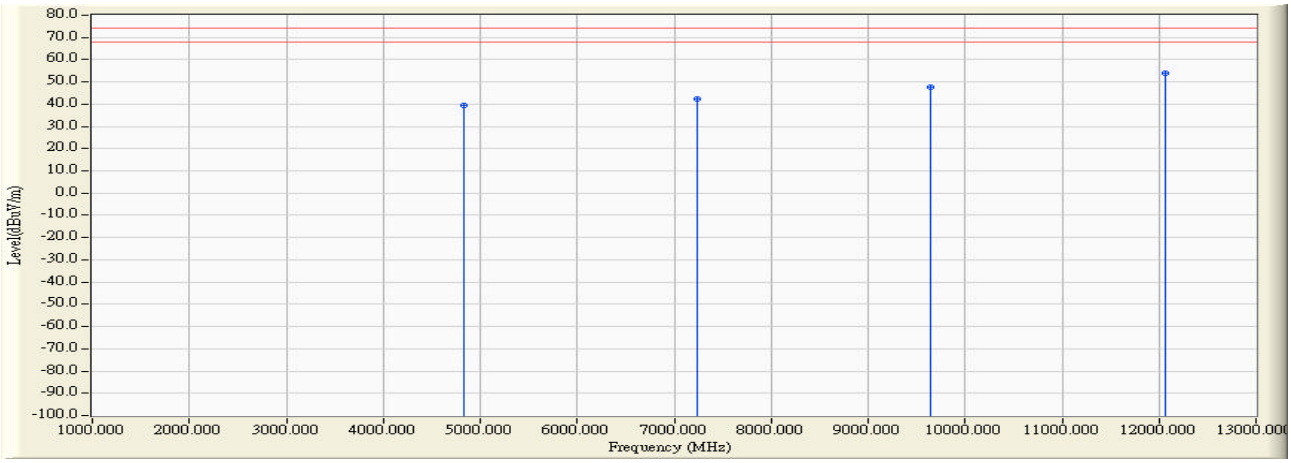
Harmonic & Spurious:

Site : Site 1	**Time : 2007/09/26 - 13:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH1**

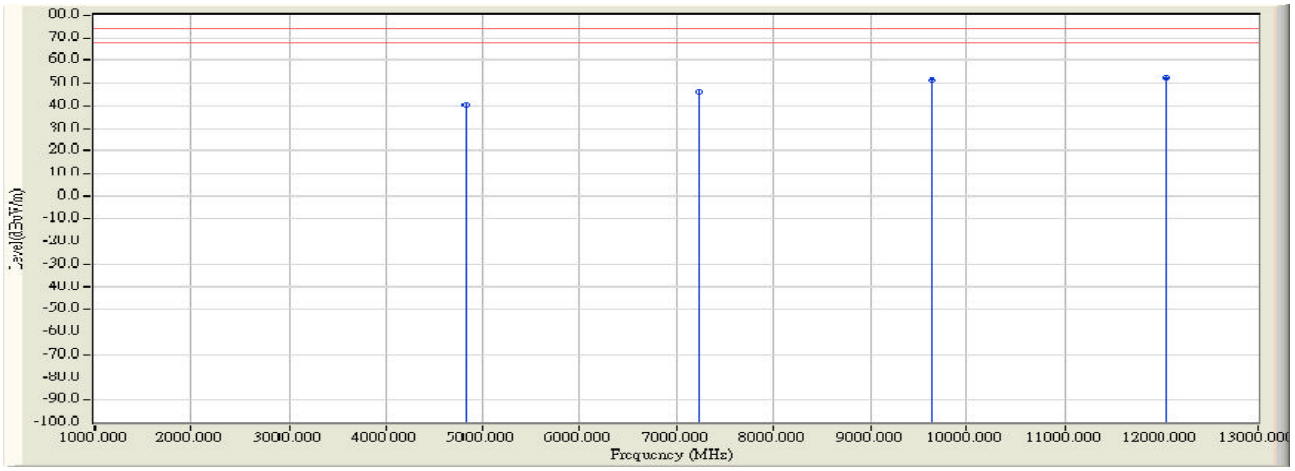


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.300	-0.060	39.320	39.259	-34.741	74.000	54.00	PEAK
2		7236.500	2.841	39.680	42.521	-31.479	74.000	54.00	PEAK
3		9648.320	8.751	38.990	47.741	-26.259	74.000	54.00	PEAK
4	*	12060.620	15.822	36.890	52.712	-21.288	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH1**

