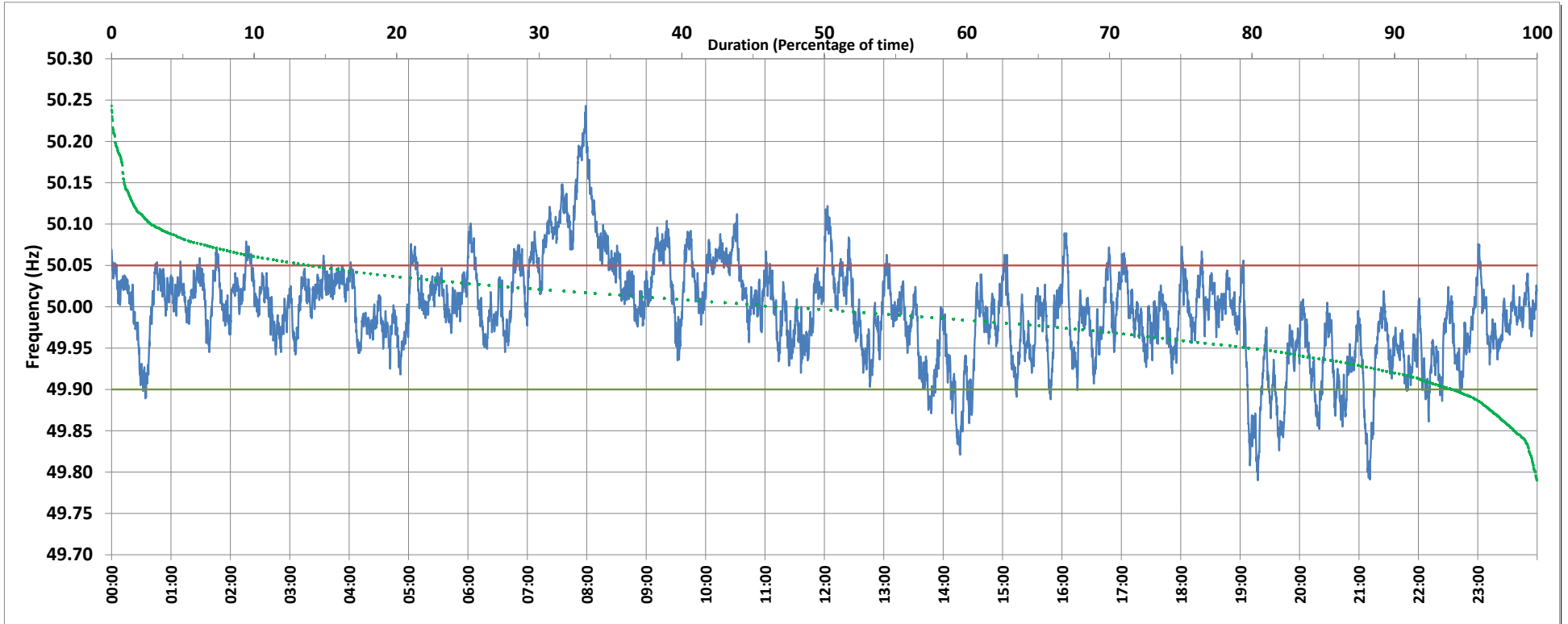


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 12-Jun-2018 (Tuesday)



<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	<49.95	49.95-50.05	49.90-49.95
0.0	5.8	30.1	0.1	5.7	46.1	45.3	2.6	80.4	99.8	46.0	11.4	46.6	23.9	13.8	0.2	19.6	66.6	13.9

Average Frequency : 49.994	Frequency Variation Index : 0.035	Standard Deviation : 0.058	Mileage: 48.5	FDI: 19.6
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Instantaneous Frequency		
Max	50.243	7:58:50
Min	49.790	19:17:50

15 minute Average Frequency		
Max	50.168	8:00:00
Min	49.872	21:15:00

No. of excursions	
above 50.03 Hz	130
below 49.97 Hz	131
above 50.00 Hz	136
below 50.00 Hz	146

