

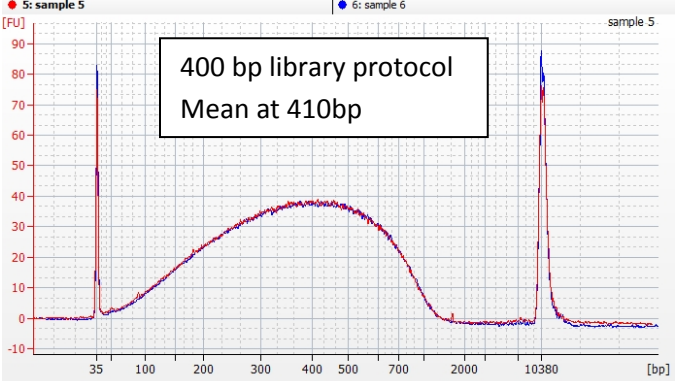
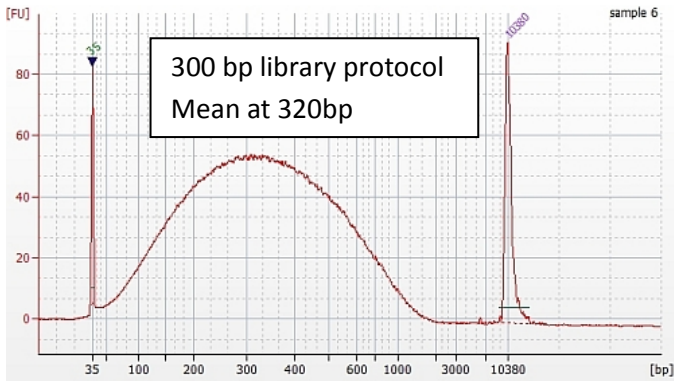
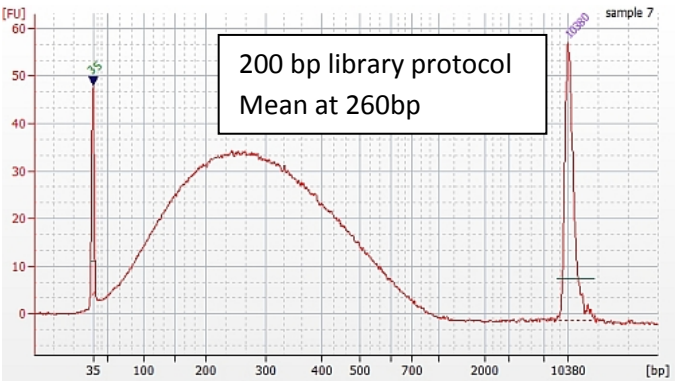
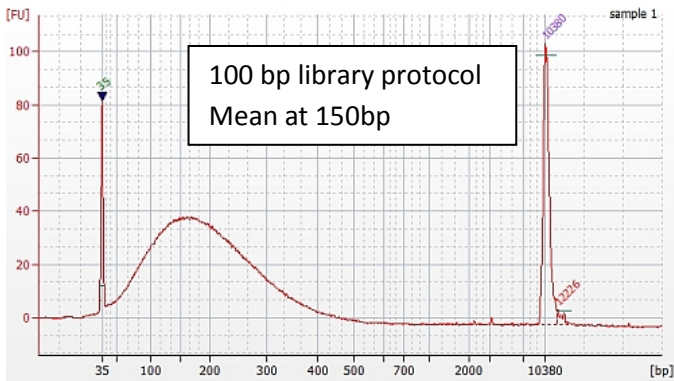
DNA Shearing Protocols for Ion Torrent Platforms with the M220 Focused-ultrasonicator



For use with the Ion Xpress™ Plus gDNA Fragment Library Preparation User Guide

microTUBE AFA Fiber Screw-Cap – 50 µl sample

Library Size	100 bp	200 bp	300 bp	400 bp
Mean Fragments Size	150 bp	260 bp	320 bp	420 bp
Peak Incident Power (W)	50	50	50	50
Duty Factor	20%	20%	20%	20%
Cycles per Burst	200	200	200	200
Treatment Time (s)	375	130	100	60
Temperature (°C)	20	20	20	20
Sample volume (µl)	50	50	50	50



Note: The parameters differ from the settings published in our [Quick Guide: DNA shearing with M220 Focused-ultrasonicator](#). Our Quick Guide has been developed using the Agilent 12k DNA Kit and the fragment size distribution representations are not identical between this kit and the Agilent High Sensitivity DNA Kit. We recommend, Ion Torrent users follow the settings developed specifically for Ion Torrent platforms.