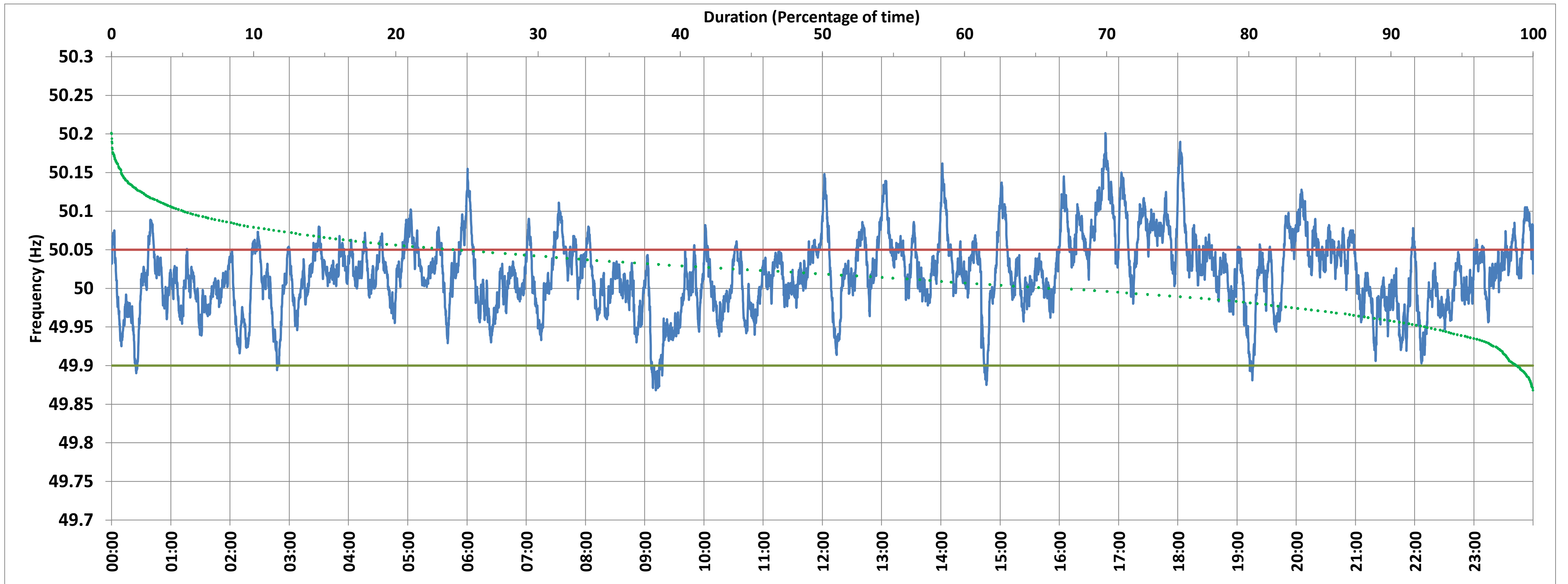




VIJAYAWADA:Frequency

National Grid Frequency Profile for 2-May-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	1.09	14.19	0.00	1.09	31.39	62.35	5.15	74.88	99.98	46.56	19.59	65.93	39.25	24.03	0.02

Average Frequency :	50.019	Frequency Variation Index :	0.027	Standard Deviation :	0.048	Mileage	43.83
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Instantaneous Frequency		
Max	50.201	16:46:40
Min	49.868	9:11:20

15 minute Average Frequency		
Max	50.113	17:00:00
Min	49.935	9:30:00

No. of excursions above 50.03 Hz	161
No. of excursions below 49.97 Hz	81
No. of excursions above 50.00 Hz	138
No. of excursions below 50.00 Hz	143

