

NSP Phase 2 Hibbard Park Project  
Wilmette, Illinois

**VIBRATION  
MONITORING  
REPORT-8**

Mike Warning  
V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517

May 24, 2021

Cti



4262 Old Grand Ave  
Suite 102  
Chicago, IL 60031

May 24, 2021

Mike Warning  
V3 Companies  
7325 Janes Avenue  
Woodridge, IL 60517

RE: **Report: 8** - *Ground Vibration Monitoring for the Wilmette NSP Phase 2 Hibbard Park Project located in Wilmette, Illinois.*

Mr. Warning,

Construction Testing and Instrumentation, Inc. (CTI) have prepared this vibration monitoring report to evaluate vibrations during all construction activities. This report summarizes the results of ground vibration monitoring for three seismographs, all located around the surrounding project site (see attached location diagram). This summary report covers the monitoring period from **May 10, 2021 through May 24, 2021.**

The vibration equipment at the site are Geosonic seismographs that have the capacity to record peak particle velocity (PPV) and frequency (Hertz). The maximum allowable peak particle velocity is 0.50 inches per second (IPS), which is based upon the specifications established by the U.S Bureau of Mines (USBM) and a typical threshold for construction vibration monitoring. 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 have been below the 0.50-inch per second threshold limit. The maximum PPV for the monitoring period are below.

May 11, 2021	<b>491 Skokie Boulevard</b>	Unit #3817	T	0.143 (in/s)
May 10, 2021	<b>3005 Wilmette Avenue</b>	Unit #3559	L	0.110 (in/s)
May 22, 2021	<b>3000 Hill Street</b>	Unit #3734	V	0.490 (in/s)


V- Vertical Vibration  
T- Transversal Vibration  
L- Longitudinal Vibration

Sincerely,

Daniel W. McCarthy  
Senior Instrumentation Engineer

## Hibbard Park Seismograph Location Diagram



 Seismograph Location

**SN:** 3817 v3.22  
**Date:** 05/10/2021 **Time:** 09:50:00  
**Event:** 90  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.098	0.063	0.110
FREQ (Hz)	20.0	14.7	17.2
Peak Air Pressure:	78 db		

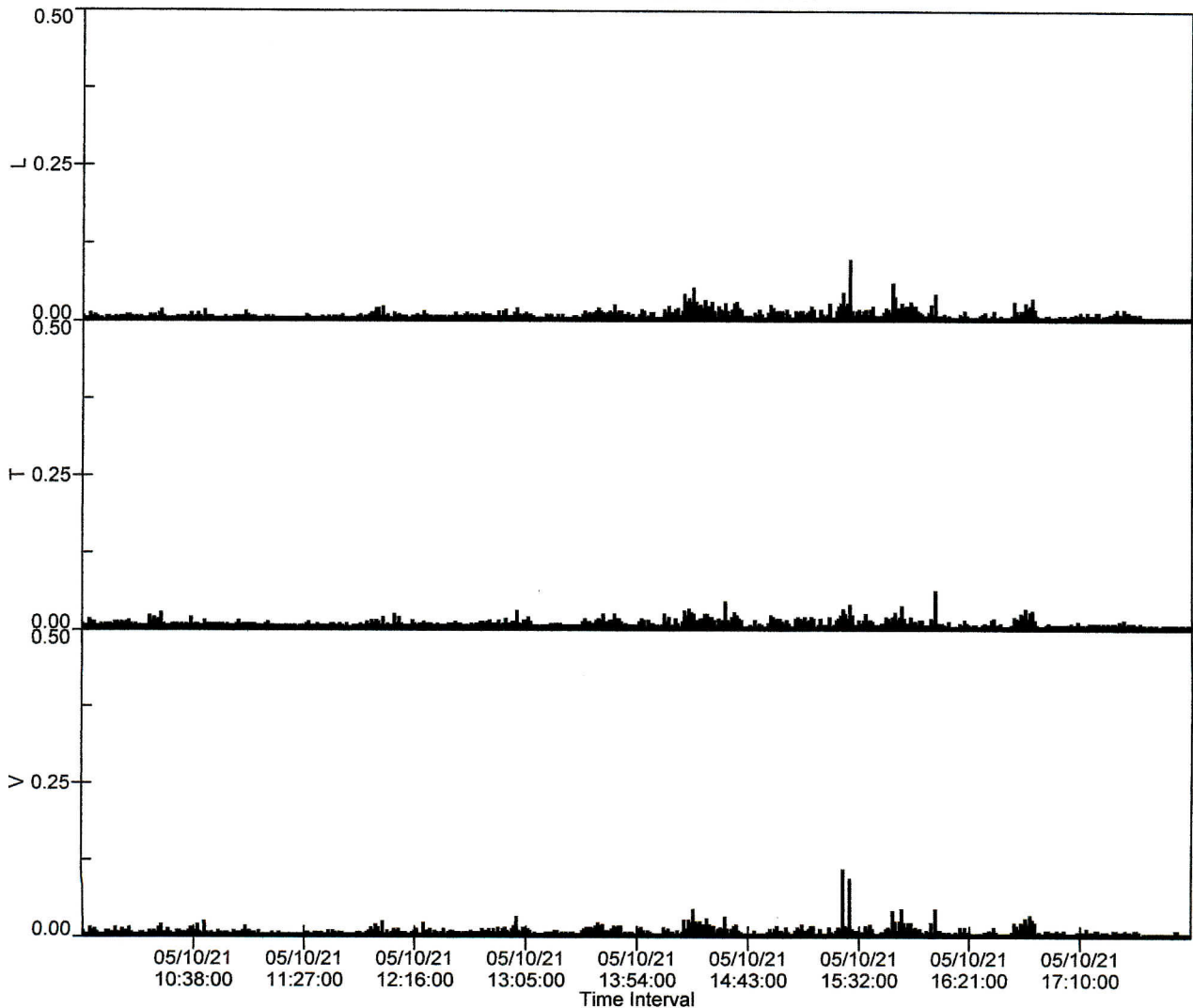
**Recording Time:** 489 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 90

Record Max PPV: 0.110 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/11/2021 **Time:** 06:01:00  
**Event:** 91  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.115	0.143	0.123
<b>FREQ (Hz)</b>	20.8	16.1	23.8
<b>Peak Air Pressure:</b>	78 db		

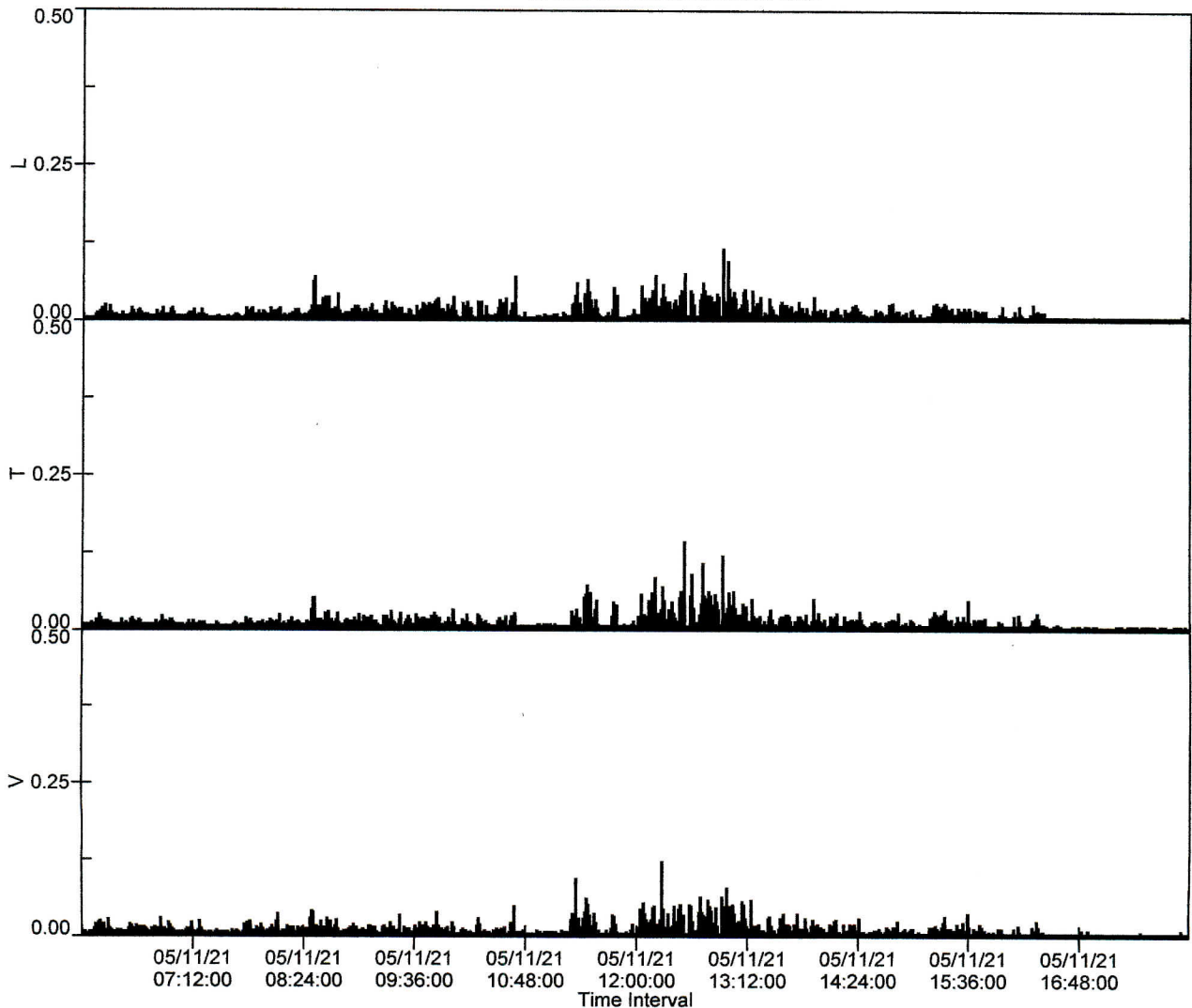
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 91

