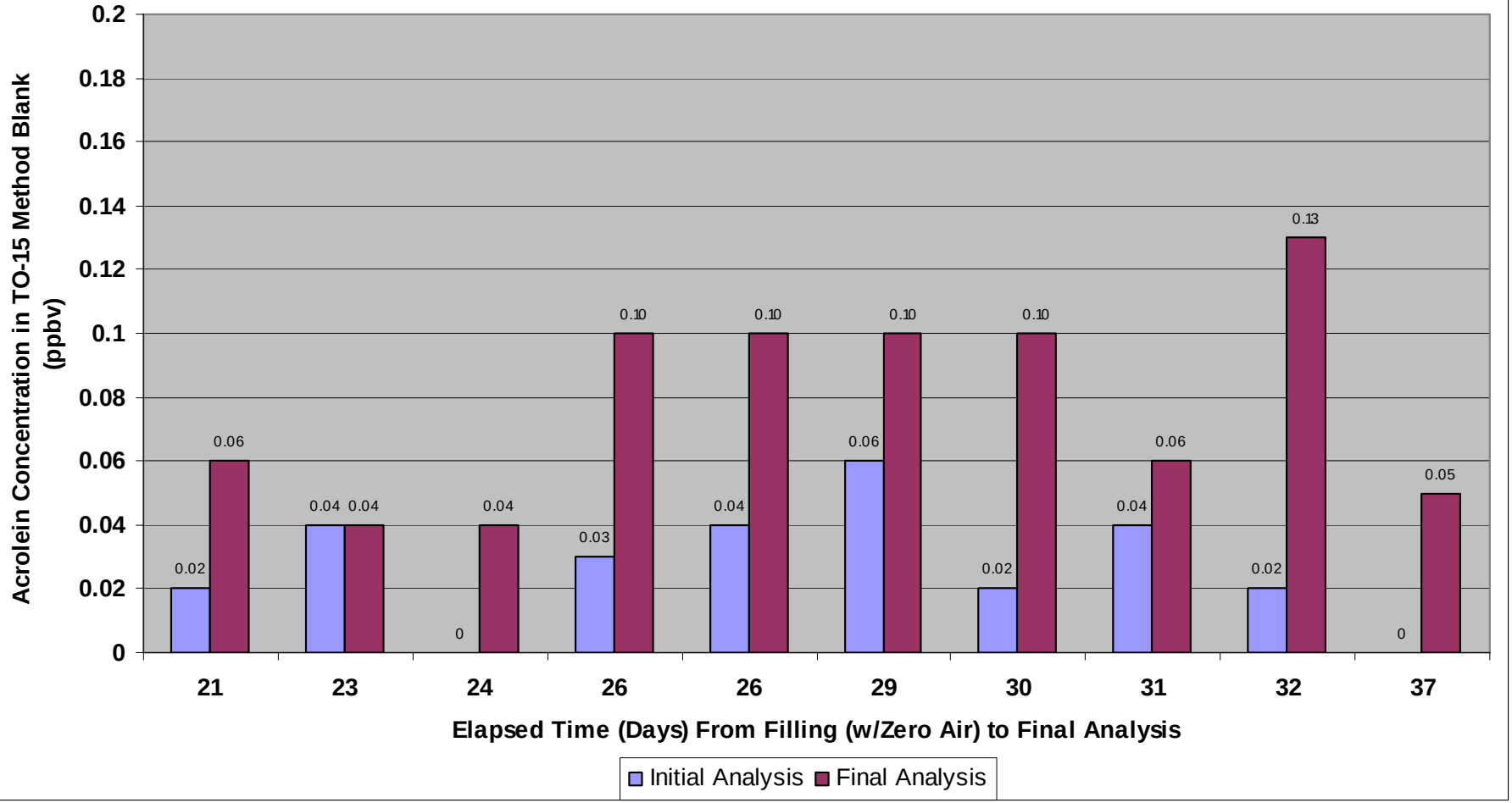
Summary of Vermont's Acrolein TO-15 Results

