

Exhibit A

Compliance to 47 C.F.R. §25.218 Off-Axis EIRP Spectral Density (ESD) Plots

There are four terminals in total being added to this modification application. It should be noted that Paradigm Hornet 100 cm complies with the 25.209 gain patterns, hence no technical analysis with two-degree spacing is provided for that terminal. The other three terminals (1-3) have compliance plots for 25.218 provided in the exhibit below.

1. Paradigm Ragno 40 cm
2. Paradigm Hornet 60 cm
3. Paradigm Hornet 80 cm
4. Paradigm Hornet 100 cm (complies with 25.209)

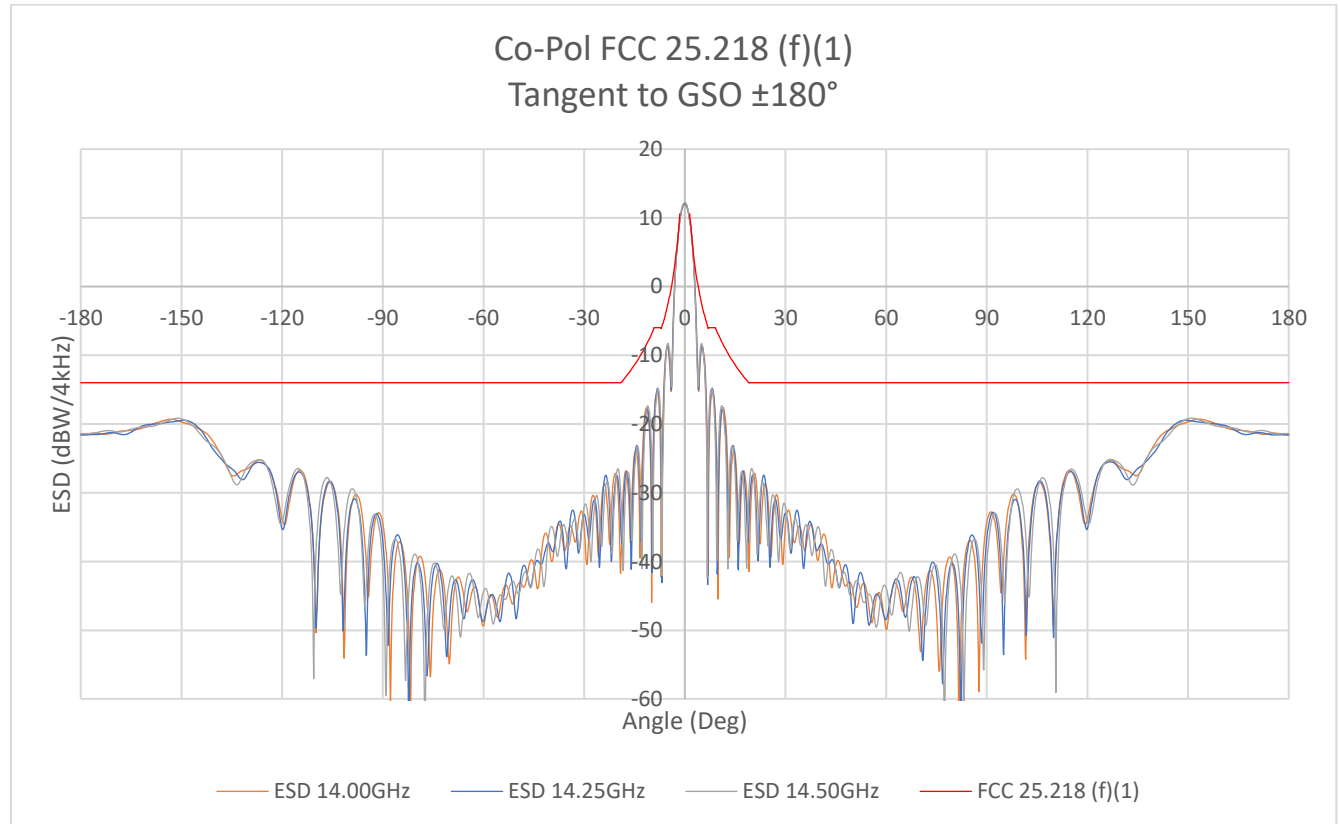
Compliance to 47 C.F.R. §25.218 (f)(1-3)

