



2017 – 2019 North American Round Robin: “A Strategic Alliance with Global Partners and Participants”

**Presentation by
Environment and Climate Change Canada (ECCC)**



ATV Round-Robin Testing Program

- History and Purpose
- Inter-Agency Coordination
- Structure of the Voluntary Program
- Key Analyses and Report



Purpose of Round Robin Testing

- Background:
 - Emission data impacts compliance determinations for both regulators and regulated industries
 - Data quality issues observed in application review and field audits
- Purpose:
 - Not an audit
 - Voluntary program
 - Mutually beneficial to all
 - Demonstrate correlation among emission test laboratories regulatory agencies—promotes confidence and collaboration
 - Keeping level playing field



Key Analysis and Report

Key Analysis:

- T distribution analysis at confidence level of 95% for:
 - FTP weighted: HC, CO, NO_x, HC+NO_x, and CO₂
 - FE and test distance
 - ARB EVAP: Diurnal and hot soak
 - GHG, if any (Phase II only)
 - Mean of all the labs and mean of three agencies

Report:

- Final report detailing methods and vehicles
- The final overall correlation report with unidentifiable lab ID #'s will be made available to the public and all participants



Phases of Round Robin Program

- Phase I:
 - 10 labs (1 OEM, 6 independent labs, and 3 agencies' labs)
 - Three valid FTP+Evap runs (or FTP only)
 - Cost to participants: tests and ship out to next lab
 - Submits testing results
 - Two week duration per lab
- Phase II:
 - U.S. Region
 - Same as Phase I, except
 - 10 labs (3 OEMs, 4 independent labs, and 3 agencies' labs)
 - Participants are self-auditing
 - Measure GHG, if possible
 - Two week duration per lab
 - Asia Region
 - Same as U.S Region; except
 - Invitation sent to 5 OEMs and 2 independent labs
 - Participants TBD
 - Three week duration per lab



Phases of Round Robin Program (cont.)

- Phase III:
 - 10 labs (1 OEM, 6 independent labs, and 3 agencies' labs)
 - Three valid FTP+Evap runs (or FTP only)
 - Cost to participants: tests and ship out to next lab
 - Submits testing results
 - Two week duration per lab
- Phase IV:
 - U.S. Region
 - Same as Phase I, except
 - 13 labs (1 OEM, 9 independent labs, and 3 agencies' labs)
 - Asking self-auditing
 - Three valid FTP only.
 - Measure GHG, if possible
 - Two-Three weeks duration per lab
- Phase V:
 - European Region
 - Same as U.S Region; except
 - Invitation sent to 17 labs (4 OEMs and 10 independent labs, and 3 agencies labs)
 - Participants TBD
 - Three week duration per lab