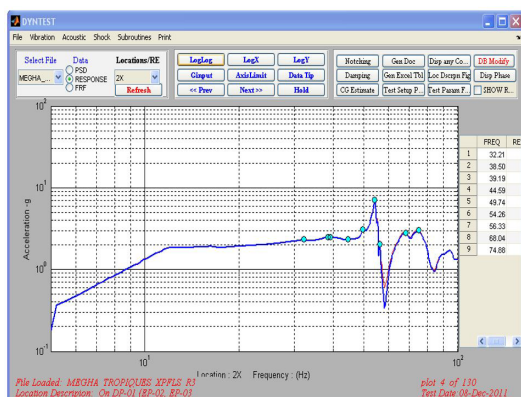


Dynamic Test Data Analysis and Visualisation Software (DYNTEST)

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has DYNTEST software modules for vibration, acoustic and shock test data analysis, handling and visualization.



Salient Features

- ✦ Standalone software for sine vibration, acoustic and shock test data analysis, test estimations and visualisation.
- ✦ Ease of handling and helps in reducing the test campaign duration with automated test data calculations, test predictions and report generation.

Description

- ✦ The GUI based menu driven software was coded in MATLAB environment and windows standalone application was generated by MATLAB's deploy tool.
- ✦ The various modules available for each class of test and incorporating automated test data analysis features. The main modules are:
 - The input file translator: Reading of test data generated by different test system format or from standard test data handling formats. Data compression in DYNTEST specific format for further processing is accomplished by this module
 - Vibration test module: The vibration test module can render a variety of plots from the vibration data obtained from many systems like, LMS, MP, Spectral dynamics etc. Computations of damping, notching, CG response estimation,

response predication etc. are the major features of the module.

- Acoustic test module: Computations of PSD, RMS, response predication, extrapolations etc. are the major features of the module
- Shock test module: Computations of SRS, SRS TF, SRS response predication, extrapolations etc. are the major features of the module.

Technology Transfer

URSC/ISRO offers to transfer this technology Development of Dynamic Test Data Analysis and visualisation software (DYNTTEST) developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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