

504-514 SOUTH BOULEVARD PROJECT
EVANSTON, IL

**VIBRATION
MONITORING
REPORT-7**

Mr. Antwan Ahmed
Leopardo Companies
210 N. Carpenter Street, Suite 300
Chicago, Illinois 60607

December 1, 2025

Cti



4262 Old Grand Ave
Suite 102
Gurnee, IL 60031

December 1, 2025

Mr. Antwan Ahmed
Leopardo Companies
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

RE: **Report 7:** - *Ground Vibration Monitoring of Construction Activities for the 504-514 S. Boulevard Project located in Evanston, Illinois.*

Mr. Ahmed,

Construction Testing and Instrumentation, Inc. (CTI) have prepared this vibration monitoring report, to evaluate vibrations during construction activities. This report summarizes the results of ground vibration monitoring of three seismographs. All units are located at the adjacent residential properties to the project site (see attached location diagram). This summary report covers the monitoring period from **November 24, 2025, through November 30, 2025**

The site is equipped with two Omnidot Swarm V2.2cw seismographs and one Geosonic 3000LC. All devices are capable of recording peak particle velocity (PPV) and frequency (in Hertz), allowing for comprehensive vibration monitoring and analysis. The maximum allowable peak particle velocity is 0.5 inches per second (IPS), which is based upon the criteria established by the U.S Bureau of Mines (USBM) and a typical construction threshold. The seismographs are set to trigger whenever vibration levels exceed 0.003 in/s lowest (PPV) and continuously monitor vibrations during all construction activities.

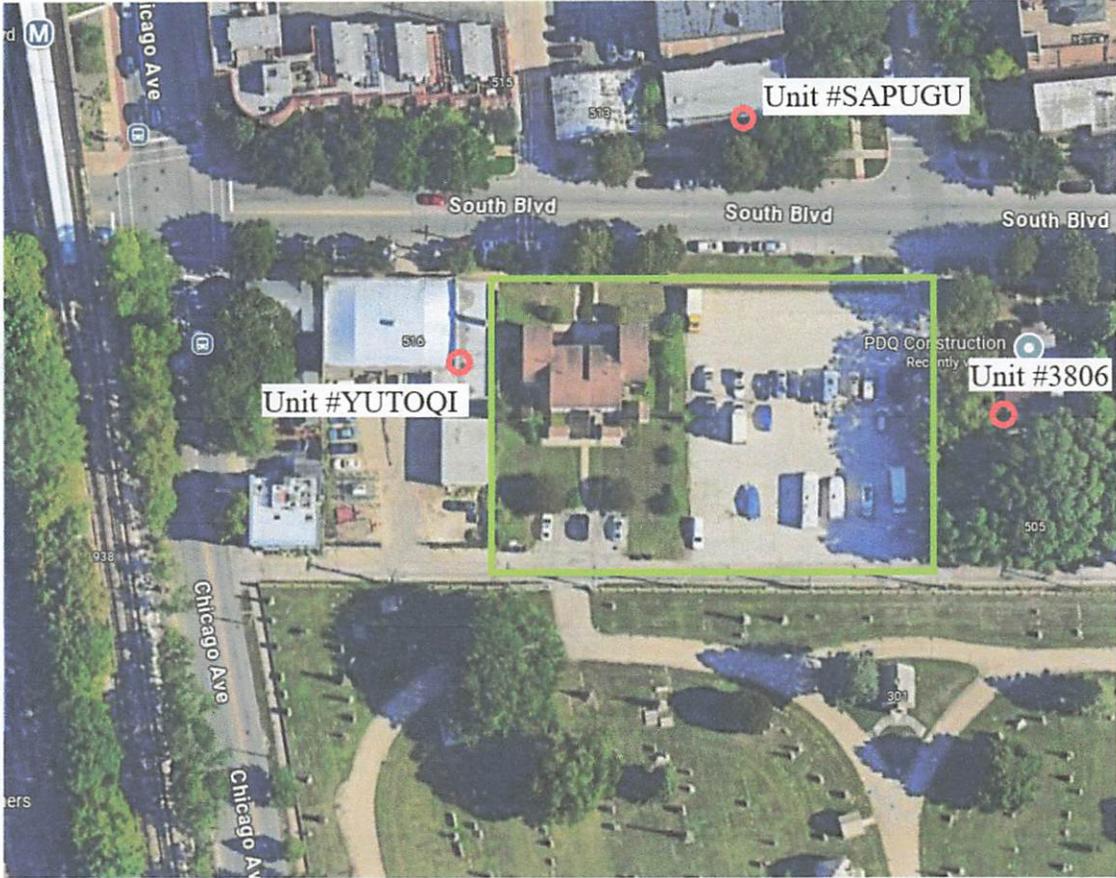
All vibration recordings during this report period were below the 0.5-inch per second threshold limit. The maximum PPV and averages for the monitoring period are below.

November 28, 2025	Location #1 – 516 South Blvd	Unit #YUTOQI	0.068 (in/sec)
November 30, 2025	Location #2 – 507 South Blvd	Unit #SAPUGU	0.027 (in/sec)
November 24, 2025	Location #3 – 424 South Blvd	Unit #3806	0.153 (in/sec)

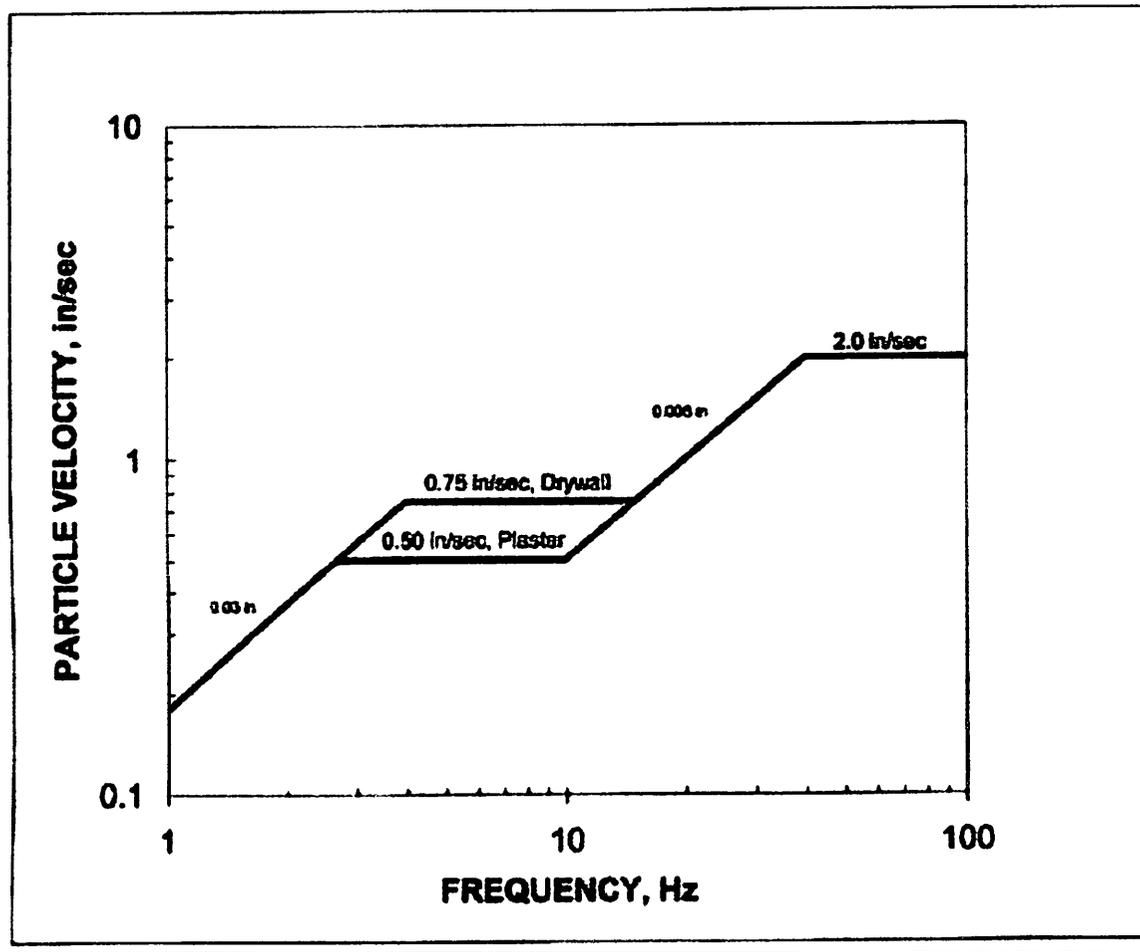
If you have any questions regarding this report, please contact this office at (847) 244-5108.

Sincerely,
Construction Testing & Instrumentation, Inc.

Daniel J. McCarthy
Senior Instrumentation Specialist



○ Seismograph Location



INDUSTRY STANDARD ACCEPTABLE PPV LEVELS

The most influential research on the effects of ground-borne vibrations was conducted by Siskind et al. (1980) of the U.S. Bureau of Mines.¹ Based on the results of an extensive experimental study, the authors recommended acceptable vibration levels for residential structures at which there is a sufficiently lower probability of damage initiation. They suggested a minimum peak particle velocity at frequencies below 40 Hz of 0.75 in/sec for homes with gypsum wallboard construction and 0.5 in/sec for homes with plaster and lath construction. An acceptable peak particle velocity of 2.0 in/sec was recommended for all homes at frequencies greater than 40 Hz. These values were based on a 5% probability of occurrence of threshold (cosmetic) damage. The authors also developed a more detailed functional relationship between acceptable PPV levels and vibration frequency. A similar functional relationship was adopted by the Office of Surface Mining Reclamation and Enforcement.² The USBM and OSMRE curves are shown in Figure 2. These recommended acceptable PPV levels have been successfully applied to other activities that induce ground-borne vibrations and they have been widely used by the construction industry.

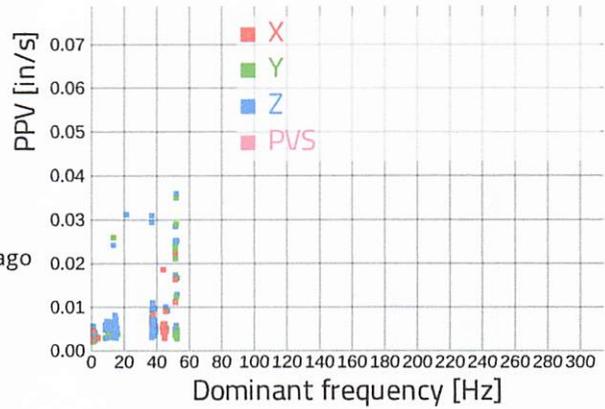
¹ Siskind, D. E., Stagg, M. S., Kopp, J. W., and Dowding, C. H. (1980). "Structure Response and Damage Produced by Ground Vibration from Surface Blasting," *Report of Investigations 8507*, U.S. Bureau of Mines. ² Rosenthal, M. F. and Morlock, G. L. (1987). *Blasting Guidance Manual*, U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement.

Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



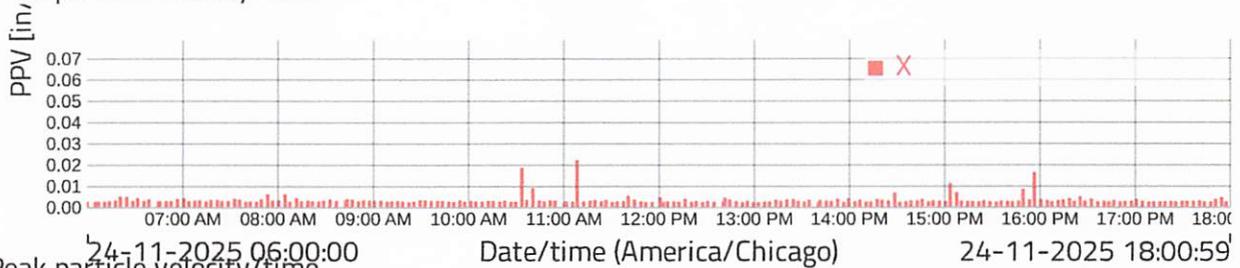
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 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
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 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

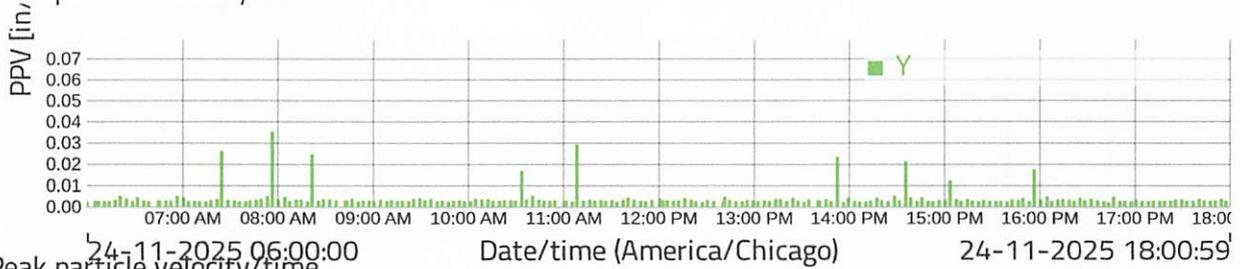


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 24, 2025 11:11:17	x	0.022	52.0
Nov. 24, 2025 07:58:47	y	0.035	52.5
Nov. 24, 2025 11:11:17	z	0.036	52.5