1. EIRP density plots for Paradigm Ragno 40 cm

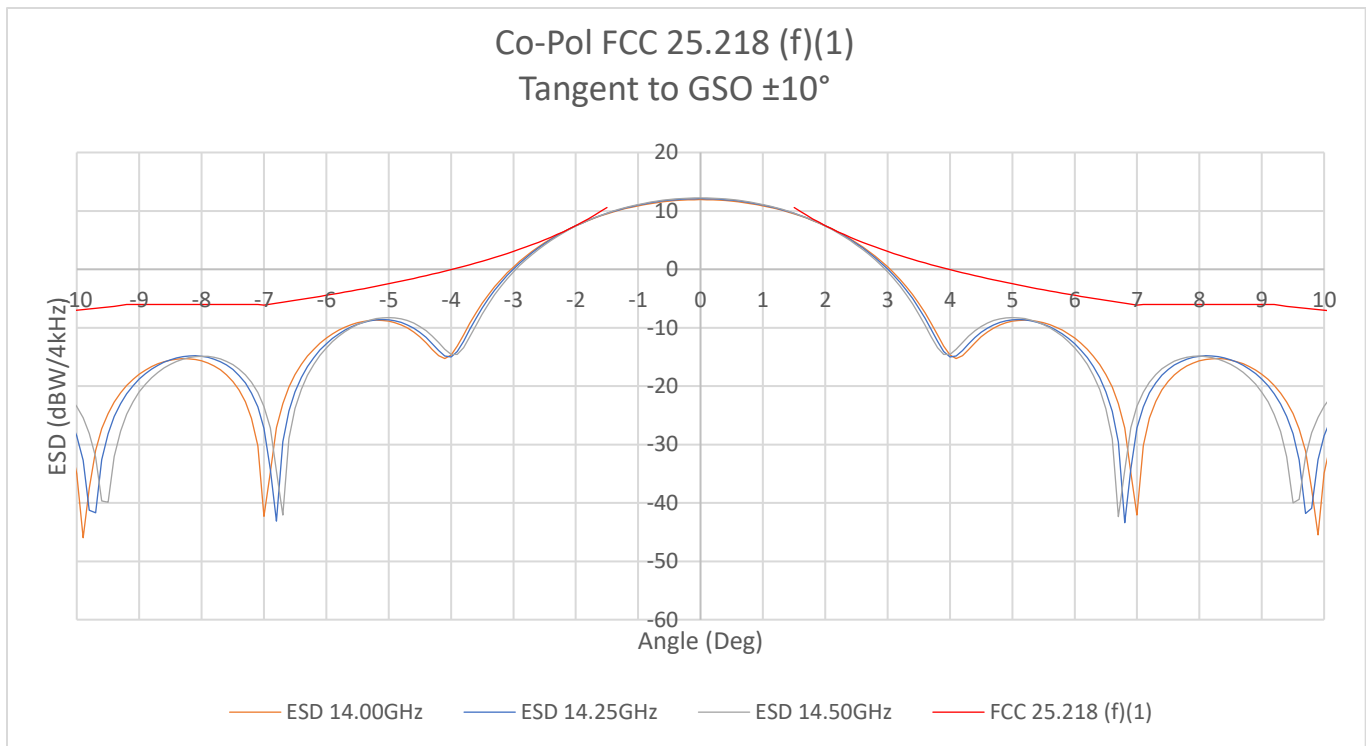
To ensure the EIRP spectral density envelopes specified in §25.218(f) 1-3 are satisfied, the maximum EIRP spectral density is limited to 11.9 dBW/4 kHz. The EIRP density compliance for this terminal is shown below.