Average time freq per excursion remains	
below 49.97	0:03:18
above 50.03	0:02:39

No. of hours freq outside 49.9-50.05 Hz	4:42:10
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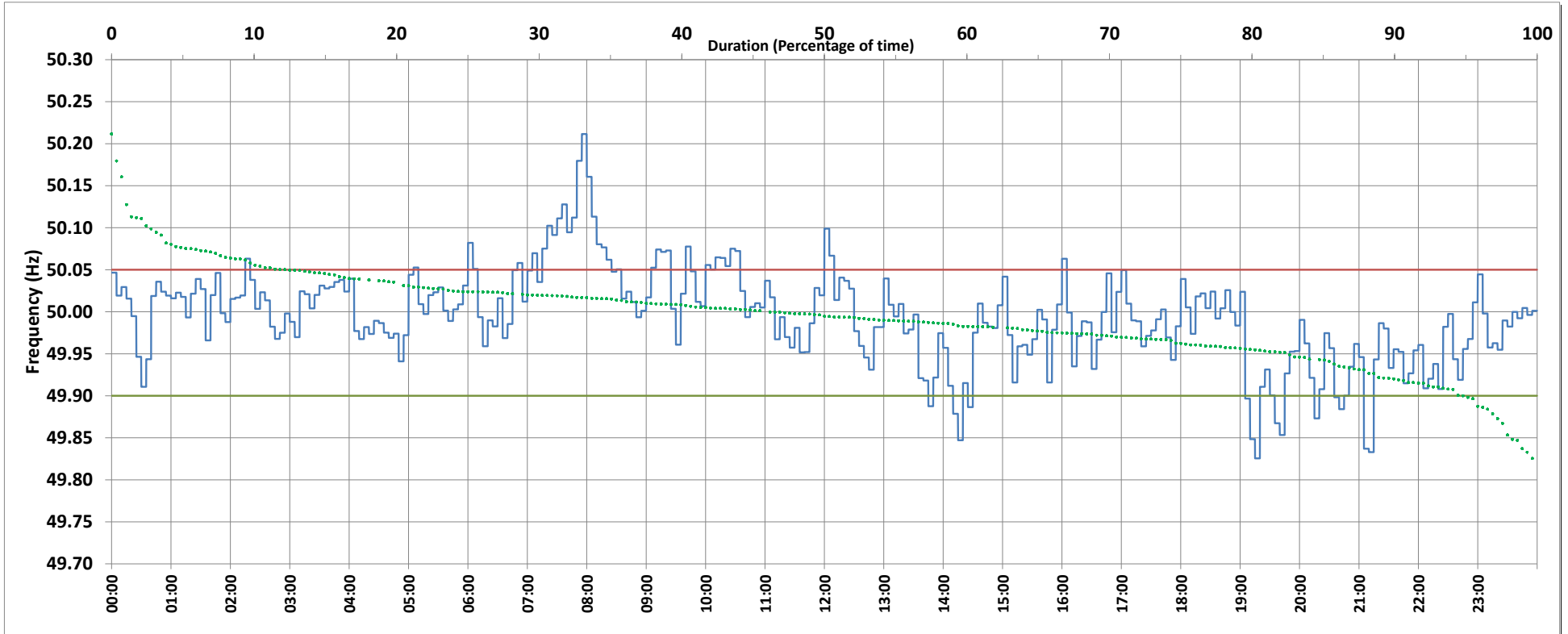
Source : BALLIA:Frequency 10 Sec. (8640 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



5 Min. Average Frequency profile for 12-Jun-2018 (Tuesday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	4.86	29.51	0.00	4.86	48.96	43.40	2.43	82.64	99.65	49.31	9.72	46.18	21.18	12.50	0.35	17.4	70.1	12.5

Average Frequency : 49.994	Frequency Variation Index : 0.032	Standard Deviation : 0.056	Mileage: 8.0	FDI: 17.4
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Instantaneous Frequency		
Max	50.243	7:58:50
Min	49.790	19:17:50

5 minute Average Frequency		
Max	50.212	8:00:00
Min	49.826	19:25:00

No. of excursions	
above 50.03 Hz	25
below 49.97 Hz	28
above 50.00 Hz	31
below 50.00 Hz	30

