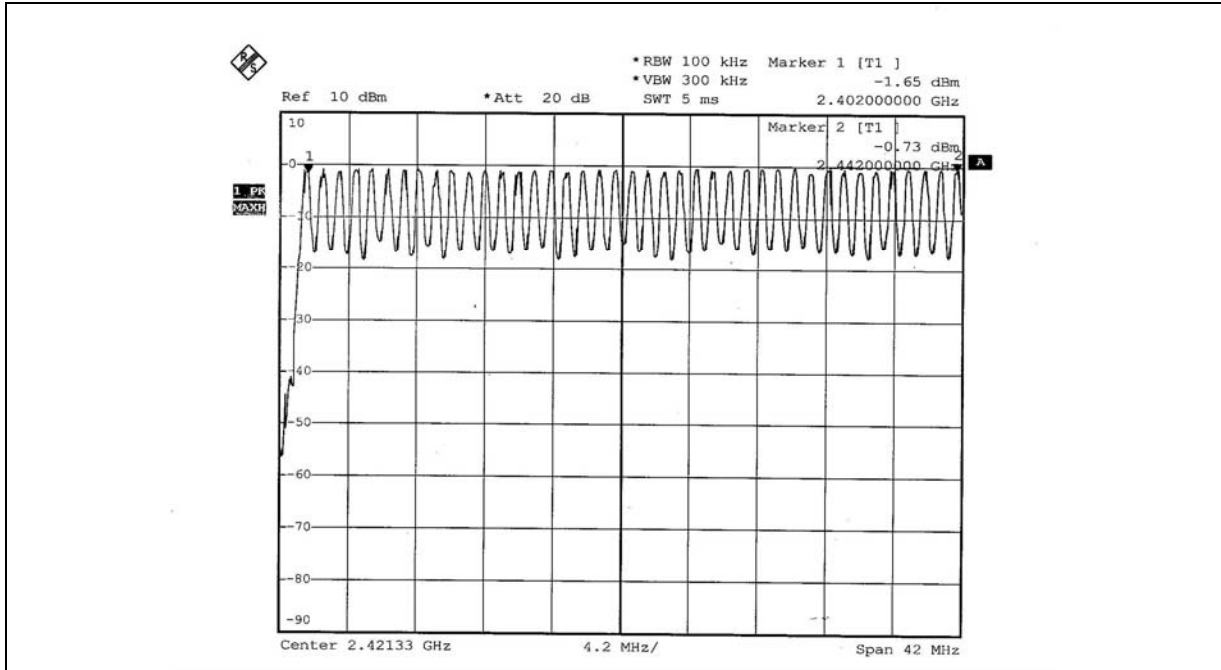
No deviation.

#### 6.3.5 TEST SETUP



#### 6.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.





## 6.4 DWELL TIME ON EACH CHANNEL

### 6.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 6.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

### 6.4.3 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

### 6.4.4 DEVIATION FROM TEST STANDARD

No deviation.

## 6.4.5 TEST SETUP



## 6.4.6 TEST RESULTS

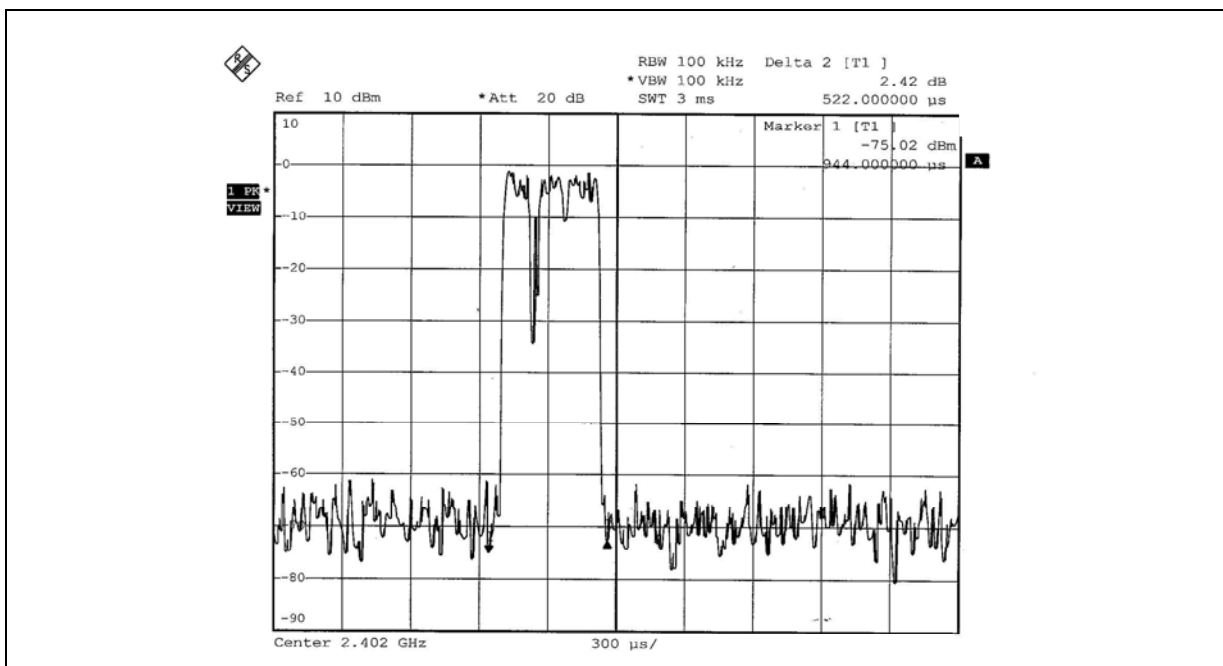
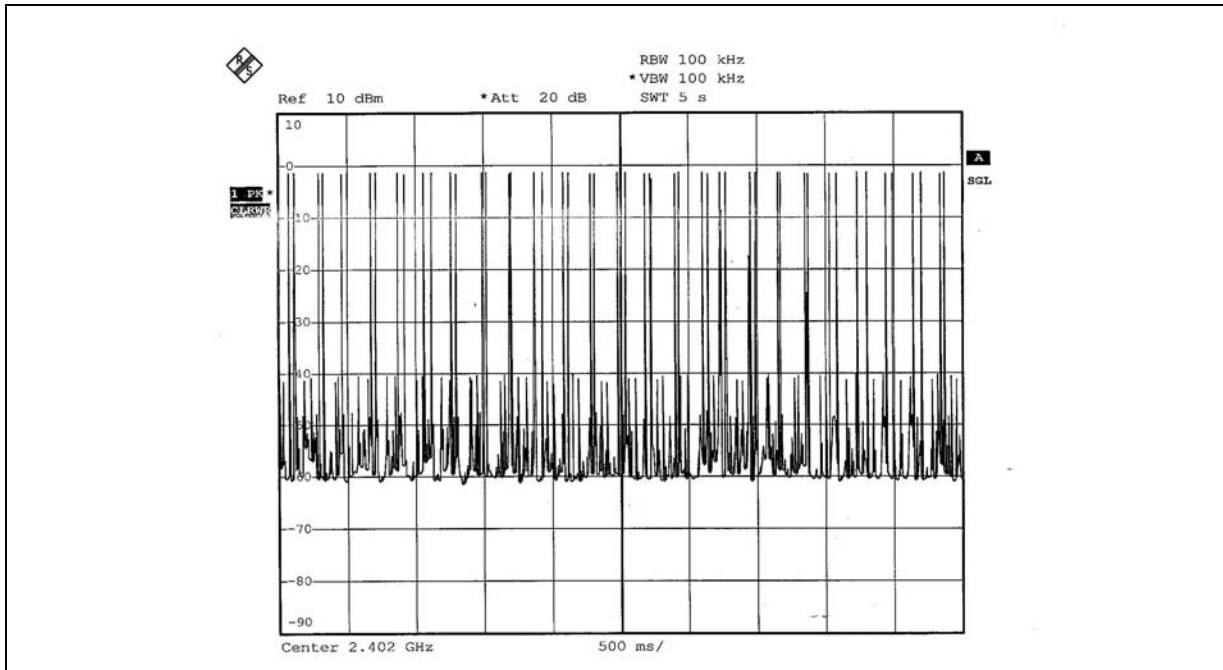
MODE	NUMBER OF TRANSMISSION IN A 31.6 (79HOPPING * 0.4)	LENGTH OF TRANSMISSION TIME (msec)	RESULT (msec)	LIMIT (msec)
DH1	50 (times / 5 sec) * 6.32 = 316.00 times	0.522	164.95	400
DH3	26 (times / 5 sec) * 6.32 = 164.32 times	1.740	285.92	400
DH5	17 (times / 5 sec) * 6.32 = 107.44 times	3.000	322.32	400