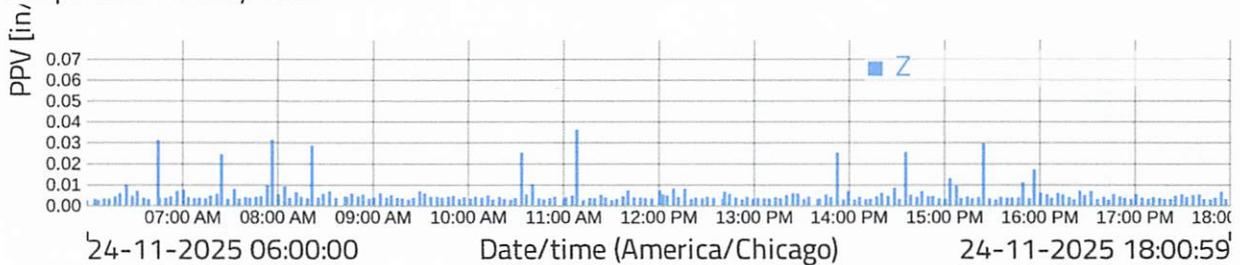
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

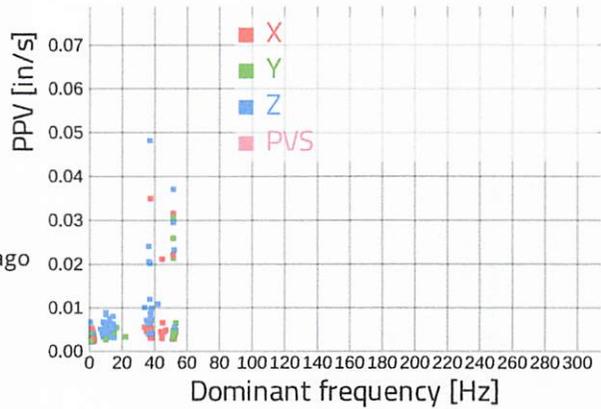


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



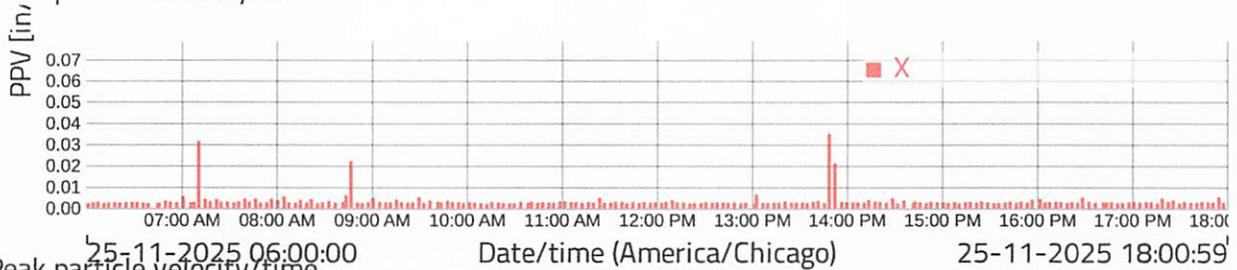
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Peak particle velocity/frequency

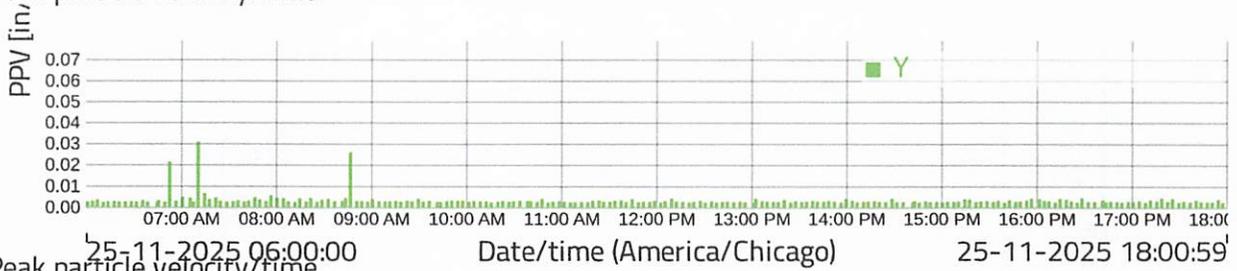


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 25, 2025 13:51:47	x	0.035	38.0
Nov. 25, 2025 07:12:11	y	0.030	52.0
Nov. 25, 2025 13:51:47	z	0.048	37.5

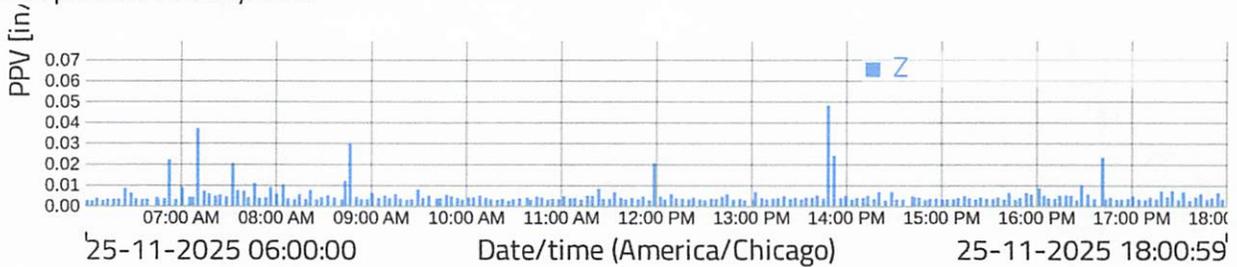
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

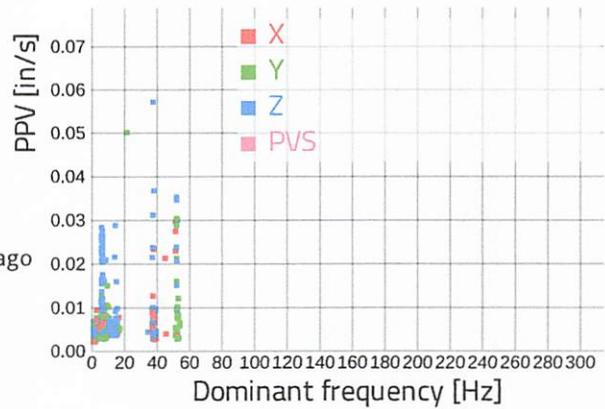


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



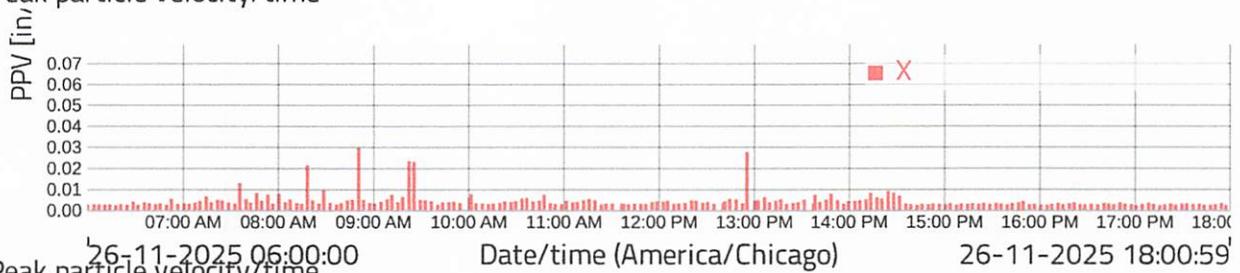
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Peak particle velocity/frequency

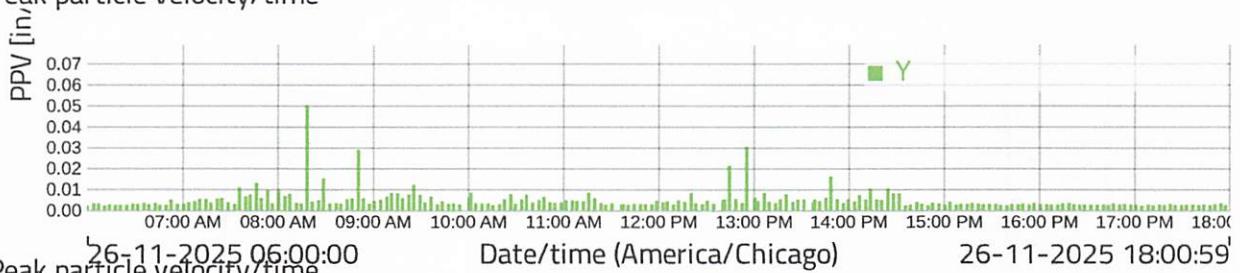


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 26, 2025 08:51:35	x	0.029	52.0
Nov. 26, 2025 08:18:35	y	0.050	22.0
Nov. 26, 2025 08:18:35	z	0.057	38.0

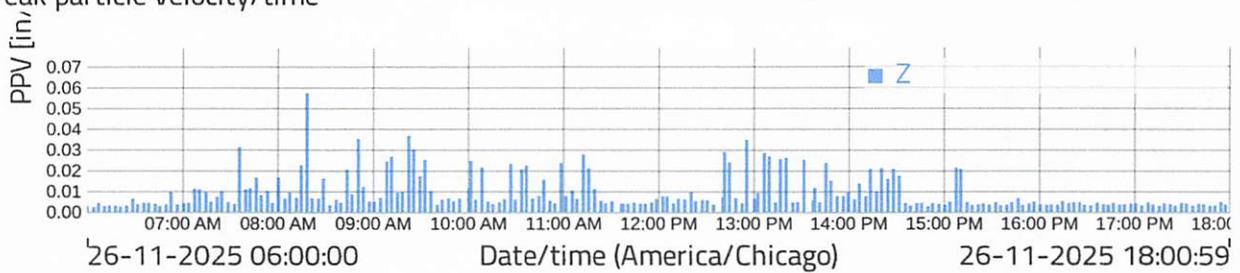
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

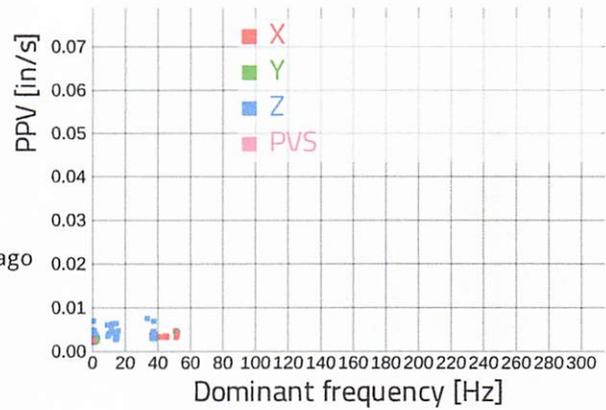


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



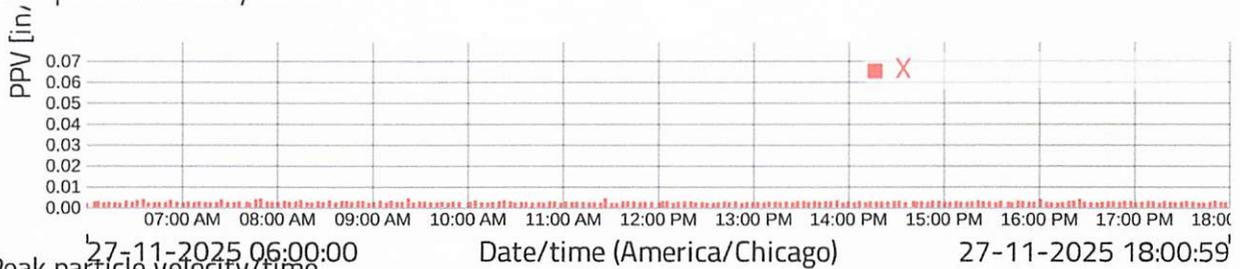
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Peak particle velocity/frequency

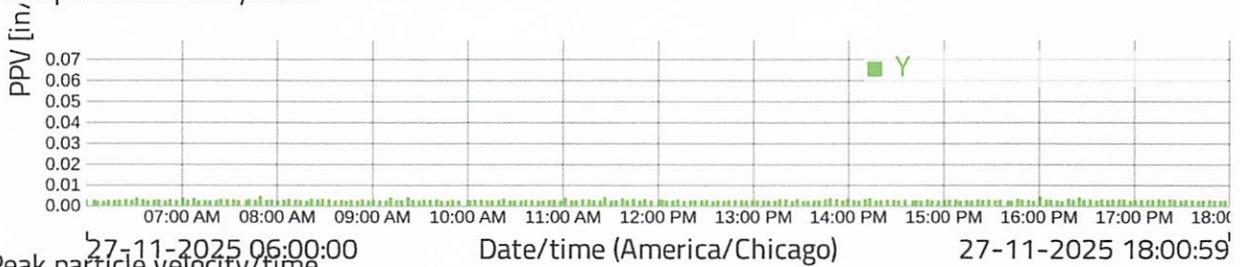


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 27, 2025 11:26:59	x	0.004	51.5
Nov. 27, 2025 07:52:59	y	0.004	52.0
Nov. 27, 2025 09:23:59	z	0.007	34.0

