### FCC ID: 2AX4YBLADE10PRO

## RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v06 -P13, 4.3.1-c)

For frequencies below 100 MHz, the following may be considered for SAR test exclusion(also illustrated in Appendix C):33

- For test separation distances> 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHzin stepb)is multiplied by [1 + log(100/f(MHz))]
- 2) For test separation distances ≤50 mm, the power threshold determined by the equation inc)1) for 50 mm and 100 MHz is multiplied by ½
- 3) SAR measurement procedures are not established below 100 MHz.
- 4) When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for anySARtest resultsbelow 100 MHzto be acceptable.34

# Appendix C SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz  | < 50 | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | mm |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 100  | 237  | 474  | 481  | 487  | 494  | 501  | 507  | 514  | 521  | 527  | 534  | 541  | 547  | 554  | 561  | 567  |    |
| 50   | 308  | 617  | 625  | 634  | 643  | 651  | 660  | 669  | 677  | 686  | 695  | 703  | 712  | 721  | 729  | 738  |    |
| 10   | 474  | 948  | 961  | 975  | 988  | 1001 | 1015 | 1028 | 1041 | 1055 | 1068 | 1081 | 1095 | 1108 | 1121 | 1135 |    |
| 1    | 711  | 1422 | 1442 | 1462 | 1482 | 1502 | 1522 | 1542 | 1562 | 1582 | 1602 | 1622 | 1642 | 1662 | 1682 | 1702 | mW |
| 0.1  | 948  | 1896 | 1923 | 1949 | 1976 | 2003 | 2029 | 2056 | 2083 | 2109 | 2136 | 2163 | 2189 | 2216 | 2243 | 2269 |    |
| 0.05 | 1019 | 2039 | 2067 | 2096 | 2125 | 2153 | 2182 | 2211 | 2239 | 2268 | 2297 | 2325 | 2354 | 2383 | 2411 | 2440 |    |
| 0.01 | 1185 | 2370 | 2403 | 2437 | 2470 | 2503 | 2537 | 2570 | 2603 | 2637 | 2670 | 2703 | 2737 | 2770 | 2803 | 2837 |    |



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#### For Worst case Mode: 13.56MHz

#### As this equipment:

 $EIRP = Pt * Gt = (E*d)^2/30$ 

where:

Pt = transmitter output power in watts,

Gt = numeric gain of the transmitting antenna (unit-less),

 $E = electric field strength in V/m, --- <math>10^{((dBuV/m)/20)}/10^6$ 

d = measurement distance in meters (m)---3m

Field strength =50.42dBuV/m @3m Ant gain 0 dBi; so Ant numeric gain=1 So pt=  $\{[10^{(50.42/20)}/10^6 \text{ x3}]^2/30\text{x1}\} \times 1000 \text{ mW} =0.000033\text{mW}$ 

Power= 0.000033mW < 442mW, Then SAR evaluation is not required