**NOTE:** Test plots of the transmitting time slot are shown on next 3 pages.



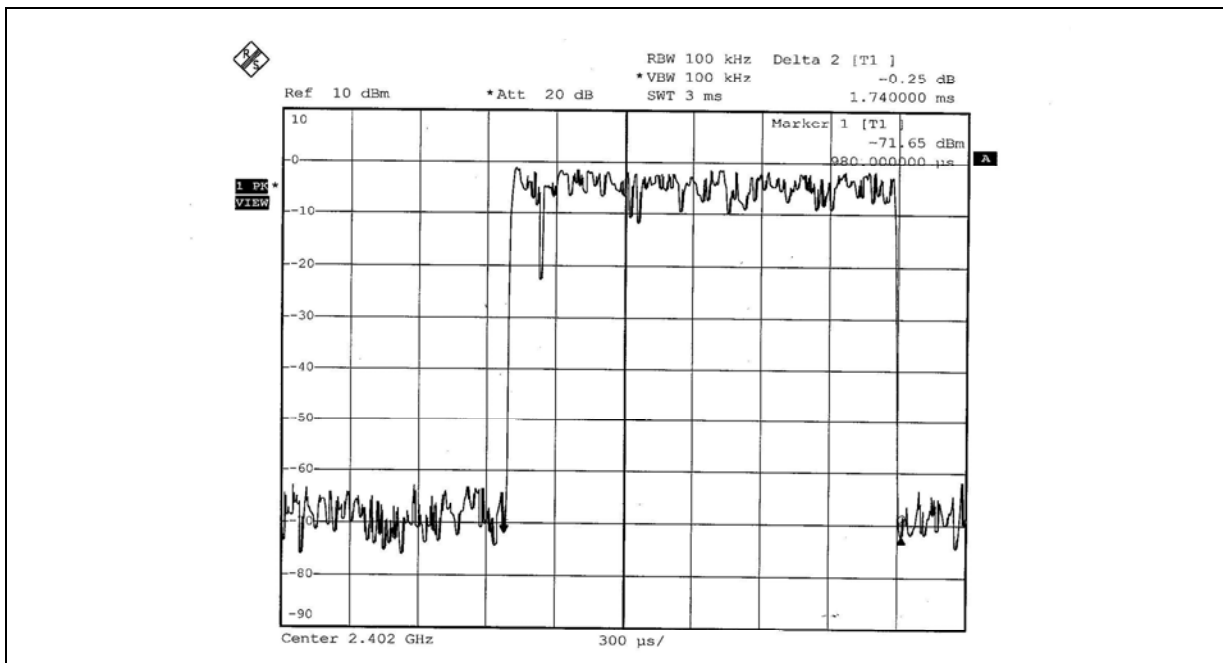
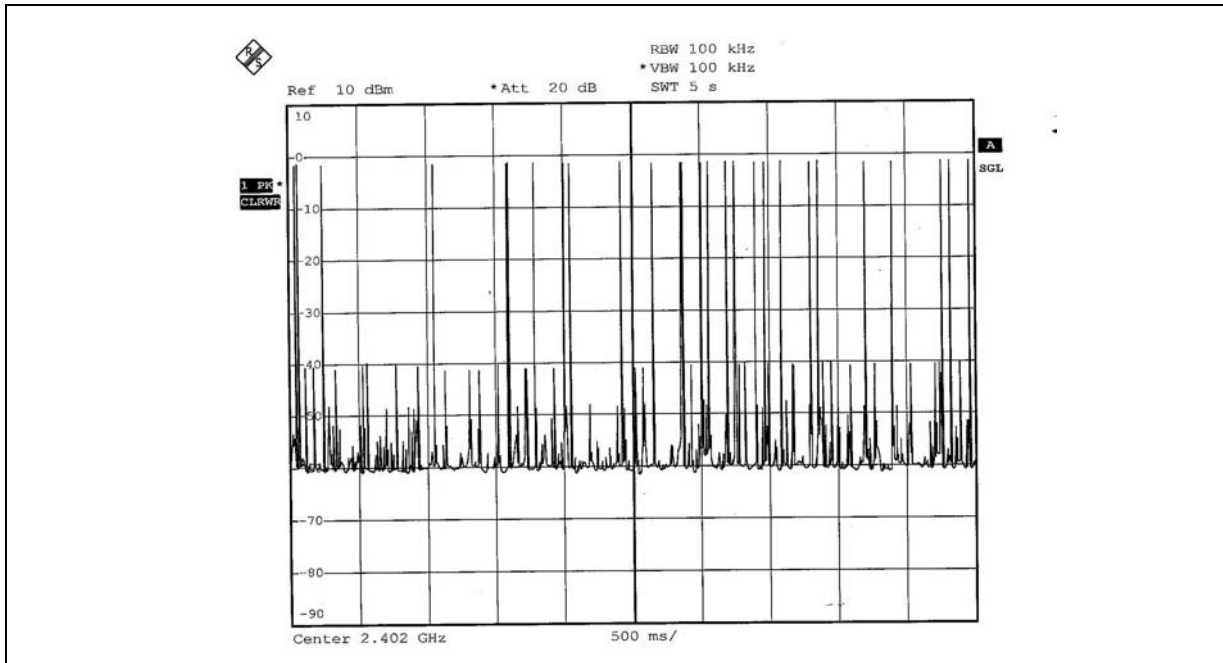


