

FCC ID A3LSGHR225

Statement

Item# 3

The power indicated on page 3 (section 1.5) refers to the maximum power allowed for this services regarding the requirements of PTCRB and doesn't refer to the FCC regulations will make a statement in future reports.

Maximum peak EIRP is 0.588W (radiated). (0.610W is the conducted power output)

Item# 4

The power measurements are done in conducted and radiated mode to eliminate the uncertainties coming from the difference of the declared gain vs. the real gain of the antenna.

All radiated measurements are done using the substitution method.(see page 8 of the report)

The radiated spurious emissions are defined in 24.238 as measurements relative to the max. power level. There is no specification and no need for the use of the substitution method, which will give the absolute power level.

Item# 5

The frequency stability was measured up to -30° C

Results: -20° C => -25 Hz = -0.0133 ppm
 -30° C => 23 Hz = 0.0122 ppm

Item# 1 SAR

The different results from the test report for the FCC testing and the report from the SAR testing is caused by the situation, that two different test systems and two different samples were used. The difference is within the measurement uncertainty and the tolerance of the production. The values for the SAR testing are only used to verify that the power before and after the measurement is the same; it doesn't affect the SAR results.

The conducted values were verified and are within the indicated measurement uncertainty.

Lothar Schmidt

Technical Manager EMC/Radio



Original answers and declarations from the SAR lab

Dear Ma'an:

Question #1: Answer: The highest Antenna Conducted Output was measured before SAR tests is 30.2dBm. This measurement was made by using CMU 200 (CETECOM unit) and the output power was tuned by Samsung engineers during the tests. (remark Lothar Schmidt: to get the maximum output power allowed be PTCRB, which is 1W)

Question #2: Answer: Attached please find Serial Number:1577 Probe Calibration report. 1800MHz Conversion Factor was used for this test. 1900MHz conversion was not provided by the Probe manufacturer. However, by looking at the calibration report, conversion factor between 1800 - 2000MHz should be the same.

Question #3: Answer: This is the typo in the test report, liquid parameter was measured at 1900MHz. Revised SAR test report is attached.

Question #4: Answer: SAR system verification data is included in the page 19 and 20 of test report.

Question #5: Answer: Liquid Depth is 15.1cm. Revised SAR report is included this information.

Question #6: Answer: In accordance with OET 65 Supplement C, page 40, " If the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tile/Ear, extended and retracted) is at least 2.0dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s)." The highest measured SAR values at Right Side of Head at Middle channel are :Cheek:0.562mW/g, Tiled:0.958mW/g. These two values are below the SAR limits (1.6mW/g) at least 2dB (1.01mW/g). Based upon the measurement results, the Right Head/Cheek @ low channel was not measured.

Best Regards

Mike Kuo / Compliance Certification Services

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