EIRP density plots (14, 14.25 and 14.5 GHz, peak EIRP/density – 11.9 dBW/4KHz)

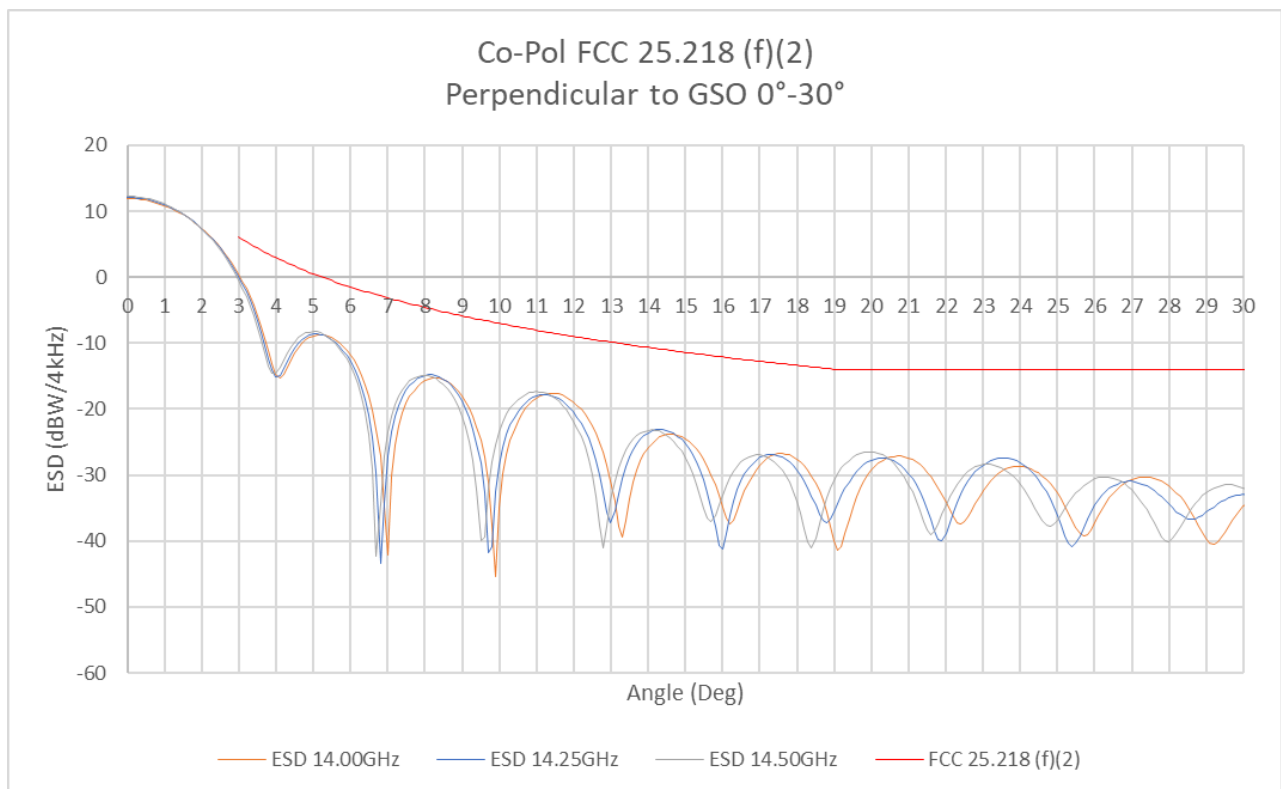
(i) Co-Pol EIRP density in the plane tangent to the GSO arc



