

### **1.5 Test Procedure**

All measurements contained in this report were performed mainly according to the techniques described in Measurement procedure ANSI C63.4 (1992).

### **1.6 Location of the Test Site**

The radiated emissions measurements required by the rules were performed on the **three-meter, Anechoic Chamber (Registration Number: 93906) and ten-meter OATS (Registration Number: 91035)** maintained by *Training Research Co., Ltd.* 1F., No. 2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a anechoic chamber also located at Training Research Co., Ltd. 1F, No. 2, Lane 194, Huan-Ho Street, Hsichih, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

### **1.7 General Test Condition**

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions, which the EUT was considered likely to encounter in normal use were investigated.

In test, the base and handset are tested separately. They were set in Ch1, Ch3 and Ch4 of EUT and continuously transmitting mode that controlled by test mode of EUT.

**3.4 Test Result of Radiated Emissions**

The peak values of fundamental emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

**Product Name :** 2.4GHz AV Sender built-in color CMOS video camera

**Model No. :** 6.8' LCD Monitor; Grand GT-6801; Grand RF Guard CMOS; Grand RF Guard CCD

***Open Field Fundamental Emissions***

Channel	Frequency (MHz)	A. P. (H/V)	A.H. (m)	Table (degree)	Reading (Peak ) (dBV/m)	<b>Correction Factors (dB/m)</b>	Amplitude (Peak ) (dB μ V/m)	Limit (dB μ V)	Margin (dB μ V)
1	2412.63	H	1.00	74	78.88	6.40	85.28	94.00	-8.72
	2412.68	V	1.00	137	78.65	6.40	85.05	94.00	-8.95
3	2451.42	H	1.00	32	79.26	6.60	85.86	94.00	-8.14
	2451.73	V	1.00	154	78.80	6.60	85.40	94.00	-8.60
4	2470.43	H	1.00	190	79.12	6.80	85.92	94.00	-8.08
	2470.24	V	1.00	128	79.27	6.80	86.07	94.00	-7.93

Note:

1. A. P. means antenna polarization, horizontal and vertical.
2. A. H. means antenna height.
3. Table means turntable turning position.
4. Amplitude means the fundamental emission measured.
5. Margin = Amplitude-limit

**Table 6 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 1, Horizontal]**

Radiated Emission				Correction Factors ( dB )	Corrected Amplitude (dB μ V/m)		FCC Class B ( 3 m )		
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (m)	Table ( ° )		Limit		Margin (dB)		
					Peak	Average		Peak	Average
*4.829	48.94	1.00	114	4.00	52.94	---	74.0	54.00	-1.06
7.245	38.07	1.00	240	10.20	48.27	---	74.0	54.00	-5.73
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz

**Table 7 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 1, Vertical]**

Radiated Emission				Correction Factors ( dB )	Corrected Amplitude (dB μ V/m)		FCC Class B ( 3 m )		
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (m)	Table ( ° )		Limit		Margin (dB)		
					Peak	Average		Peak	Average
*4.832	48.61	1.00	42	4.00	52.61	---	74.0	54.00	-1.39
*7.263	36.74	1.00	34	10.20	46.94	---	74.0	54.00	-7.06
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz

Table 8 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 3 Horizontal]

Radiated Emission				Correction Factors ( dB )	Corrected Amplitude (dB μ V/m)		FCC Class B ( 3 m )		Margin (dB)
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (m)	Table ( ° )		Limit				
					Peak	Average	Peak	Average	
*4.901.67	48.84	1.00	90	4.10	52.94	---	74.0	54.00	-1.06
*7.348.54	39.21	1.00	162	10.40	49.61	---	74.0	54.00	-4.39
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz

Table 9 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 3, Vertical]

Radiated Emission				Correction Factors ( dB )	Corrected Amplitude (dB μ V/m)		FCC Class B ( 3 m )		Margin (dB)
Frequency (GHz)	Amplitude (dB μ V/m)	Ant. H. (m)	Table ( ° )		Limit				
					Peak	Average	Peak	Average	
*4.901	46.67	1.00	215	4.10	50.77	---	74.0	54.00	-3.23
*7.348	38.54	1.00	18	10.40	48.94	---	74.0	54.00	-5.06
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz

**Table 10 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 4, Horizontal]**

<b>Radiated Emission</b>				<b>Correction Factors</b> ( dB )	<b>Corrected Amplitude</b> (dB μ V/m)		<b>FCC Class B</b> ( 3 m )		
<b>Frequency (GHz)</b>	<b>Amplitude (dB μ V/m)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>		<b>Limit</b>		<b>Margin (dB)</b>		
					<b>Peak</b>	<b>Average</b>		<b>Peak</b>	<b>Average</b>
*4.943	48.91	1.00	170	4.20	53.11	---	74.0	54.00	-0.89
*7.408	39.71	1.00	294	10.4	50.11	---	74.0	54.00	-3.89
12.955	40.11	1.00	170	9.00	49.11	---	74.0	54.00	-4.89
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz

**Table 11 Open Field Radiated Emissions for 1GHz ~ 24GHz [Channel 4, Vertical]**

<b>Radiated Emission</b>				<b>Correction Factors</b> ( dB )	<b>Corrected Amplitude</b> (dB μ V/m)		<b>FCC Class B</b> ( 3 m )		
<b>Frequency (GHz)</b>	<b>Amplitude (dB μ V/m)</b>	<b>Ant. H. (m)</b>	<b>Table ( ° )</b>		<b>Limit</b>		<b>Margin (dB)</b>		
					<b>Peak</b>	<b>Average</b>		<b>Peak</b>	<b>Average</b>
*4.937	48.24	1.00	230	4.20	52.44	---	74.0	54.00	-1.56
*7.408	38.71	1.00	42	10.40	49.11	---	74.0	54.00	-4.89
*9.445	37.67	1.00	7	12.10	49.77	---	74.0	54.00	-4.23
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Note:

1. Margin = Corrected - Limit.
2. Peak Amplitude + Correction Factor = Corrected.
3. The “ \* “ means restricted bands.
4. Above emissions of 10GHz, passed by more than 20dB margin.
5. Peak: RBW=1M, VBM=1M; Average: RBW=1M, VBW=10Hz