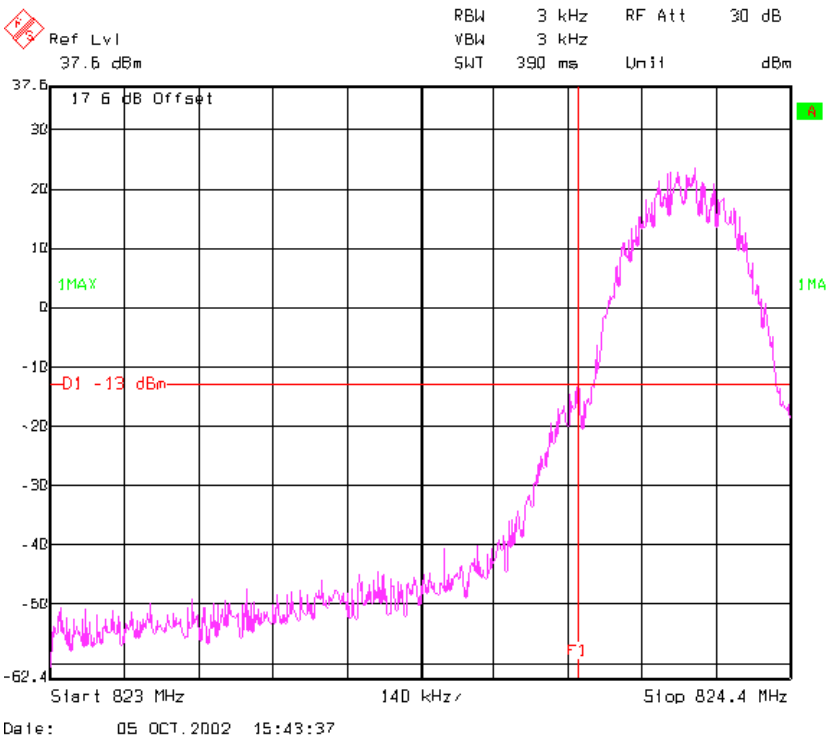
Responses to correspondence 6095

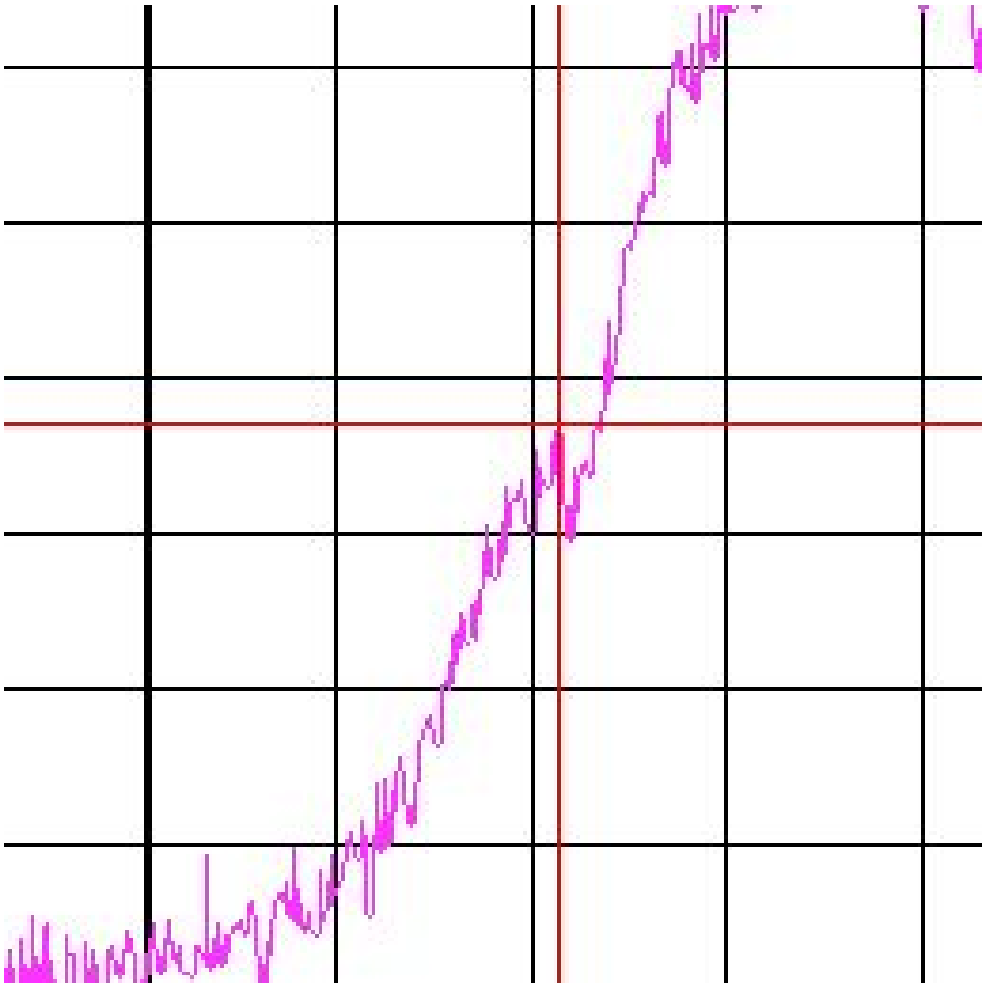
Re: FCC ID:PWX-A56

Question:
1) Justification for compliance at band edge for conducted spurious emissions. Data plot on page 60 of 85 appears to demonstrate noncompliance. Please provide zoomed in plots around the area of apparent noncompliance.

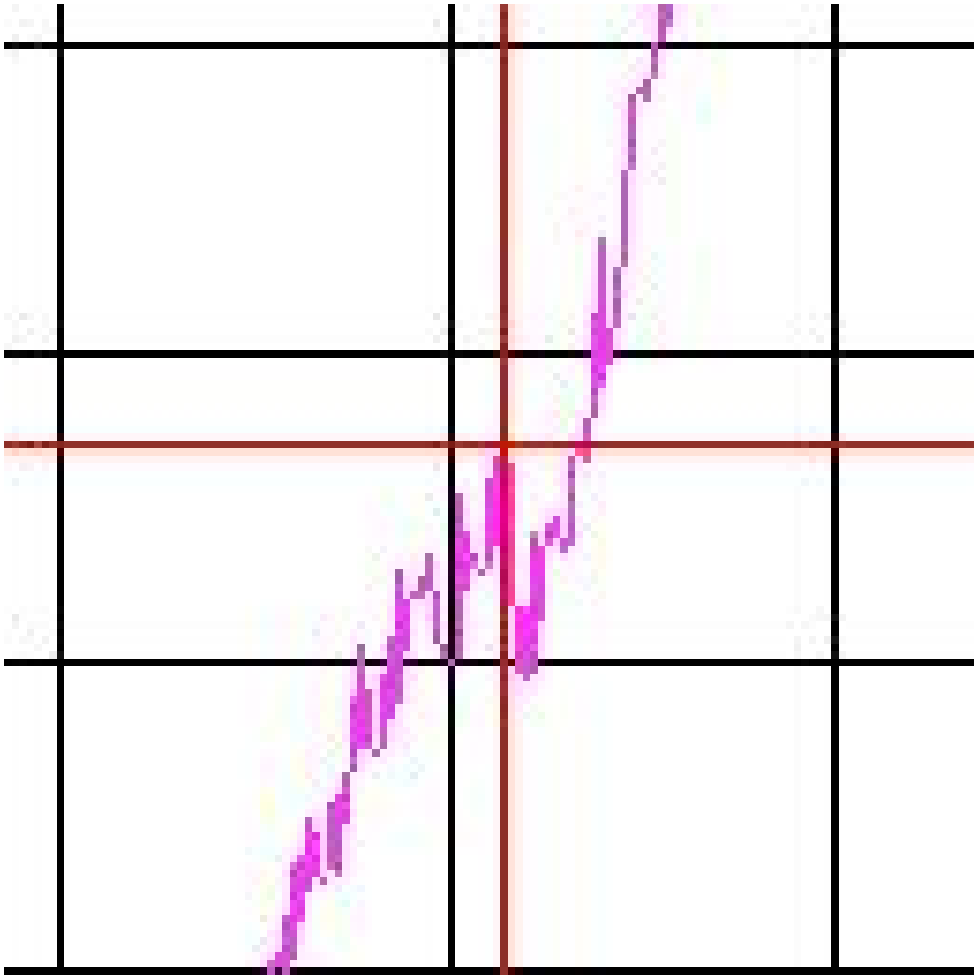
Answer:
The spurious emission referred to was below the limit of –13dBm. The plot in the test report does not clearly show either passing or failing. This is due to software conversion of the image. When directly importing the analyzer image to a MS Word file the position of different colored lines can sometimes shift slightly in relation to other colored lines. I opened the plot with a photo-editing program, which should accurately display the plot. The plots then clearly show compliance as was previously measured on a spectrum analyzer. I have included the plot and zoom images of the plot below. Since this measurement was taken in peak hold mode and is being compared to an average limit it is clear the device is compliant.



