



Monitoring Report

WMATA Bus Garage Monthly Report

March 2023

Noise Exceedances:

There continues to be numerous noise level exceedances at all hours of the day and all days of the week. Mic1 had 36% of its exceedances outside of working hours. Mic 2 recorded the highest noise levels of any location which were highest after working hours and on weekends. Mic3 had 25% exceedances coming outside of working hours. Mic4 35% exceedances coming outside of working hours. Mic5 had the had most exceedances with 51% coming outside of working hours.

Vibration Exceedances:

During the monitoring period there was one vibration exceedance event. Please see the date, time, and magnitude outlined below. Note the VM1 and VM 2 are set to flag an exceedance at a value on 0.2 inch per second (IPS) to alert for potential damage at the historic façade. This value is 1/10 of the value recognized for potential damage to sheetrock/plaster for adjacent properties and all exceedance readings are significantly below the 2 IPS threshold.

VM Sensor 1

VM-2 PVS 3/4/2023 12:13 1.2238

The exceedance of this magnitude on this date, was due to the instrumentation being struck inadvertently by a piece of equipment working adjacent to the instrument.

Air Quality/Dust Monitoring Exceedances:

There were 3 events during the March monitoring period. Of the three, DM 2 experienced a peak magnitude 44 micrograms per cubic meter on March 30. Please see the date, time, and magnitude outlined below.

DM Sensor 2

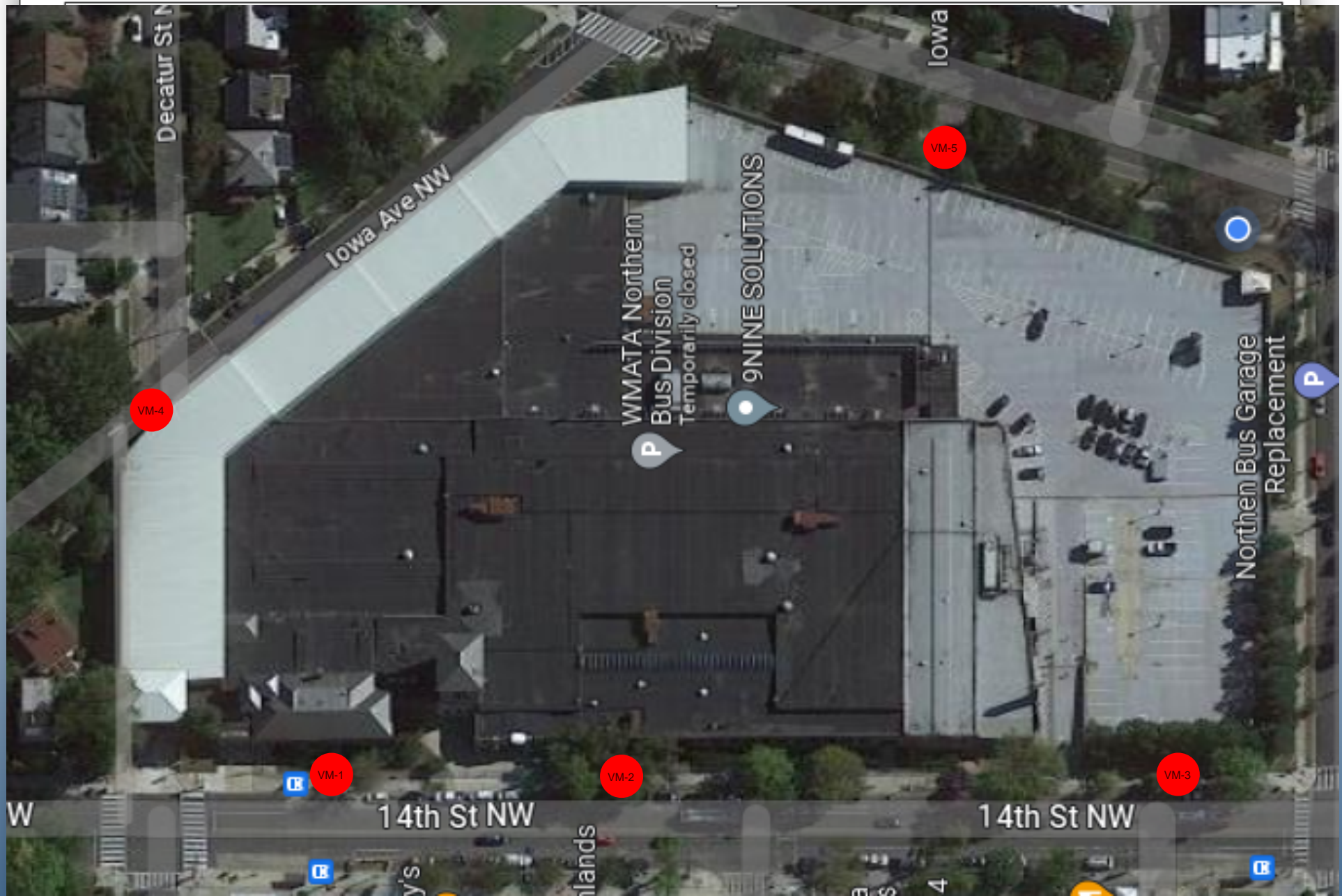
DM2_PM2.5 3/30/2023 6:25 44

DM Sensor 3

DM3_PM2.5 3/27/2023 11:38 41

DM3_PM2.5 3/27/2023 11:53 42

The exceedance on 3/30/2023 was outside of construction hours and is believed to be due to wind/outside factors associated with storms experienced in the region that evening.