DH1



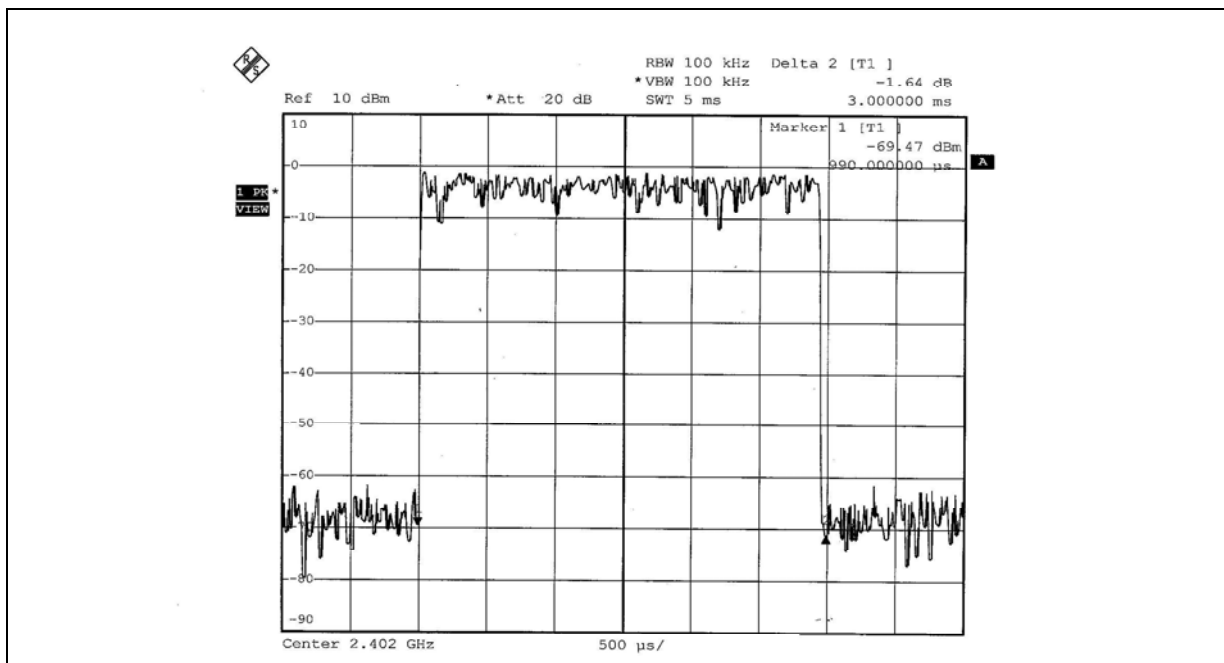
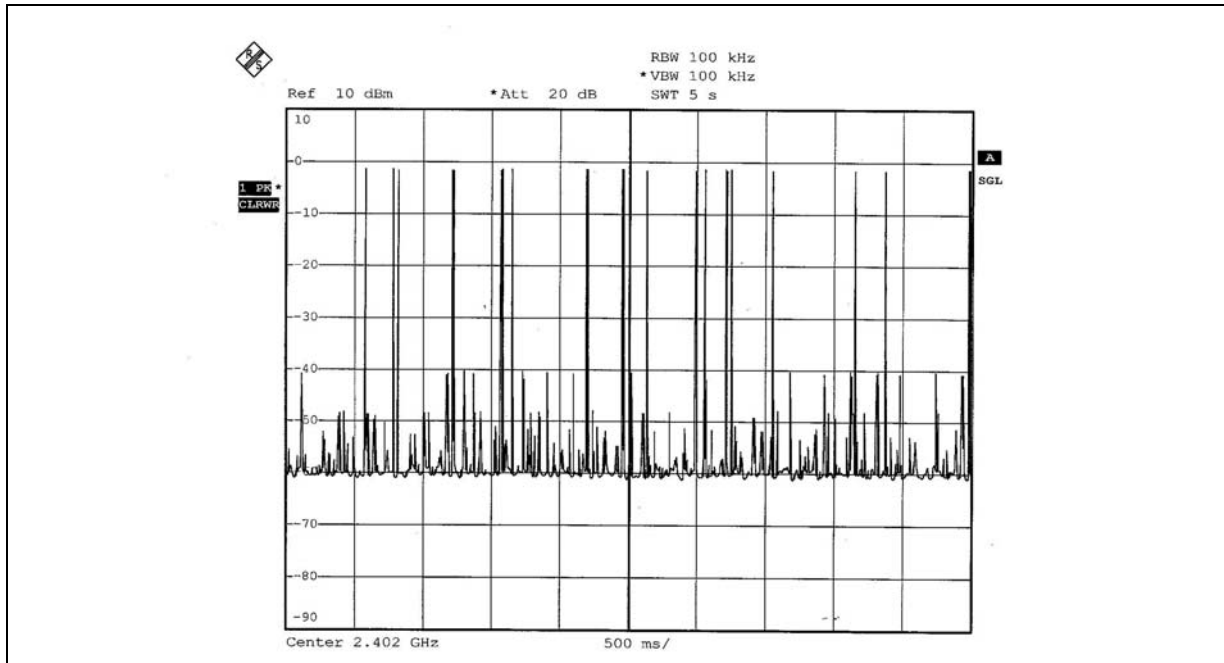


DH3





DH5





## 6.5 CHANNEL BANDWIDTH

### 6.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, the 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

### 6.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

### 6.5.3 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

### 6.5.4 DEVIATION FROM TEST STANDARD

No deviation.

### 6.5.5 TEST SETUP



### 6.5.6 EUT OPERATING CONDITION

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



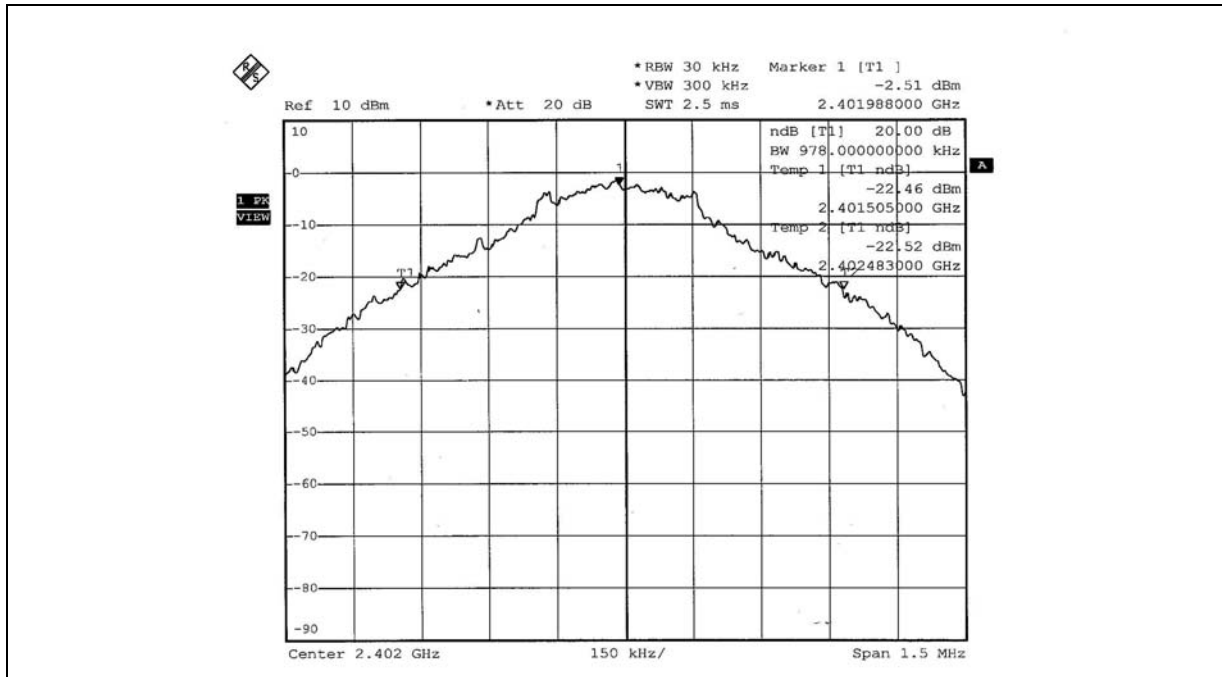
6.5.7 TEST RESULTS

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 63%RH, 991hPa
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TESTED BY</b>	Long Chen

