Simplified Sample Prep
Your Key to Superior Analyses

Rick Headrick
Midwest Regional Sales Manager
Milestone Inc.
About Milestone

• Established in 1988

• Over 20,000 instrument installations worldwide ranging from Fortune 500, Academia, Government Agencies, Independent Contact Labs, Manufacturing

• Global Footprint
  • US Headquarters: Shelton, CT
    • Full sales and service support
    • Applications lab and technical support
    • Parts inventory
  • European Headquarters: Bergamo, Italy
  • R&D/Manufacturing: facilities in Germany and Switzerland
Milestone Solutions

Over 30 patented technologies:

- Microwave Digestion
- Microwave Extraction
- Microwave Synthesis
- Microwave Ashing
- Direct Mercury Analysis
- Clean Chemistry
Microwave Digestion Systems
What is right for your lab?

- What are my sample types?
- What are my elements of interest?
- What is my acid chemistry?
- **What temperature (and pressures) will be required for digestion?**
## Available Microwave Technologies

<table>
<thead>
<tr>
<th>Specification:</th>
<th>Sequential systems</th>
<th>MW Multimode</th>
<th>SRC technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working temperature with an organic sample</td>
<td>200 °C</td>
<td>240 °C</td>
<td>300 °C</td>
</tr>
<tr>
<td>Maximum pressure capability</td>
<td>~30 bar</td>
<td>100 bar</td>
<td>200 bar</td>
</tr>
<tr>
<td>Number of samples per run</td>
<td>One vial per run</td>
<td>15 vessels per run</td>
<td>15 vials per run</td>
</tr>
<tr>
<td>Typical Digestion Time (including cooling time)</td>
<td>10 - 15 minutes for each vials</td>
<td>1h and 30 min for 15 vessels</td>
<td>Less than 1h for 15 vials</td>
</tr>
<tr>
<td>Productivity</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
</tbody>
</table>
Thank You!