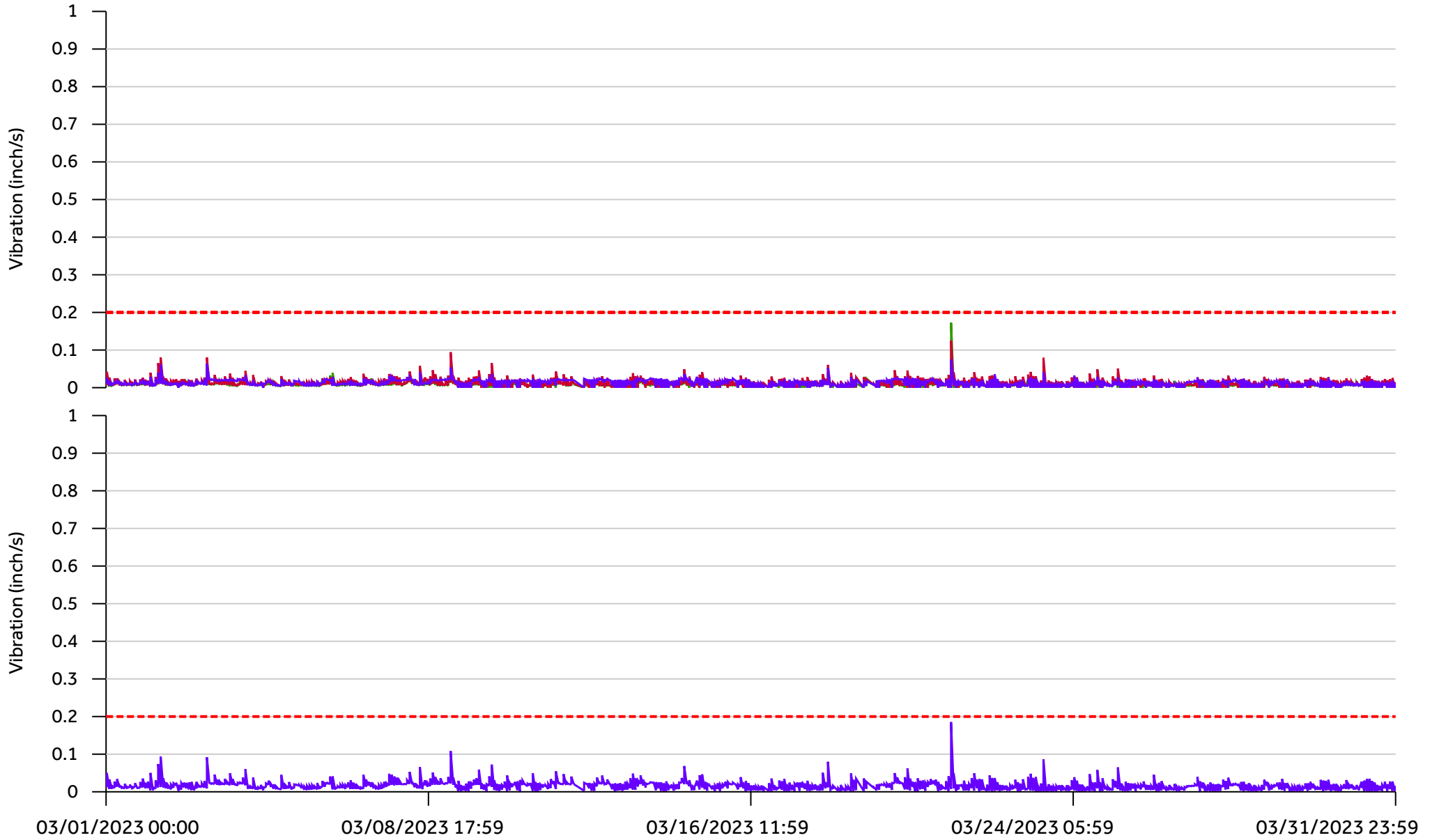


Air Monitor



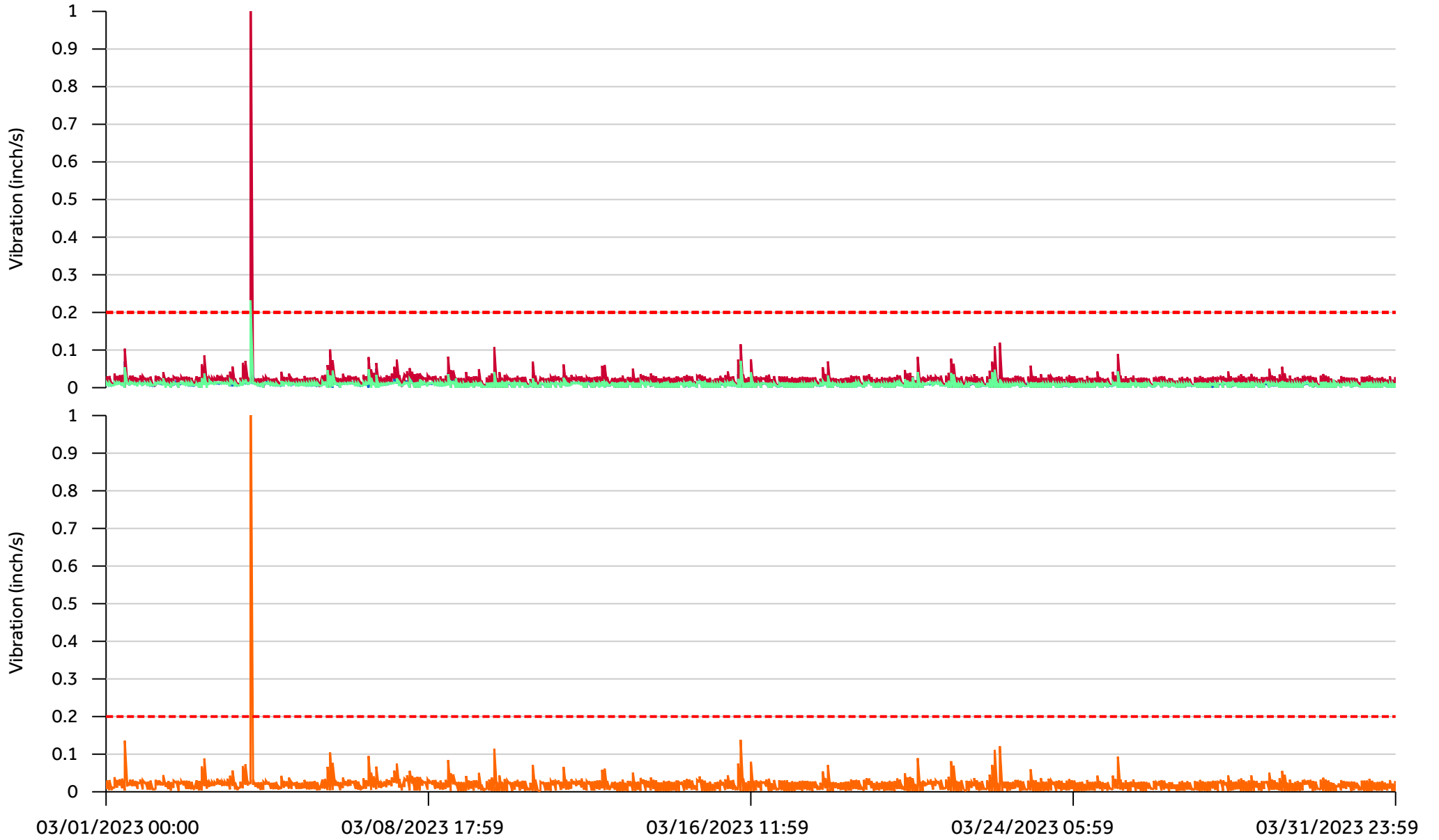
VM1-MIC				Work hours	After hours	Weekends	
	Exceedance	Percentage		Lmax	111.3	106.3	107.1
Work hours	1146	64.17%		Lmin	42.7	38.4	39.7
After hours	403	22.56%		L10	106	104	105
Weekends	237	13.27%		L90	91	86	91
Total	1786			Leq	100.4	100.3	100.4
VM2-MIC				Work hours	After hours	Weekends	
	Exceedance	Percentage		Lmax	110.5	106.6	109.6
Work hours	3264	81.72%		Lmin	41.5	41.1	41.8
After hours	419	10.49%		L10	106	103	106
Weekends	311	7.79%		L90	96	86	92
Total	3994			Leq	99.6	97.7	100.7
VM3-MIC				Work hours	After hours	Weekends	
	Exceedance	Percentage		Lmax	101.2	105.6	108.4
Work hours	1155	75.10%		Lmin	40.8	36.8	38.4
After hours	234	15.21%		L10	98	100	104
Weekends	149	9.69%		L90	87	85	87
Total	1538			Leq	93.6	94.6	98.3
VM4-MIC				Work hours	After hours	Weekends	
	Exceedance	Percentage		Lmax	109.7	95.6	96.5
Work hours	150	65.79%		Lmin	34.6	33.7	35.4
After hours	52	22.81%		L10	99	92	95
Weekends	26	11.40%		L90	88	84	81
Total	228			Leq	95.3	89.2	88.8
VM5-MIC				Work hours	After hours	Weekends	
	Exceedance	Percentage		Lmax	105.9	109.3	103.7
Work hours	257	49.81%		Lmin	43	35.9	36.6
After hours	162	31.40%		L10	104	106	99
Weekends	97	18.80%		L90	87	87	86
Total	516			Leq	97.9	100	94