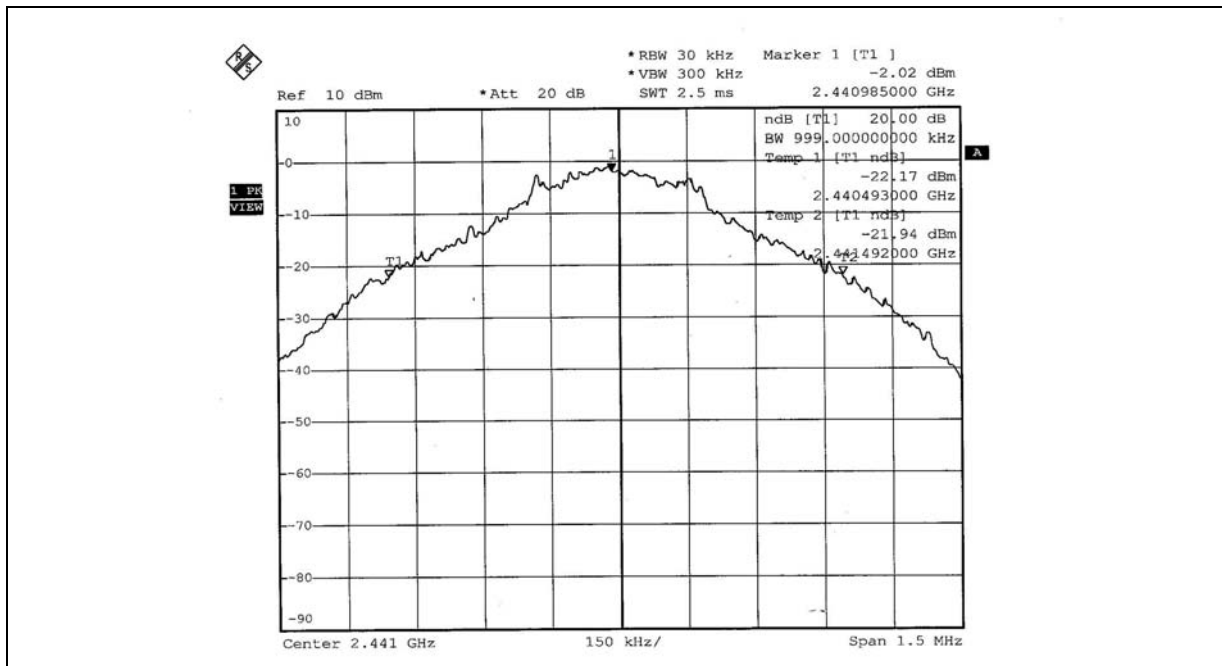
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>20dB BANDWIDTH (MHz)</b>
0	2402	0.978
39	2441	0.999
78	2480	0.960



CH 0

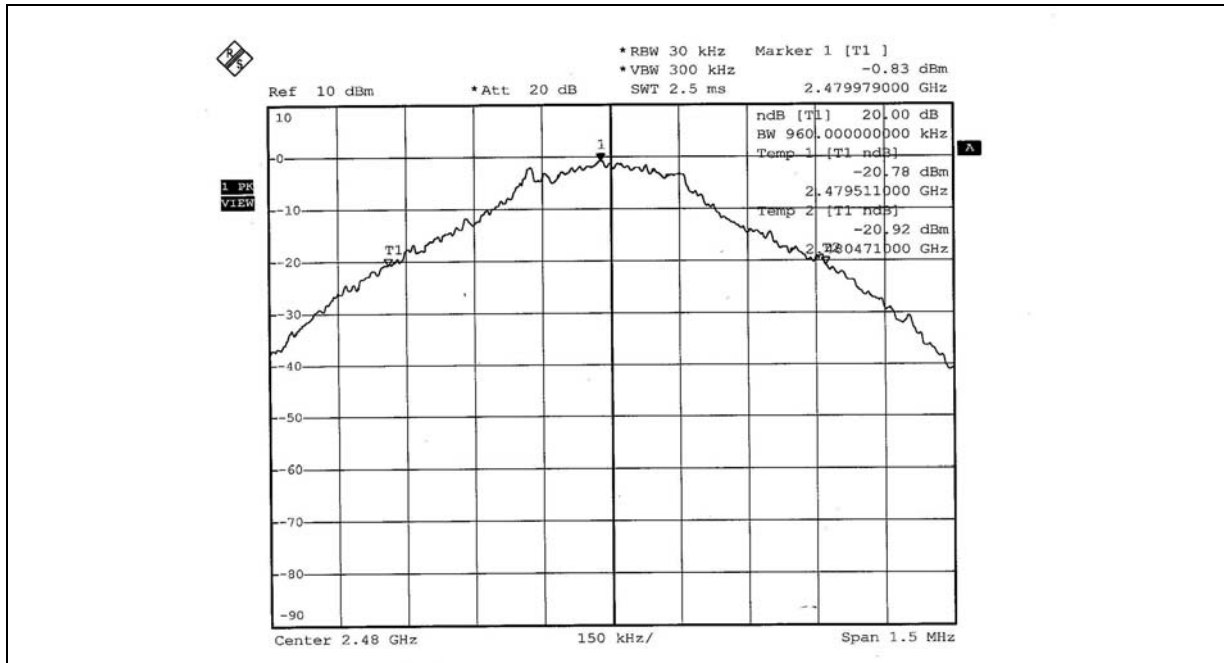


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## 6.6 HOPPING CHANNEL SEPARATION

### 6.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

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

### 6.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

### 6.6.3 TEST PROCEDURES

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

### 6.6.4 DEVIATION FROM TEST STANDARD

No deviation.

