

RF Exposure Exclusion Evaluation

FCC ID: AZP-FDK31TU
Product Name: MODEM
Model No: FDK31TU

The standalone RFEExp exclusion shall be refer to FCC § 1.1307 (b)(3)(i)(A) SAR-Based and MPE-based exemption which device determined the All distance from antenna to user/bystander.

FSK Modulation

Frequency (MHz)	Tune-up max power (mW)	Exclusion Power (mW)
234.95	0.000007	1

According to ANSI c63.10-2013 formula 22:
 $EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$
And (G.6):
 $ERP = EIRP - \text{Antenna Gain}$
So the tune-up max power :
 $ERP = 46.0 - 95.2 - (2.15) = -51.35\text{dBm} = 0.000007\text{mW}$.

OFDM Modulation

Frequency (MHz)	Tune-up max power (mW)	Exclusion Power (mW)
312.20	0.000007	1

According to ANSI c63.10-2013 formula 22:
 $EIRP = E_{Meas} + 20\log(d_{Meas}) - 104.7$
And (G.6):
 $ERP = EIRP - \text{Antenna Gain}$
So the tune-up max power :
 $ERP = 46.0 - 95.2 - (2.15) = -51.35\text{dBm} = 0.000007\text{ mW}$.

The EUT's maximum time-averaged power is less than 1mW so it preclude RFEExp requirement.

Manager
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Sincerely Yours,



Mr. Johnny Hsueh
Section Manager
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