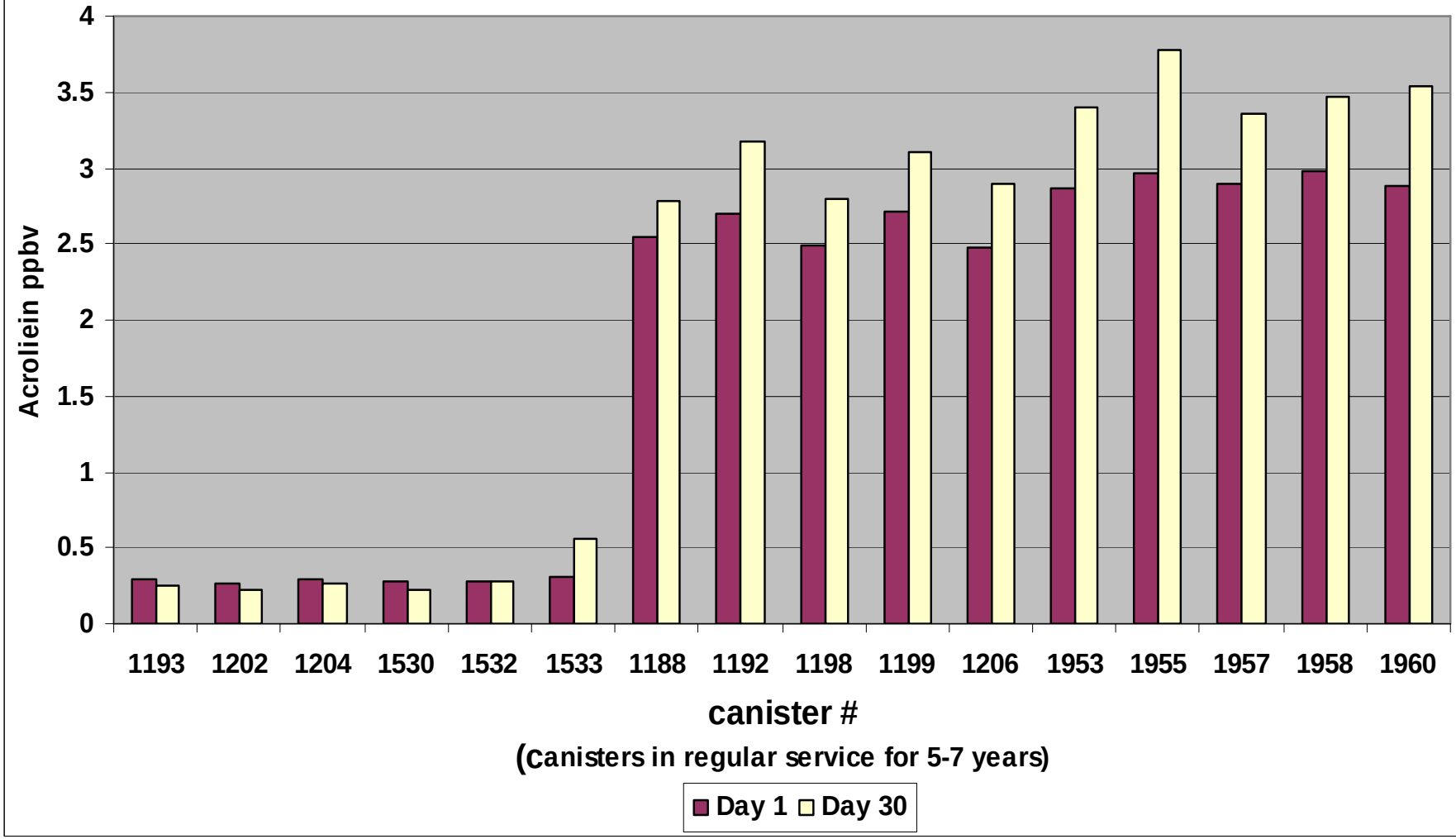
- All results are from 6L *RESTEK SilcoCan* canisters with pressure/vacuum gauges
- Vermont's canister inventory includes multiple generations of *SilcoCan* with different valves
- Canisters have various years in service; 2-7 yrs
- All TO-15 Results from 2008 (and Jan.,2009)
- Generated using GC/MS SIM method developed by ERG

Acrolein Concentration in Vermont TO-15 Method Blank Canisters

RESTEK SilcoCan w/gage filled with Humidified Zero Air to 2-5 psig; ppbv Results of Initial and Final Analysis Compared to Elapsed Time (Days) From Filling to Final Analysis

