



FCC TEST REPORT

REPORT NO.: RF960417L03

MODEL NO.: WAP2000

RECEIVED: Apr. 18, 2007

TESTED: Apr. 18 ~ May 10, 2007

ISSUED: May 14, 2007

APPLICANT : Cisco-Linksys LLC

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ISSUED BY : Advance Data Technology Corporation

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1 CERTIFICATION

PRODUCT: Wireless-G Access Point with Power Over Ethernet
MODEL: WAP2000
BRAND: Linksys
APPLICANT: Cisco-Linksys LLC
TESTED: Apr. 18 ~ May 10, 2007
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.4-2003

The above equipment (model: WAP2000) 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 : Peggy Chen , **DATE:** May 14, 2007
Peggy Chen

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** May 14, 2007
Responsible for RF
Long Chen

APPROVED BY : Gary Chang , **DATE:** May 14, 2007
Gary Chang / Supervisor

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -1.06dB at 0.266MHz.
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)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.01dB at 206.83MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20 dB 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
	30MHz ~ 200MHz	3.62 dB
Radiated emissions	200MHz ~1000MHz	3.64 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 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

PRODUCT	Wireless-G Access Point with Power Over Ethernet
MODEL NO.	WAP2000
FCC ID	Q87-WAP2000
POWER SUPPLY	48Vdc from POE 12Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
MAXIMUM OUTPUT POWER	80.353mW
ANTENNA TYPE	Dipole antenna with 3dBi gain
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICE	Adapter

NOTE:

- The EUT was powered by the following adapters and POE:

Adapter 1:

BRAND:	Linksys (ENG-07-04-00032)
MODEL:	AD12V/1A-SW
INPUT:	100V-240Vac, 50/60Hz, 0.5A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable without core

Adapter 2:

BRAND:	Linksys
MODEL:	MT12-4120100-A1
INPUT:	120Vac, 60Hz, 0.3A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable without core

Adapter 3:

BRAND:	Linksys
MODEL:	LS120V10A
INPUT:	100-240Vac, 50/60Hz, 0.5A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable without core



Adapter 4:

BRAND:	Linksys
MODEL:	LS120V10AE
INPUT:	100-240Vac, 50/60Hz, 0.5A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable without core

Adapter 5:

BRAND:	Linksys (EXS-0705008426)
MODEL:	AD12V/1A-SW
INPUT:	100-240Vac, 50/60Hz, 0.5A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable without core

POE:

BRAND:	PowerDsine™ 3001
MODEL:	PD-3001/AC
INPUT:	100-250Vac, 50/60Hz, 0.5A
OUTPUT:	48Vdc, 0.35A
POWER LINE:	1.8m non-shielded cable without core

* The POE is for support unit only.

2. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
4. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

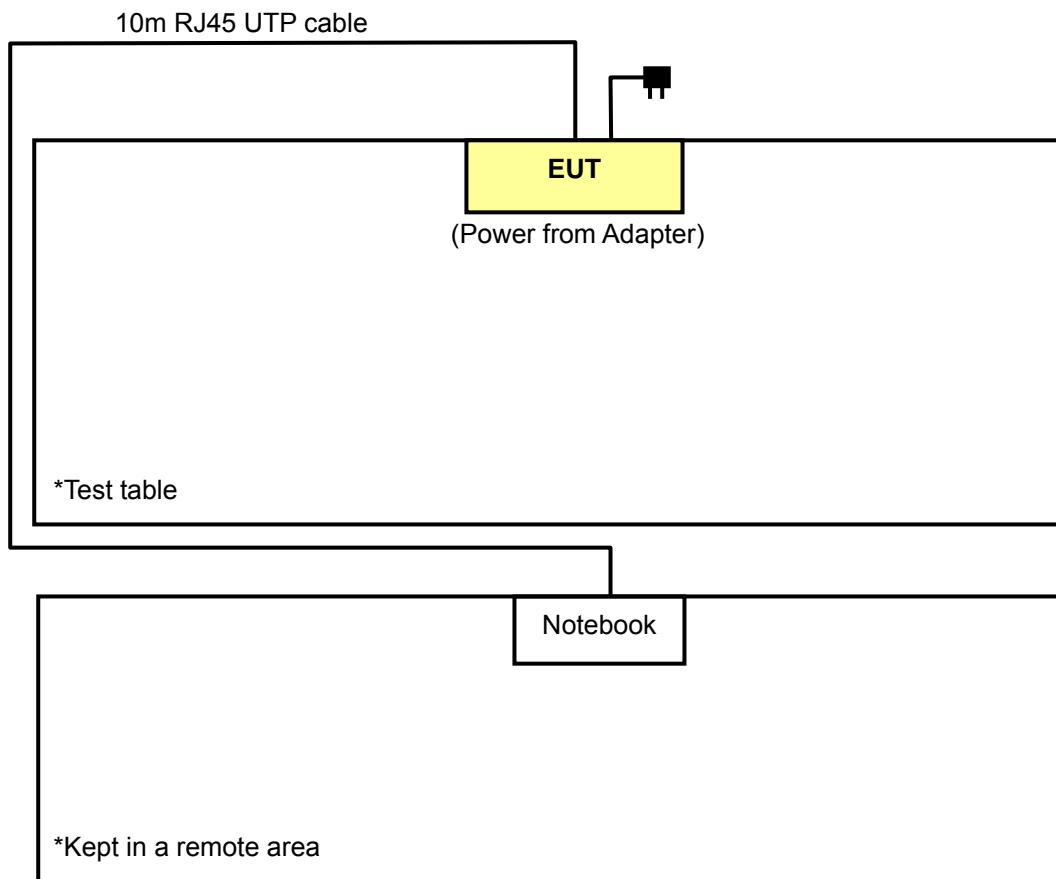
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

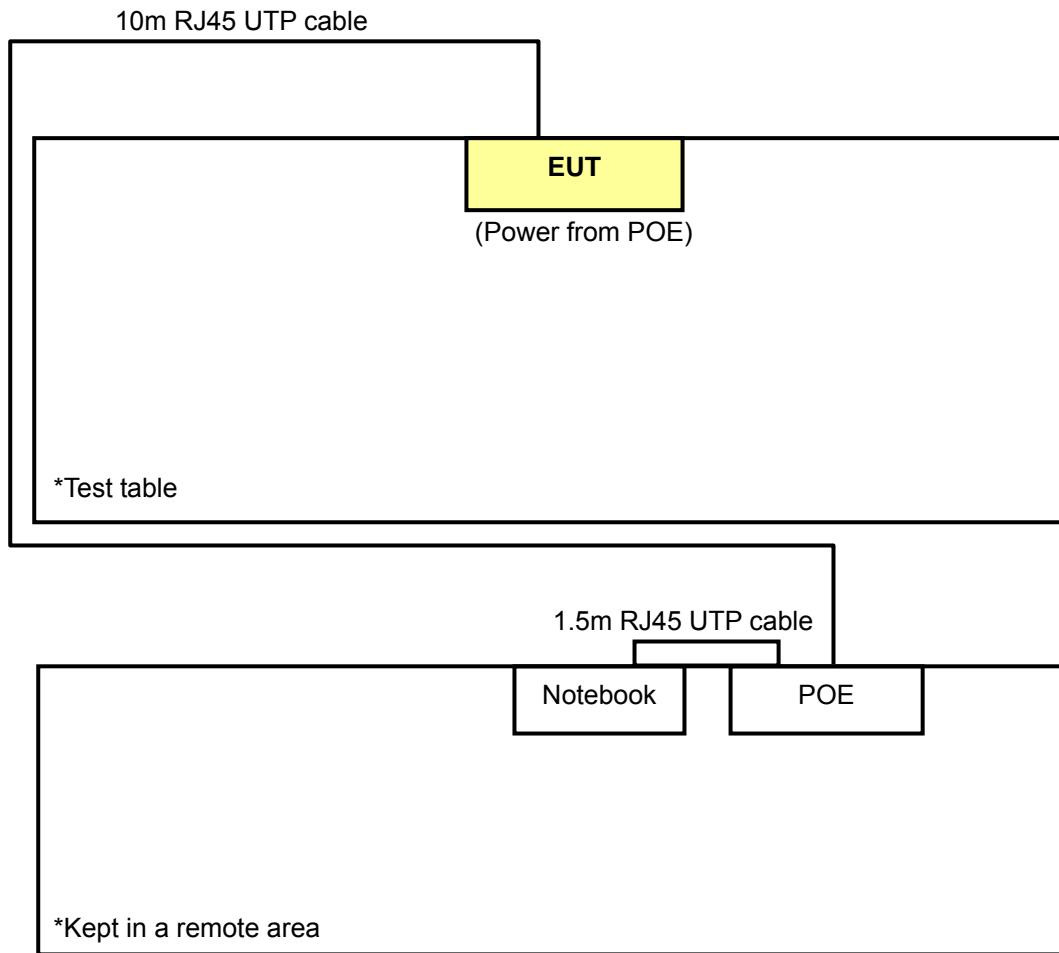
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Test Mode A ~ E



Test Mode F



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT Configure Mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	√	√	Power from Adapter: AD12V/1A-SW (ENG-07-04-00032)
B	√	√	-	-	Power from Adapter: MT12-4120100-A1
C	√	√	-	-	Power from Adapter: LS120V10A
D	√	√	-	-	Power from Adapter: LS120V10AE
E	√	√	-	-	Power from Adapter: AD12V/1A-SW (EXS-0705008426)
F	√	√	-	-	Power from POE: PD-3001/AC

Where **PLC**: Power Line Conducted Emission **RE<1G**: Radiated Emission below 1GHz
RE≥1G: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement
“-”: 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).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A~F	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

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 and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A~F	802.11g	1 to 11	11	OFDM	BPSK	6



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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6

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.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1
A	802.11g	1 to 11	1, 11	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.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6



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	POE	PowerDsine™ 3001	PD-3001/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10 m RJ45 UTP cable (For Test Mode A~E), 1.5m RJ45 UTP cable (For Test Mode F)
2	10 m RJ45 UTP cable

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 and 2 act as communication partners to transfer data.
3. Item 2 was provided by client.

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ 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	100289	Dec. 07, 2007
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2008
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 13, 2008
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Sep. 14, 2007
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 1.
 3. The VCCI Site Registration No. is C-2040.

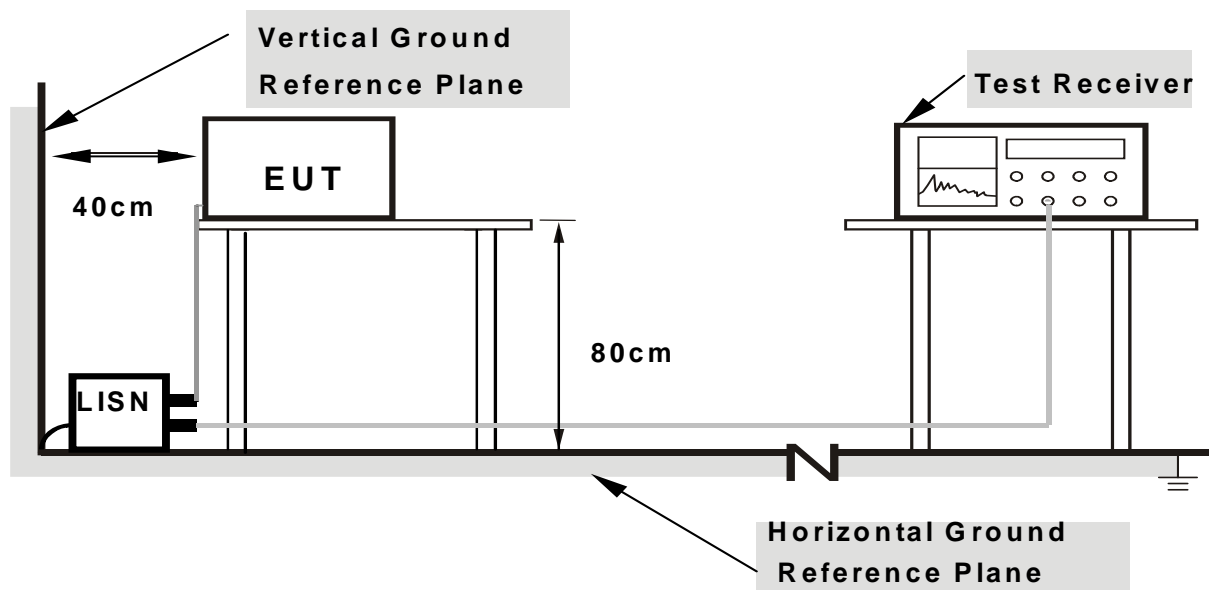
4.1.3 TEST PROCEDURES

- 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 attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared a notebook system to act as communication partners and placed it outside of testing area.
- c. The communication partners run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency via an RJ45 cable.
- d. The communication partner sent data to EUT by command "PING".

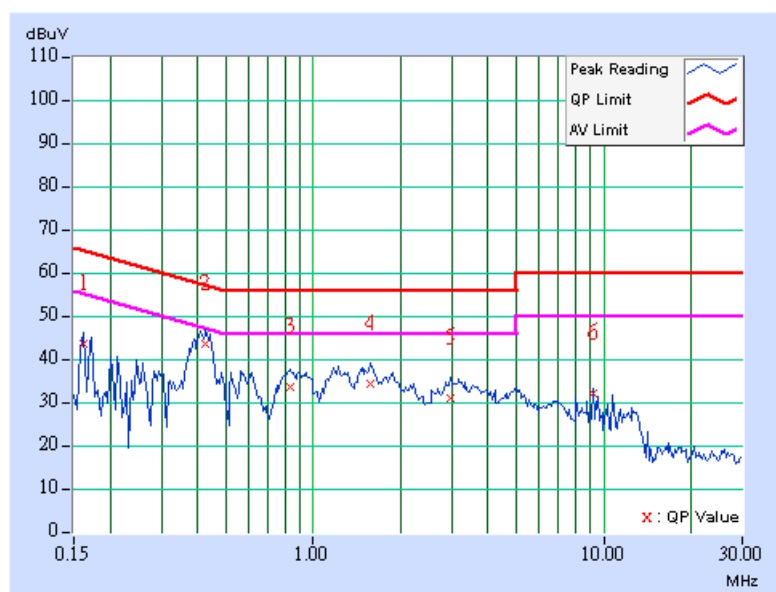
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.162	0.21	43.29	-	43.50	-	65.38	55.38	-21.88	-
2	0.427	0.21	43.03	-	43.24	-	57.30	47.30	-14.06	-
3	0.830	0.23	33.05	-	33.28	-	56.00	46.00	-22.72	-
4	1.578	0.25	33.86	-	34.11	-	56.00	46.00	-21.89	-
5	2.980	0.32	30.60	-	30.92	-	56.00	46.00	-25.08	-
6	9.172	0.52	31.52	-	32.04	-	60.00	50.00	-27.96	-

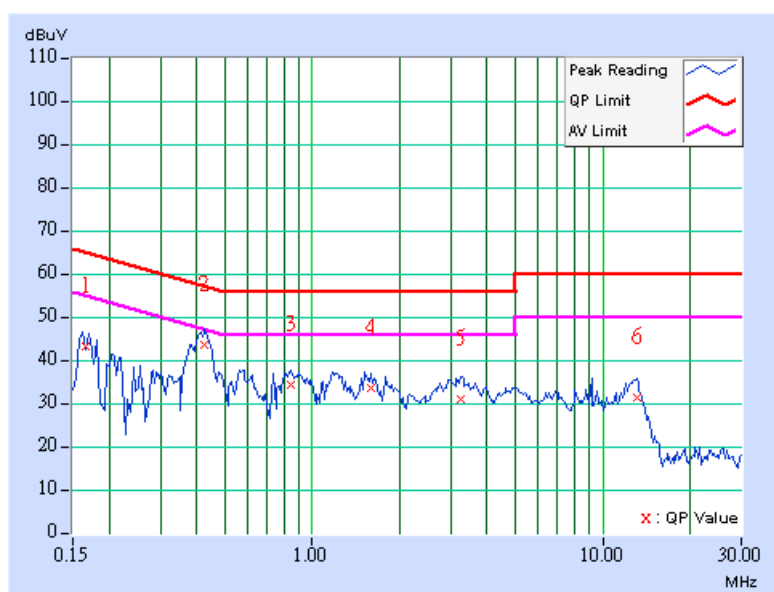
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.167	0.21	42.87	-	43.08	-	65.11	55.11	-22.03	-
2	0.427	0.21	43.07	-	43.28	-	57.30	47.30	-14.02	-
3	0.841	0.23	34.06	-	34.29	-	56.00	46.00	-21.71	-
4	1.586	0.25	33.08	-	33.33	-	56.00	46.00	-22.67	-
5	3.242	0.34	30.76	-	31.10	-	56.00	46.00	-24.90	-
6	13.133	0.48	30.85	-	31.33	-	60.00	50.00	-28.67	-

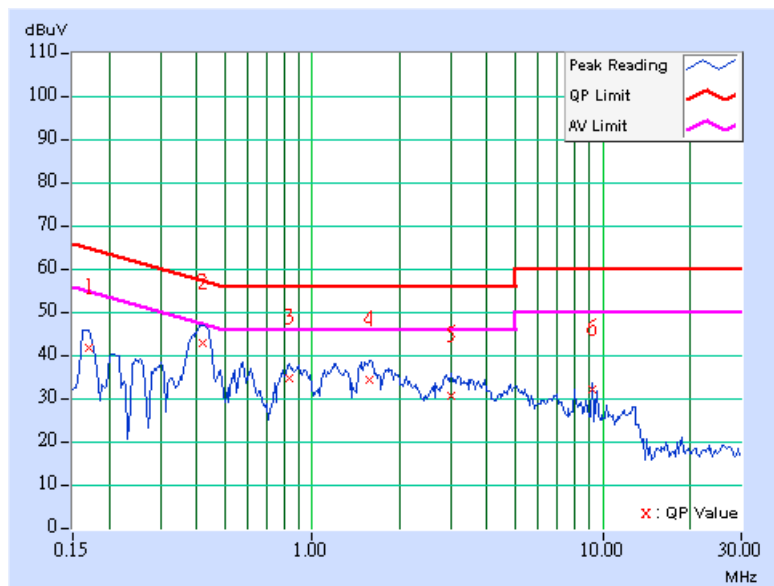
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 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.170	0.21	41.26	-	41.47	-	64.98	54.98	-23.52	-
2	0.420	0.21	42.42	-	42.63	-	57.46	47.46	-14.83	-
3	0.830	0.23	34.33	-	34.56	-	56.00	46.00	-21.44	-
4	1.582	0.25	34.04	-	34.29	-	56.00	46.00	-21.71	-
5	3.004	0.33	30.31	-	30.64	-	56.00	46.00	-25.36	-
6	9.172	0.52	31.72	-	32.24	-	60.00	50.00	-27.76	-

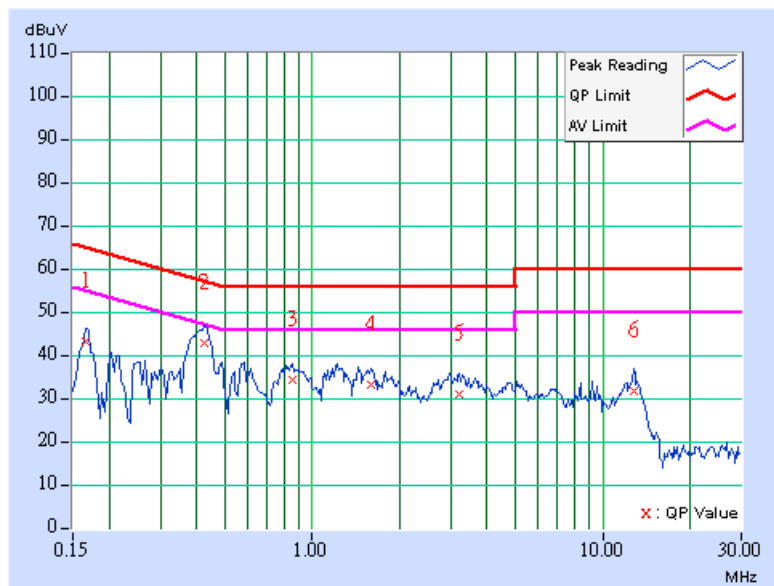
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.166	0.21	42.93	-	43.14	-	65.18	55.18	-22.04	-
2	0.423	0.21	42.46	-	42.67	-	57.38	47.38	-14.71	-
3	0.853	0.23	34.00	-	34.23	-	56.00	46.00	-21.77	-
4	1.586	0.25	33.02	-	33.27	-	56.00	46.00	-22.73	-
5	3.211	0.34	30.60	-	30.94	-	56.00	46.00	-25.06	-
6	12.832	0.49	31.28	-	31.77	-	60.00	50.00	-28.23	-

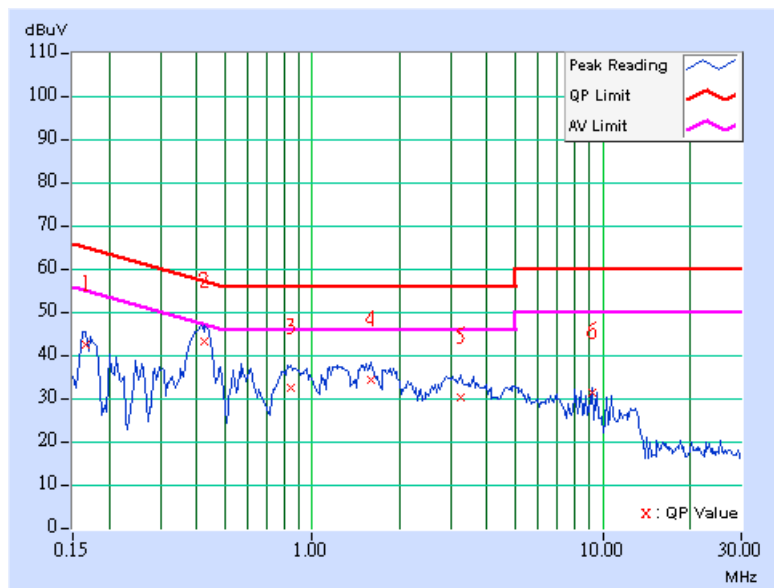
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 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.166	0.21	41.97	-	42.18	-	65.18	55.18	-23.00	-
2	0.427	0.21	42.93	-	43.14	-	57.30	47.30	-14.16	-
3	0.841	0.23	32.16	-	32.39	-	56.00	46.00	-23.61	-
4	1.586	0.25	34.06	-	34.31	-	56.00	46.00	-21.69	-
5	3.262	0.34	29.94	-	30.28	-	56.00	46.00	-25.72	-
6	9.172	0.52	31.04	-	31.56	-	60.00	50.00	-28.44	-

