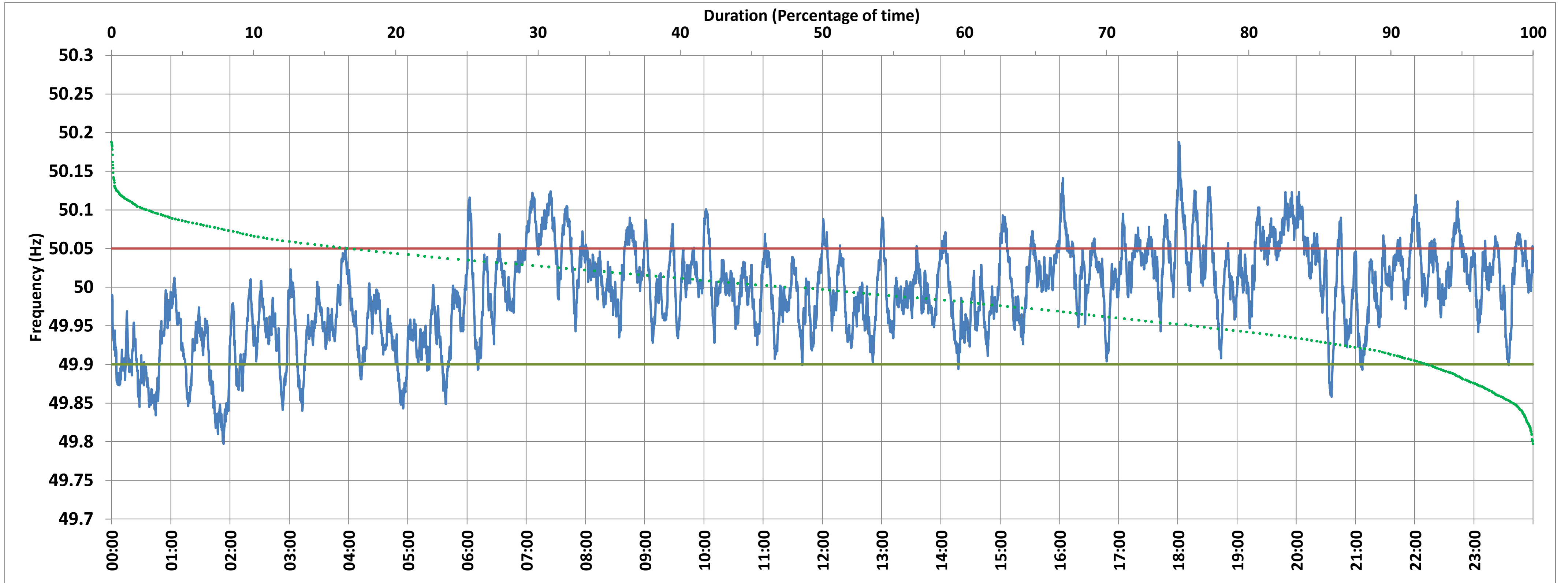




VIJAYAWADA:Frequency

National Grid Frequency Profile for 1-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	7.34	33.47	0.01	7.33	43.89	46.11	2.66	76.11	100.00	38.07	14.64	47.38	28.46	16.55	0.00

Average Frequency :	49.993	Frequency Variation Index :	0.037	Standard Deviation :	0.060	Mileage	46.33
---------------------	--------	-----------------------------	-------	----------------------	-------	---------	-------

Instantaneous Frequency		
Max	50.188	18:01:00
Min	49.797	1:53:20

15 minute Average Frequency		
Max	50.091	20:00:00
Min	49.835	2:00:00

No. of excursions above 50.03 Hz	130
No. of excursions below 49.97 Hz	102
No. of excursions above 50.00 Hz	110
No. of excursions below 50.00 Hz	113

