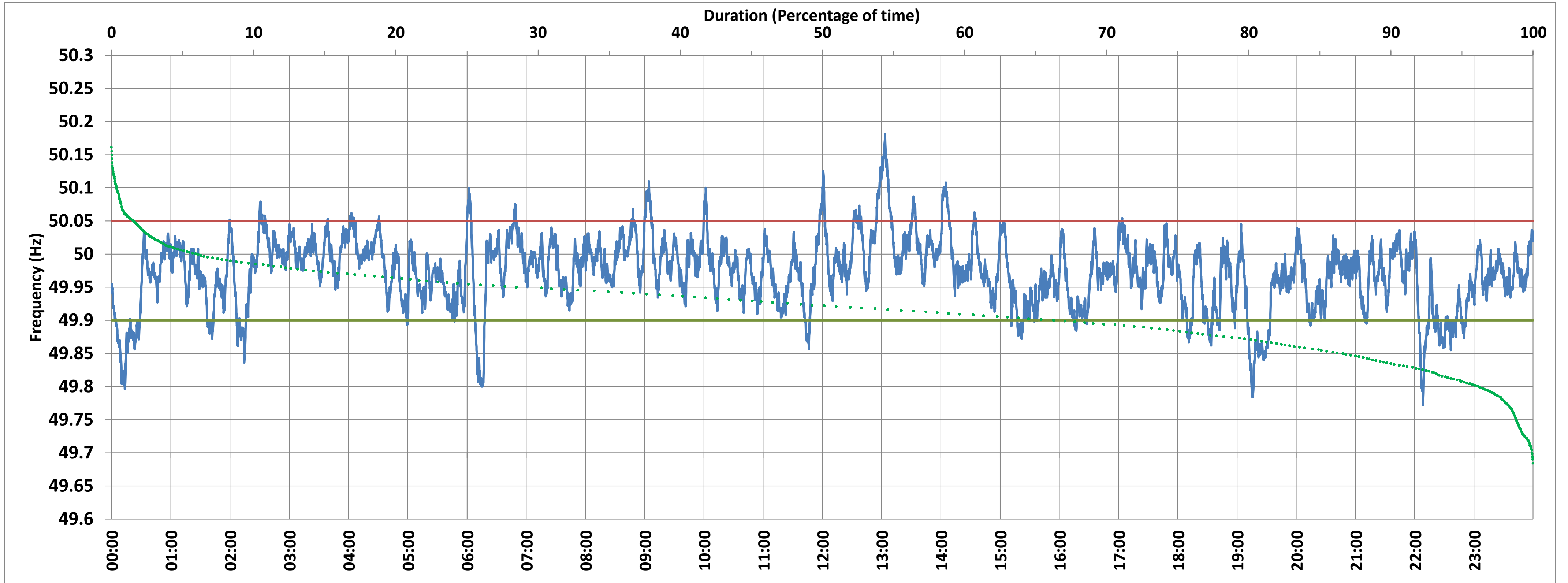




VIJAYAWADA:Frequency

National Grid Frequency Profile for 24-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	9.42	43.60	0.25	9.17	60.34	29.40	0.84	86.15	100.00	46.28	3.88	28.47	10.12	4.43	0.00

Average Frequency :	49.972	Frequency Variation Index :	0.035	Standard Deviation :	0.052	Mileage	43.99
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Instantaneous Frequency		
Max	50.181	13:03:30
Min	49.772	22:08:20

15 minute Average Frequency		
Max	50.082	13:15:00
Min	49.848	19:30:00

No. of excursions above 50.03 Hz	78
No. of excursions below 49.97 Hz	150
No. of excursions above 50.00 Hz	125
No. of excursions below 50.00 Hz	127