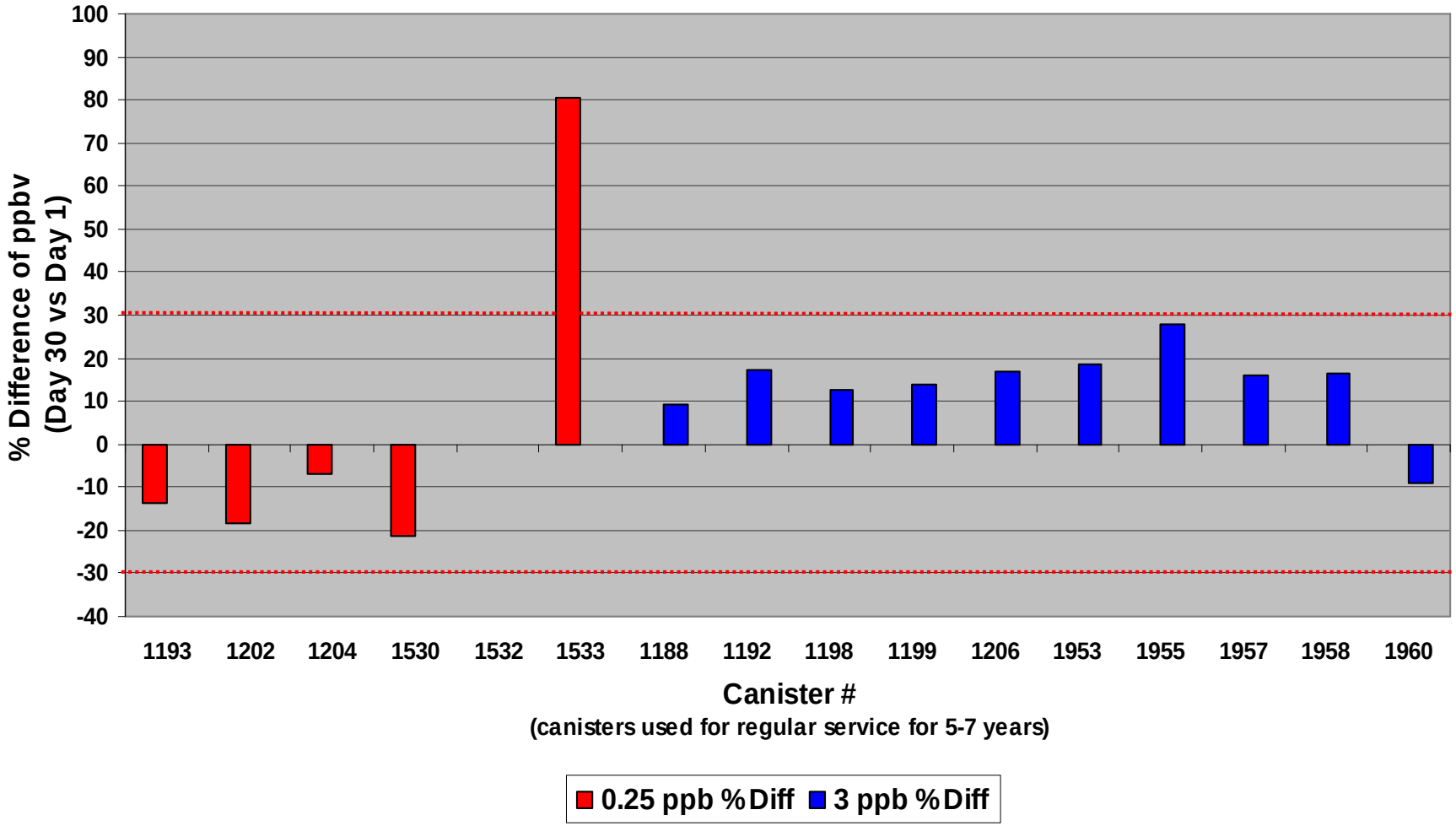


Acrolein 30-day Stabilty Results for Vermont 6L Canisters (*RESTEK SilcoCan* w/ guage); ppbv Results From 60-component TO-15 Standard Prepared at 0.25 and 3.0 ppbv with Humidified Zero Air; Canisters Cleaned @ 90°C



