## RF Exposure Evaluation

## REQUIREMENT

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1
a) [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [ $\sqrt{ } \mathrm{f}(\mathrm{GHz})$ ] $\leqslant 3.0$ 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 test exclusions are applicable only when the minimum test separation distance is $\leq 50 \mathrm{~mm}$, 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 according to 4.1 f ) is applied to determine SAR test exclusion.
b) For 100 MHz to 6 GHz and test separation distances $>50 \mathrm{~mm}$, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B)

1) $\{[$ Power allowed at numeric threshold for 50 mm in step a) $]+[$ (test separation distance -50 $\mathrm{mm}) \cdot(\mathrm{f}(\mathrm{MHz}) / 150)]\} \mathrm{mW}$, for 100 MHz to 1500 MHz
2) $\{[$ Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm$) \cdot 10]\}$ mW , for $>1500 \mathrm{MHz}$ and $\leqslant 6 \mathrm{GHz}$
c) For frequencies below 100 MHz , the following may be considered for SAR test exclusion (also illustrated in Appendix C)
3) For test separation distances $>50 \mathrm{~mm}$ and $<200 \mathrm{~mm}$, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1+\log (100 / f(\mathrm{MHz}))]$
4) For test separation distances $\leqslant 50 \mathrm{~mm}$, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $1 / 2$
5) SAR measurement procedures are not established below 100 MHz .

## TEST RESULT

## $\boxtimes$ Passed $\quad \square$ Not Applicable

| Type | Frequency <br> $(\mathrm{MHz})$ | Maximum Output <br> Power $(\mathrm{dBm})$ | Calculating data <br> $(\mathrm{mW})$ | $10-\mathrm{g}$ Limit <br> $(\mathrm{mW})$ | Result |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 95 C | 27.145 | 20.74 | 119 | 929 | Pass |

Note:

1) The maximum antenna gain is $1 d B i$
2) The exposure safety distance is less than 0 mm .