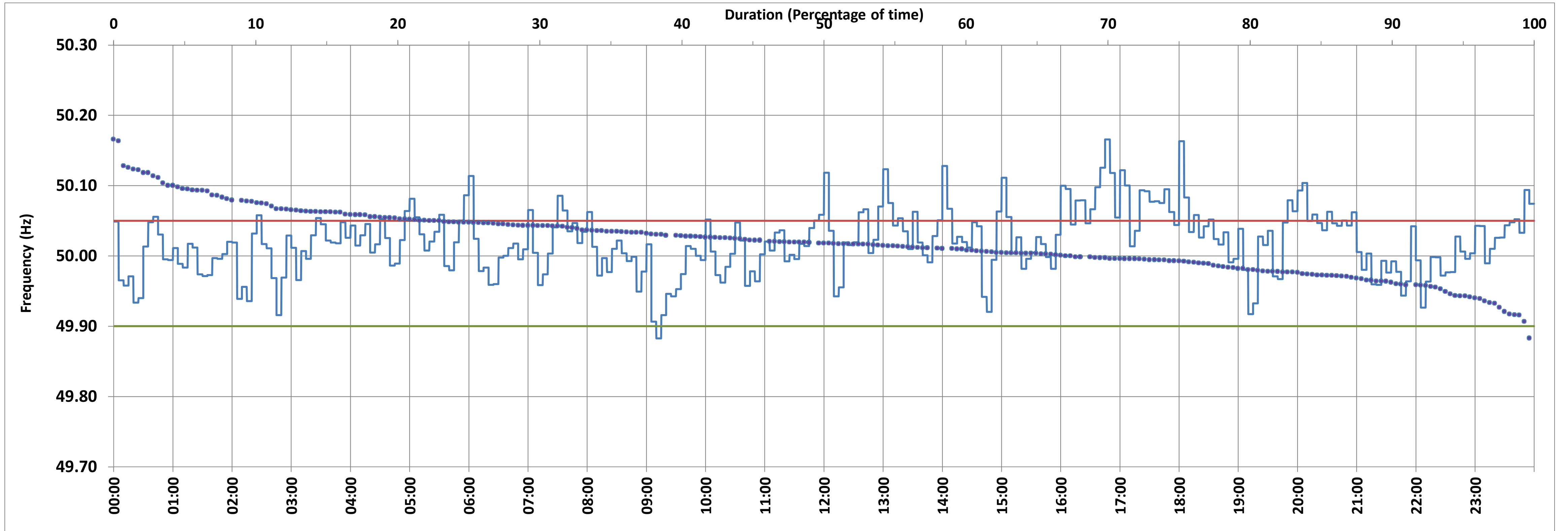
% time <49.95	7.44
% time between 49.95 to 50.05	68.53

Average time freq remains below 49.97 per excursion	0:02:31	Average time frequency remains above 50.03 per excursion	0:03:31
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VIJAYAWADA:Frequency

5 Min. Average Frequency Profile for 2-May-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	0.35	12.85	0.00	0.35	31.94	63.19	4.51	76.74	100.00	48.26	18.75	67.71	38.89	22.92	0.00

Average Frequency :	50.019
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Mileage	8.4008
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Instantaneous Frequency		
Max	50.201	16:46:40
Min	49.868	9:11:20

Based on 5 minute Average Frequency		
Max	50.166	16:50:00
Min	49.883	9:20:00

No. of excursions above 50.03 Hz	34
No. of excursions below 49.97 Hz	19
No. of excursions above 50.00 Hz	35
No. of excursions below 50.00 Hz	34

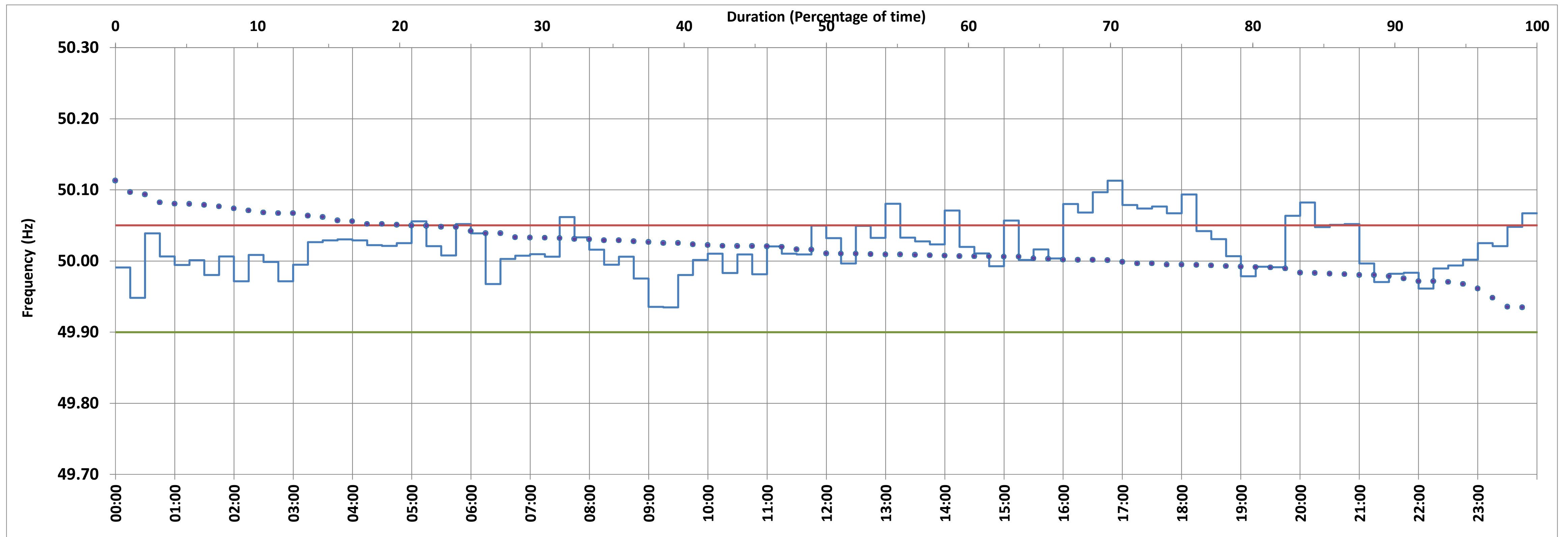
% time <49.95	6.25
% time between 49.95 to 50.05	70.83

