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As a manufacturer, you care about product design and manufacture, and it is also your responsibility to ensure that your devices don't harm the users. The Federal Communications Commission (FCC) regulates airwaves and the responsibility of FCC is to ensure that communication systems operate without interference. Depending on the type of electrical or electronic device you manufacture, you have to obtain FCC certification. Verification and certification of products is required for licensed and unlicensed devices. Everything from a simple radio transmitter to more complex cellular base station must obtain the necessary certification to launch the product to the market.

The verification process for wireless testing is simple and it completes when declaration of conformity is drawn. The manufacture of the product should declare conformity ensuring that the product emissions are within limits as dictated by Part 15c directives. In order to verify the device, the product must be submitted to an accredited test laboratory. Different testing procedures will be employed by the laboratory to ensure that emissions are well within the limits. If the testing proves otherwise, then changes must be made in the product design. Once the test report reaches the manufacturer, declaration of conformity can be submitted stating complete product details.

If your products use intentional radiators using the frequency in the governed spectrum, then FCC certification testing becomes mandatory. Here also, an accredited testing lab can help you out in testing and reporting the product compliance. After obtaining the test report, it must be submitted to the FCC to obtain necessary certification. The quality of testing and report greatly depends on the independent testing lab performing the tests and so, it is important to hire best engineers to do the job. It is better to hire a testing company that performs pre-compliance testing so that changes are made to the product design before problems can show up.

After test lab is authorized by the manufacturer, application must be sent to FCC to obtain Grantee Code. When Grantee code is received from FCC, the testing lab will commence evaluation of the product. Different standards govern compliance of the product and it is the responsibility of the wireless testing company to figure out applicable standards. Then, testing process must be designed to ensure that the wireless device and transmitter is compliant with the standards. The test report should detail the types of tests, equipments used and test results. FCC certifies the product solely based on this test report and that is why manufacturers should choose testing companies that can help them to get FCC approval.

FCC certification may take anywhere from 8 to 12 weeks and once the test report is submitted, there is nothing you can do until you get the certificate. The entire certification process can be done smoothly with an independent testing lab that can work closely with TCB. To ensure successful certification, understanding of FCC rules is essential. When the testing company moves the paperwork, the time-to-market for the product will be reduced and so, manufacturers should invest their time to find the right testing laboratory to obtain the necessary certification.

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