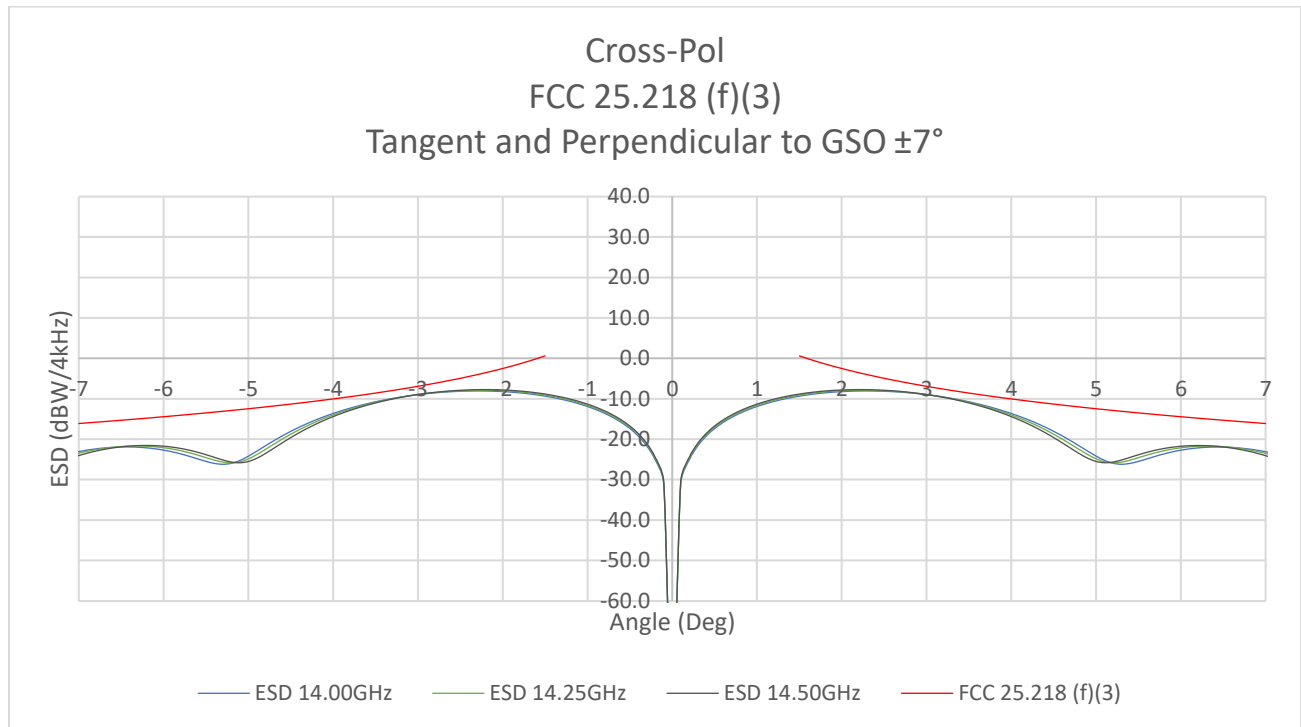
(ii) Co-Pol EIRP density in the plane tangent to the GSO arc



(iii) Co-Pol EIRP density in the plane perpendicular to the GSO arc



(iv-v) Cross-Pol EIRP density in the plane tangent and perpendicular to the GSO arc

