**1- Package Content & Revision History**

**2013 Chevrolet Malibu 1LS Vehicle Tier 2 & 3 Fuels**

The following is a listing of the contents of this Test Data Package along with the suggested citation format and revision history of the material. Use of any NCAT documents listed below, included as part of the complete test data package, should reference the suggested citation provided. Note that SAE Papers included in the package should utilize the designated SAE CITATION format.

**SUGGESTED CITATION:**

*2013 Chevrolet Malibu 1LS Vehicle Tier 2 & 3 Fuels – Test Data Package*. Version 2018-09. Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2018.

**TEST PACKAGE CONTENTS:**

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| 1– Package Content & Revision History.docx | Brief overview document listing the contents, revision history & suggested citation format of the test data package |
| 2– Related NCAT Packages.docx | Listing of related and referenced Test Data and Full Engine Map Packages |
| 3– 2013 Chevrolet Malibu 1LS Vehicle Tier 2 & 3 Fuels – Test Report.docx | NCAT report outlining the test method and benchmarking results for mapping the engine used to support this testing |
| 4a– 2013 Chevrolet Malibu 1LS Vehicle - Acceleration and Deceleration Test Data.xlsx | Results from acceleration & deceleration testing performed with transmission in drive & neutral |
| 4b– 2013 Chevrolet Malibu 1LS Vehicle - TC Stall and Engine Spindown Test Data.xlsx | Data collected during the torque converter and engine spindown testing |
| 4c– 2013 Chevrolet Malibu 1LS Vehicle - Vehicle Cycle Test Data.xlsx | CAN and dynamometer data collected during cycle testing over standard vehicle test cycles |
| 4d– 2013 Chevrolet Malibu 1LS Vehicle - Vehicle WOT Test Data.xlsx | Data collected during dynamometer testing at constant vehicle speeds |
| 4e– 2013 Chevrolet Malibu 1LS Vehicle – NVFEL Laboratory Test Data.xlsx | Emission test results measured for each standard vehicle test cycle |
| 5a– NVFEL Fuel Analysis Report 23945.pdf | Analysis report of the fuel properties |
| 5b– NVFEL Fuel Analysis Report 24054.pdf | Analysis report of the fuel properties |
| 5c– NVFEL Fuel Analysis Report 24293.pdf | Analysis report of the fuel properties |
| 6a– SAE Paper 2015-01-1140.pdf | SAE paper outlining the test method and benchmarking test results for mapping the engine and transmission used to support this testing |
| 6b– SAE Paper 2015-01-1142.pdf | SAE paper outlining the development of a transmission shifting algorithm, based on this testing |

**REVISION HISTORY:**

Version 2018-09: Modified title page layout, added citation reference on both the title page and in the supporting documents section, added reference section, added revision history and modified supporting documents file names to align with updated naming convention

Version 2017-01: Initial release