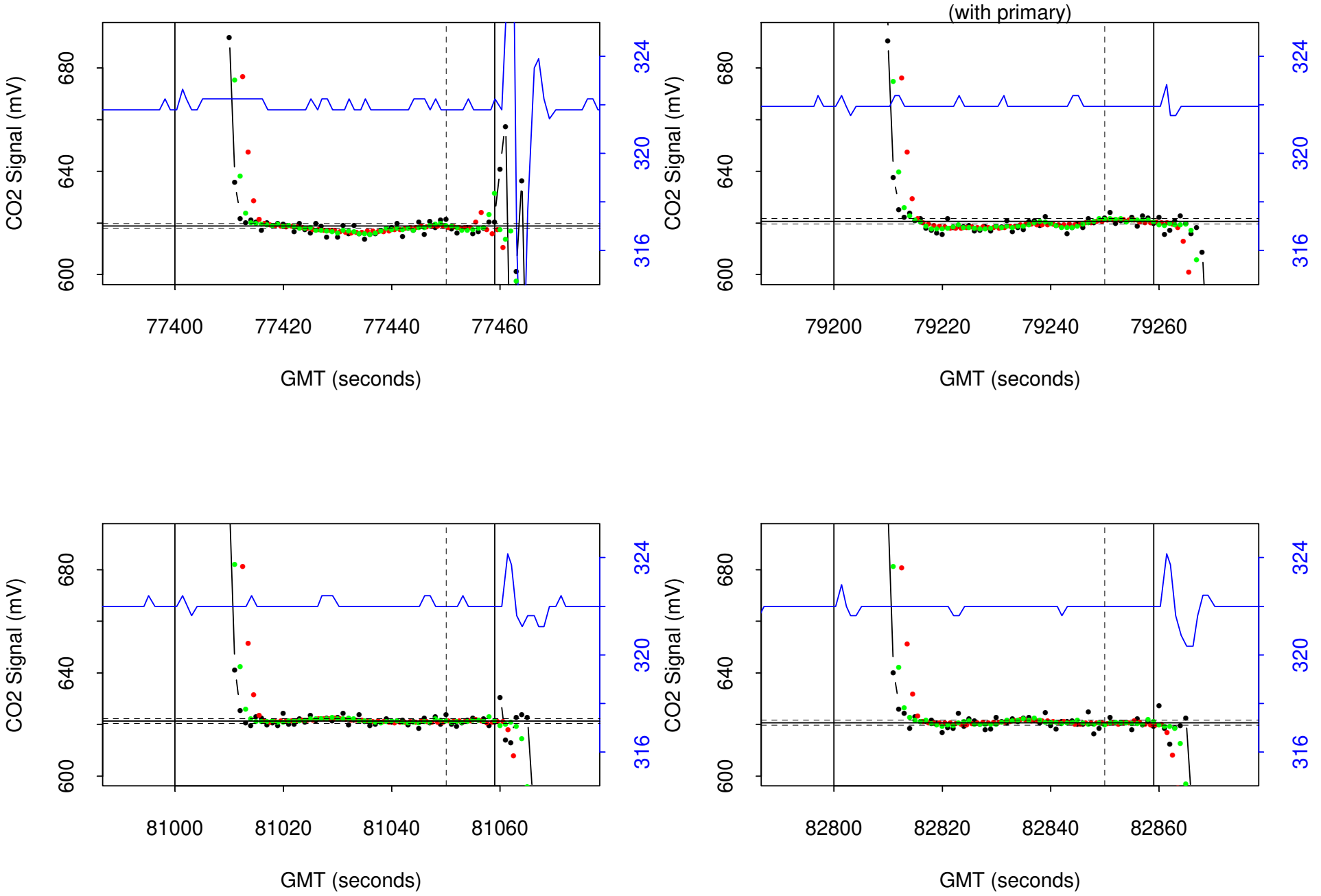300824 Full Cal Zeros