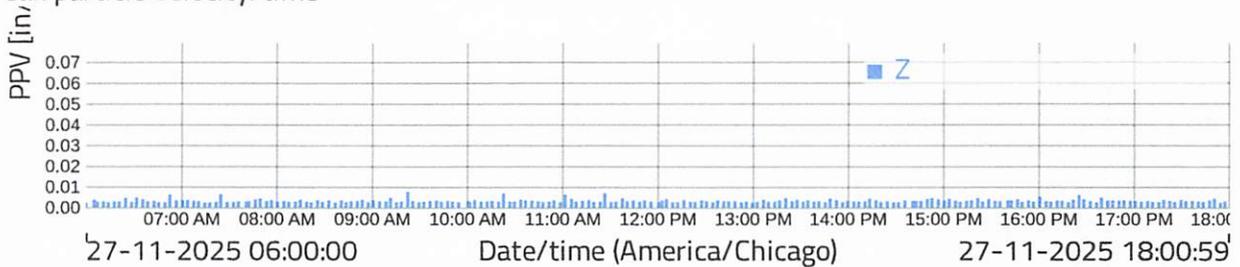
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

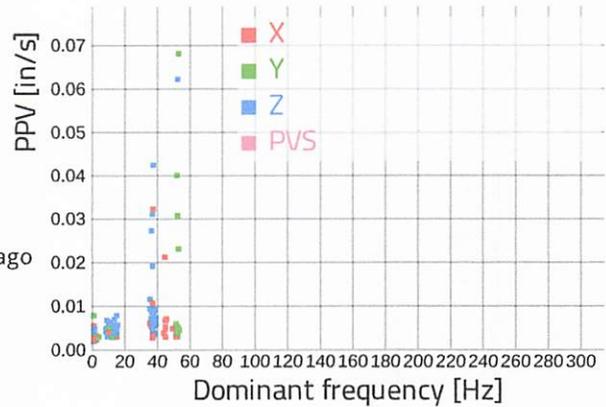


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



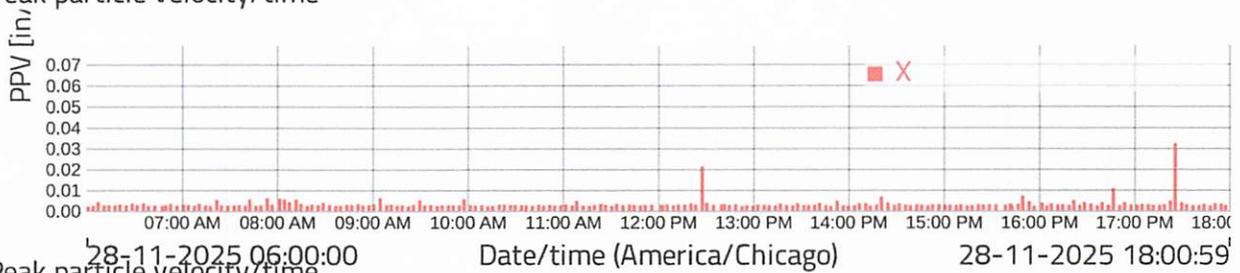
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 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency



Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 28, 2025 17:28:17	x	0.032	38.0
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Nov. 28, 2025 12:30:41	z	0.062	53.0

Peak particle velocity/time

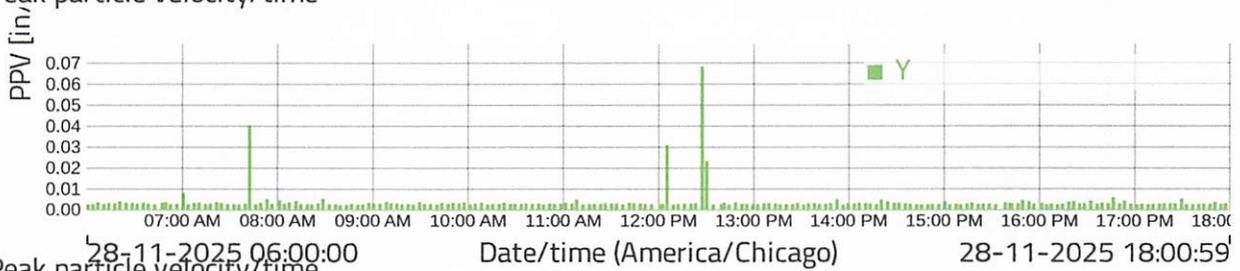


28-11-2025 06:00:00

Date/time (America/Chicago)

28-11-2025 18:00:59

Peak particle velocity/time

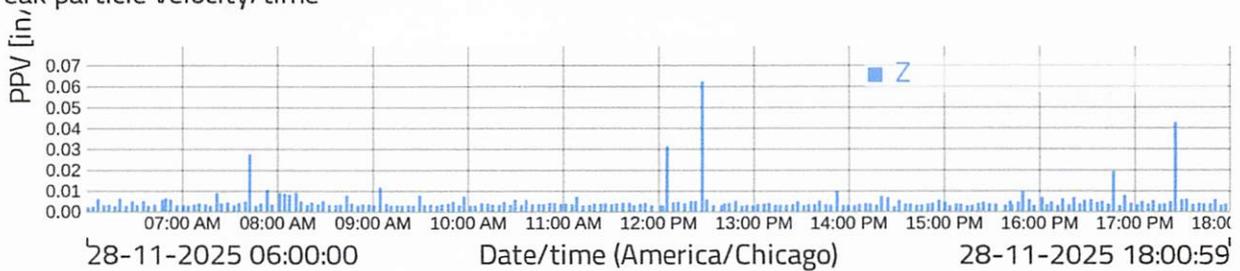


28-11-2025 06:00:00

Date/time (America/Chicago)

28-11-2025 18:00:59

Peak particle velocity/time



28-11-2025 06:00:00

Date/time (America/Chicago)

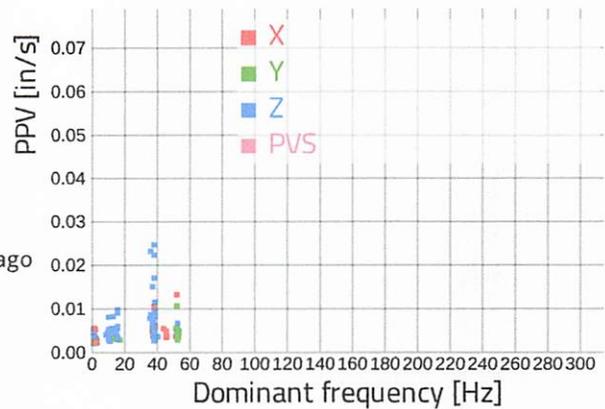
28-11-2025 18:00:59

Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



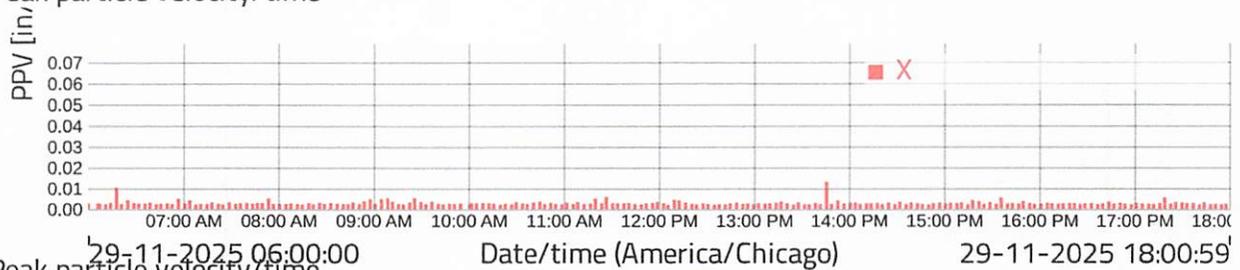
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Peak particle velocity/frequency

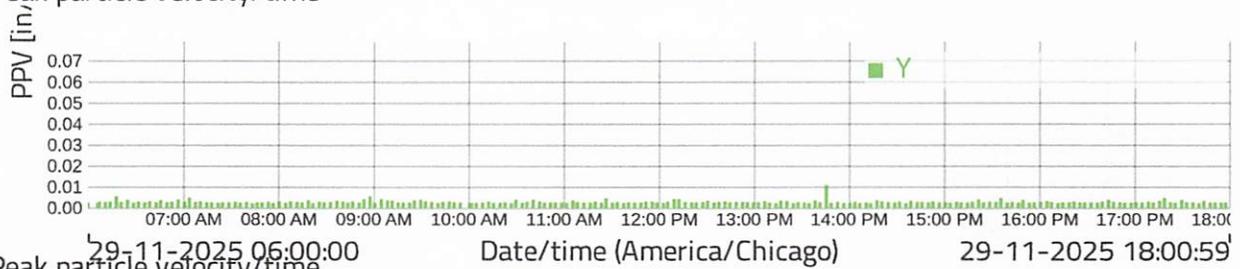


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 29, 2025 13:45:59	x	0.013	52.5
Nov. 29, 2025 13:45:59	y	0.010	52.5
Nov. 29, 2025 13:59:23	z	0.025	38.5

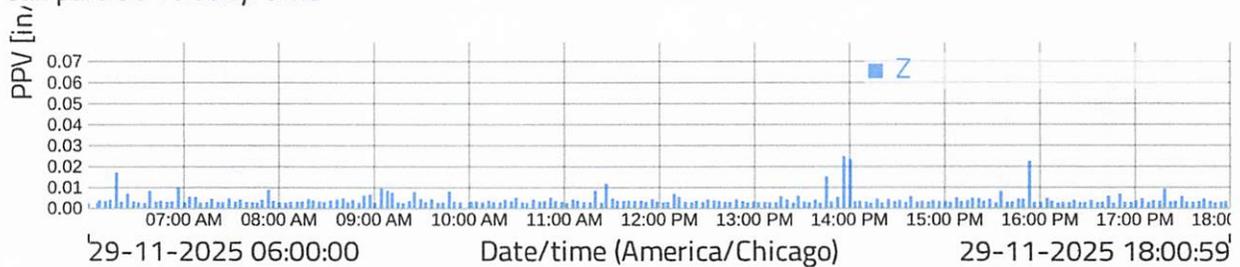
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

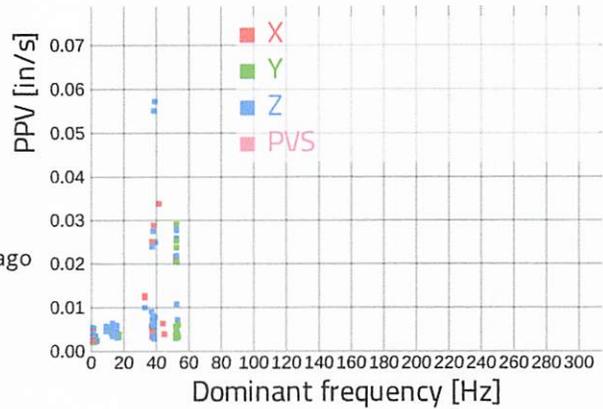


Project: LEOPARDO
 Measuring point: 516 S BLVD
 (YUTOQI)



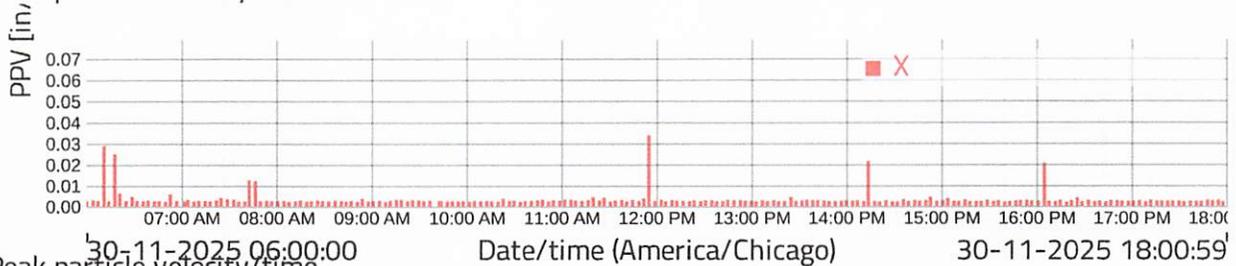
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Peak particle velocity/frequency

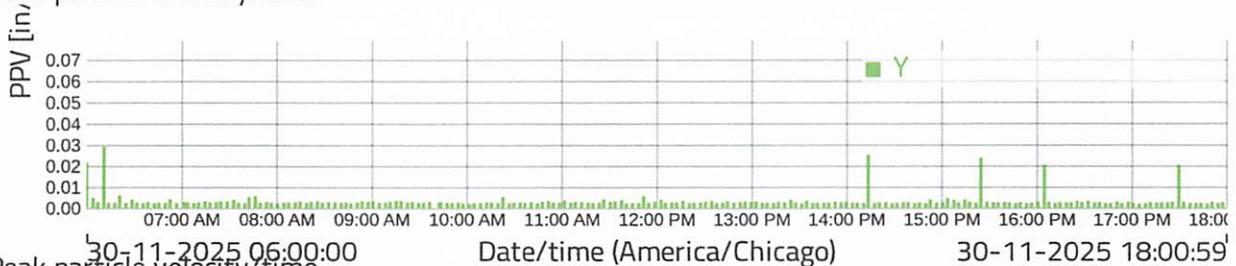


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 30, 2025 11:55:17	x	0.034	42.0
Nov. 30, 2025 06:13:47	y	0.029	53.0
Nov. 30, 2025 11:55:17	z	0.057	39.5

