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Let $K = \mathbb{F}_q$ be a finite field with q elements and let X be a subset of the projective space \mathbb{P}^{s-1} , over the field K , which is parameterized by monomials. We study the evaluation code $C_X(d)$ associated to X . We compute the dimension and the length of $C_X(d)$ using the standard K -algebra $S/I(X)$, where $S = K[t_1, \dots, t_s]$ is a polynomial ring and $I(X)$ is the vanishing ideal of X . In some cases, we also compute the minimum distance. (Received April 09, 2010)