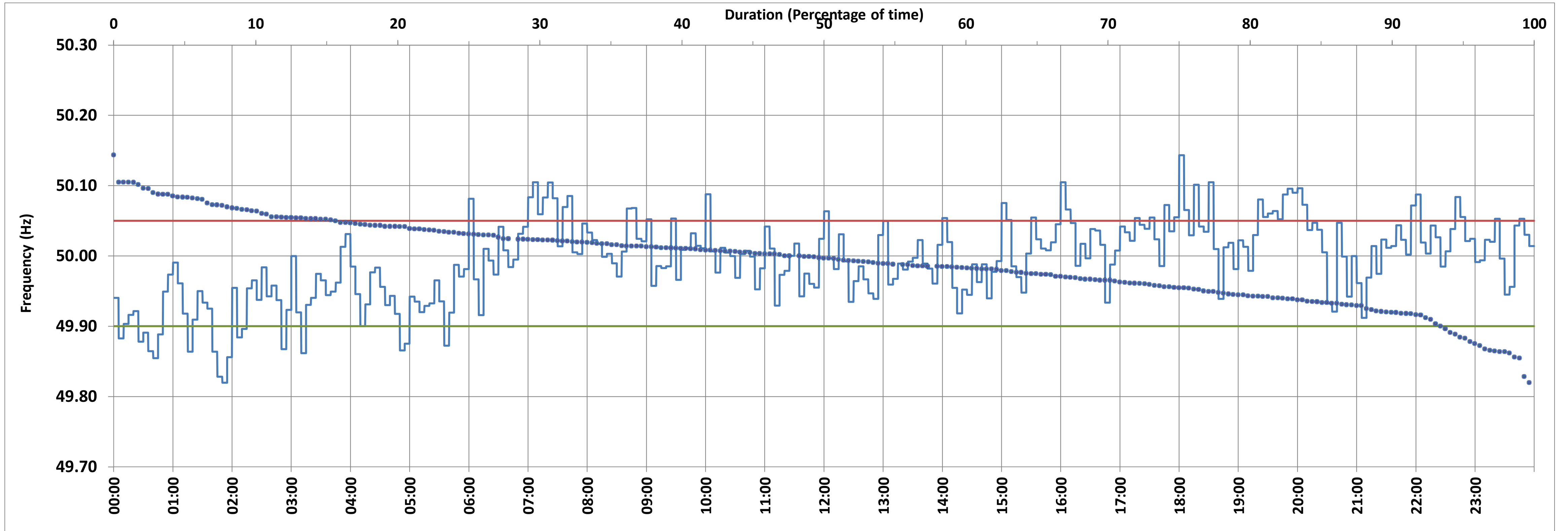
% time <49.95	23.61
% time between 49.95 to 50.05	59.84

Average time freq remains below 49.97 per excursion	0:04:44	Average time frequency remains above 50.03 per excursion	0:03:09
---	---------	--	---------



VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 1-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	6.25	32.99	0.00	6.25	46.18	45.49	2.08	78.13	100.00	40.97	13.54	47.57	26.04	15.63	0.00

Average Frequency :	49.993
---------------------	--------

Mileage	9.8859
---------	--------

Instantaneous Frequency		
Max	50.188	18:01:00
Min	49.797	1:53:20

Based on 5 minute Average Frequency		
Max	50.143	18:05:00
Min	49.820	2:00:00

No. of excursions above 50.03 Hz	32
No. of excursions below 49.97 Hz	29
No. of excursions above 50.00 Hz	33
No. of excursions below 50.00 Hz	33

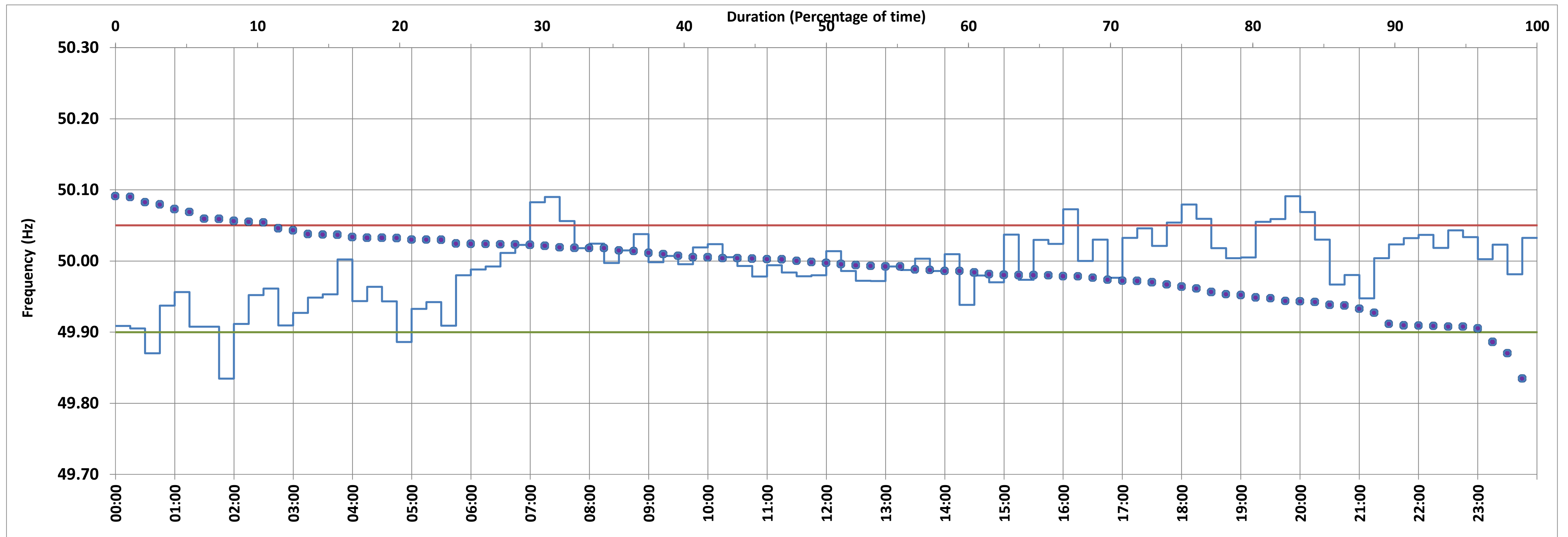
% time <49.95	22.92
% time between 49.95 to 50.05	61.46