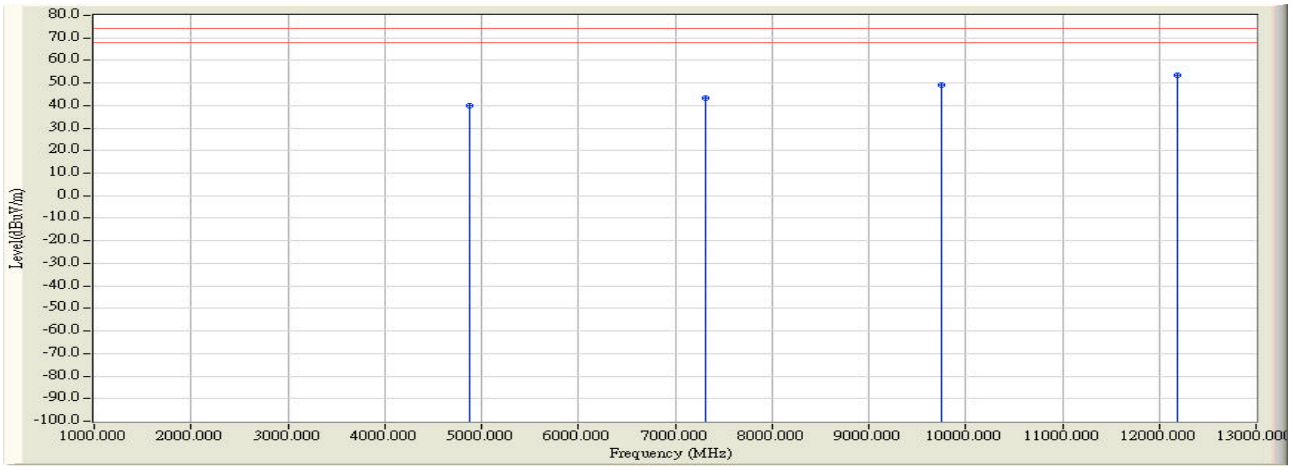


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.600	0.424	39.840	40.263	-33.737	74.000	54.00	PEAK
2		7236.800	7.071	39.040	46.111	-27.889	74.000	54.00	PEAK
3		9648.300	11.983	39.580	51.563	-22.437	74.000	54.00	PEAK
4	*	12060.400	17.717	35.160	52.877	-17.123	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:29**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH6**

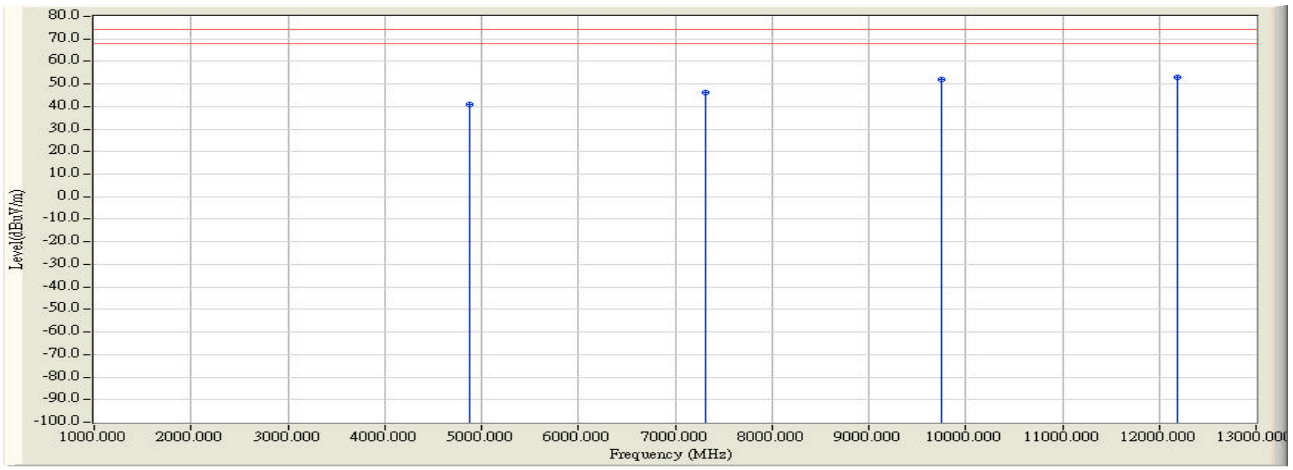


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.590	0.728	39.290	40.018	-33.982	74.000	54.00	PEAK
2		7311.490	4.326	38.900	43.227	-30.773	74.000	54.00	PEAK
3		9748.820	9.196	39.840	49.035	-24.965	74.000	54.00	PEAK
4	*	12185.340	19.907	33.330	52.237	-20.763	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:31**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH6**

