## RF EXPOSURE EVALUATION METHOD

SAR Test Exclusion Thresholds for $100 \mathrm{MHz}-6 \mathrm{GHz}$ and $\leqslant 50 \mathrm{~mm}$
Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 150 | 39 | 77 | 116 | 155 | 194 |  |
| 300 | 27 | 55 | 82 | 110 | 137 |  |
| 450 | 22 | 45 | 67 | 89 | 112 |  |
| 835 | 16 | 33 | 49 | 66 | 82 |  |
| 900 | 16 | 32 | 47 | 63 | 79 |  |
|  |  |  |  |  |  |  |
|  | 12 | 24 | 37 | 49 | 61 |  |
|  | 11 | 22 | 33 | 44 | 54 | SAR Test <br> Exclusion <br> Threshold (mW) |
|  | 10 | 19 | 29 | 38 | 48 |  |
|  | 8 | 16 | 24 | 32 | 40 |  |
|  | 7 | 13 | 20 | 26 | 33 |  |
|  | 6 | 13 | 19 | 26 | 32 |  |
| 5800 | 6 | 12 | 19 | 25 | 31 |  |

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leqslant 50 \mathrm{~mm}$ are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, $\mathrm{mm})] \cdot[\sqrt{ }(\mathrm{GHz})] \leqslant 3.0$ for $1-\mathrm{g}$ SAR and $\leqslant 7.5$ for $10-\mathrm{g}$ extremity SAR, where $\mathrm{f}(\mathrm{GHz})$ 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 The test exclusions are applicable only when the minimum test separation distance is $\leqslant 50$ mm and for transmission frequencies between 100 MHz and 6 GHz . When the minimum test separation distance is $<5 \mathrm{~mm}$, a distance of 5 mm is applied to determine SAR test exclusion.

| frequency | Maximum Peak Conducted <br> Output Power | Max Antenna <br> Gain |
| :---: | :---: | :---: |
| MHz | dBm | dBi |
| $550.125 \sim 564.825 \mathrm{MHz}$ | -2.75 | 1 |
| $572.125 \sim 586.825 \mathrm{MHz}$ | -2.81 | 1 |

max possible output power ( PK, conducted) : $-2.75 \pm 1 \mathrm{dbm}$ for Band A
max possible output power (PK,conducted) : $-2.81 \pm 1 \mathrm{dbm}$ for Band B

1 dBi logarithmic terms convert to numeric result is nearly 1.25 .
$-1.75 \mathrm{dbm}=0.66 \mathrm{~mW}$
$-1.81 \mathrm{dbm}=0.65 \mathrm{~mW}$

Band A : 550.125~564.825MHz
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation
distance, mm$)] \cdot[\mathrm{Vf}(\mathrm{GHz})]=0.66 / 5 * \sqrt{ } 0.557025=0.09 \leq 3.0$

Threshold at which no SAR required is 10 mw and $\leq 3.0$ for $1-\mathrm{g}$ SAR, Separation distance is 5 mm .

Band B: 572.125~586.825MHz
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation
distance, mm $)] \cdot[\vee f(G H z)]=0.65 / 5^{*} \sqrt{ } 0.572125=0.09 \leq 3.0$

Threshold at which no SAR required is 10 mw and $\leq 3.0$ for $1-\mathrm{g}$ SAR, Separation distance is 5 mm .

Conclusion: No SAR is required.