Record Max PPV: 0.143 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/12/2021 **Time:** 06:01:00  
**Event:** 92  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.048	0.065	0.078
<b>FREQ (Hz)</b>	19.2	18.5	45.5
<b>Peak Air Pressure:</b>	79 db		

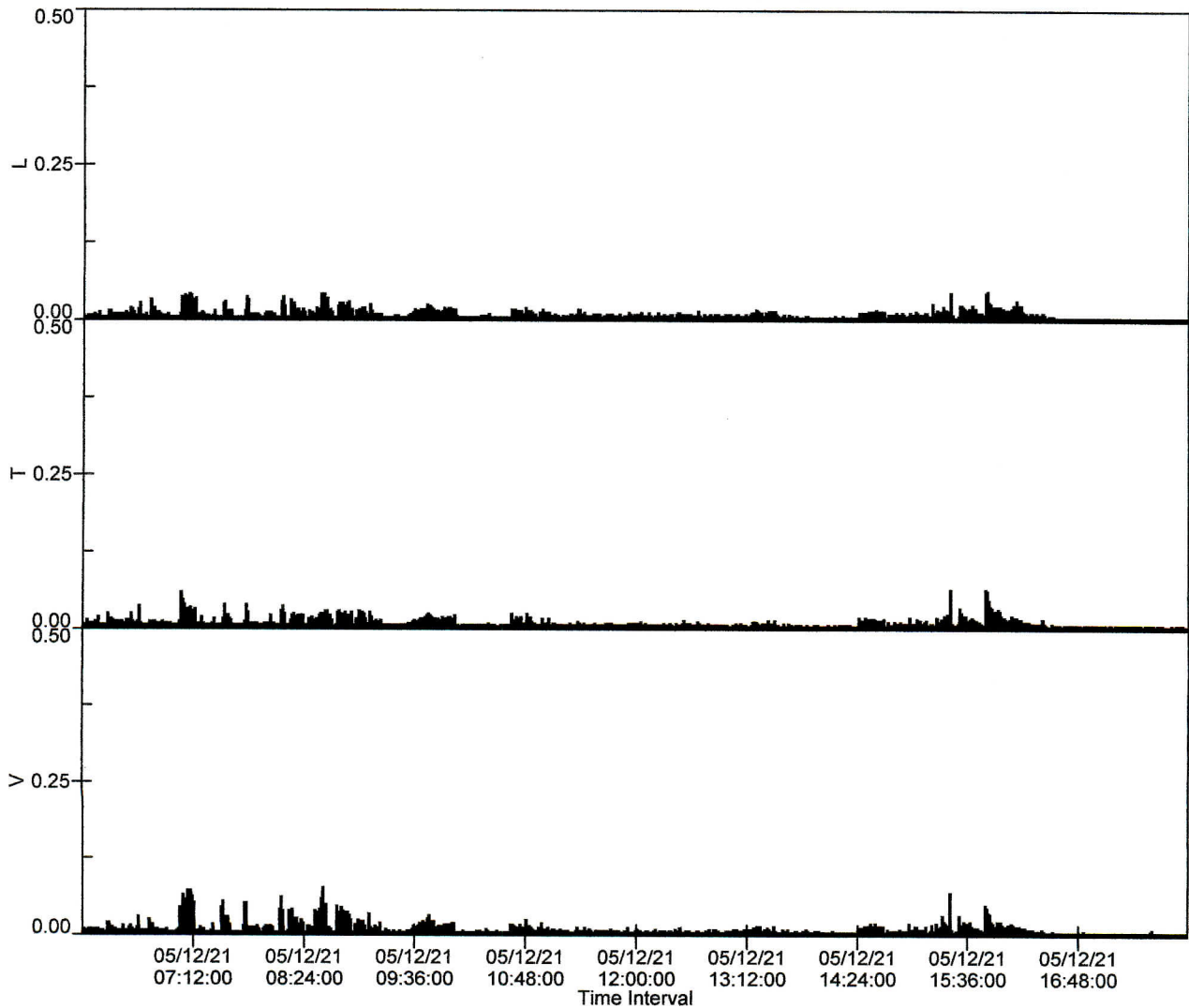
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 92

Record Max PPV: 0.078 in/s Record Max DB: 79 db



**SN:** 3817 v3.22  
**Date:** 05/13/2021 **Time:** 06:01:00  
**Event:** 93  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.070	0.065	0.058
<b>FREQ (Hz)</b>	29.4	19.2	27.8
<b>Peak Air Pressure:</b>	78 db		

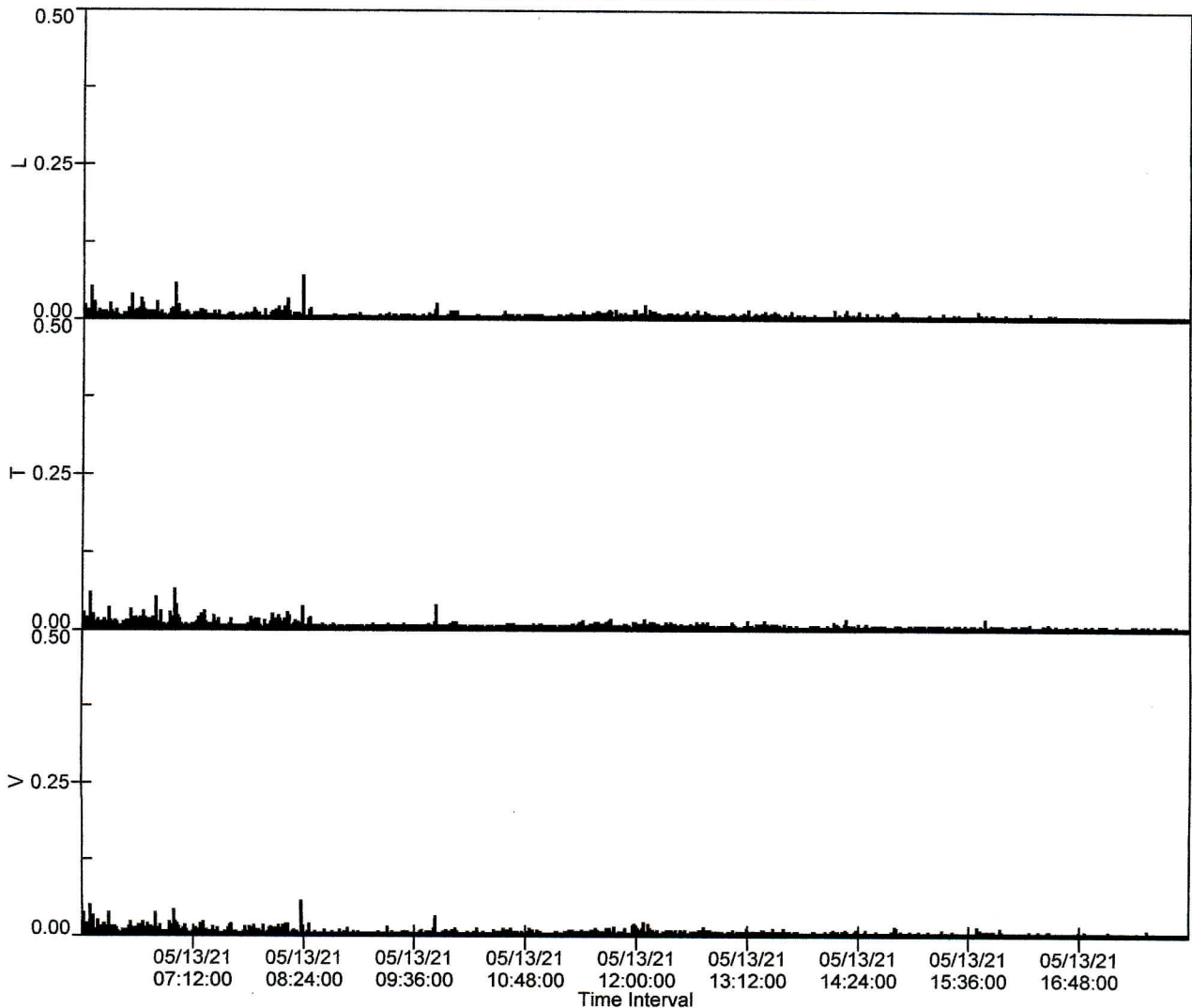
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 93