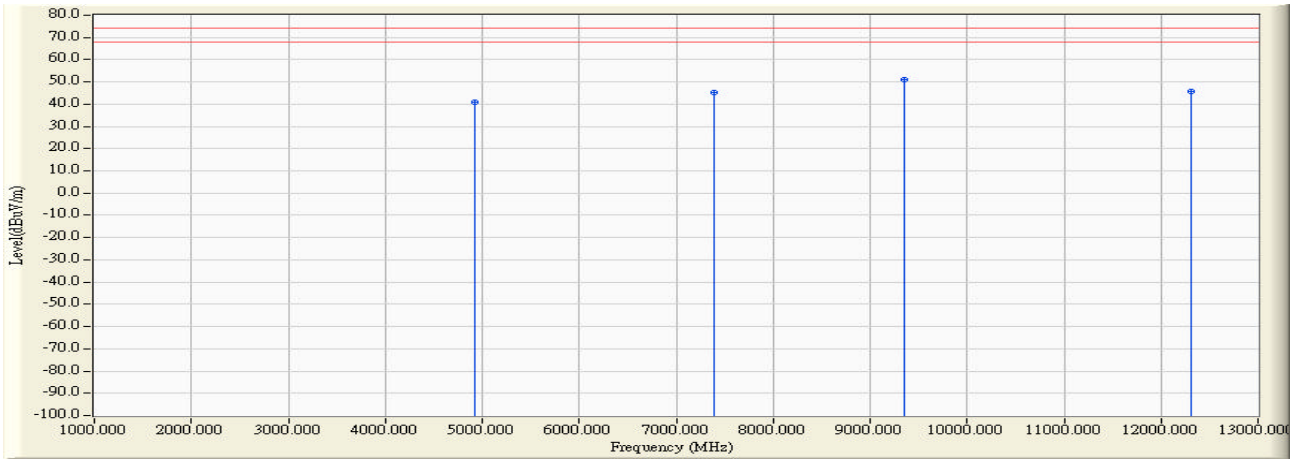


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.900	1.340	39.530	40.871	-33.129	74.000	54.00	PEAK
2		7311.470	7.077	39.340	46.417	-27.583	74.000	54.00	PEAK
3		9748.650	12.602	39.350	51.952	-22.048	74.000	54.00	PEAK
4	*	12185.150	19.128	33.520	52.648	-21.352	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH11**