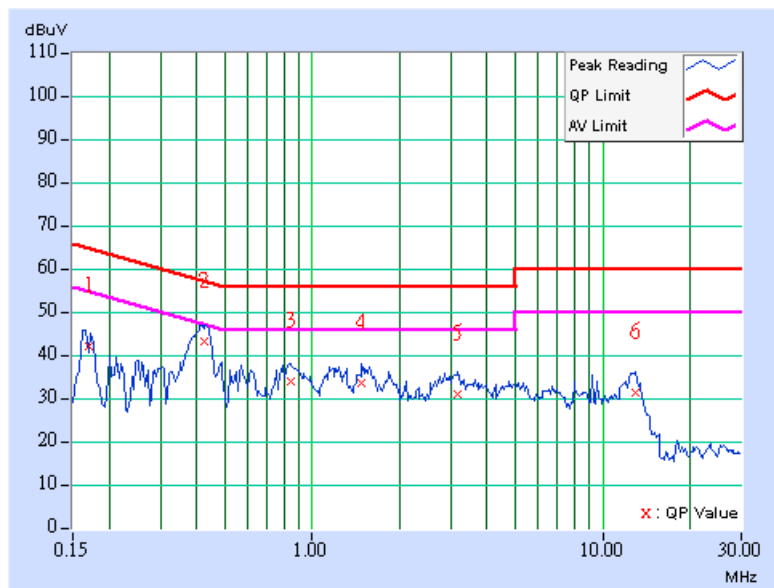
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Match Tsui		

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	0.171	0.21	41.58	-	41.79	-	64.93	54.93	-23.14	-
2	0.427	0.21	42.93	-	43.14	-	57.30	47.30	-14.16	-
3	0.849	0.23	33.50	-	33.73	-	56.00	46.00	-22.27	-
4	1.484	0.25	33.08	-	33.33	-	56.00	46.00	-22.67	-
5	3.172	0.34	30.72	-	31.06	-	56.00	46.00	-24.94	-
6	12.949	0.49	31.12	-	31.61	-	60.00	50.00	-28.39	-

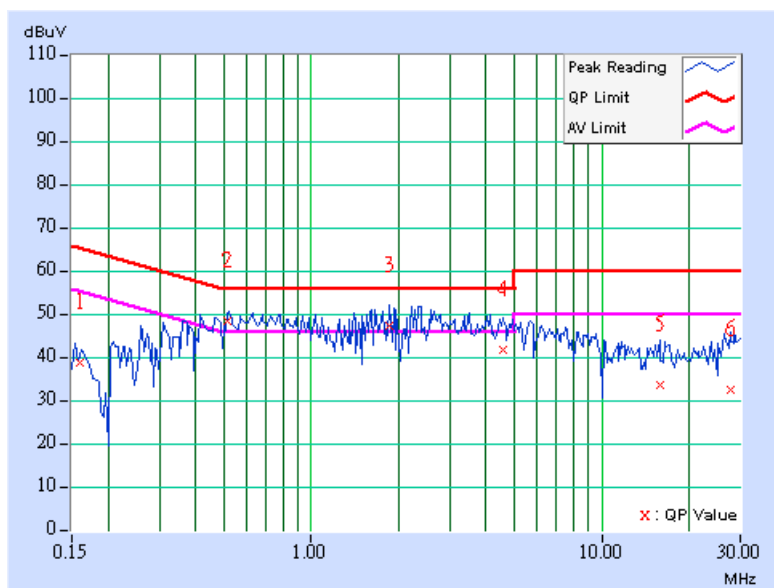
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.160	0.21	37.31	-	37.52	-	65.45	55.45	-27.93	-
2	0.517	0.22	46.73	24.17	46.95	24.39	56.00	46.00	-9.05	-21.61
3	1.863	0.26	45.51	-	45.77	-	56.00	46.00	-10.23	-
4	4.555	0.40	40.14	-	40.54	-	56.00	46.00	-15.46	-
5	15.832	0.80	32.05	-	32.85	-	60.00	50.00	-27.15	-
6	27.688	1.72	30.89	-	32.61	-	60.00	50.00	-27.39	-

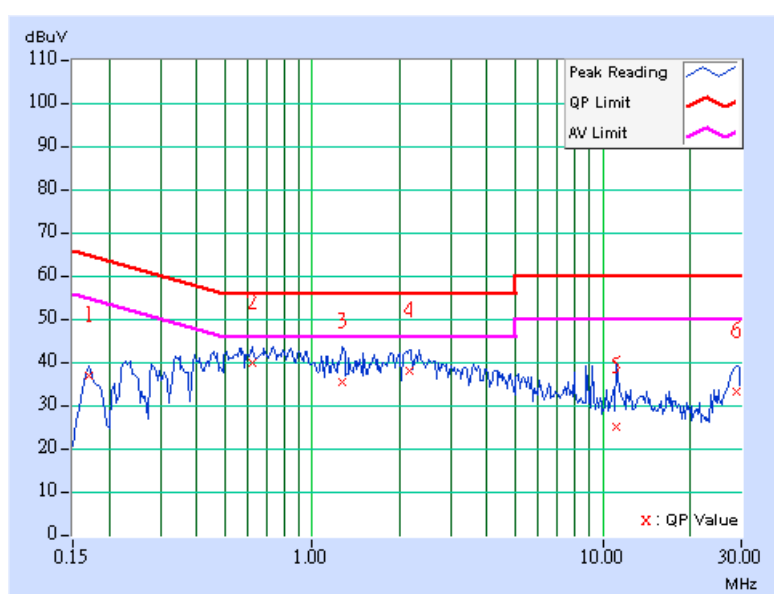
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.170	0.21	36.58	-	36.79	-	64.98	54.98	-28.20	-
2	0.619	0.22	39.42	-	39.64	-	56.00	46.00	-16.36	-
3	1.271	0.25	35.05	-	35.30	-	56.00	46.00	-20.70	-
4	2.176	0.27	37.61	-	37.88	-	56.00	46.00	-18.12	-
5	11.176	0.52	24.70	-	25.22	-	60.00	50.00	-34.78	-
6	29.000	0.56	32.96	-	33.52	-	60.00	50.00	-26.48	-

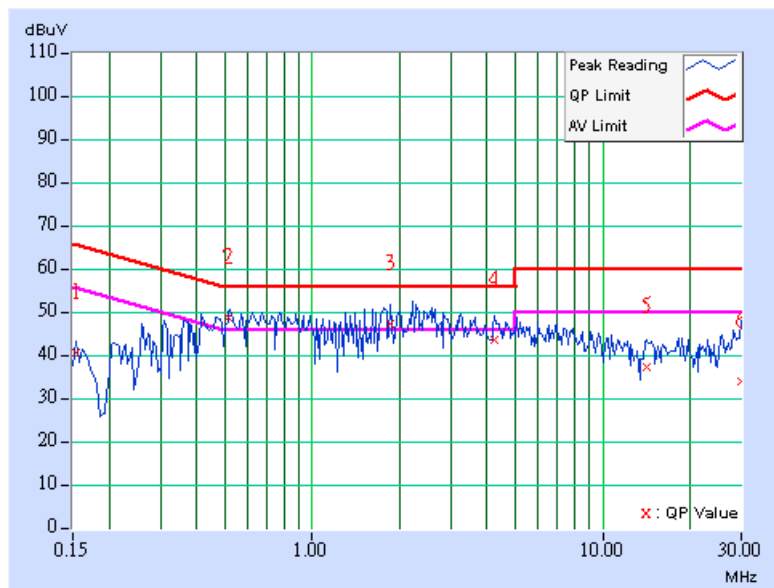
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.154	0.21	38.93	-	39.14	-	65.79	55.79	-26.65	-
2	0.517	0.22	46.93	24.48	47.15	24.70	56.00	46.00	-8.85	-21.30
3	1.859	0.26	45.37	-	45.63	-	56.00	46.00	-10.37	-
4	4.234	0.40	41.60	-	42.00	-	56.00	46.00	-14.00	-
5	14.242	0.72	35.60	-	36.32	-	60.00	50.00	-23.68	-
6	29.934	1.95	31.97	-	33.92	-	60.00	50.00	-26.08	-

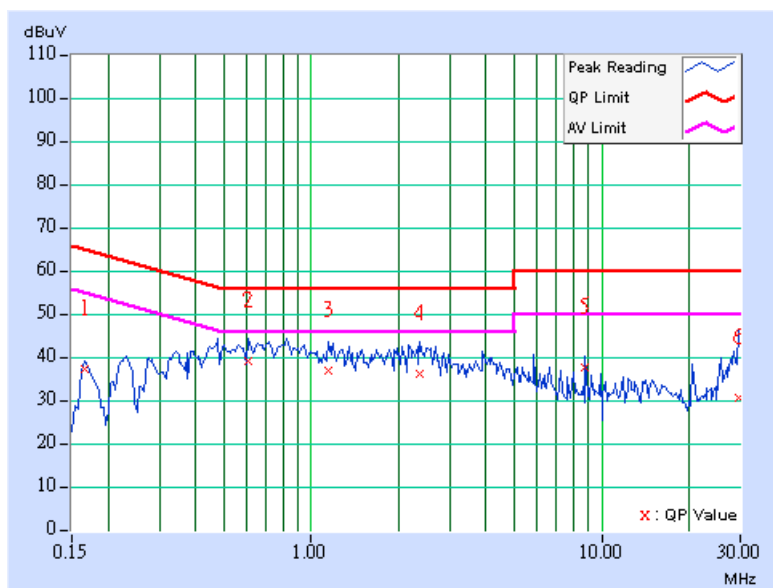
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.166	0.21	36.68	-	36.89	-	65.18	55.18	-28.29	-
2	0.603	0.22	38.75	-	38.97	-	56.00	46.00	-17.03	-
3	1.152	0.24	36.63	-	36.87	-	56.00	46.00	-19.13	-
4	2.371	0.28	35.82	-	36.10	-	56.00	46.00	-19.90	-
5	8.785	0.51	37.04	-	37.55	-	60.00	50.00	-22.45	-
6	29.801	0.56	30.17	-	30.73	-	60.00	50.00	-29.27	-

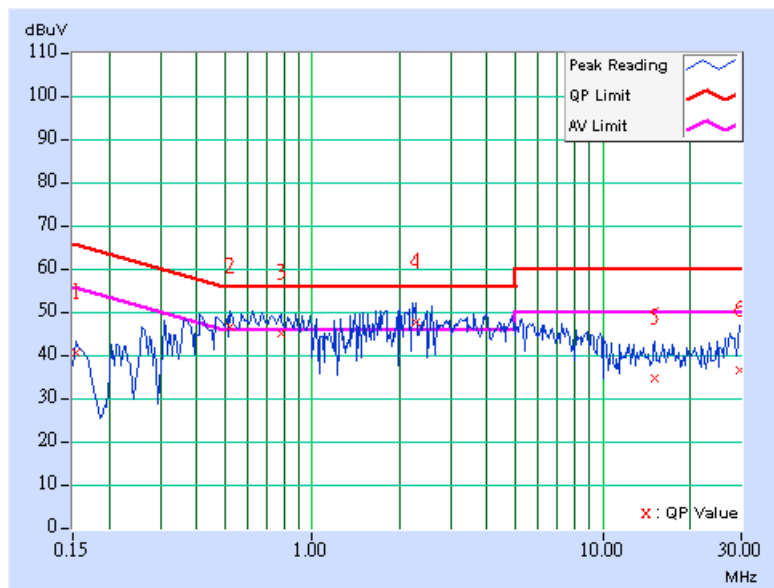
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.154	0.21	38.85	-	39.06	-	65.79	55.79	-26.73	-
2	0.521	0.22	44.68	-	44.90	-	56.00	46.00	-11.10	-
3	0.779	0.23	43.23	-	43.46	-	56.00	46.00	-12.54	-
4	2.270	0.28	45.71	-	45.99	-	56.00	46.00	-10.01	-
5	15.066	0.75	32.96	-	33.71	-	60.00	50.00	-26.29	-
6	29.680	1.93	34.60	-	36.53	-	60.00	50.00	-23.47	-

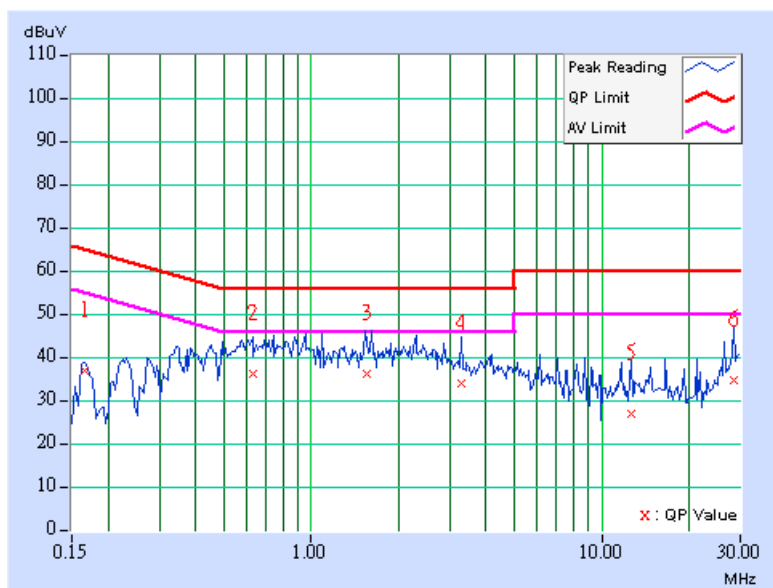
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Match Tsui		

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	0.166	0.21	36.42	-	36.63	-	65.18	55.18	-28.55	-
2	0.627	0.22	35.83	-	36.05	-	56.00	46.00	-19.95	-
3	1.551	0.25	35.79	-	36.04	-	56.00	46.00	-19.96	-
4	3.301	0.34	33.51	-	33.85	-	56.00	46.00	-22.15	-
5	12.570	0.49	26.49	-	26.98	-	60.00	50.00	-33.02	-
6	28.570	0.56	34.13	-	34.69	-	60.00	50.00	-25.31	-

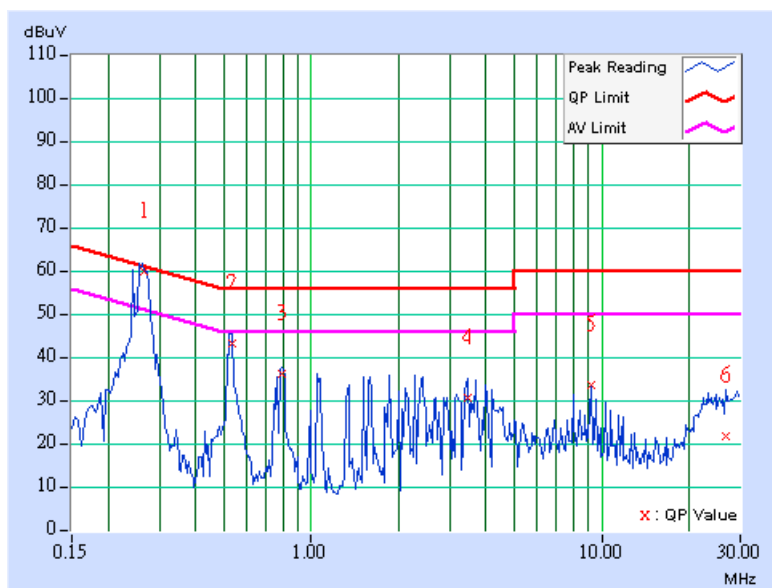
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.266	0.21	58.53	47.53	58.74	47.74	61.25	51.25	-2.51	-3.51
2	0.533	0.22	41.55	-	41.77	-	56.00	46.00	-14.23	-
3	0.792	0.23	34.66	-	34.89	-	56.00	46.00	-21.11	-
4	3.480	0.36	29.20	-	29.56	-	56.00	46.00	-26.44	-
5	9.168	0.52	32.05	-	32.57	-	60.00	50.00	-27.43	-
6	26.707	1.62	20.07	-	21.69	-	60.00	50.00	-38.31	-

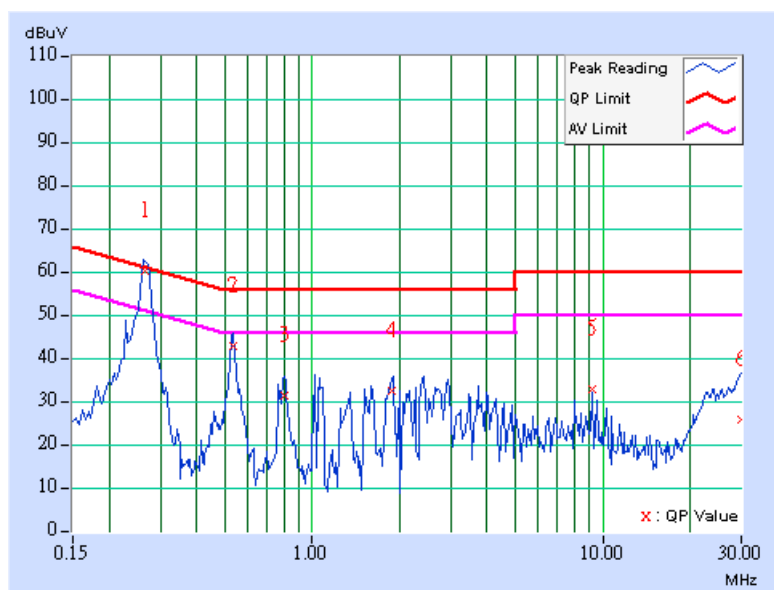
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.266	0.21	59.98	47.05	60.19	47.26	61.25	51.25	-1.06	-3.99
2	0.537	0.22	42.51	-	42.73	-	56.00	46.00	-13.27	-
3	0.802	0.23	31.03	-	31.26	-	56.00	46.00	-24.74	-
4	1.891	0.26	31.90	-	32.16	-	56.00	46.00	-23.84	-
5	9.168	0.52	32.32	-	32.84	-	60.00	50.00	-27.16	-
6	29.836	0.56	25.55	-	26.11	-	60.00	50.00	-33.89	-

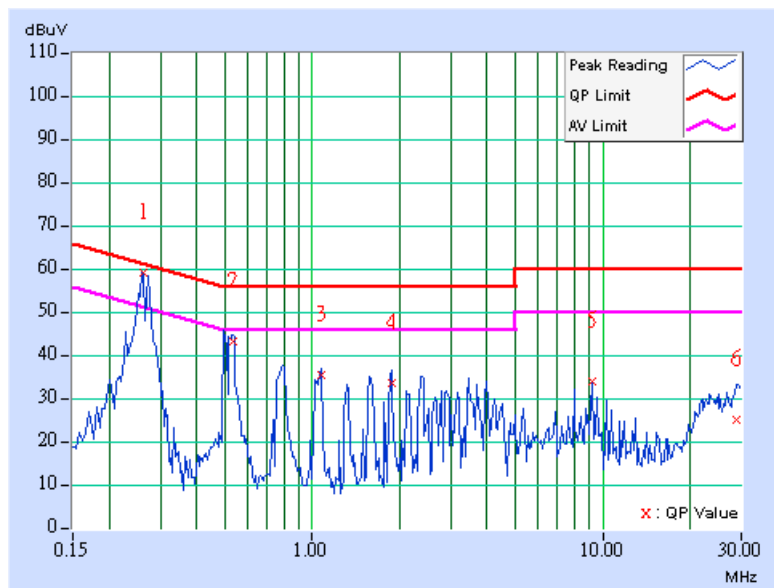
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.263	0.21	57.37	45.18	57.58	45.39	61.33	51.33	-3.75	-5.94
2	0.536	0.22	41.66	-	41.88	-	56.00	46.00	-14.12	-
3	1.070	0.24	33.67	-	33.91	-	56.00	46.00	-22.09	-
4	1.883	0.26	31.91	-	32.17	-	56.00	46.00	-23.83	-
5	9.168	0.52	32.09	-	32.61	-	60.00	50.00	-27.39	-
6	28.941	1.85	23.23	-	25.08	-	60.00	50.00	-34.92	-

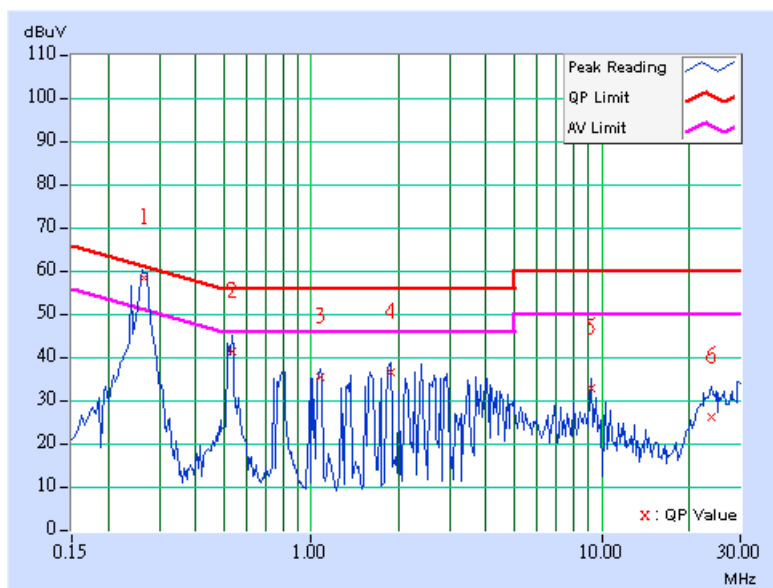
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.265	0.21	57.79	46.02	58.00	46.23	61.29	51.29	-3.29	-5.06
2	0.533	0.22	41.01	-	41.23	-	56.00	46.00	-14.77	-
3	1.074	0.24	34.90	-	35.14	-	56.00	46.00	-20.86	-
4	1.875	0.26	36.01	-	36.27	-	56.00	46.00	-19.73	-
5	9.168	0.52	32.40	-	32.92	-	60.00	50.00	-27.08	-
6	23.852	0.55	25.62	-	26.17	-	60.00	50.00	-33.83	-

