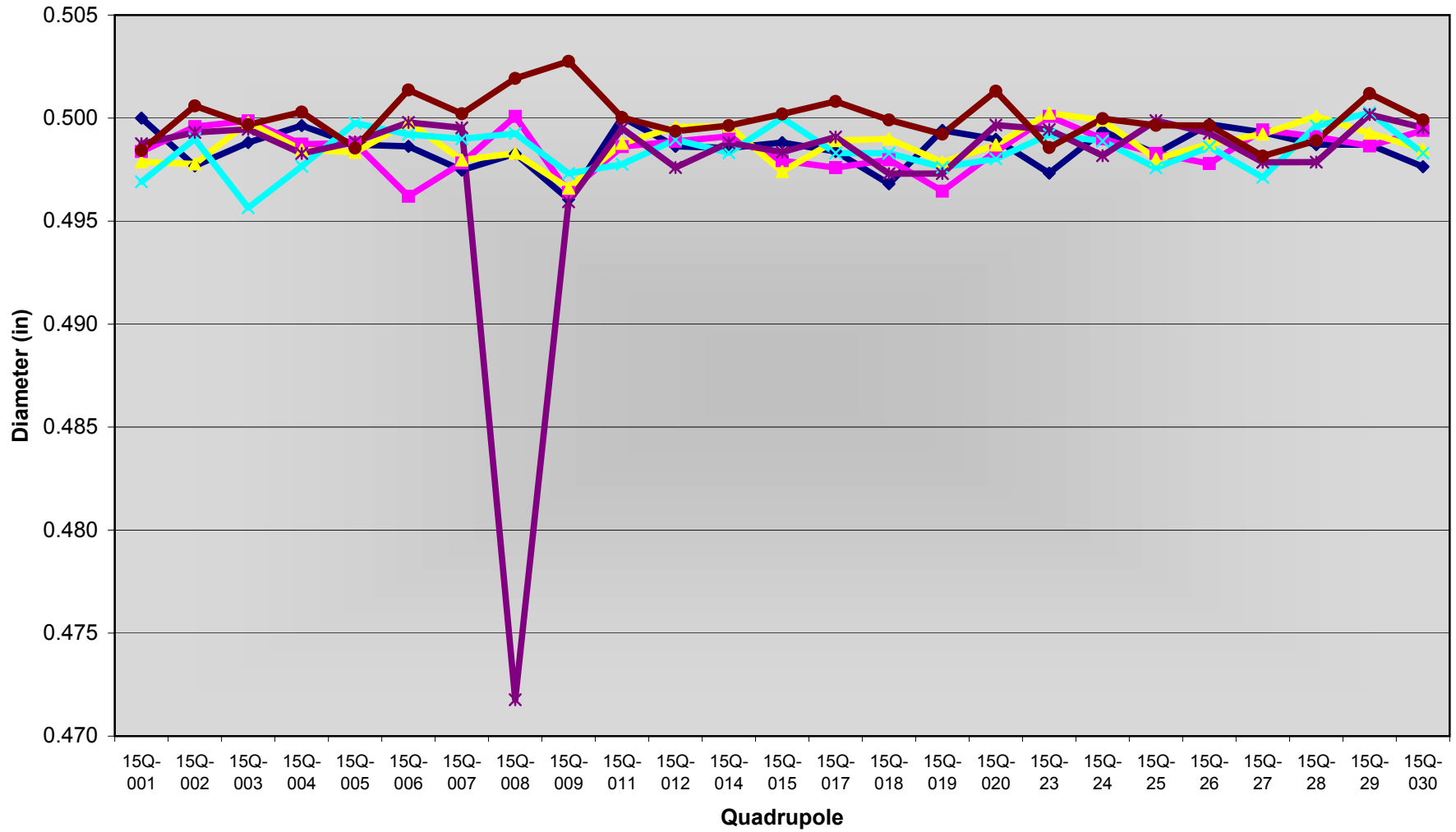