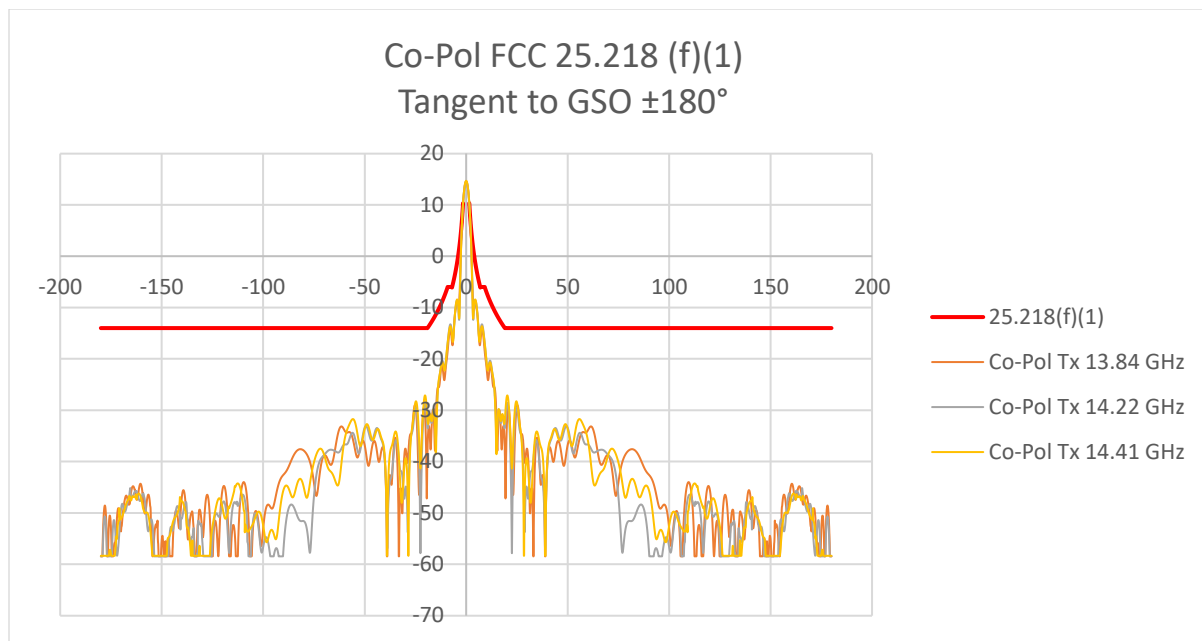


2. EIRP density plots for Paradigm Hornet 60 cm

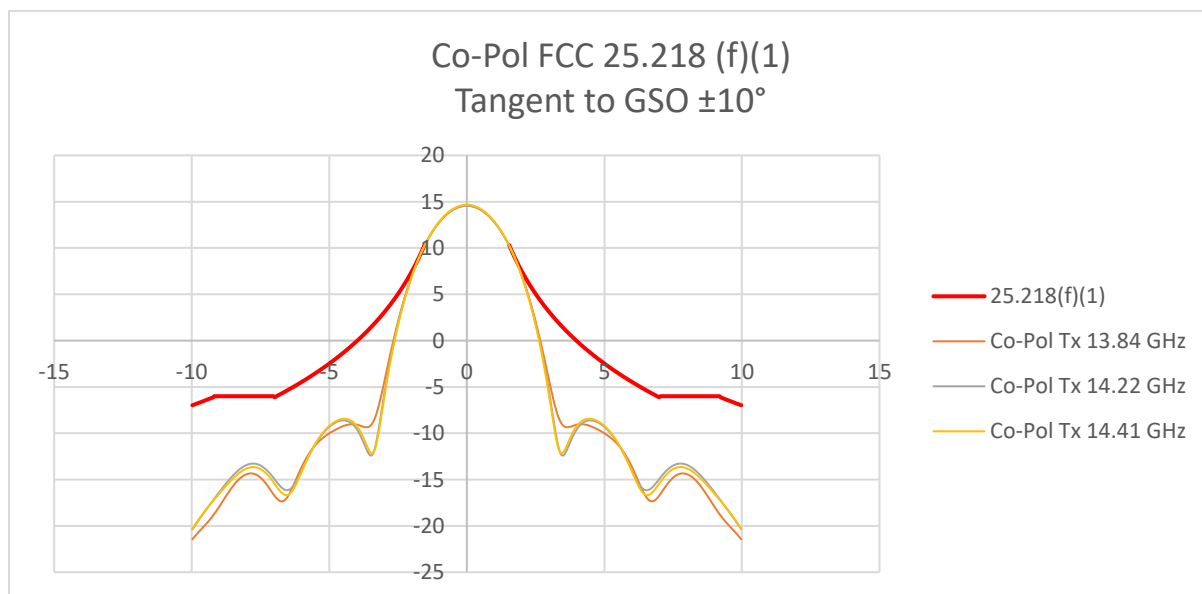
To ensure the EIRP spectral density envelopes specified in §25.218(f) 1-3 are satisfied, the maximum EIRP spectral density is limited to 14.5 dBW/4 kHz. The EIRP density compliance for this terminal is shown below.

EIRP density plots (13.84, 14.22 and 14.41 GHz, peak EIRP/density – 14.5 dBW/4KHz)