VM-1- Vibration Monitor



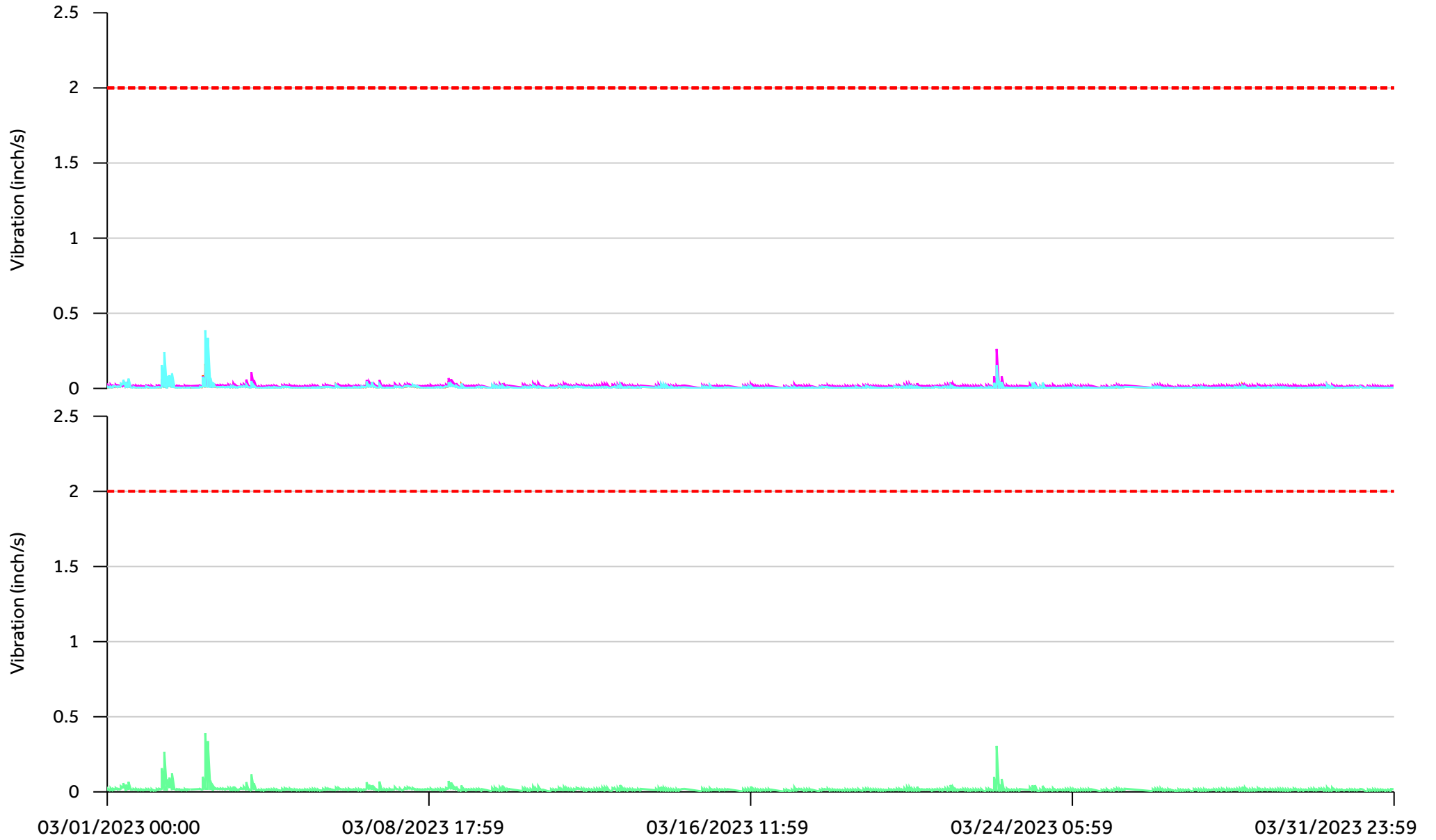
VM-1 Tran VM-1 Vert VM-1 Long VM-1 PVS Z

