

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).

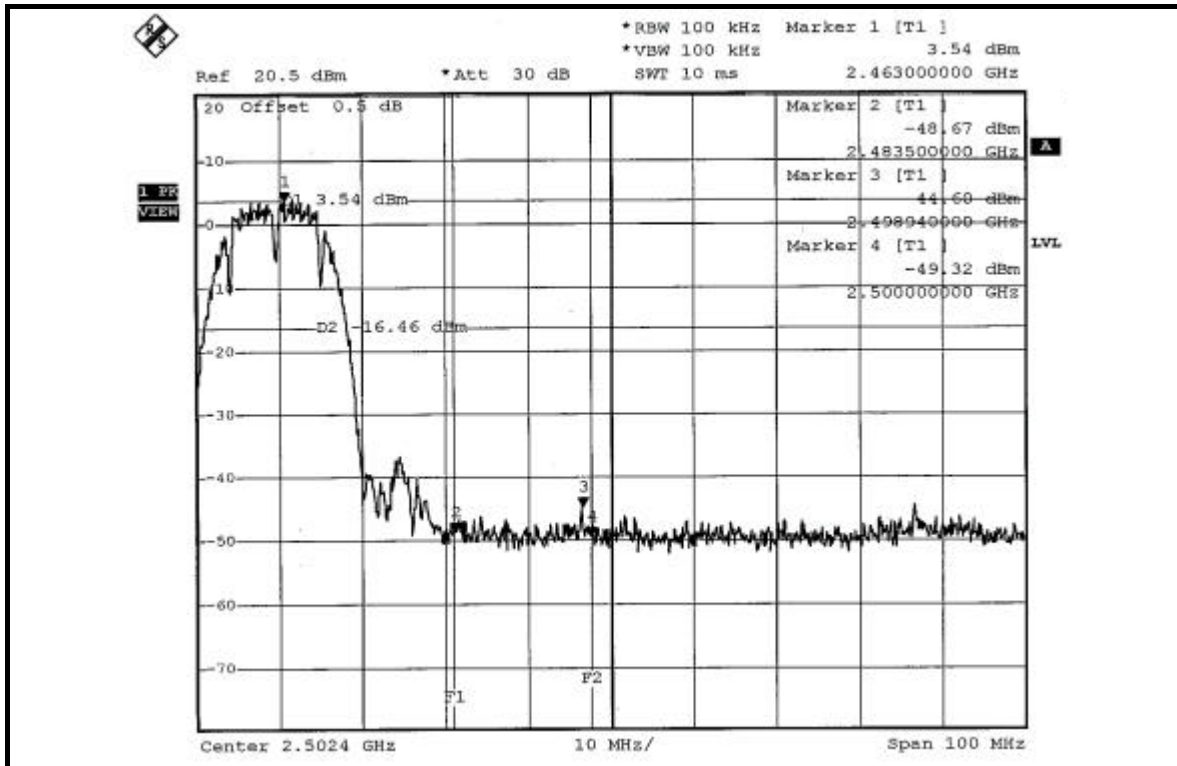
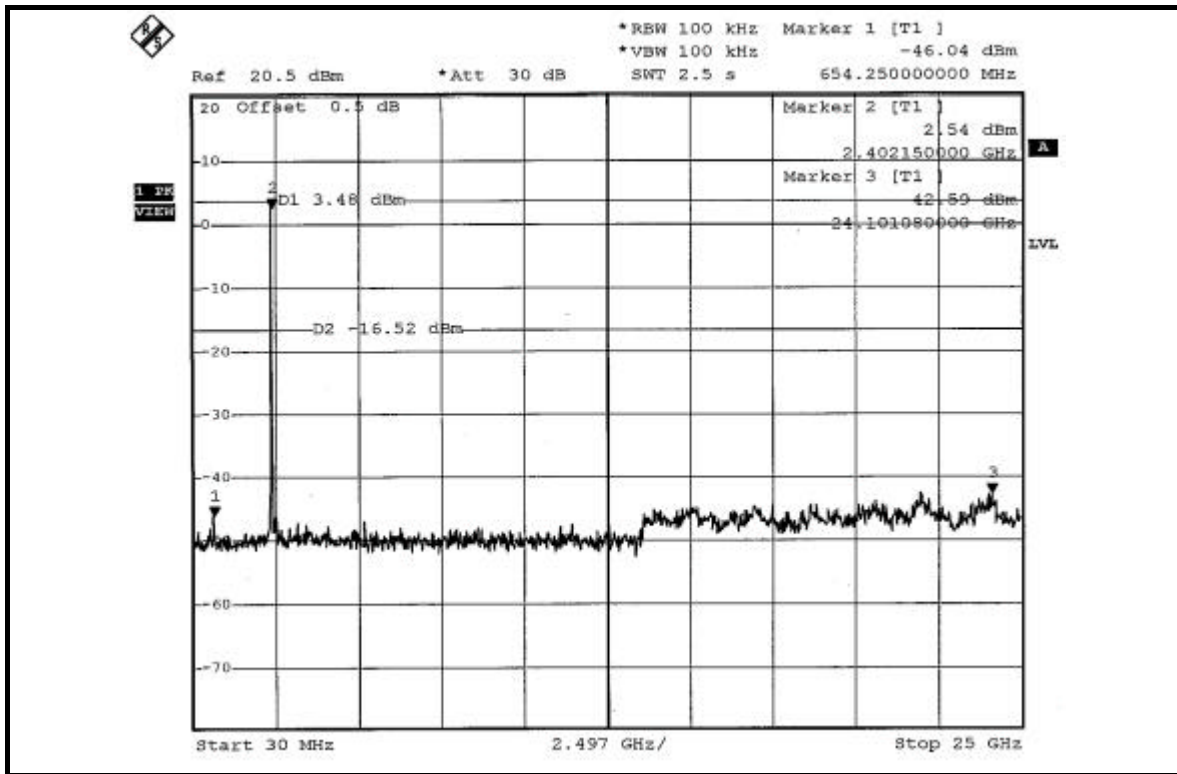
802.11b DSSS MODULATION