Record Max PPV: 0.070 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/14/2021 **Time:** 06:01:00  
**Event:** 94  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.078	0.098	0.125
<b>FREQ (Hz)</b>	16.1	16.1	25.0
<b>Peak Air Pressure:</b>	79 db		

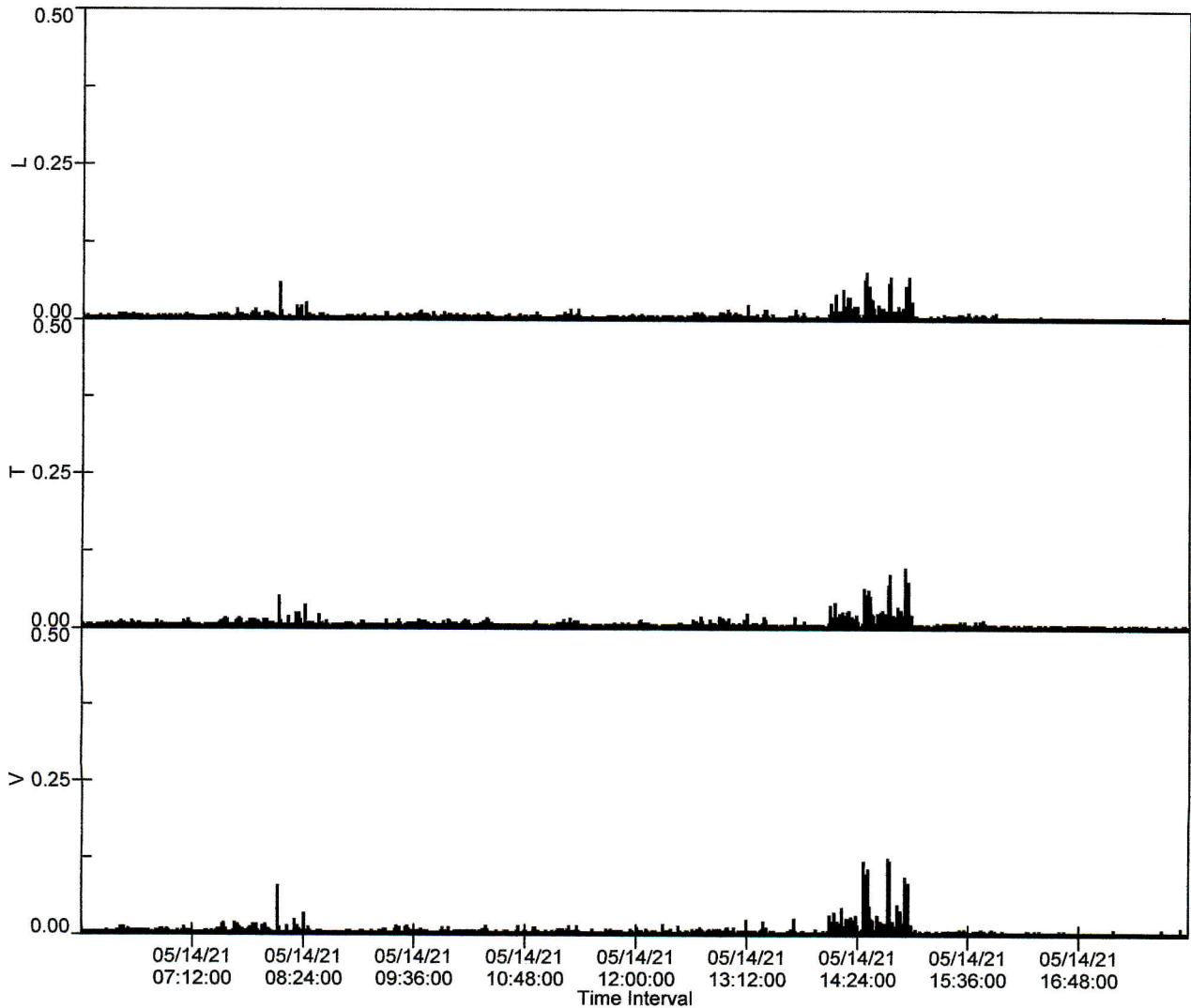
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 94

Record Max PPV: 0.125 in/s Record Max DB: 79 db





**SN:** 3817 v3.22  
**Date:** 05/15/2021 **Time:** 06:01:00  
**Event:** 95  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.043	0.058	0.043
<b>FREQ (Hz)</b>	17.9	17.2	15.2
<b>Peak Air Pressure:</b>	78 db		

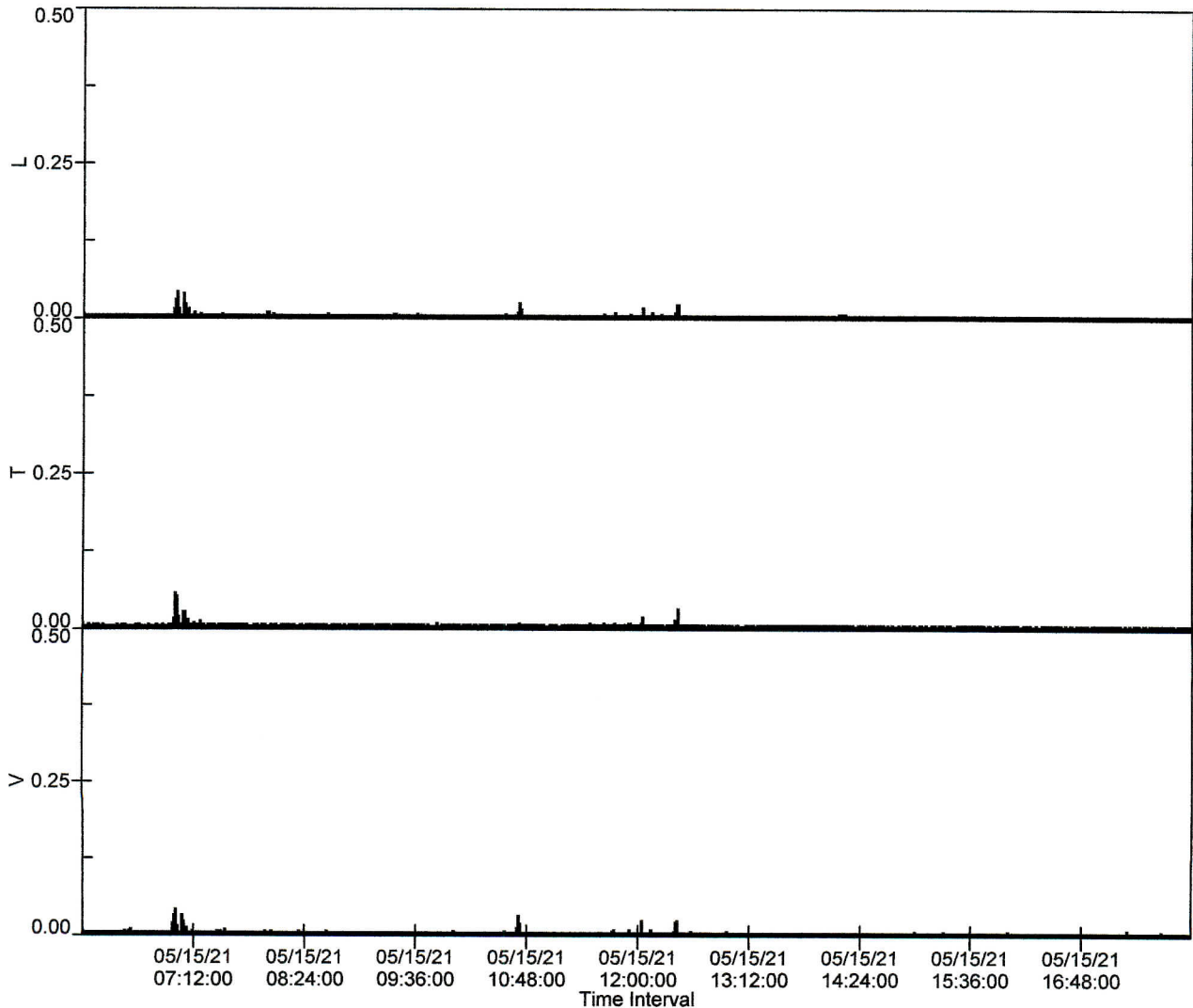
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 95

Record Max PPV: 0.058 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/16/2021 **Time:** 06:01:00  
**Event:** 96  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
PPV (in/s)	0.008	0.010	0.008
FREQ (Hz)	1.3	9.8	.3
Peak Air Pressure:	78 db		

