Claims

1. A method for coexistence and spurious mitigation in multicom platforms formed by a plurality of communication devices, the comprising:
    a) receiving signals from the plurality of communication devices;
    b) defining a number of signals and their corresponding frequencies from the signals being received from the plurality of communication devices;
    c) defining bands of interest by determining a channel frequency and its bandwidth;
    d) generating a Binary Coded Decimal (BCD) code and a sign for each signal frequency per BCD code;
    e) analyzing the received number of signals and their corresponding frequencies to identify spurious emissions and interferences within the defined bands of interest;
    f) generating a mitigation plan based on the analysis, wherein the mitigation plan includes a spurious map generated based on BCD code and sign permutations; and
    g) transmitting the mitigation plan including the spurious map to the communication devices for mitigating the spurious products.
2. The method of claim 1, wherein defining the number of signals further includes selecting from Local Oscillator (LO), Intermediate Frequency (IF), Clock (CLK), or Crystal Oscillator (XTAL) signals.
3. The method of claim 1, further comprising determining the frequency, power, and timing characteristics of the received signals to identify the spurious emissions and interferences.
4. The method of claim 1, further comprising assigning specific frequency bands or channels to the communication devices to minimize the spurious emissions and interferences.
5. The method of claim 1, further comprising adjusting transmission power levels of the communication devices to reduce the spurious emissions and interferences.

6. The method of claim 1, further comprising dynamically updating the plan based on changes in the operating environment or performance of the communication devices.
7. A system for coexistence and spurious mitigation in multicom platforms, formed by a plurality of communication devices, the system comprising:
    a) a receiver configured to receive signals from the plurality of communication devices;
    b) a circuitry configured to analyze the received signals to identify spurious emissions and interferences;
    c) a circuitury configured to generate a mitigation plan based on the analysis, wherein the mitigation plan including a spurious map, wherein the spurious map is generated based on Binary Coded Decimal (BCD) code and sign permutations; and
    d) a transmitter configured to transmit the mitigation plan to the communication devices for mitigating the spurious products.
8. The system of claim 7, wherein the circuit configured to analyze the received signals further comprises a signal processing circuitry for determining the frequency, power, and timing characteristics of the received signals to identify the spurious emissions and interferences.
9. The system of claim 7, wherein the circuit configured to generate a plan further comprises a circuit for assigning specific frequency bands or channels to the communication devices to minimize the spurious emissions and interferences.
10. The system of claim 7, wherein the circuit configured to generate a plan further comprises a cicruit for adjusting transmission power levels of the communication devices to reduce the spurious emissions and interferences.
11. The system of claim 7, wherein the circuit configured to generate a plan further comprises a circuit for dynamically updating the plan based on changes in the operating environment or performance of the communication devices.