VM-2- Vibration Monitor



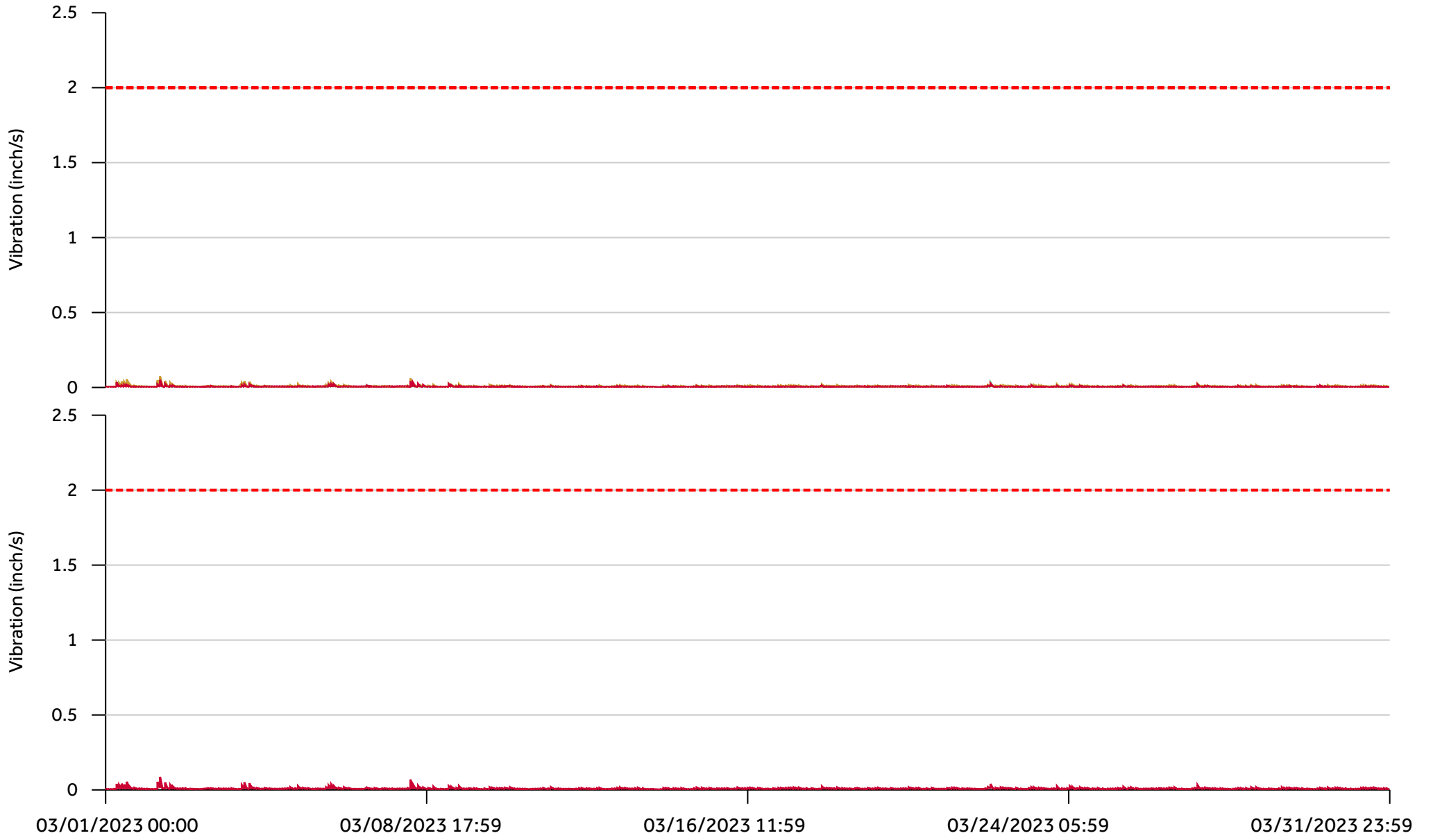
VM-2 Tran VM-2 Vert VM-2 Long VM-2 PVS Z

VM-3- Vibration Monitor



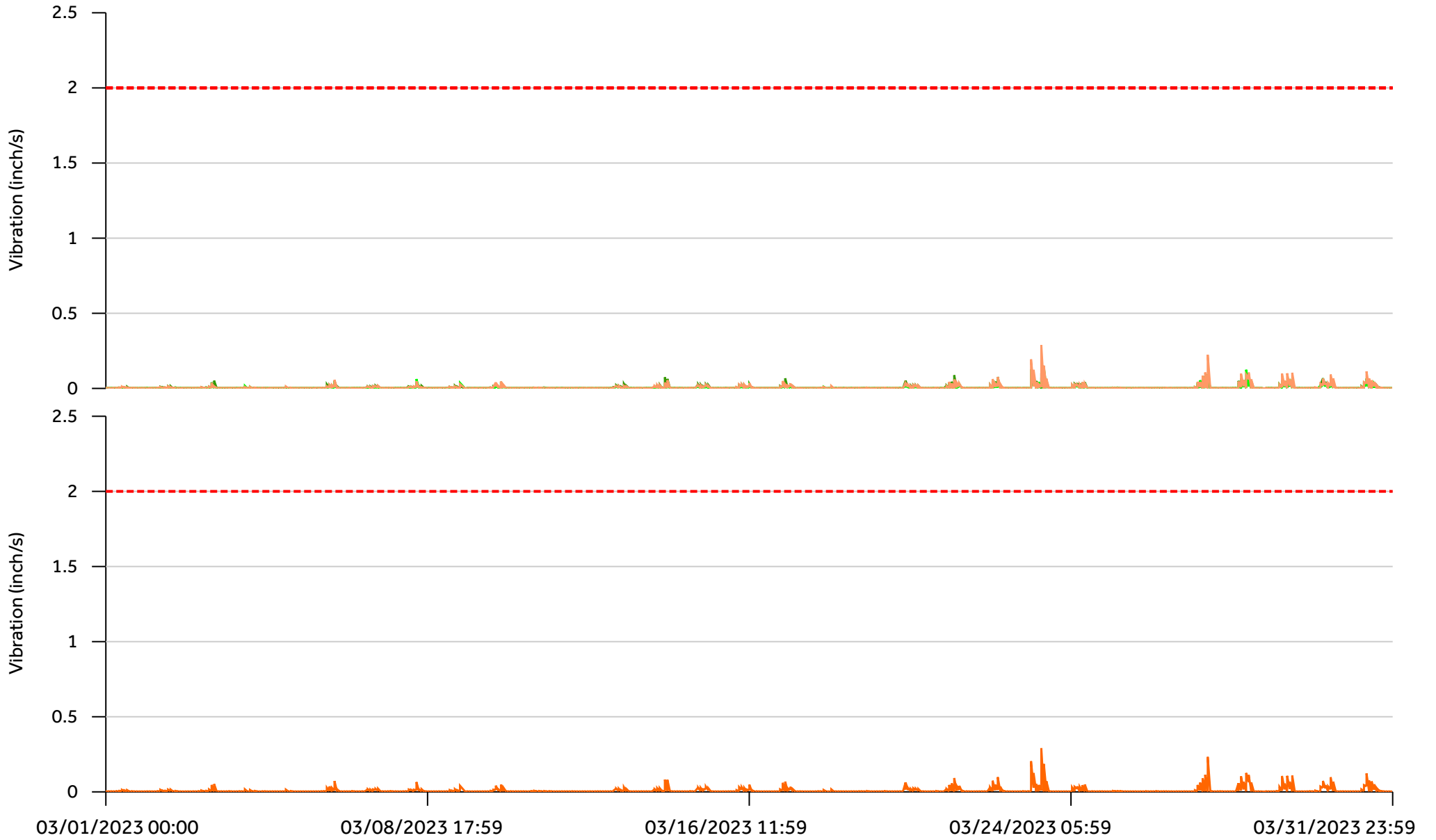
VM-3 Tran VM-3 Vert VM-3 Long VM-3 PVS Z