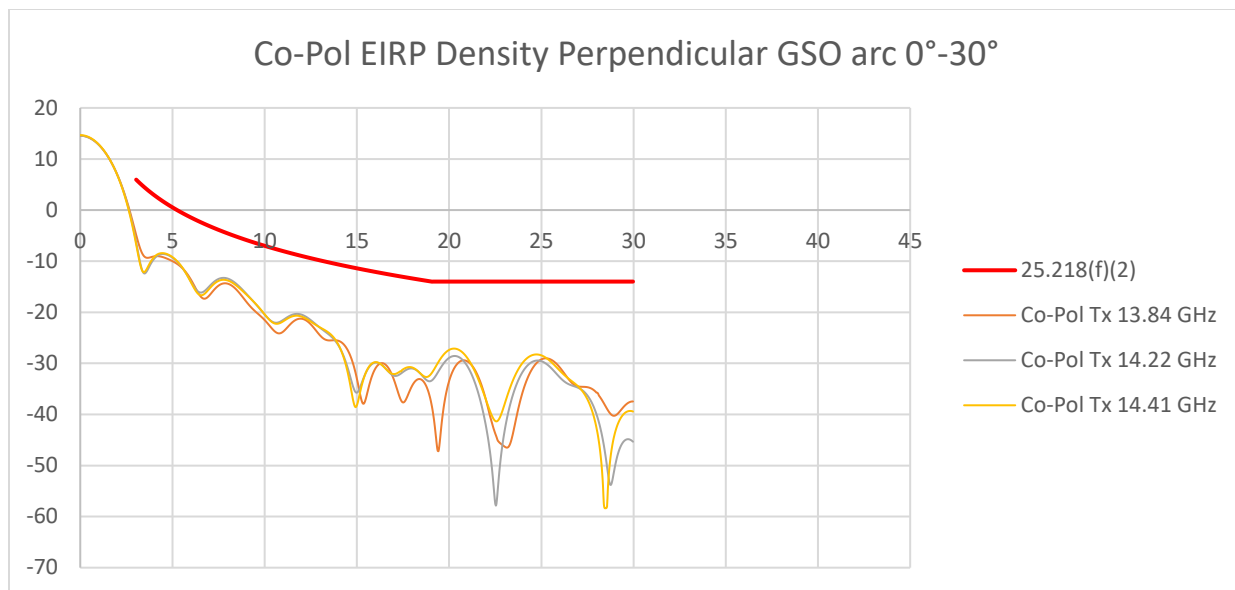
(i) Co-Pol EIRP density in the plane tangent to the GSO arc



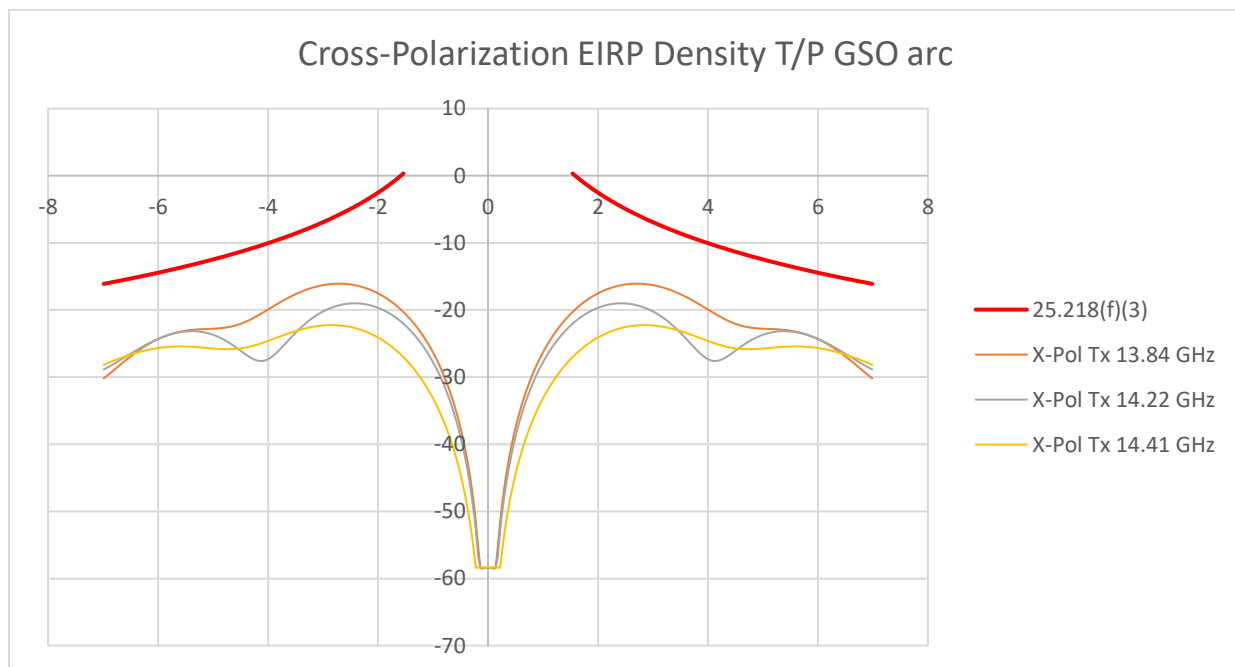
(ii) Co-Pol EIRP density in the plane tangent to the GSO arc



(iii) Co-Pol EIRP density in the plane perpendicular to the GSO arc



(iv-v) Cross-Pol EIRP density in the plane tangent and perpendicular to the GSO arc

