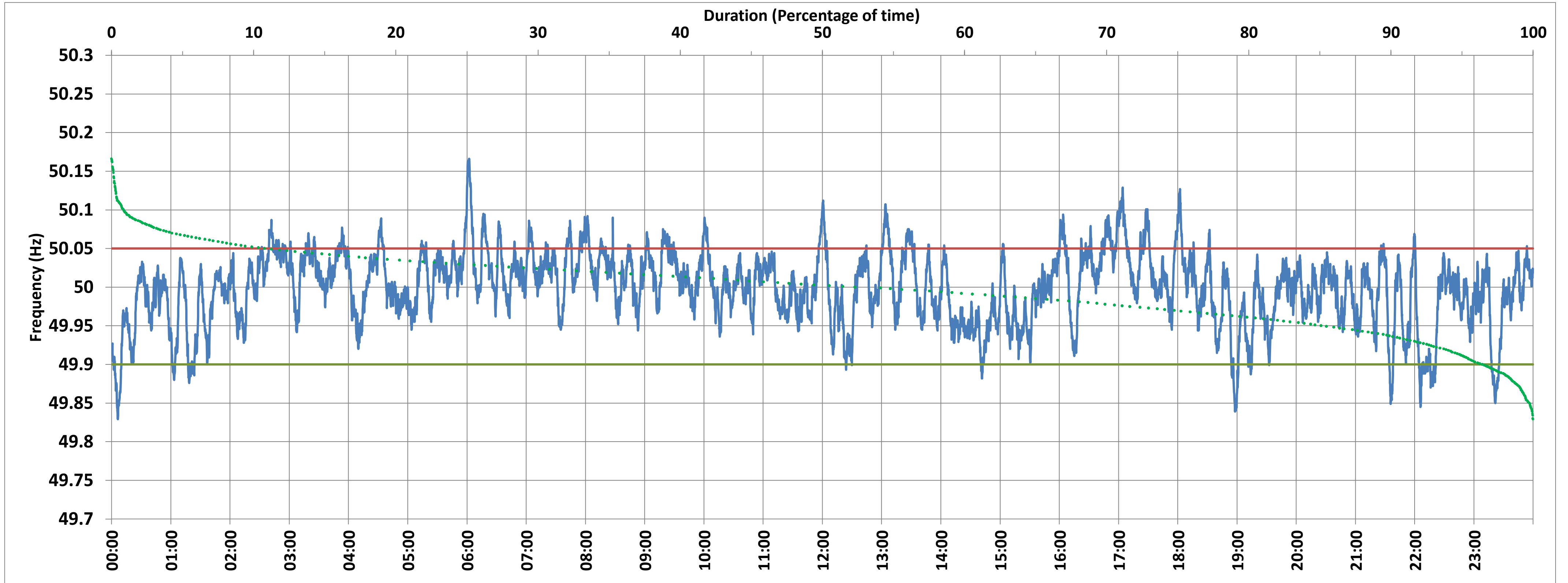




VIJAYAWADA:Frequency

National Grid Frequency Profile for 8-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	3.43	24.78	0.00	3.43	42.48	53.22	0.88	85.81	100.00	50.79	10.39	52.29	24.43	10.76	0.00

Average Frequency :	49.998	Frequency Variation Index :	0.022	Standard Deviation :	0.047	Mileage	46.92
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Instantaneous Frequency		
Max	50.166	6:02:10
Min	49.829	0:06:20

15 minute Average Frequency		
Max	50.064	17:15:00
Min	49.904	0:15:00

No. of excursions above 50.03 Hz	167
No. of excursions below 49.97 Hz	129
No. of excursions above 50.00 Hz	143
No. of excursions below 50.00 Hz	146

