## **RF Exposure Evaluation**

## **REQUIREMENT**

KDB 447498 D04 Interim General RF Exposure Guidance v01

Appendix B Exemptions for Single RF Sources

B.3 MPE-based Exemption and B.4 SAR-based Exemption:

$$P_{\text{th}}(\text{mW}) = ERP_{20 \text{ cm}}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B.1)

$$P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\rm cm} (d/20\,\rm cm)^x & d \le 20\,\rm cm \\ \\ ERP_{20\,\rm cm} & 20\,\rm cm < d \le 40\,\rm cm \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20} \operatorname{cm}\sqrt{f}}\right)$$

f is in GHz, d is the separation distance (cm), and  $ERP_{20cm}$  is per Formula (B.1).

## TEST RESULT

☑ Passed □ Not Applicable

Head:

Туре	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	Maximum Tune-up (mW)	Limit(mW)	Result
BT EDR	0.31	0.50	1.12	<10.28	Pass
BT BLE	6.98	7.00	5.01	<10.39	Pass

## Extremity:

Туре	Conducted Average Power (dBm)	Maximum Tune-up (dBm)	Maximum Tune-up (mW)	Limit(mW)	Result
BT EDR	0.31	0.50	1.12	<6.88	Pass
BT BLE	6.98	7.00	5.01	<6.97	Pass

Note:

1) The maximum antenna gain is 1.15dBi

2) The safety distance for head exposure assessment was 10mm,

3) The safety distance for Extremity exposure assessment was 0mm.

4) when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.