### 6.6.5 TEST SETUP





## 6.6.6 TEST RESULTS

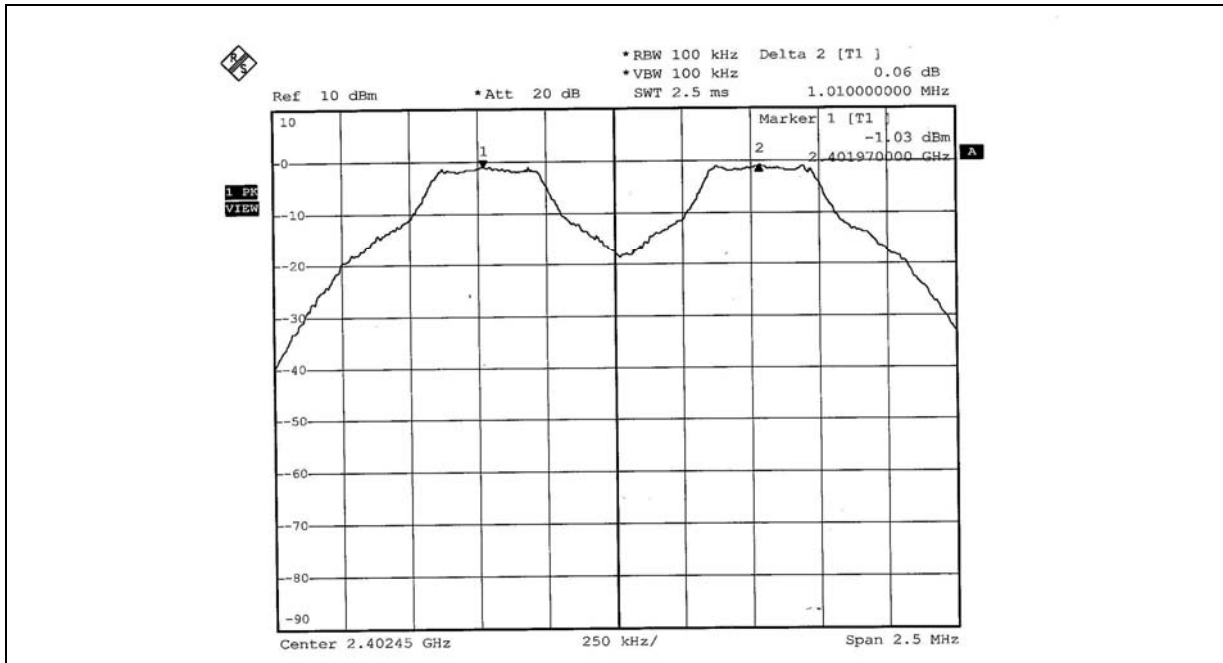
<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	27deg. C, 63%RH, 991hPa
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TESTED BY</b>	Long Chen

<b>CHANNEL</b>	<b>FREQUENCY (MHz)</b>	<b>ADJACENT CHANNEL SEPARATION (MHz)</b>	<b>MINIMUM LIMIT (MHz)</b>	<b>PASS / FAIL</b>
0	2402	1.010	0.978	PASS
39	2441	1.010	0.999	PASS
78	2480	1.010	0.960	PASS

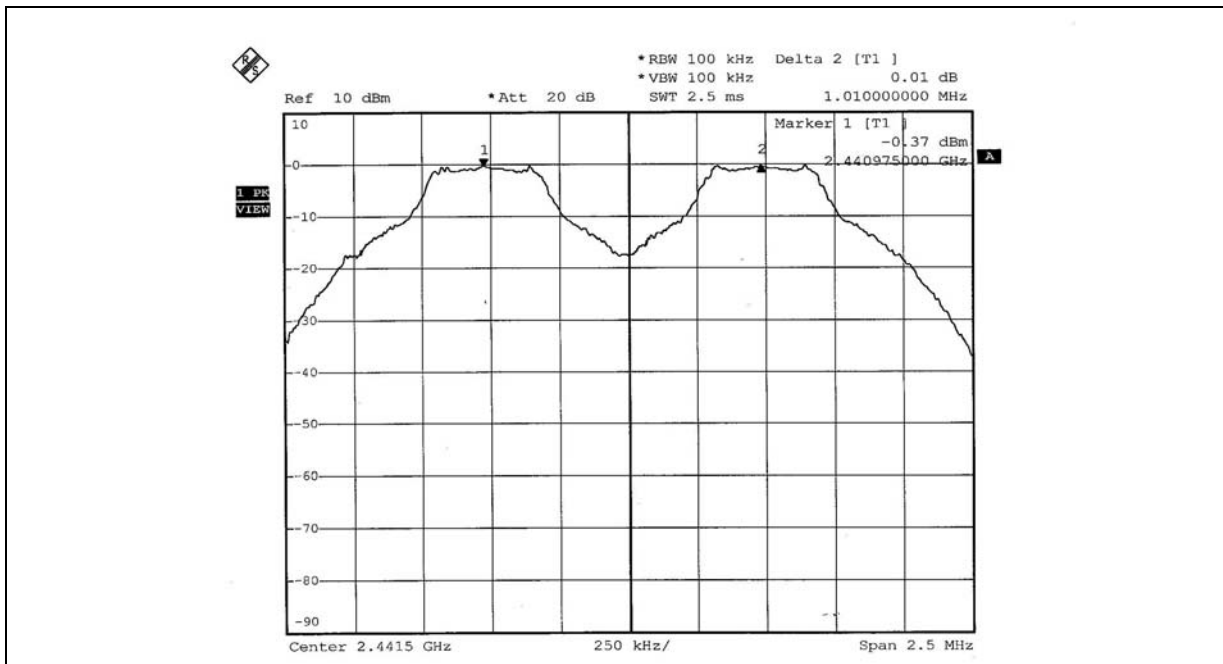
**NOTE:** The minimum limit is 20dB bandwidth. Test results please refer to next two pages.



CH 0

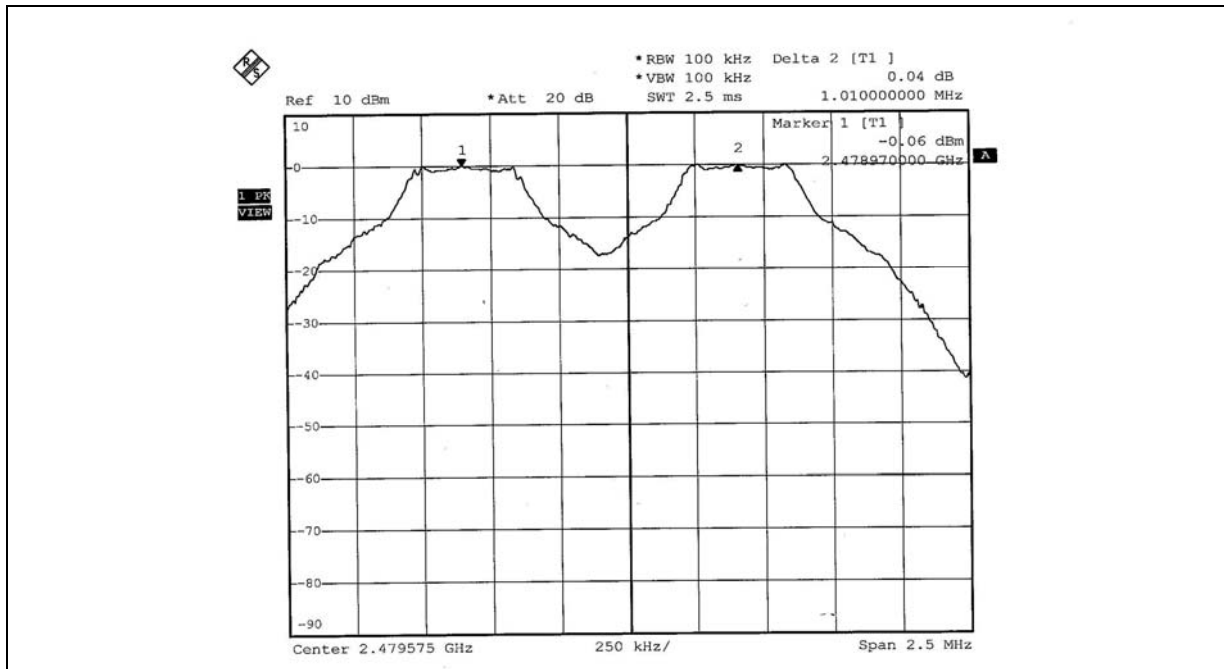


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## 6.7 MAXIMUM PEAK OUTPUT POWER