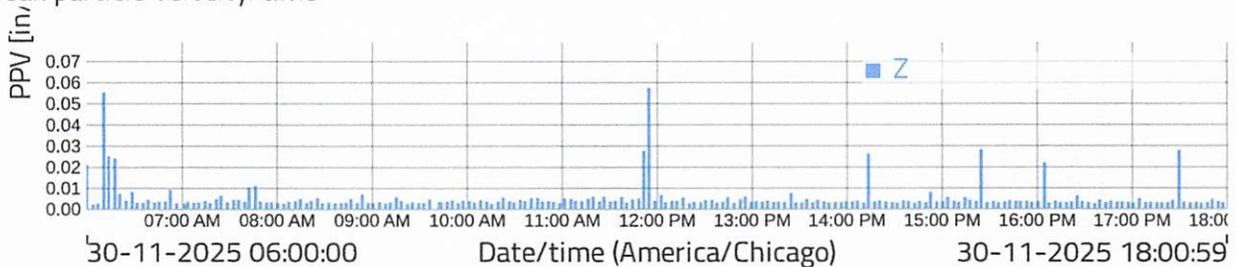
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

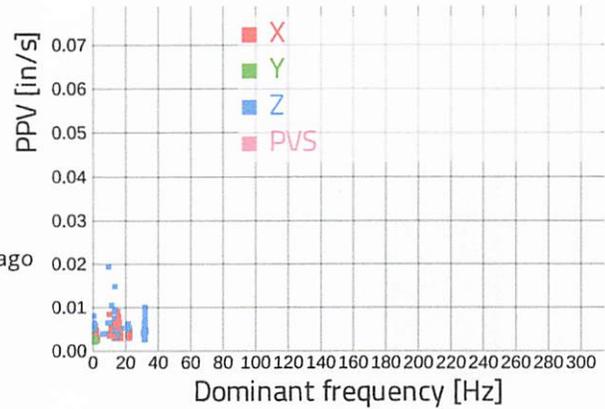


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



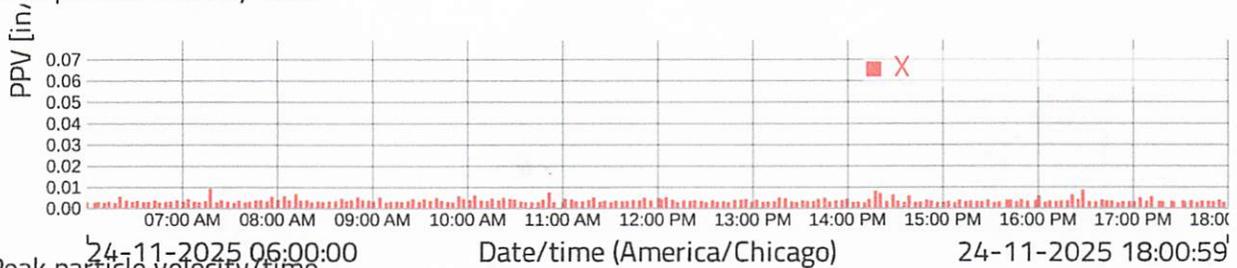
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 Storage below threshold interval 60 seconds
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 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

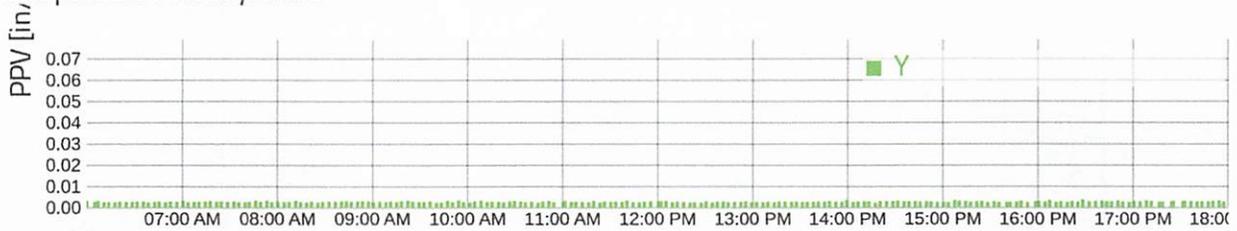


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 24, 2025 07:19:59	x	0.009	15.5
Nov. 24, 2025 16:31:59	y	0.003	1.0
Nov. 24, 2025 16:31:59	z	0.019	10.0

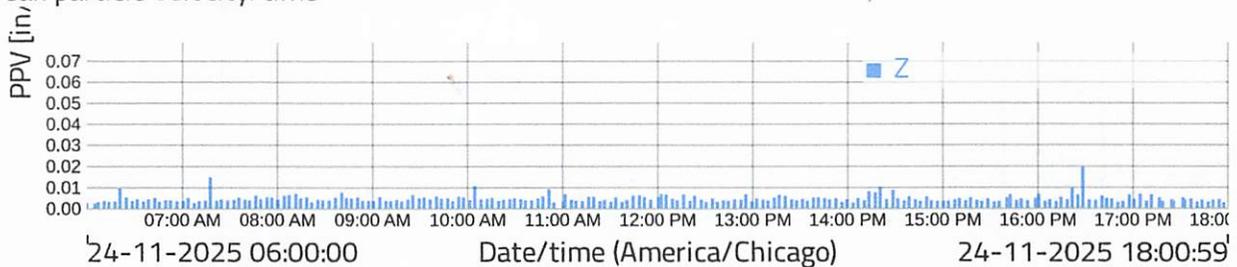
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

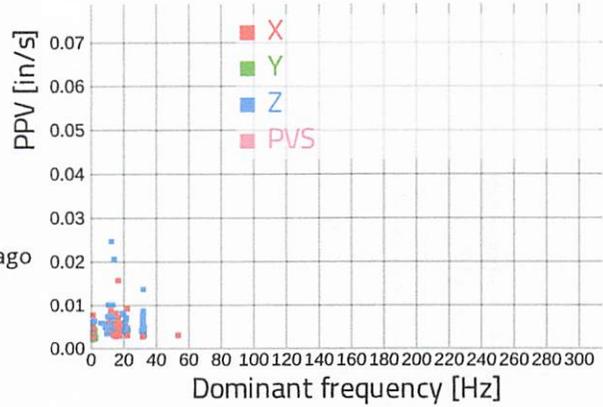


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



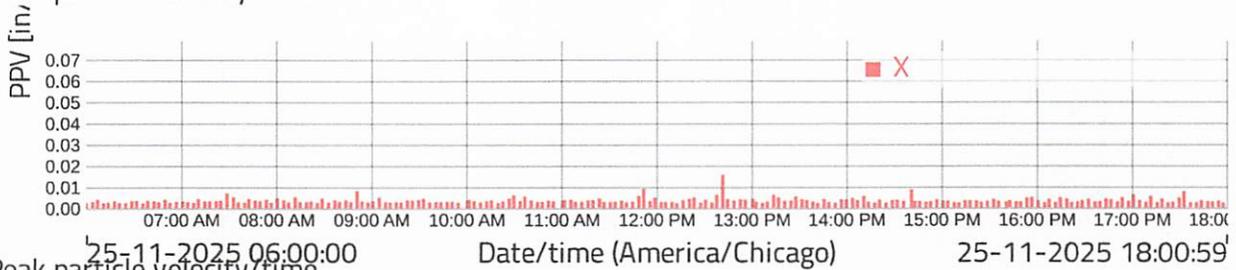
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Peak particle velocity/frequency

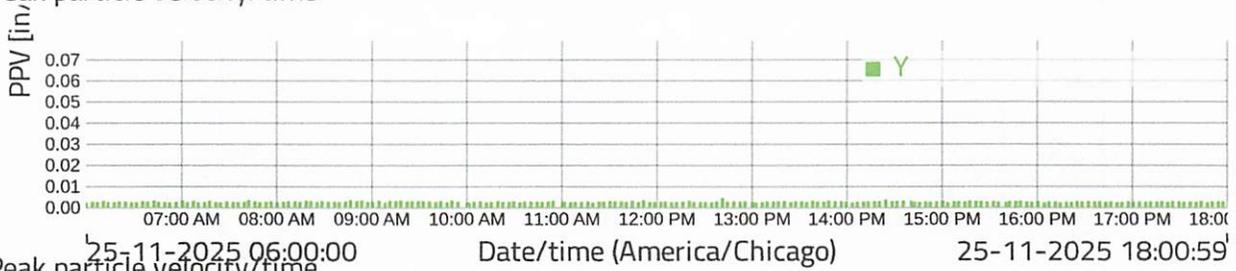


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 25, 2025 12:41:59	x	0.016	17.0
Nov. 25, 2025 12:41:59	y	0.004	2.5
Nov. 25, 2025 12:49:41	z	0.025	13.0

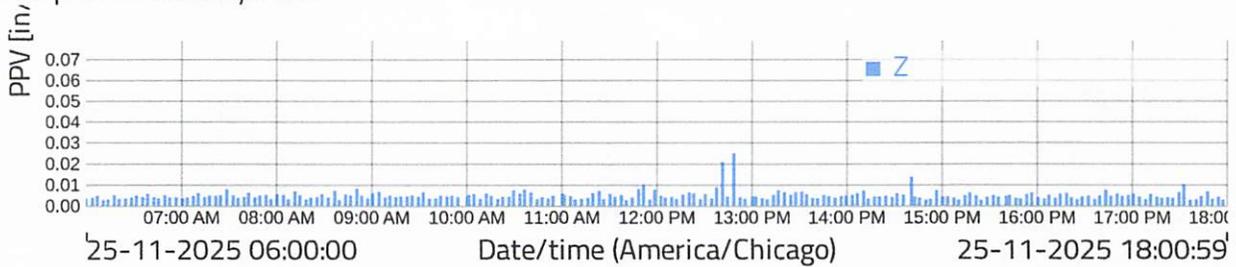
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

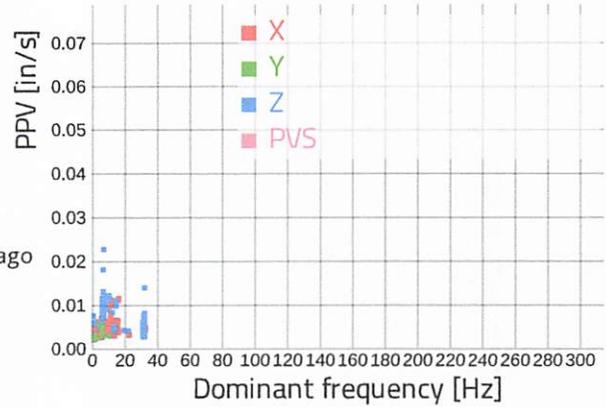


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



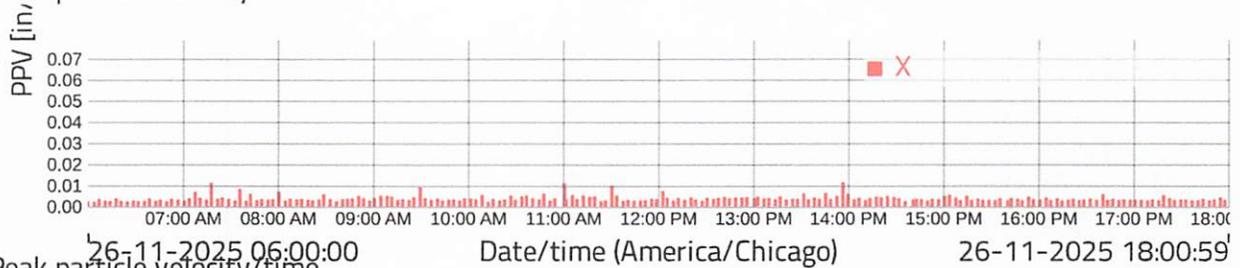
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Peak particle velocity/frequency

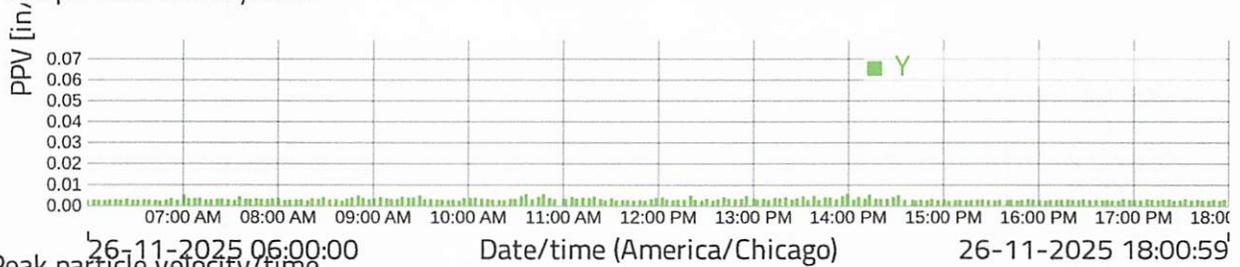


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 26, 2025 13:56:59	x	0.011	16.5
Nov. 26, 2025 14:00:59	y	0.006	5.5
Nov. 26, 2025 14:39:23	z	0.023	7.5

