RF Exposure evaluation

Product Description: HW155-2.4G receiver
Model Number: HW155
FCC ID: 2AC9LHW155A

According to 447498 D01 General RF Exposure Guidance v05 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: [(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

According to the follow transmitter output power (P_t) formula :
P_t= (E x d) ^{2}/ (30 x g_t)
P_t=transmitter output power in watts
g_t=numeric gain of the transmitting antenna (unitess)
E=electric field strength in V/m
d=measurement distance in meters (m)

According to the above test data,
Emax=92.52 dBuv/m=0.042V/m,d=3m,g_t=1
P_t= (E x d) ^{2}/ (30 x g_t) =$(0.042x3)^2/(30x1)$=0.000529W=0.53mW

The result is rounded to one decimal place for comparison
Worse case is as below: [2474MHz -0.53mW output power]
(0.53mW /5mm) .[√2.474(GHz)]= 0.17<3.0 for 1-g SAR
Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.