### 6.7.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

### 6.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYEER	FSEK30	100049	Aug. 14, 2006

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

### 6.7.3 TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 1 MHz RBW and 3 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

### 6.7.4 DEVIATION FROM TEST STANDARD

No deviation

### 6.7.5 TEST SETUP



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

### 6.7.6 EUT OPERATING CONDITION

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



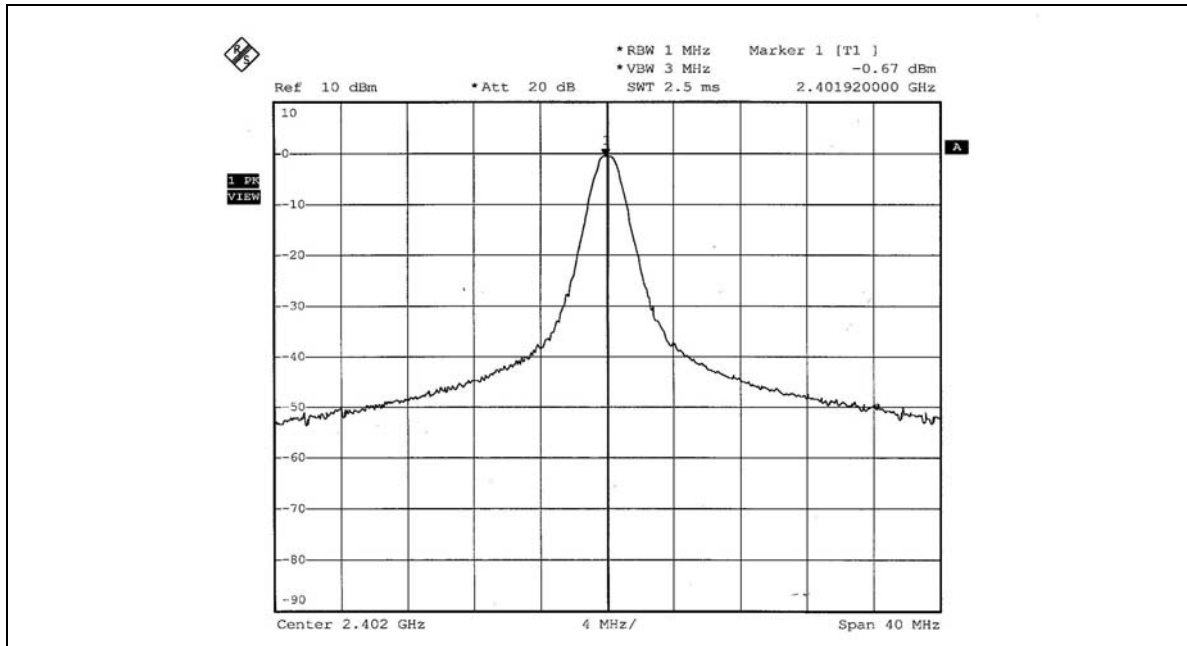
## 6.7.7 TEST RESULTS

<b>EUT</b>	EDA (Enterprise Digital Assistant)	<b>MODEL</b>	MC7094
<b>MODULATION TYPE</b>	GFSK	<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 54%RH, 991hPa
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>TESTED BY</b>	Long Chen

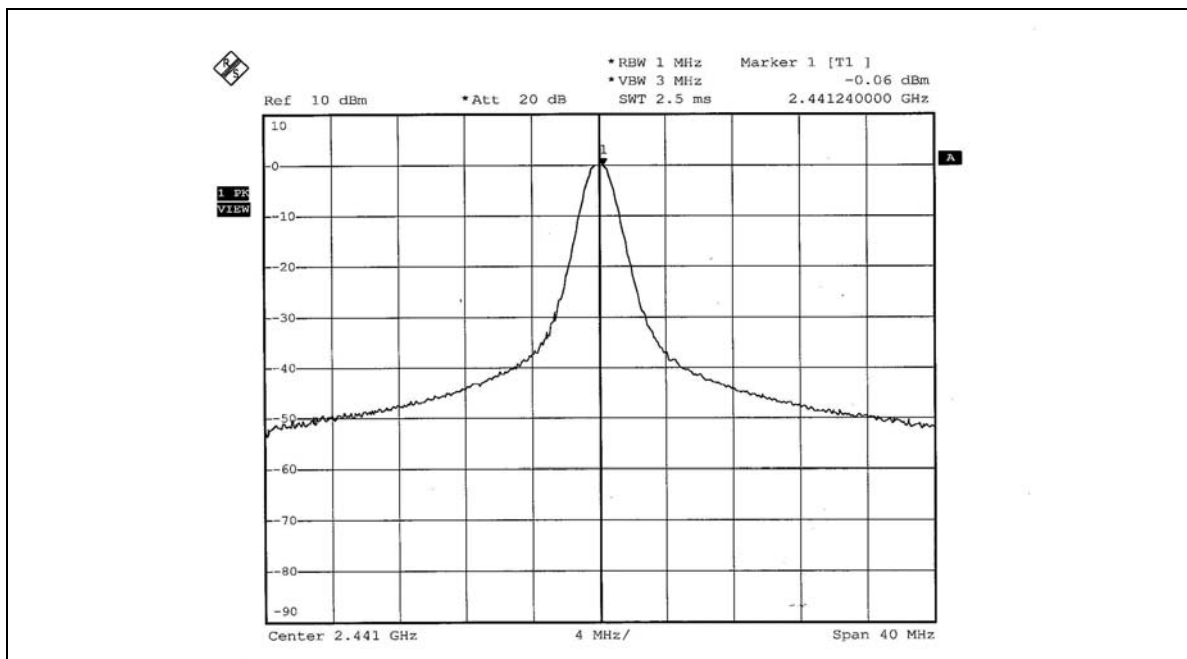
<b>CHANNEL</b>	<b>CHANNEL FREQUENCY (MHz)</b>	<b>PEAK POWER OUTPUT (mW)</b>	<b>PEAK POWER OUTPUT (dBm)</b>	<b>PEAK POWER LIMIT (dBm)</b>	<b>PASS/FAIL</b>
0	2402	0.857	-0.67	30	PASS
39	2441	0.986	-0.06	30	PASS
78	2480	1.072	0.30	30	PASS