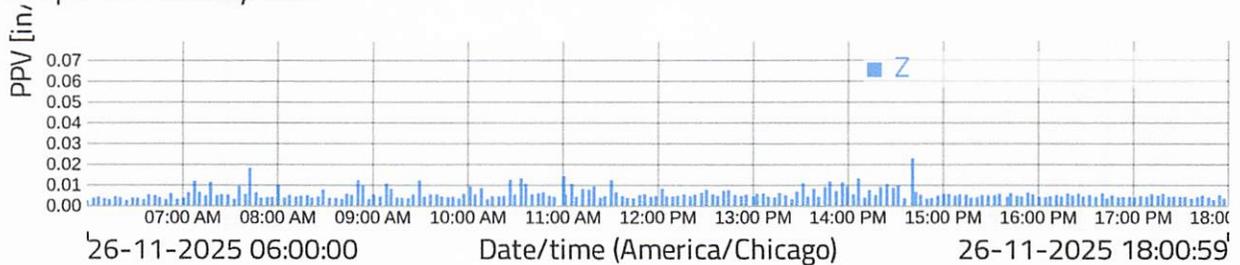
Peak particle velocity/time



Peak particle velocity/time



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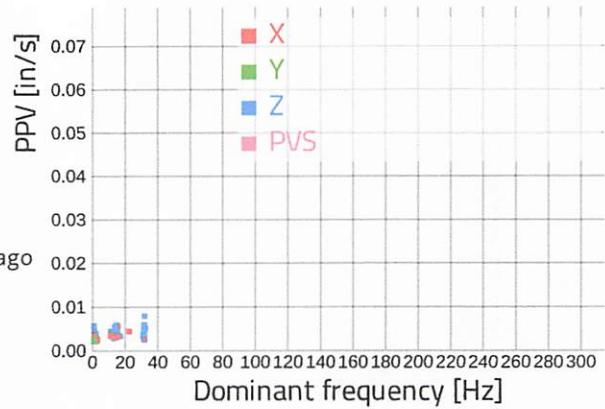


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



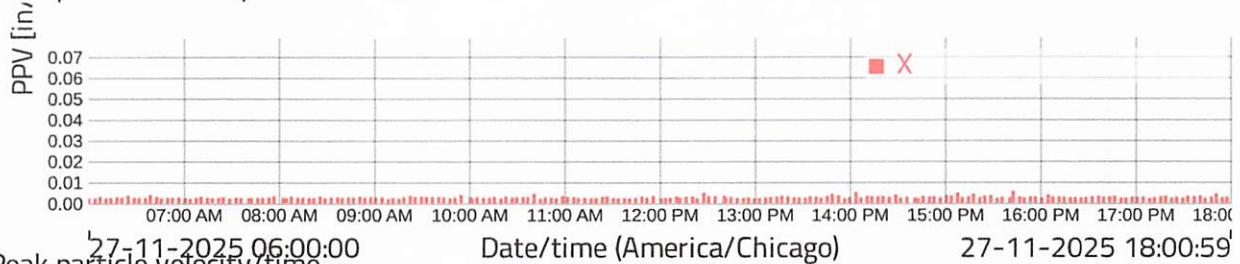
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Peak particle velocity/frequency

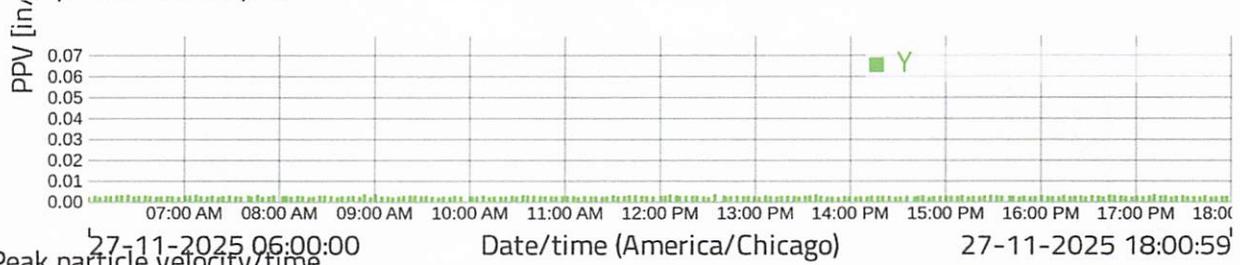


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 27, 2025 15:43:59	x	0.005	16.0
Nov. 27, 2025 08:53:59	y	0.003	1.5
Nov. 27, 2025 15:43:59	z	0.008	32.5

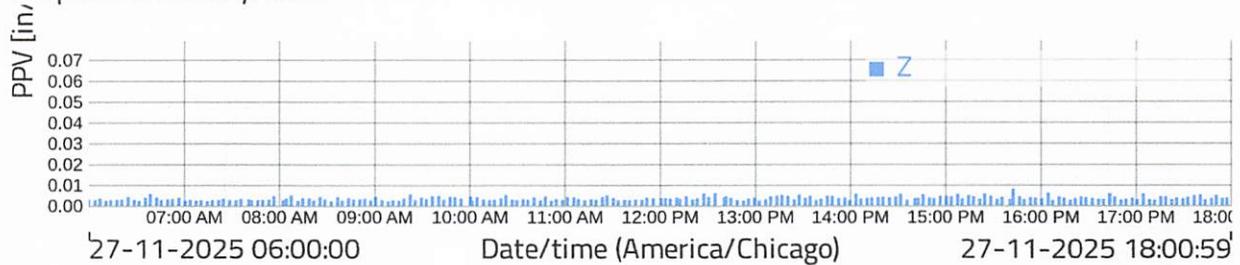
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

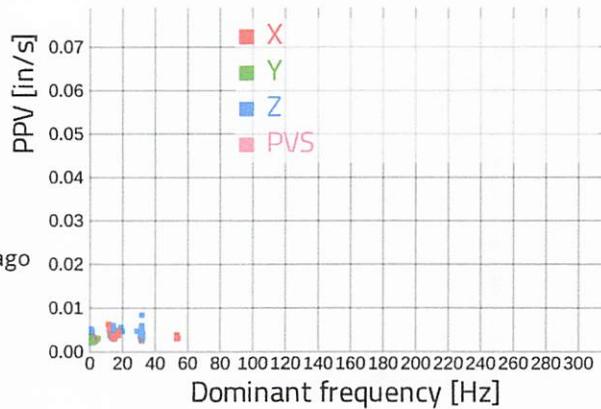


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



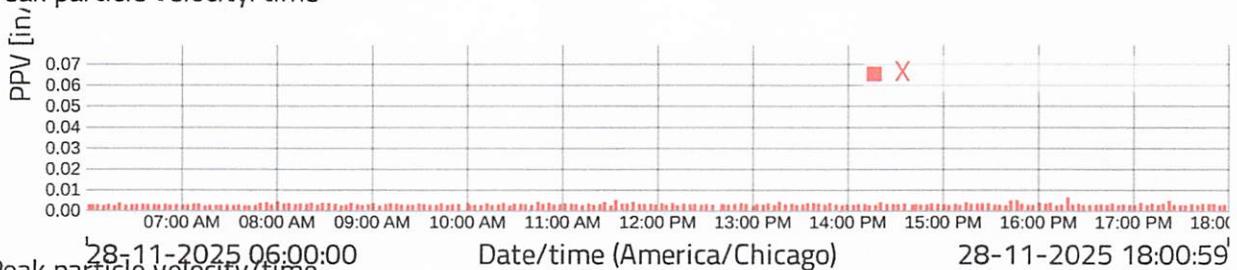
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

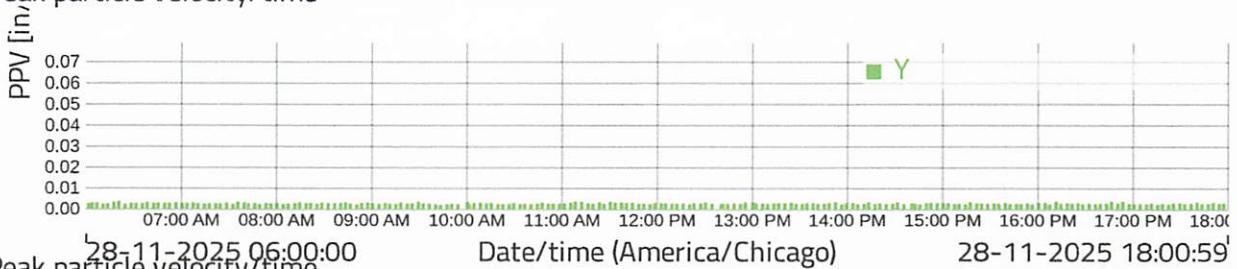


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 28, 2025 16:19:59	x	0.006	12.0
Nov. 28, 2025 06:22:59	y	0.003	1.0
Nov. 28, 2025 11:34:59	z	0.008	32.5

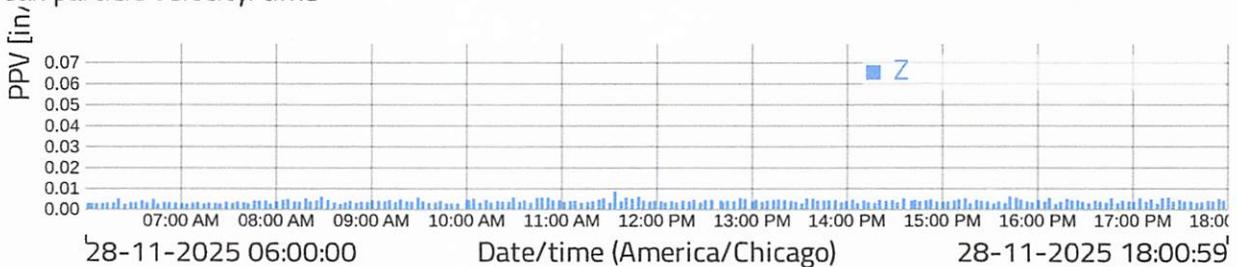
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

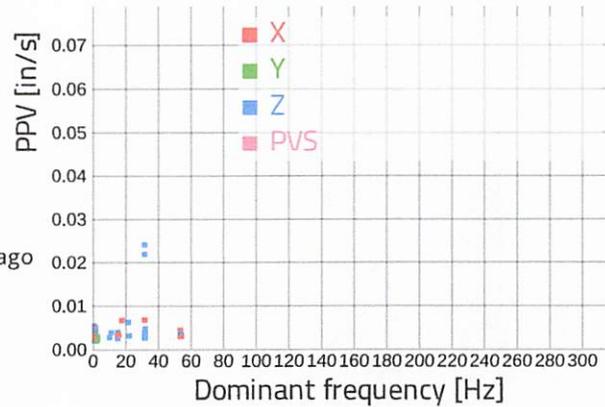


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



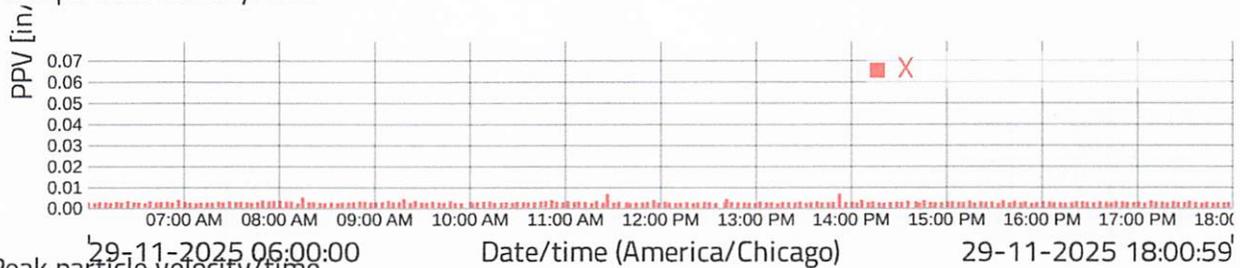
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

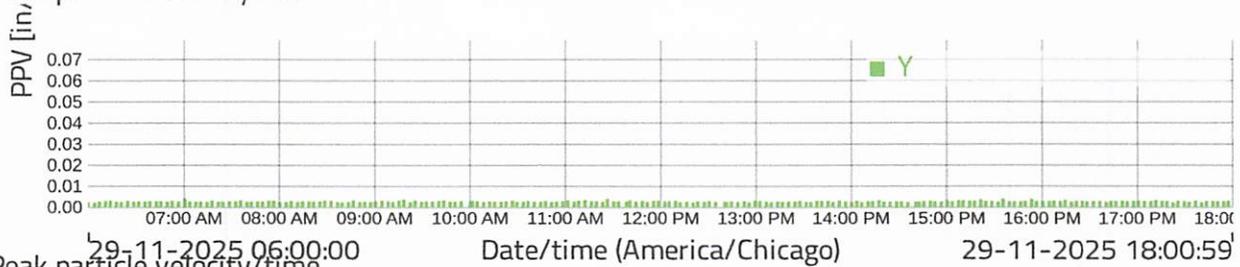


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 29, 2025 11:28:59	x	0.007	32.0
Nov. 29, 2025 07:01:59	y	0.004	1.0
Nov. 29, 2025 11:04:23	z	0.024	32.0