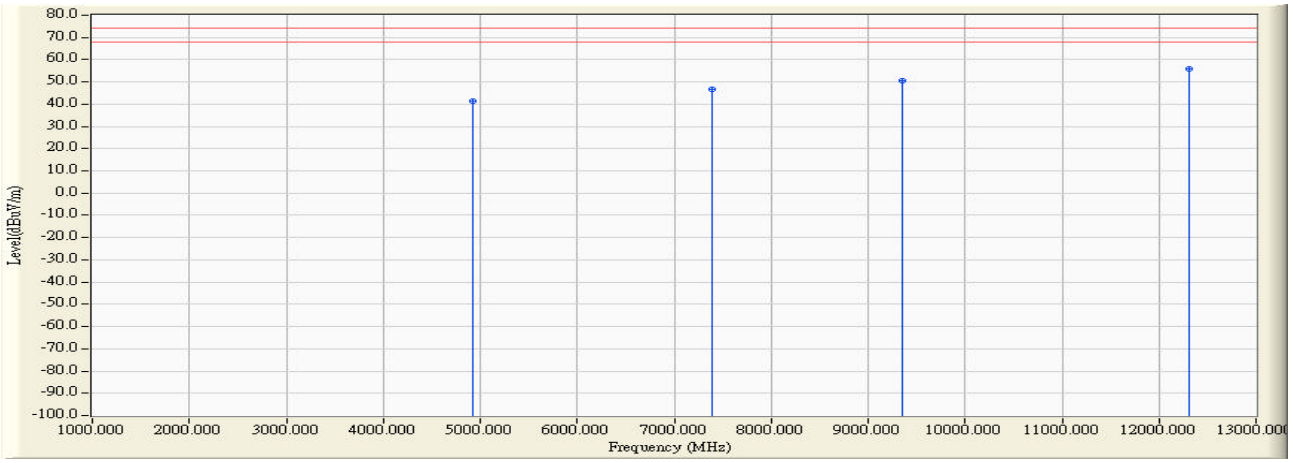


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4924.560	1.443	39.350	40.793	-33.207	74.000	54.00	PEAK
2		7386.710	5.815	39.310	45.124	-28.876	74.000	54.00	PEAK
3	*	9348.630	11.258	39.920	51.177	-22.823	74.000	54.00	PEAK
4		12310.750	7.660	38.180	45.840	-28.160	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:34**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-B-CH11**

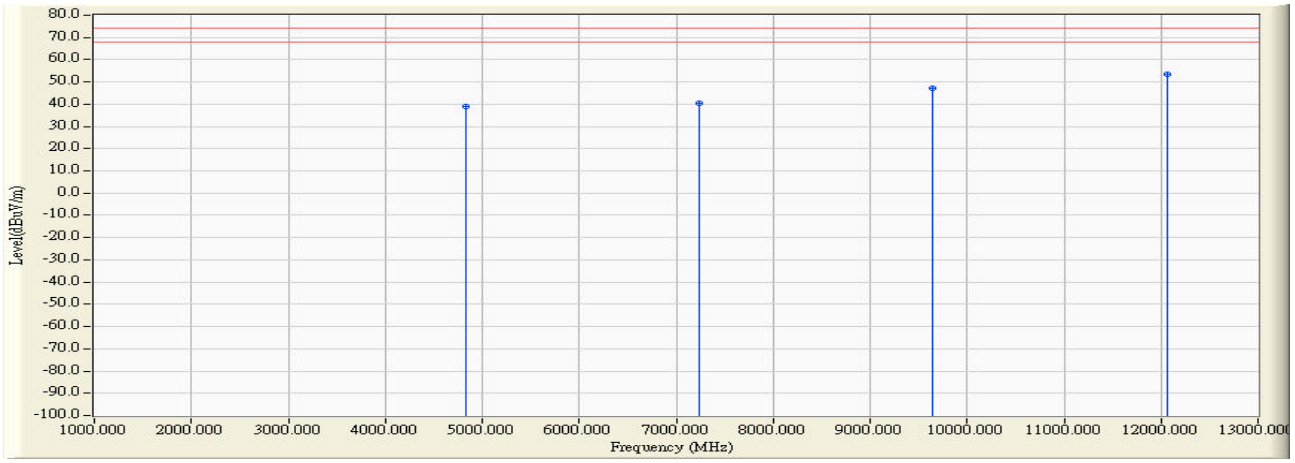


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4924.580	1.995	39.350	41.344	-32.656	74.000	54.00	PEAK
2		7386.730	7.061	39.500	46.560	-27.440	74.000	54.00	PEAK
3		9348.630	11.246	39.140	50.385	-23.615	74.000	54.00	PEAK
4	*	12310.780	18.072	34.570	52.642	-21.358	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:47**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH1**

