



4.7.5 TEST RESULTS (Mode 2)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

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

**802.11a OFDM modulation****NOTE (Peak):**

The band edge emission plot on the following first page shows 49.41dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 106.7dBuV/m (Peak), so the maximum field strength in restrict band is $106.7 - 49.41 = 57.29$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 49.86dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 is 113.1dBuV/m (Peak), so the maximum field strength in restrict band is $113.1 - 49.86 = 63.24$ dBuV/m which is under 74dBuV/m limit.

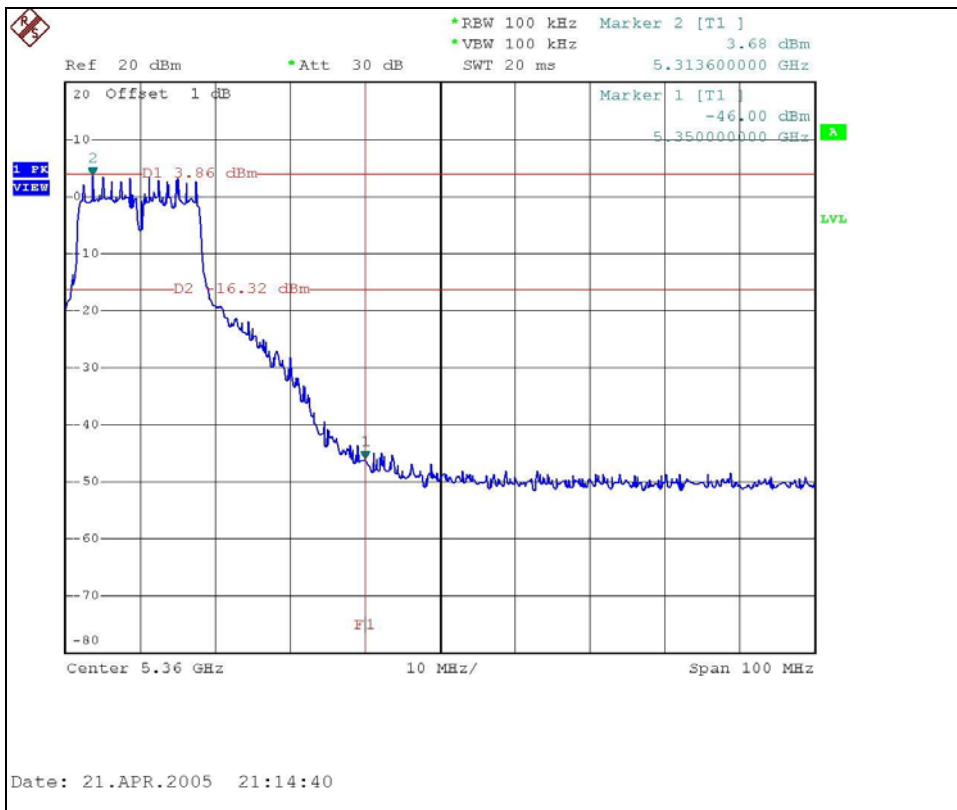
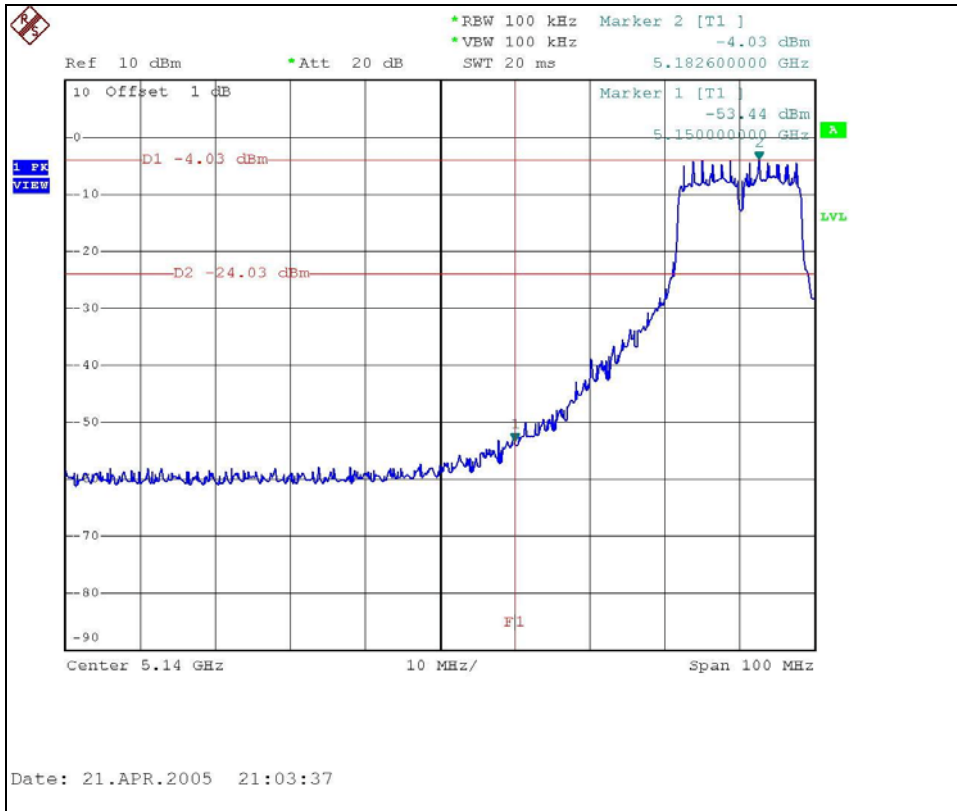
NOTE (Average):

