

RF Exposure Exclusion Evaluation

FCC ID: AZP-FDK32T

Product Name: MODEM

Model No: FDK32TU

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

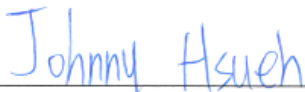
Frequency (MHz)	Tune-up max power (mW)	Exclusion Power (mW)
155.95	0.000003	1
According to ANSI c63.10-2013 formula 22: $EIRP = E_{Meas} + 20 \log(d_{Meas}) - 104.7$ And (G.6): $ERP = EIRP - \text{Antenna Gain}$ So the tune-up max power : $ERP = 42.0 - 95.2 - (2.15) = -55.34 \text{ dBm} = 0.000003 \text{ mW}.$		

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
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