VM-4- Vibration Monitor



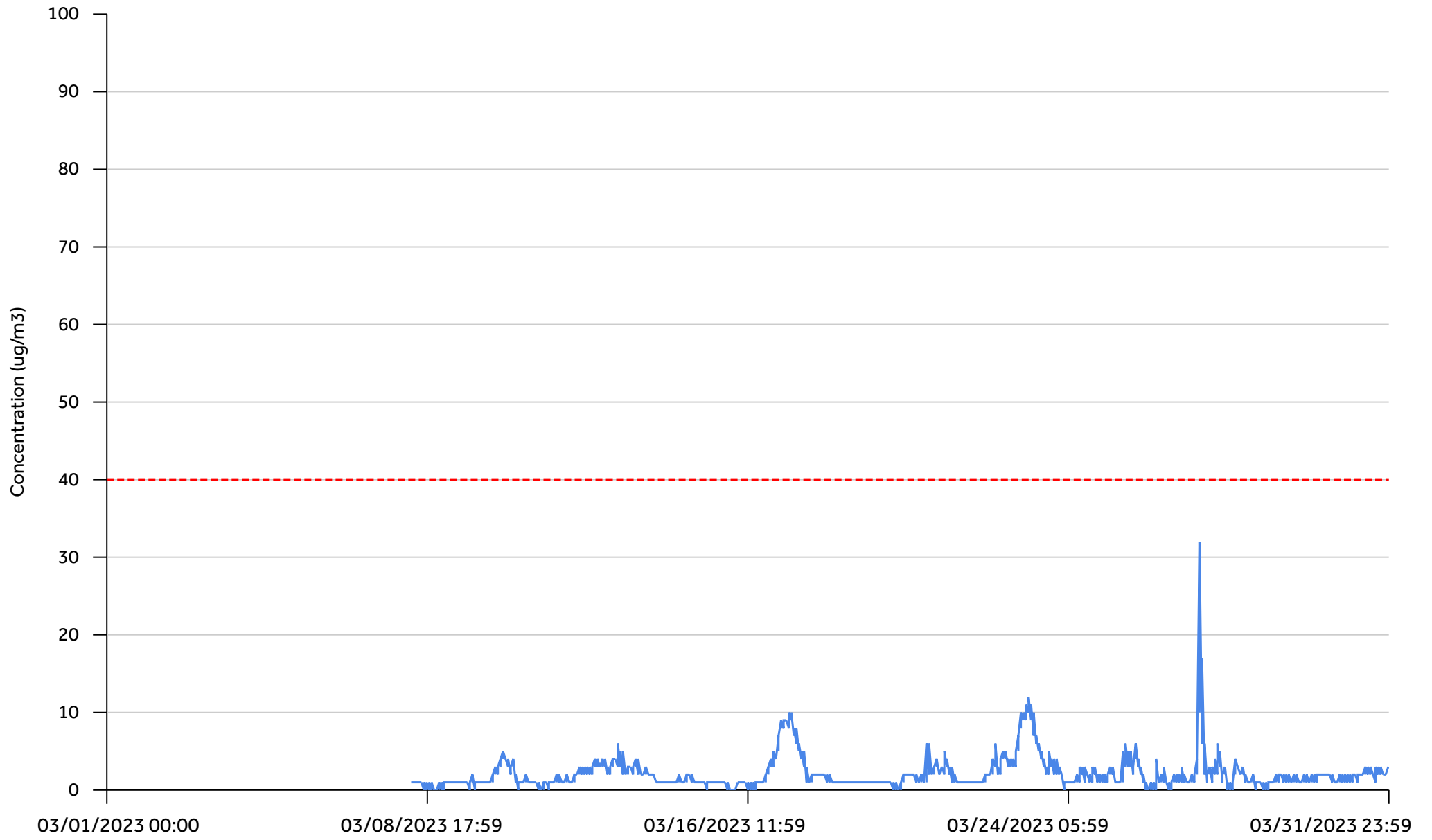
VM-4 Tran VM-4 Vert VM-4 Long VM-4 PVS Z