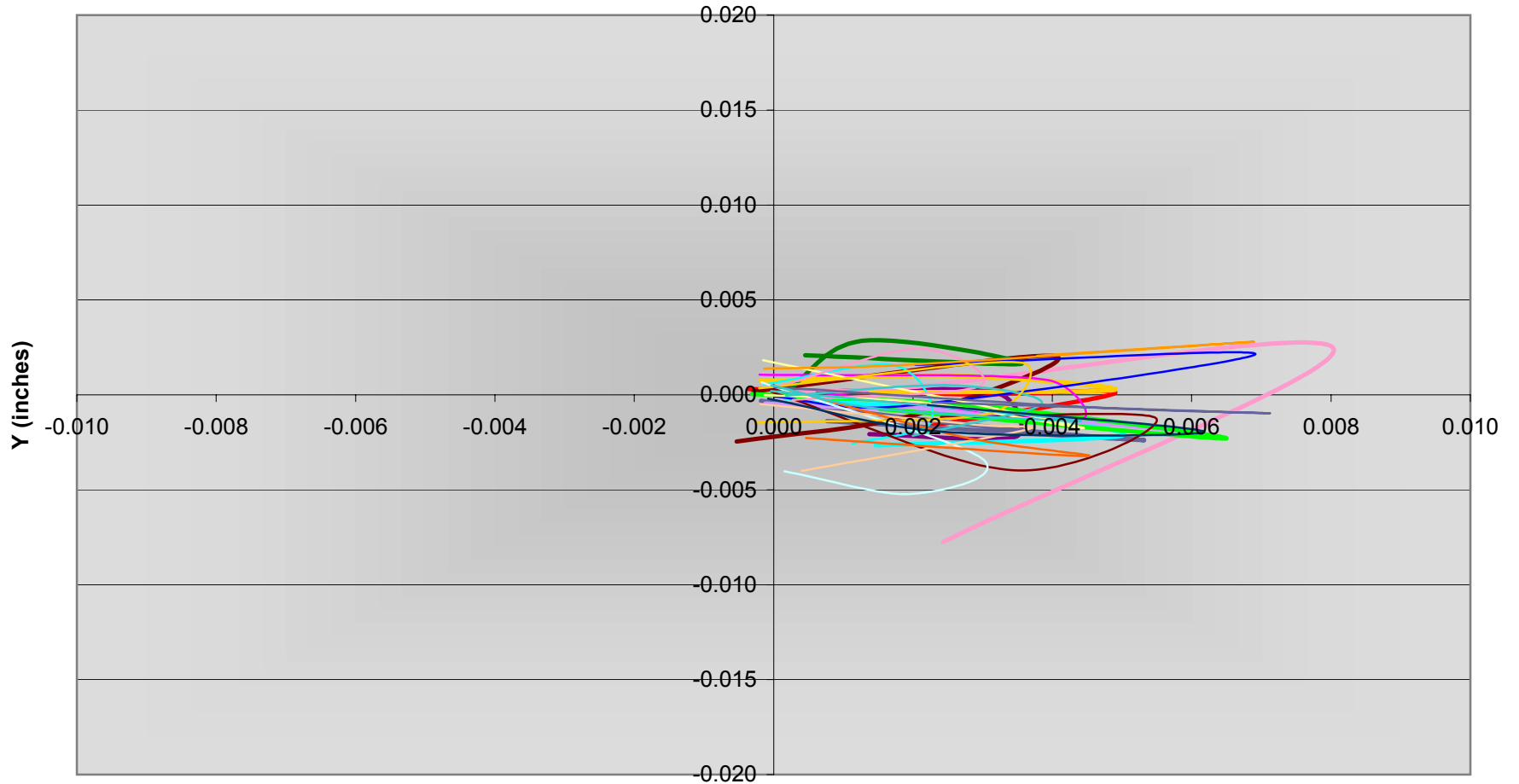