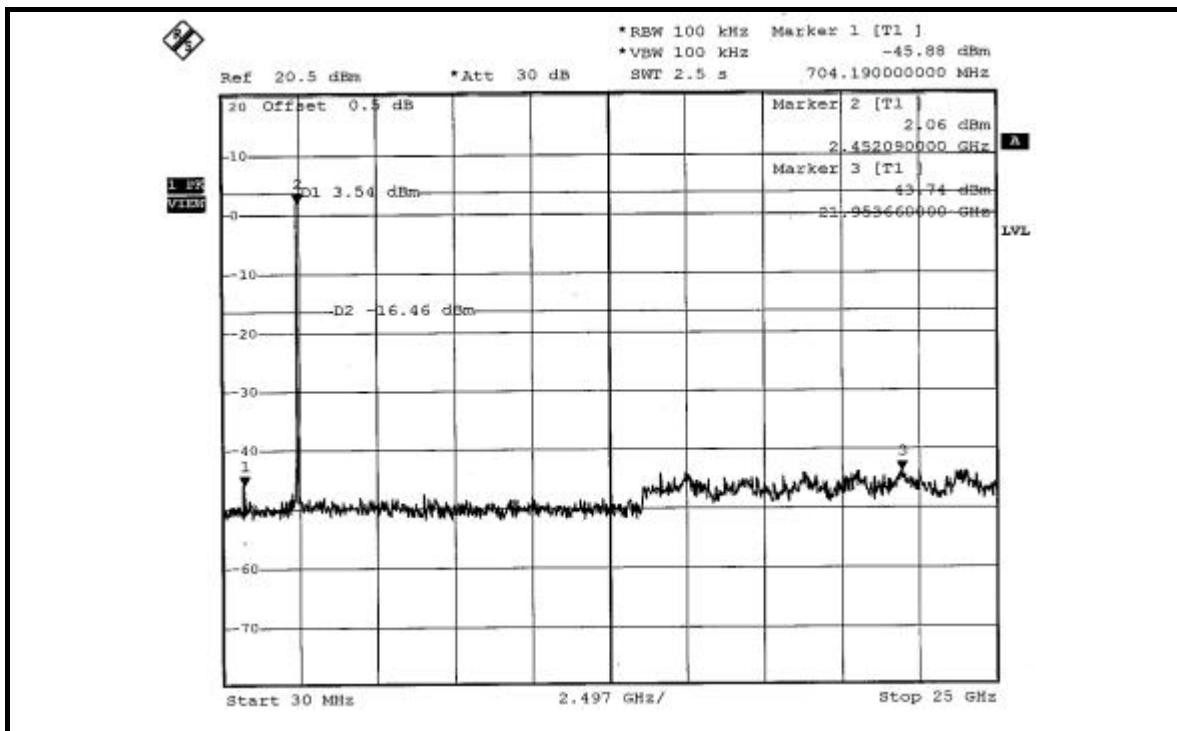
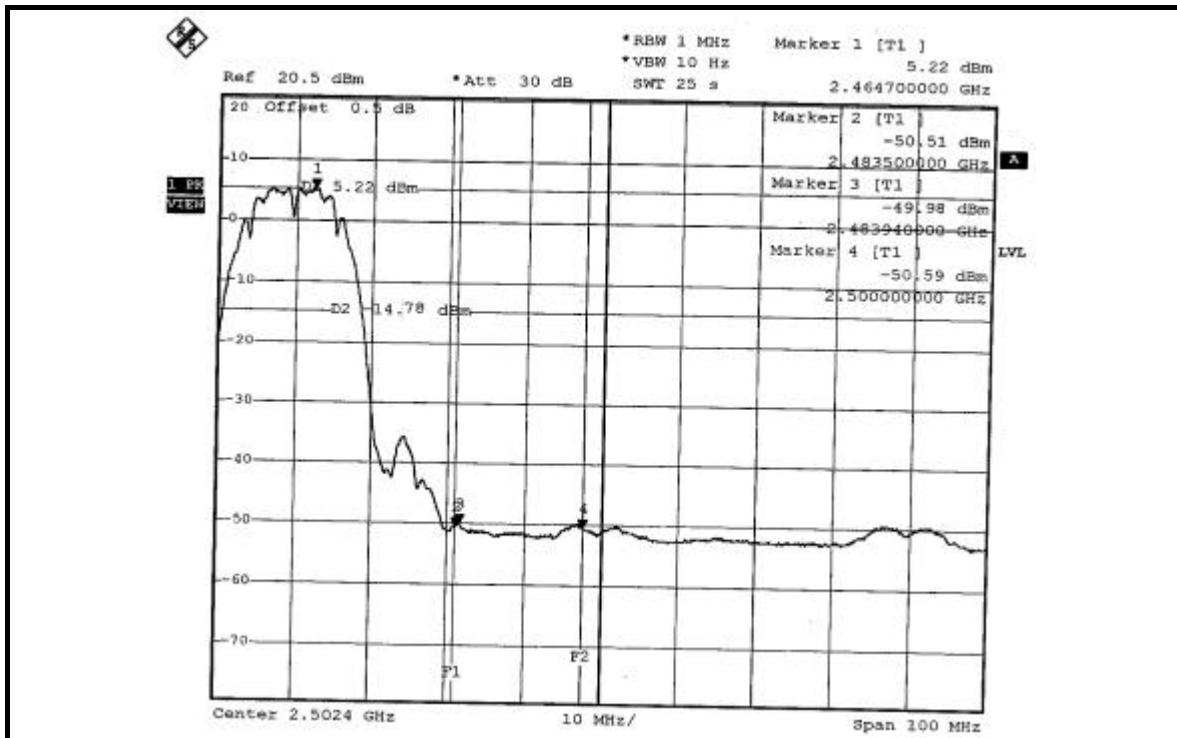
NOTE 1: The band edge emission plot of DSSS technique on the next page shows 48.93dBc between carrier maximum power and local maximum emission in restrict band (2.3748GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.45dBuV/m (Peak), so the maximum field strength in restrict band is $108.45 - 48.93 = 59.52$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next page shows 53.93dBc between carrier maximum power and local maximum emission in restrict band (2.3750GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.06dBuV/m (Average), so the maximum field strength in restrict band is $105.06 - 53.93 = 51.13$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot of DSSS technique on the next second page shows 48.14dBc between carrier maximum power and local maximum emission in restrict band (2.4989GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.50dBuV/m (Peak), so the maximum field strength in restrict band is $107.50 - 48.14 = 59.36$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on the next third page shows 55.20dBc between carrier maximum power and local maximum emission in restrict band (2.4839GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.25dBuV/m (Average), so the maximum field strength in restrict band is $104.25 - 55.20 = 49.05$ dBuV/m which is under 54dBuV/m limit.