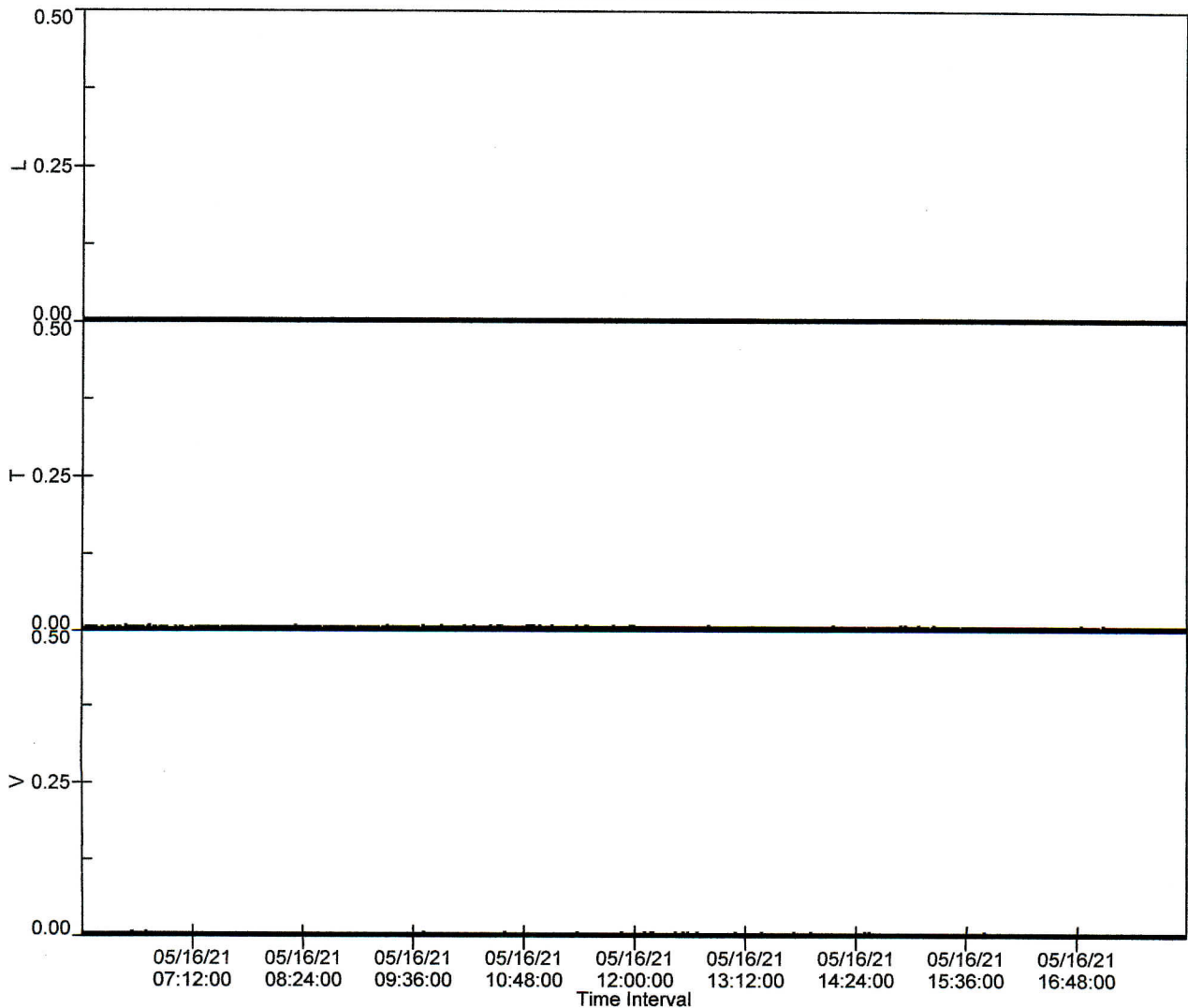
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 96

Record Max PPV: 0.010 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/17/2021 **Time:** 06:01:00  
**Event:** 97  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.028	0.038	0.023
<b>FREQ (Hz)</b>	13.5	16.1	12.8
<b>Peak Air Pressure:</b>	78 db		

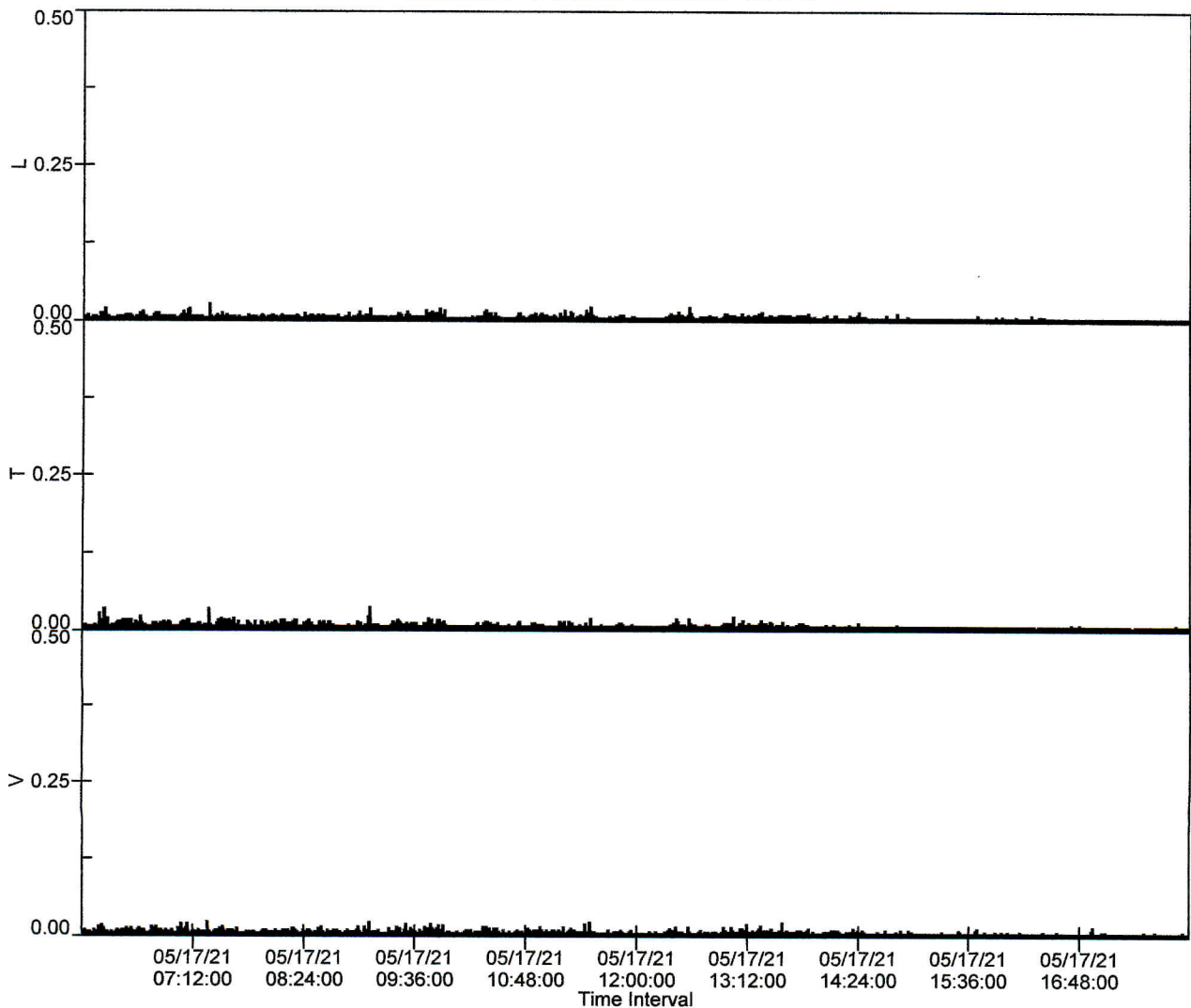
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 97

Record Max PPV: 0.038 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/18/2021 **Time:** 06:01:00  
**Event:** 98  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.025	0.025	0.038
<b>FREQ (Hz)</b>	16.1	16.1	21.7
<b>Peak Air Pressure:</b>	78 db		