1X magnification



2X magnification

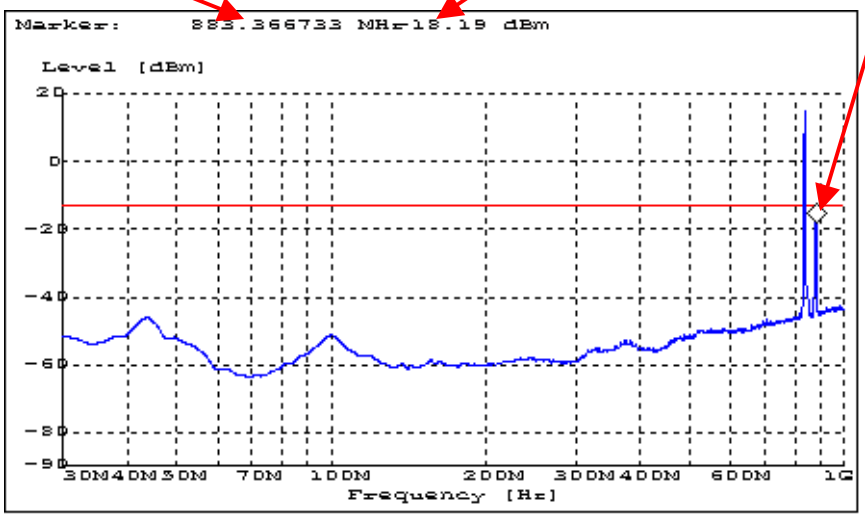


4X magnification

Question:
2)Zoomed in plots for large spurs at 870 MHz seen in radiated spurious data for 835 band. Please also measure these spurs using the substitution method, provide spectral plots for these measurements.

Response:
The plots in the test report very clearly show that the emissions around 870MHz are below the limit of –13dBm. There is a marker on each of these emissions showing frequency and level. We use Rohde & Schwartz spectrum analyzers which you may not be used to. I have included below one plot from page 38 of the test report, with some arrows to help you in understanding our spectrum analyzer plots.

marker frequency **marker level** **marker**



Below is the measurement procedure on page 33 of the test report. I cut it directly from the report and enlarged two words. This report make it perfectly clear that substitution was used. If this is somehow not adequate, please let us know what is required.

D) Detected emissions were maximized at each frequency by rotating the test item and adjusting the receive antenna height and polarization. The maximum meter reading was recorded. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth. If the harmonic could not be detected above the noise floor, the ambient level was recorded. The equivalent power into a dipole antenna was determined by the **substitution method** described for ERP measurements.

Question:
Data plots showing compliance to 22.917(f). Plots referenced on page 32 of 85 could not be found.

Response:
Below is from page 32 of test report. I am attaching the referenced document:
FCC_A56_Noise_in_RX

MOBILE EMISSIONS IN BASE FREQUENCY §22.917(f)

These measurements are provided by SIEMENS.
Please refer to attached document: **FCC_A56_Noise_in_RX**