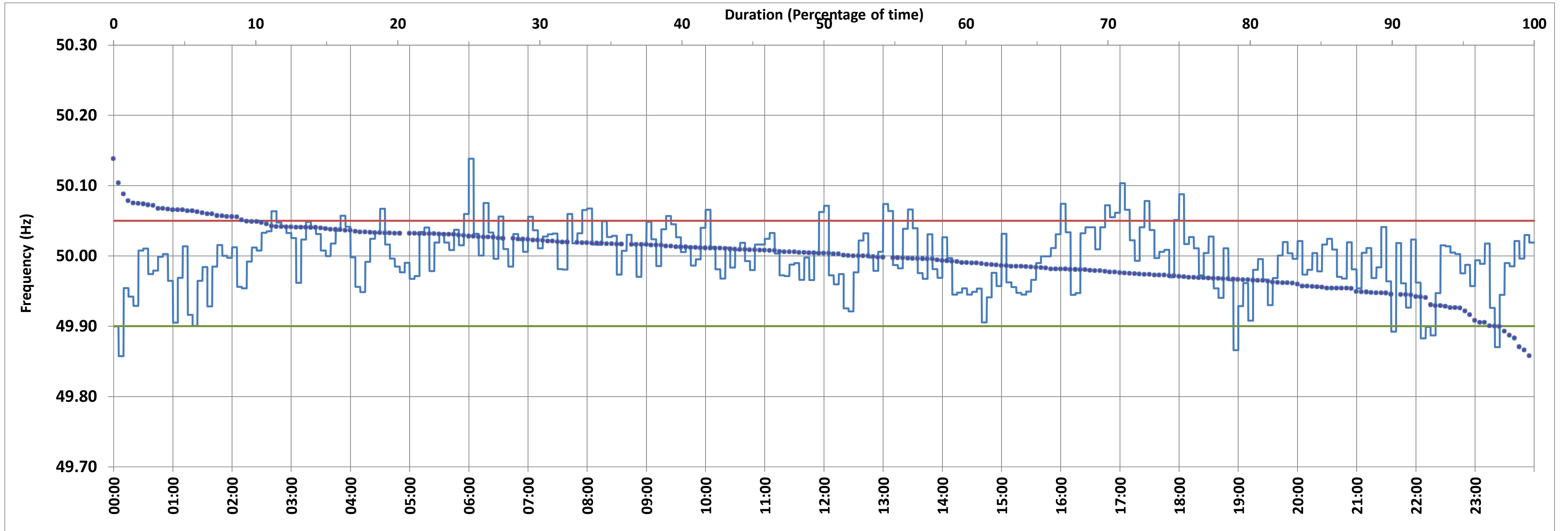
% time <49.95	14.54
% time between 49.95 to 50.05	74.70

Average time freq remains below 49.97 per excursion	0:02:46	Average time frequency remains above 50.03 per excursion	0:02:06
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VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 8-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	2.78	24.31	0.00	2.78	44.79	51.74	0.69	87.85	100.00	51.39	8.68	52.43	24.31	9.38	0.00

Average Frequency :	49.998
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Mileage	9.1451
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Instantaneous Frequency		
Max	50.166	6:02:10
Min	49.829	0:06:20

Based on 5 minute Average Frequency		
Max	50.138	6:05:00
Min	49.857	0:15:00

No. of excursions above 50.03 Hz	33
No. of excursions below 49.97 Hz	31
No. of excursions above 50.00 Hz	48
No. of excursions below 50.00 Hz	48

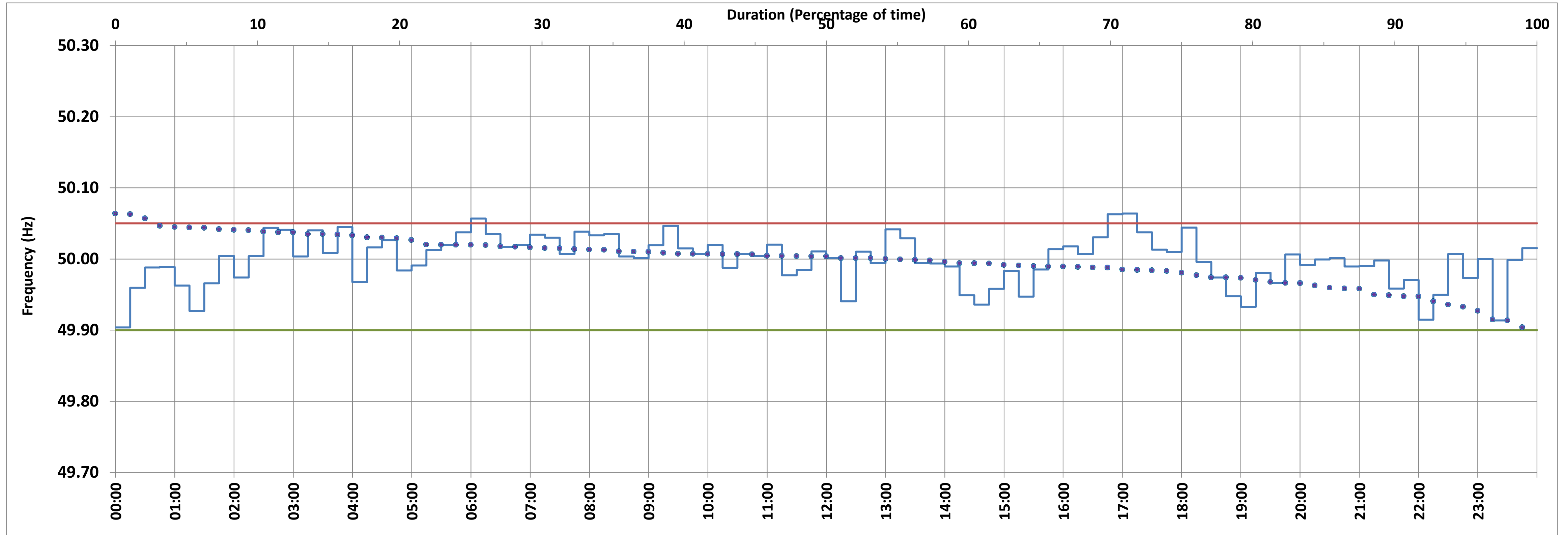
% time <49.95	12.50
% time between 49.95 to 50.05	78.13