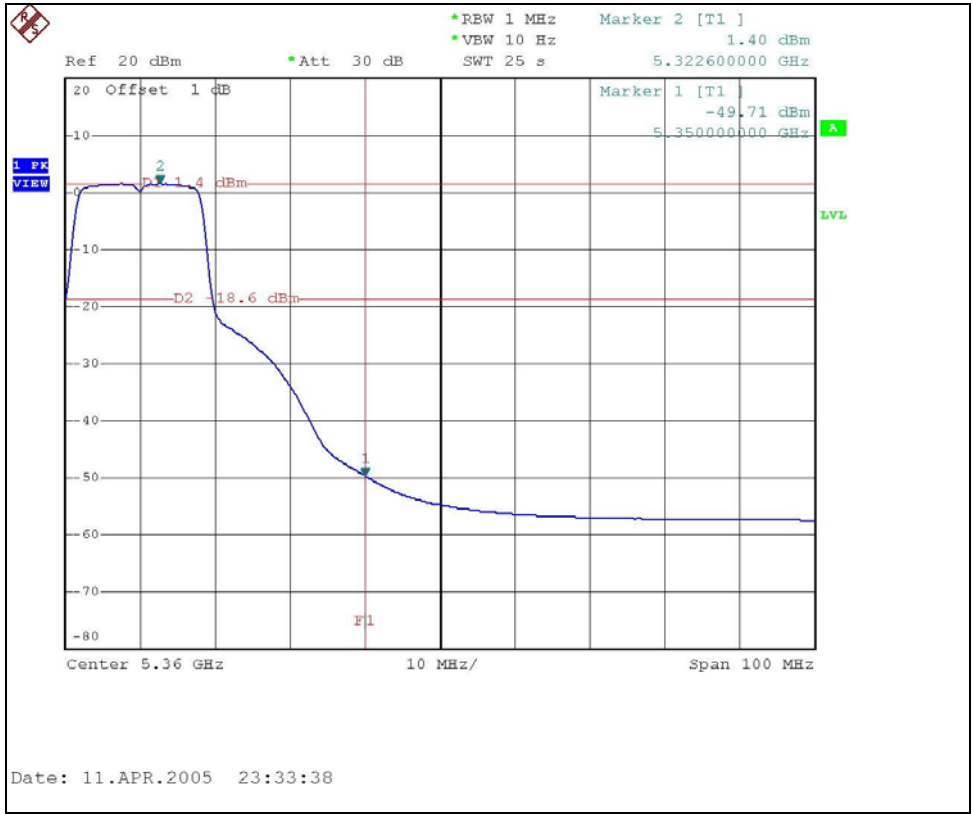
The band edge emission plot on the following second page shows 50.64dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 97.10dBuV/m (Average), so the maximum field strength in restrict band is $97.10 - 50.64 = 46.46$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 51.11dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 is 103.4dBuV/m (Average), so the maximum field strength in restrict band is $103.4 - 51.11 = 52.29$ dBuV/m which is under 54dBuV/m limit.