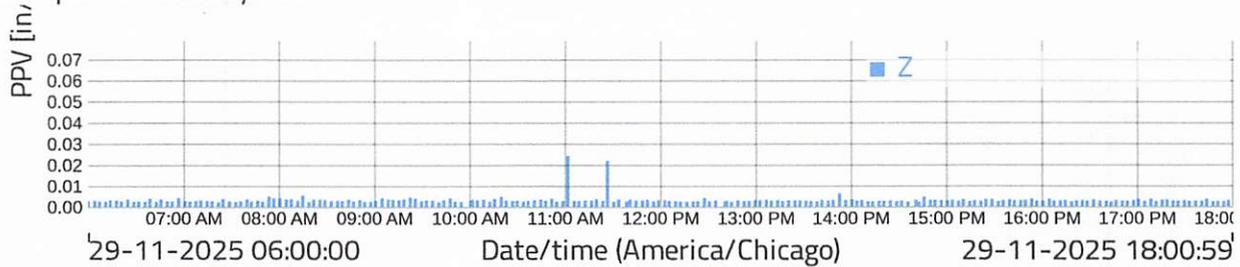
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time

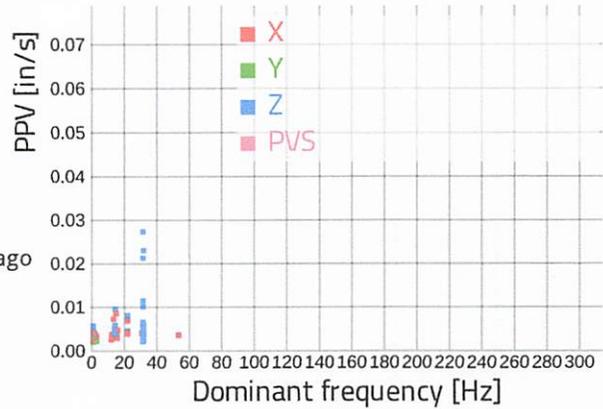


Project: LEOPARDO
 Measuring point: 507 S BLVD
 (SAPUGU)



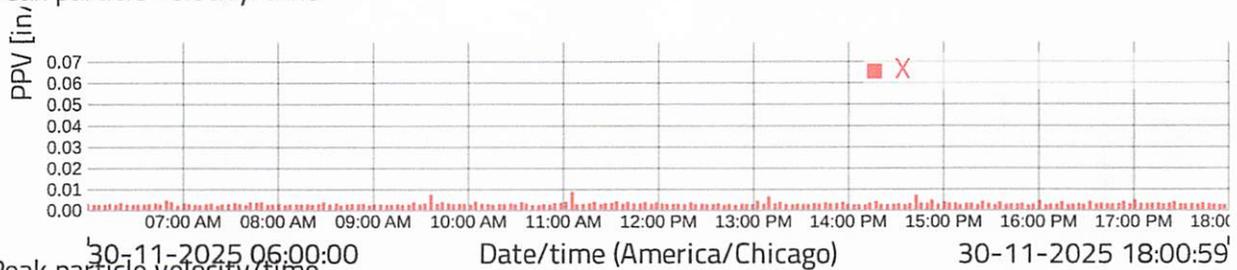
Calculate PPA (Peak particle acceleration) Off
 Evaluation type Unspecified
 Threshold for measurement storage 0.02 in/s
 PPV flat line threshold 0.5 in/s
 Guideline ISEE 250Hz
 Measuring interval 6 seconds
 Storage below threshold interval 60 seconds
 Store values below threshold On
 Timezone America/Chicago
 Calculate VDV (Vibration Dose Value) Off
 Calculate PVS (Peak Vector Sum) Off
 Calculate PPV (Peak particle velocity) On

Peak particle velocity/frequency

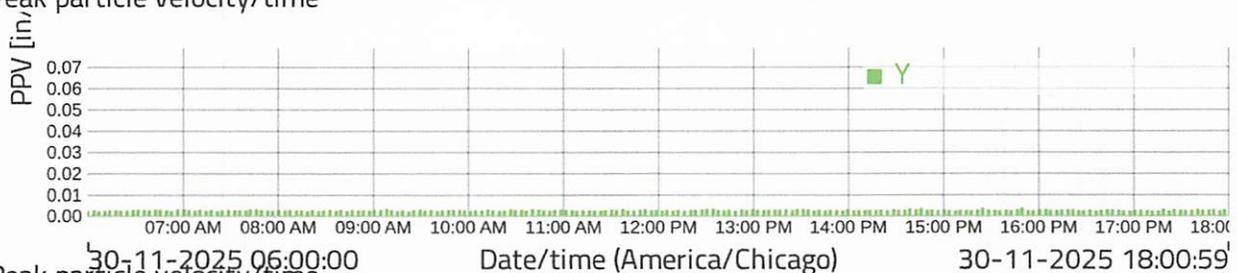


Peak readings Time	axis	PPV(in/sec)	Freq (Hz)
Nov. 30, 2025 11:07:59	x	0.008	15.5
Nov. 30, 2025 15:49:59	y	0.003	1.0
Nov. 30, 2025 07:48:23	z	0.027	32.0

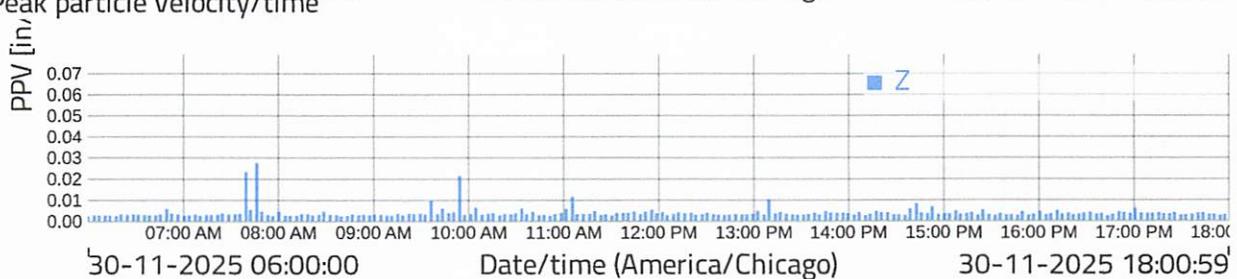
Peak particle velocity/time



Peak particle velocity/time



Peak particle velocity/time



SN: 3806 v3.22
Date: 11/24/2025 **Time:** 06:01:00
Event: 117
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.073	0.045	0.153
FREQ (Hz)	500.0	166.7	125.0
Peak Air Pressure:	107 db		

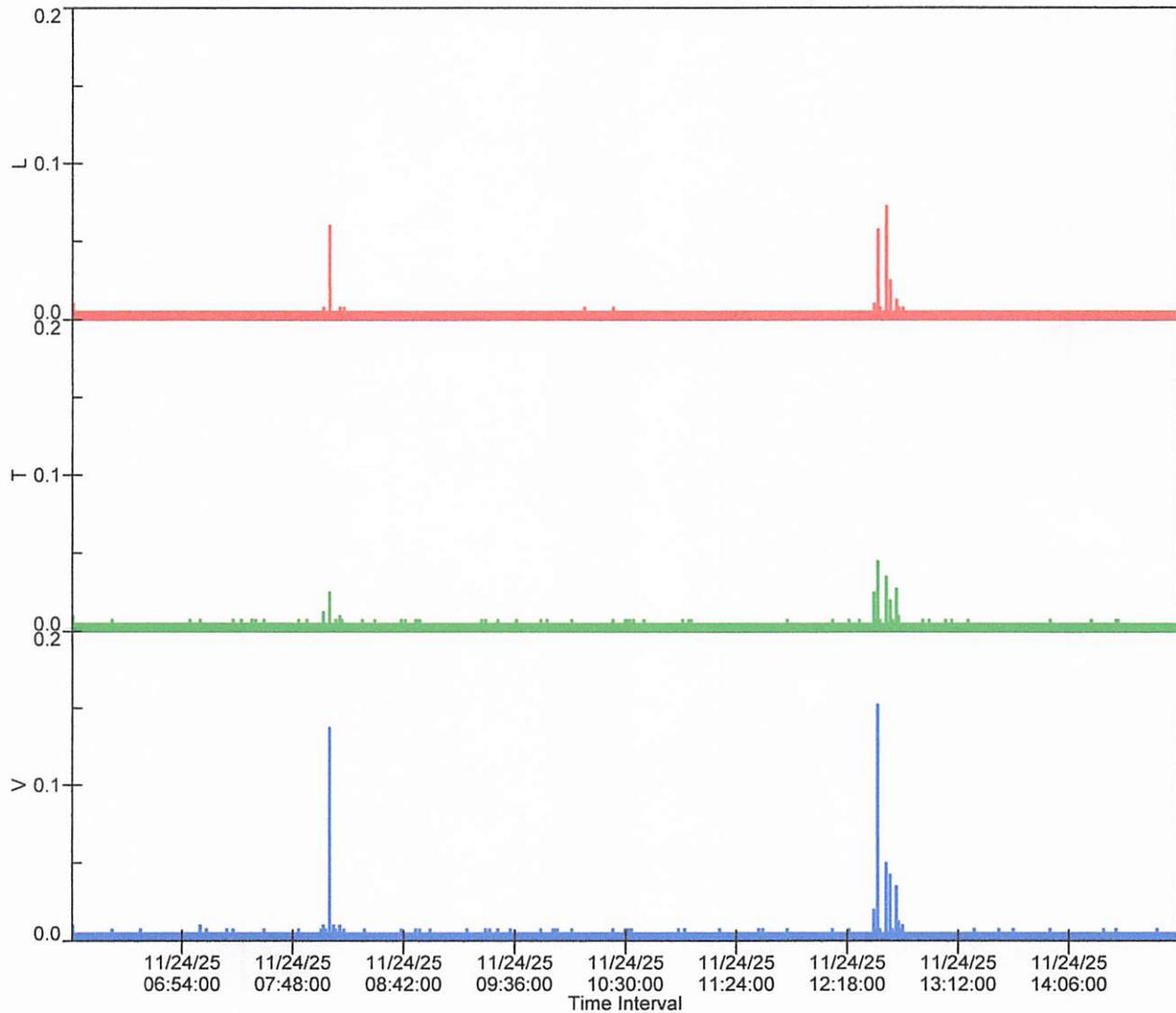
Recording Time: 539 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 117

Record Max PPV: 0.153 in/s Record Max DB: 107 db



SN: 3806 v3.22
Date: 11/24/2025 **Time:** 15:05:00
Event: 118
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

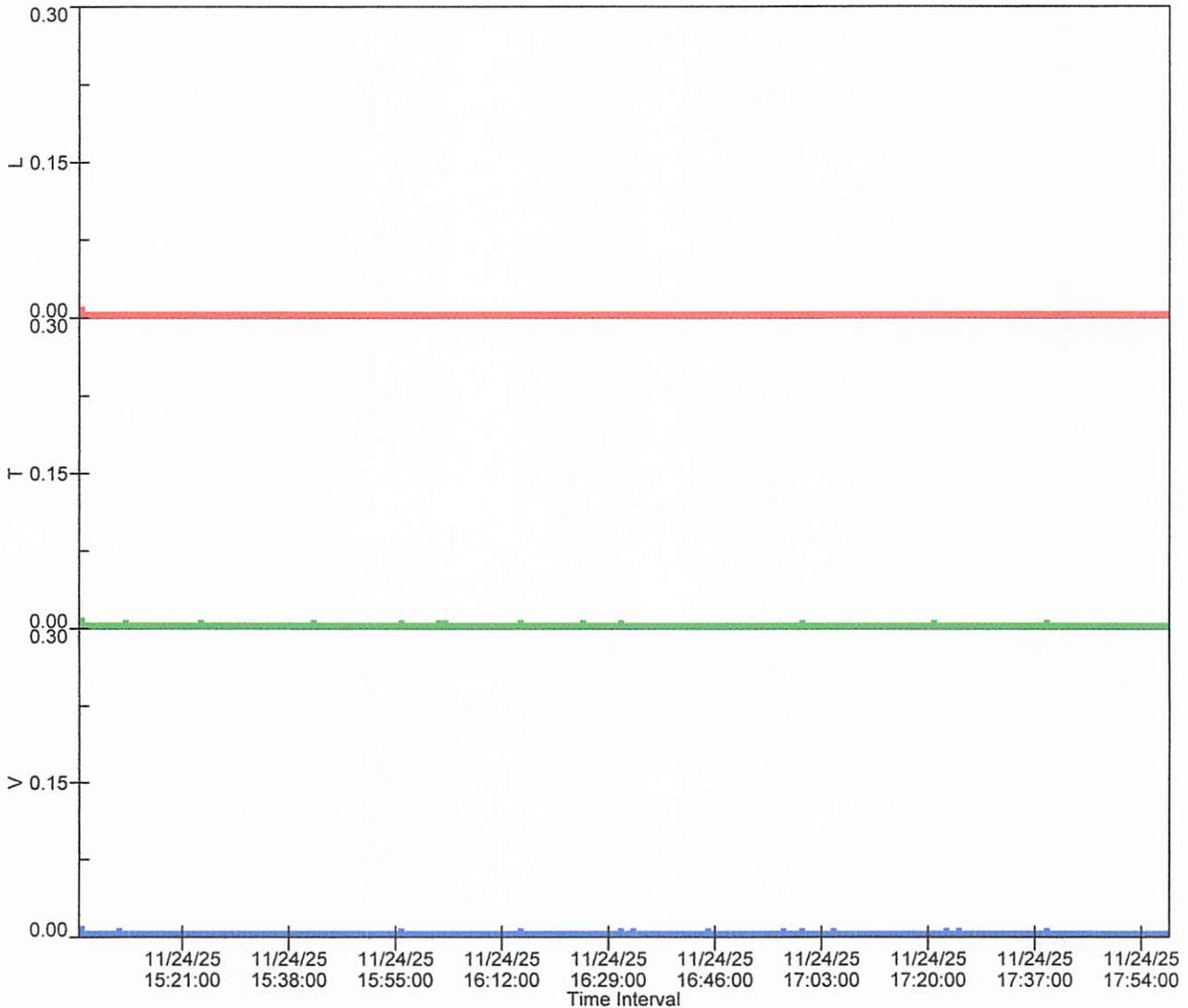
	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	2.9	.3
Peak Air Pressure: 87 db			
Recording Time:	174 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 118