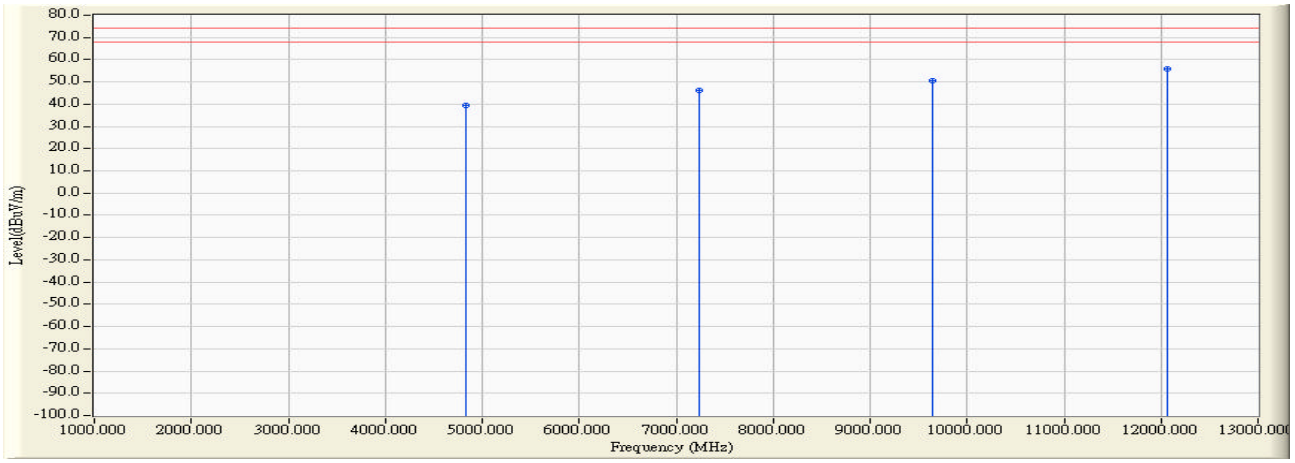


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.580	-0.056	39.040	38.983	-35.017	74.000	54.00	PEAK
2		7236.380	2.840	37.760	40.599	-33.401	74.000	54.00	PEAK
3		9648.990	8.745	38.370	47.115	-26.885	74.000	54.00	PEAK
4	*	12060.410	15.804	36.760	52.564	-21.436	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 13:51**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH1**

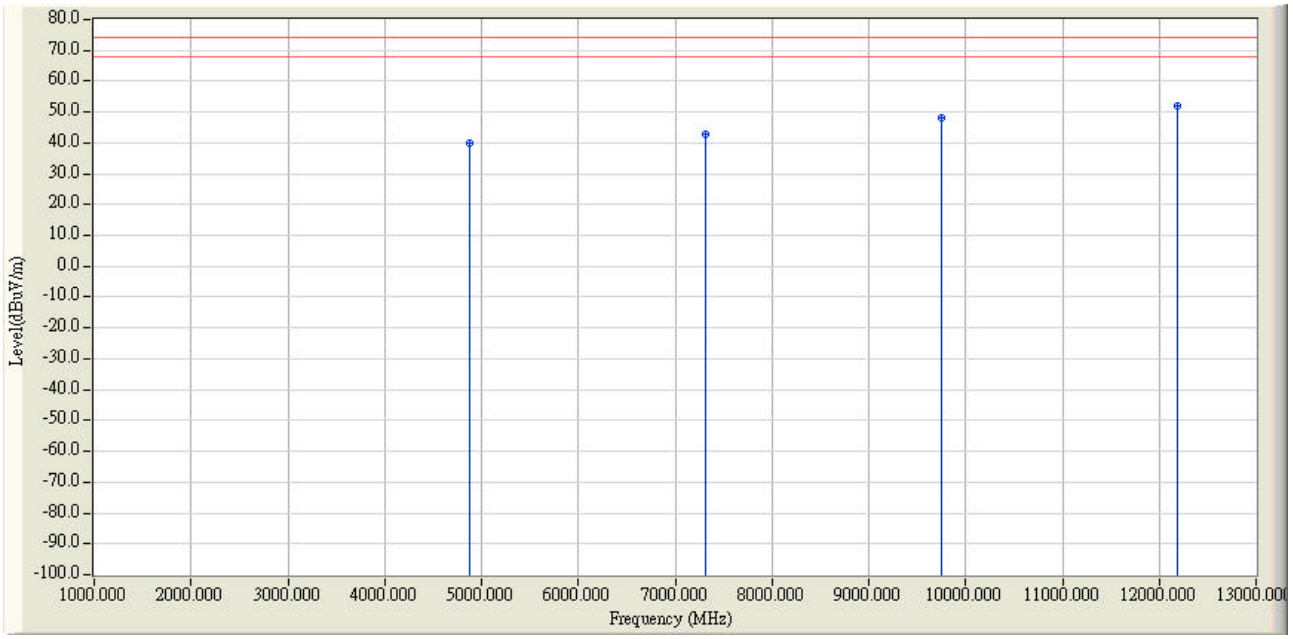


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4824.590	0.423	39.070	39.493	-34.507	74.000	54.00	PEAK
2		7236.510	7.071	39.280	46.351	-27.649	74.000	54.00	PEAK
3		9648.650	11.980	38.570	50.551	-23.449	74.000	54.00	PEAK
4	*	12060.420	17.717	35.010	52.727	-21.273	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 14:00**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH6**