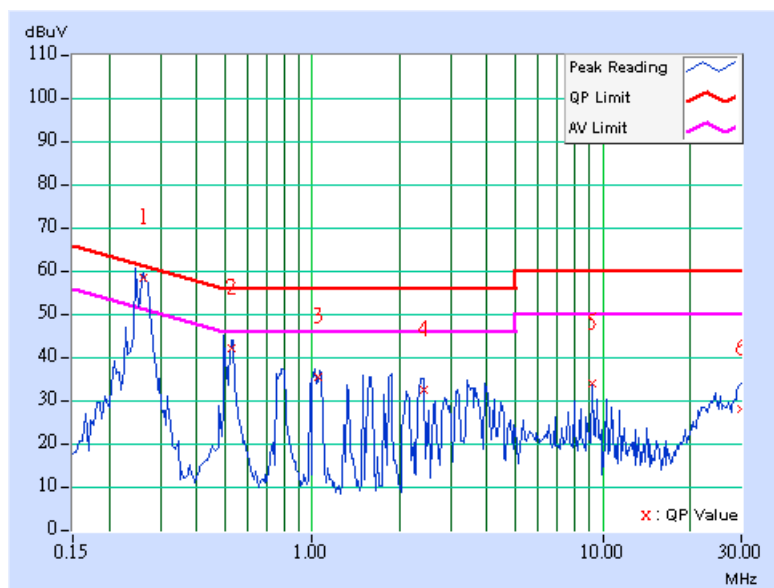
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.263	0.21	56.67	45.68	56.88	45.89	61.33	51.33	-4.45	-5.44
2	0.525	0.22	40.14	-	40.36	-	56.00	46.00	-15.64	-
3	1.046	0.24	33.50	-	33.74	-	56.00	46.00	-22.26	-
4	2.414	0.29	30.80	-	31.09	-	56.00	46.00	-24.91	-
5	9.168	0.52	32.11	-	32.63	-	60.00	50.00	-27.37	-
6	29.820	1.94	26.09	-	28.03	-	60.00	50.00	-31.97	-

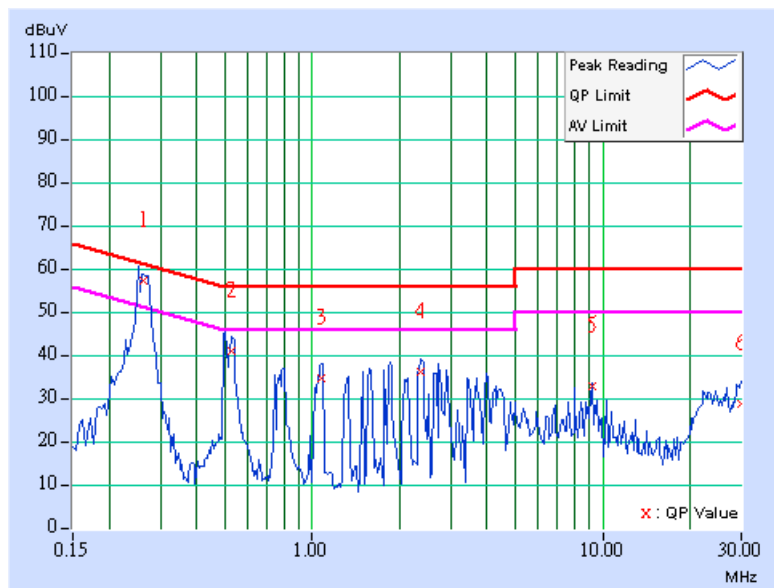
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Match Tsui		

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	0.263	0.21	56.87	44.66	57.08	44.87	61.33	51.33	-4.25	-6.46
2	0.529	0.22	40.46	-	40.68	-	56.00	46.00	-15.32	-
3	1.074	0.24	34.27	-	34.51	-	56.00	46.00	-21.49	-
4	2.359	0.28	35.66	-	35.94	-	56.00	46.00	-20.06	-
5	9.168	0.52	32.42	-	32.94	-	60.00	50.00	-27.06	-
6	29.969	0.56	28.23	-	28.79	-	60.00	50.00	-31.21	-

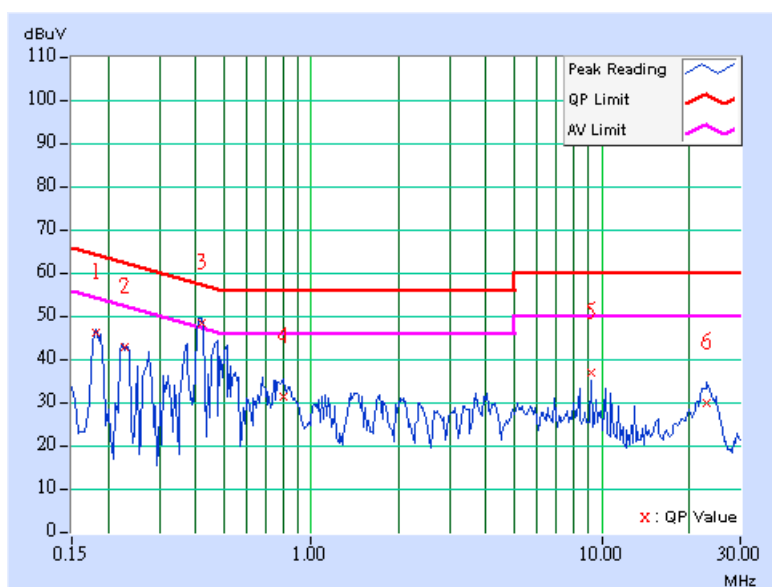
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.181	0.21	45.00	-	45.21	-	64.43	54.43	-19.22	-
2	0.228	0.21	41.67	-	41.88	-	62.52	52.52	-20.64	-
3	0.420	0.21	47.36	37.58	47.57	37.79	57.46	47.46	-9.89	-9.67
4	0.806	0.23	30.13	-	30.36	-	56.00	46.00	-25.64	-
5	9.168	0.52	35.80	-	36.32	-	60.00	50.00	-23.68	-
6	23.063	1.29	28.64	-	29.93	-	60.00	50.00	-30.07	-

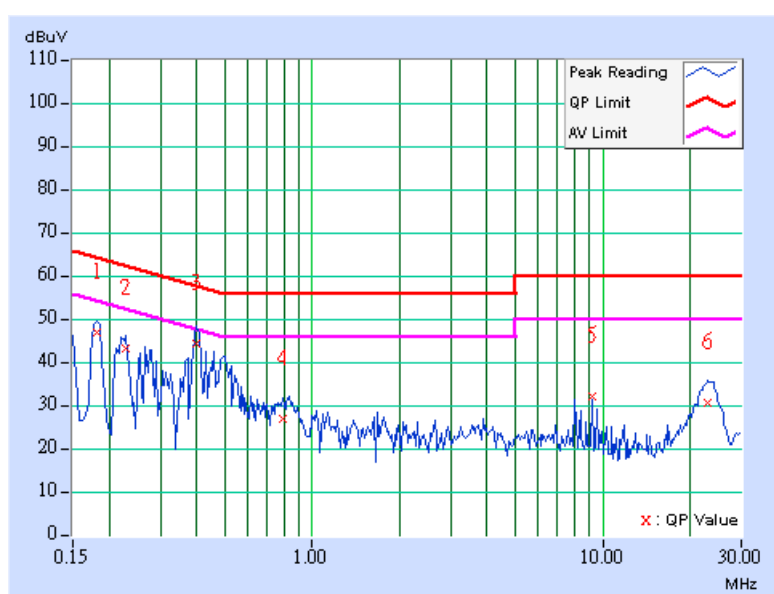
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.181	0.21	46.52	-	46.73	-	64.43	54.43	-17.70	-
2	0.228	0.21	42.89	-	43.10	-	62.52	52.52	-19.42	-
3	0.400	0.21	43.93	-	44.14	-	57.85	47.85	-13.71	-
4	0.795	0.23	26.56	-	26.79	-	56.00	46.00	-29.21	-
5	9.168	0.52	31.76	-	32.28	-	60.00	50.00	-27.72	-
6	23.043	0.54	30.21	-	30.75	-	60.00	50.00	-29.25	-

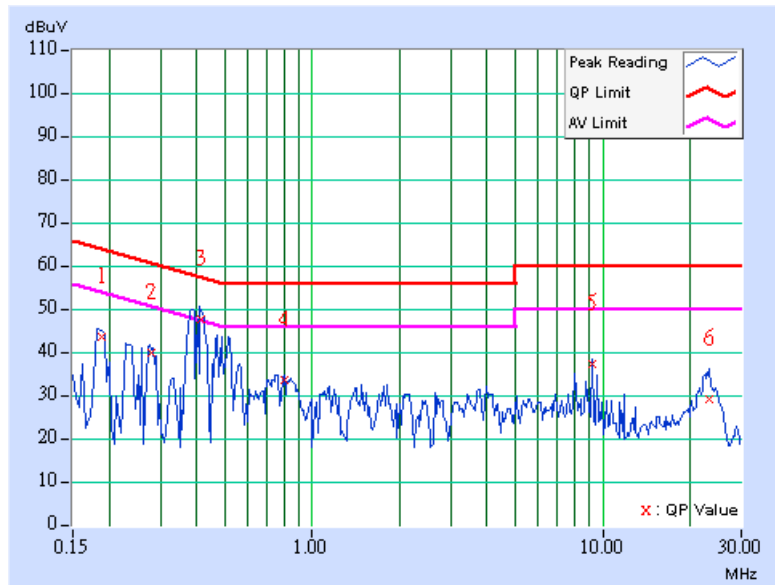
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.189	0.21	42.41	-	42.62	-	64.08	54.08	-21.46	-
2	0.279	0.21	38.87	-	39.08	-	60.85	50.85	-21.77	-
3	0.416	0.21	46.48	-	46.69	-	57.52	47.52	-10.83	-
4	0.798	0.23	32.50	-	32.73	-	56.00	46.00	-23.27	-
5	9.168	0.52	36.27	-	36.79	-	60.00	50.00	-23.21	-
6	23.148	1.29	27.85	-	29.14	-	60.00	50.00	-30.86	-

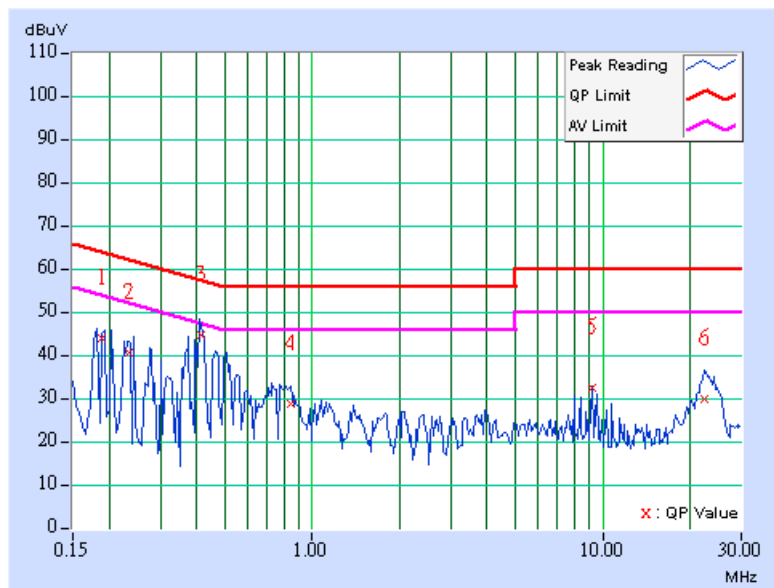
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.188	0.21	43.44	-	43.65	-	64.13	54.13	-20.48	-
2	0.233	0.21	40.20	-	40.41	-	62.33	52.33	-21.92	-
3	0.413	0.21	44.35	-	44.56	-	57.59	47.59	-13.03	-
4	0.841	0.23	28.35	-	28.58	-	56.00	46.00	-27.42	-
5	9.168	0.52	31.90	-	32.42	-	60.00	50.00	-27.58	-
6	22.484	0.54	29.40	-	29.94	-	60.00	50.00	-30.06	-

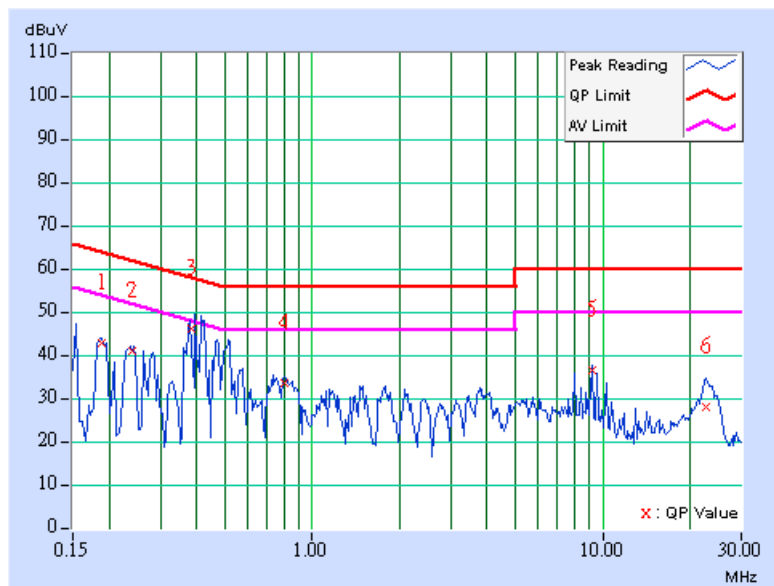
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.189	0.21	41.82	-	42.03	-	64.08	54.08	-22.05	-
2	0.239	0.21	39.93	-	40.14	-	62.14	52.14	-22.00	-
3	0.382	0.21	44.94	-	45.15	-	58.23	48.23	-13.08	-
4	0.802	0.23	32.38	-	32.61	-	56.00	46.00	-23.39	-
5	9.164	0.52	35.50	-	36.02	-	60.00	50.00	-23.98	-
6	22.793	1.26	26.81	-	28.07	-	60.00	50.00	-31.93	-

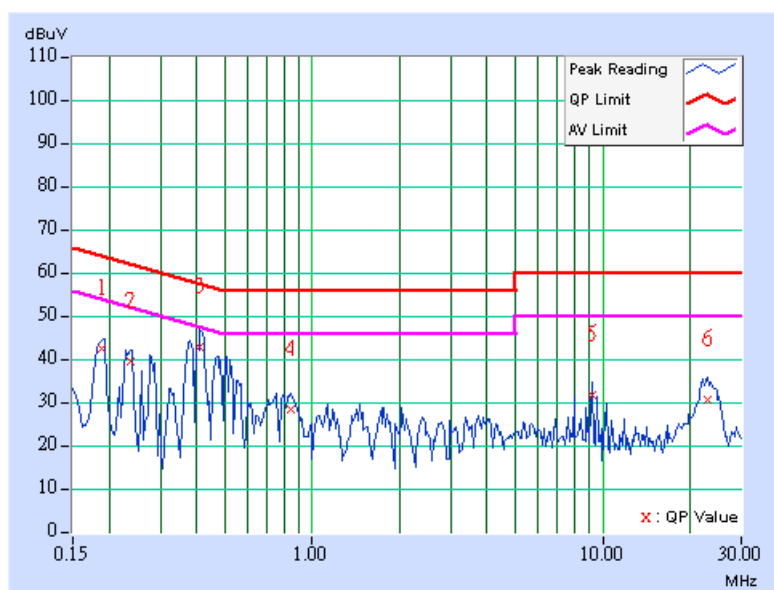
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Match Tsui		

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	0.189	0.21	41.97	-	42.18	-	64.07	54.07	-21.89	-
2	0.236	0.21	39.05	-	39.26	-	62.24	52.24	-22.98	-
3	0.412	0.21	42.52	-	42.73	-	57.61	47.61	-14.88	-
4	0.841	0.23	27.89	-	28.12	-	56.00	46.00	-27.88	-
5	9.164	0.52	31.20	-	31.72	-	60.00	50.00	-28.28	-
6	22.875	0.54	30.05	-	30.59	-	60.00	50.00	-29.41	-

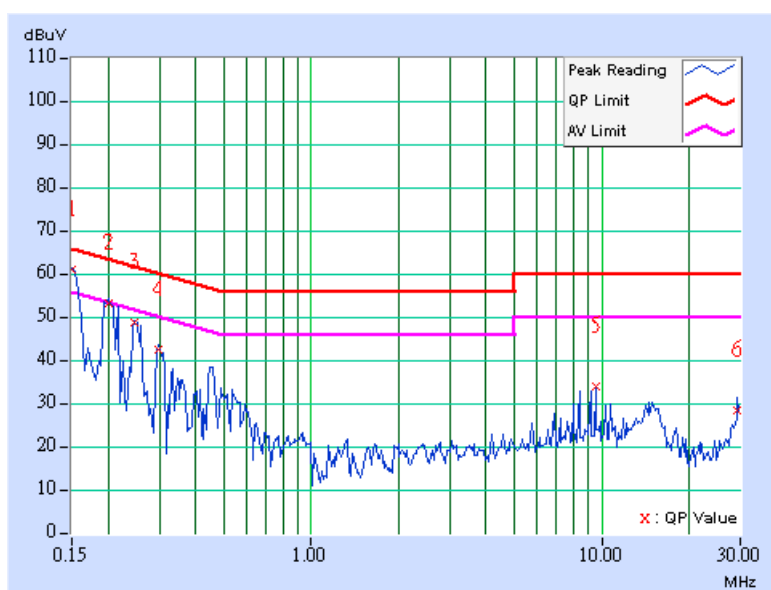
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	59.16	47.12	59.37	47.33	66.00	56.00	-6.63	-8.67
2	0.201	0.21	51.59	-	51.80	-	63.58	53.58	-11.78	-
3	0.248	0.21	46.93	-	47.14	-	61.84	51.84	-14.70	-
4	0.298	0.21	40.85	-	41.06	-	60.29	50.29	-19.23	-
5	9.551	0.53	32.30	-	32.83	-	60.00	50.00	-27.17	-
6	29.418	1.90	26.77	-	28.67	-	60.00	50.00	-31.33	-

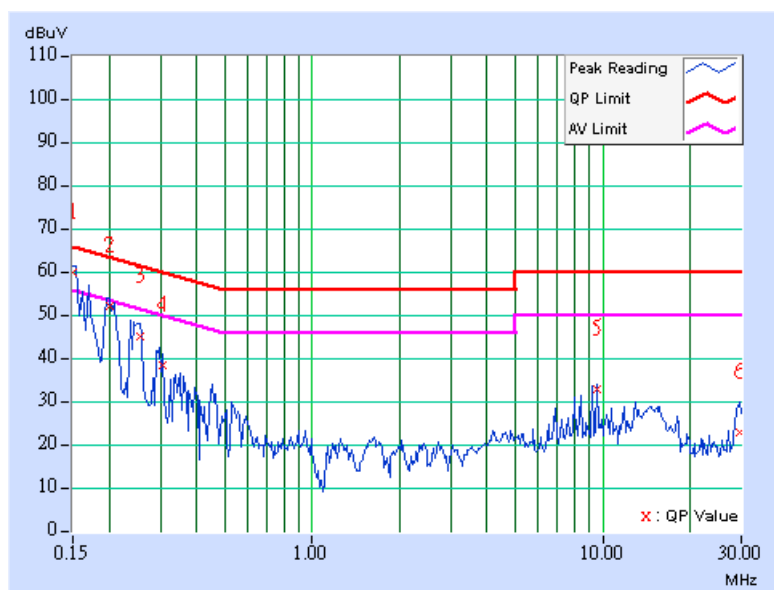
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	59.28	46.79	59.49	47.00	66.00	56.00	-6.51	-9.00
2	0.201	0.21	51.65	-	51.86	-	63.57	53.57	-11.71	-
3	0.255	0.21	44.72	-	44.93	-	61.58	51.58	-16.65	-
4	0.304	0.21	37.95	-	38.16	-	60.14	50.14	-21.98	-
5	9.551	0.53	32.40	-	32.93	-	60.00	50.00	-27.07	-
6	29.578	0.56	22.30	-	22.86	-	60.00	50.00	-37.14	-

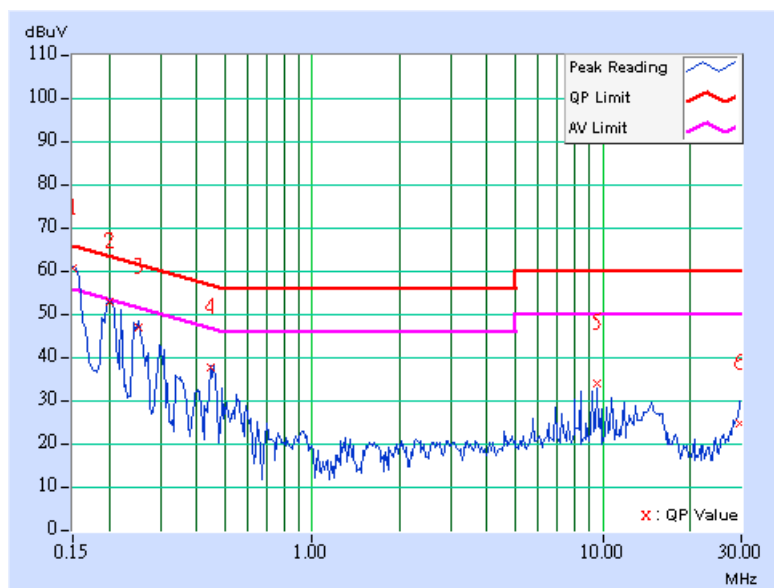
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	58.64	46.45	58.85	46.66	66.00	56.00	-7.15	-9.34
2	0.201	0.21	51.19	-	51.40	-	63.58	53.58	-12.18	-
3	0.252	0.21	45.19	-	45.40	-	61.71	51.71	-16.31	-
4	0.447	0.21	35.67	-	35.88	-	56.93	46.93	-21.05	-
5	9.551	0.53	32.04	-	32.57	-	60.00	50.00	-27.43	-
6	29.801	1.94	22.99	-	24.93	-	60.00	50.00	-35.07	-