VM-5- Vibration Monitor



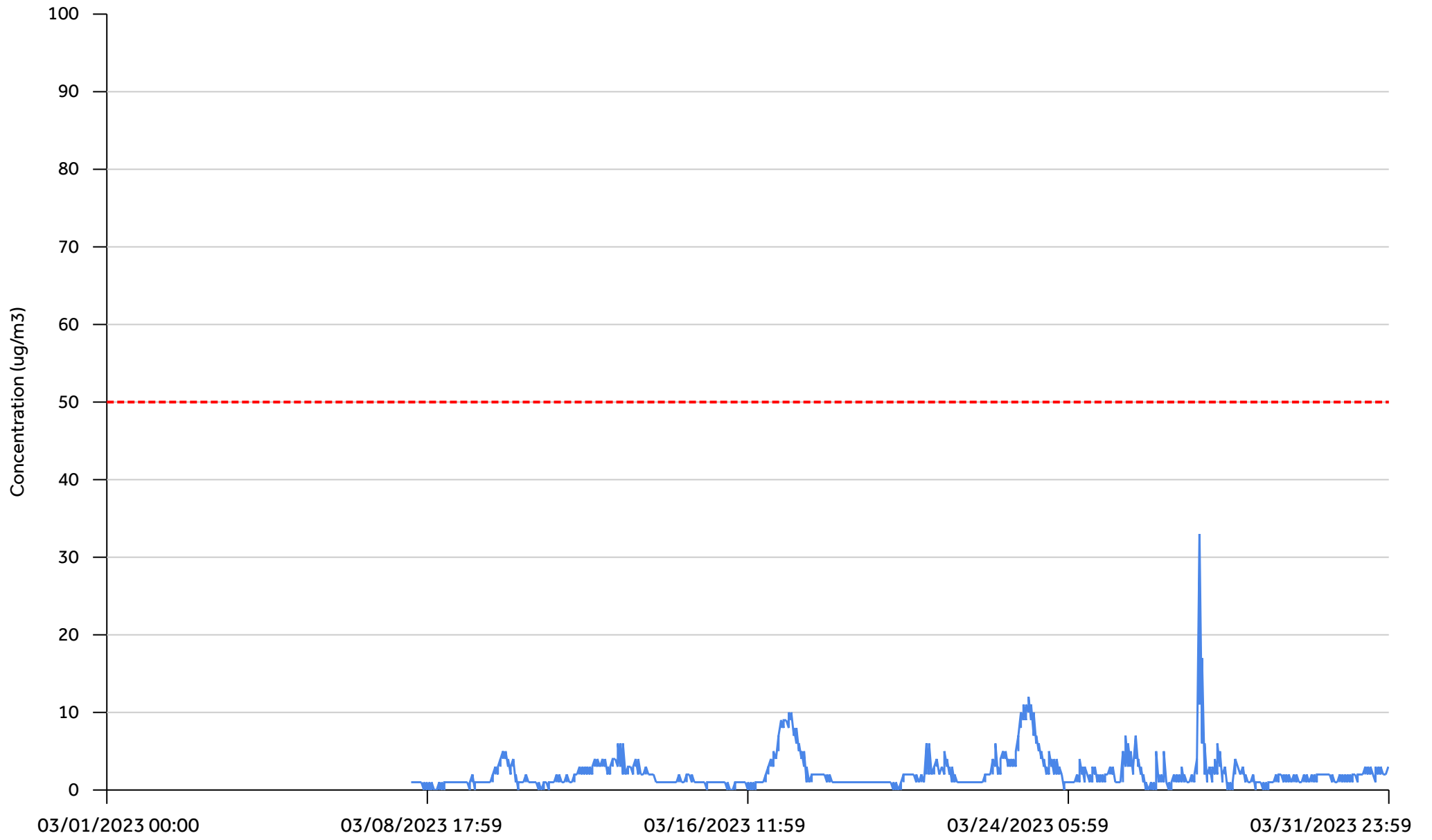
VM-5 Tran VM-5 Vert VM-5 Long VM-5 PVS Z