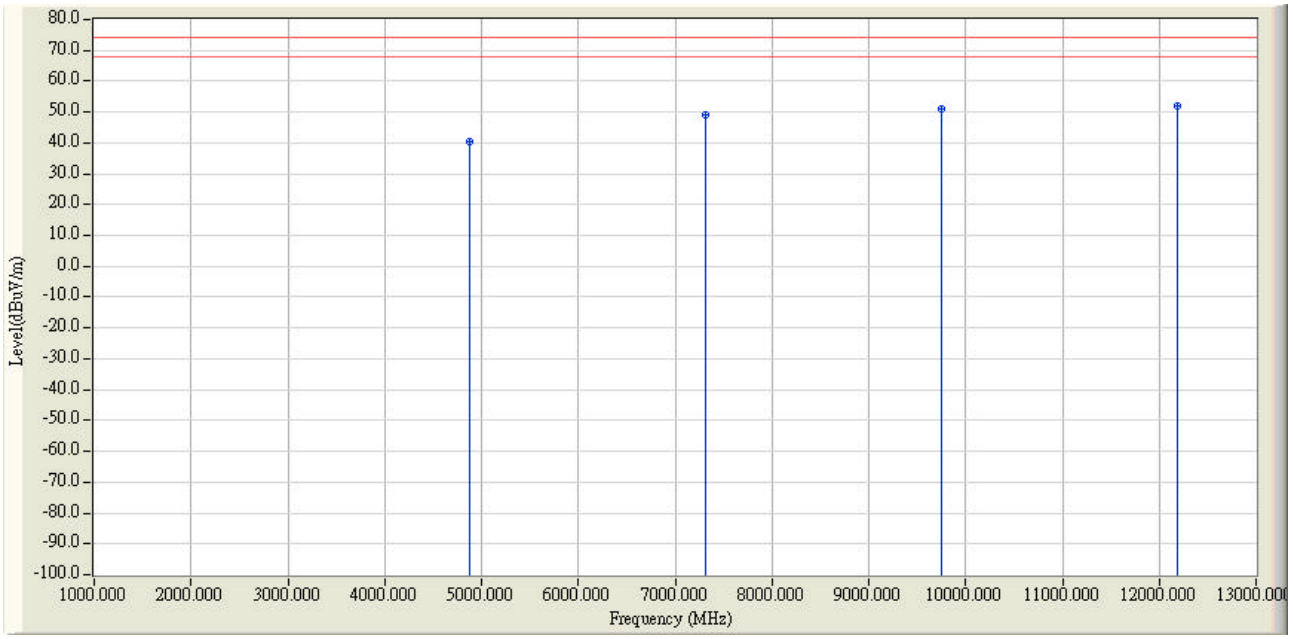


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.270	0.724	39.040	39.764	-34.236	74.000	54.00	PEAK
2		7311.260	4.323	38.550	42.873	-31.127	74.000	54.00	PEAK
3		9748.820	9.196	38.740	47.935	-26.065	74.000	54.00	PEAK
4	*	12185.660	19.909	31.870	51.778	-22.222	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 14:22**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) – VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH6**