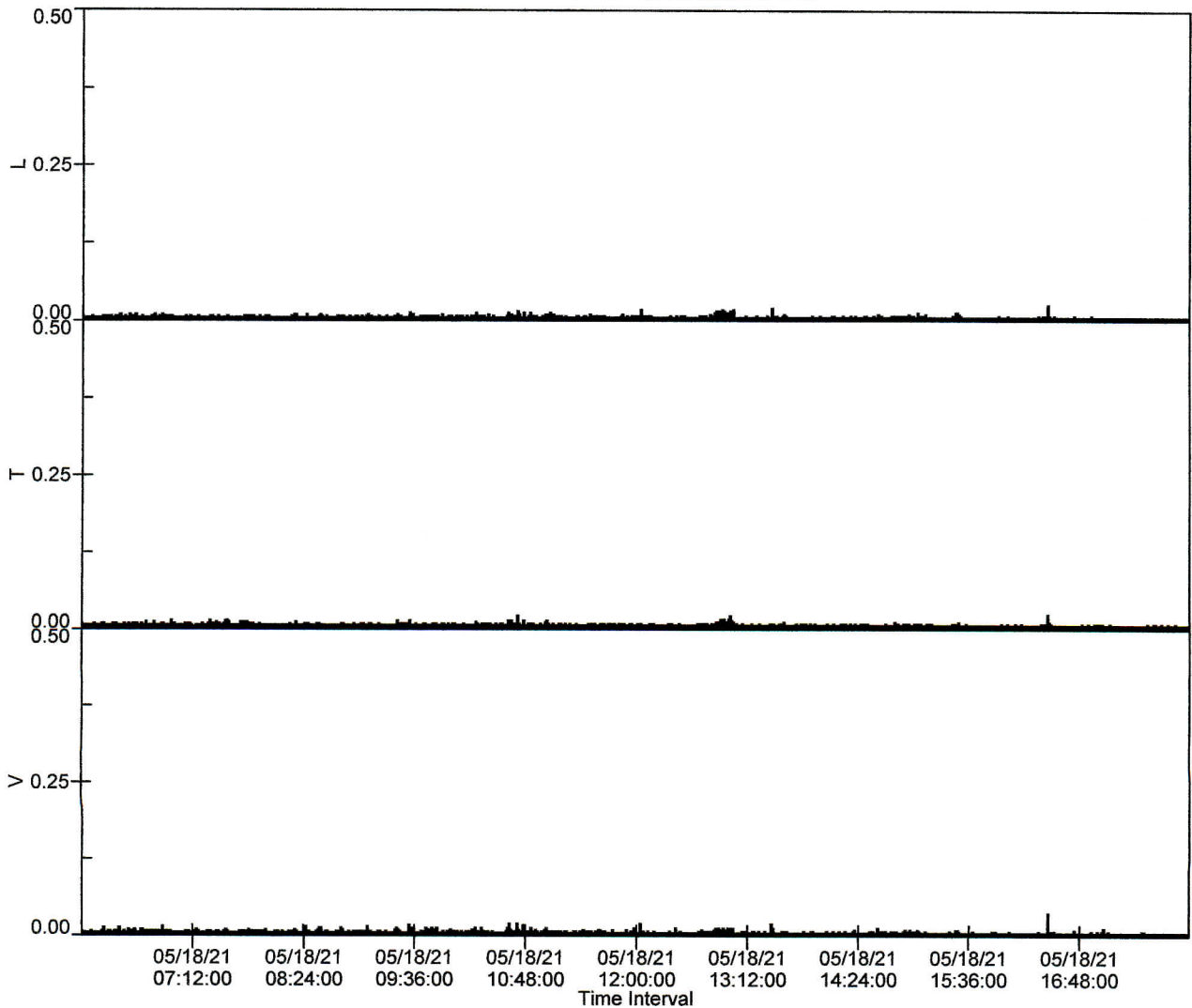
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 98

Record Max PPV: 0.038 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/19/2021 **Time:** 06:01:00  
**Event:** 99  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.045	0.038	0.063
<b>FREQ (Hz)</b>	19.2	15.6	22.7
<b>Peak Air Pressure:</b>	78 db		

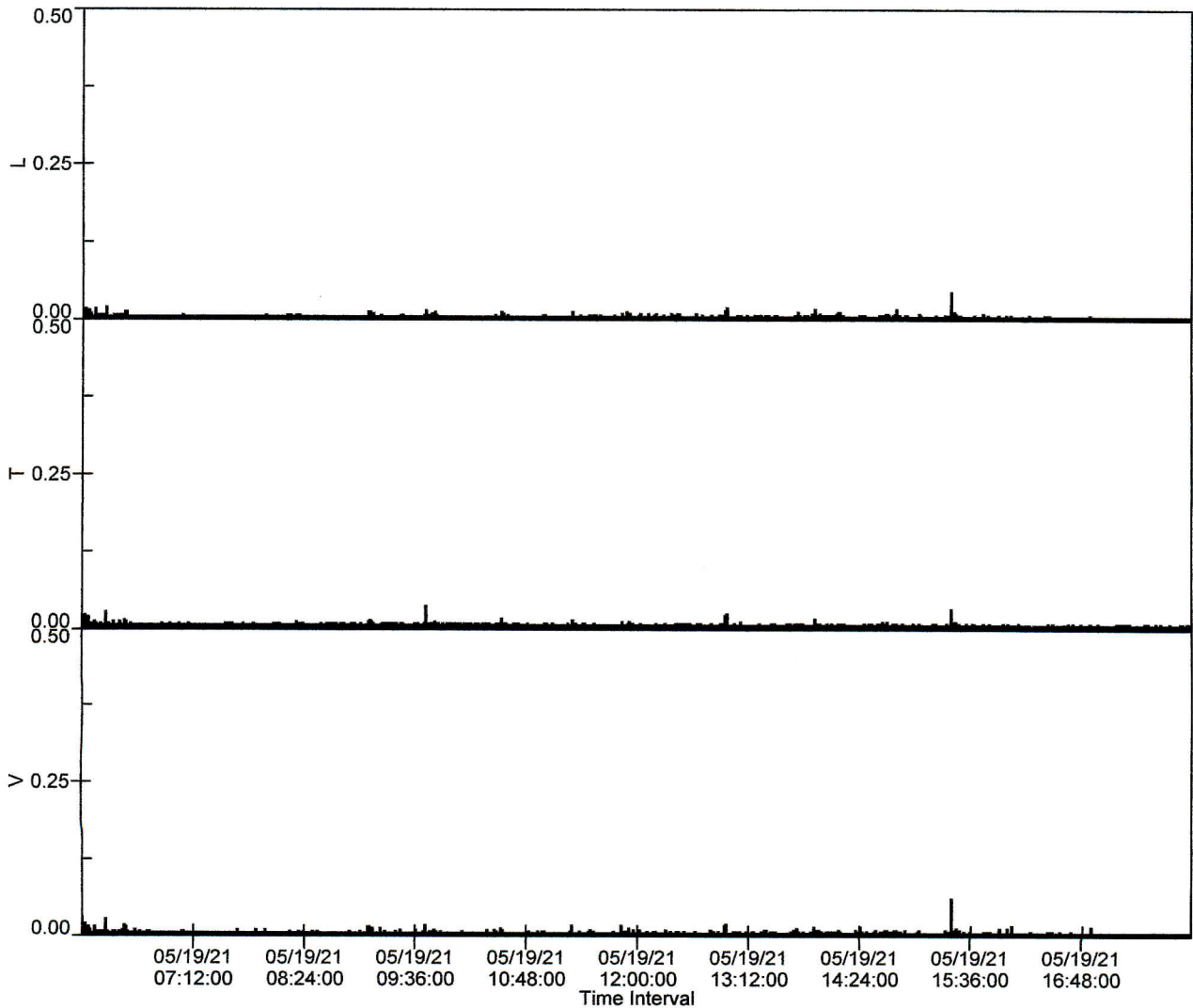
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 99

Record Max PPV: 0.063 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/20/2021 **Time:** 06:01:00  
**Event:** 100  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.040	0.023	0.033
<b>FREQ (Hz)</b>	17.9	18.5	17.9
<b>Peak Air Pressure:</b>	81 db		

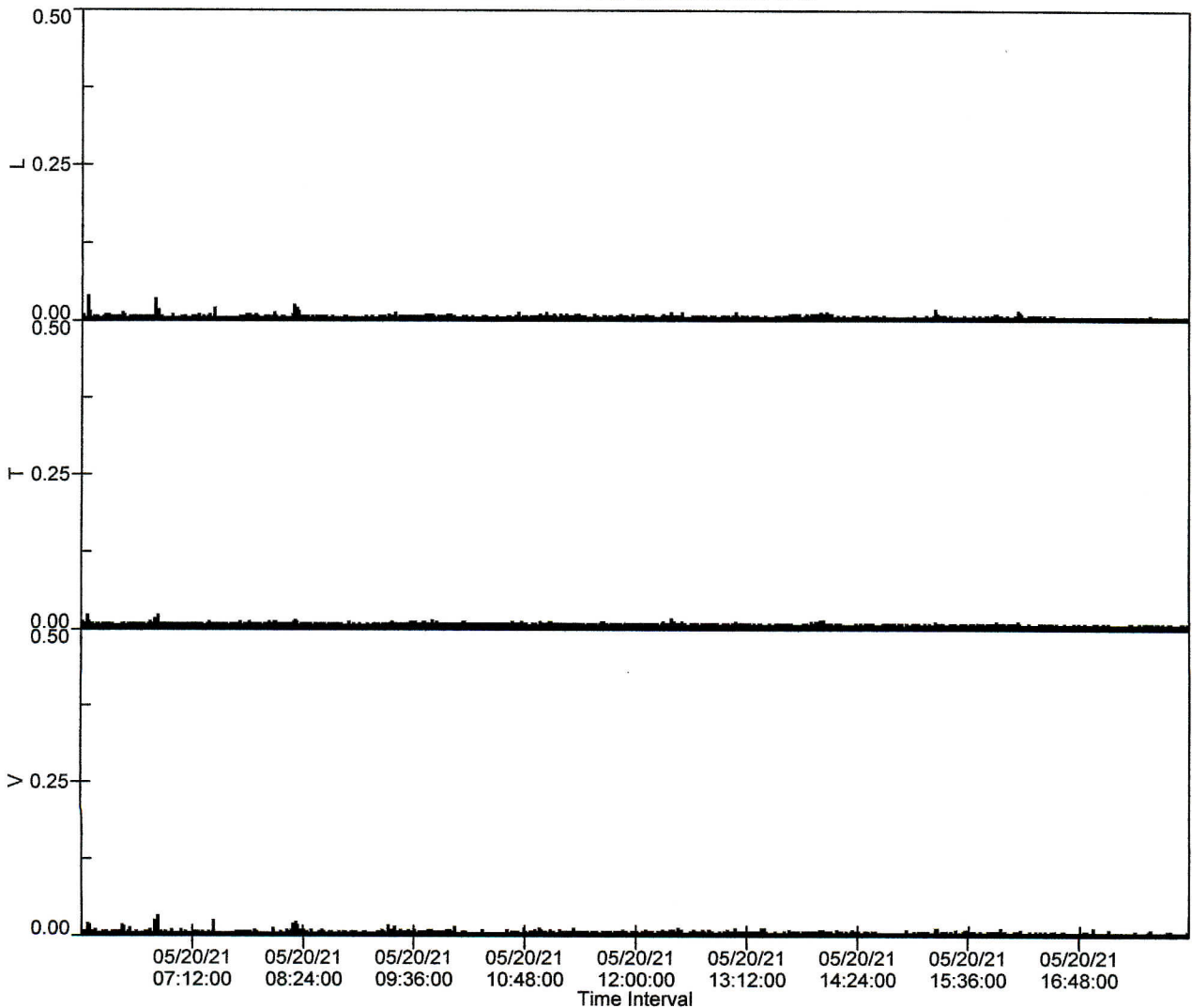
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 100