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NOTE (Peak):

The band edge emission plot on the following first page shows 51.07dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 102.8dBuV/m (Peak), so the maximum field strength in restrict band is $102.8 - 51.07 = 51.73$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 48.98dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 is 100.9dBuV/m (Peak), so the maximum field strength in restrict band is $100.9 - 48.98 = 51.92$ dBuV/m which is under 74dBuV/m limit.

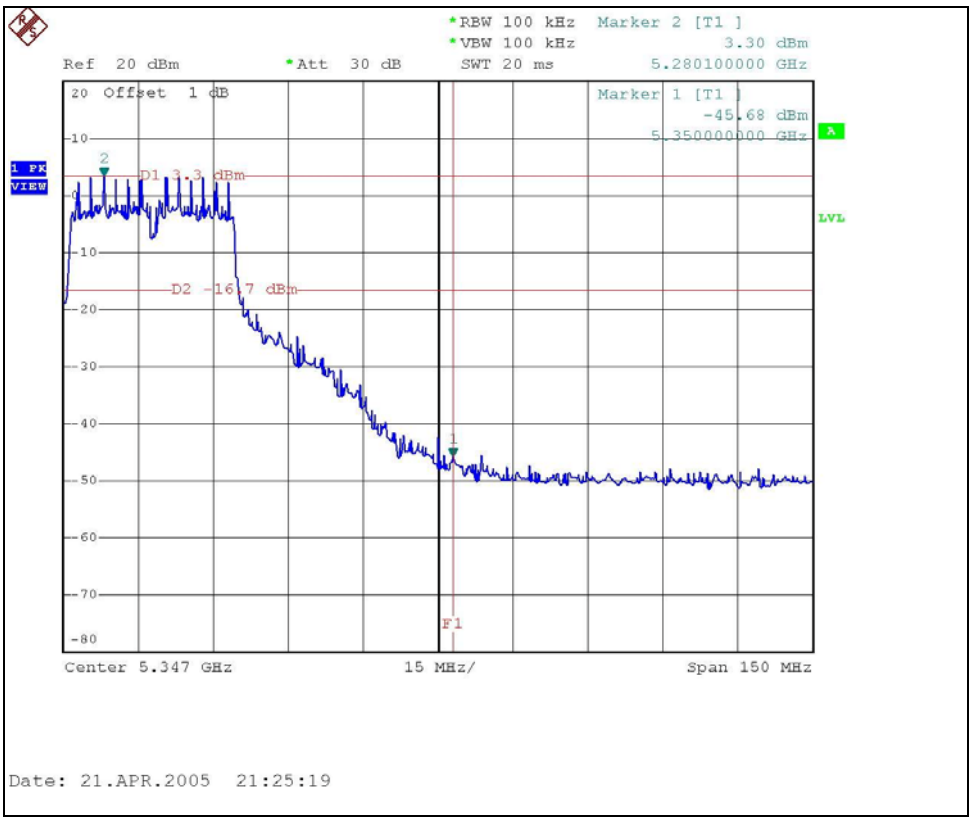
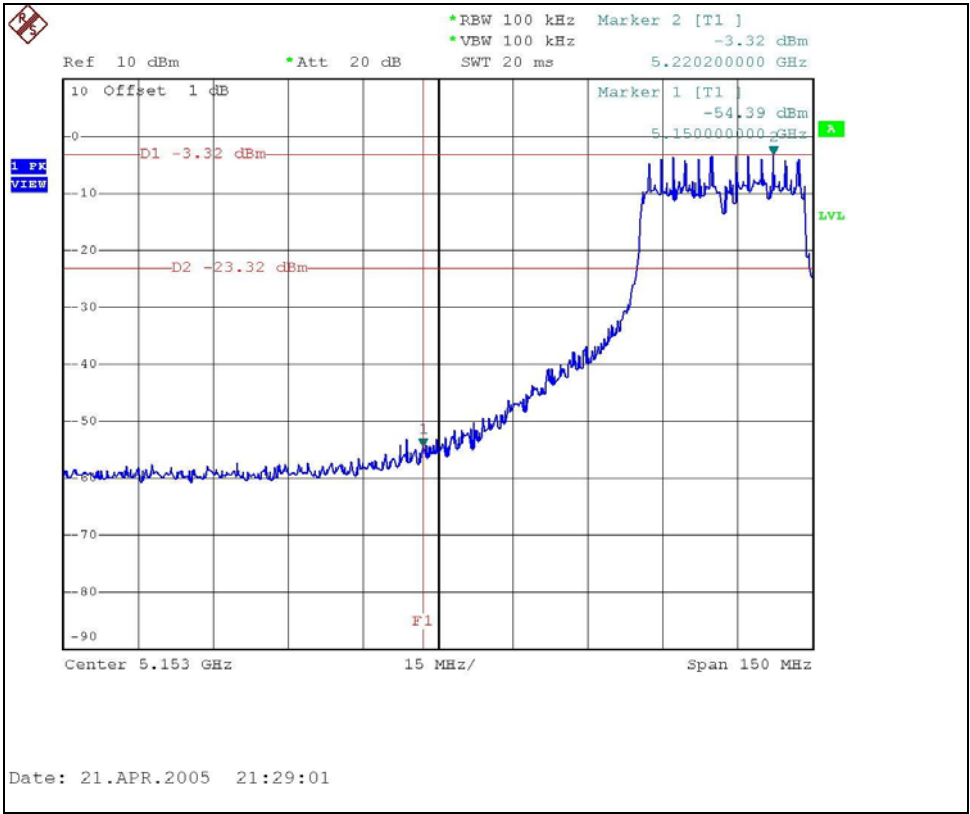
NOTE (Average):

