

30 Nov. 2006

RE: Eastman Kodak, FCC ID: PA46800, ATCB4249

TÜV SÜD America response to ATCB comments dated 22 Nov. 2006

(ATCB)

1: Page 15 of the Kodak test plan, paragraph 12.1 states that AC line conducted emissions was to have been performed, however I did not see that data included in the report. Please provide.

Original report revised. WC605657.2 Rev A now includes conducted emissions data.

2: Page 4 of 42 of the test report. Please outline the derivation of the 13.56 MHz fundamental limit of 29.5 dB μ V stated under the table

29.5 dB μ V/m = 30 μ V/m
dB μ V = $\log(\mu\text{V}) \times 20$

3: Please provide information supporting the 32 dB per decade extrapolation used on page 4 of 42

We typically gather at least 3 measurements over distance when characterizing small signals. Then plot the roll off, dB vs. Distance (on a log scale), to determine an extrapolated value at the limit distance. In this case, the measurement at 0.3 meters = 68 dB μ V/m and at 1 m = 52 dB μ V/m. At 3 meters, the measurement was influenced by our noise floor, therefore unused. The decrease from 0.3 m to 1 m was used to determine a 32 dB per decade in distance roll off. Therefore, 68 dB μ V/m at 0.3 m - (2 x 32) = 4 dB μ V/m at 30 m. This final value is conservative given the theoretical roll off is approximately 40 dB per decade.

4: Please confirm that the BW plot provided shows the 99% occupied BW (required by Industry Canada)

The revised report's test result summary for occupied bandwidth (pg 17) now states that the bandwidth is between 100 & 200 kHz instead of a fixed 127 kHz. This data correlates with the plot. Industry Canada has no bandwidth limit.

Greg Jakubowski
Sr. EMC Technician / Technical Writer



A handwritten signature in blue ink that reads 'G. Jakubowski'.