FCC ID: 2ABXZU-7298

RF EXPOSURE EVALUATION METHOD

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 50 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 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | SAR Test Exclusion |
| 1900 | 11 | 22 | 33 | 44 | 54 | Threshold (mW) |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

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| frequency | Maximum Peak | Max Antenna |
|-----------|------------------------|-------------|
| | Conducted Output Power | Gain |
| MHz | dBm | dBi |
| 481 | 3.523 | 0 |
| 541 | 3.137 | 0 |
| 599 | 2.575 | 0 |

IEEE 802.11b

max possible output power (PK,conducted): 3±1dbm

0dBi logarithmic terms convert to numeric result is nearly 1

4dbm=2.512mW

481MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] $\cdot [\sqrt{f(GHz)}] = 2.512/5*\sqrt{0.481} = 0.77 \le 3.0$

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

541MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] $\cdot [\sqrt{f(GHz)}] = 2.512/5*\sqrt{0.541} = 0.68 \le 3.0$

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

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| 599MHz |
|---|
| [(max. power of channel, including tune-up tolerance, mW)/(min. test separation |
| distance,mm)] $\cdot [\sqrt{f(GHz)}] = 2.512/5*\sqrt{0.599} = 0.64 \le 3.0$ |
| Threshold at which no SAR required is 10mw and \leq 3.0 for 1-g SAR, Separation |
| distance is 5mm. |
| |
| Conclusion: No SAR is required. |
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