802.11g OFDM MODULATION

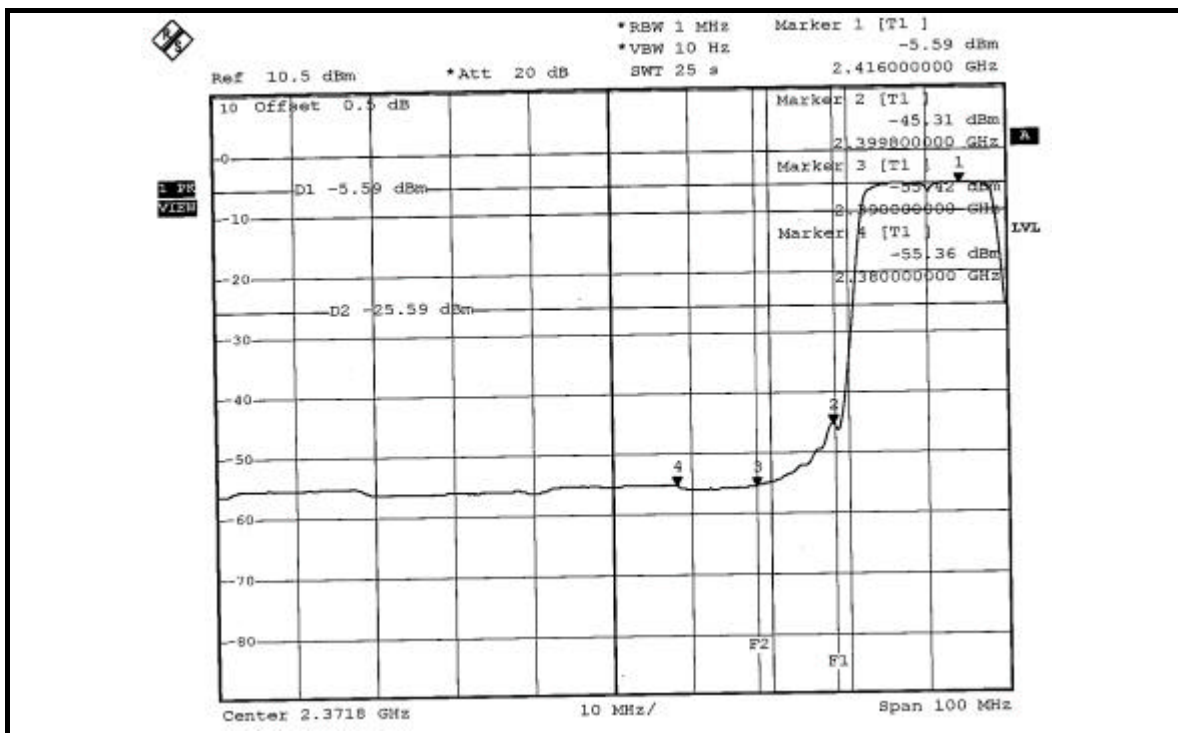
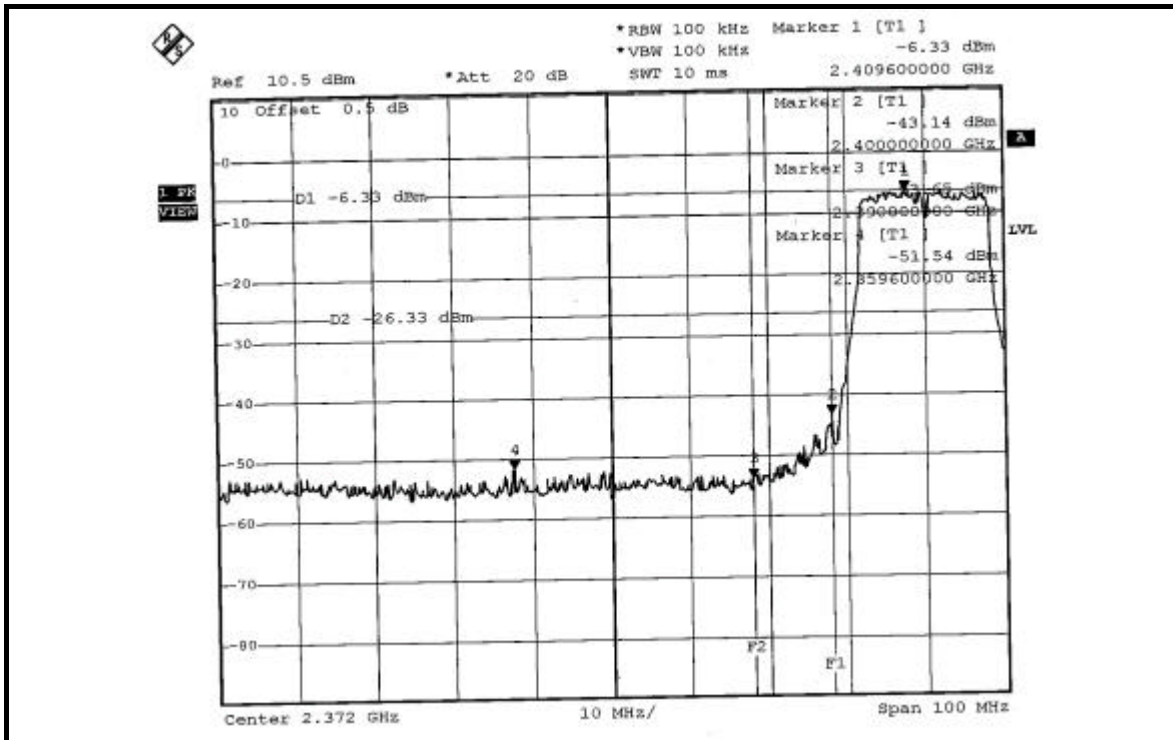
NOTE 1: The band edge emission plot of OFDM technique on the next page shows 45.21dBc between carrier maximum power and local maximum emission in restrict band (2.3596GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.31dBuV/m (Peak), so the maximum field strength in restrict band is $105.31 - 45.21 = 60.10$ dBuV/m which is under 74dBuV/m limit.