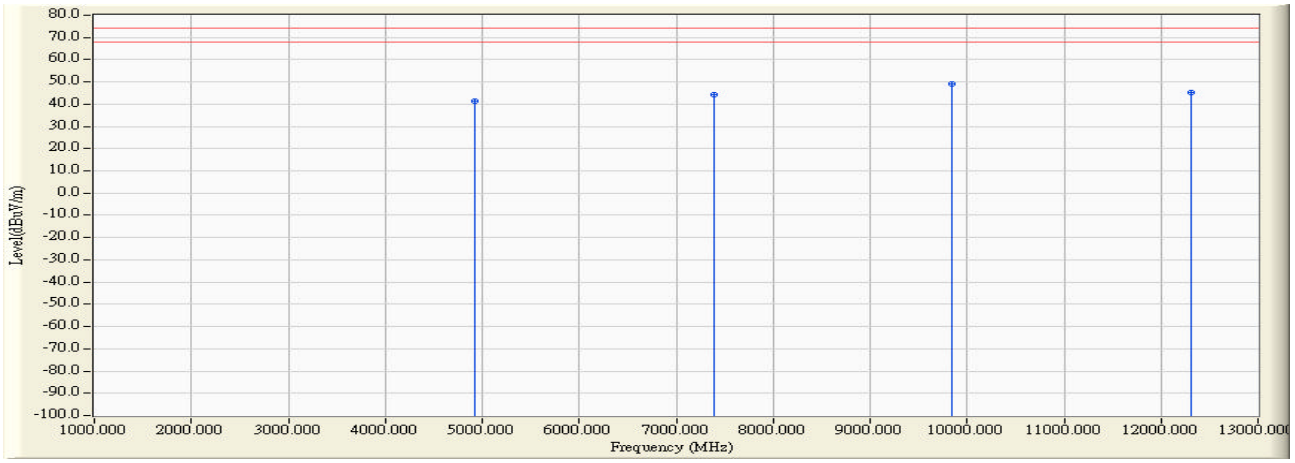


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4874.240	1.329	39.280	40.609	-33.391	74.000	54.00	PEAK
2		7311.280	7.078	42.100	49.177	-24.823	74.000	54.00	PEAK
3		9748.780	12.604	38.220	50.824	-23.176	74.000	54.00	PEAK
4	*	12185.680	19.136	32.940	52.075	-21.925	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 15:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - HORIZONTAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH11**

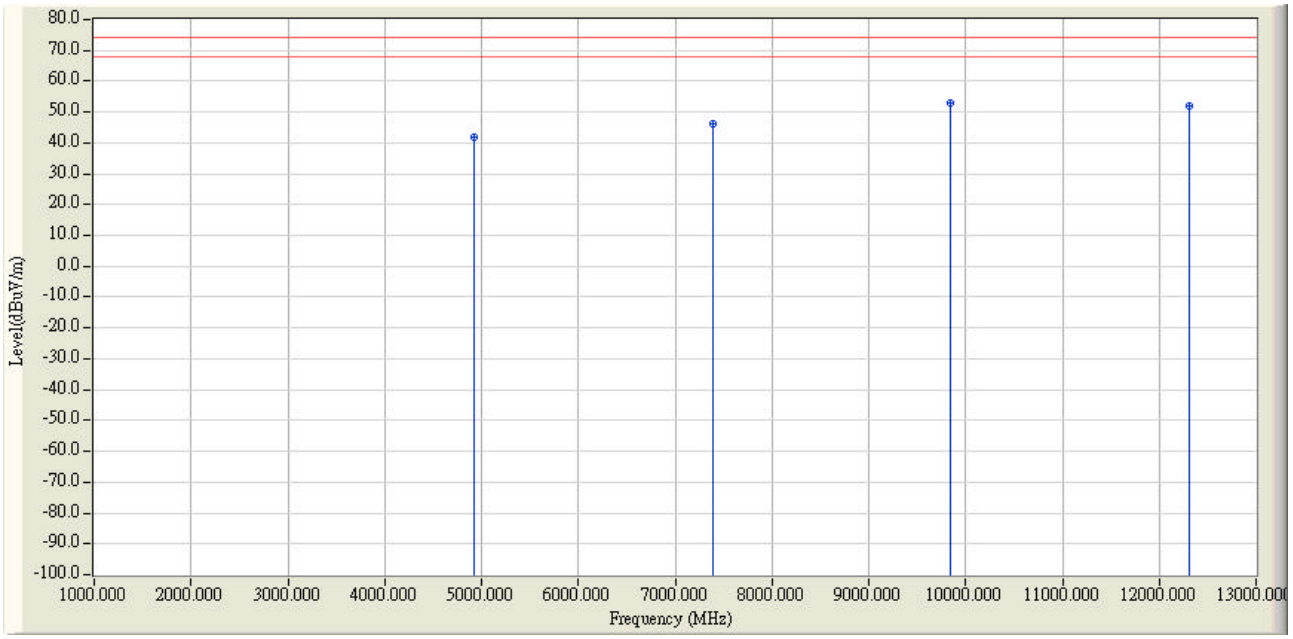


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4924.090	1.437	39.750	41.187	-32.813	74.000	54.00	PEAK
2		7386.420	5.808	38.480	44.288	-29.712	74.000	54.00	PEAK
3	*	9848.460	10.480	38.530	49.010	-24.990	74.000	54.00	PEAK
4		12310.610	7.638	37.490	45.128	-28.872	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : Site 1	**Time : 2007/09/26 - 15:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
EUT : Wireless ADSL2+ ROUTER	**Probe : FCC_CB4_1-18G(2007-9) - VERTICAL**
Power : AC 120V/ 60Hz	**Note : Mode 1: Transmit-G-CH11**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1		4924.090	1.991	40.080	42.071	-31.929	74.000	54.00	PEAK
2		7386.430	7.060	39.250	46.310	-27.690	74.000	54.00	PEAK
3	*	9848.490	14.015	38.890	52.905	-21.095	74.000	54.00	PEAK
4		12310.570	18.075	33.020	51.095	-22.905	74.000	54.00	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

