Standalone SAR test exclusion considerations

March 28, 2016

- Min. transmitting frequency =   **2402**   MHz
- Min. test separation distance =   **5**   mm   Antenna Gain = 0.5 dBi
- Max. power with turn-up tolerance =   **3.60**   dBm   =   **2.29**   mW
    Max Target Power: **3.60**   dBm
    Measured Output Power: **2.92**   dBm
- Max. E.I.R.P =   **3.60**   dBm   +   **0.50**   dBm   =   **4.10**   dBm   **2.57**   mW

Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm =   Used

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

=   [2.29   /   5   ]   *   [√   2.402   ]

=   **0.71**   **≤ 3, for 1g SAR**   **Thus SAR for this device is not required.**

Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test separationn distances > 50 mm =   N/A

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW

Step 2-2) SAR test exclusion thresholds for 1500MHz to 6GHz at test separationn distances > 50 mm =   N/A

[Threshold at 50 mm in step 1) + (test separation distance - 50 mm)·10] mW