Hi Dennis,

I believe that the questions being asked in the KDB are listed in the filing document 5A Test Report which I have copied, highlighted in red and underlined the pertinent information below for clarification:

5A Test report page 2:

5.1   Test Strategy

Verification of the performance of the Motorola, Inc. OSU-2510-R transmitter was accomplished by implementation of the procedures contained within TIA/EIA-603 and FCC requirements. Performance results contained within this Test Report and Appendix documents represent operational modes that are considered to be worst case within a functional system. Verification of product performance is presented for three frequencies across the RF bandwidth, two channel bandwidths, and four modulation levels available within an operational system. The Motorola, Inc. OSU-2510-R product has been tested with equipment that is generally available in the open market. The primary requirement for the measurement of the OSU-2510-R product is that the spectrum analyzer contain a time gating function to facilitate the measurement of the channel power and emissions mask. The time gating function is configured to only allow the spectrum analyzer to sweep when the transmitter is active. Measurements performed on the OSU-2510-R product were performed with an Agilent E4440A spectrum analyzer with the time gating capability.

The Expedience system protocol utilizes all sub-channel carriers on each transmission burst. The Expedience system protocol does not make use of subchannelization. All carriers are utilized for each transmission. The Expedience system protocol does not allow for a mixed transmission within a single burst, i.e. all data within a single burst or transmission is one modulation type (4-QAM, 16-QAM, or 64-QAM). The same modulation is transmitted for the entire burst. To facilitate the product development, a test mode configuration was developed. The test mode allows for the selection of channel frequency, modulation bandwidth, and modulation type (4-QAM, 16-QAM, 64-QAM, …). Within the test mode, a pseudo random bit sequence is used to generate the transmitted data.

Emissions measurements (conducted and radiated) were also completed for both modulation bandwidths that are requested on the 731 form. Additional information on the system and modulation can be found in the section 13 Technical Description document.

Regards,
Tim Blom