CH 0



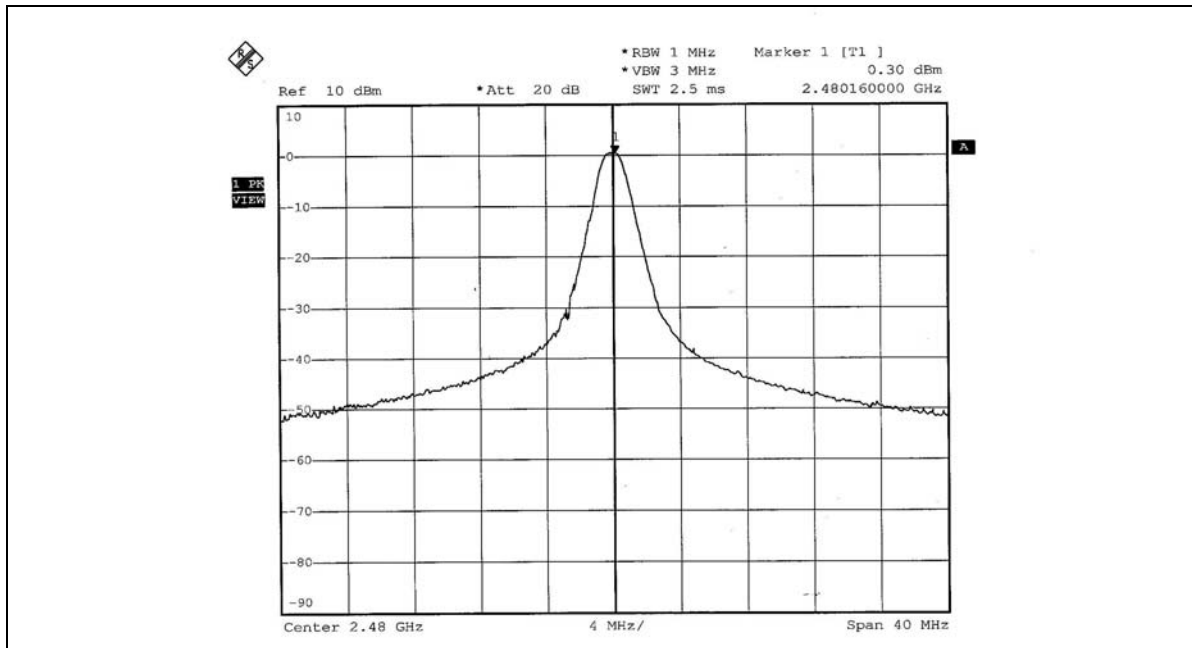
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## 6.8 BAND EDGES MEASUREMENT

### 6.8.1 LIMITS OF BAND EDGES MEASUREMENT

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

### 6.8.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

### 6.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 6.8.4 DEVIATION FROM TEST STANDARD

No deviation.

### 6.8.5 EUT OPERATING CONDITION

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



### 6.8.6 TEST RESULTS

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

**NOTE 1:**

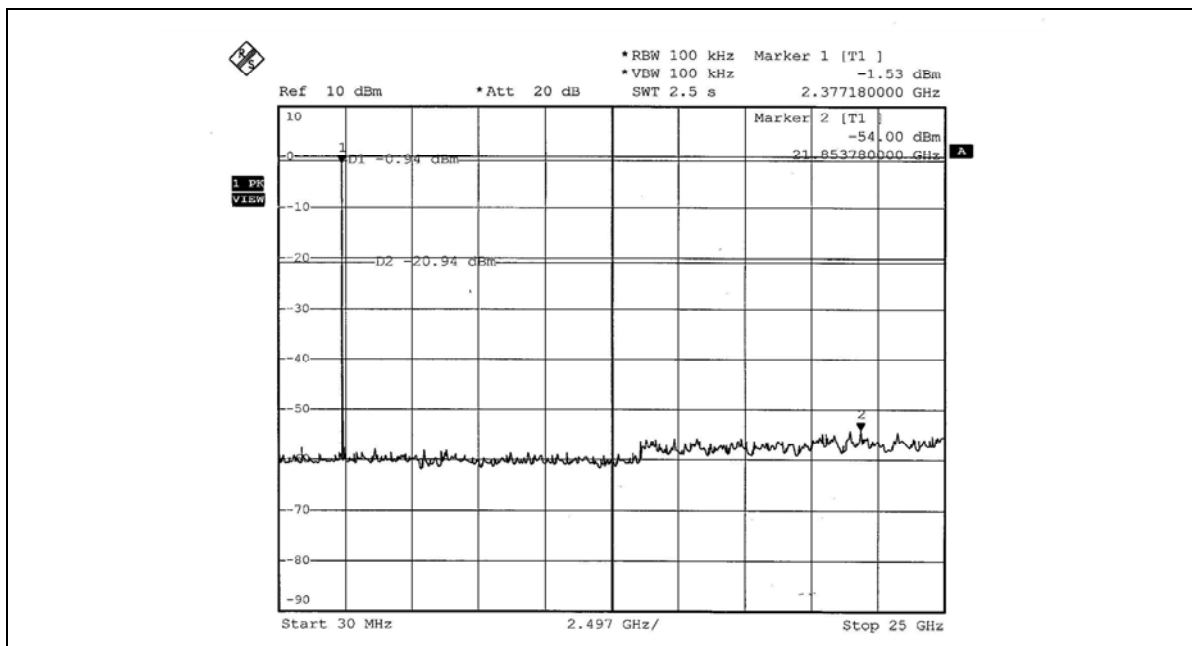
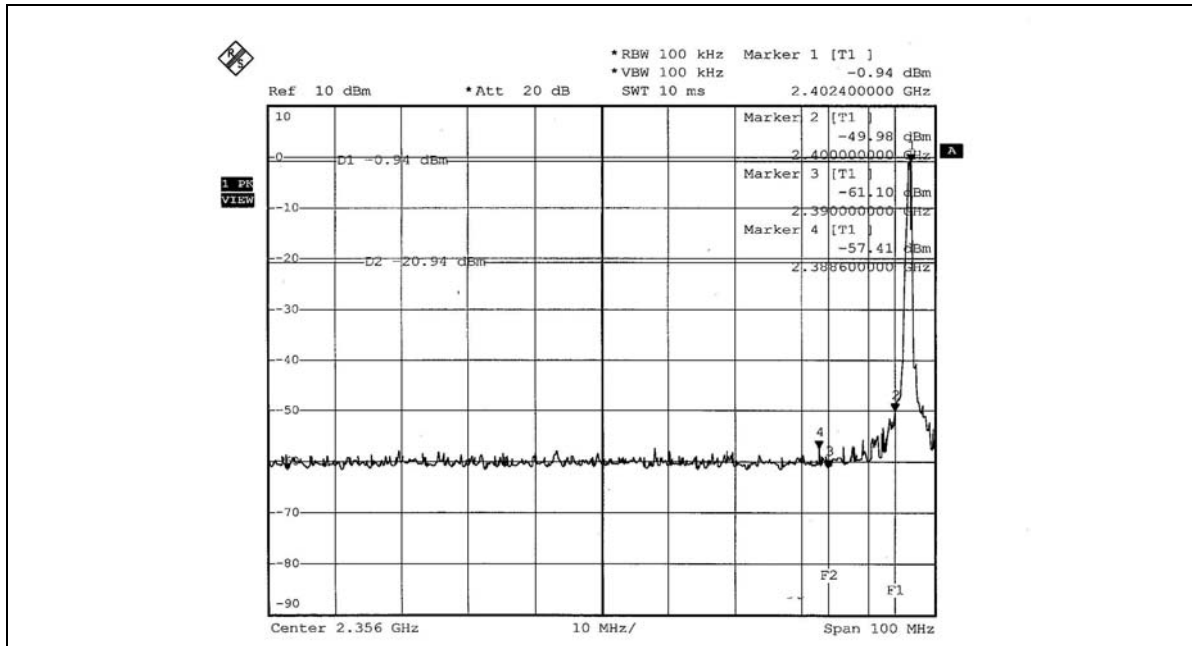
The band edge emission plot on page 164 shows 56.47dBc between carrier maximum power and local maximum emission in restrict band (2.3886GHz). The emission of carrier strength list in the test result of channel 0 at the item 6.2.7 is 92.67dBuV/m (Peak), so the maximum field strength in restrict band is  $92.67-56.47=36.20$ dBuV/m, which is under 74 dBuV/m limit.