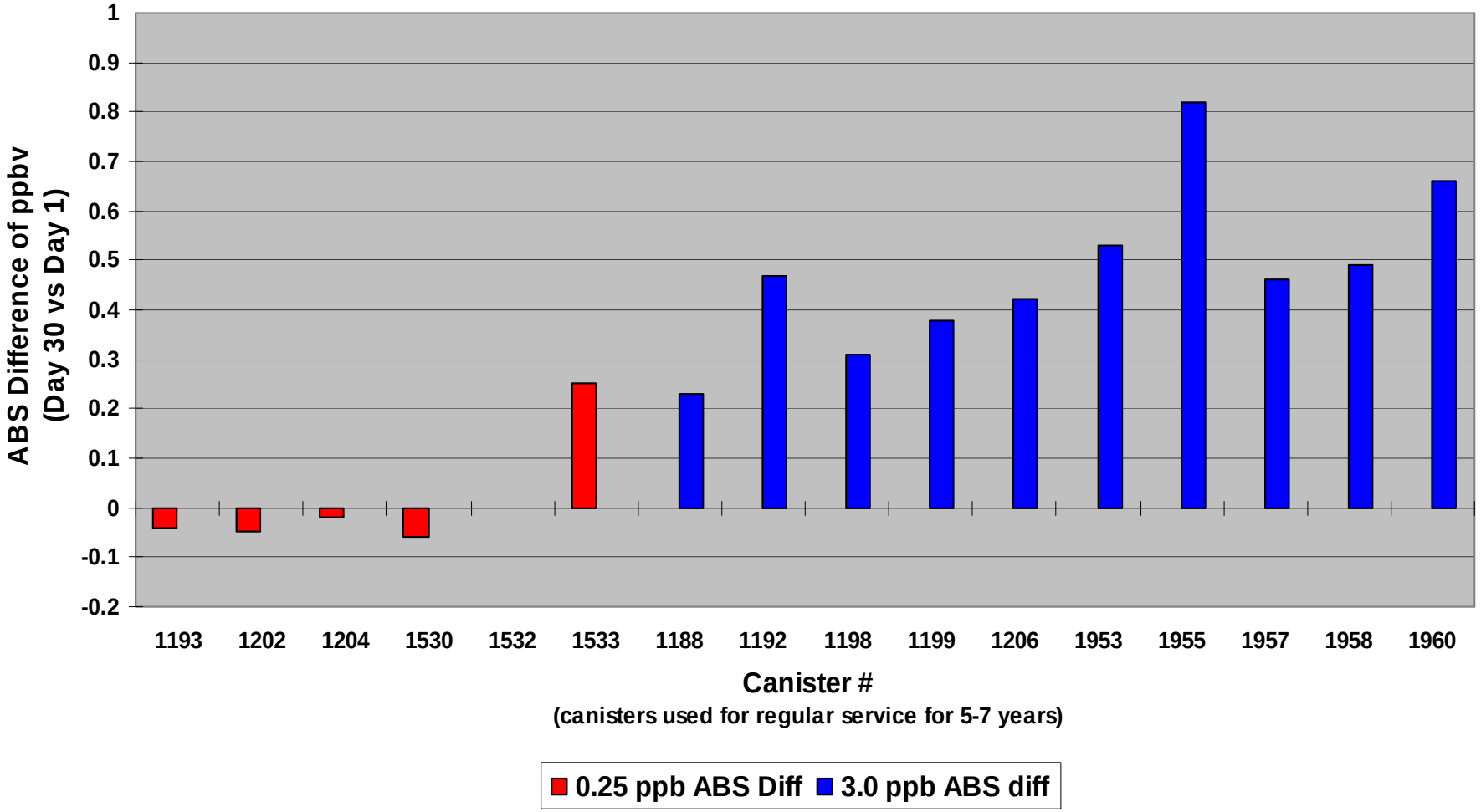
Acrolein 30-Day Stability Results for Vermont 6L Canisters

RESTEK SilcoCan with Pressure Gage; Analysis of 60-component TO-15 Standard Prepared at 0.25 ppb and 3.0 ppb with Humidified Zero Air; Cleaned @ 90°C **(% Difference of ppbv Day 30 vs Day 1)**