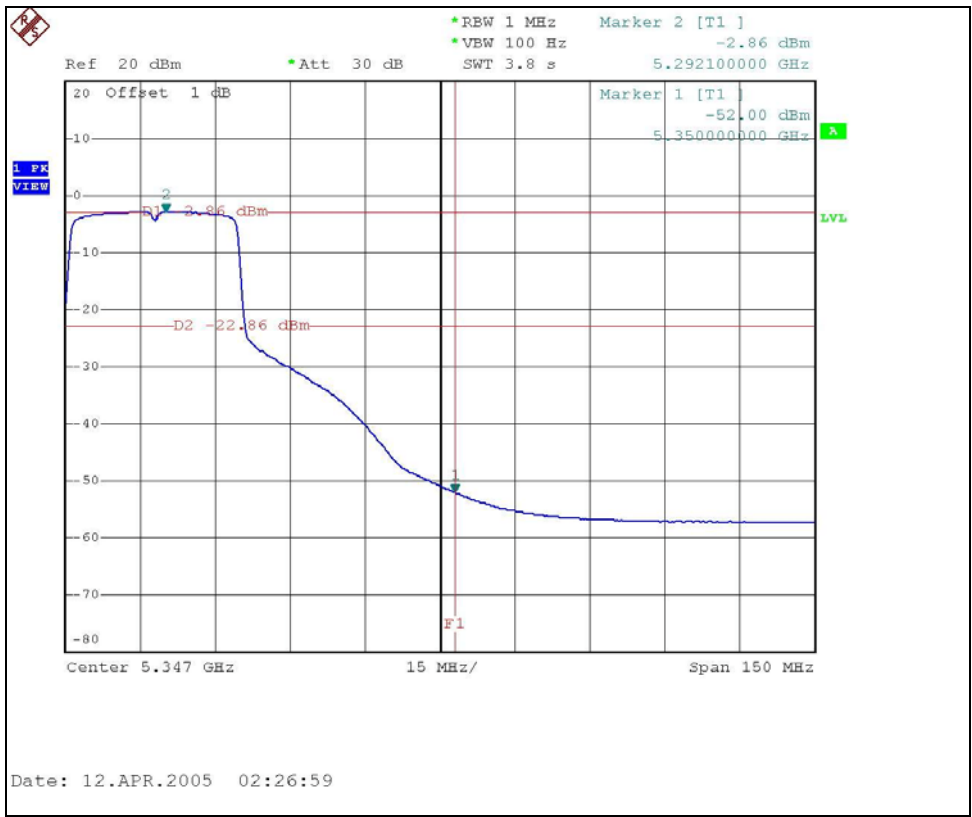
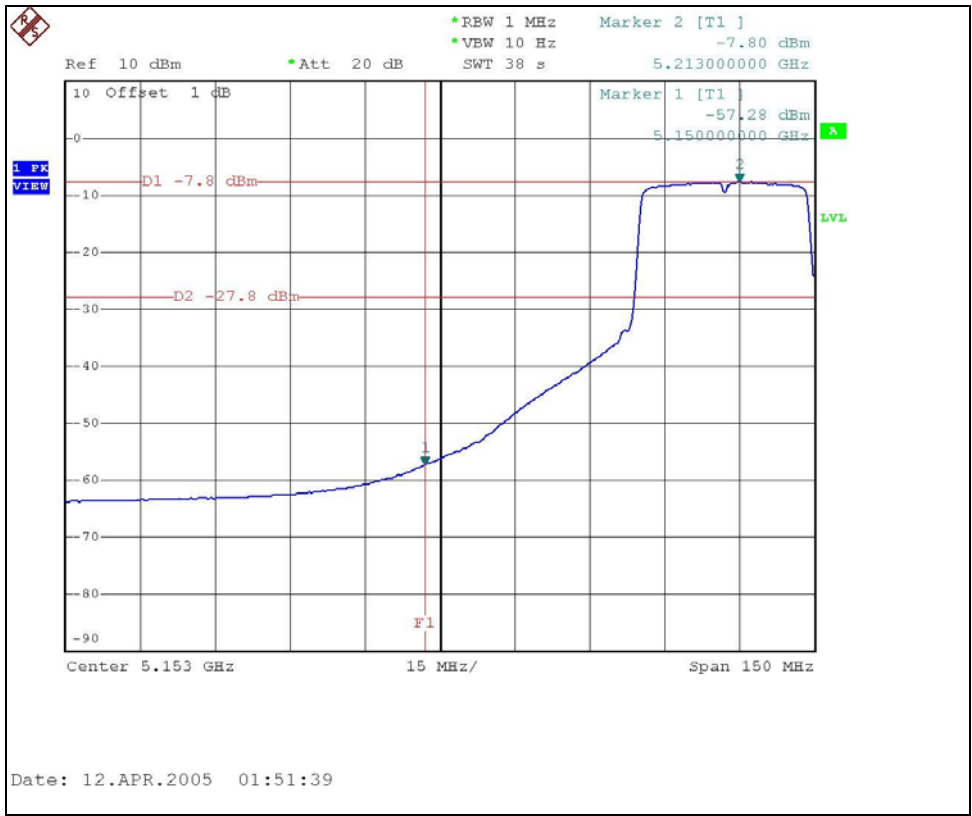
The band edge emission plot on the following second page shows 49.48dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 94.3dBuV/m (Average), so the maximum field strength in restrict band is $94.3 - 49.48 = 44.82$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 48.14dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 is 68.3dBuV/m (Average), so the maximum field strength in restrict band is $68.3 - 48.14 = 20.16$ dBuV/m which is under 54dBuV/m limit.



