



## Comparison of the Silicone Wristband PSD vs. Other Sampling Materials

Desired properties	Activated charcoal (AC)*	Polyethylene (PE)*	Polyurethane Foam (PUF)*	Thermal desorption sorbents*	Silicone Wristband
<i>Uniform capture</i>	Yes	Yes	Yes	Yes	Yes
<i>Stable storage</i>	Yes	Yes	Unknown	Conditionally	Yes <i>(on-going)</i>
<i>Broad, multi-class capture</i>	No	Yes	Yes	Conditionally	Broadest known
<i>No power necessary</i>	Yes	Yes	Yes	Yes	Yes
<i>Ambient transport</i>	Yes	Yes	Unknown	Yes	Yes <i>(on-going)</i>
<i>Biologically inert</i>	Yes	No	Yes	Conditionally	Yes
<i>Time-integrated</i>	Yes	Yes	Yes	Yes	Yes
<i>Non-invasive</i>	Yes	Yes	Yes	Yes	Yes
<i>Easy to use</i>	No	Yes	Yes	No	Yes
<i>Light-weight</i>	Yes	Yes	Yes	Conditionally	Yes
<i>Sensitive</i>	No	Yes	Yes	Yes	Yes
<i>Rugged</i>	No	No	No	Conditionally	Yes

\* Cannot be constructed into an easy to wear personal sampler

Additional information about the FSES Program's silicone wristband PSD technology can be found on our website at <http://fses.oregonstate.edu/wb-technical>