Helen Zhao

Subject: FW: Urgent! - Suncorp Communications Limited, FCC ID: S9AWDCT45-AS, Assessment NO.: AN05T5197, Notice#1

From: iris
Sent: Tuesday, October 18, 2005 12:40 AM
To: Helen Zhao
Subject: Re: Urgent! - Suncorp Communications Limited, FCC ID: S9AWDCT45-AS, Assessment NO.: AN05T5197, Notice#1

Dear Helen,

#1-#6: Pls find the revised SAR report.
#7: Pls find the attachment.
#2: See attachment

Best Regards,

Iris Lin

Question #1: SAR Test Plots - Please provide a "color" copy (SAR Report Part 5). It is very difficult to find hot spot, as well as other detailed information, based upon black-white images.

Question #2: SAR Test plots - Please justify why duty cycle = 1:12 was selected during the SAR test.

Question #3: SAR Test Plots - Please explain why only one left section plot at low channel was included.

Question #4: SAR Test Plots - Please indicate Ambient and liquid temperatures.

Question #5: SAR test plots show head position was tested on 9/2/05, however there is no system performance check data for 9/2/05 listed on the SAR report, section 2.6.3. Please explain.

Question #6: SAR System performance check plots were not submitted. Please note "SAR Report part 4" is missing, please check. Please make sure it is in color copy and include Ambient and liquid temperatures

Question #7: Please address the following requirements as listed on Section 15.247(a)(1).

Pseudorandom Frequency Hopping Sequence
Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, in order to demonstrate that the sequence meets the requirement specified in the definition of a frequency hopping spread spectrum system, found in Section 2.1.

Equal Hopping Frequency Use
Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

System Receiver Input Bandwidth
Describe how the associated receiver(s) complies with the requirement that its input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

System Receiver Hopping Capability
Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

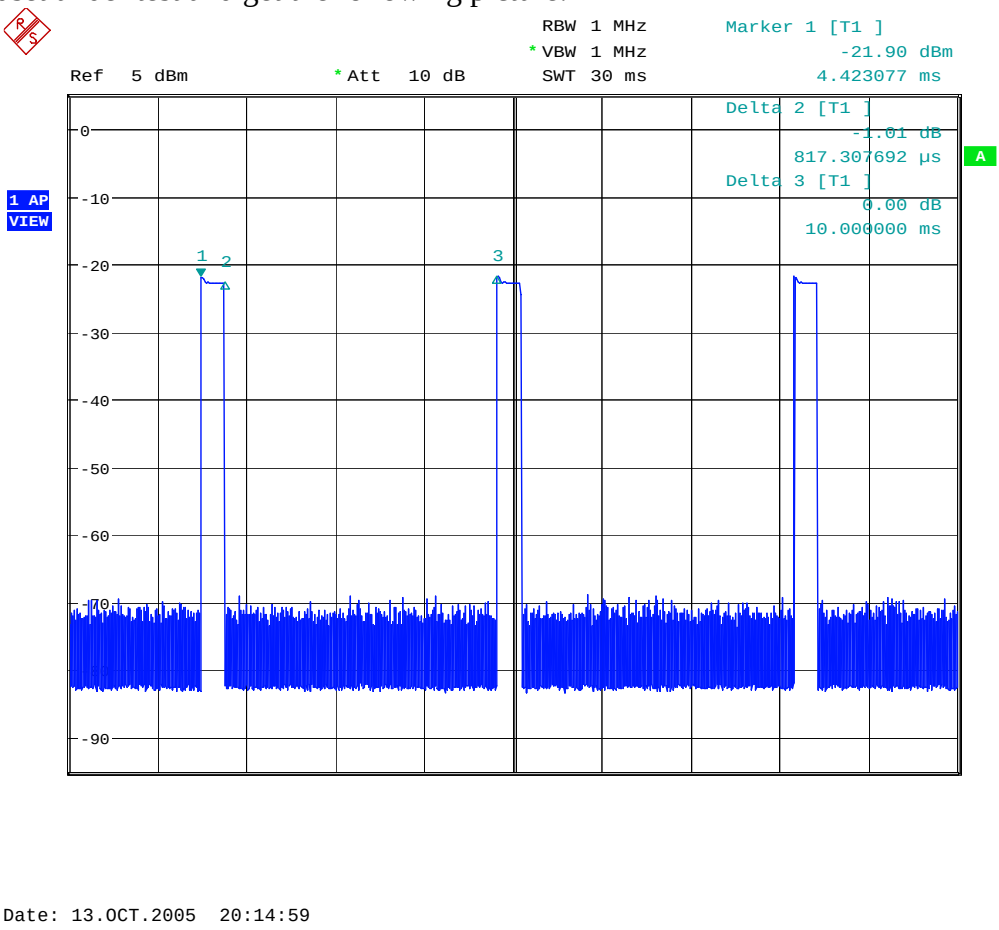
1 Questions

Question #2: SAR Test plots - Please justify why duty cycle = 1:12 was selected during the SAR test.

2 Reply to Questions

2.1 Reply to Question #2

To use a spectrum (R&S FUS46) to scan with time domain the air-interface nearby of the handset under test and get the following picture:



The duty period was between point 1 and 2 marked and the value was about 0.8 ms.
The cycle-period was between point 1 and 3 marked and the value was 10ms.
So, the duty cycle can be calculated by 0.8/10, the value is 0.08 and it is very close to 1: 12.