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



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 8-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	18.75	0.00	0.00	44.79	55.21	0.00	96.88	100.00	61.46	3.13	55.21	19.79	3.13	0.00	

Average Frequency :	49.998
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Mileage	2.4467
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Instantaneous Frequency		
Max	50.166	6:02:10
Min	49.829	0:06:20

Based on 15 minute Average Frequency			
Max	50.064	17:15:00	
Min	49.904	0:15:00	

No. of excursions above 50.03 Hz	10
No. of excursions below 49.97 Hz	11
No. of excursions above 50.00 Hz	14
No. of excursions below 50.00 Hz	14

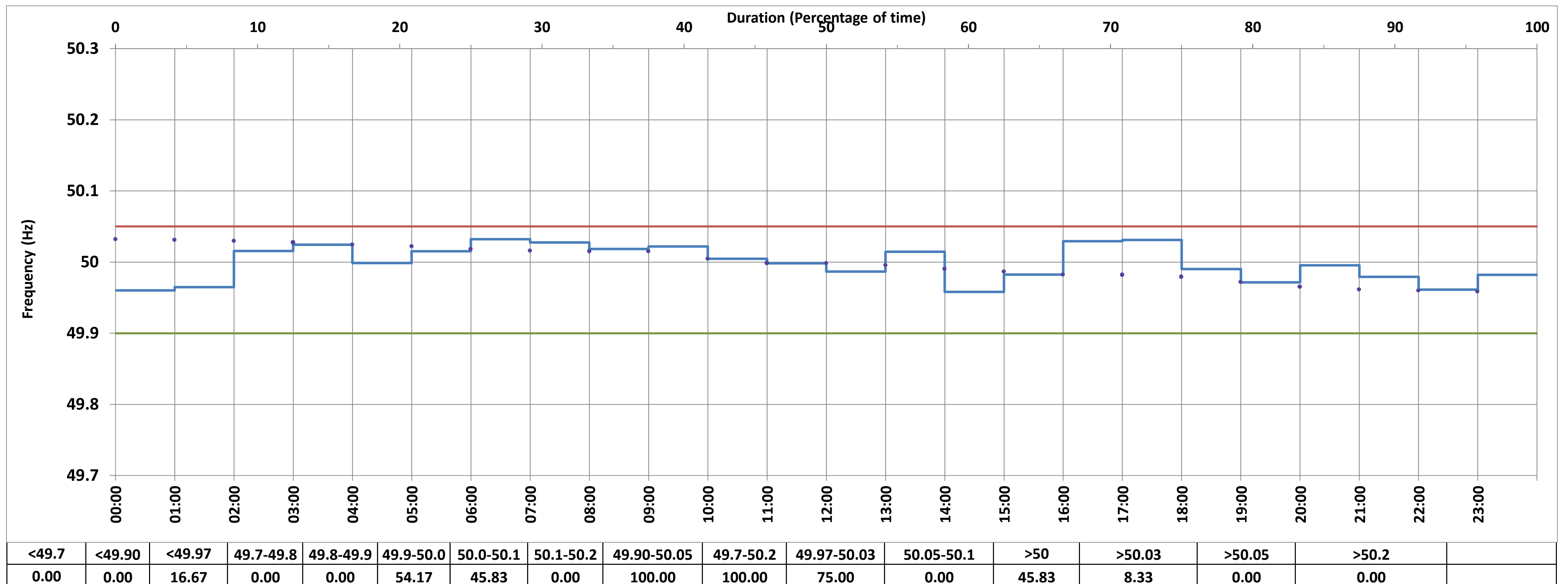
% time <49.95	11.46
% time between 49.95 to 50.05	85.42

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



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 8-Apr-2018



Average Frequency : 49.998

Mileage 0.4724

Instantaneous Frequency		
Max	50.166	6:02:10
Min	49.829	0:06:20

Based on an hour Average Frequency			
Max	50.032	7:00:00	
Min	49.958	15:00:00	

No. of excursions above 50.03 Hz	2
No. of excursions below 49.97 Hz	3
No. of excursions above 50.00 Hz	4
No. of excursions below 50.00 Hz	5

% time <49.95	0.00
% time between 49.95 to 50.05	100.00

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