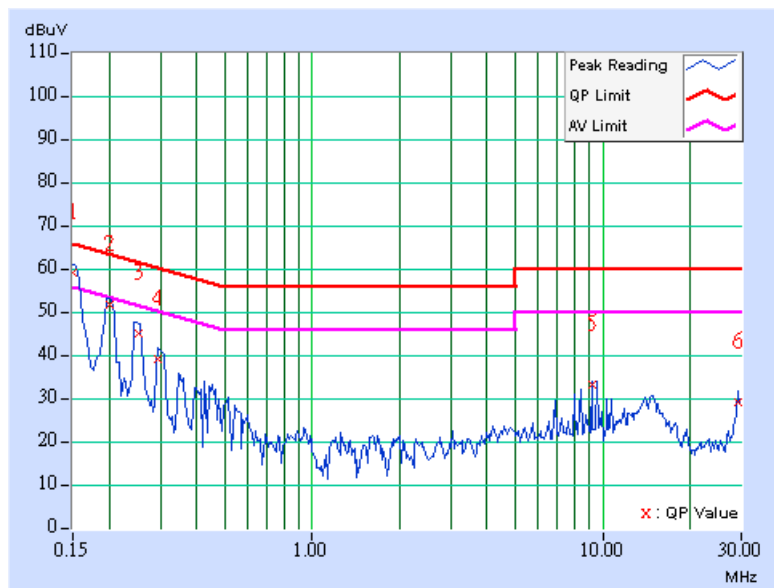
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	58.56	46.19	58.77	46.40	66.00	56.00	-7.23	-9.60
2	0.201	0.21	51.11	-	51.32	-	63.58	53.58	-12.26	-
3	0.252	0.21	44.74	-	44.95	-	61.70	51.70	-16.75	-
4	0.295	0.21	38.73	-	38.94	-	60.40	50.40	-21.46	-
5	9.168	0.52	32.94	-	33.46	-	60.00	50.00	-26.54	-
6	29.414	0.56	28.72	-	29.28	-	60.00	50.00	-30.72	-

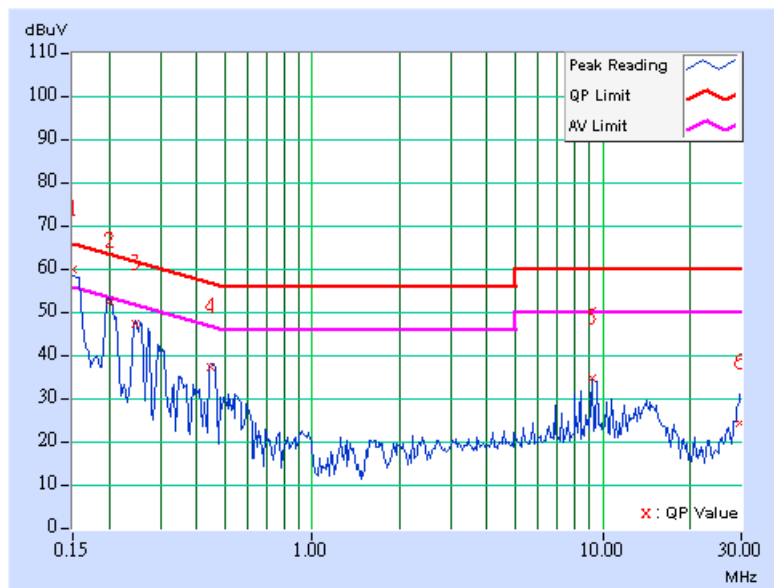
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	58.16	45.76	58.37	45.97	66.00	56.00	-7.63	-10.03
2	0.201	0.21	50.73	-	50.94	-	63.58	53.58	-12.64	-
3	0.248	0.21	45.64	-	45.85	-	61.84	51.84	-15.99	-
4	0.447	0.21	35.51	-	35.72	-	56.93	46.93	-21.21	-
5	9.168	0.52	32.90	-	33.42	-	60.00	50.00	-26.58	-
6	29.660	1.93	22.70	-	24.63	-	60.00	50.00	-35.37	-

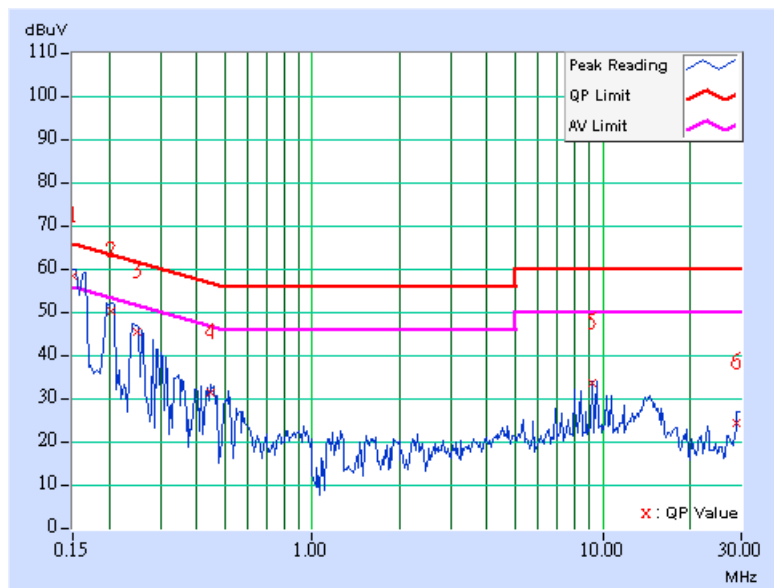
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Match Tsui		

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	0.150	0.21	57.96	45.53	58.17	45.74	66.00	56.00	-7.83	-10.26
2	0.205	0.21	49.82	-	50.03	-	63.42	53.42	-13.39	-
3	0.250	0.21	45.02	-	45.23	-	61.75	51.75	-16.52	-
4	0.447	0.21	30.96	-	31.17	-	56.93	46.93	-25.76	-
5	9.168	0.52	33.02	-	33.54	-	60.00	50.00	-26.46	-
6	29.035	0.56	23.97	-	24.53	-	60.00	50.00	-35.47	-

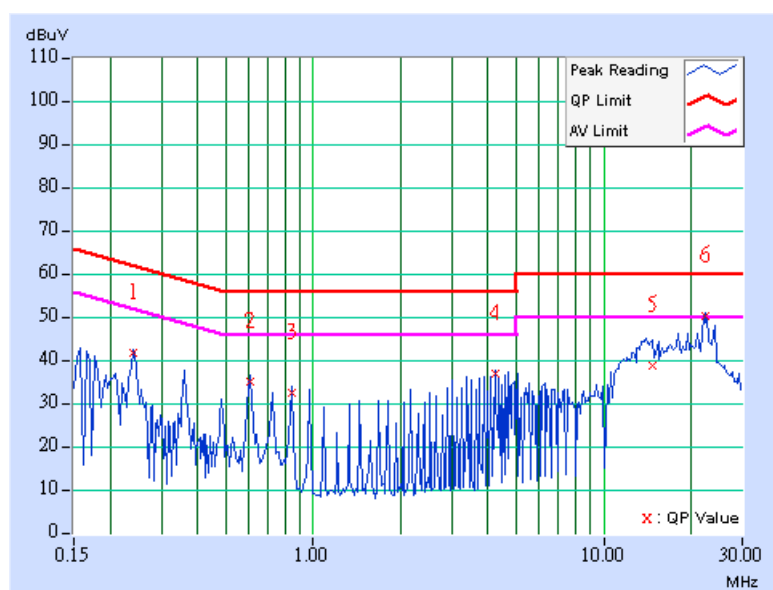
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.241	0.21	40.66	-	40.87	-	62.06	52.06	-21.19	-
2	0.603	0.22	33.80	-	34.02	-	56.00	46.00	-21.98	-
3	0.845	0.23	31.22	-	31.45	-	56.00	46.00	-24.55	-
4	4.232	0.40	35.89	-	36.29	-	56.00	46.00	-19.71	-
5	14.693	0.74	37.54	-	38.28	-	60.00	50.00	-21.72	-
6	22.477	1.24	49.02	47.56	50.26	48.80	60.00	50.00	-9.74	-1.20

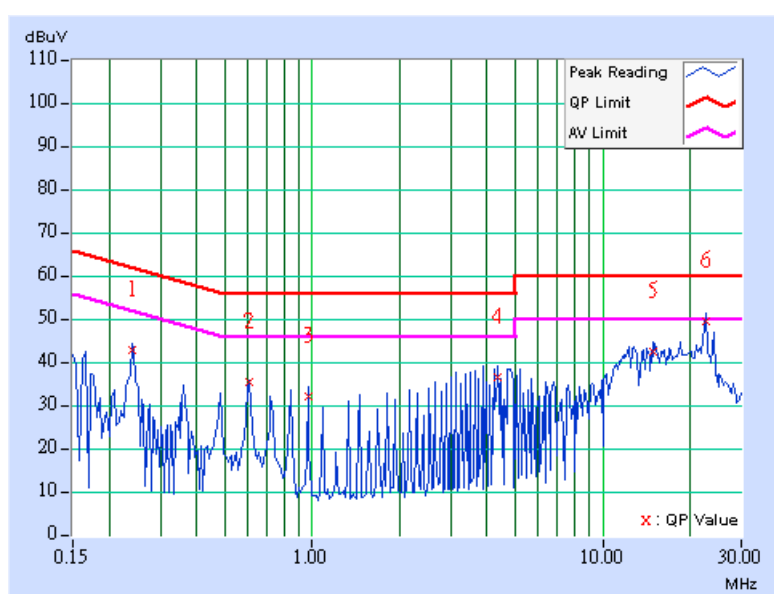
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.240	0.21	42.45	-	42.66	-	62.10	52.10	-19.44	-
2	0.603	0.22	34.89	-	35.11	-	56.00	46.00	-20.89	-
3	0.966	0.24	31.76	-	32.00	-	56.00	46.00	-24.00	-
4	4.344	0.40	36.23	-	36.63	-	56.00	46.00	-19.37	-
5	14.838	0.45	42.04	-	42.49	-	60.00	50.00	-17.51	-
6	22.668	0.54	48.91	-	49.45	-	60.00	50.00	-10.55	-

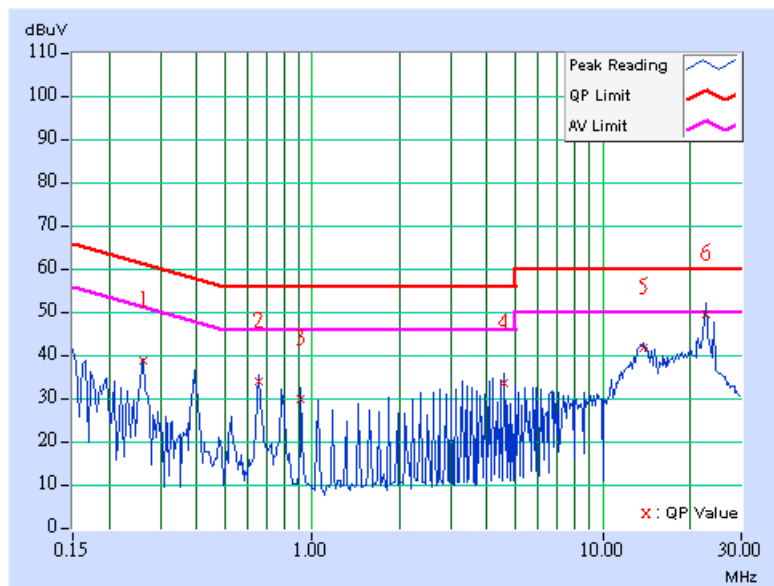
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.263	0.21	37.68	-	37.89	-	61.33	51.33	-23.44	-
2	0.654	0.22	32.87	-	33.09	-	56.00	46.00	-22.91	-
3	0.916	0.24	28.71	-	28.95	-	56.00	46.00	-27.05	-
4	4.586	0.40	32.49	-	32.89	-	56.00	46.00	-23.11	-
5	13.896	0.70	40.65	-	41.35	-	60.00	50.00	-18.65	-
6	22.672	1.25	48.49	-	49.74	-	60.00	50.00	-10.26	-

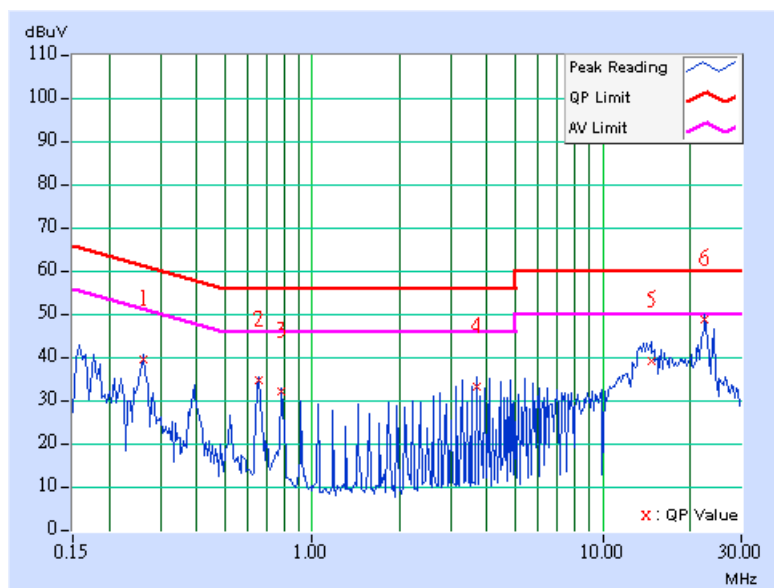
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.263	0.21	39.06	-	39.27	-	61.33	51.33	-22.06	-
2	0.654	0.22	34.15	-	34.37	-	56.00	46.00	-21.63	-
3	0.785	0.23	31.58	-	31.81	-	56.00	46.00	-24.19	-
4	3.664	0.37	32.84	-	33.21	-	56.00	46.00	-22.79	-
5	14.667	0.46	38.66	-	39.12	-	60.00	50.00	-20.88	-
6	22.477	0.54	48.42	-	48.96	-	60.00	50.00	-11.04	-

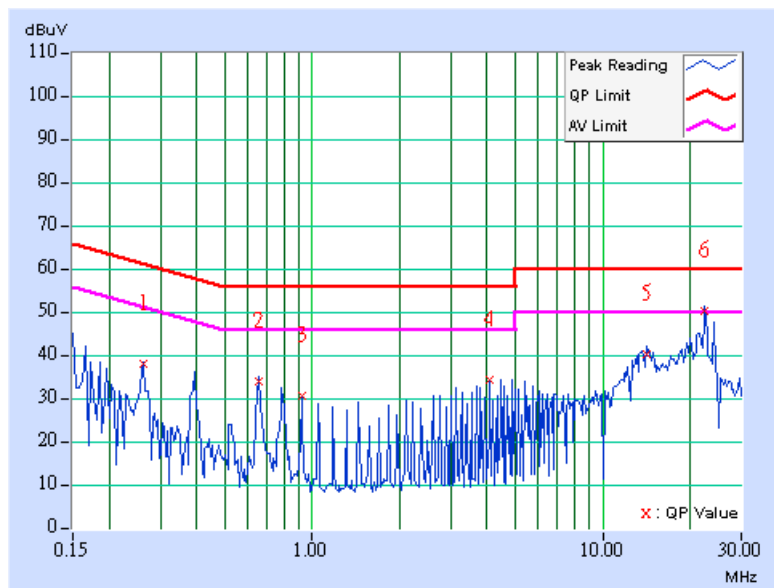
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.263	0.21	36.94	-	37.15	-	61.33	51.33	-24.18	-
2	0.654	0.22	32.77	-	32.99	-	56.00	46.00	-23.01	-
3	0.920	0.24	29.45	-	29.69	-	56.00	46.00	-26.31	-
4	4.066	0.39	33.28	-	33.67	-	56.00	46.00	-22.33	-
5	14.164	0.71	39.13	-	39.84	-	60.00	50.00	-20.16	-
6	22.478	1.24	49.13	47.54	50.37	48.78	60.00	50.00	-9.63	-1.22

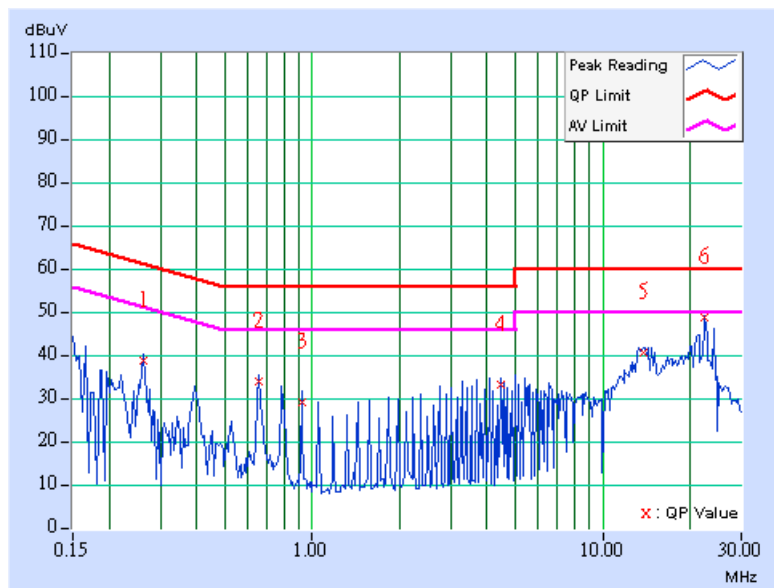
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Match Tsui		

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	0.263	0.21	38.46	-	38.67	-	61.33	51.33	-22.66	-
2	0.654	0.22	33.71	-	33.93	-	56.00	46.00	-22.07	-
3	0.920	0.24	28.77	-	29.01	-	56.00	46.00	-26.99	-
4	4.457	0.40	32.80	-	33.20	-	56.00	46.00	-22.80	-
5	13.769	0.47	40.20	-	40.67	-	60.00	50.00	-19.33	-
6	22.477	0.54	48.42	-	48.96	-	60.00	50.00	-11.04	-

- 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	ESCI	100424	Aug. 04, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Aug. 07, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-153	Jan. 04, 2008
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Jul. 26, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 16, 2008
Preamplifier Agilent	8449B	3008A01911	Sep. 13, 2007
Preamplifier Agilent	8447D	2944A10638	Dec. 20, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218188/218189	Nov. 14, 2007
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 16, 2007
Software	ADT_Radiated_V7.6	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA
Turn Table EMCO	2087-2.03	NA	NA
Antenna Tower & Turn Table Controller EMCO	2090	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 Chamber 9.
 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 IC3789B-9.

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 meters 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 method or average method as specified and then reported in data sheet.

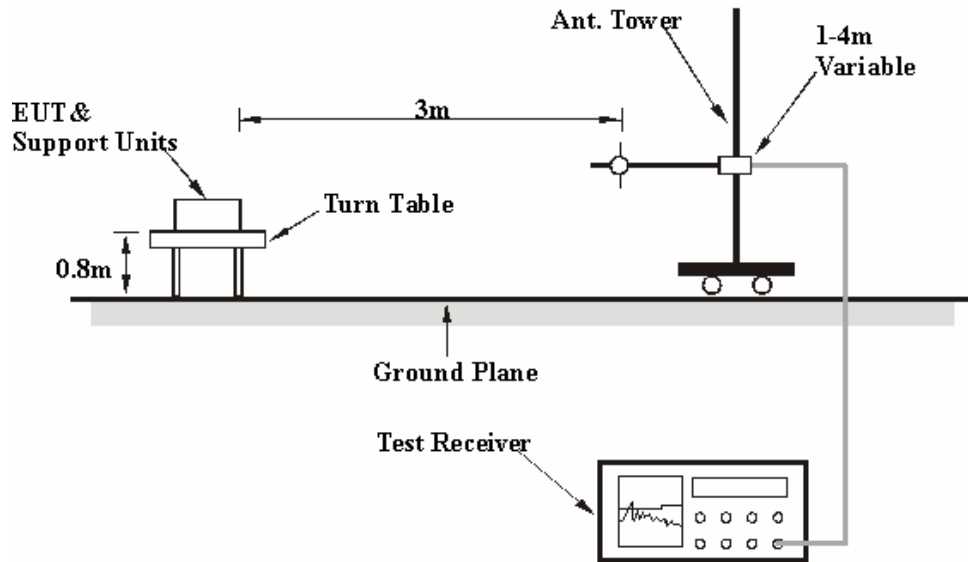
NOTE:

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 of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth are 10Hz 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 attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA: BELOW 1GHZ

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	125.17	40.45 QP	43.50	-3.05	2.00 H	169	28.69	11.76
2	131.00	36.99 QP	43.50	-6.51	2.00 H	349	25.02	11.97
3	200.01	42.44 QP	43.50	-1.06	1.00 H	96	32.12	10.32
4	230.16	38.85 QP	46.00	-7.15	1.50 H	295	27.18	11.67
5	500.42	37.76 QP	46.00	-8.24	1.50 H	124	18.99	18.76
6	700.68	37.38 QP	46.00	-8.62	2.00 H	145	15.37	22.01
7	799.84	39.37 QP	46.00	-6.63	1.00 H	334	15.01	24.36
8	900.94	37.23 QP	46.00	-8.77	2.00 H	136	11.90	25.32

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	125.02	42.42 QP	43.50	-1.08	1.17 V	78	30.67	11.75
2	131.00	42.43 QP	43.50	-1.07	1.00 V	97	30.46	11.97
3	200.01	42.45 QP	43.50	-1.05	1.00 V	19	32.13	10.32
4	500.42	42.44 QP	46.00	-3.56	1.00 V	37	23.68	18.76
5	700.68	41.30 QP	46.00	-4.70	1.50 V	181	19.29	22.01
6	900.94	42.80 QP	46.00	-3.20	2.00 V	187	17.48	25.32

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	B
TESTED BY	Lori Chiu		

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	97.95	36.23 QP	43.50	-7.27	2.50 H	187	27.11	9.12
2	131.00	34.51 QP	43.50	-8.99	2.00 H	229	22.53	11.97
3	173.78	38.98 QP	43.50	-4.52	1.50 H	268	26.51	12.47
4	206.83	42.49 QP	43.50	-1.01	1.50 H	259	31.87	10.62
5	230.16	39.00 QP	46.00	-7.00	1.50 H	298	27.33	11.67
6	500.42	38.00 QP	46.00	-8.00	1.50 H	136	19.24	18.76
7	799.84	38.70 QP	46.00	-7.30	1.00 H	331	14.34	24.36
8	900.94	39.31 QP	46.00	-6.69	1.50 H	271	13.99	25.32