Record Max PPV: 0.040 in/s Record Max DB: 81 db



**SN:** 3817 v3.22  
**Date:** 05/21/2021 **Time:** 06:01:00  
**Event:** 101  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.040	0.025	0.028
<b>FREQ (Hz)</b>	14.7	17.9	10.4
<b>Peak Air Pressure:</b>	78 db		

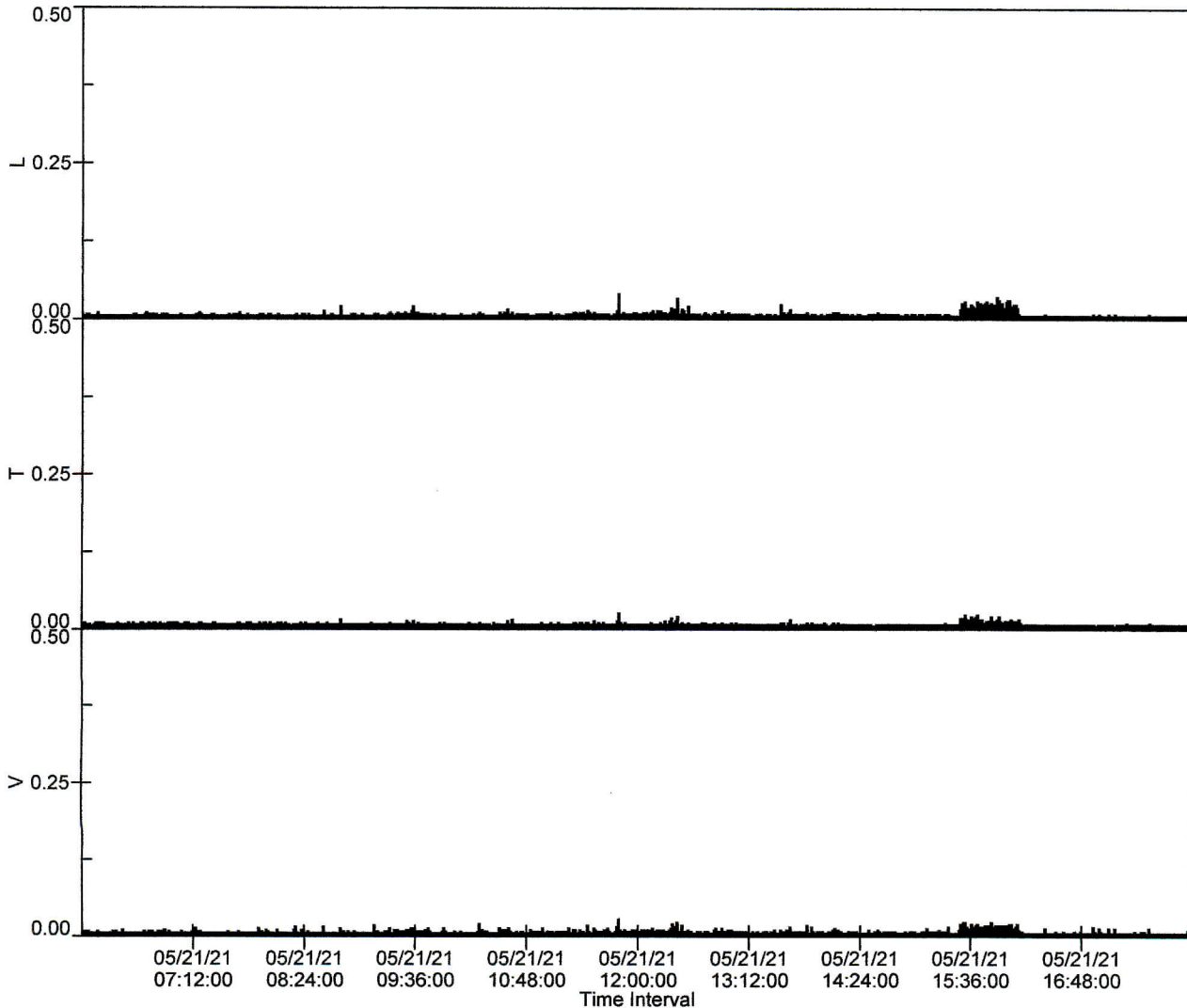
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 101

Record Max PPV: 0.040 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/22/2021 **Time:** 06:01:00  
**Event:** 102  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.025	0.020	0.023
<b>FREQ (Hz)</b>	29.4	10.6	9.8
<b>Peak Air Pressure:</b>	78 db		

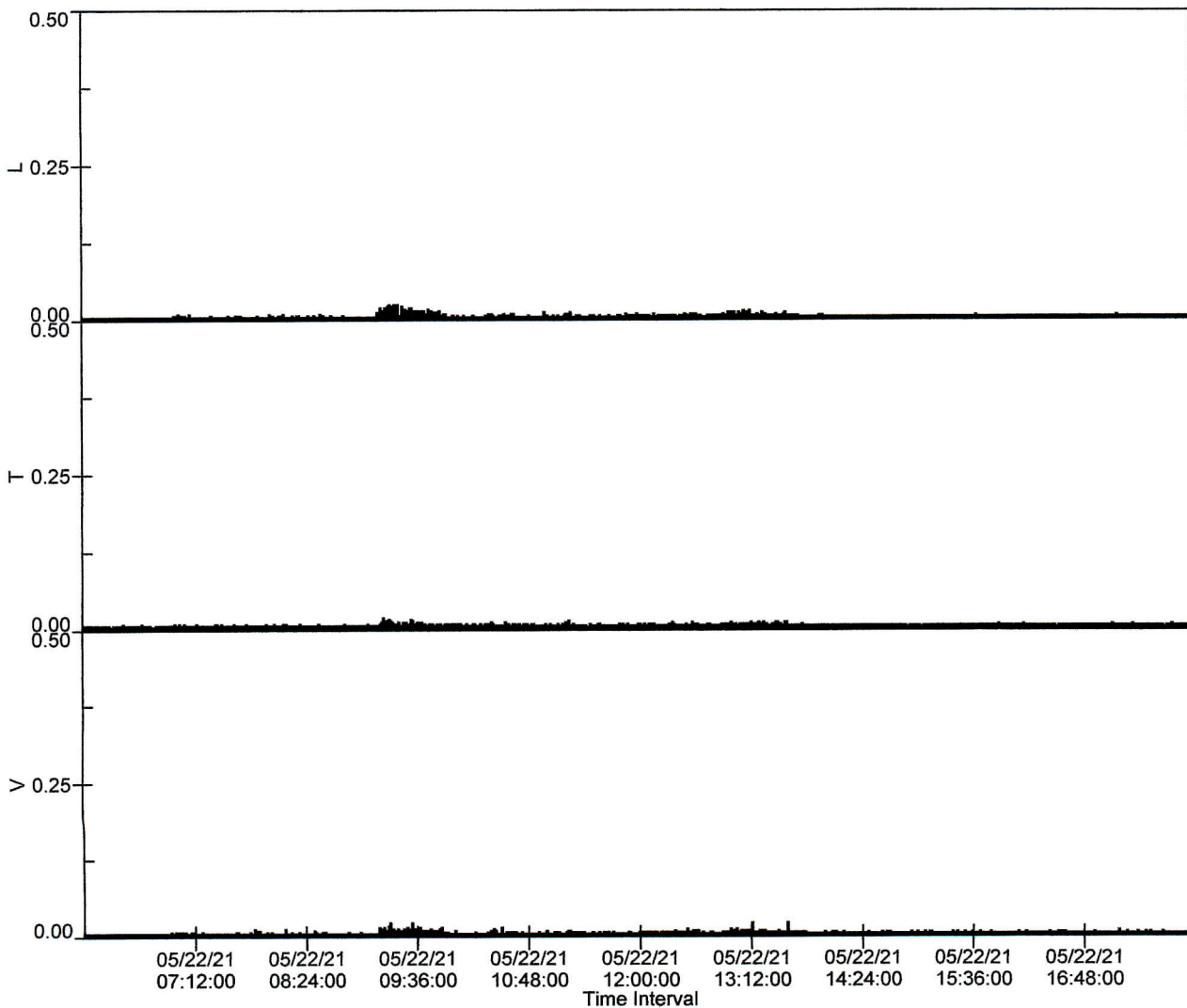
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 102

