



Federal Communications Commission

MR Greg Czumak,

This letter is in reply to correspondence #9198  
FCC ID OG99520  
731 confirmation number EA94389.

We are submitting 2 files, including this letter to address the 6 issues are requested in the letter mentioned before.

According to the order of the items in the correspondence letter:

Item 1:

- We are submitting the file: "Sar test report.pdf" with the SAR testing results.

Item 2:

- With the statement "The power measurements were taken using a RBW of 100 KHz, so they are different from the peak measurements taken for EIRP purposes" on the page entitled "Explanation of Harmonic Margin", I really just meant that the fundamental readings in the table of this page were radiated measurements (field strength) took with a RBW = 100 KHz, and that the fundamental radiated readings took for EIRP purposes were taken with a RBW = 1 MHz.
- For harmonics that fall in restricted bands we use a RBW = 1 MHz (shaded results), and for harmonics that fall out of restricted bands we use a RBW = 100 KHz, according to 15.247 (c).

Item 3:

- The readings on the page "Connected Power Measurement Tests" are that, connected measurements, the units are in terms of dBuV, and the limit was determined converting mW units (250 mw limit per section 15.247(b)(2)) to dBuV units. First 250 mw were converted into dBm (23.97dBm) then dBm were converted into dBuV using the next formula:  
$$\text{dBuV} = 90 + 10\log(Z) + P \text{ (dBm)}$$
$$Z = 50\text{ohms}$$
$$P = 23.97 \text{ dBm}$$
$$\text{dBuV} = 130.95$$



Item 4:

- The 9520 telephone set has the identical RF occupied band for receiver and transmitter. 9520 telephone utilizes the frequency hopping technique with FSK modulation. Modulation bandwidth is defined by the CSP at IF = 10.7 MHz carrier and equals 250 kHz. CSP IF signal after additional filtration by SFECV10.7MA5-A Murata ceramic bandpass filter up-converts into the hopping frequency and has the occupied band equal to 250 kHz. Thus, transmitter radiates signal with 99% power in the 250 kHz band. The received signal goes through the input SAW filter which does not restrict the received signal spectrum and down-converts into IF 10.7 MHz signal and filters on two SFECV10.7MA5-A Murata ceramic filters before being apply to the demodulator input.

Item 5:

- There is no centralized coordination of hopping, either in frequency or in time, between any two or more phone sets (a set being a registered base-handset pair). Each phone set coordinates its frequency hopping table independently from any other set that happens to be nearby. A set swaps (exchanges) a given frequency in its hop table if communications on that channel are received in error (CRC errors in two or more consecutive frames) as determined by that set and that set only.

Item 6:

- On the production sets the antenna connections are soldered directly to the PWB and are not removable. The handset antenna is soldered directly to the board. The base antenna is soldered to the PWB with a short length of shielded cable. Neither of these are accessible to the end user. Therefore nothing is adjustable or changeable.

And the last file is this letter\_ "FCC Additional Information 2."

I hope the information we are sending covers the items necessary to comply with the requirements of FCC Part 15 for this product.

Best Regards  
Cayetano Chavez.  
Compliance Test Team Leader