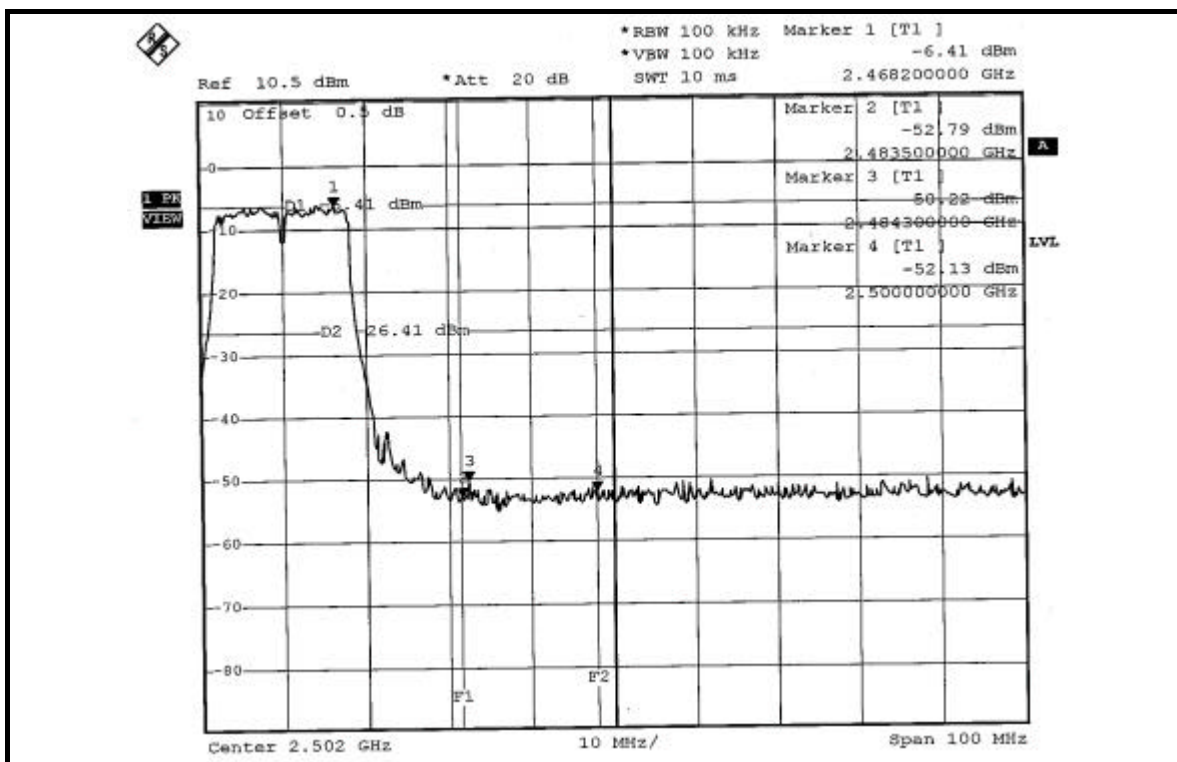
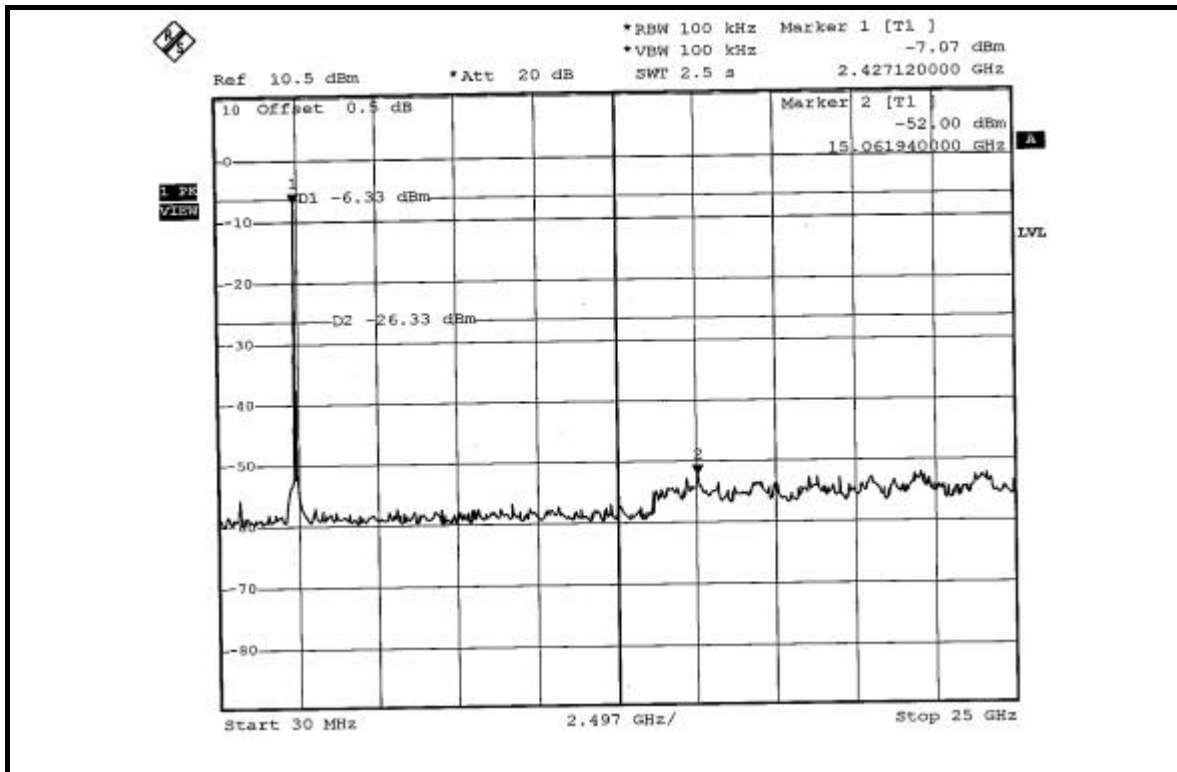
The band edge emission plot of OFDM technique on the next page shows 49.77dBc between carrier maximum power and local maximum emission in restrict band (2.3800GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.98dBuV/m (Average), so the maximum field strength in restrict band is $95.98 - 49.77 = 46.21$ dBuV/m which is under 54dBuV/m limit.