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4.7.6 TEST RESULTS (Mode 3)

For signals in the restricted bands above and below the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

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



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NOTE (Peak):

The band edge emission plot on the following first page shows 48.36dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 106.3dBuV/m (Peak), so the maximum field strength in restrict band is $106.3 - 48.36 = 57.94$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 54.76dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 is 113.1dBuV/m (Peak), so the maximum field strength in restrict band is $113.1 - 54.76 = 58.34$ dBuV/m which is under 74dBuV/m limit.

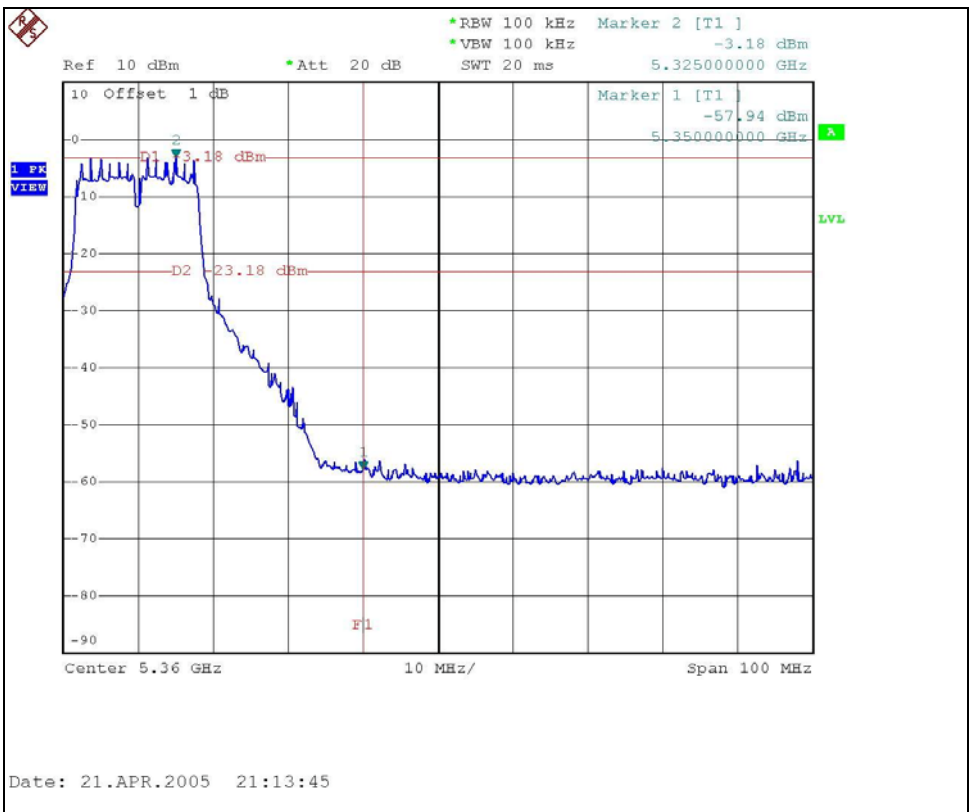
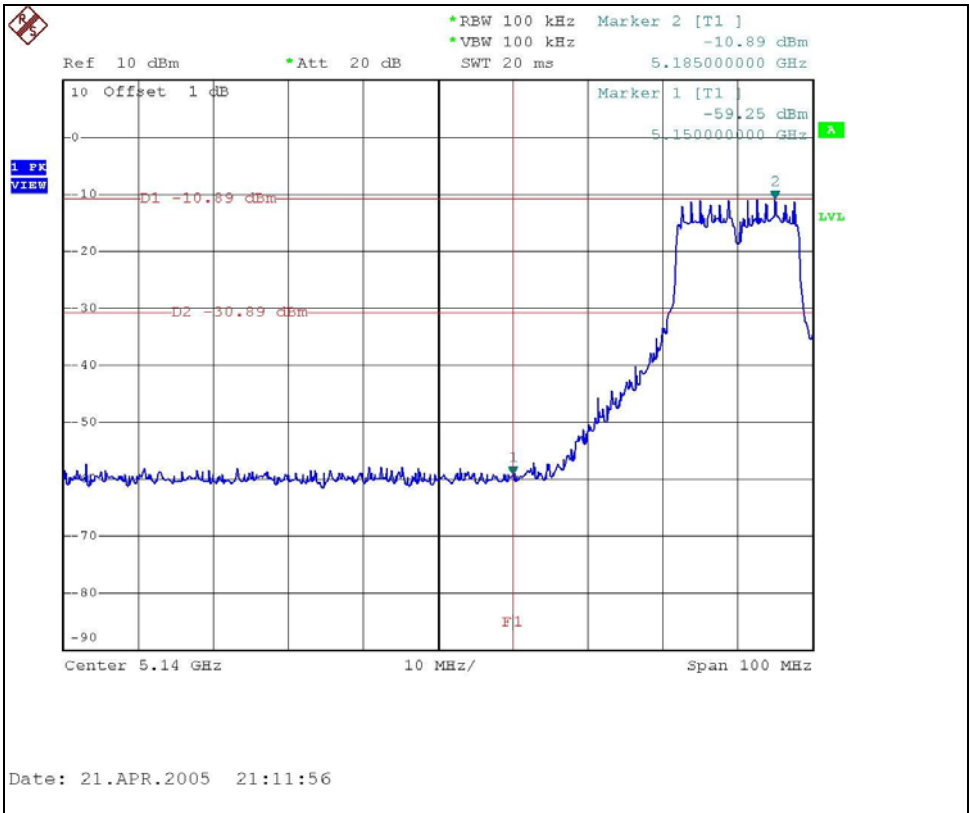
NOTE (Average):