Average time freq per excursion remains	
below 49.97	0:15:11
above 50.03	0:12:12

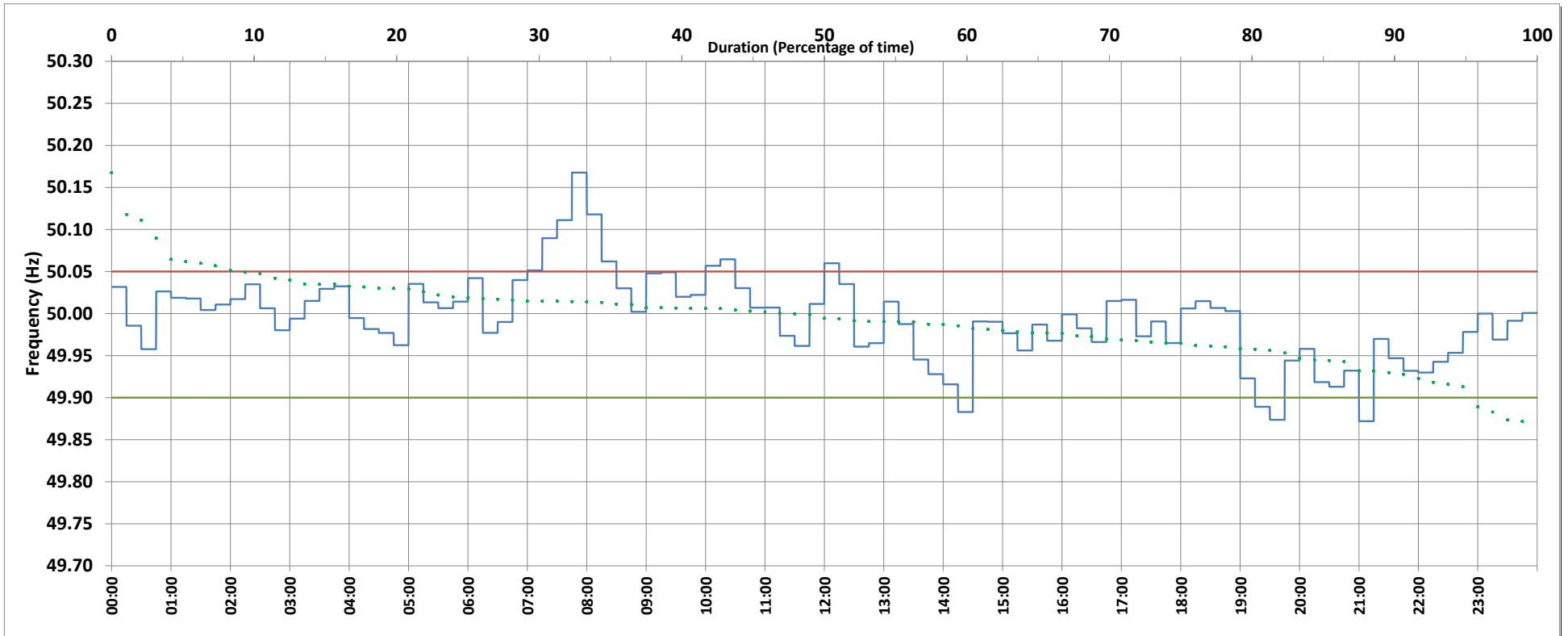
Source : BALLIA:Frequency 5 Min. (288 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



15 Min. Average Frequency profile for 12-Jun-2018 (Tuesday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	4.17	30.21	0.00	4.17	47.92	44.79	3.13	86.46	100.00	48.96	6.25	47.92	20.83	9.38	0.00	16.7	74.0	12.5

Average Frequency : 49.994	Frequency Variation Index : 0.025	Standard Deviation : 0.050	Mileage: 2.6	FDI: 13.5
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Instantaneous Frequency		
Max	50.243	7:58:50
Min	49.790	19:17:50

15 minute Average Frequency		
Max	50.168	8:00:00
Min	49.872	21:15:00

No. of excursions	
above 50.03 Hz	9
below 49.97 Hz	11
above 50.00 Hz	10
below 50.00 Hz	9

