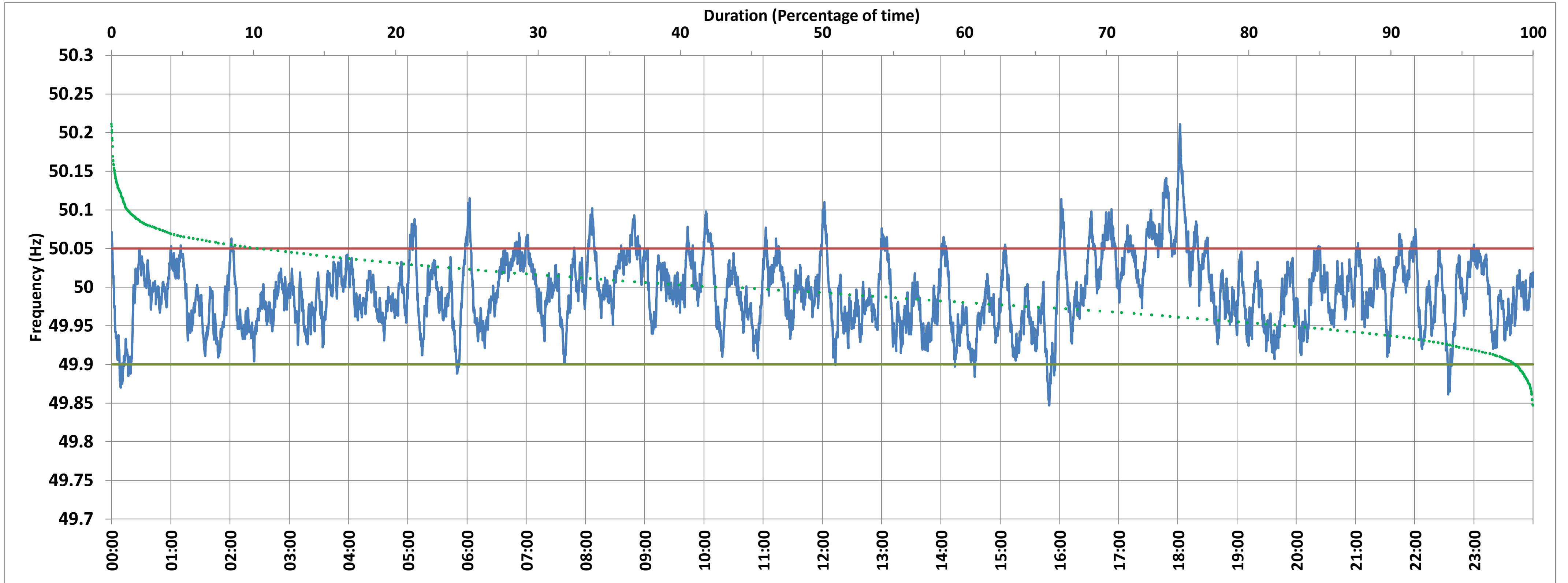




VIJAYAWADA:Frequency

National Grid Frequency Profile for 29-Apr-2018



|       |        |        |           |           |           |           |           |             |           |             |            |       |        |        |       |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50   | >50.03 | >50.05 | >50.2 |
| 0.00  | 1.23   | 30.47  | 0.00      | 1.23      | 54.39     | 43.22     | 1.11      | 88.53       | 99.94     | 48.98       | 9.59       | 42.49 | 20.54  | 10.24  | 0.06  |

|                     |        |                             |       |                      |       |         |       |
|---------------------|--------|-----------------------------|-------|----------------------|-------|---------|-------|
| Average Frequency : | 49.994 | Frequency Variation Index : | 0.021 | Standard Deviation : | 0.045 | Mileage | 45.86 |
|---------------------|--------|-----------------------------|-------|----------------------|-------|---------|-------|

|                         |        |          |
|-------------------------|--------|----------|
| Instantaneous Frequency |        |          |
| Max                     | 50.211 | 18:02:10 |
| Min                     | 49.847 | 15:49:40 |

|                             |        |          |
|-----------------------------|--------|----------|
| 15 minute Average Frequency |        |          |
| Max                         | 50.094 | 18:15:00 |
| Min                         | 49.921 | 16:00:00 |

|                                  |     |
|----------------------------------|-----|
| No. of excursions above 50.03 Hz | 113 |
| No. of excursions below 49.97 Hz | 149 |
| No. of excursions above 50.00 Hz | 142 |
| No. of excursions below 50.00 Hz | 130 |

|                               |       |
|-------------------------------|-------|
| % time <49.95                 | 16.79 |
| % time between 49.95 to 50.05 | 72.96 |

|   |         |  |         |
|---|---------|--|---------|
| Average time freq remains below 49.97 per excursion | 0:02:57 | Average time frequency remains above 50.03 per excursion | 0:02:37 |
|---|---------|--|---------|