15Q Tooling Ball Diameters

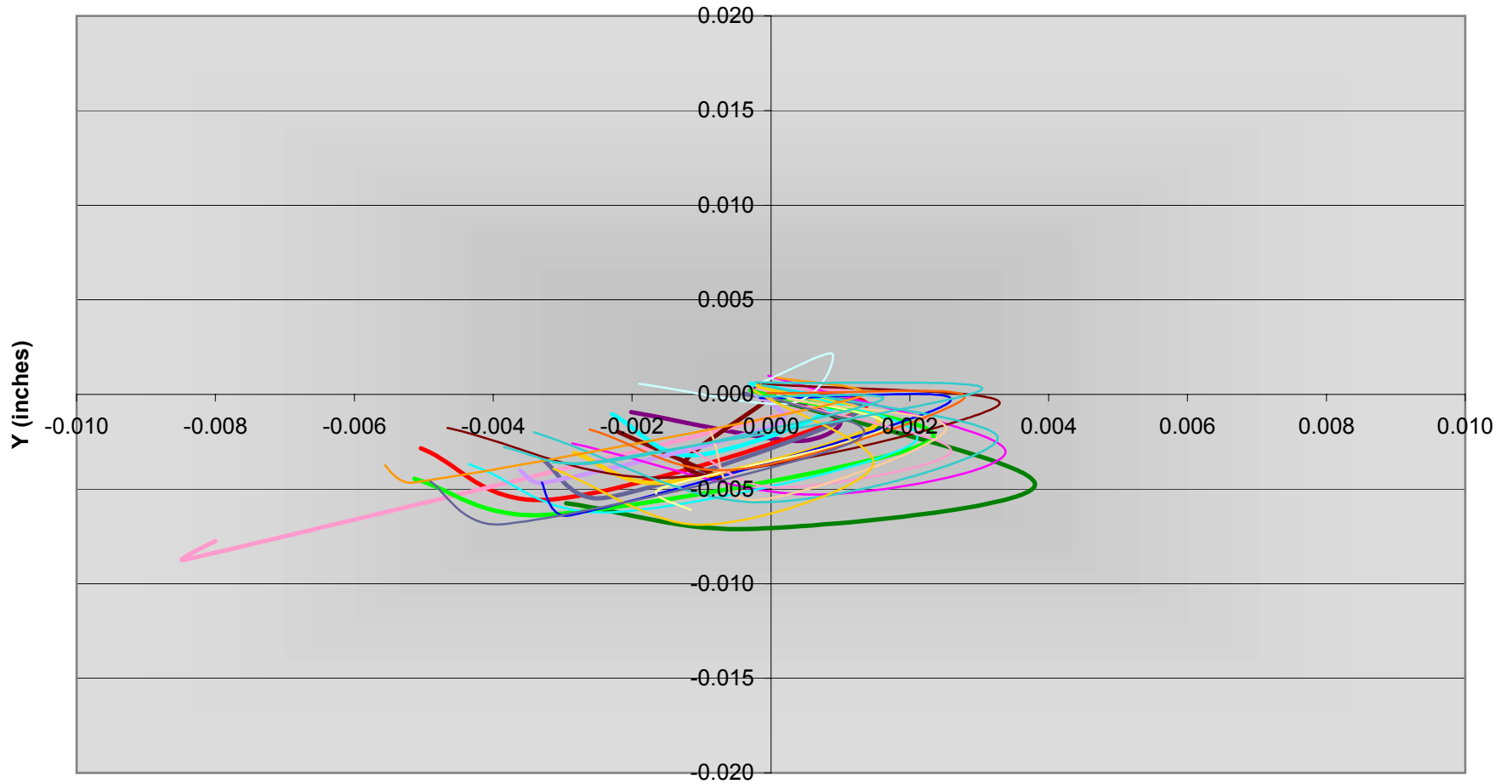


15Q One-Piece Upstream Mandrel Positions



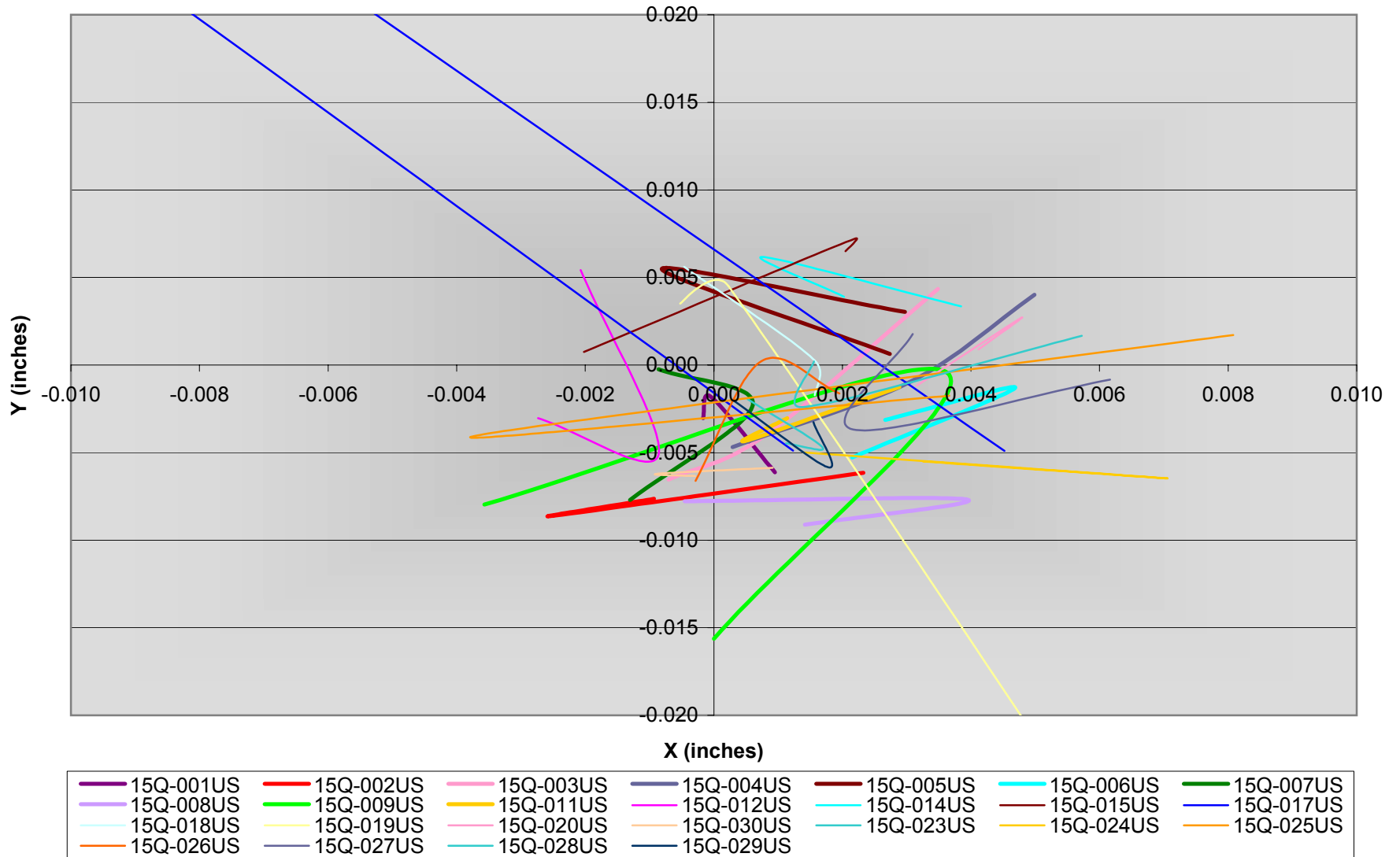
X (inches)						
15Q-001US	15Q-002US	15Q-003US	15Q-004US	15Q-005US	15Q-006US	15Q-007US
15Q-008US	15Q-009US	15Q-011US	15Q-012US	15Q-014US	15Q-015US	15Q-017US
15Q-018US	15Q-019US	15Q-020US	15Q-030US	15Q-023US	15Q-024US	15Q-025US
15Q-026US	15Q-027US	15Q-028US	15Q-029US			