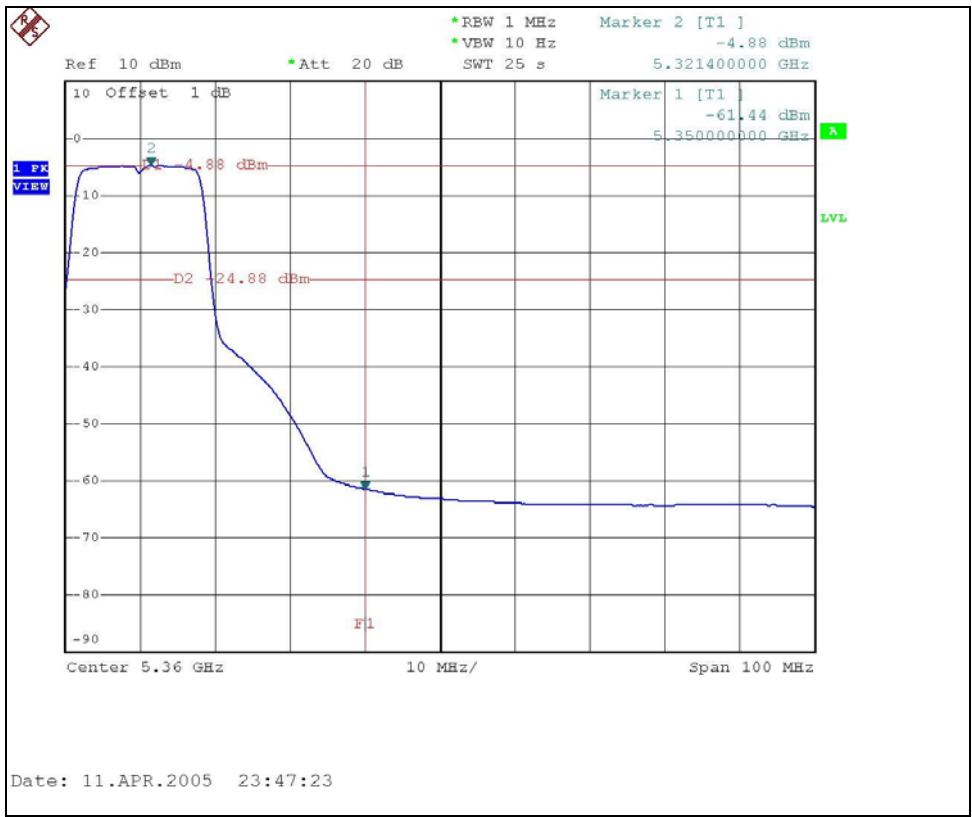
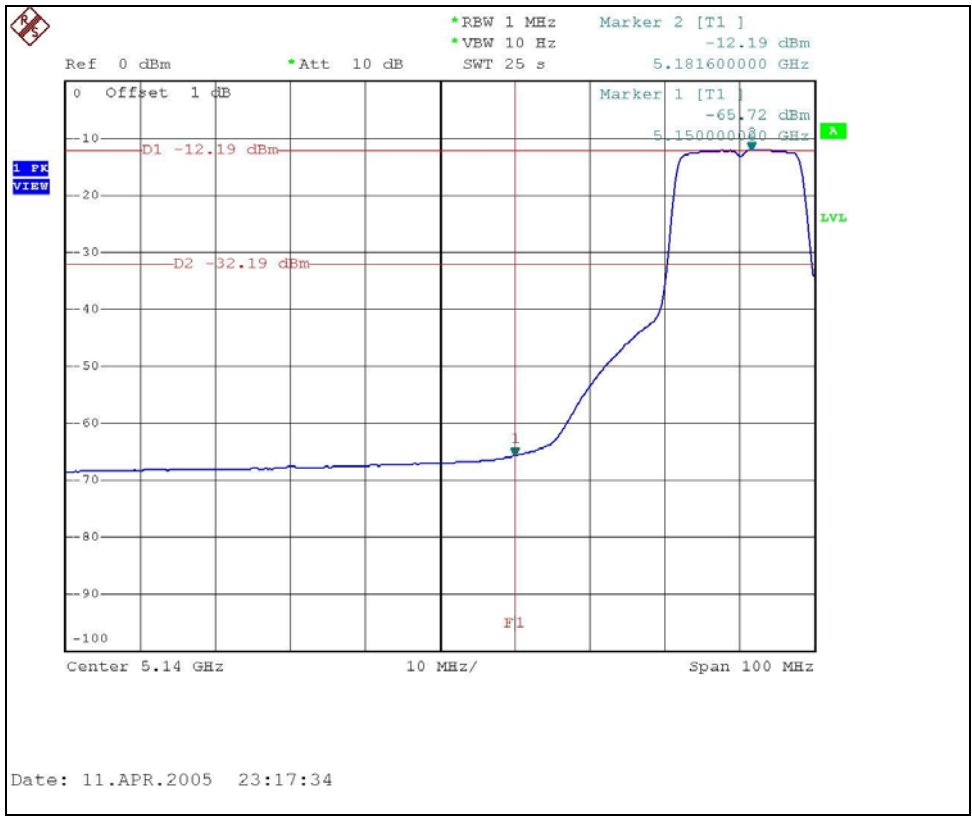
The band edge emission plot on the following second page shows 53.53dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 97.3dBuV/m (Average), so the maximum field strength in restrict band is $97.3 - 53.53 = 43.77$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 56.56dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 is 103.3dBuV/m (Average), so the maximum field strength in restrict band is $103.3 - 56.56 = 46.74$ dBuV/m which is under 54dBuV/m limit.



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NOTE (Peak):

The band edge emission plot on the following first page shows 48.81dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 104.2dBuV/m (Peak), so the maximum field strength in restrict band is $104.2 - 48.81 = 55.39$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 56.26dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 is 110.9dBuV/m (Peak), so the maximum field strength in restrict band is $110.9 - 56.26 = 54.64$ dBuV/m which is under 74dBuV/m limit.

NOTE (Average):

The band edge emission plot on the following second page shows 49.98dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 94.3dBuV/m (Average), so the maximum field strength in restrict band is $94.3 - 49.98 = 44.32$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 54.06dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 is 102.0dBuV/m (Average), so the maximum field strength in restrict band is $102.0 - 54.06 = 47.94$ dBuV/m which is under 54dBuV/m limit.



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