Record Max PPV: 0.025 in/s Record Max DB: 78 db





**SN:** 3817 v3.22  
**Date:** 05/23/2021 **Time:** 06:01:00  
**Event:** 103  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.010	0.010	0.015
<b>FREQ (Hz)</b>	11.9	166.7	14.3
<b>Peak Air Pressure:</b>	78 db		

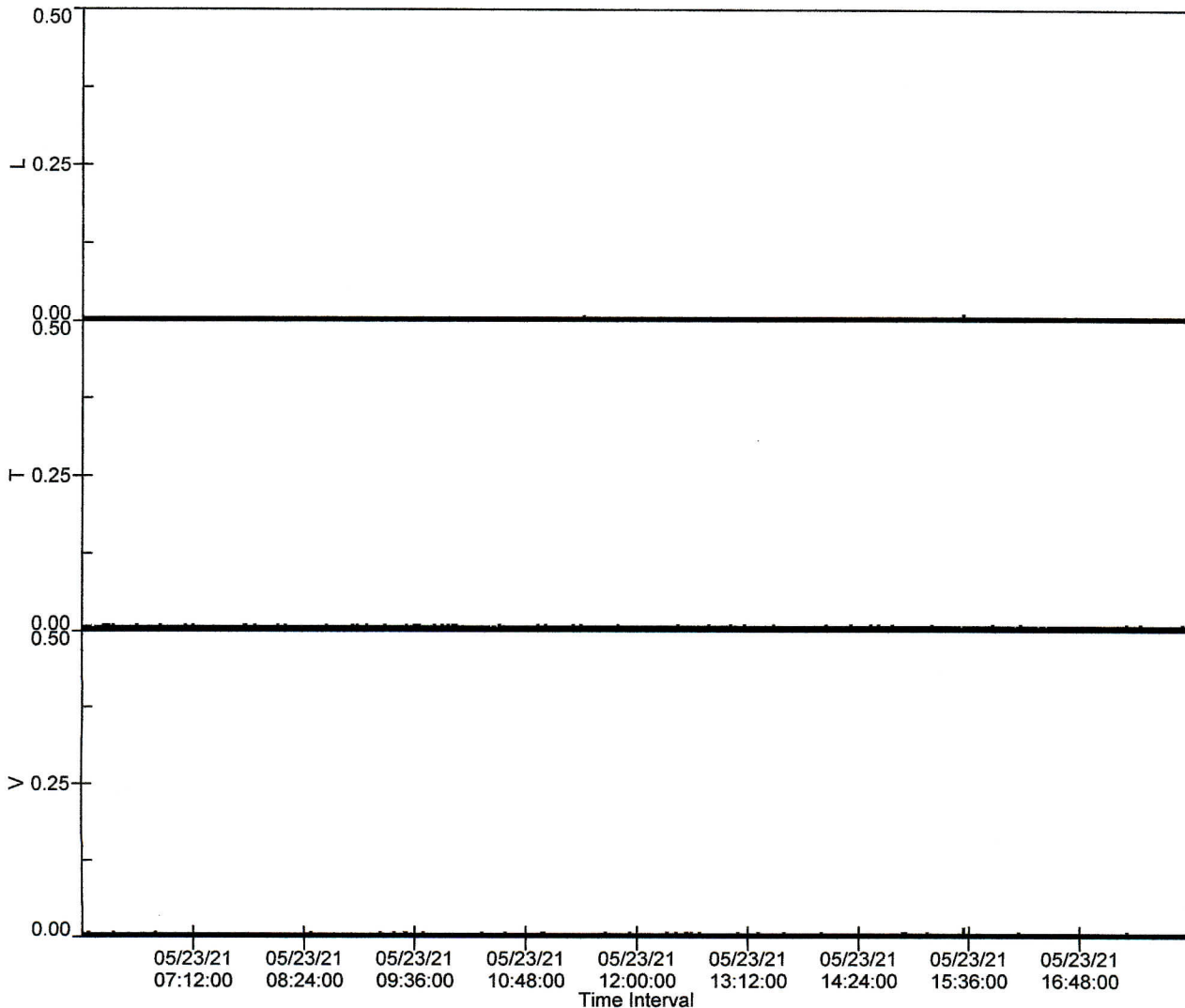
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 103

Record Max PPV: 0.015 in/s Record Max DB: 78 db



**SN:** 3817 v3.22  
**Date:** 05/24/2021 **Time:** 06:01:00  
**Event:** 104  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 491 SKOKIE BLVD

**Continuous Monitor Recording  
Summary Data**

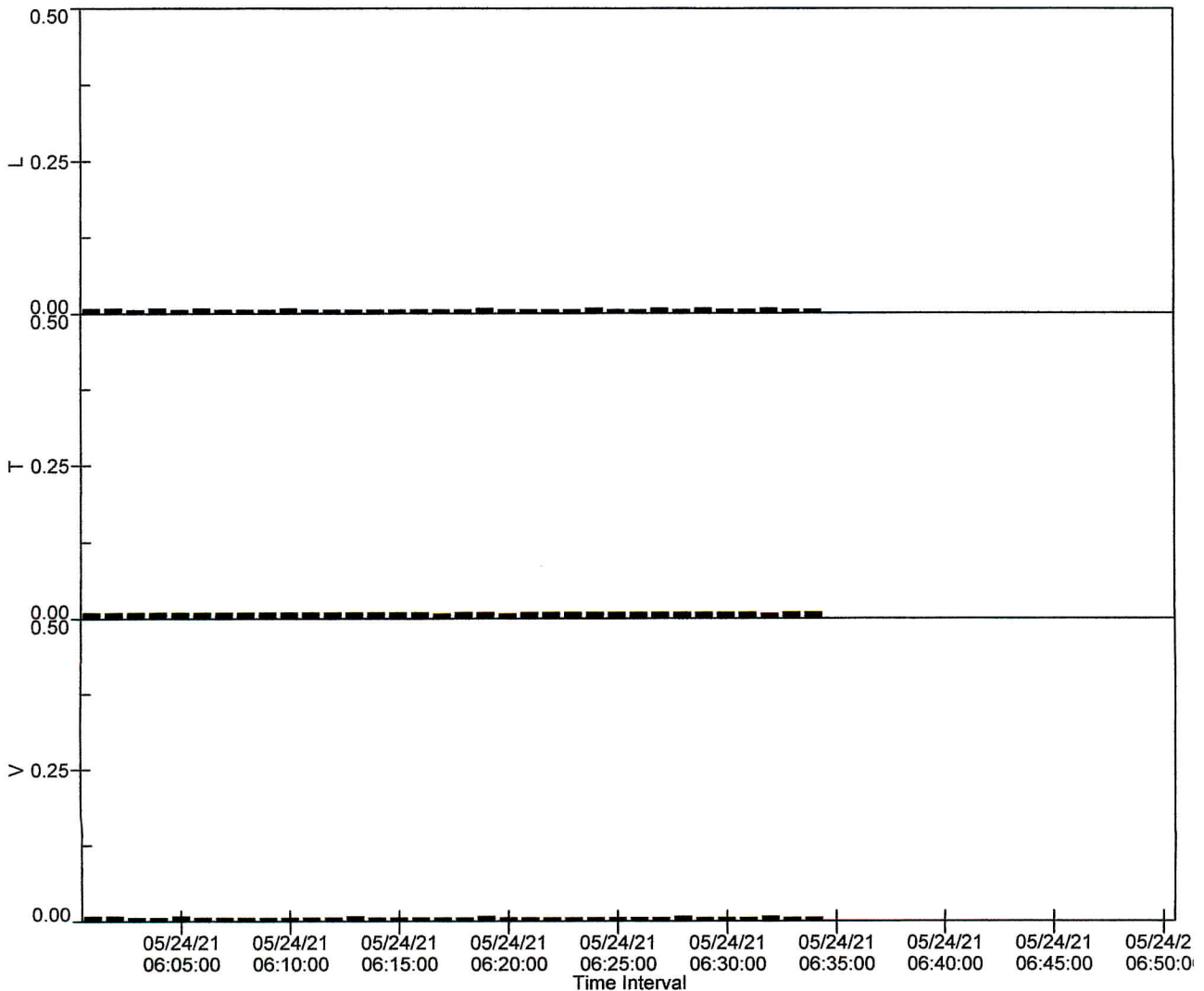
	L	T	V
<b>PPV (in/s)</b>	0.008	0.010	0.008
<b>FREQ (Hz)</b>	.5	26.3	.4
<b>Peak Air Pressure:</b>	84 db		
<b>Recording Time:</b>	34 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3817 Event: 104

