



2 March 2015

Applicant: Qualcomm Atheros Inc

FCC IDENTIFIER: PPD-QCNFA335

The Product Name of Radio Equipment: 1X1 802.11b/g/n-BT4.0 PCIe/USB M.2 Combo Module

Host Platform: Notebook

The owner of the host platform: Lenovo

This is to justify and certify that the transmitter output power (802.11b/g/n 2TX) are dropped in order to enhance the holistic performance while installing to the host platform, [Model: FLEX 3-14xx](#), [Platform: Notebook](#) , [host owner: Lenovo](#). We undersigned, believed and expect that the test measurement as demonstrated and degraded on WIFI power level compare with origin grant which remains effective and representative, so a Class II change (as per §2.1043) with SAR re-test on given platform are adequate to ensure the product's compliance, due to the following:

- The module (FCC ID: PPD-QCNFA335, IC ID: 4104A-QCNFA335) was assessed compliant to radiated emission limits per 15.247 in its initial FCC approval.
- Power at the originally tested default channel is lower under per-chain condition. The lower power, critical to emissions, generates lower emissions with respect to the mandatory limit per the corresponding ruling part.
- The current platform for this Class II Permissive Change uses an antenna with the same type, but across the emission bands, has a lower gain than was used in the original FCC approval for the module.
- The module was tested in its original FCC approval in an open environment. The antenna for this Class II Permissive Change request is installed inside a laptop enclosure, which is expected to have a reducing effect on radiated emissions.

Best Regards

Mark Ortlieb

Staff Engineer, Regulatory

Qualcomm Technologies Inc./Qualcomm Atheros, Inc.

1-858-658-3208

[mortlieb@qti.qualcomm.com](mailto:mortlieb@qti.qualcomm.com)