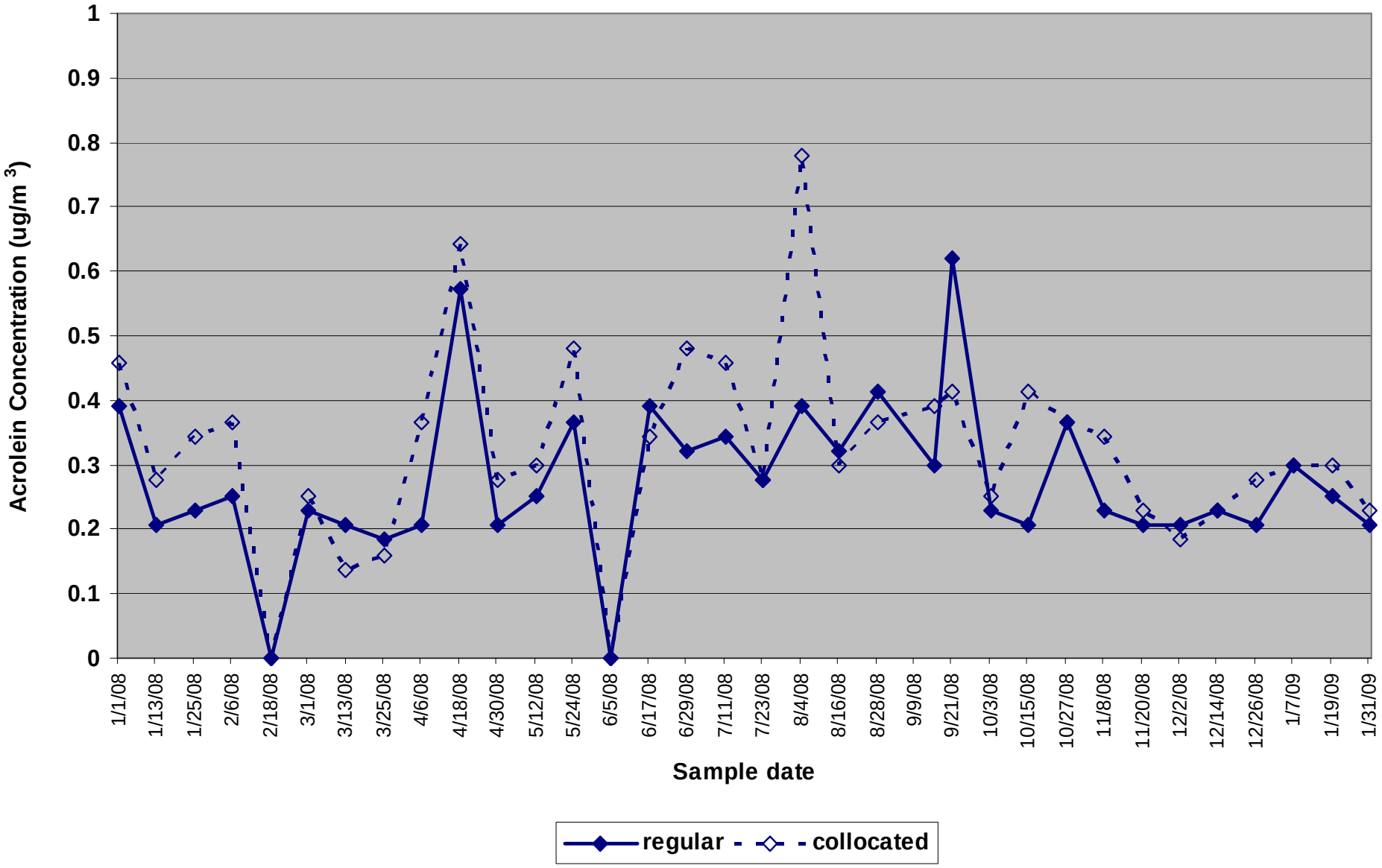
Acrolein 30-Day Stability Results for Vermont 6L Canisters