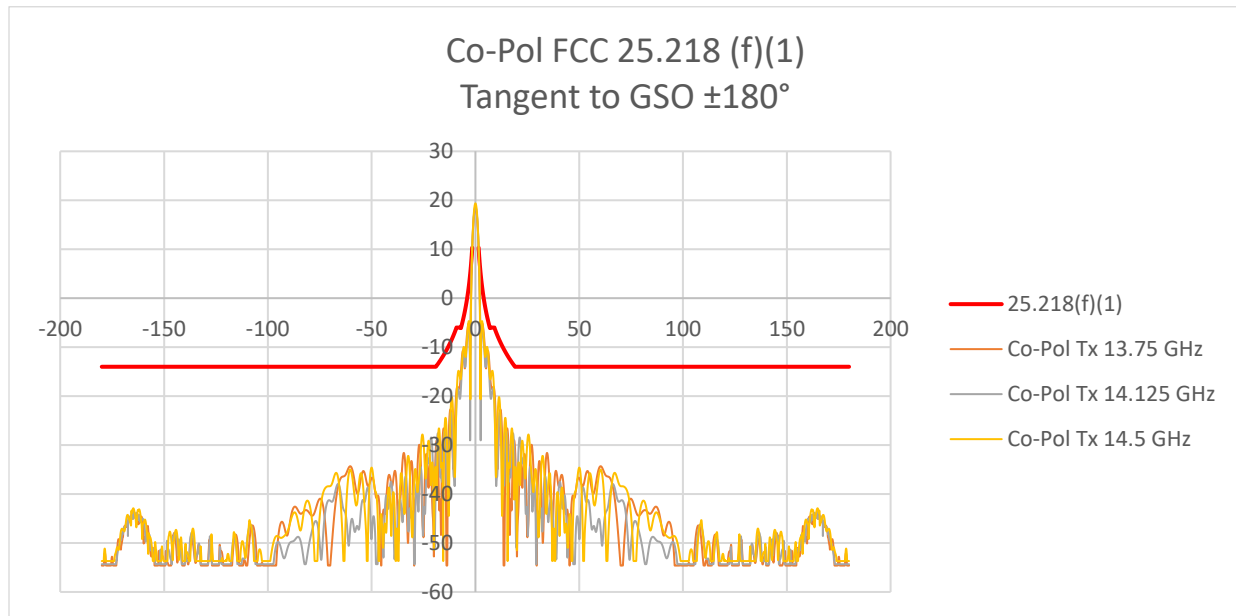


3. EIRP density plots for Paradigm Hornet 80 cm

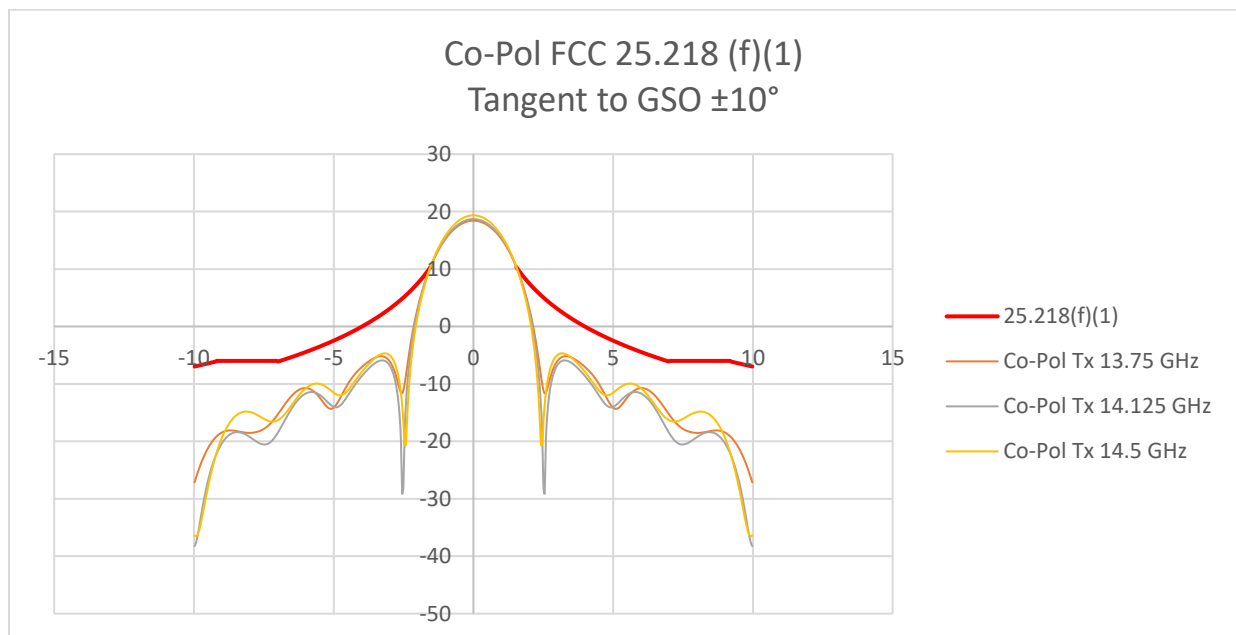
To ensure the EIRP spectral density envelopes specified in §25.218(f) 1-3 are satisfied, the maximum EIRP spectral density is limited to 18.4 dBW/4 kHz. The EIRP density compliance for this terminal is shown below.

