



March 17, 2003

To: Diane Poole dpoole@fcc.gov
FCC Application Processing Branch

Re: FCC ID AK8PCWAC700
Applicant: Sony Corporation
Correspondence Reference Number: 24914
731 Confirmation Number: EA621908

Dear Diane,

Our answers are as follows.

- 1) The user cannot select the antenna. The antenna can be switched automatically due to the transmission condition. Please see the exhibits "Parts/Tune Up Information – Transmitter and antenna position" and "Operational Description – Theory of operation f) 5 G antenna Switch" and "Theory of operation f) 2.4 G Antenna Switch" that I have submitted on March 12 although I had already submitted it for Part 15C. (See attached file, Answer 1 that includes all documents of the above.)
- 2) EMC Measurements in OFDM mode measures maximum output power at 11.6 dBm without the cable loss factor. With the cable loss compensation (1.4 dB), the actual maximum output conducted power is $11.6 + 1.4 = 13.0$ dBm (20 mW). The SAR measurement power data listed on the report inadvertently did not reflect the cable loss factor. Therefore the original SAR measurements were made at an actual power level of $11.0 + 1.4 = 12.4$ dBm. To confirm the maximum SAR level, the worst-case SAR configuration was re-tested at the maximum power level using the worst-case notebook PC (See Attached table and plot). The maximum SAR for this device in OFDM mode is 1.31 W/kg as shown in the amended report (See attached file, Answer 2).
- 3) Please see re-submitted user manual 1.
- 4) All modes of operation were investigated, and worst-case results are reported. Data Transfer Rate is at 54 MBps. Please refer to page 22 Note 2 of SAR test report that was already submitted.
- 5) Please find attached full details of probe calibration, including verification of linearity with device signal type. (See attached file, Answer 5)
- 6) Please find attached coarse scan data covering the complete laptop for the worst case configuration for each host. (See attached file, Answer 6)
- 7) Please find photograph and physical details of the 5.3 GHz validation dipole, as well as development details of the target value. (See attached file, Answer 7)
- 8) Please find details of uncertainty analyses made in preparation for use of the P1528 template. (See attached file, Answer 8)
- 9) Please refer to page 2 Safety Information WARNING of Users manual 1. (See attached file, Answer 9)

Best Regards,

Izumi Mitsui
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EMC Division
AKZO NOBEL K. K.