15Q One-Piece Downstream Mandrel Positions

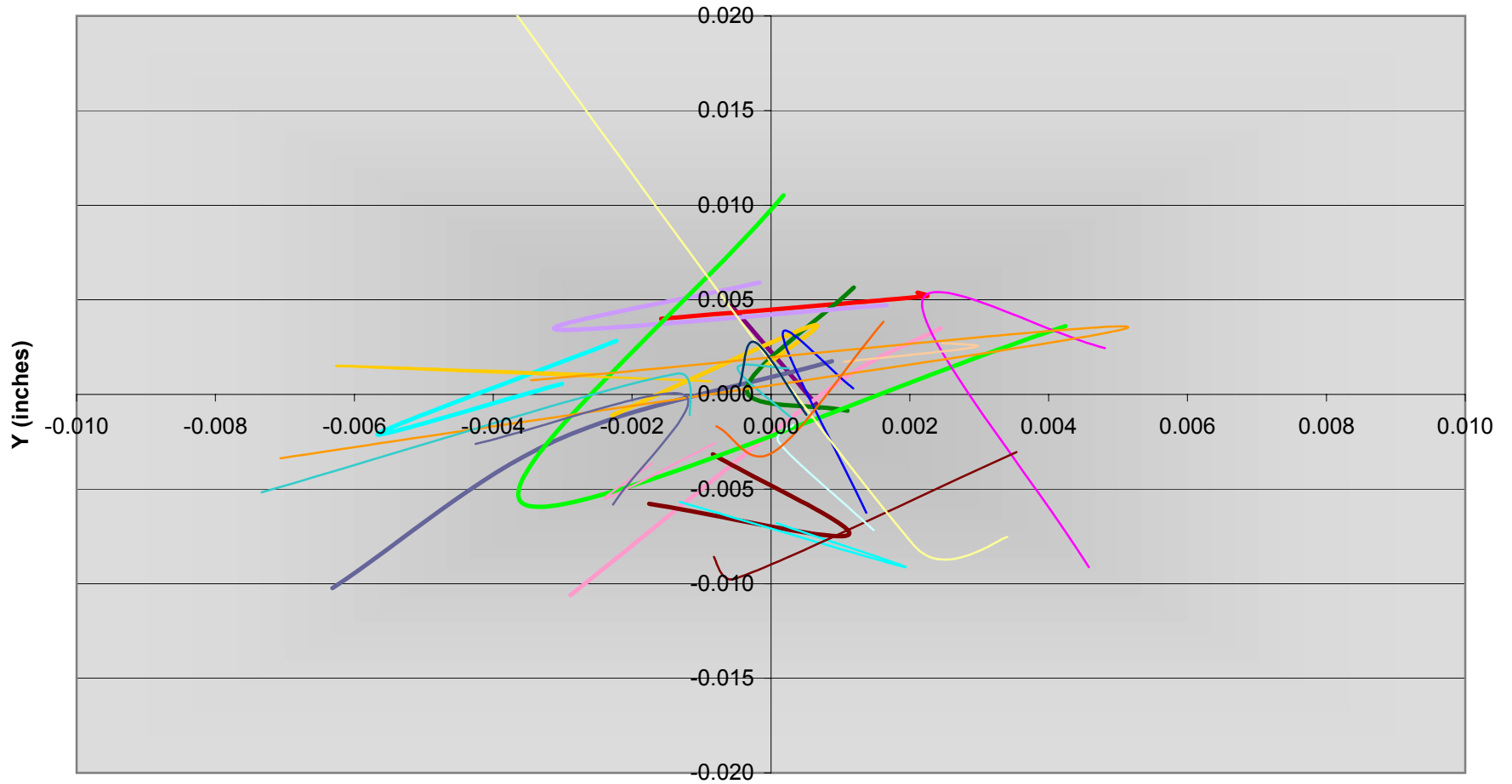


15Q-001DS	15Q-002DS	15Q-003DS	15Q-004DS	15Q-005DS	15Q-006DS	15Q-007DS
15Q-008DS	15Q-009DS	15Q-011DS	15Q-012DS	15Q-014DS	15Q-015DS	15Q-017DS
15Q-018DS	15Q-019DS	15Q-020DS	15Q-030DS	15Q-023DS	15Q-024DS	15Q-025DS
15Q-026DS	15Q-027DS	15Q-028DS	15Q-029DS			