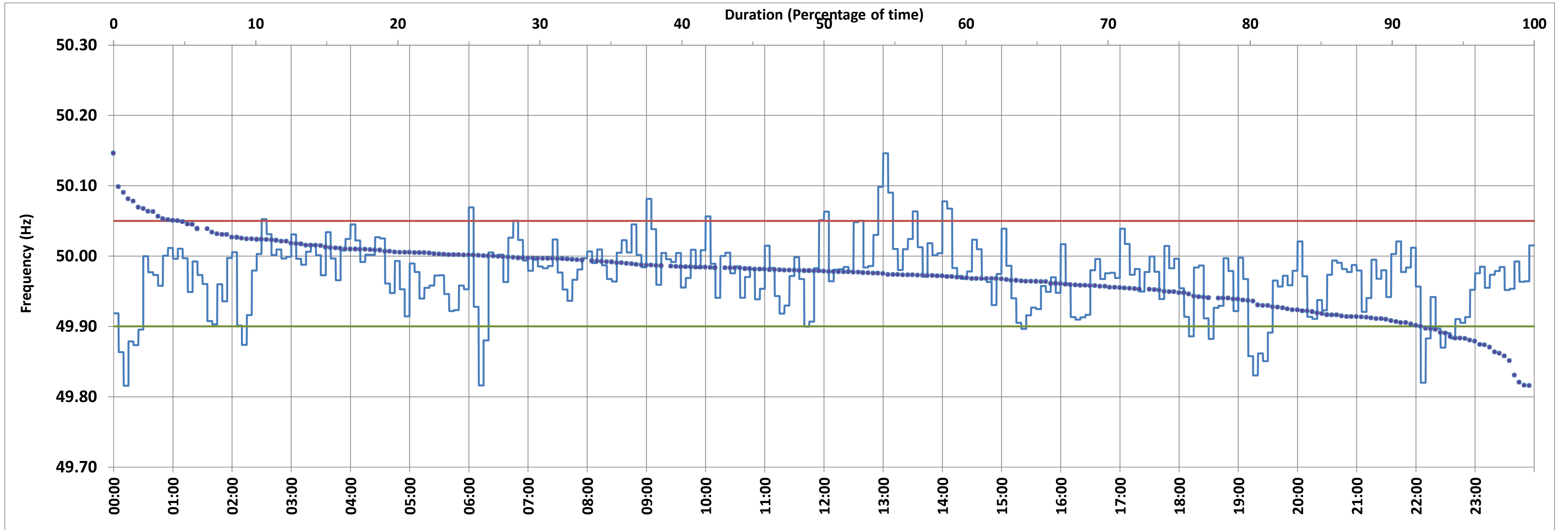
% time <49.95	28.08
% time between 49.95 to 50.05	67.49

Average time freq remains below 49.97 per excursion	0:04:11	Average time frequency remains above 50.03 per excursion	0:01:52
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VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 24-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	7.99	40.63	0.00	7.99	65.28	26.39	0.35	87.15	100.00	51.04	4.51	26.74	8.33	4.86	0.00

Average Frequency :	49.972
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Mileage	9.2631
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Instantaneous Frequency		
Max	50.181	13:03:30
Min	49.772	22:08:20

Based on 5 minute Average Frequency		
Max	50.146	13:05:00
Min	49.816	0:20:00

No. of excursions above 50.03 Hz	16
No. of excursions below 49.97 Hz	43
No. of excursions above 50.00 Hz	37
No. of excursions below 50.00 Hz	37

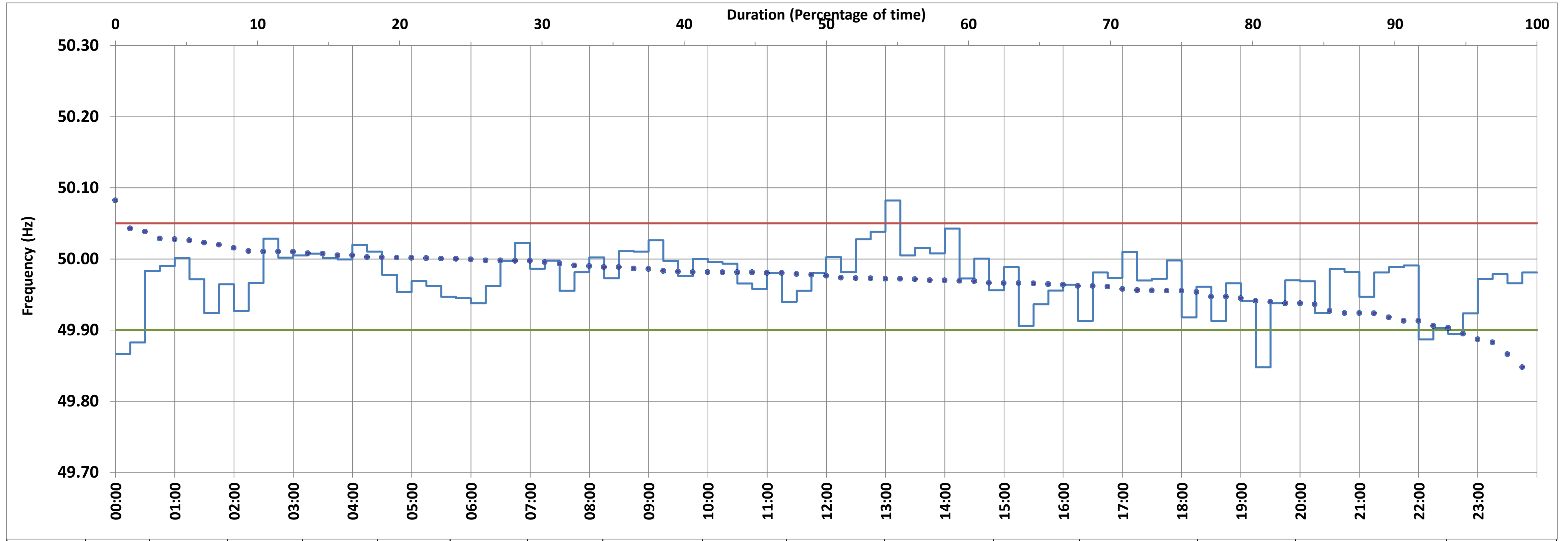
% time <49.95	26.04
% time between 49.95 to 50.05	69.10