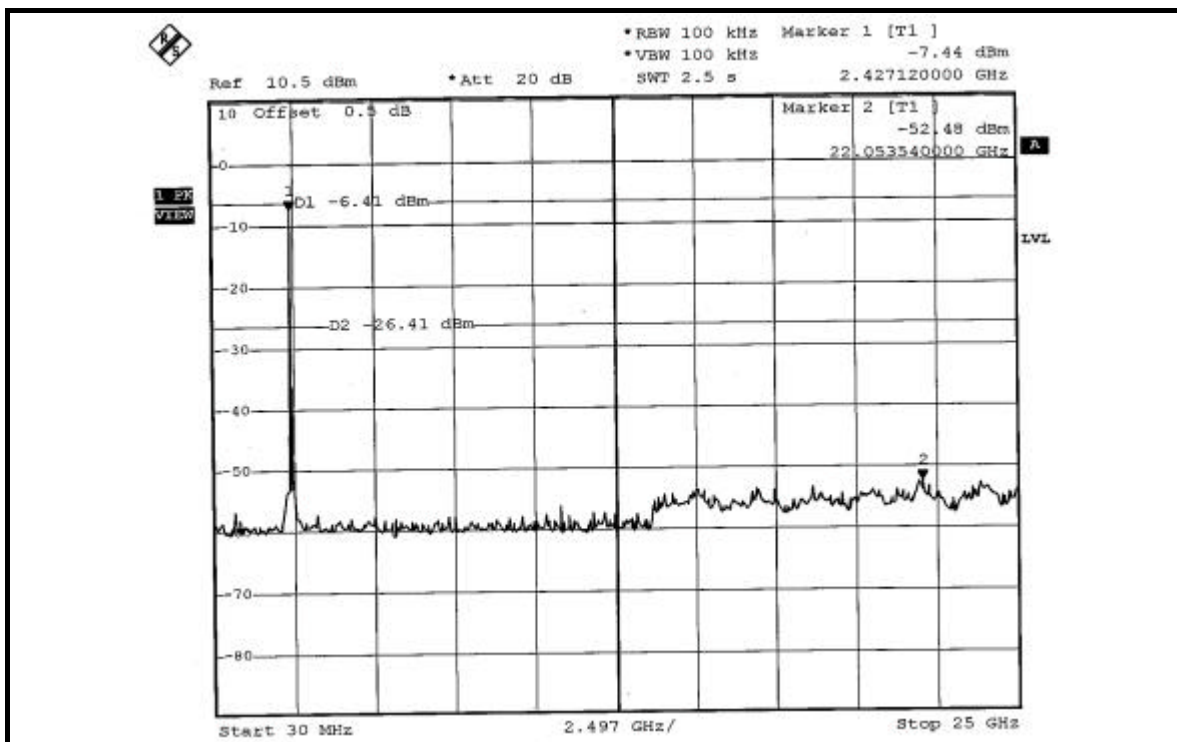
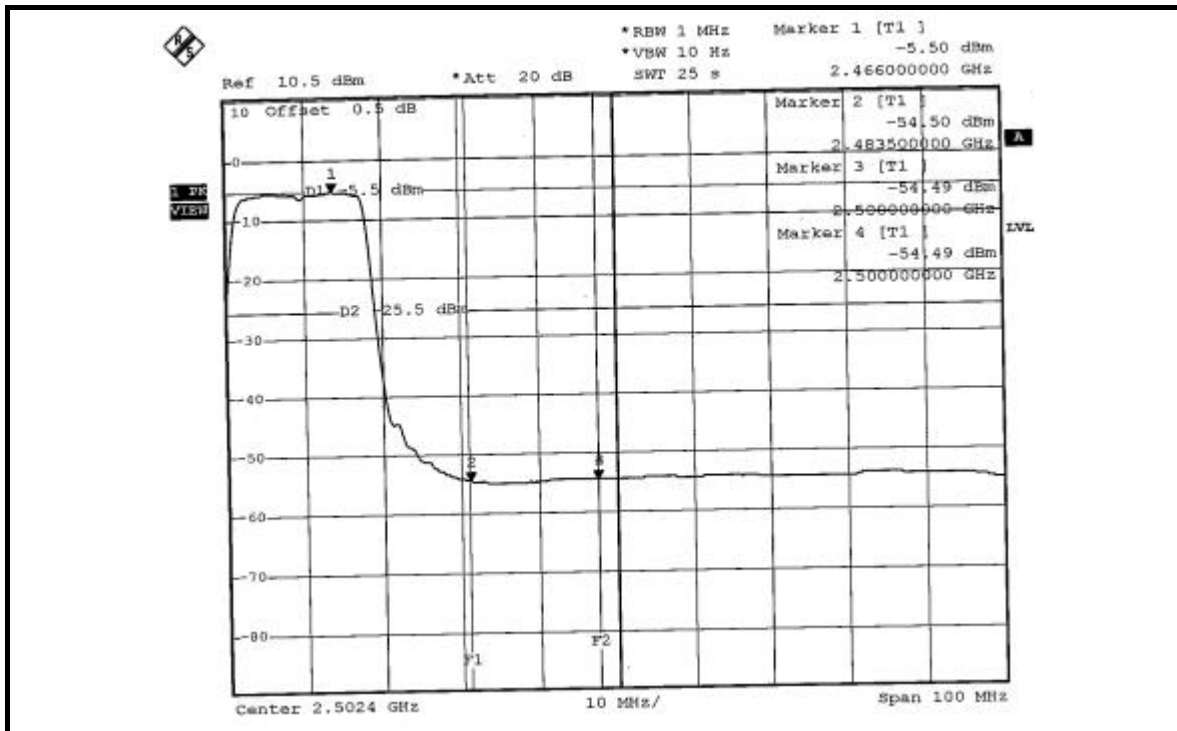
NOTE 2: The band edge emission plot of OFDM technique on the next second page shows 43.81dBc between carrier maximum power and local maximum emission in restrict band (2.4843GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.68dBuV/m (Peak), so the maximum field strength in restrict band is $104.68 - 43.81 = 60.87$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique on the next third page shows 48.99dBc between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.31dBuV/m (Average), so the maximum field strength in restrict band is $95.31 - 48.99 = 46.32$ dBuV/m which is under 54dBuV/m limit.