Record Max PPV: 0.010 in/s Record Max DB: 87 db



SN: 3806 v3.22
Date: 11/25/2025 **Time:** 06:01:00
Event: 119
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

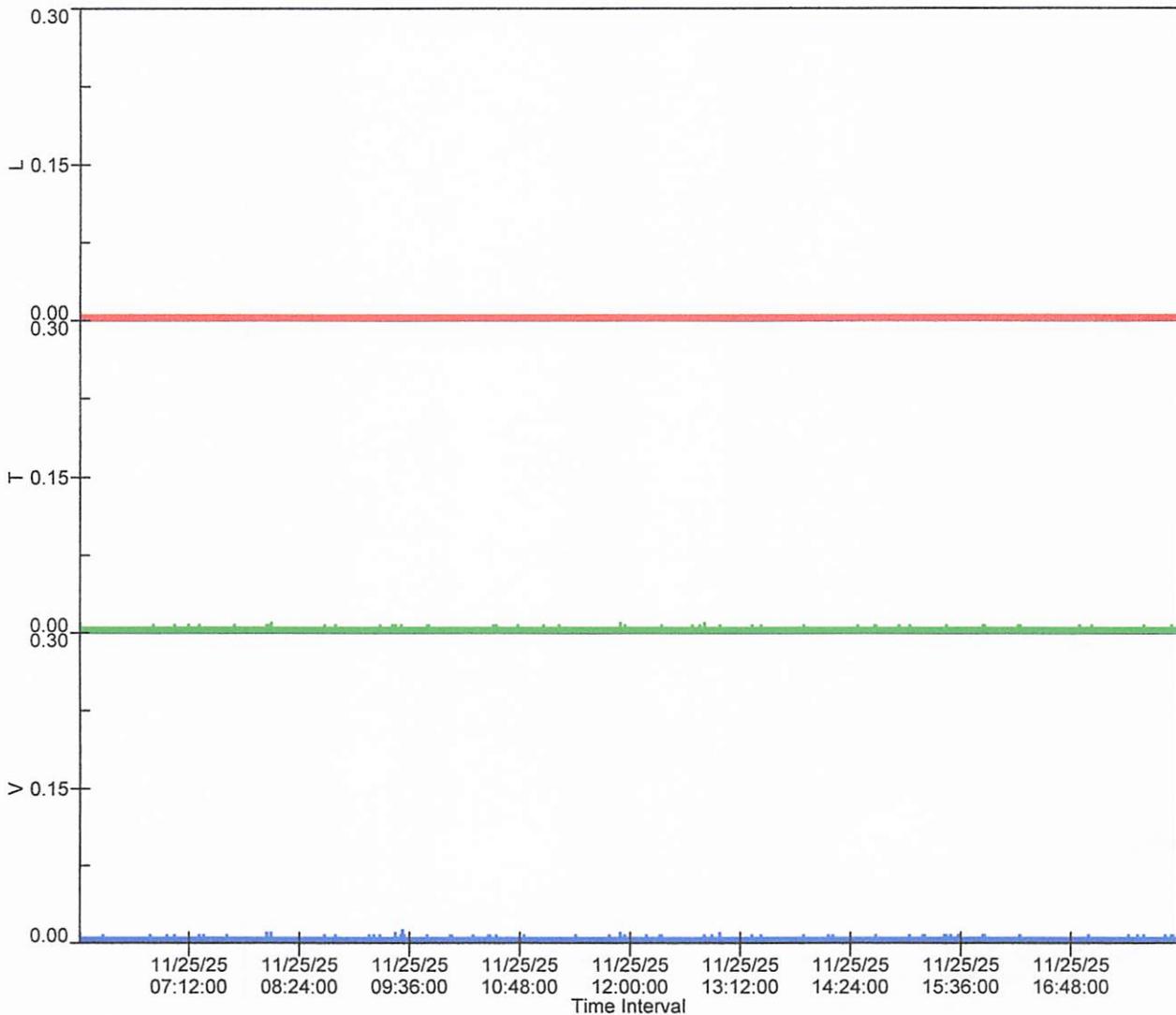
	L	T	V
PPV (in/s)	0.008	0.010	0.013
FREQ (Hz)	.3	3.6	55.6
Peak Air Pressure:	87 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 119

Record Max PPV: 0.013 in/s Record Max DB: 87 db



SN: 3806 v3.22
Date: 11/26/2025 **Time:** 06:01:00
Event: 120
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

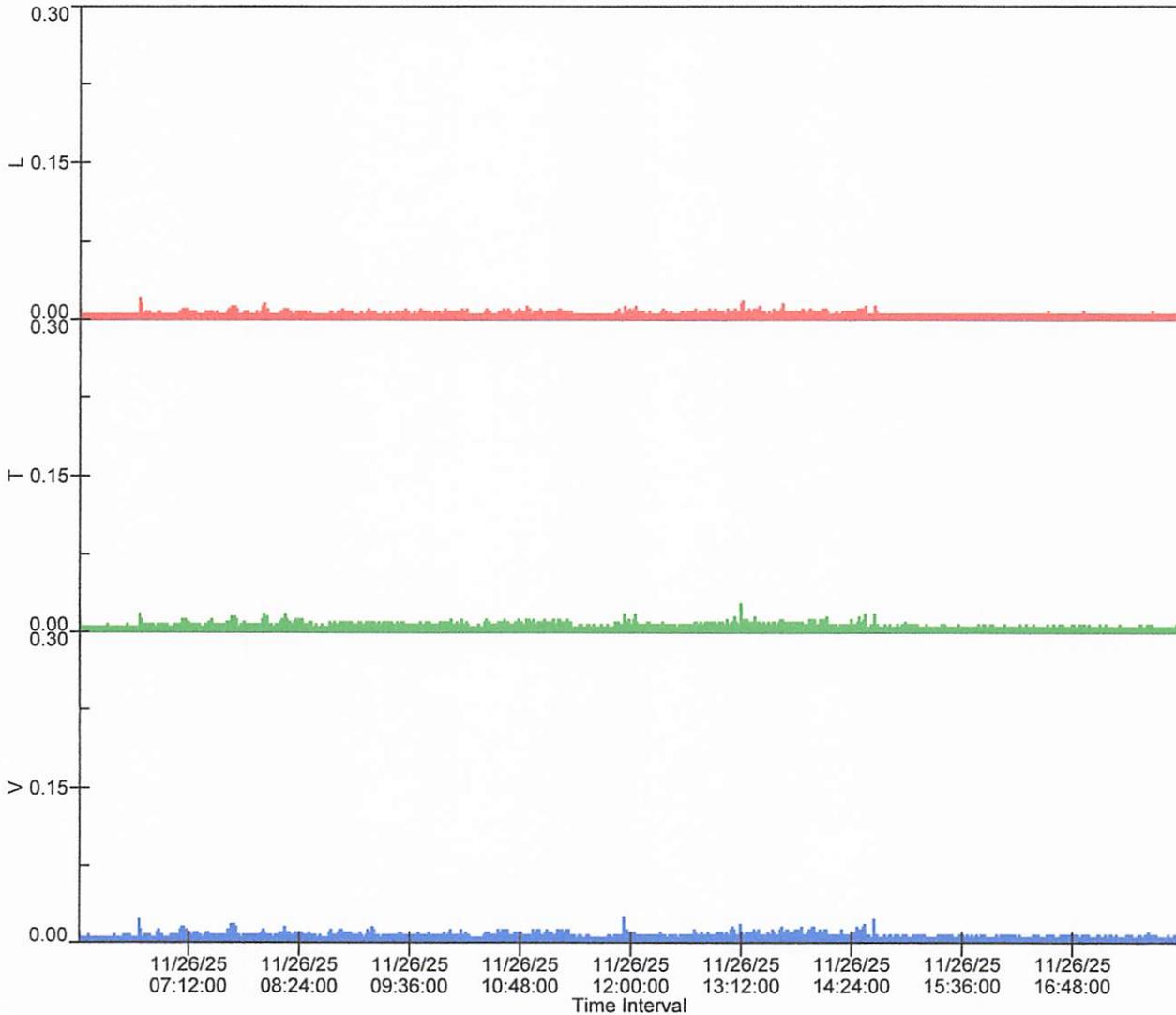
	L	T	V
PPV (in/s)	0.020	0.028	0.025
FREQ (Hz)	22.7	19.2	45.5
Peak Air Pressure:	98 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 120

Record Max PPV: 0.028 in/s Record Max DB: 98 db



SN: 3806 v3.22
Date: 11/27/2025 **Time:** 06:01:00
Event: 121
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.010	0.013
FREQ (Hz)	.3	2.9	.2
Peak Air Pressure:	101 db		

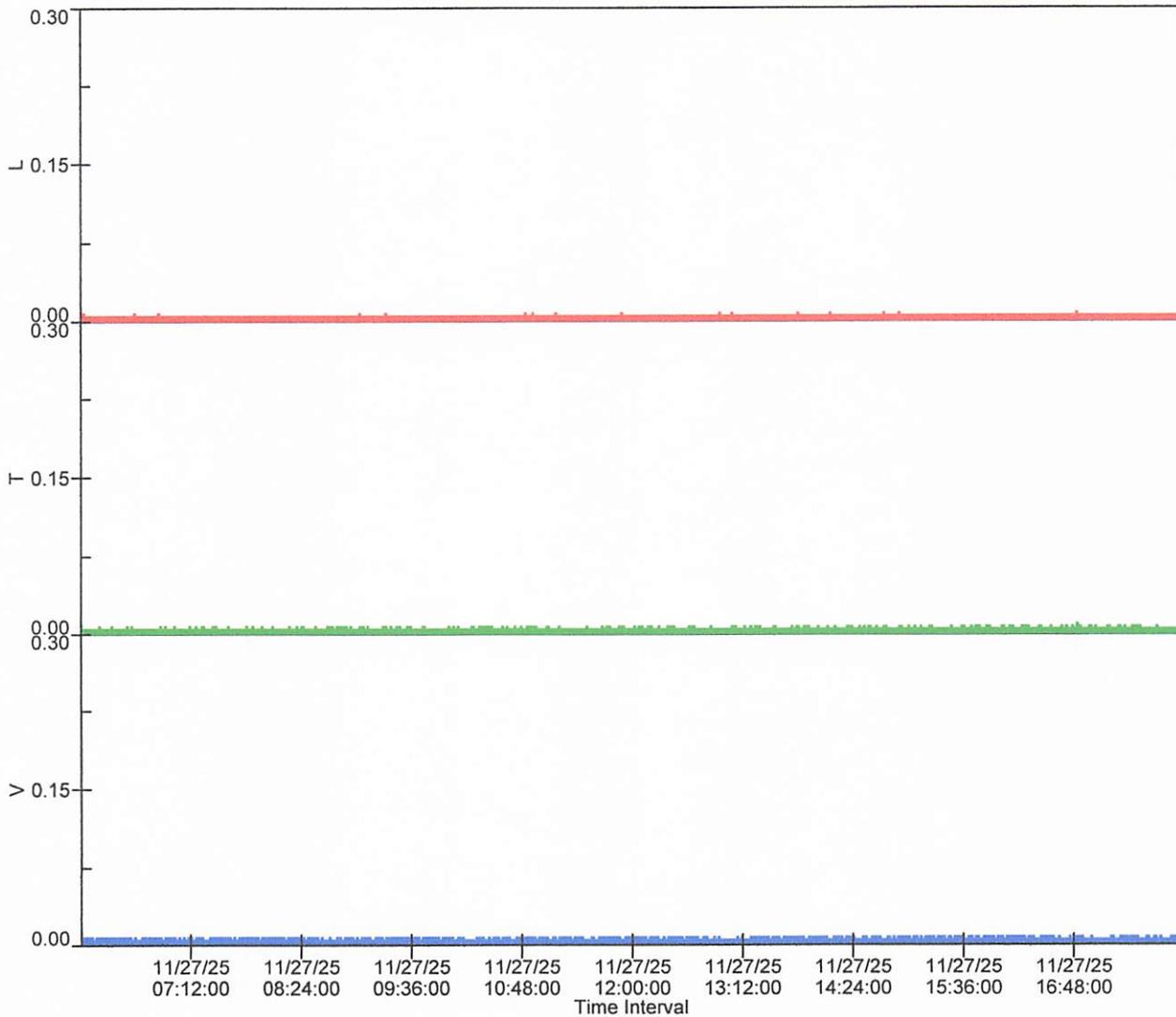
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 121