DM1-PM2.5



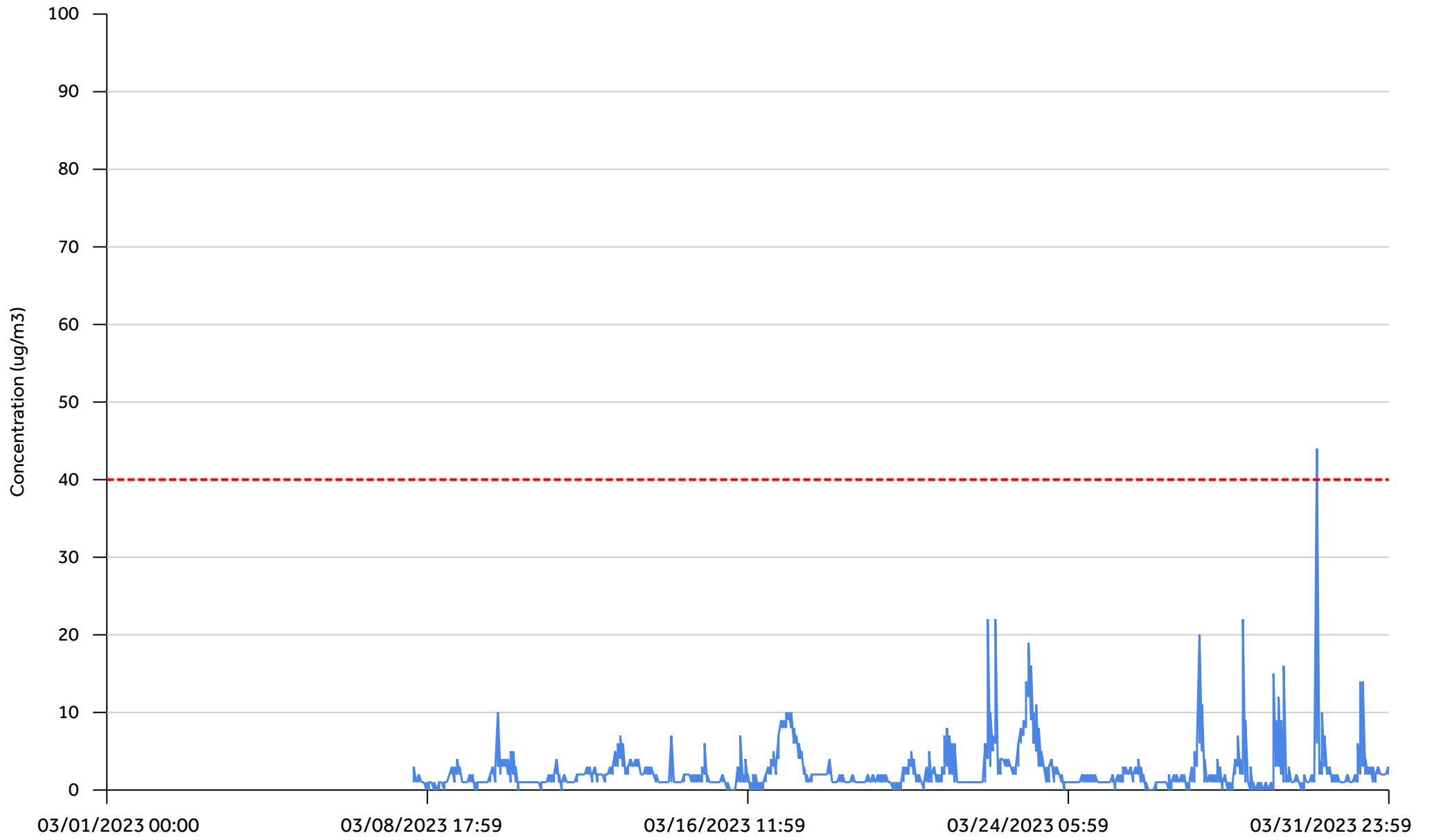
DM1_PM2.5 Z

DM1 - PM10



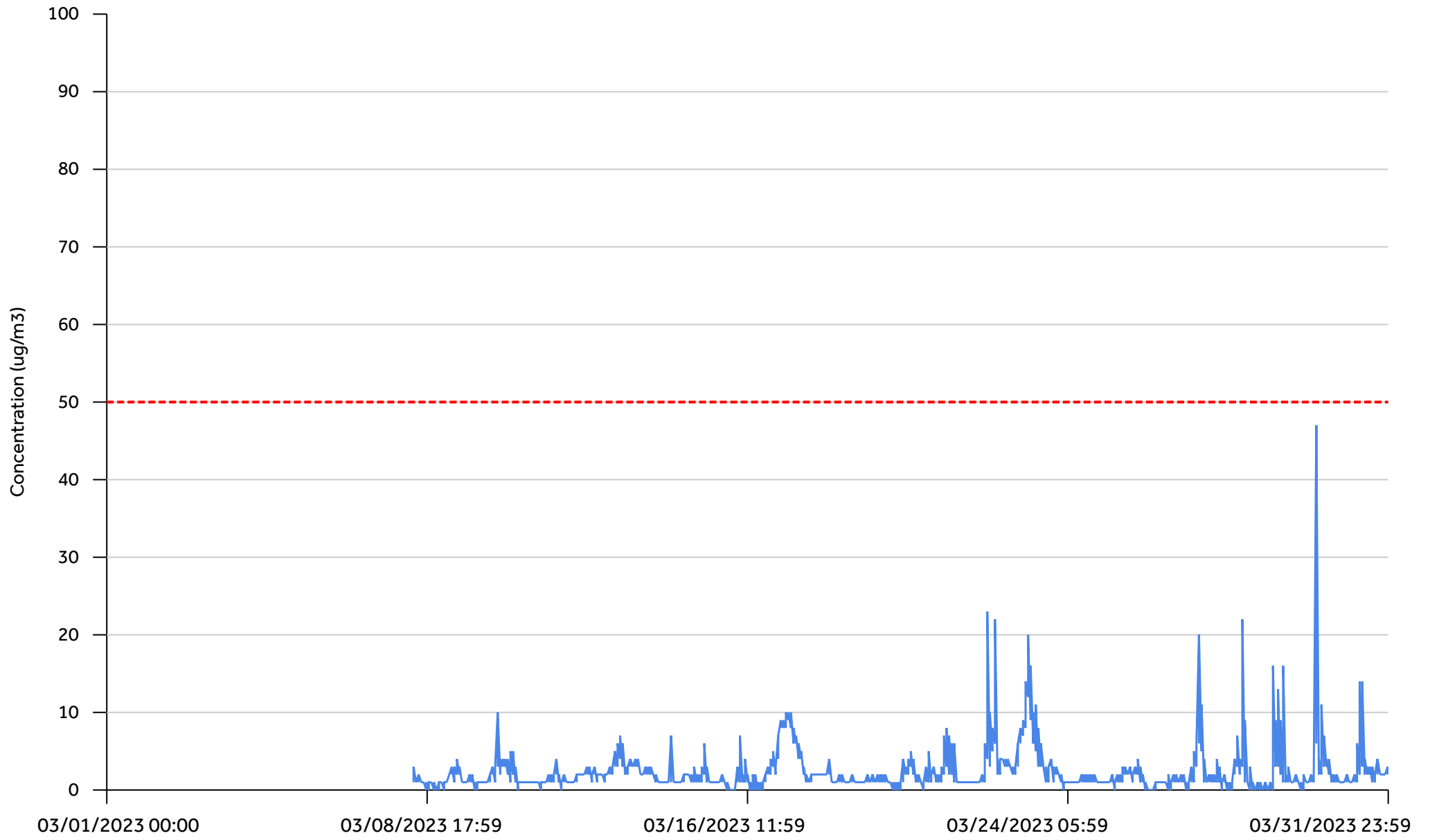
DM1_PM10 Z

DM2-PM2.5