802.11g OFDM MODULATION









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

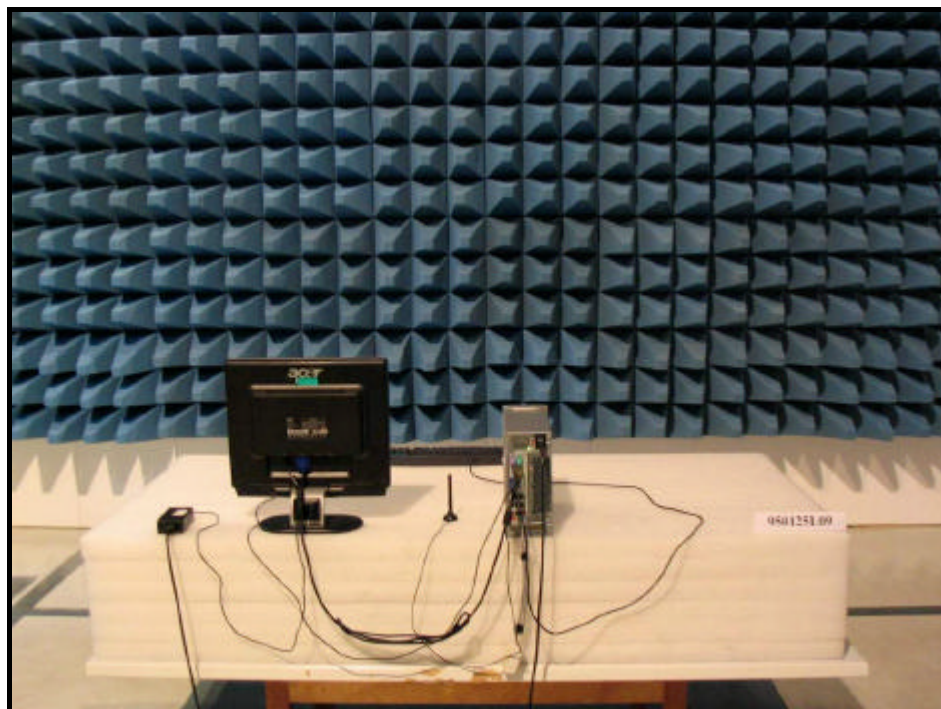
The antenna used in this product is Dipole antenna with RP-SMA antenna connector. The maximum Gain of the antenna is 0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

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

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

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

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Fax: 886-3-3185050

Linko RF Lab.

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Fax: 886-3-3270892

Web Site: www.adt.com.tw

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



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.