

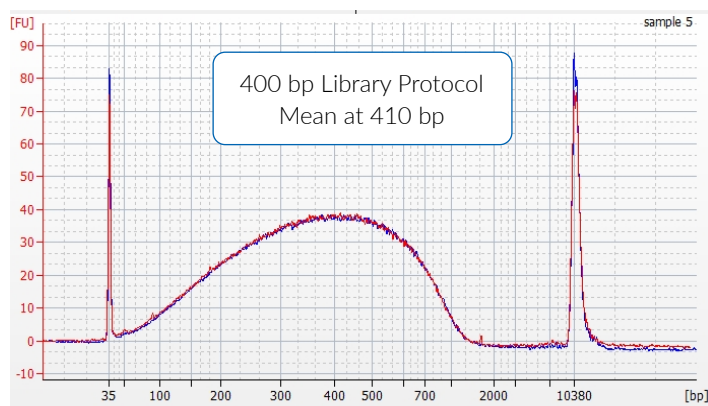
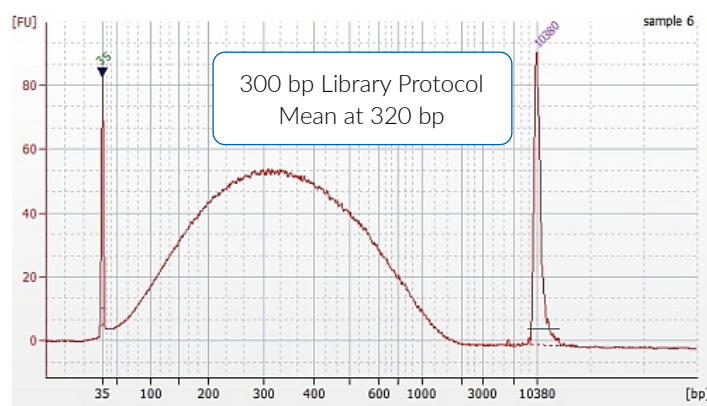
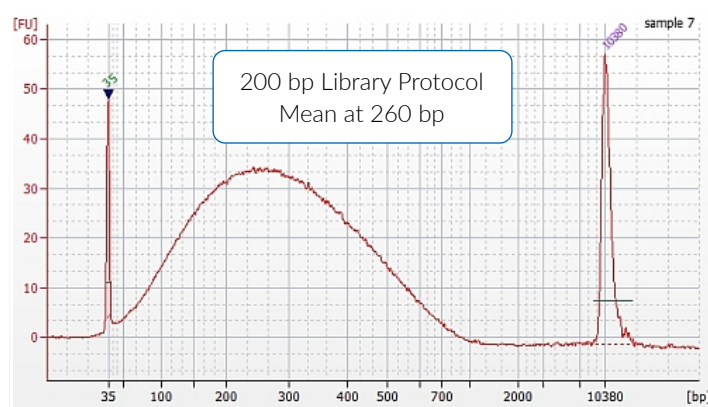
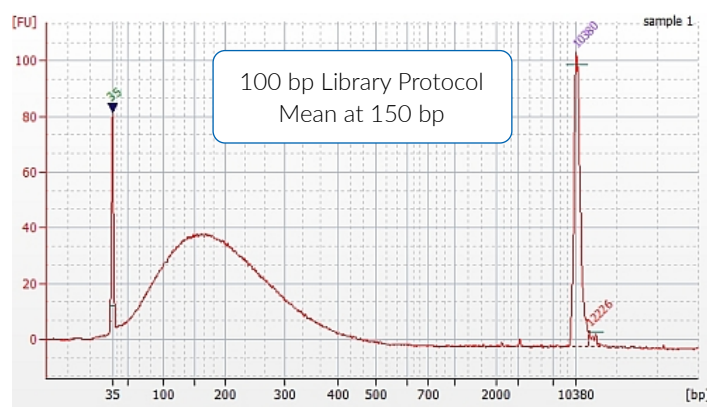
DNA Shearing Protocols for Thermo Fisher Ion Torrent Platforms with the M220 Focused-ultrasonicator



For use with the Ion Xpress™ Plus gDNA Fragment Library Preparation User Guide (C/N: 4471269)

microTUBE AFA Fiber Screw-Cap (PN 520096) – 50 µL sample

Library Size (bp)	100	200	300	400
Mean Fragments Size (bp)	150	260	320	420
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 that Ion Torrent users follow the settings specifically developed for Ion Torrent platforms. For additional information regarding this platform: visit www.thermofisher.com