Average time freq per excursion remains	
below 49.97	0:39:33
above 50.03	0:33:20

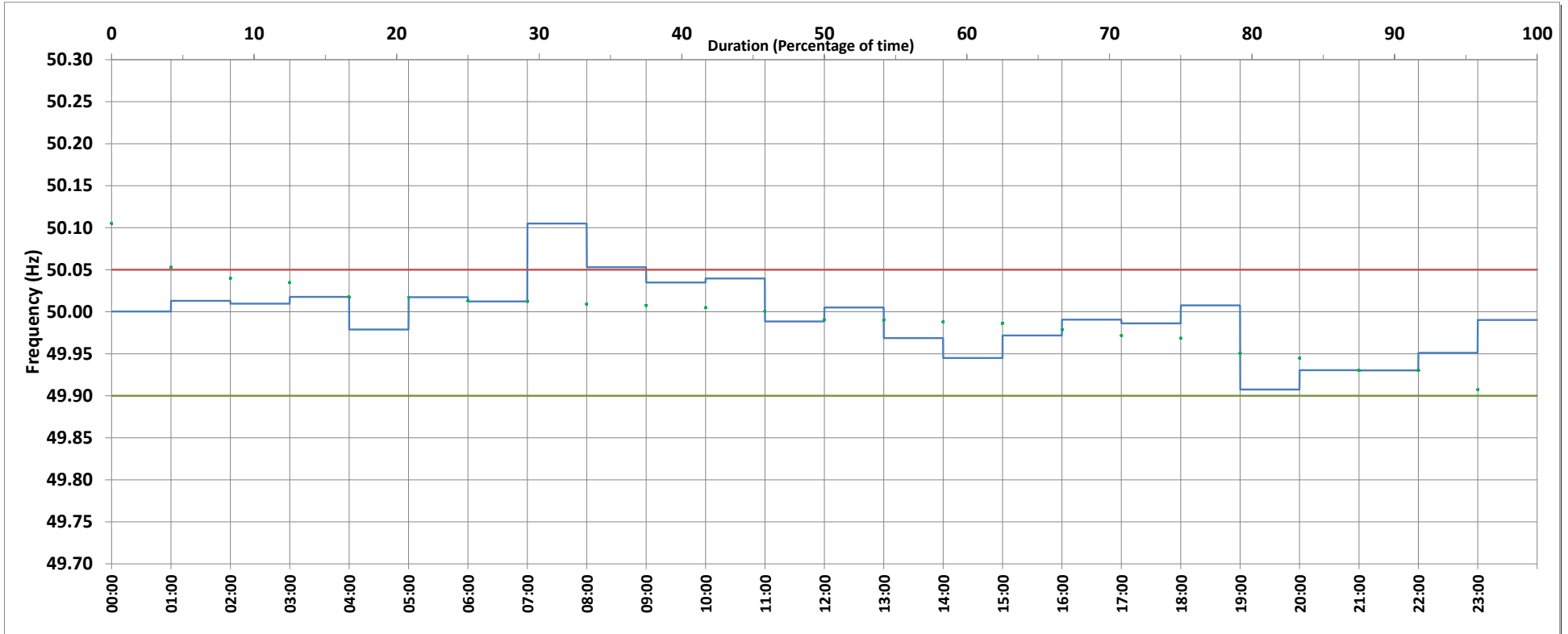
Source : BALLIA:Frequency 15 Min. (96 samples)

POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Hourly Average Frequency profile for 12-Jun-2018 (Tuesday)



<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	<49.95	49.95-50.05	49.90-49.95
0.00	0.00	25.00	0.00	0.00	50.00	45.83	4.17	91.67	100.00	58.33	4.17	50.00	16.67	8.33	0.00	16.7	75.0	16.7

Average Frequency : 49.994	Frequency Variation Index : 0.018	Standard Deviation : 0.042	Mileage: 0.7	FDI: 8.3
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Instantaneous Frequency		
Max	50.243	7:58:50
Min	49.790	19:17:50

An Hour Average Frequency		
Max	50.105	8:00:00
Min	49.907	20:00:00

No. of excursions	
above 50.03 Hz	1
below 49.97 Hz	2
above 50.00 Hz	4
below 50.00 Hz	4

Average time freq per excursion remains	
below 49.97	3:00:00
above 50.03	4:00:00

Source : BALLIA:Frequency 60 Min. (24 samples)