EIRP density plots (13.84, 14.22 and 14.41 GHz, peak EIRP/density – 18.4 dBW/4KHz)

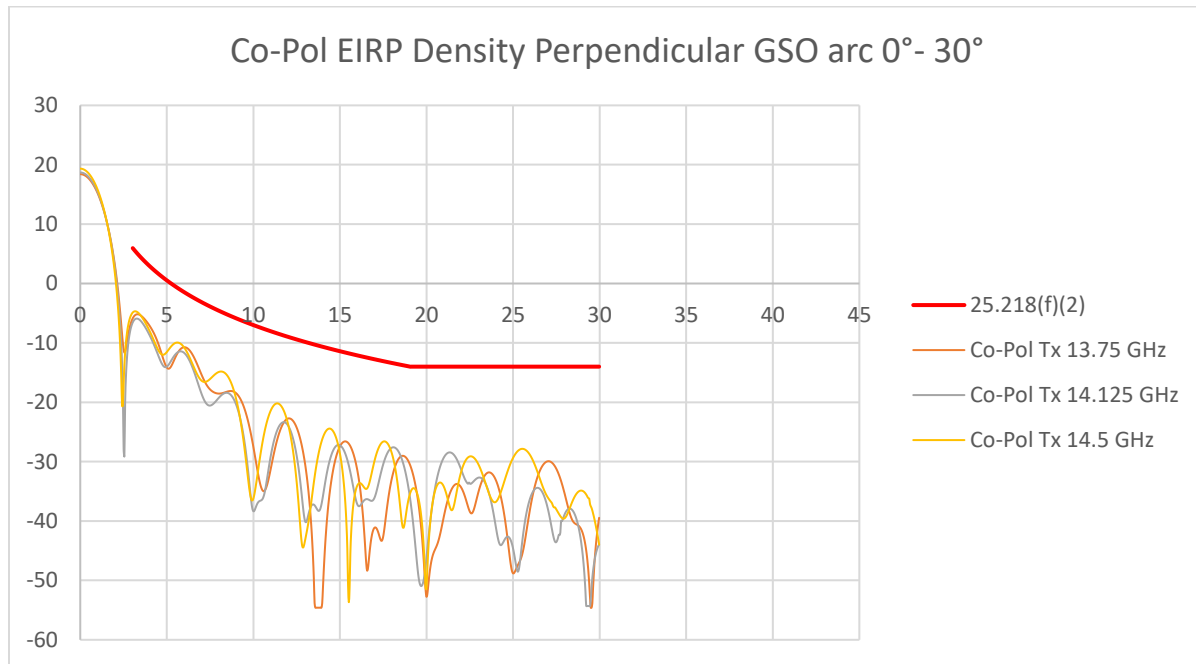
(i) Co-Pol EIRP density in the plane tangent to the GSO arc



(ii) Co-Pol EIRP density in the plane tangent to the GSO arc



(iii) Co-Pol EIRP density in the plane perpendicular to the GSO arc



(iv-v) Cross-Pol EIRP density in the plane tangent and perpendicular to the GSO arc