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



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 24-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	5.21	42.71	0.00	5.21	69.79	25.00	0.00	93.75	100.00	54.17	1.04	25.00	3.13	1.04	0.00	

Average Frequency :	49.972
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Mileage	2.8095
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Instantaneous Frequency		
Max	50.181	13:03:30
Min	49.772	22:08:20

Based on 15 minute Average Frequency			
Max	50.082	13:15:00	
Min	49.848	19:30:00	

No. of excursions above 50.03 Hz	2
No. of excursions below 49.97 Hz	13
No. of excursions above 50.00 Hz	11
No. of excursions below 50.00 Hz	12

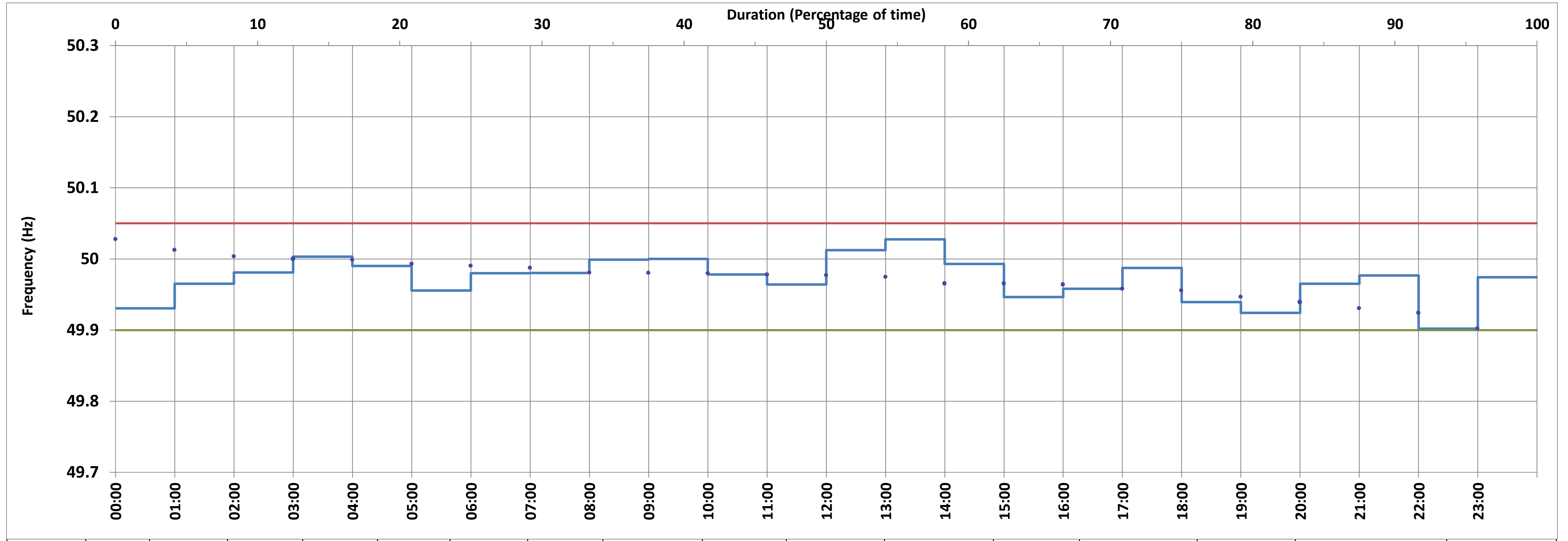
% time <49.95	22.92
% time between 49.95 to 50.05	76.04

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



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 24-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	41.67	0.00	0.00	87.50	12.50	0.00	100.00	100.00	58.33	0.00	12.50	0.00	0.00	0.00	

Average Frequency :	49.972
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Mileage	0.6497
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Instantaneous Frequency		
Max	50.181	13:03:30
Min	49.772	22:08:20

Based on an hour Average Frequency			
Max	50.028	14:00:00	
Min	49.902	23:00:00	

No. of excursions above 50.03 Hz	0
No. of excursions below 49.97 Hz	6
No. of excursions above 50.00 Hz	2
No. of excursions below 50.00 Hz	3

% time <49.95	20.83
% time between 49.95 to 50.05	79.17

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