15Q Three-Piece Upstream Mandrel Positions



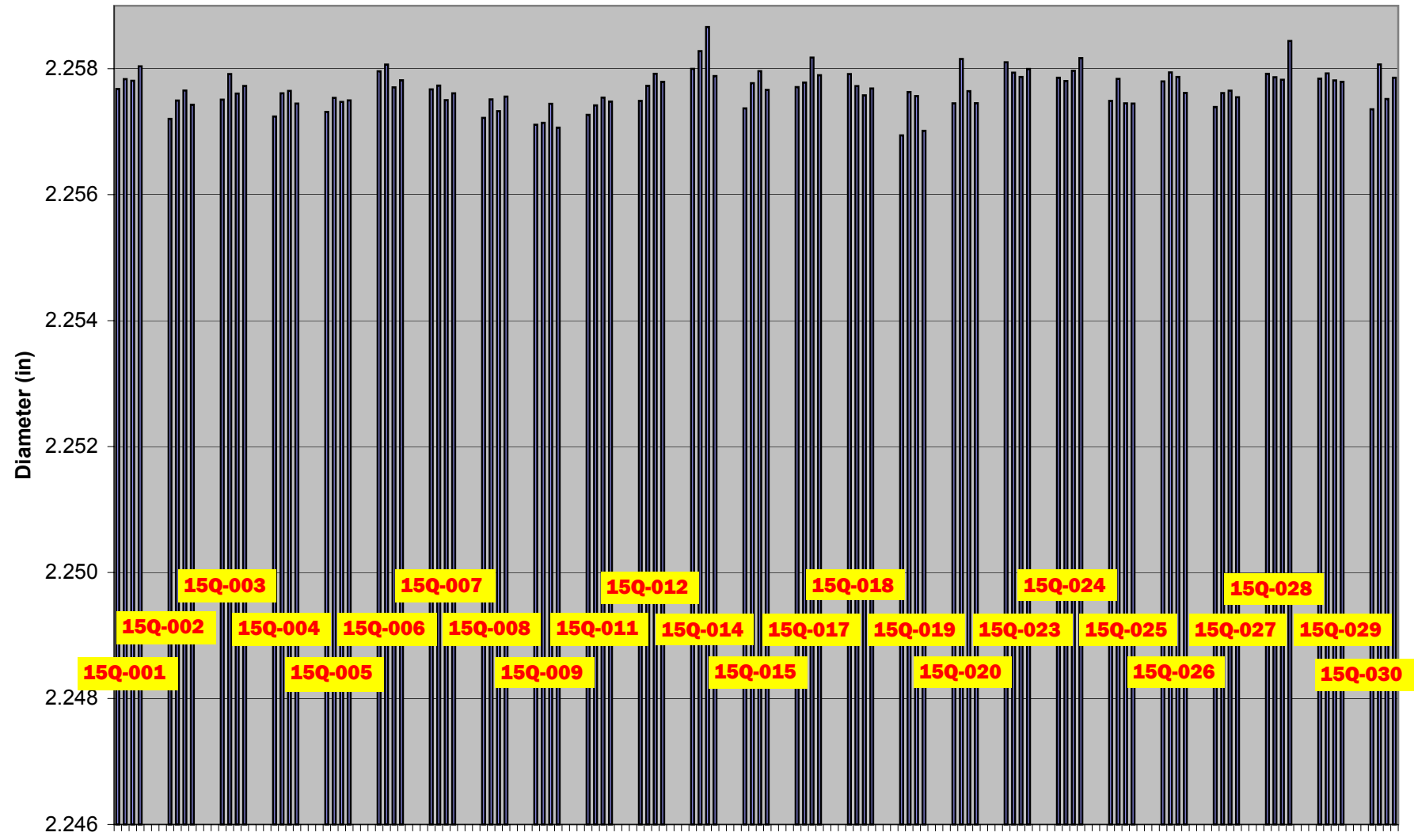
15Q Three-Piece Downstream Mandrel Positions



15Q-001DS	15Q-002DS	15Q-003DS	15Q-004DS	15Q-005DS	15Q-006DS	15Q-007DS
15Q-008DS	15Q-009DS	15Q-011DS	15Q-012DS	15Q-014DS	15Q-015DS	15Q-017DS
15Q-018DS	15Q-019DS	15Q-020DS	15Q-030DS	15Q-023DS	15Q-024DS	15Q-025DS
15Q-026DS	15Q-027DS	15Q-028DS	15Q-029DS			