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	131.00	35.19 QP	43.50	-8.31	1.00 V	76	23.22	11.97
2	173.78	34.06 QP	43.50	-9.44	1.00 V	199	21.59	12.47
3	199.05	41.20 QP	43.50	-2.30	1.00 V	79	30.80	10.40
4	230.16	39.40 QP	46.00	-6.60	1.00 V	91	27.74	11.67
5	500.42	41.57 QP	46.00	-4.43	1.00 V	328	22.81	18.76
6	599.58	38.03 QP	46.00	-7.97	1.00 V	352	16.95	21.09
7	624.85	36.09 QP	46.00	-9.91	1.00 V	127	14.77	21.32
8	700.68	39.79 QP	46.00	-6.21	1.50 V	181	17.79	22.01
9	799.84	37.78 QP	46.00	-8.22	1.50 V	145	13.42	24.36
10	900.94	44.52 QP	46.00	-1.48	1.50 V	34	19.20	25.32

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	C
TESTED BY	Lori Chiu		

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	125.17	35.62 QP	43.50	-7.88	2.00 H	151	23.86	11.76
2	131.00	37.10 QP	43.50	-6.40	2.00 H	109	25.12	11.97
3	224.33	38.77 QP	46.00	-7.23	1.50 H	121	27.36	11.40
4	230.16	41.45 QP	46.00	-4.55	1.50 H	154	29.78	11.67
5	500.42	39.30 QP	46.00	-6.70	1.00 H	319	20.54	18.76
6	700.68	37.64 QP	46.00	-8.36	1.00 H	313	15.64	22.01
7	799.84	40.24 QP	46.00	-5.76	1.00 H	151	15.88	24.36
8	900.94	39.30 QP	46.00	-6.70	2.00 H	244	13.98	25.32

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	125.17	39.01 QP	43.50	-4.49	1.00 V	49	27.25	11.76
2	131.00	38.56 QP	43.50	-4.94	1.00 V	58	26.58	11.97
3	224.33	39.16 QP	46.00	-6.84	1.00 V	112	27.76	11.40
4	230.16	41.62 QP	46.00	-4.38	1.00 V	205	29.95	11.67
5	500.42	41.95 QP	46.00	-4.05	1.00 V	154	23.18	18.76
6	599.58	37.09 QP	46.00	-8.91	1.00 V	106	16.00	21.09
7	700.68	37.90 QP	46.00	-8.10	1.50 V	199	15.89	22.01
8	799.84	40.86 QP	46.00	-5.14	1.00 V	205	16.50	24.36
9	900.94	42.20 QP	46.00	-3.80	1.00 V	190	16.88	25.32

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	D
TESTED BY	Lori Chiu		

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	125.17	36.31 QP	43.50	-7.19	2.00 H	136	24.55	11.76
2	131.00	38.20 QP	43.50	-5.30	2.00 H	103	26.23	11.97
3	212.66	42.36 QP	43.50	-1.14	1.00 H	295	31.48	10.88
4	708.46	37.13 QP	46.00	-8.87	2.00 H	280	14.93	22.20
5	799.84	41.85 QP	46.00	-4.15	1.00 H	181	17.49	24.36
6	900.94	40.06 QP	46.00	-5.94	2.00 H	244	14.73	25.32

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	125.17	38.15 QP	43.50	-5.35	1.00 V	34	26.39	11.76
2	131.00	39.72 QP	43.50	-3.78	1.50 V	67	27.74	11.97
3	216.55	43.99 QP	46.00	-2.01	1.00 V	121	32.94	11.06
4	249.60	42.02 QP	46.00	-3.98	1.00 V	292	29.49	12.54
5	500.42	40.54 QP	46.00	-5.46	1.00 V	244	21.78	18.76
6	700.68	39.20 QP	46.00	-6.80	1.50 V	205	17.19	22.01
7	799.84	39.92 QP	46.00	-6.08	2.00 V	193	15.56	24.36
8	900.94	43.47 QP	46.00	-2.53	1.00 V	178	18.14	25.32

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	E
TESTED BY	Lori Chiu		

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	131.00	39.45 QP	43.50	-4.05	2.00 H	271	27.47	11.97
2	200.02	42.41 QP	43.50	-1.09	1.27 H	237	32.09	10.32
3	230.16	39.70 QP	46.00	-6.30	1.50 H	334	28.03	11.67
4	500.42	42.32 QP	46.00	-3.68	1.50 H	148	23.56	18.76
5	599.58	37.45 QP	46.00	-8.55	1.50 H	133	16.36	21.09
6	799.84	39.62 QP	46.00	-6.38	1.00 H	139	15.25	24.36
7	900.94	40.45 QP	46.00	-5.55	1.00 H	142	15.13	25.32

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	57.12	33.99 QP	40.00	-6.01	1.50 V	343	20.61	13.38
2	131.00	35.13 QP	43.50	-8.37	1.50 V	4	23.16	11.97
3	199.05	39.83 QP	43.50	-3.67	1.00 V	208	29.43	10.40
4	500.42	41.46 QP	46.00	-4.54	1.50 V	133	22.70	18.76
5	599.58	38.74 QP	46.00	-7.26	1.00 V	334	17.65	21.09
6	700.68	37.16 QP	46.00	-8.84	1.50 V	190	15.15	22.01
7	799.84	39.72 QP	46.00	-6.28	1.00 V	190	15.36	24.36
8	900.94	42.91 QP	46.00	-3.09	1.00 V	190	17.59	25.32

- 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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24 deg. C, 70%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	F
TESTED BY	Lori Chiu		

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	76.56	34.08 QP	40.00	-5.92	2.00 H	133	24.98	9.10
2	199.05	34.82 QP	43.50	-8.68	1.00 H	283	24.42	10.40
3	500.42	40.05 QP	46.00	-5.95	1.50 H	109	21.29	18.76
4	700.68	36.12 QP	46.00	-9.88	1.00 H	169	14.12	22.01
5	799.84	38.74 QP	46.00	-7.26	1.00 H	334	14.38	24.36
6	900.94	37.41 QP	46.00	-8.59	2.00 H	142	12.09	25.32

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	41.57	37.50 QP	40.00	-2.50	1.00 V	157	25.20	12.30
2	78.21	38.19 QP	40.00	-1.81	1.00 V	206	29.67	8.52
3	249.60	36.65 QP	46.00	-9.35	1.00 V	88	24.12	12.54
4	500.42	44.35 QP	46.00	-1.65	1.00 V	199	25.59	18.76
5	599.58	37.98 QP	46.00	-8.02	1.00 V	334	16.89	21.09
6	700.68	40.03 QP	46.00	-5.97	1.50 V	187	18.02	22.01
7	799.84	39.49 QP	46.00	-6.51	1.50 V	205	15.13	24.36
8	900.94	44.63 QP	46.00	-1.37	1.50 V	184	19.30	25.32

- 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.

802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	54.66 PK	74.00	-19.34	1.21 H	125	23.44	31.22
2	2390.00	44.26 AV	54.00	-9.74	1.21 H	125	13.04	31.22
3	*2412.00	92.28 PK			1.21 H	125	61.07	31.21
4	*2412.00	85.89 AV			1.21 H	125	54.68	31.21
5	2495.00	59.04 PK	74.00	-14.96	1.25 H	210	27.80	31.24
6	2495.00	47.46 AV	54.00	-6.54	1.25 H	210	16.22	31.24
7	4824.00	46.90 PK	74.00	-27.10	1.15 H	297	10.42	36.48
8	4824.00	39.89 AV	54.00	-14.11	1.15 H	297	3.41	36.48

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	1608.00	54.82 PK	74.00	-19.18	1.00 V	17	27.07	27.75
2	1608.00	46.61 AV	54.00	-7.39	1.00 V	17	18.86	27.75
3	2390.00	55.70 PK	74.00	-18.30	1.00 V	164	24.48	31.22
4	2390.00	45.83 AV	54.00	-8.17	1.00 V	164	14.61	31.22
5	*2412.00	103.06 PK			1.00 V	165	71.85	31.21
6	*2412.00	98.72 AV			1.00 V	165	67.51	31.21
7	2495.00	62.94 PK	74.00	-11.06	1.00 V	161	31.70	31.24
8	2495.00	52.95 AV	54.00	-1.05	1.00 V	161	21.71	31.24
9	4824.00	52.70 PK	74.00	-21.30	1.02 V	143	16.22	36.48
10	4824.00	50.31 AV	54.00	-3.69	1.02 V	143	13.83	36.48

- 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. “ * “ : Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	2357.00	56.91 PK	74.00	-17.09	1.11 H	305	25.66	31.25
2	2357.00	46.83 AV	54.00	-7.17	1.11 H	305	15.58	31.25
3	*2437.00	98.00 PK			1.10 H	265	66.78	31.22
4	*2437.00	92.12 AV			1.10 H	265	60.90	31.22
5	4874.00	47.57 PK	74.00	-26.43	1.33 H	267	10.99	36.58
6	4874.00	43.28 AV	54.00	-10.72	1.33 H	267	6.70	36.58

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	1624.00	56.33 PK	74.00	-17.67	1.00 V	19	28.59	27.74
2	1624.00	49.41 AV	54.00	-4.59	1.00 V	19	21.67	27.74
3	2357.00	61.54 PK	74.00	-12.46	1.00 V	163	30.29	31.25
4	2357.00	52.06 AV	54.00	-1.94	1.00 V	163	20.81	31.25
5	*2437.00	109.26 PK			1.12 V	232	78.04	31.22
6	*2437.00	104.68 AV			1.12 V	232	73.46	31.22
7	4874.00	54.08 PK	74.00	-19.92	1.36 V	236	17.50	36.58
8	4874.00	52.58 AV	54.00	-1.42	1.36 V	236	16.00	36.58
9	7311.00	58.04 PK	74.00	-15.96	1.09 V	36	15.03	43.02
10	7311.00	50.53 AV	54.00	-3.47	1.09 V	36	7.52	43.02

- 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. “ * “ : Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	2383.00	56.89 PK	74.00	-17.11	1.37 H	322	25.66	31.23
2	2383.00	46.08 AV	54.00	-7.92	1.37 H	322	14.85	31.23
3	*2462.00	98.20 PK			1.05 H	318	66.97	31.23
4	*2462.00	93.52 AV			1.05 H	318	62.29	31.23
5	2487.00	56.31 PK	74.00	-17.69	1.05 H	318	25.07	31.24
6	2487.00	45.56 AV	54.00	-8.44	1.05 H	318	14.32	31.24
7	4924.00	48.96 PK	74.00	-25.04	1.24 H	258	12.28	36.68
8	4924.00	43.40 AV	54.00	-10.60	1.24 H	258	6.72	36.68

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	1641.00	56.89 PK	89.91	-33.02	1.32 V	33	29.16	27.73
2	1641.00	49.78 AV	85.26	-35.48	1.32 V	33	22.05	27.73
3	2383.00	60.90 PK	74.00	-13.10	1.00 V	164	29.67	31.23
4	2383.00	51.93 AV	54.00	-2.07	1.00 V	164	20.70	31.23
5	*2462.00	109.91 PK			1.21 V	160	78.68	31.23
6	*2462.00	105.26 AV			1.21 V	160	74.03	31.23
7	2487.00	61.88 PK	74.00	-12.12	1.21 V	162	30.64	31.24
8	2487.00	50.97 AV	54.00	-3.03	1.21 V	162	19.73	31.24
9	4924.00	54.69 PK	74.00	-19.31	1.12 V	139	18.01	36.68
10	4924.00	52.30 AV	54.00	-1.70	1.12 V	139	15.62	36.68
11	7386.00	56.26 PK	74.00	-17.74	1.00 V	38	13.19	43.08
12	7386.00	48.13 AV	54.00	-5.87	1.00 V	38	5.06	43.08

- 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.
 5. “ * ” : Fundamental frequency.



802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	55.45 PK	74.00	-18.55	1.13 H	350	24.23	31.22
2	2390.00	44.99 AV	54.00	-9.01	1.13 H	350	13.77	31.22
3	*2412.00	97.27 PK			1.13 H	247	66.06	31.21
4	*2412.00	87.20 AV			1.13 H	247	55.99	31.21
5	2496.00	56.94 PK	74.00	-17.06	1.16 H	326	25.70	31.24
6	2496.00	46.10 AV	54.00	-7.90	1.16 H	326	14.86	31.24
7	4824.00	47.11 PK	74.00	-26.89	1.35 H	4	10.63	36.48
8	4824.00	33.23 AV	54.00	-20.77	1.35 H	4	-3.25	36.48

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	1608.00	51.11 PK	74.00	-22.89	1.00 V	14	23.36	27.75
2	1608.00	36.40 AV	54.00	-17.60	1.00 V	14	8.65	27.75
3	2338.00	59.54 PK	74.00	-14.46	1.00 V	165	28.27	31.27
4	2338.00	48.00 AV	54.00	-6.00	1.00 V	165	16.73	31.27
5	2390.00	64.93 PK	74.00	-9.07	1.26 V	169	33.71	31.22
6	2390.00	48.72 AV	54.00	-5.28	1.26 V	169	17.50	31.22
7	*2412.00	108.06 PK			1.00 V	163	76.85	31.21
8	*2412.00	98.10 AV			1.00 V	163	66.89	31.21
9	2496.00	64.93 PK	74.00	-9.07	1.00 V	163	33.69	31.24
10	2496.00	52.92 AV	54.00	-1.08	1.00 V	163	21.68	31.24
11	4824.00	53.87 PK	74.00	-20.13	1.00 V	139	17.39	36.48
12	4824.00	39.26 AV	54.00	-14.74	1.00 V	139	2.78	36.48

- 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. “ * “ : Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	2355.00	55.45 PK	74.00	-18.55	1.23 H	210	24.20	31.25
2	2355.00	44.93 AV	54.00	-9.07	1.23 H	210	13.68	31.25
3	*2437.00	99.67 PK			1.21 H	199	68.45	31.22
4	*2437.00	89.58 AV			1.21 H	199	58.36	31.22
5	4874.00	50.50 PK	74.00	-23.50	1.01 H	357	13.92	36.58
6	4874.00	36.69 AV	54.00	-17.31	1.01 H	357	0.11	36.58

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	1624.00	54.16 PK	74.00	-19.84	1.42 V	355	26.42	27.74
2	1624.00	38.89 AV	54.00	-15.11	1.42 V	355	11.15	27.74
3	2355.00	63.04 PK	74.00	-10.96	1.15 V	240	31.79	31.25
4	2355.00	50.05 AV	54.00	-3.95	1.15 V	240	18.80	31.25
5	*2437.00	109.42 PK			1.14 V	232	78.20	31.22
6	*2437.00	99.59 AV			1.14 V	232	68.37	31.22
7	4874.00	56.87 PK	74.00	-17.13	1.00 V	236	20.29	36.58
8	4874.00	42.25 AV	54.00	-11.75	1.00 V	236	5.67	36.58

- 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. “ * “ : Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak(PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23 deg. C, 72%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Lori Chiu		

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	2388.00	54.26 PK	74.00	-19.74	1.00 H	201	23.04	31.22
2	2388.00	44.34 AV	54.00	-9.66	1.00 H	201	13.12	31.22
3	*2462.00	98.64 PK			1.14 H	223	67.41	31.23
4	*2462.00	88.25 AV			1.14 H	223	57.02	31.23
5	2483.50	56.84 PK	74.00	-17.16	1.14 H	233	25.60	31.24
6	2483.50	46.45 AV	54.00	-7.55	1.14 H	233	15.21	31.24
7	4924.00	49.77 PK	74.00	-24.23	1.00 H	32	13.09	36.68
8	4924.00	35.48 AV	54.00	-18.52	1.00 H	32	-1.20	36.68

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	1641.00	52.82 PK	88.81	-35.99	1.02 V	100	25.09	27.73
2	1641.00	37.57 AV	78.65	-41.08	1.02 V	100	9.84	27.73
3	2388.00	60.31 PK	74.00	-13.69	1.14 V	257	29.09	31.22
4	2388.00	47.96 AV	54.00	-6.04	1.14 V	257	16.74	31.22
5	*2462.00	108.81 PK			1.12 V	256	77.58	31.23
6	*2462.00	98.65 AV			1.12 V	256	67.42	31.23
7	2483.50	69.76 PK	74.00	-4.24	1.10 V	242	38.52	31.24
8	2483.50	52.47 AV	54.00	-1.53	1.10 V	242	21.23	31.24
9	4924.00	55.46 PK	74.00	-18.54	1.33 V	240	18.78	36.68
10	4924.00	41.02 AV	54.00	-12.98	1.33 V	240	4.34	36.68

- 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. “ * “ : 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	FSP 40	100040	Jun. 07, 2007

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

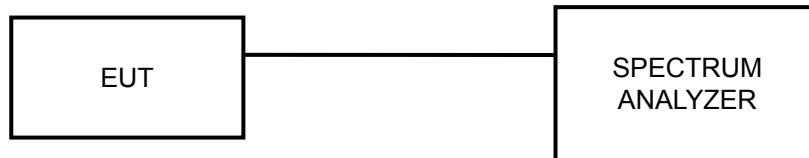
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz 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



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

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.



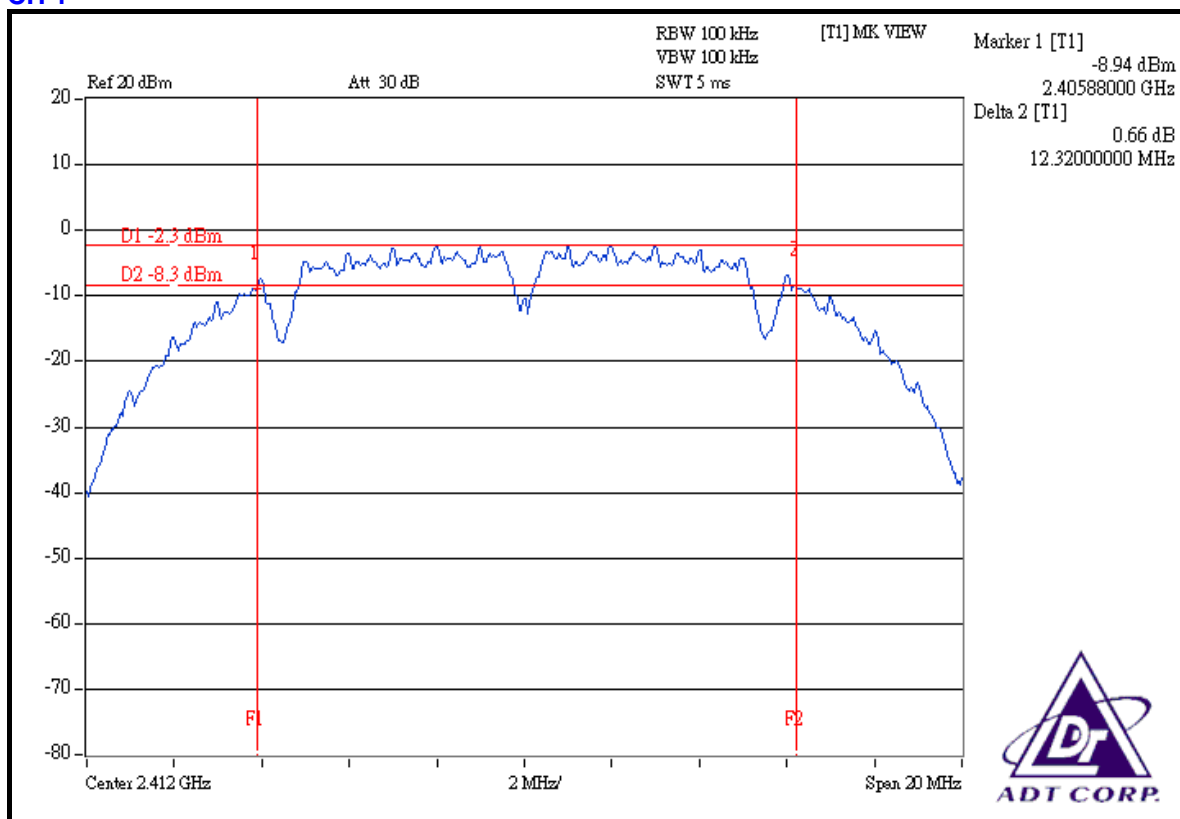
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

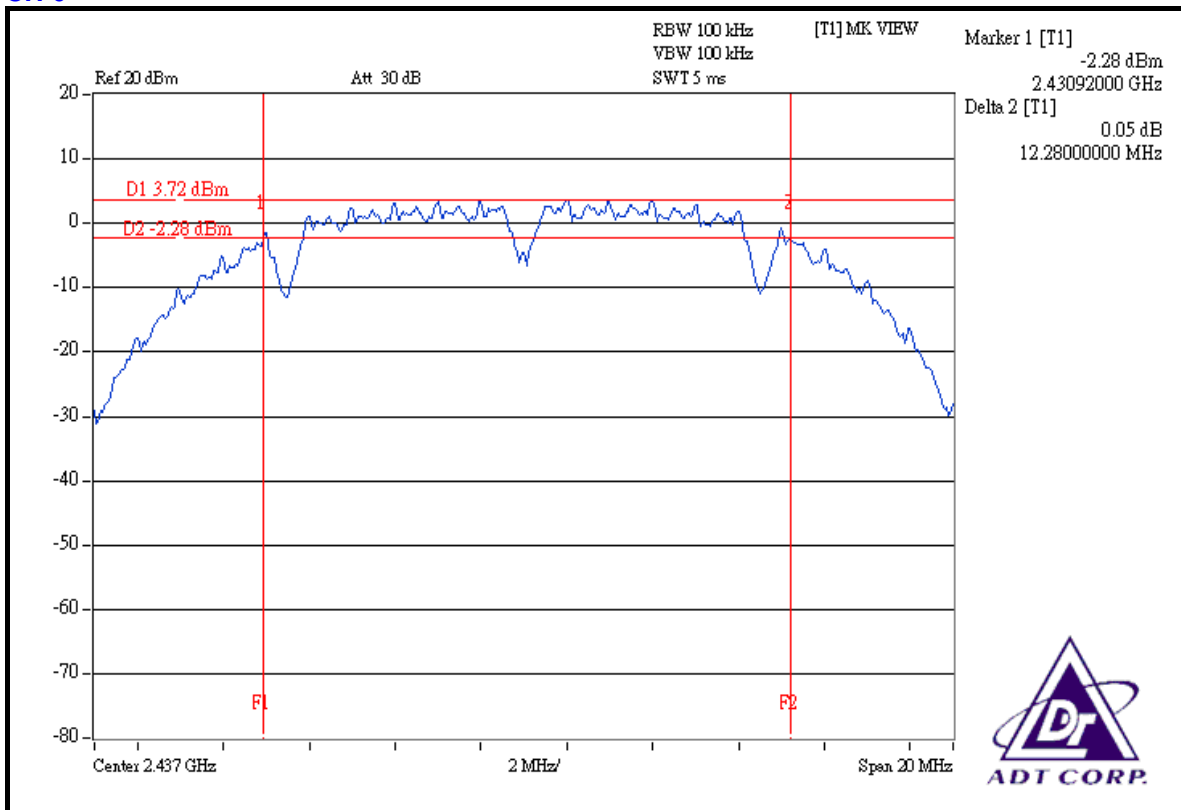
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	12.32	0.5	PASS
6	2437	12.28	0.5	PASS
11	2462	12.28	0.5	PASS

