

Non-Conformities FCC ID: MI7-M64780D25 (CKC CS Ref # E07-000013-01)

The items listed below represent requests for information following review of this application for certification under United States (FCC) regulations. . Further question may arise pending review of responses to these items.

OK	#	Non-Conformity or Comment	Submitted Response	Respondent / Date of Response
X	1	Please supply the dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range provided	Additional information provided in operational description exhibits	CKC Labs 5/1/07
X	2	FCC 15.209 data is supplied in the report; this rule part is not applicable to licensed equipment. Please explain the purpose of this data.	Updated test report provided	CKC Labs 5/1/07
X	3	Please provide updated internal photos with sufficient detail to identify component placement.	Updated internal photos provided.	CKC Labs 5/1/07
X	4	90.543(c) emissions appear to have been met, however 90.543(e) emissions do not appear to have been met. Please provide data demonstrating compliance to 90.543(e) as noted, an antenna of typical use must be used during testing. : ”(e) For operations in the 764 to 776 MHz and 794 to 806 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.”	Updated test report provided demonstrating compliance with this rule part.	CKC Labs 5/1/07
X	5	Please clarify which ACCP requirements have been tested: test report does not state the mask used	Updated test report provided.	CKC Labs 5/1/07
X	6	ACCP test of upper frequency offset on page 53 indicates failing data. Please explain.	Updated test report provided.	CKC Labs 5/1/07
Xx	7	Each test for ACCP appears to have duplicated plots for each frequency tested. Please explain the purpose of these plots.	Plots provided are for upper and lower frequency offsets	CKC Labs 5/1/07
X	8	ACCP requirements for Receive band are unclear: Pages 69-74 seem to indicate testing was performed, however demonstration of compliance was not provided. Please clarify.	Two plots per channel were made due to limitations of dynamic range on the measuring equipment. One plot for each channel shows the fundamental transmission and one plot for each	CKC Labs 5/1/07

			channel shows the paired receive band. The delta between the two gives the passing ACCP reading.	
X	9	Power output listed on form 731 should be that of the nominal temperature. Please confirm correct power output rating.	Should list 23.7 Watts, per test lab.	CKC Labs 5/1/07
X	10	<p>Please confirm compliance with interoperability requirements of 90.547(a)(2) and that device meets interoperability technical standards as listed in 90.548.</p> <p>Excerpt of 90.547“(a) Except as noted in this section, mobile and portable transmitters operating on narrowband channels in the 764-776 MHz and 794-806 MHz frequency bands must be capable of operating on all of the designated nationwide narrowband Interoperability channels pursuant to the standards specified in this part. (2) Mobile and portable transmitters that are designed to operate only in the data mode must be capable of operation on the data Interoperability channels specified in §90.531(b)(1)(i); but need not be capable of voice operation on other Interoperability channels”</p>	“The radio is capable of operating on the Data Interoperability channels.”	CKC Labs 5/1/07
x	11	<p>MPE Calculations provided for 794-806MHz frequency band are inadequate. Calculations must be provided in EIRP, not conducted measurement.</p> <p>Additionally, this device operates on 806-824 SMR frequency bands which require RF exposure evaluation for power output above 1.5 Watts ERP (ref 2.1091) RF Exposure report from previous certification may be used, if maximum antenna gain and power output are the same. Antenna gain used for previous report is 3dBi. – Please clarify max antenna gain for use with M64780D25</p> <p>CKC Notes power output for M64800D25 was 23.8, power output for M64780D25 us 23.7 Watts.</p>	RF Exposure information updated	CKC Labs 5/2/07
X	12	Please provide manufacturers statement in the form of a cover letter regarding the equivalency of the M64800D25 and M64780D25 in order to justify use of reports from the M64800D25 with this application filing. Please provide detailed description of the differences in the products (this description may be held in the operational descriptions exhibit type if it contains confidential information)..	Statement provided.	CKC Labs 5/1/07