RF Exposure Requirements

Product Description: Smart Node
Model No.: 75F-SN3200
FCC ID: 2AVZO-SN3200A

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Calculation Result:

For SRD
Tx frequency range: 906MHz-922MHz
Min. test separation distance: 5mm
Maximum Conducted Output Power: 4.672dBm
Tune-Up output power: 5dBm
RF channel transmit frequency: 914MHz
Result: 0.6
Limit: 3.0
The exclusion thresholds is 0.6 < 3

For BLE
Tx frequency range: 2402MHz-2480MHz
Min. test separation distance: 5mm
Maximum Conducted Output Power: 3.57dBm
Tune-Up output power: 4.0dBm
RF channel transmit frequency: 2480MHz
Result: 0.8
Limit: 3.0
The exclusion thresholds is 0.8 < 3

So the transmitter complies with the RF exposure requirements and the SAR is not required.