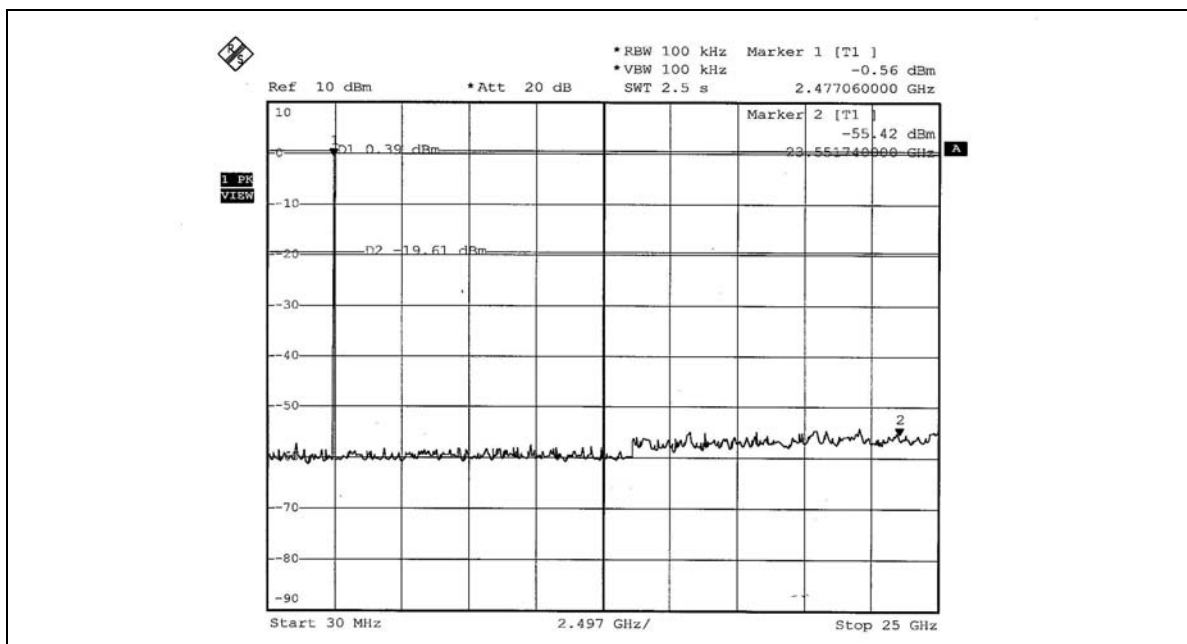
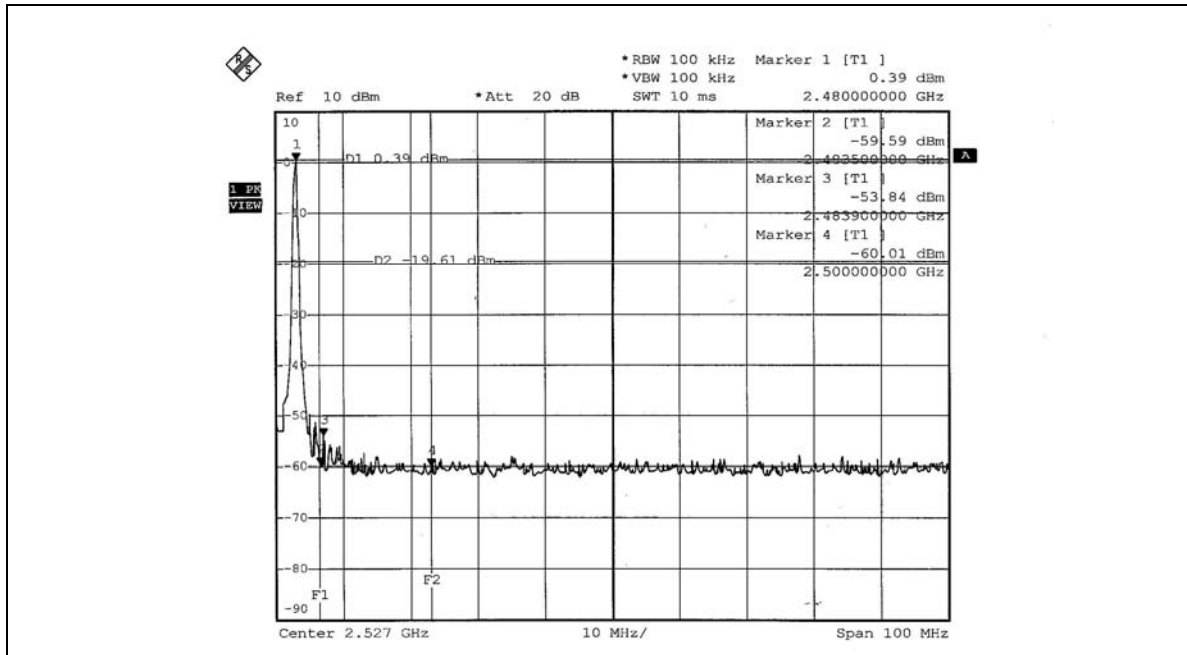
The band edge emission plot on page 164 shows 56.47dBc between carrier maximum power and local maximum emission in restrict band (2.3886GHz). The emission of carrier strength list in the test result of channel 0 at the item 6.2.7 is 62.67dBuV/m (Average), so the maximum field strength in restrict band is  $62.67-56.47=6.20$ dBuV/m, which is under 54 dBuV/m limit.

**NOTE 2:**

The band edge emission plot on page 165 shows 54.23dBc between carrier maximum power and local maximum emission in restrict band (2.4839GHz). The emission of carrier strength list in the test result of channel 78 at the item 6.2.7 is 93.06dBuV/m (Peak), so the maximum field strength in restrict band is  $93.06-54.23=38.83$ dBuV/m, which is under 74 dBuV/m limit.

The band edge emission plot on page 165 shows 54.23dBc between carrier maximum power and local maximum emission in restrict band (2.4839GHz). The emission of carrier strength list in the test result of channel 78 at the item 6.2.7 is 63.06dBuV/m (Average), so the maximum field strength in restrict band is  $63.06-54.23=8.83$ dBuV/m, which is under 54 dBuV/m limit.







## **6.9 ANTENNA REQUIREMENT**

### **6.9.1 STANDARD APPLICABLE**

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

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

### **6.9.2 ANTENNA CONNECTED CONSTRUCTION**

The antenna used in this product is Chip antenna without antenna connector. The maximum gain of this antenna is 2.0dBi.



## 7. 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.

<b>USA</b>	FCC, NVLAP, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA , CSA
<b>R.O.C.</b>	CNLA, BSMI, DGT
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB , GOST-ASIA(MOU)
<b>Russia</b>	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](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26052943

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343

Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety Telecom Lab:**

Tel: 886-3-3183232

Fax: 886-3-3185050

**Linko RF Lab.**

Tel: 886-3-3270910

Fax: 886-3-3270892

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



## **APPENDIX-A**

### **MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.