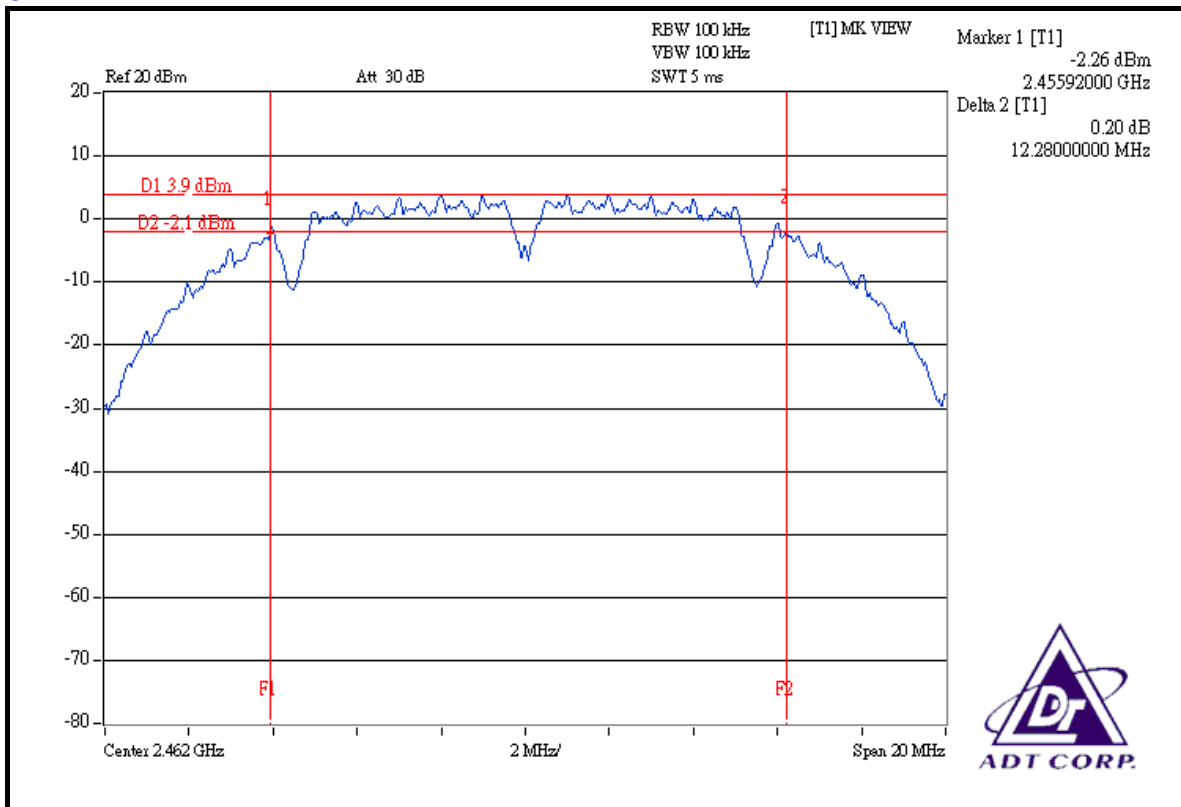
CH 1



CH 6



CH 11



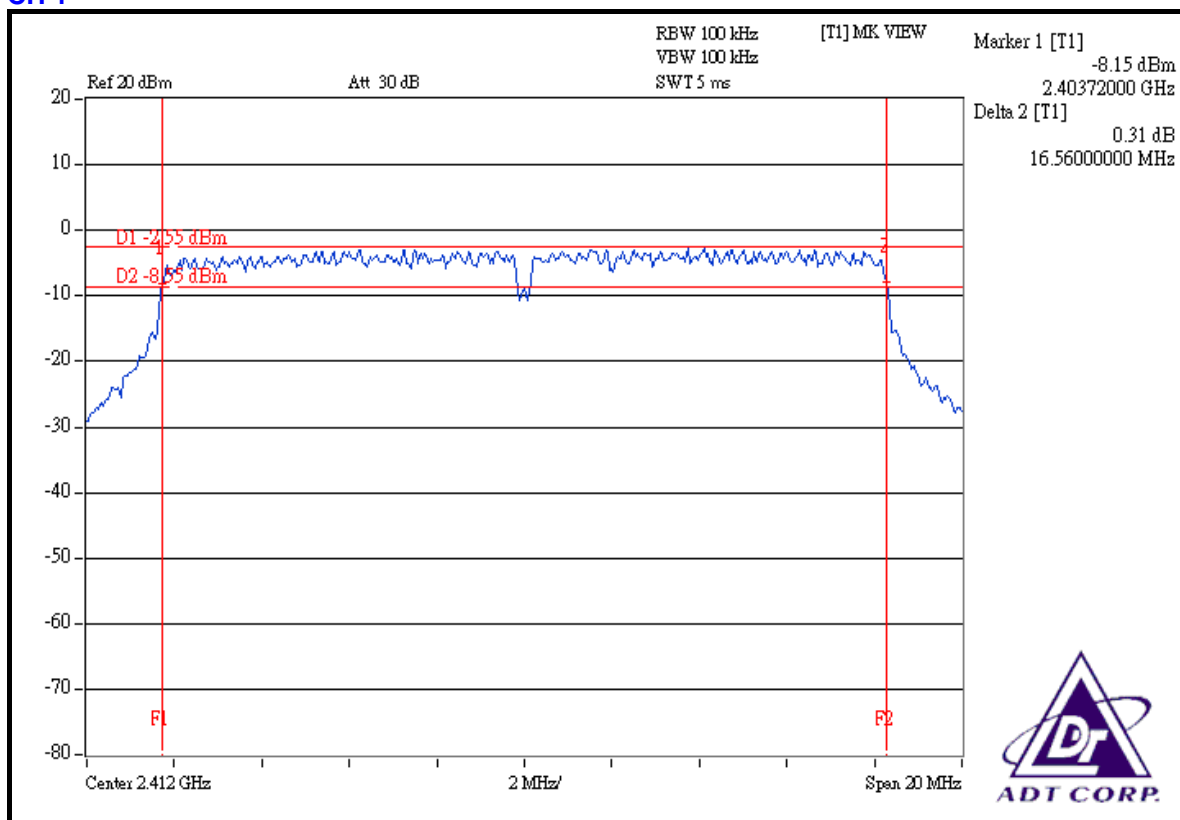


802.11g OFDM MODULATION

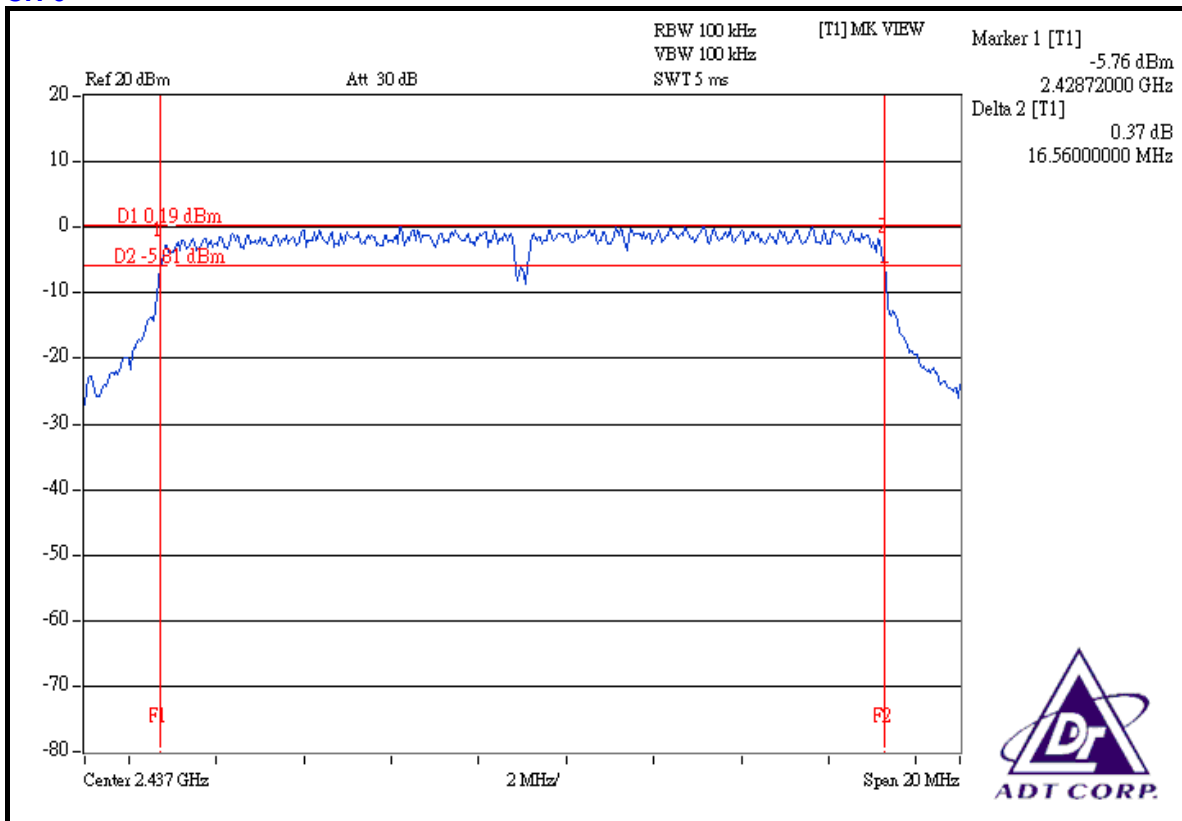
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.56	0.5	PASS
6	2437	16.56	0.5	PASS
11	2462	16.56	0.5	PASS

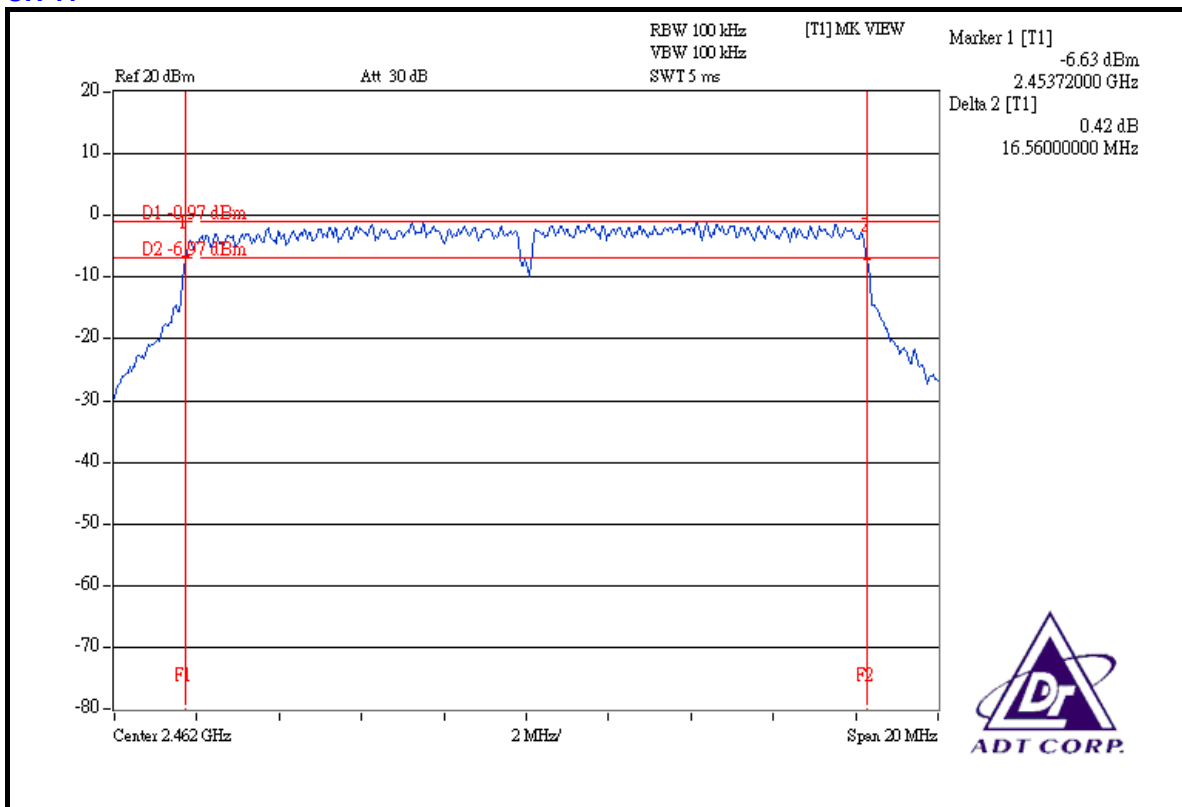
CH 1



CH 6



CH 11





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007
R&S SIGNAL GENERATOR	SML03	102843	Aug. 31, 2007
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2007
NARDA DETECTOR	4503A	FSCM99899	NA

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

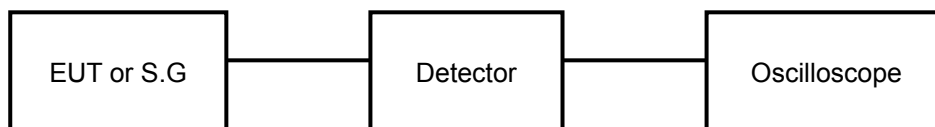
4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to peak 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 peak reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.



4.4.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	14.158	11.51	30	PASS
6	2437	57.280	17.58	30	PASS
11	2462	64.121	18.07	30	PASS

802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	50.350	17.02	30	PASS
6	2437	80.353	19.05	30	PASS
11	2462	63.241	18.01	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	FSP 40	100040	Jun. 07, 2007

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

4.5.3 TEST PROCEDURE

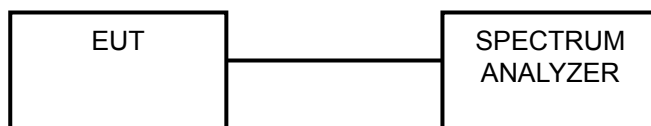
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6.



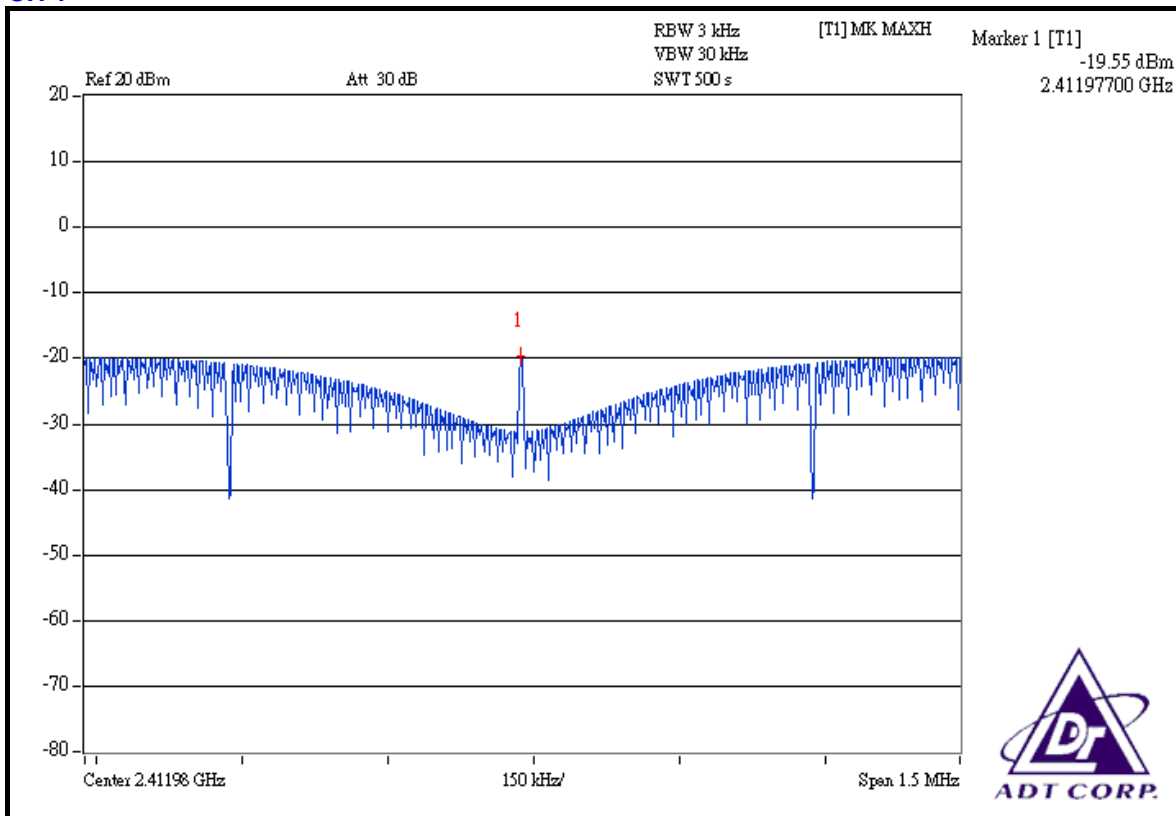
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-19.55	8	PASS
6	2437	-13.49	8	PASS
11	2462	-13.14	8	PASS

CH 1



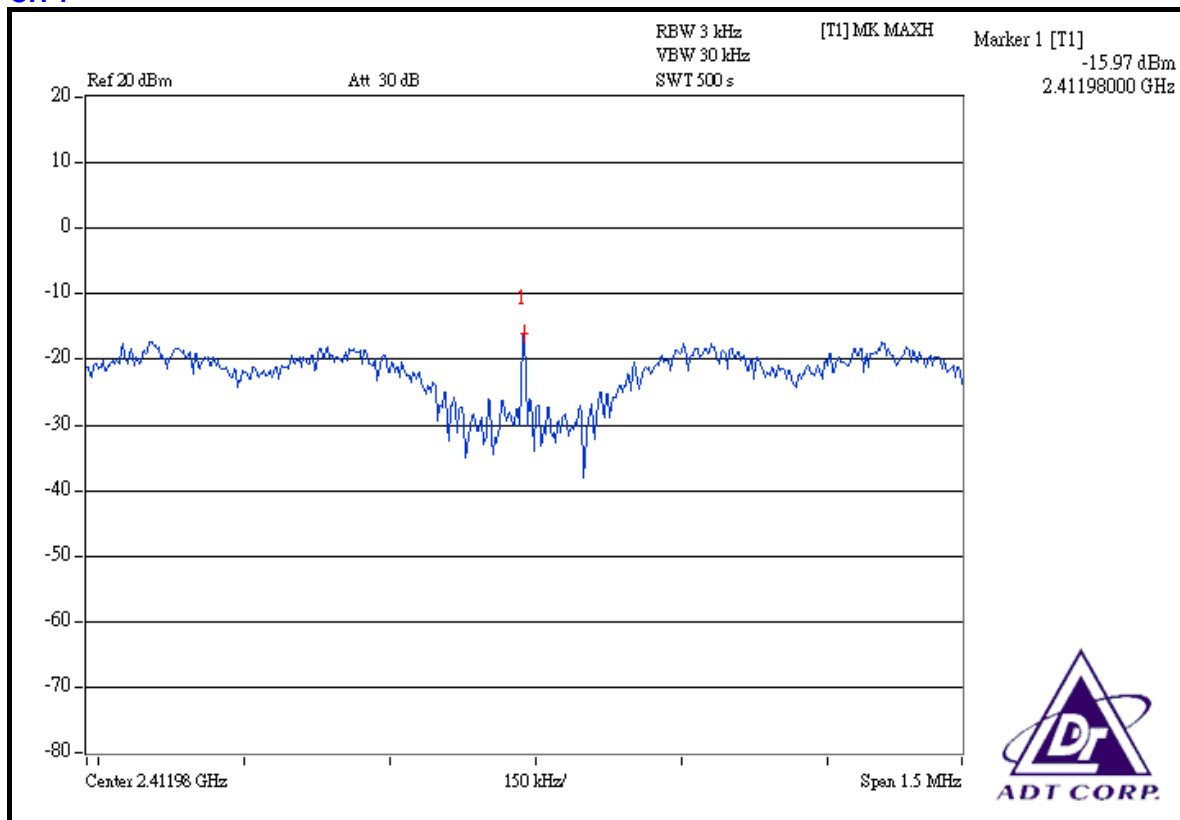


802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 65%RH, 991hPa
TESTED BY	Match Tsui		