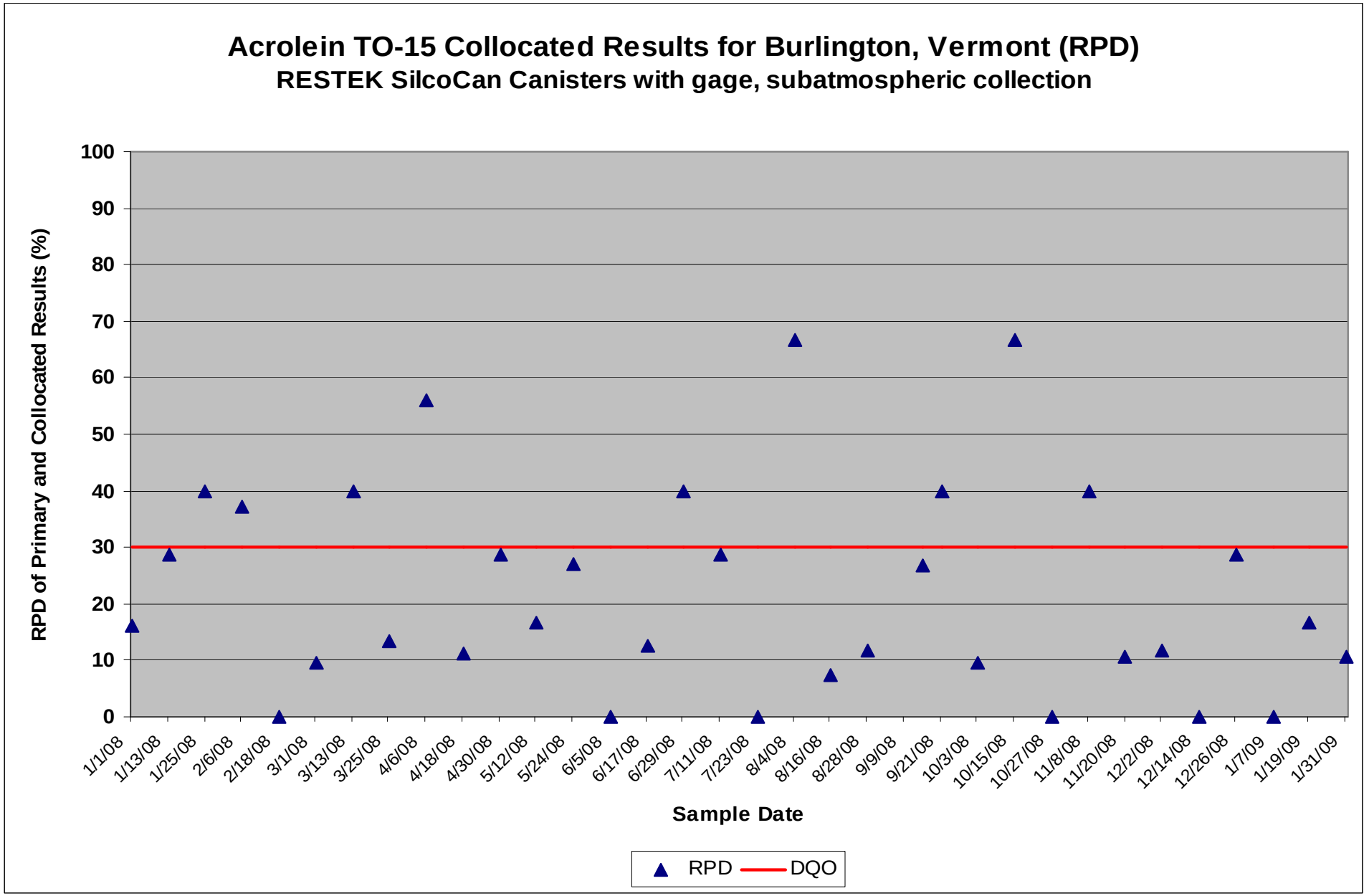
RESTEK SilcoCan with Pressure Gage; Analysis of 60-component TO-15 Standard Prepared at 0.25 ppb and 3.0 ppb with Humidified Zero Air; Cleaned @ 90^{o}C **(ABS Difference of ppbv Day 30 vs Day 1)**