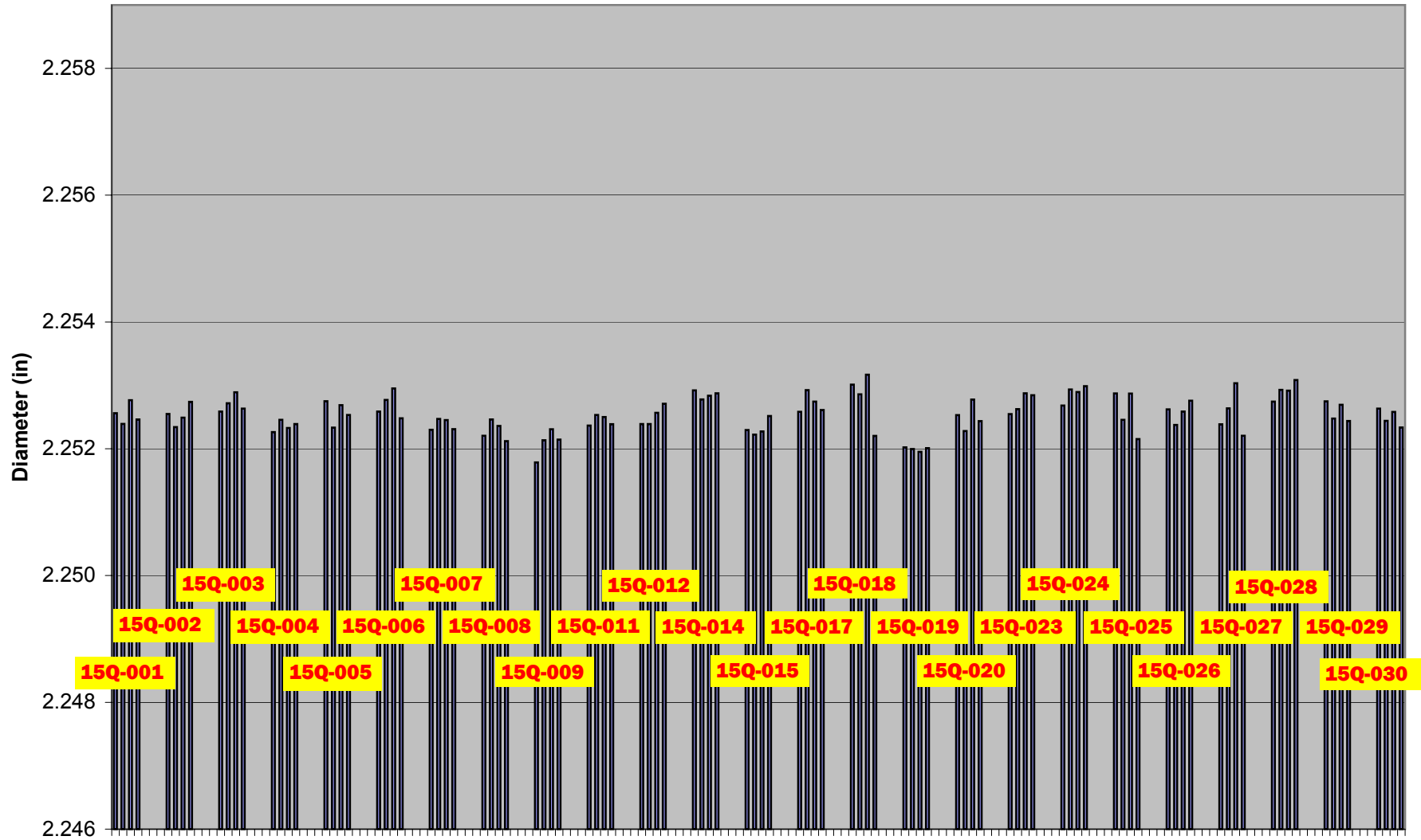
15Q Upstream One-Piece Mandrel Diameter

Readings From Four Positions



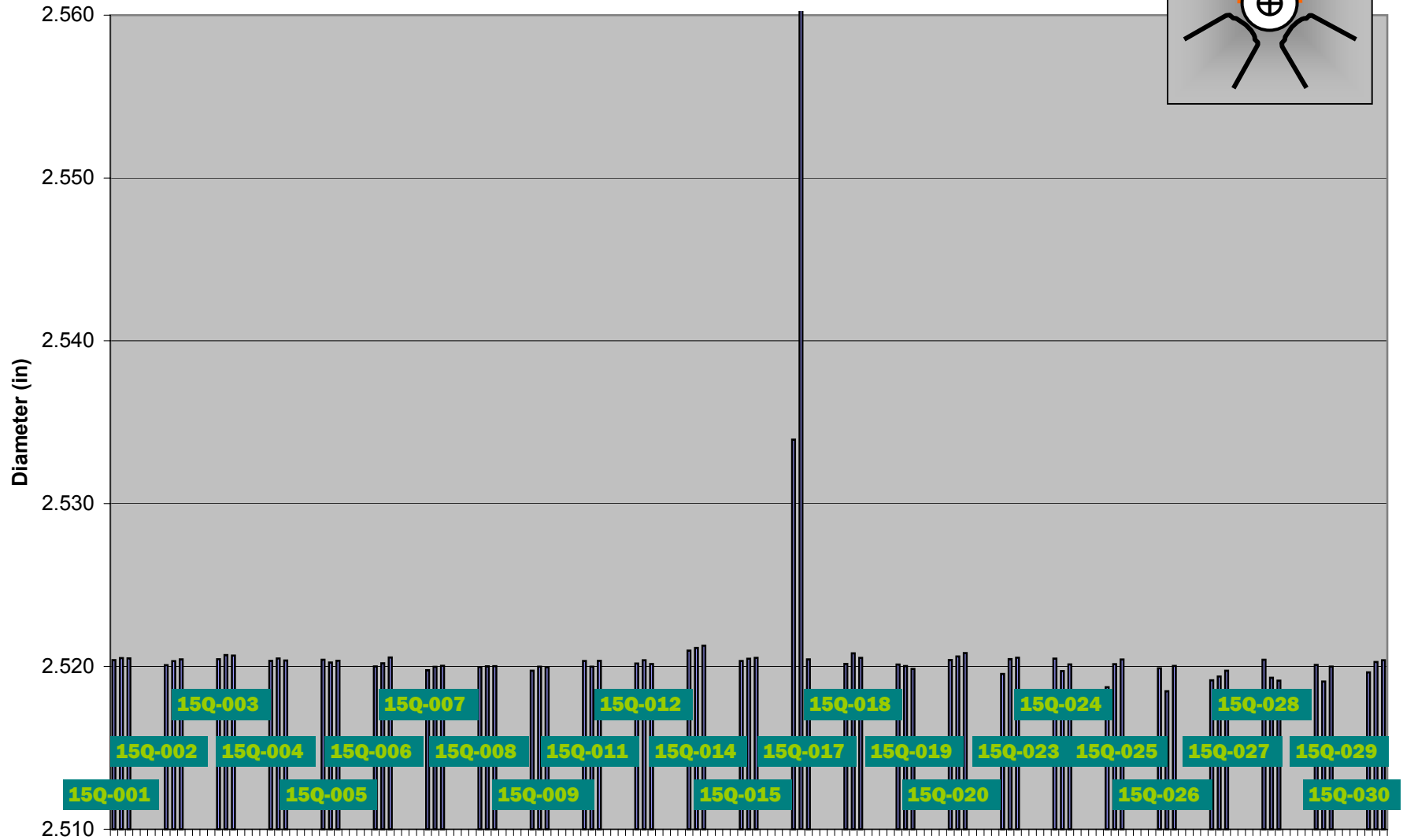
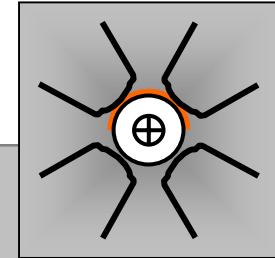
15Q Downstream One-Piece Mandrel Diameter

Readings From Four Positions



15Q Upstream Three-Piece Mandrel Diameter

Three Repeated Readings in Position One



15Q Downstream Three-Piece Mandrel Diameter

Three Repeated Readings in Position One

