



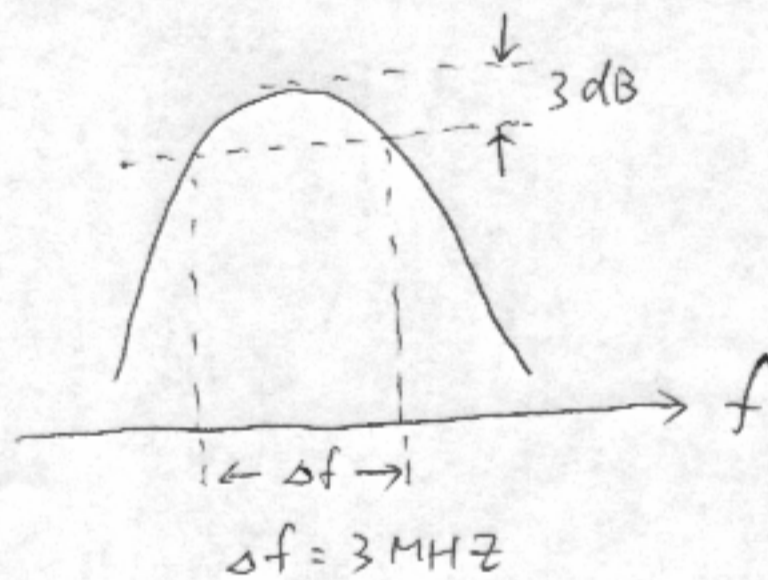
FCC ID: O7JGL2411020700

731 Number: EA98544

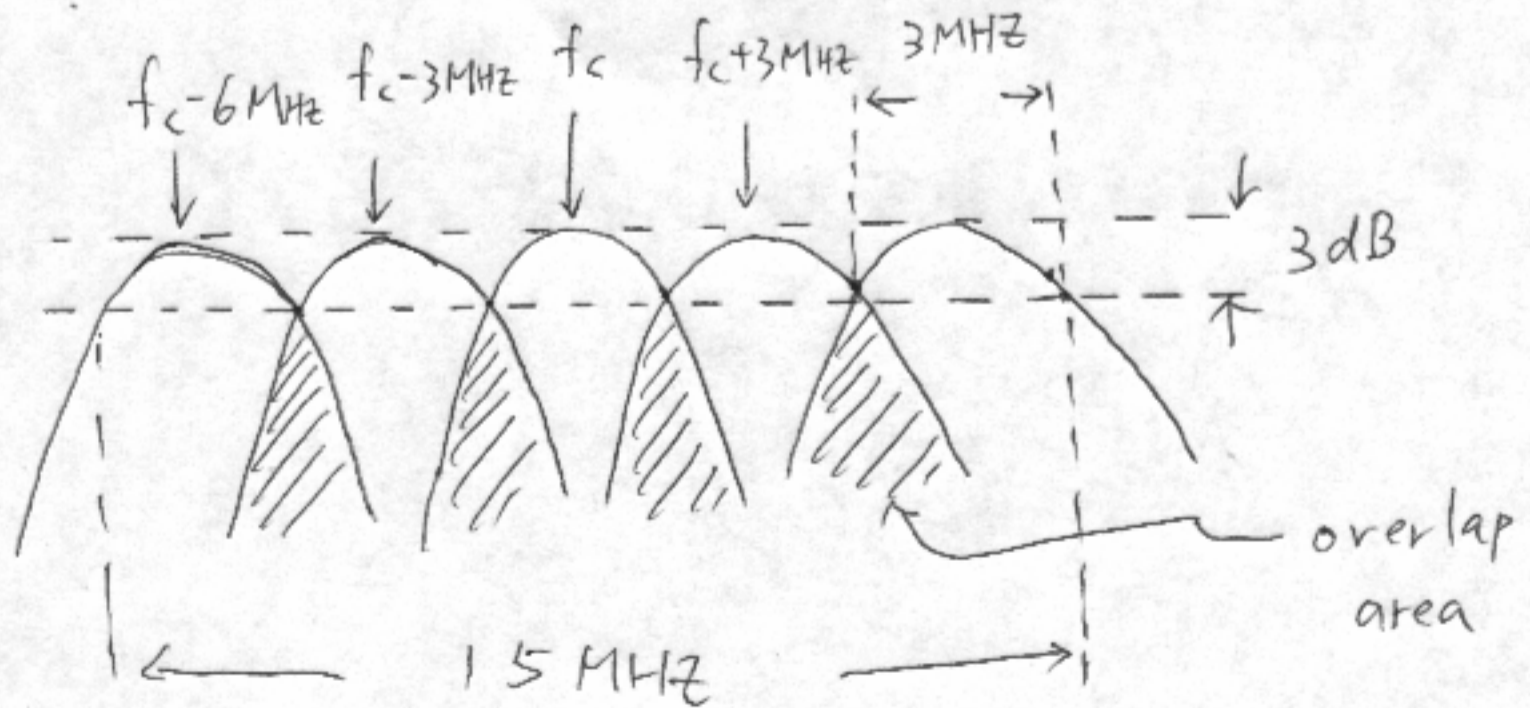
Ref. Number: 16815

Measurement of Output Power

When the RB is set to 3MHz, then the response of the RB filter should be



The filters arrangement of the 5 readings in our measurement.





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The duty cycle of the product under test is 100% which makes the peak power measured result very close average power measured one (peak is of course higher, HP application note 64).

In our measurement (with Maximum Hold Function of Spectrum Analyzer), when the RB of the spectrum analyzer is set to 3MHz, it means the 3dB bandwidth of the RB filter is 3 MHz. The reading is the total power passing the RB filter. So, when you plus reading on fc with that on fc+3MHz, then the overlap area shown on last page is recalculated, but this re-calculation is a compensation for the 3dB drop of the RB filter. In our measurement, we summarized the 5 neighboring readings with center reading on peak power frequency. This summation covers the power in totally 15MHz bandwidth which is wider than 6dB bandwidth. And also this summation covers 4 overlapping areas which means the compensation on the 3dB drop point will make the measured power very close the real power.

Of course, the power outside this 15MHz band is not considered in our measurement, which is the only difference between peak power meter and our measurement. But outside this 15MHz band, the power is small compare to the center frequency power which have very very limited influence on the total power measured.

The following Tables show the comparison as you request. Please be informed, this is a new measurement, the deviation with that shown in test report is within 1dB.

Channel 1, fc (peak power frequency) = 2411.22MHz							
Freq.	fc-6MHz	fc-3MHz	fc	fc+3MHz	fc+6MHz	Sum	Power Meter
power	3.1mW	8.7mW	10.6mW	6.1mW	1.9mW	14.8dBm	15.3dBm

Channel 6, fc (peak power frequency) = 2438.88MHz							
Freq.	fc-6MHz	fc-3MHz	fc	fc+3MHz	fc+6MHz	Sum	Power Meter
power	6.1mW	7.9mW	9.8mW	3.4mW	0.8mW	14.5dBm	15.1dBm

Channel 11, fc (peak power frequency) = 2461.33MHz							
Freq.	fc-6MHz	fc-3MHz	fc	fc+3MHz	fc+6MHz	Sum	Power Meter
power	1.8mW	7.2mW	10.5mW	7.6mW	2.8mW	14.8dBm	15.2dBm

The total power measured by Peak Power Meter is maximumly only 0.6dB higher than that of our method, which have little influence on the RF exposure information.