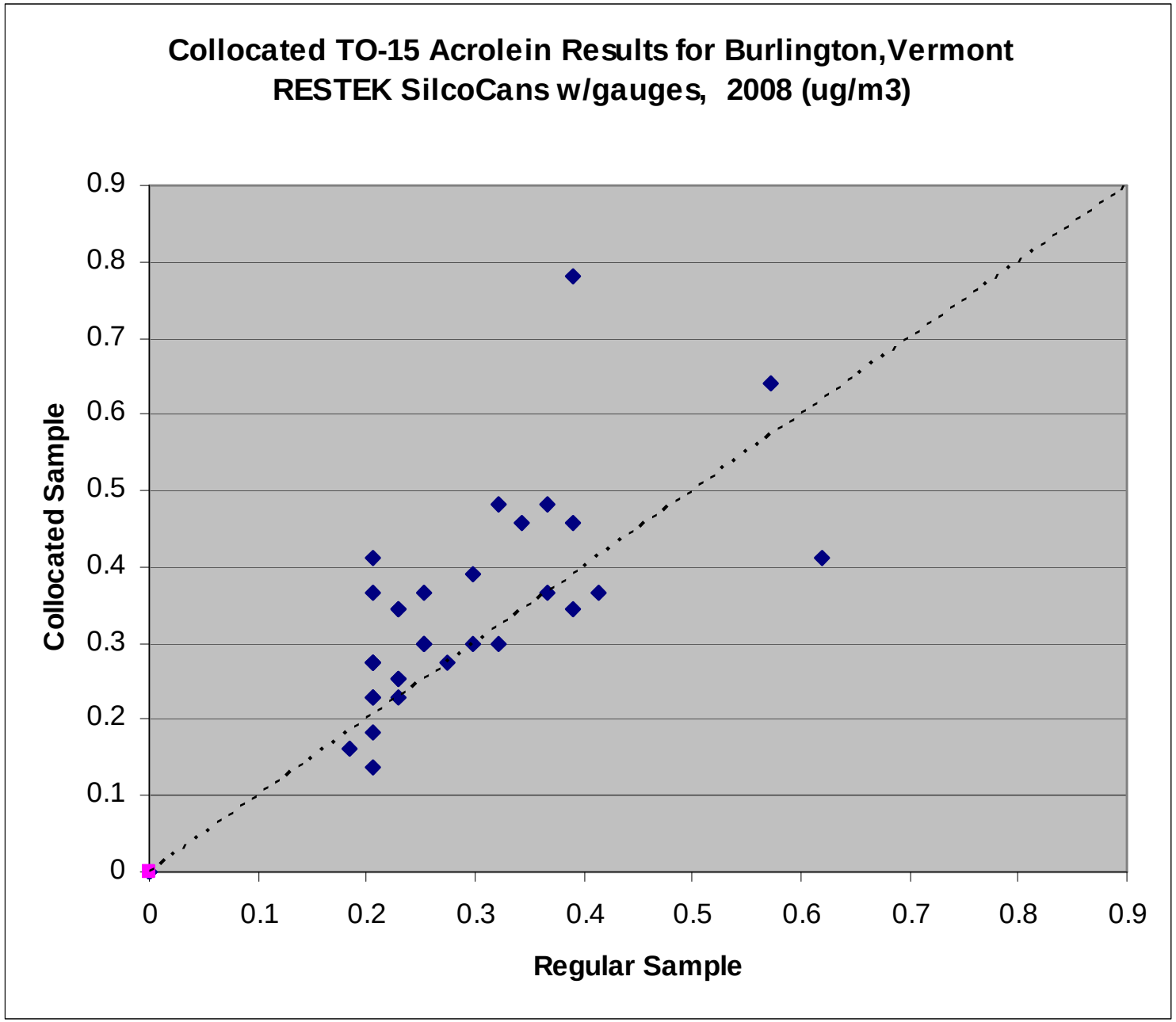
Acrolein Collocated TO-15 Results for Burlington, Vermont

RESTEK SilcoCan Canisters with gage, subatmospheric collection(ug/m^3)





Average Acrolein method precision = 22% (RPD)


Collocated TO-15 Acrolein Results for Burlington,Vermont
RESTEK SilcoCans w/gauges, 2008 (ug/m3)
Collocated Sample
Regular Sample
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9