NOTE: All calculations except Instantaneous Max/Min based on 5 minute average frequency



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 1-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	3.13	27.08	0.00	3.13	47.92	48.96	0.00	85.42	100.00	51.04	11.46	48.96	21.88	11.46	0.00	

Average Frequency :	49.993
---------------------	--------

Mileage	2.7052
---------	--------

Instantaneous Frequency		
Max	50.188	18:01:00
Min	49.797	1:53:20

Based on 15 minute Average Frequency			
Max	50.091	20:00:00	
Min	49.835	2:00:00	

No. of excursions above 50.03 Hz	11
No. of excursions below 49.97 Hz	6
No. of excursions above 50.00 Hz	13
No. of excursions below 50.00 Hz	13

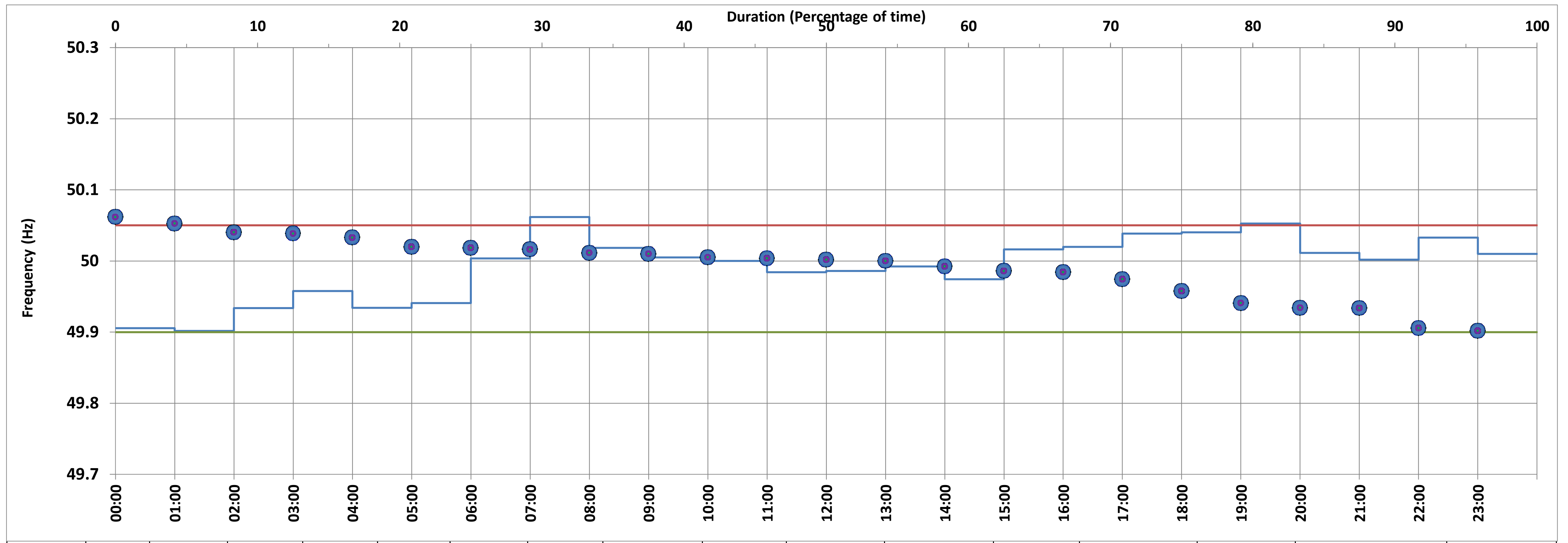
% time <49.95	19.79
% time between 49.95 to 50.05	68.75

NOTE: All calculations except Instantaneous Max/Min based on 15 minute average frequency



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 1-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	0.00	25.00	0.00	0.00	45.83	54.17	0.00	91.67	100.00	54.17	8.33	54.17	20.83	8.33	0.00	

Average Frequency :	49.993
---------------------	--------

Mileage	0.4976
---------	--------

Instantaneous Frequency		
Max	50.188	18:01:00
Min	49.797	1:53:20

Based on an hour Average Frequency			
Max	50.062	8:00:00	
Min	49.902	2:00:00	

No. of excursions above 50.03 Hz	3
No. of excursions below 49.97 Hz	1
No. of excursions above 50.00 Hz	2
No. of excursions below 50.00 Hz	2

% time <49.95	20.83
% time between 49.95 to 50.05	70.83

NOTE: All calculations except Instantaneous Max/Min based on an hour average frequency