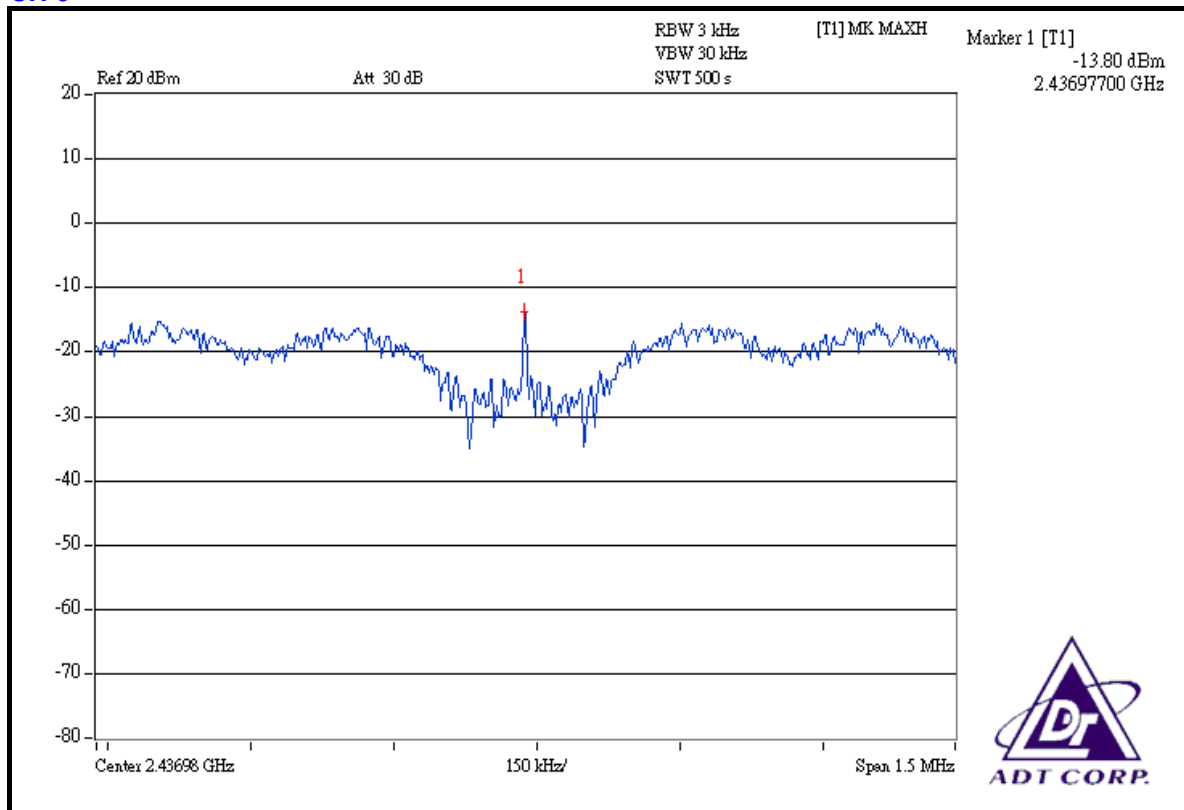
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-15.97	8	PASS
6	2437	-13.80	8	PASS
11	2462	-14.88	8	PASS

CH 1

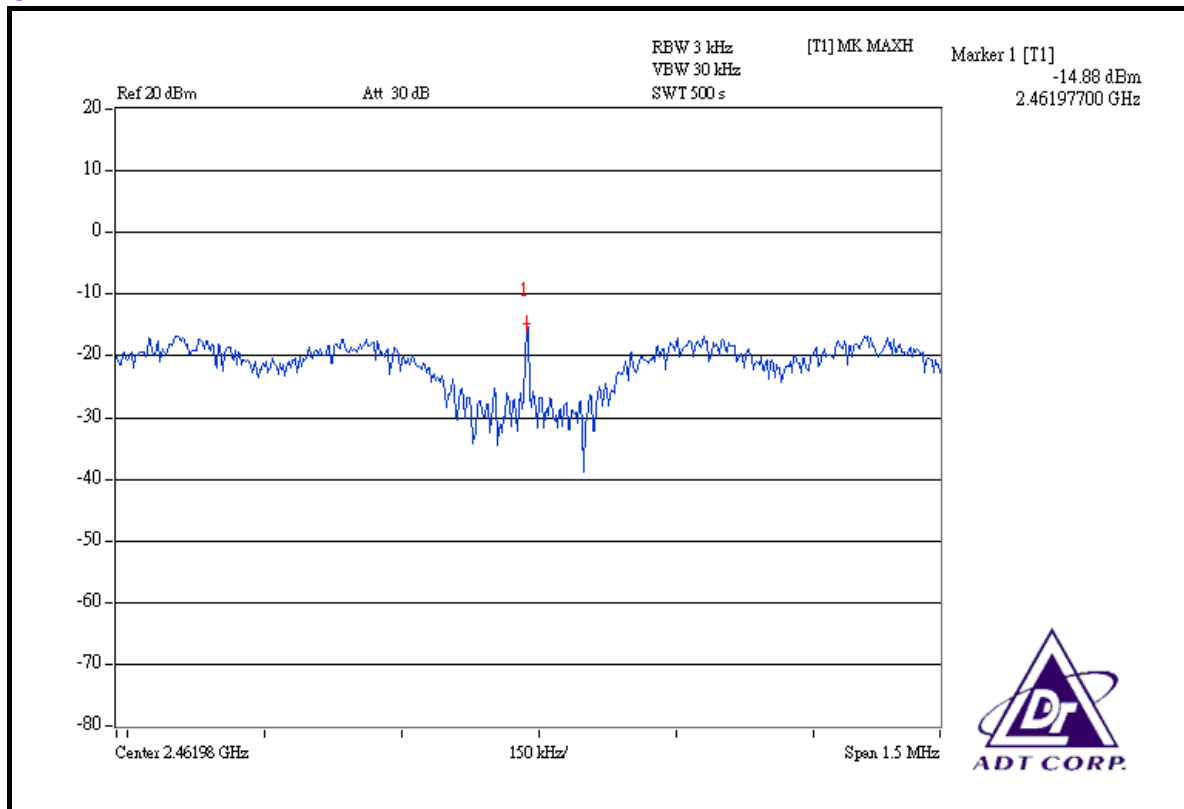




CH 6



CH 11





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

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 loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges were 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 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).

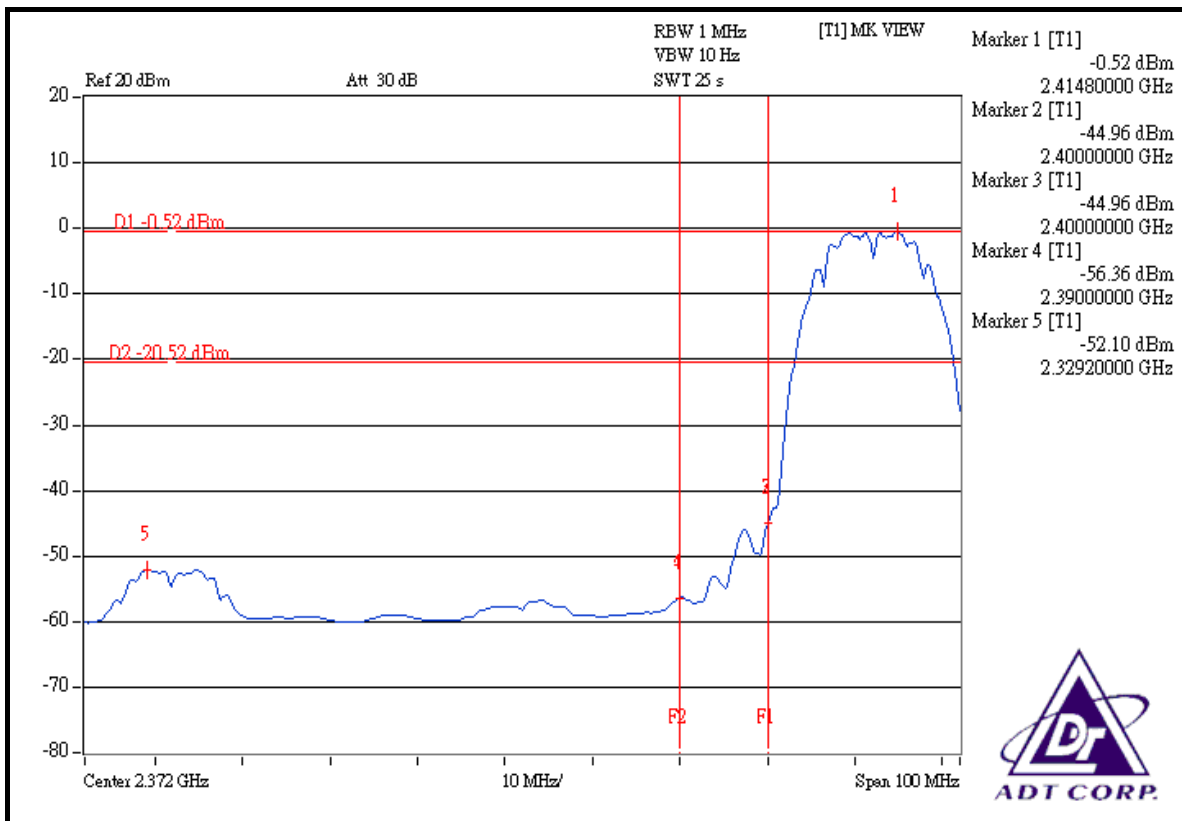
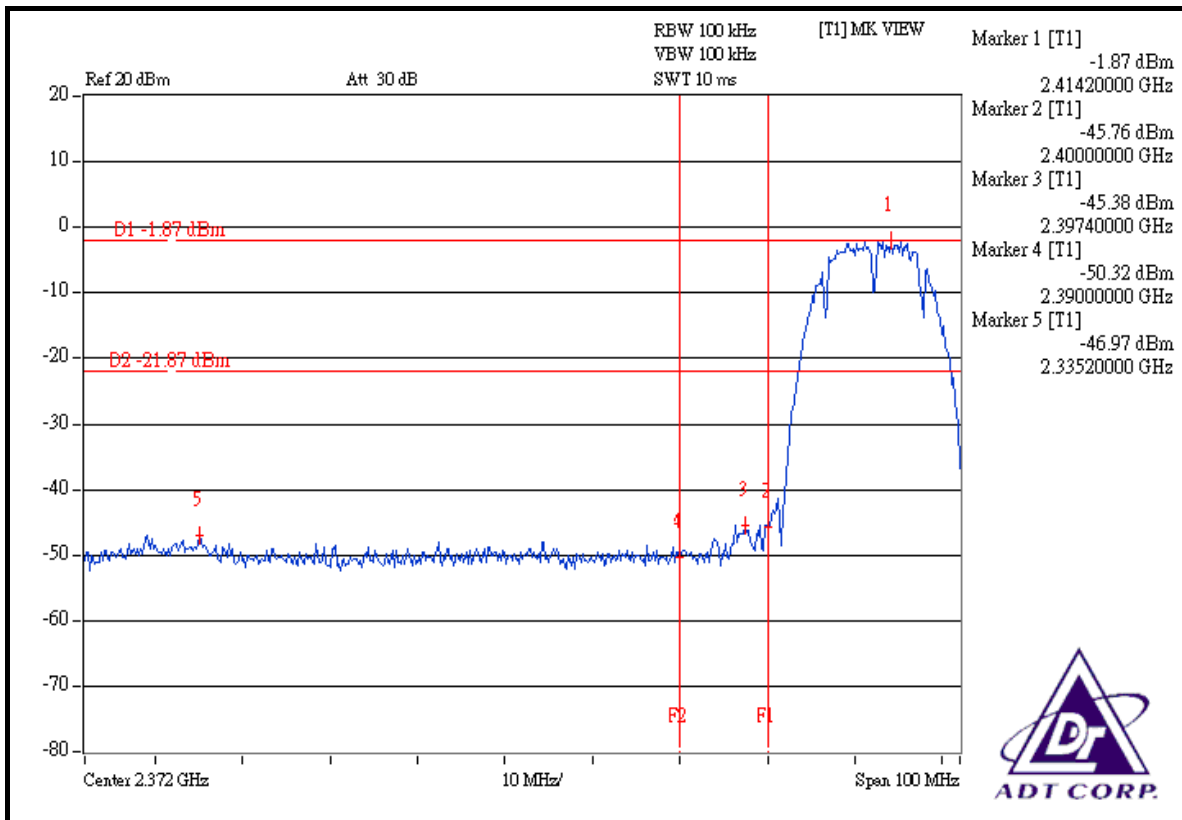
802.11b DSSS MODULATION

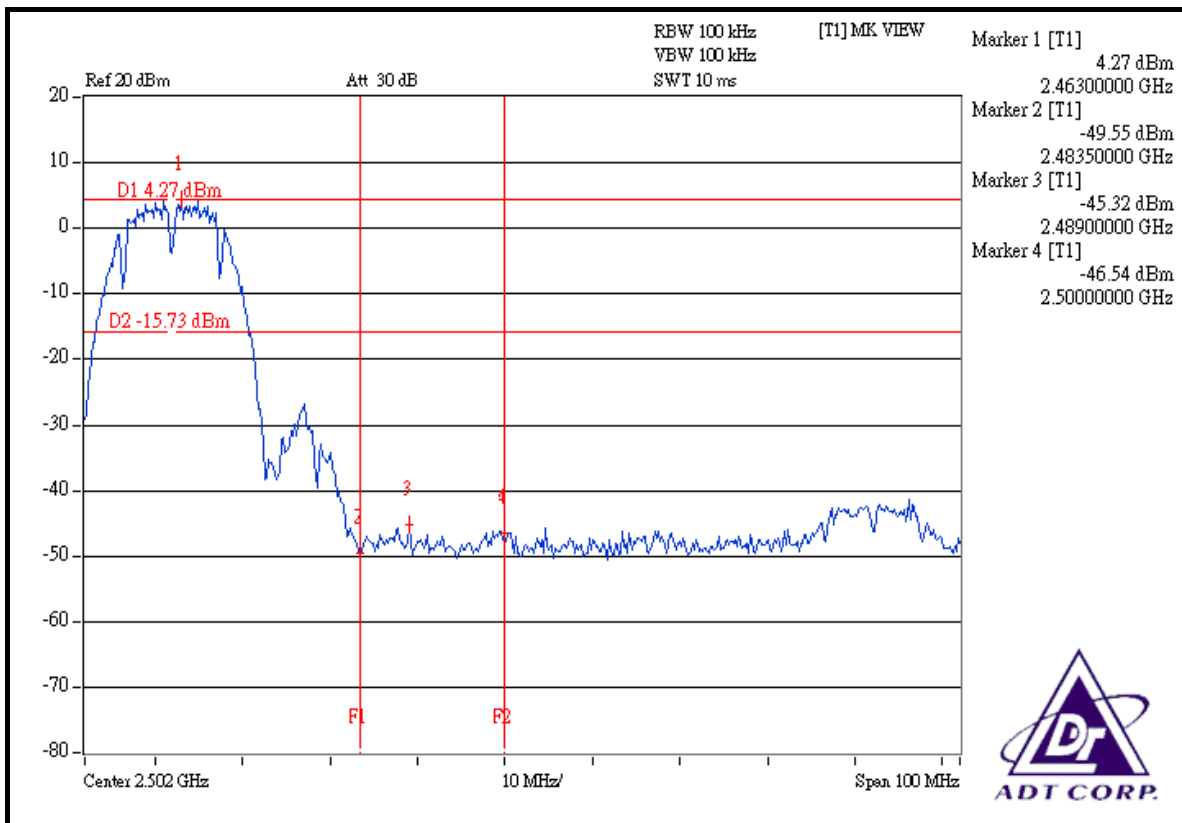
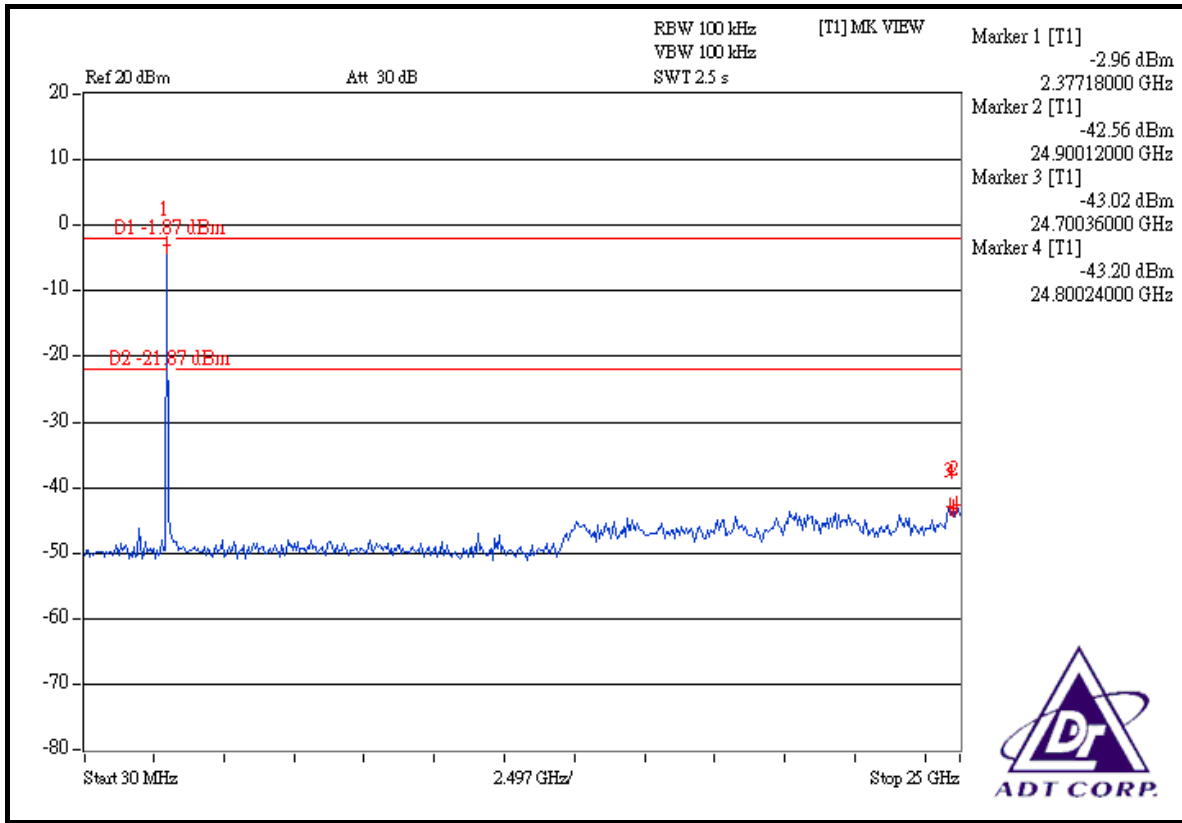
NOTE 1: The band edge emission plot on the next page shows 45.10dBc between carrier maximum power and local maximum emission in restrict band (2.33520GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.06dBuV/m (Peak), so the maximum field strength in restrict band is $103.06 - 45.10 = 57.96$ dBuV/m which is under 74dBuV/m limit.

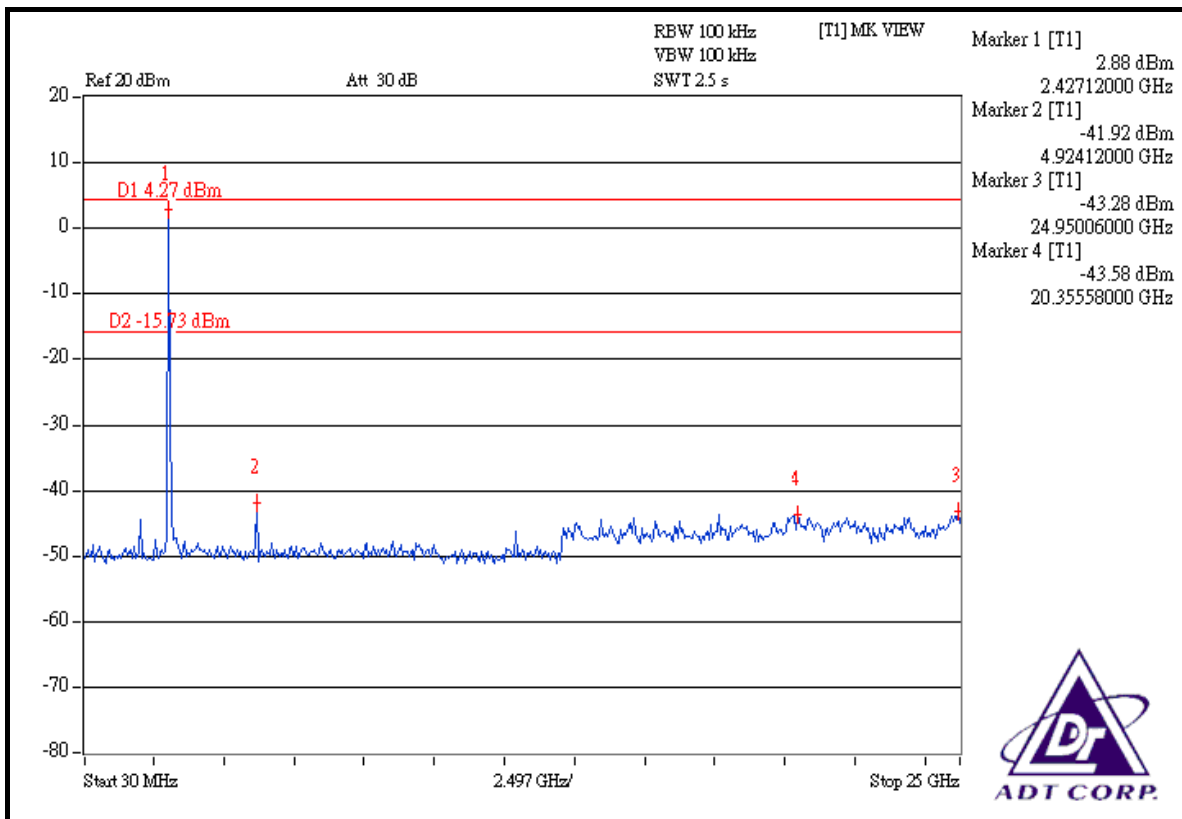
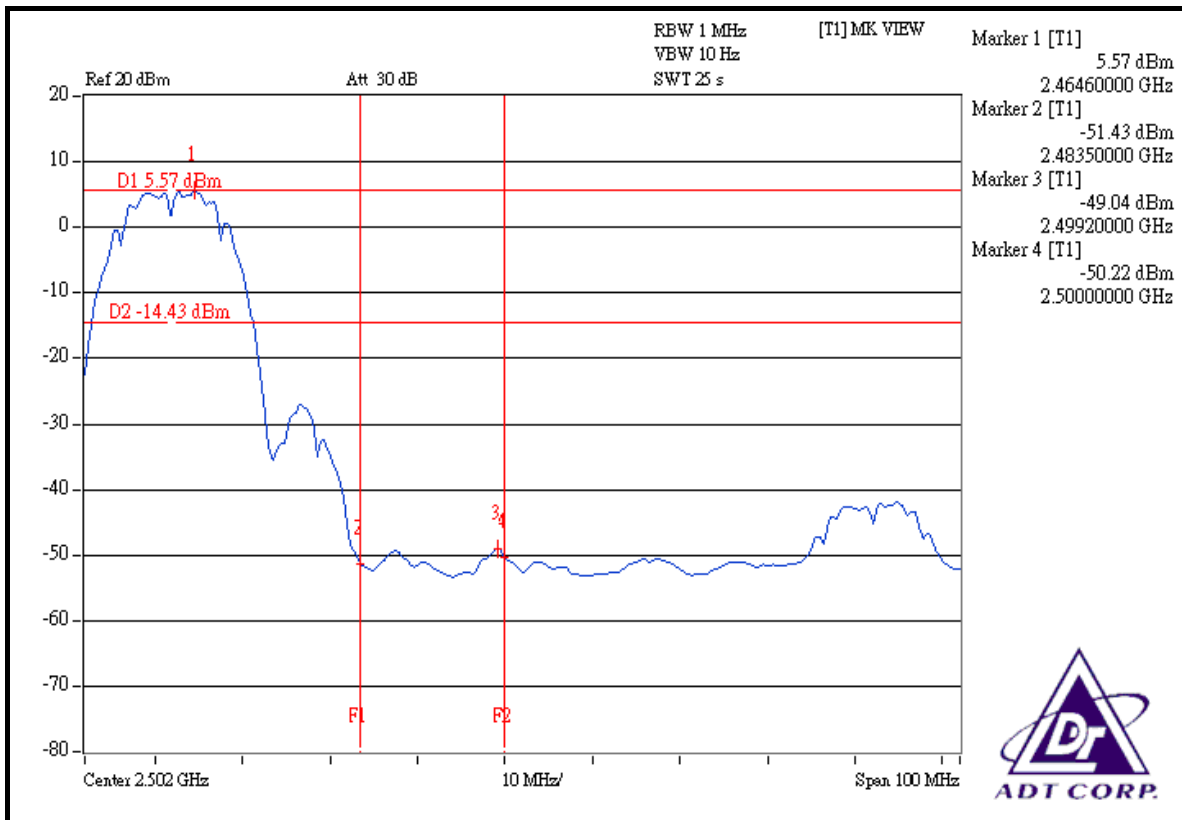
The band edge emission plot of on the next page shows 51.58dBc between carrier maximum power and local maximum emission in restrict band (2.32920GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.72dBuV/m (Average), so the maximum field strength in restrict band is $98.72 - 51.58 = 47.14$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the next second page shows 49.59dBc between carrier maximum power and local maximum emission in restrict band (2.48900GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.91dBuV/m (Peak), so the maximum field strength in restrict band is $109.91 - 49.59 = 60.32$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 54.61dBc between carrier maximum power and local maximum emission in restrict band (2.49920GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.26dBuV/m (Average), so the maximum field strength in restrict band is $105.26 - 54.61 = 50.65$ dBuV/m which is under 54dBuV/m limit.







