

May 10, 2002

RESPONSE TO QUESTIONS

Reference:

Correspondence Reference Number: 4093
731 Confirmation Number: TC555372
Date of Original Email: 05/07/2002

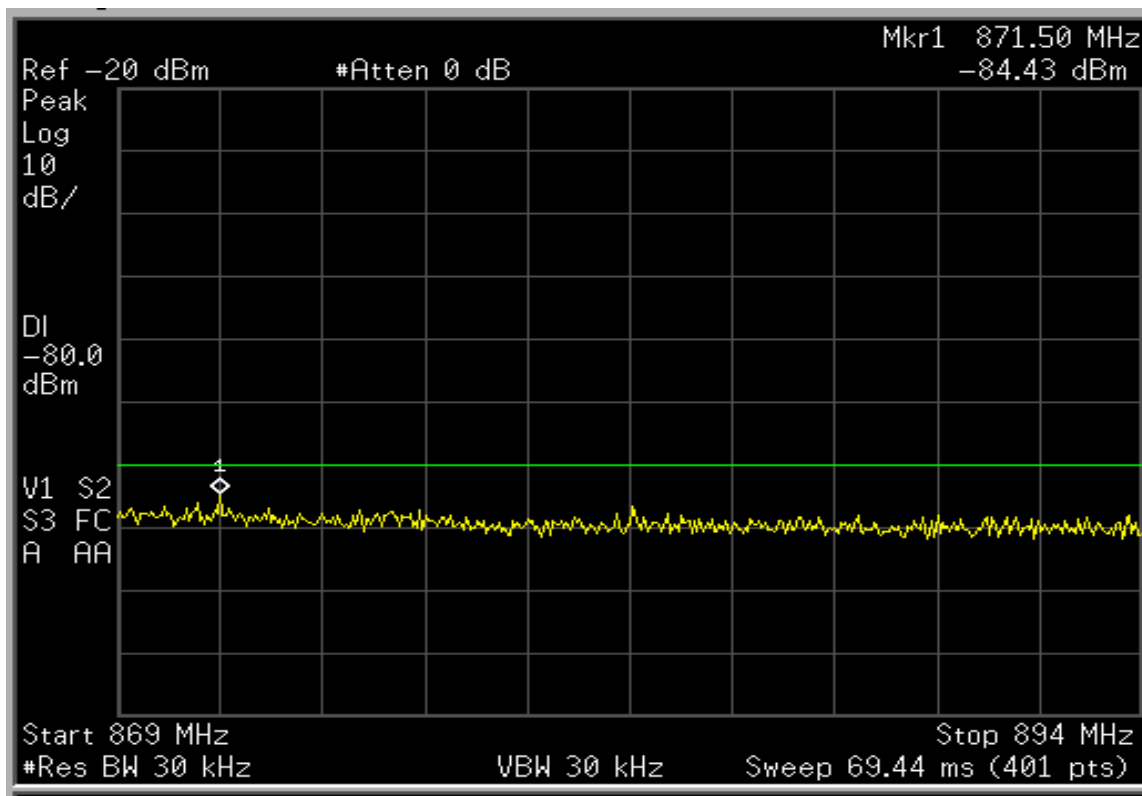
EMC

1) Letter stating compliance with ESN and 911 calling requirements of 22.919 and 22.921.

RESPONSE: In the original submission, both the ESN and 911 statements were located in Operational Description (Exhibit 12) to facilitate exhibit confidentiality. However, this exhibit had a collation error and the statements were not located as described in the table of contents. A revised exhibit 12 is attached.

2) Measurement data showing compliance with 22.917(f) while in the 800 MHz CDMA mode.

RESPONSE: Refer to the following plot.



3) A statement detailing how the burst nature of the TDMA modes was addressed during power/emission measurements.

Response: The burst nature of the TDMA mode was addressed during power measurements with the use of a Gigatronic 8652 power meter and 80701 power sensor. The power meter was configured for Burst Average Power (BAP).

The burst nature of the TDMA mode was addressed during emissions measurements using a spectrum analyzer in peak detect mode with the ' Max Hold' function selected for the active trace.

4) Justification for necessary BW for each mode according to 2.202 (c).

RESPONSE: Refer to the bandwidth calculations in revised Exhibit 12A.

5) Complete parts lists.

RESPONSE: Refer to revised exhibit 10A.

6) Please revise the tune range stated on the grant. The 800 MHz values appear to be incorrect. They appears to be block range as oppose to tuning range.

RESPONSE: 824.04 MHz – 848.97 MHz

SAR

RESPONSE: A new users manual is included in response to question 2. Refer to the supplemental SAR report for the other SAR issues.

1) Statement detailing "extrapolation" performed on SAR values reported in the summary tables. Please justify the power levels used for testing. SAR testing at or above EMC testing power levels is recommended by Supplement C.

2) Updated users manual. SAR values included did not agree with those in the SAR report.

3) Statement of compliance with FCC RF exposure requirements. Such a statement could not be located.

4) Justification for the body-worn test configurations used. It appears that the leather case was only tested at 1900 MHz while the clip was only tested at 800 MHz. Also, please describe the testing performed for the "rubber" phone cover pictured on page 19. No results or test photographs were located. Please provide all appropriate data/details.

5) Discussion of how the EUT was operated/controlled during the test to assure the testing of all appropriate modes, maximum power, and any duty factor driven parameters. Supplement C Appendix B part I 2.

6) Additional description of the SAR measurement system. Please describe the main components of the system and how the SAR measurements are actually performed once setup: include coarse scan, determination of peak SAR location, scans to measure points in 1 gram volume, and procedure to determine SAR value from the measurement points. Per Supplement C Appendix B part II 7 and 8. Please include additional description/photographs of the phantom.

7) Justification for use of 6.5 as the conversion factor for 835 MHz head liquid. Calibration certificates suggest 6.4 should have been used.

8) Additional SAR test plots. Plots for at least for the highest SAR point for each band in each test configuration should be provided.