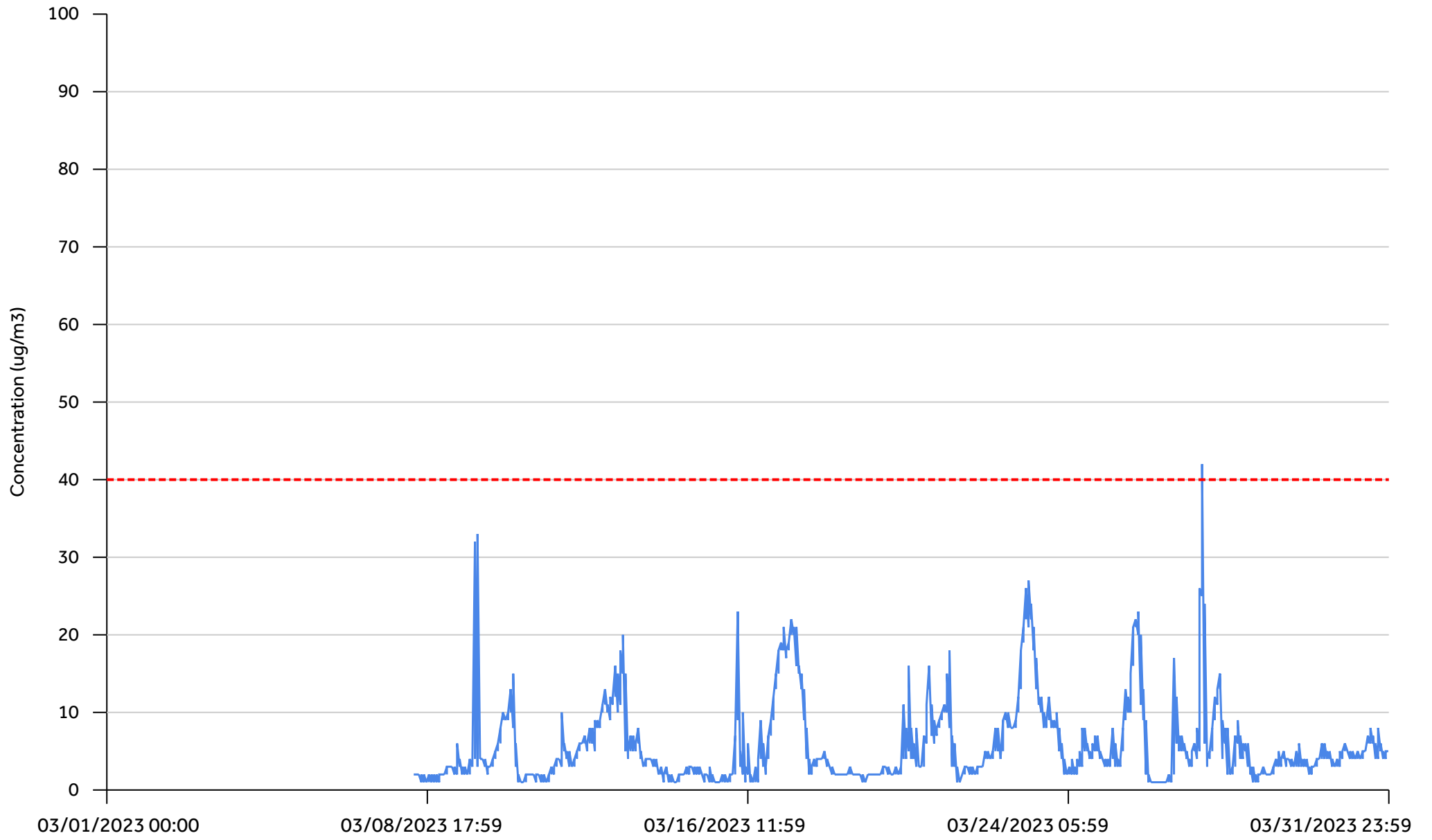
DM2_PM2.5 Z

DM2-PM10



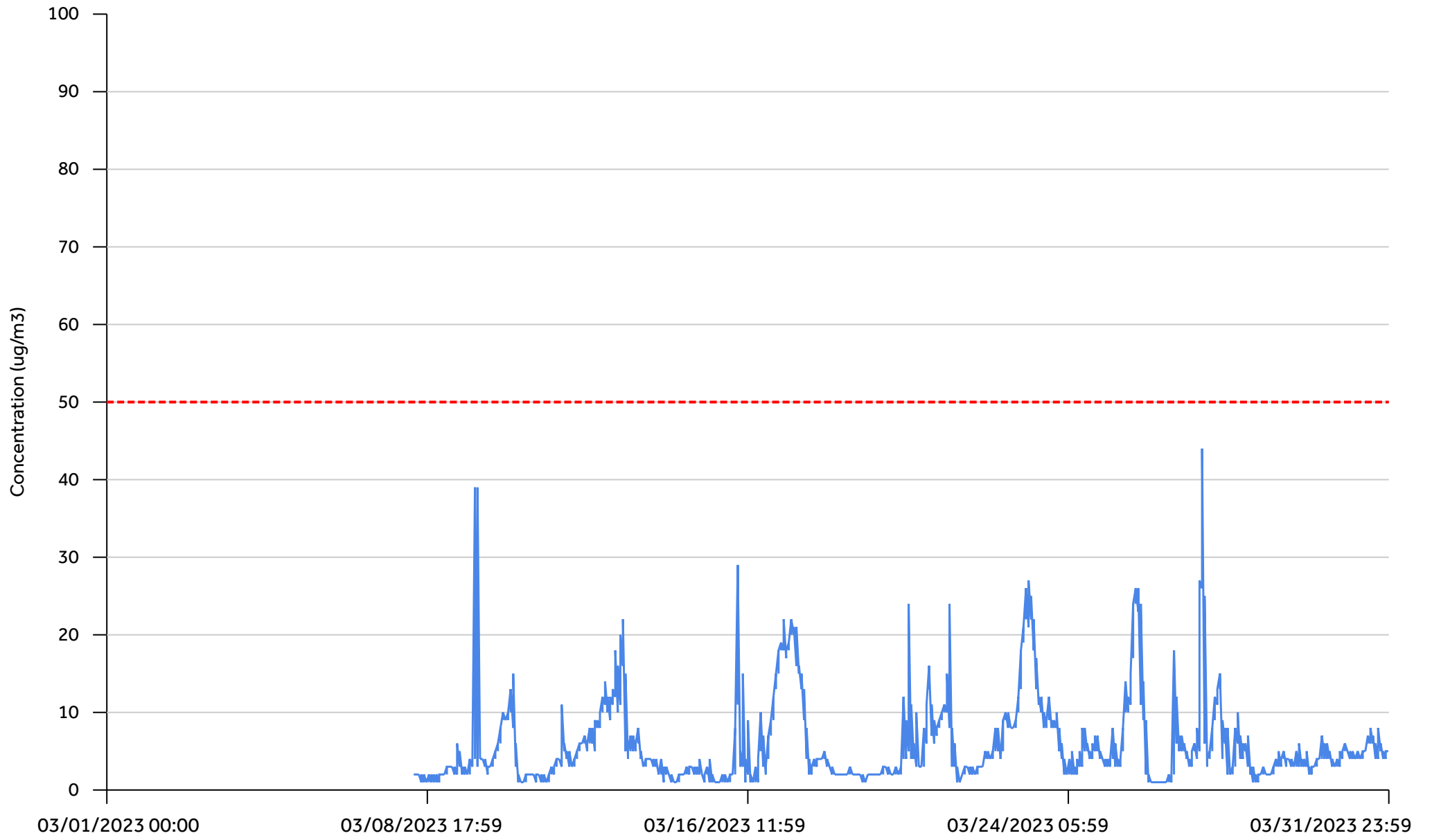
DM2_PM10 Z

DM3-PM2.5



DM3_PM2.5 Z

DM3-PM10



DM3_PM10 Z