Record Max PPV: 0.013 in/s Record Max DB: 101 db



SN: 3806 v3.22
Date: 11/28/2025 **Time:** 06:01:00
Event: 122
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

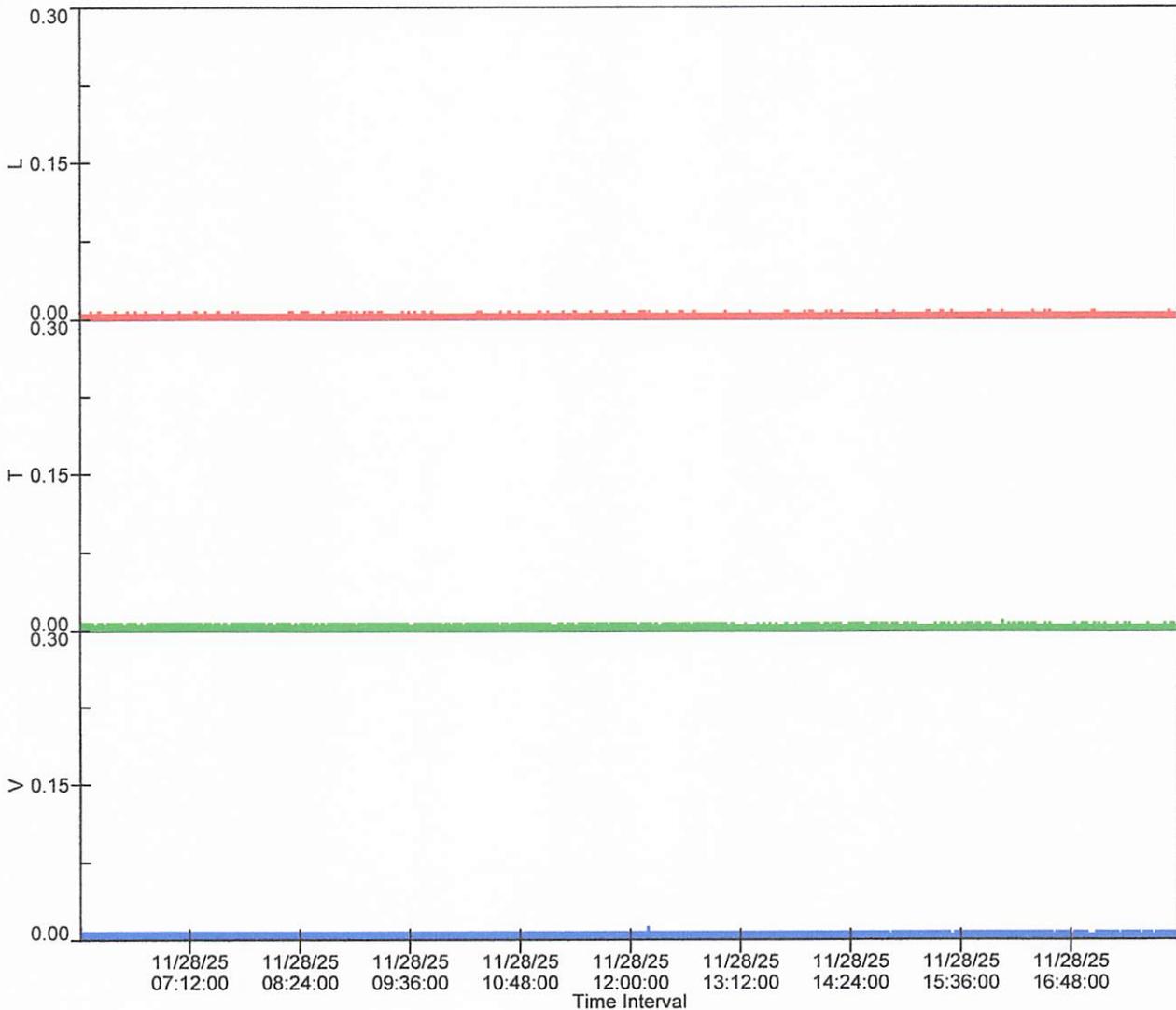
	L	T	V
PPV (in/s)	0.010	0.010	0.013
FREQ (Hz)	.3	2.5	.2
Peak Air Pressure:	101 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 122

Record Max PPV: 0.013 in/s Record Max DB: 101 db



SN: 3806 v3.22
Date: 11/29/2025 **Time:** 06:01:00
Event: 123
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

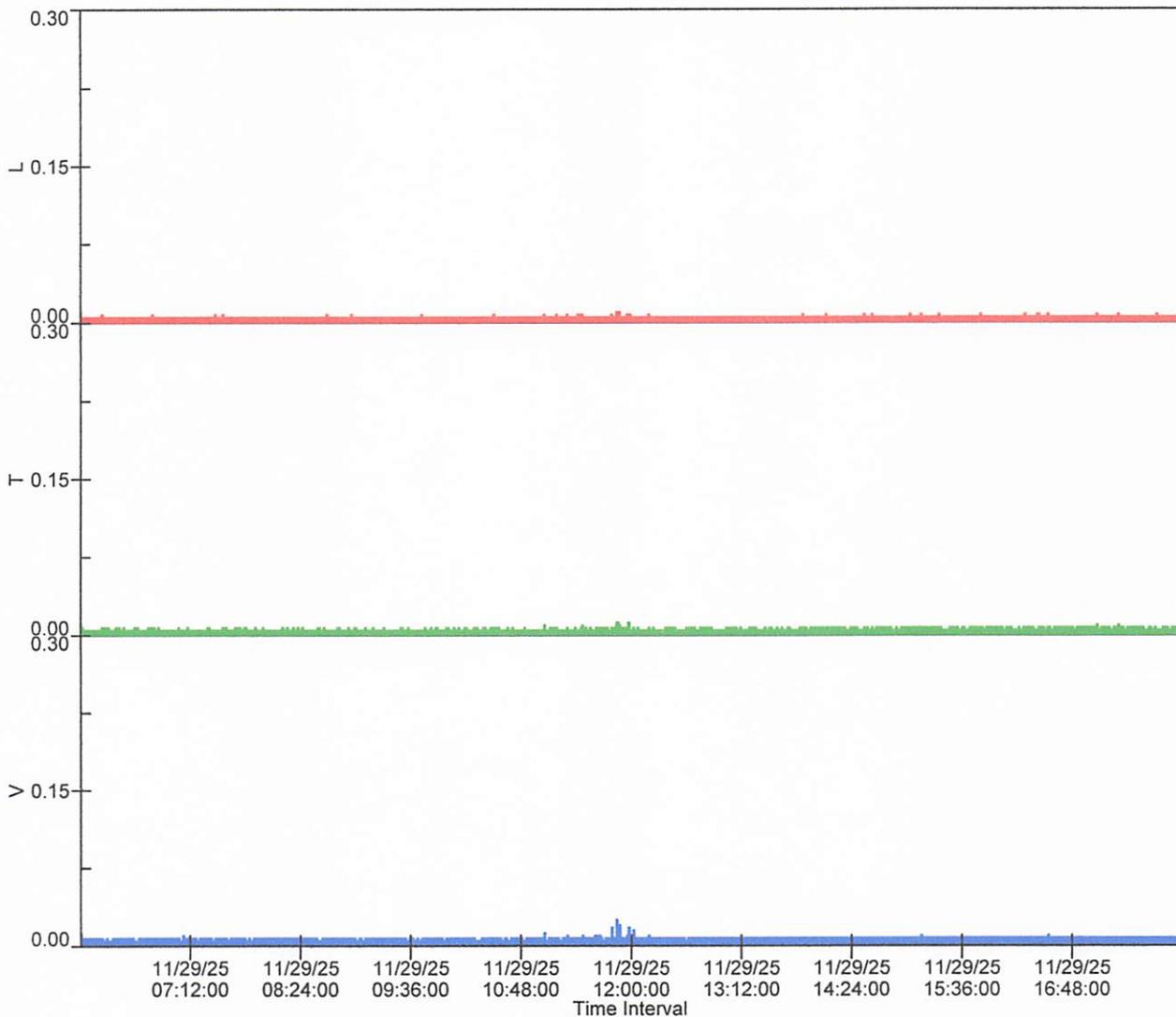
	L	T	V
PPV (in/s)	0.010	0.013	0.025
FREQ (Hz)	.3	33.3	50.0
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 123

Record Max PPV: 0.025 in/s Record Max DB: 79 db



SN: 3806 v3.22
Date: 11/30/2025 **Time:** 06:01:00
Event: 124
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

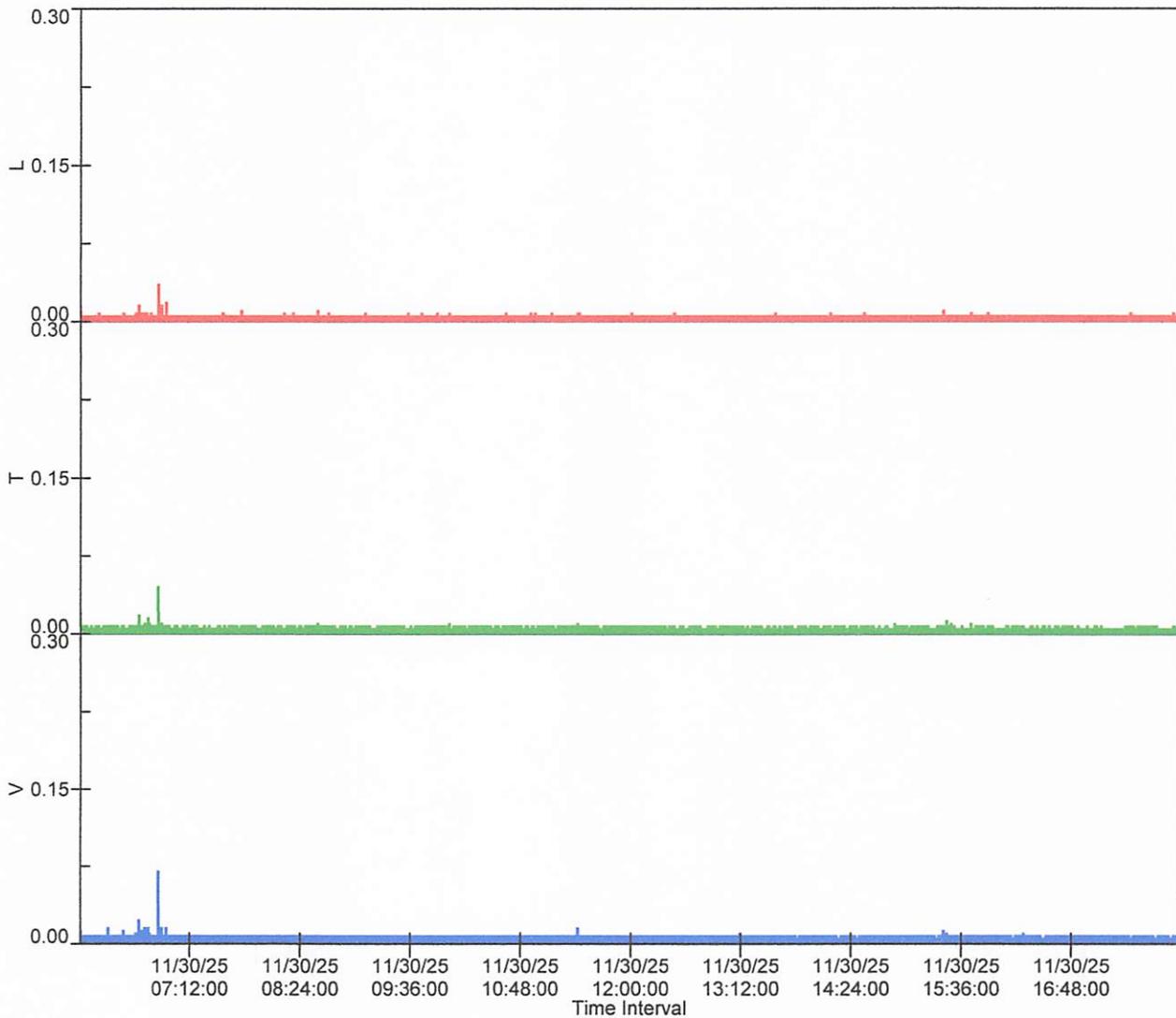
	L	T	V
PPV (in/s)	0.035	0.045	0.070
FREQ (Hz)	71.4	38.5	71.4
Peak Air Pressure:	82 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 124

Record Max PPV: 0.070 in/s Record Max DB: 82 db



SN: 3806 v3.22
Date: 12/01/2025 **Time:** 06:01:00
Event: 125
Client: LEOPARDO
Operation: CONSTRUCTION
Location: 504 S BLVD
Distance: 15.
Operator: CTI INC
Comment: 424 S BLVD

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.030	0.043	0.070
FREQ (Hz)	35.7	45.5	26.3
Peak Air Pressure:	103 db		
Recording Time:	268 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/21/2025
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3806 Event: 125

Record Max PPV: 0.070 in/s Record Max DB: 103 db