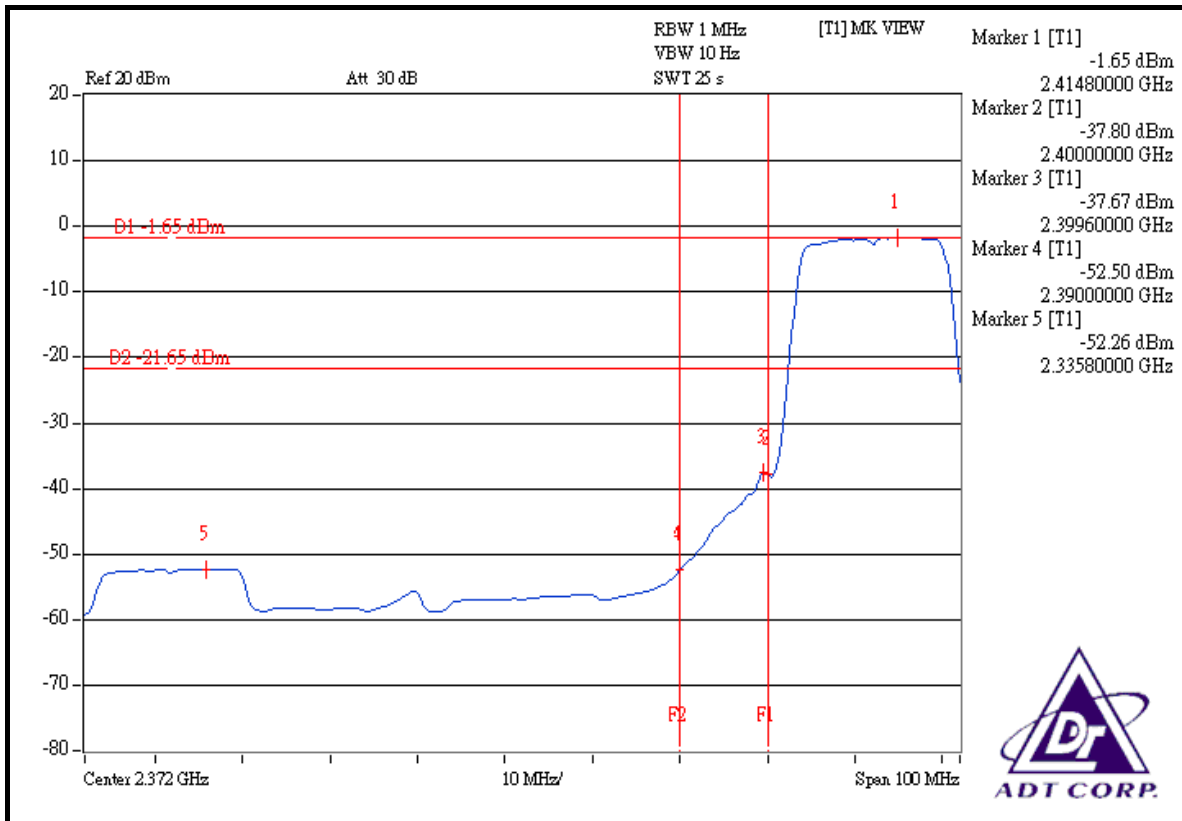
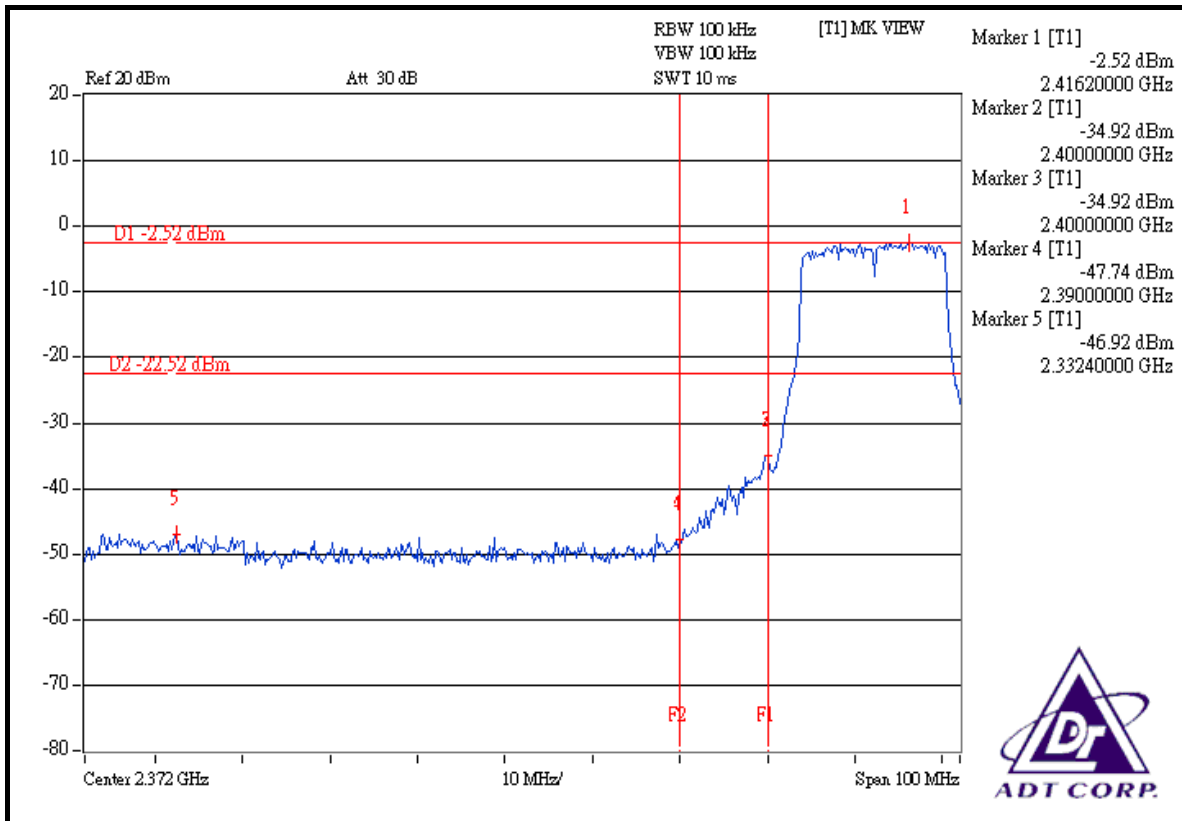
802.11g OFDM MODULATION

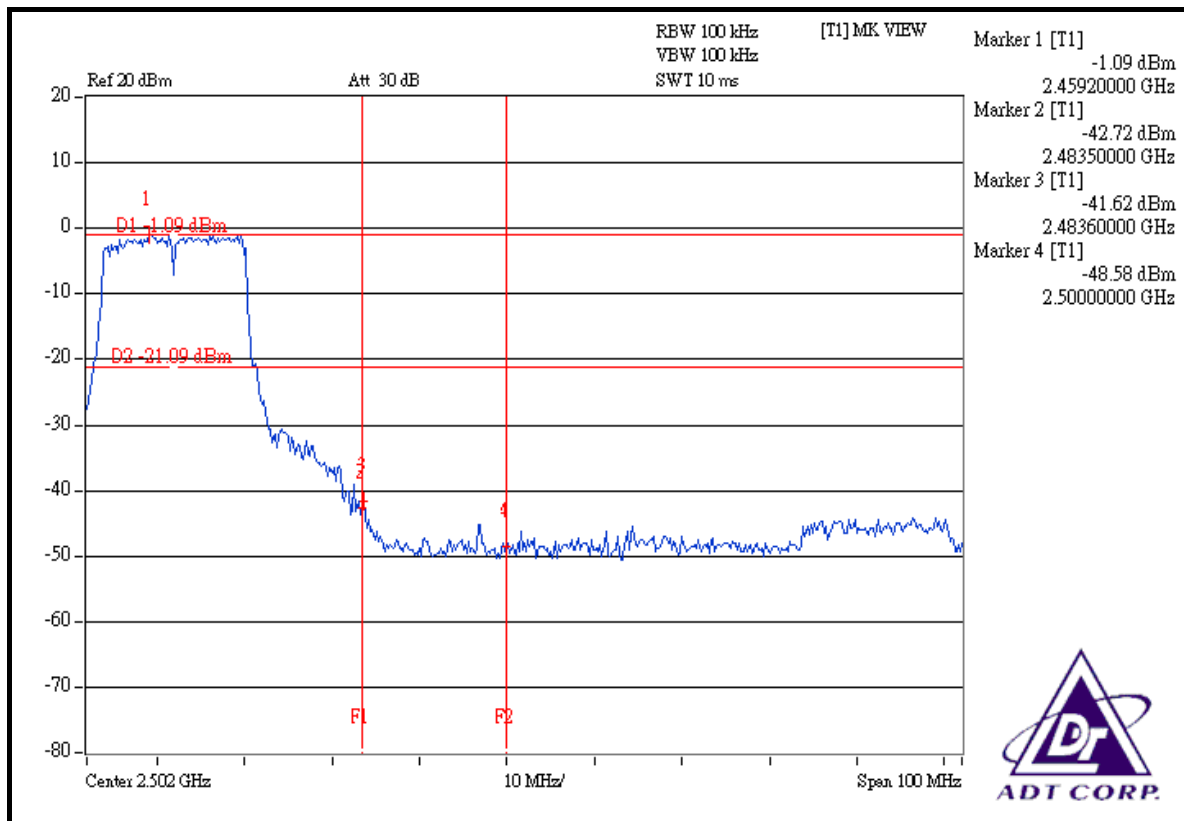
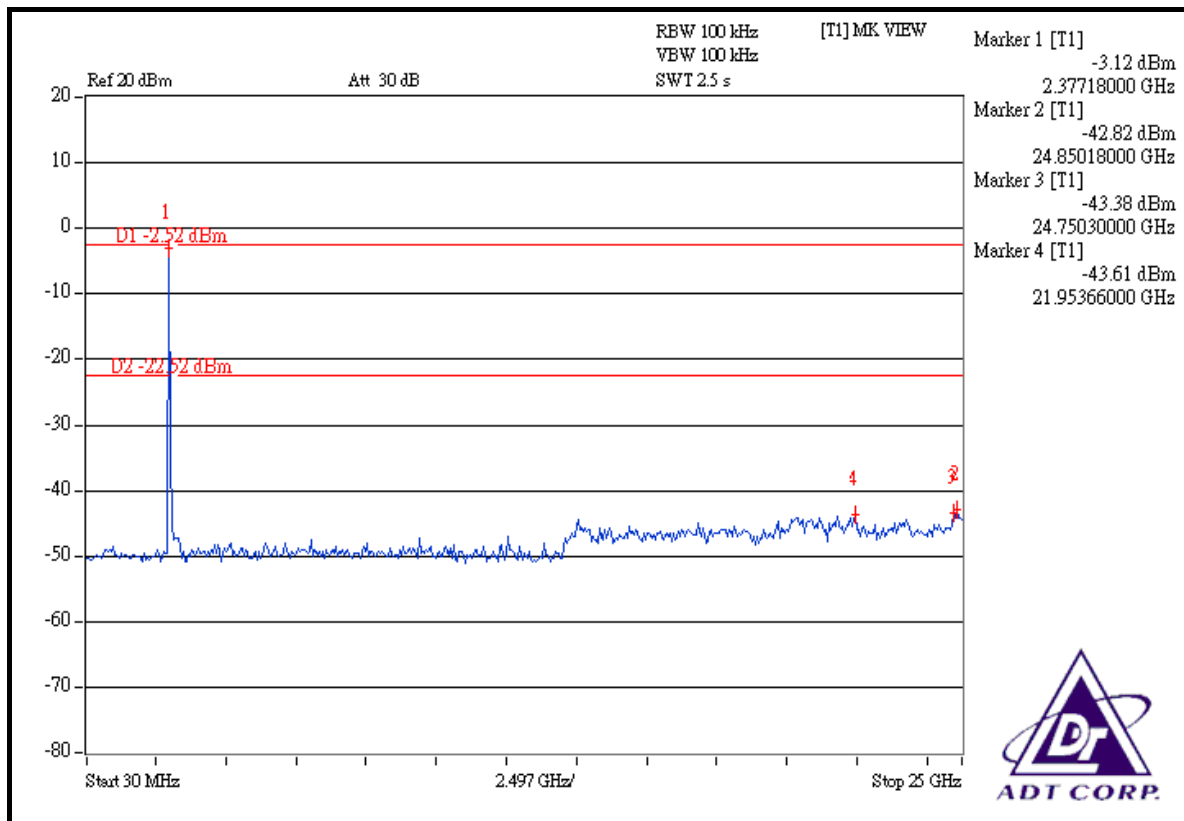
NOTE 1: The band edge emission plot on the next page shows 44.40dBc between carrier maximum power and local maximum emission in restrict band (2.33240GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.06dBuV/m (Peak), so the maximum field strength in restrict band is $108.06 - 44.40 = 63.66$ dBuV/m which is under 74dBuV/m limit.

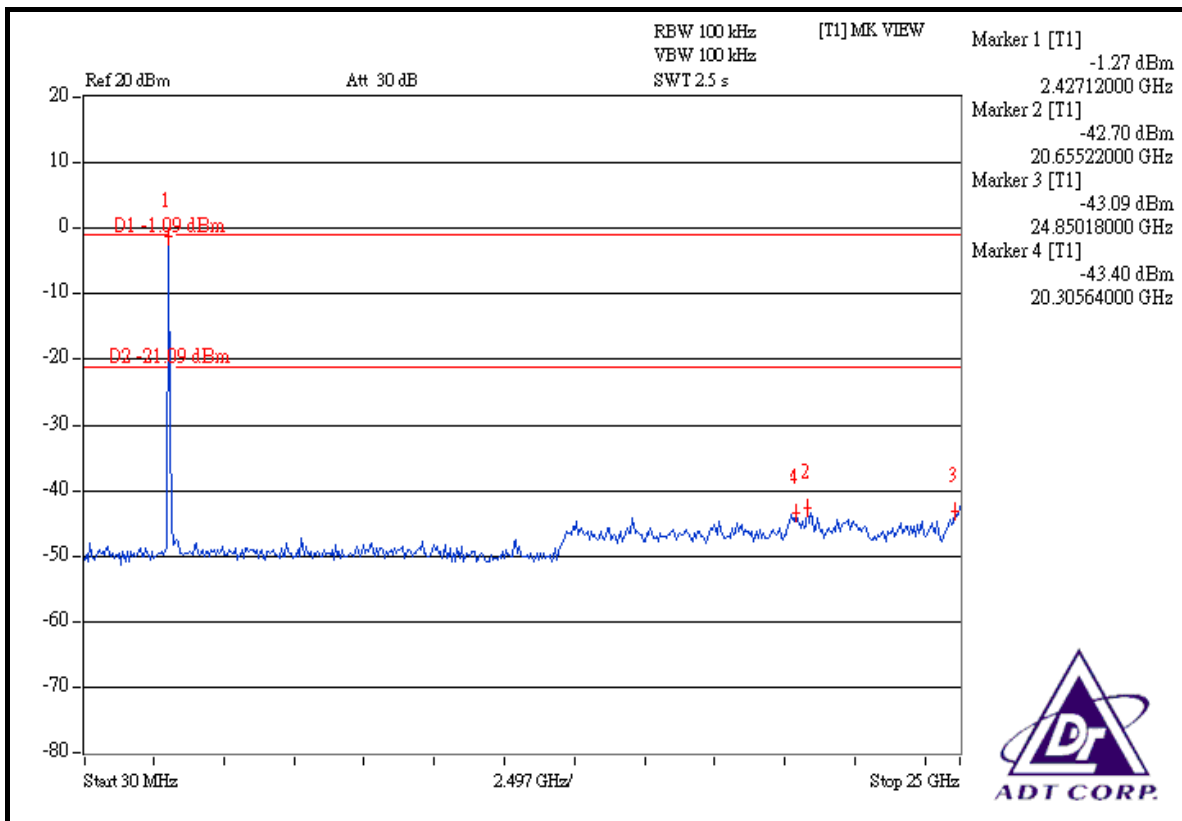
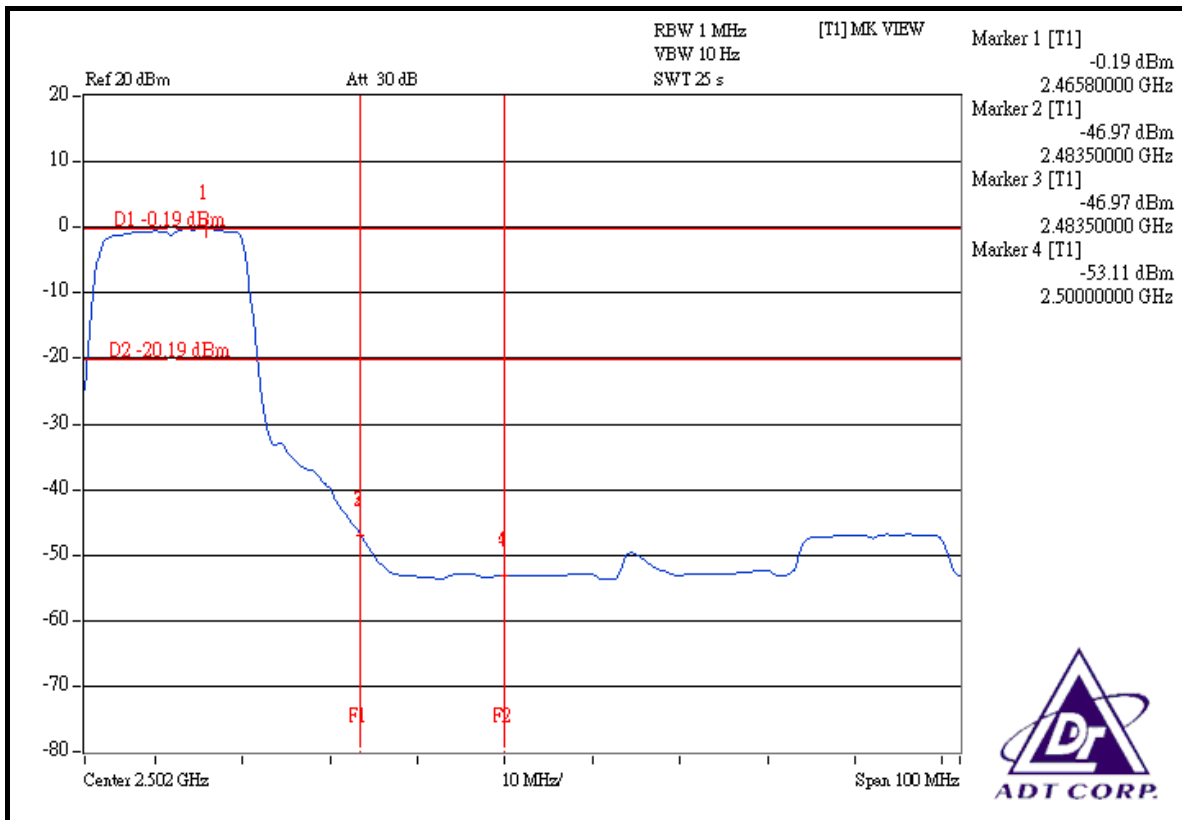
The band edge emission plot of on the next page shows 50.61dBc between carrier maximum power and local maximum emission in restrict band (2.33580GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.10dBuV/m (Average), so the maximum field strength in restrict band is $98.10 - 50.61 = 47.49$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the next second page shows 40.53dBc between carrier maximum power and local maximum emission in restrict band (2.48360GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.81dBuV/m (Peak), so the maximum field strength in restrict band is $108.81 - 40.53 = 68.28$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 46.78dBc 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 98.65dBuV/m (Average), so the maximum field strength in restrict band is $98.65 - 46.78 = 51.87$ 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 type used in this product is Dipole antenna with R-SMA antenna connector. The maximum Gain of the antenna is 3dBi.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6 INFORMATION ON THE TESTING LABORATORIES

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

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

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

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

Web Site: 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.