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**SiTime Corporation**

**Eric Garlepp**

Sr. Director of Product Marketing

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Subject: Nordic review of SiTime SiT11100 32MHz MEMS resonator

Dear Eric,

SiTime SiT11100 MEMS 32MHz resonator is compatible with the Nordic nRF5340 and nRF54L15.

Nordic has measured the performance in the lab with a SiTime MEMS resonator samples and the nRF5340 to verify the performance. Furthermore, Nordic has run full simulations with nRF54L15 and nRF5340.

- For nRF54L15 performance is optimal with  $C_{XC1}=C_{XC2} = 7 \text{ pF}$ 
  - This is equivalent to  $C_{EXT} = 3.5 \text{ pF}$  according to SiT11100 datasheet convention
- For nRF5340 performance is optimal with  $C_{XC1}=C_{XC2} = 8 \text{ pF}$ 
  - This is equivalent to  $C_{EXT} = 4.0 \text{ pF}$  according to SiT11100 datasheet convention

Yours sincerely,

**Pär Sven-Erik Håkansson**

Product Director – Short Range, Nordic Semiconductor

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