

Hi Ben,

We have completed our review of the application and we have identified the following issues:

1. The conducted output power appears to have been acquired using a resolution bandwidth of 100kHz. The transmission bandwidth is 1MHz. Please provide the transmitter output power in the highest channel using a resolution bandwidth which is larger than the transmission bandwidth.

RESPONSE: The data was taken at 1MHz. The report refers to Graph 001 but it should be Graph 004. (FCC Part 15.247(b) is also referenced on the bottom of this graph.)

2. Please provide a measurement of the bandedge field strength at 2483.5 MHz with the product operating in the highest channel. We need to confirm that this meets the 15.205 limits.

RESPONSE: (FROM TCB – The applicant has shown that he measured emissions that were slightly removed from the band edge and found them to be below the limit. These emissions were higher than the level at the band edge and thus the bandedge is compliant. We accept this rationale).

For the internal antenna refer to graph 049, frequency span from 2.39 to 2.5 GHz. The band 2.4835 to 2.5 GHz is a restricted band in the USA so only spurious emissions are allowed in the band. From graph 049 there is no spurious emission at 2.4835 GHz, there are 2 spurious emissions at 2.4937 GHz and at 2.4864 GHz. Both of these peaks were measured on the open site and the peak and average measurements reported in section 7.7.2.3.

Similar data exists for the external antenna. Graph 054 shows the frequency range of interest and, again, there is no spurious emission at 2.4835 GHz but there are 2 spurious emissions are visible at 2.4894 and 2.4963 GHz. Both of these emissions were measured on the open site and the peak and average measurements reported in section 7.7.2.4.

For the external antenna we have a measurement only 2.9 MHz off the actual band edge with a measurement RBW of 1 MHz with a result 11 dBuV/m BELOW the peak limit and 16 dBuV/m BELOW the average limit.

For the external antenna we have a measurement only 5.9 MHz off the actual band edge with a measurement RBW of 1 MHz with a worst case result 13 dBuV/m BELOW the peak limit and 16 dBuV/m BELOW the average limit.

3. Please provide data responsive to the 15.31 (e) requirement.

RESPONSE: Blue tooth voltage variation test report provided.

4. Please provide an MPE calculation to document the units RF exposure compliance.

RESPONSE: MPE Calculation exhibit provided.

5. Please supply details of the label material.

RESPONSE: I can confirm that KTL have assessed the label material used both for compliance with FCC Part 68 and also to the requirements of IEC60950 and UL1950 for durability and

[legibility. Furthermore the 3000AS is FCC certified to Part 68 under FCC Reg: RDM GTB - 40289 - XD - N.](#)

6. Please supply details of the external antenna connector so we can check for compliance with 15.203.

RESPONSE: [The external antenna uses an MCX type connector which is currently classed by the FCC as not readily available.](#)