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



VIJAYAWADA:Frequency

15 Min. Average Frequency Profile for 2-May-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	5.21	0.00	0.00	29.17	69.79	1.04	79.17	100.00	60.42	19.79	70.83	34.38	20.83	0.00	

Average Frequency :	50.019
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Mileage	2.3193
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Instantaneous Frequency		
Max	50.201	16:46:40
Min	49.868	9:11:20

Based on 15 minute Average Frequency			
Max	50.113	17:00:00	
Min	49.935	9:30:00	

No. of excursions above 50.03 Hz	12
No. of excursions below 49.97 Hz	4
No. of excursions above 50.00 Hz	14
No. of excursions below 50.00 Hz	14

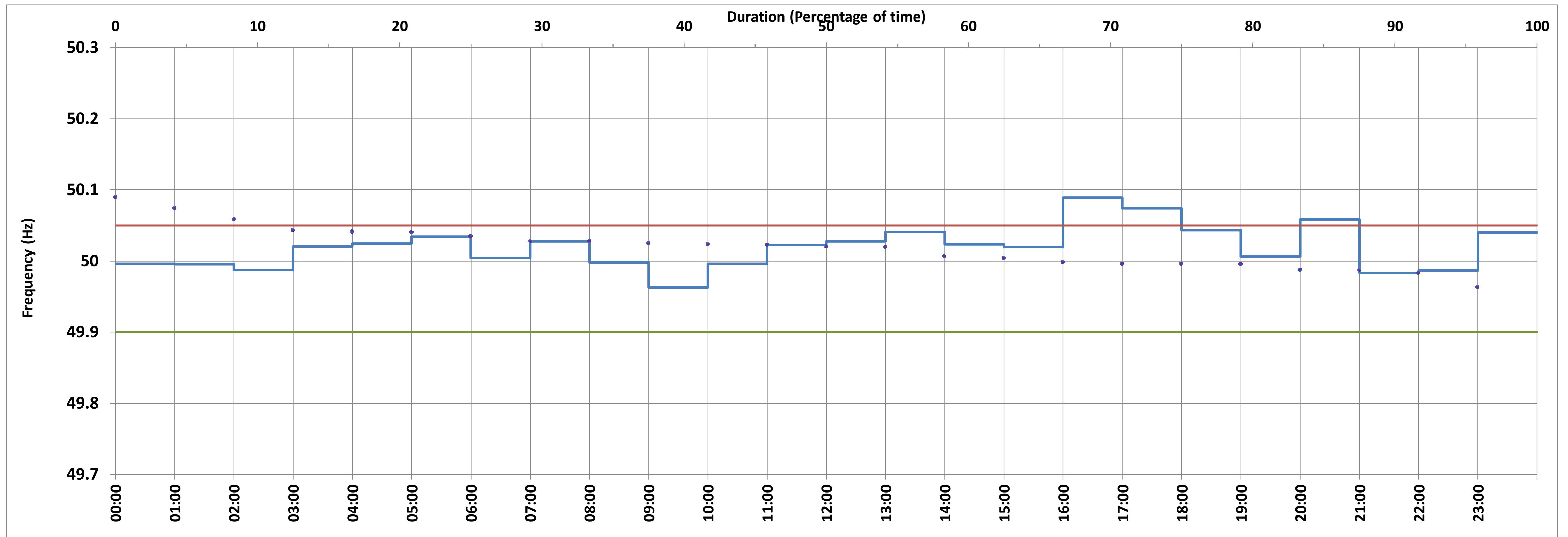
% time <49.95	3.13
% time between 49.95 to 50.05	76.04

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



VIJAYAWADA:Frequency

Hourly Average Frequency Profile for 2-May-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	4.17	0.00	0.00	33.33	66.67	0.00	87.50	100.00	66.67	12.50	66.67	29.17	12.50	0.00	

Average Frequency :	50.019
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Mileage	0.6100
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Instantaneous Frequency		
Max	50.201	16:46:40
Min	49.868	9:11:20

Based on an hour Average Frequency			
Max	50.089	17:00:00	
Min	49.963	10:00:00	

No. of excursions above 50.03 Hz	5
No. of excursions below 49.97 Hz	1
No. of excursions above 50.00 Hz	3
No. of excursions below 50.00 Hz	3

% time <49.95	0.00
% time between 49.95 to 50.05	87.50

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