1. 44 
$$E_{\omega} = \frac{E_{\omega} \sqrt{\pi}}{\sigma_{\omega}} \sum_{\alpha=1}^{N_{e}} \exp\left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega t_{\alpha}\right]$$
 $N_{p,1} = \frac{1}{E_{\omega}} \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega t_{\alpha}\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right] \int_{0}^{\infty} \left[\frac{(\omega - \omega)^{2}}{4\sigma_{\omega}^{2}} + i\omega \left(t_{\alpha} + t_{\alpha}\right)\right]$