



BT 2.nd harmonic

Additional information for listed question number 6:

6. Multiple plots in the BT radiated emission report (pp.15-18) show peak emissions of the 2nd harmonic exceeding the average limit. There is one set of tabular data on p.19. Please confirm that this data is representative of the worst case emissions shown in the previous plots. Again, the resolution is so poor as to barely be able to read the plots and tabular data.

The test sample is always tested in 3 different orientations denoted X, Y and Z at each transmitter frequency and over the full test range from 30 MHz to 25 GHz in two polarities. The device is measured in different fixed angles for each orientation to cover a pre-view of the emissions over 360 degrees.

Definitions of the used X, Y and Z test orientation:



All the pre-scans are reviewed to find the worst case scenario based on these initial measurements. The worst case responses are further analyzed for compliance using the average detector in a final measurement where the test sample is rotated full 360 degrees with 0.25 degree resolution while transmitting in order to measure the maximum level of the detected emission.

These data are shown in tabular format in the test report under the pre-scan graph that is reviewed to be the worst case emission. In special cases other FCC rules are applied to show compliance with the CFR47 part 15 regulations.

The report has been updated with more clear graphs and tables for the identified section.

EMC 22302-1 Pearl (WiFi) TA BT FCC 15.247-report2.pdf