5. Band Edge

5.1. Test Equipment

The following test equipment are used during the test:

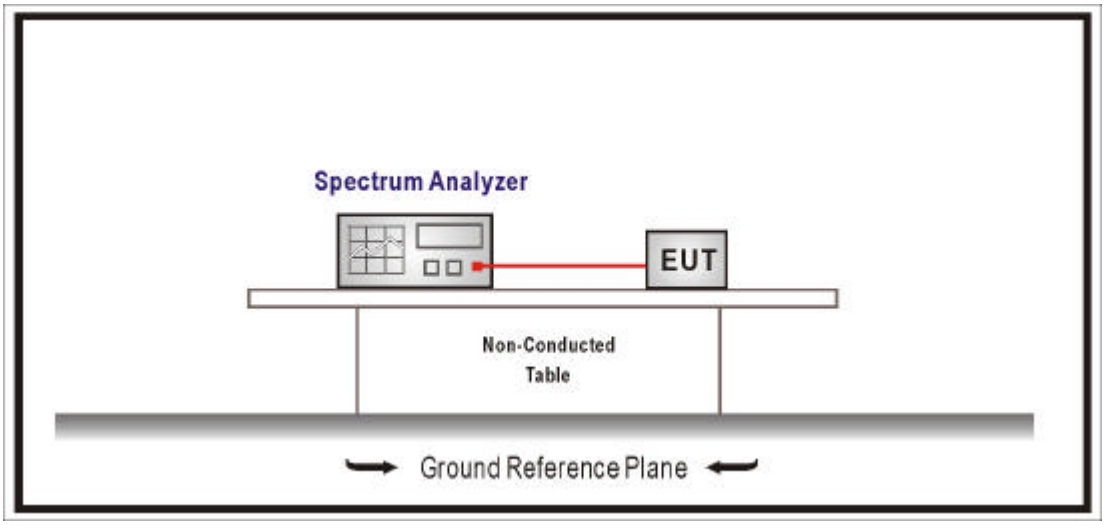
RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2007
2	No.1 OATS				Sep., 2007
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2007
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2007
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2007
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2007
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2007
7	No.1 OATS				Sep., 2007

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

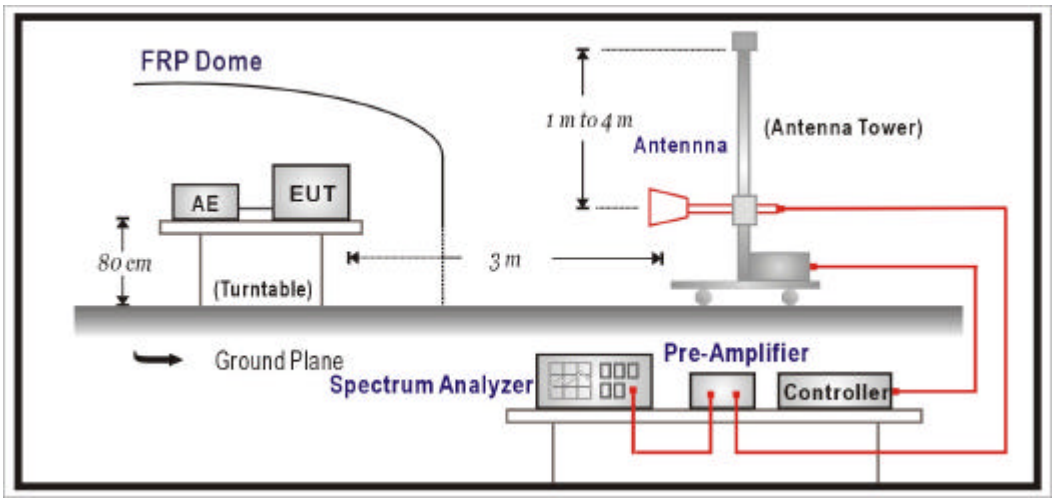
2. Mark " X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

5.6. Uncertainty

The measurement uncertainty

Conducted is defined as ±1.27dB

Radiated is defined as ±3.9dB