Record Max PPV: 0.010 in/s Record Max DB: 84 db





**SN:** 3559 v2.75  
**Date:** 05/10/2021 **Time:** 09:59:00  
**Event:** 90  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.040	0.040	0.028
<b>FREQ (Hz)</b>	16.1	19.2	23.8
<b>Peak Air Pressure:</b>	90 db		

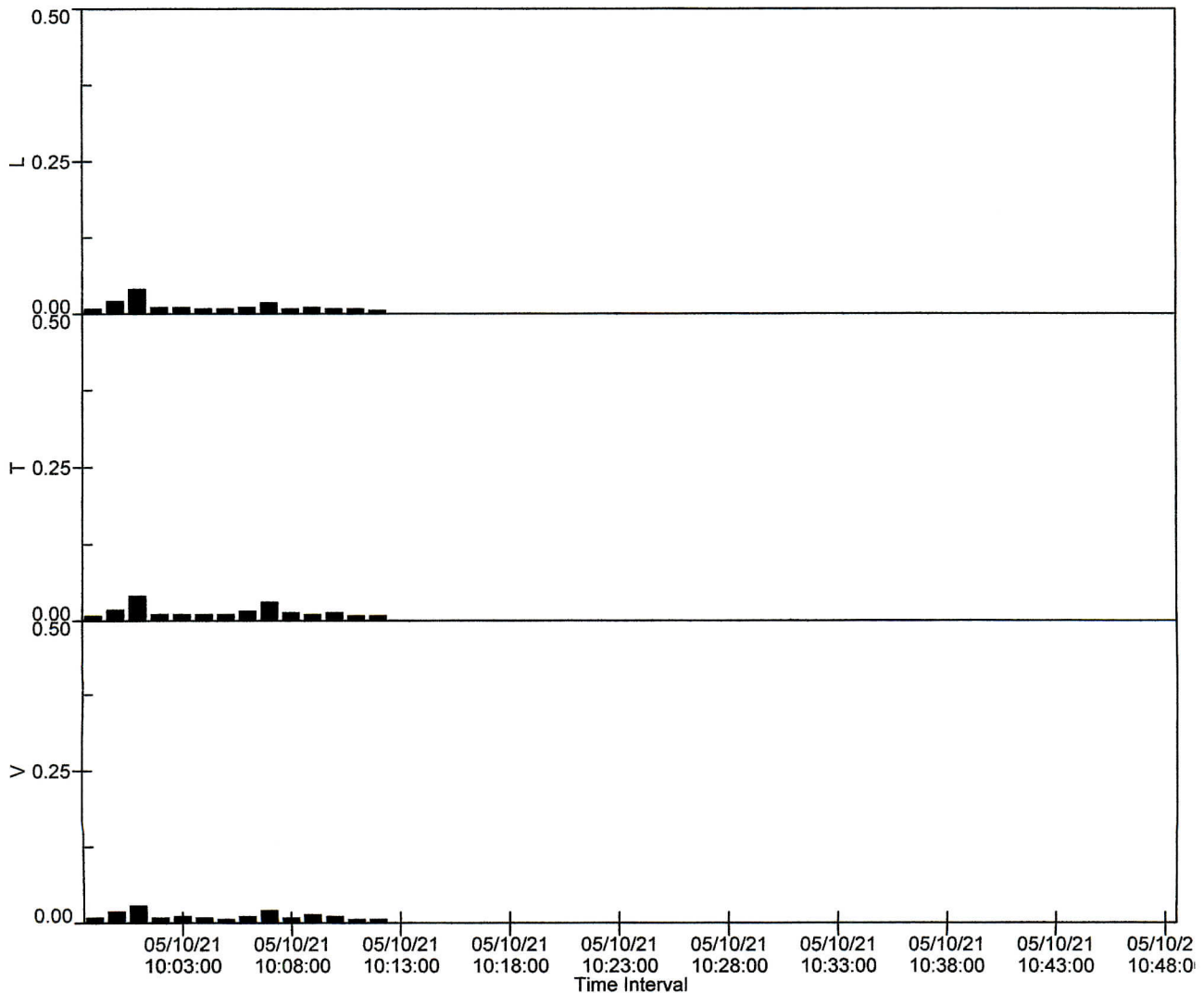
**Recording Time:** 14 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 90

Record Max PPV: 0.040 in/s Record Max DB: 90 db



**SN:** 3559 v2.75  
**Date:** 05/10/2021 **Time:** 10:15:00  
**Event:** 91  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.040	0.038	0.025
<b>FREQ (Hz)</b>	16.7	27.8	31.3
<b>Peak Air Pressure:</b>	86 db		

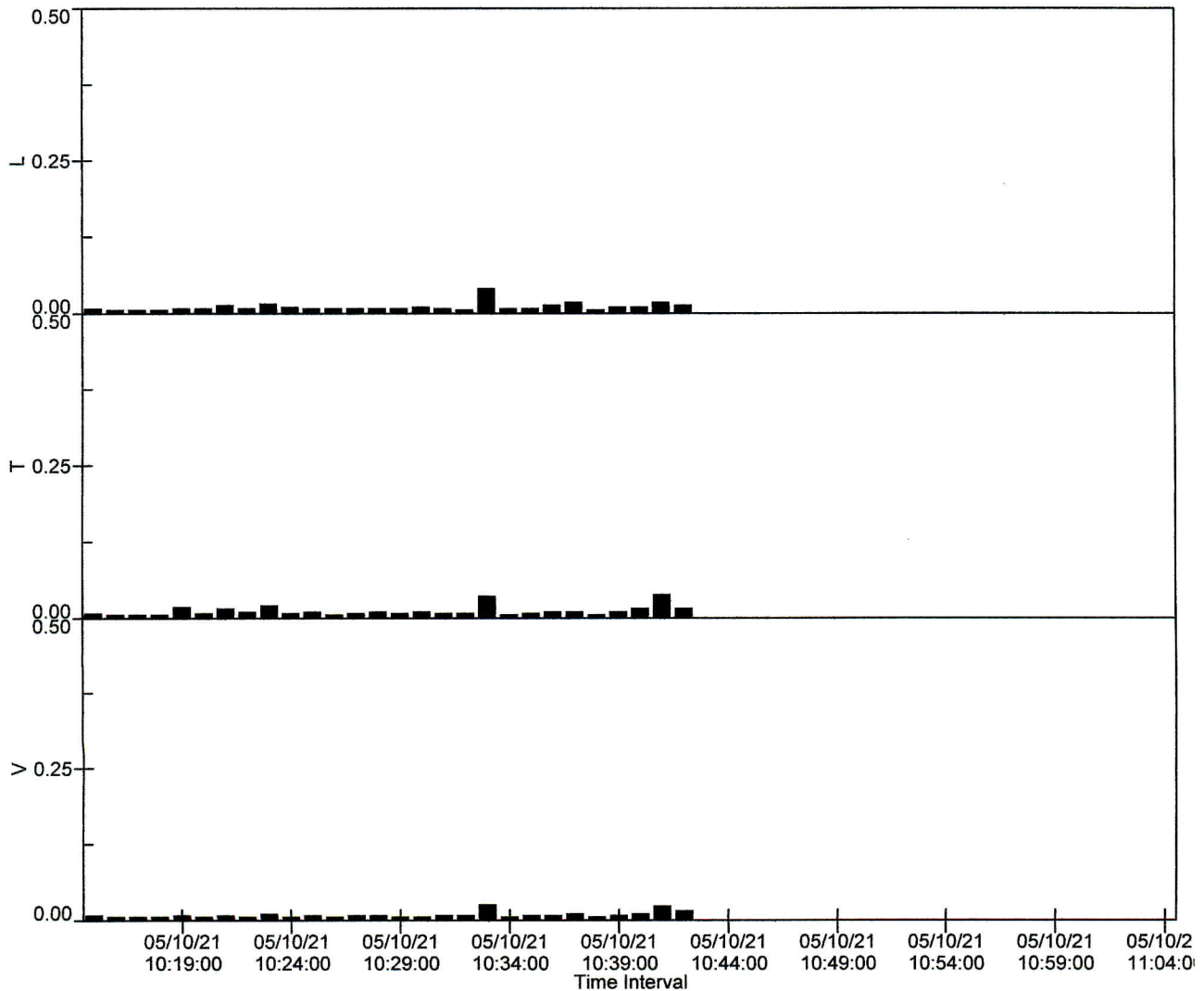
**Recording Time:** 28 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 91

Record Max PPV: 0.040 in/s Record Max DB: 86 db



**SN:** 3559 v2.75  
**Date:** 05/10/2021 **Time:** 10:45:00  
**Event:** 92  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.110	0.090	0.050
<b>FREQ (Hz)</b>	22.7	33.3	38.5
<b>Peak Air Pressure:</b>	76 db		

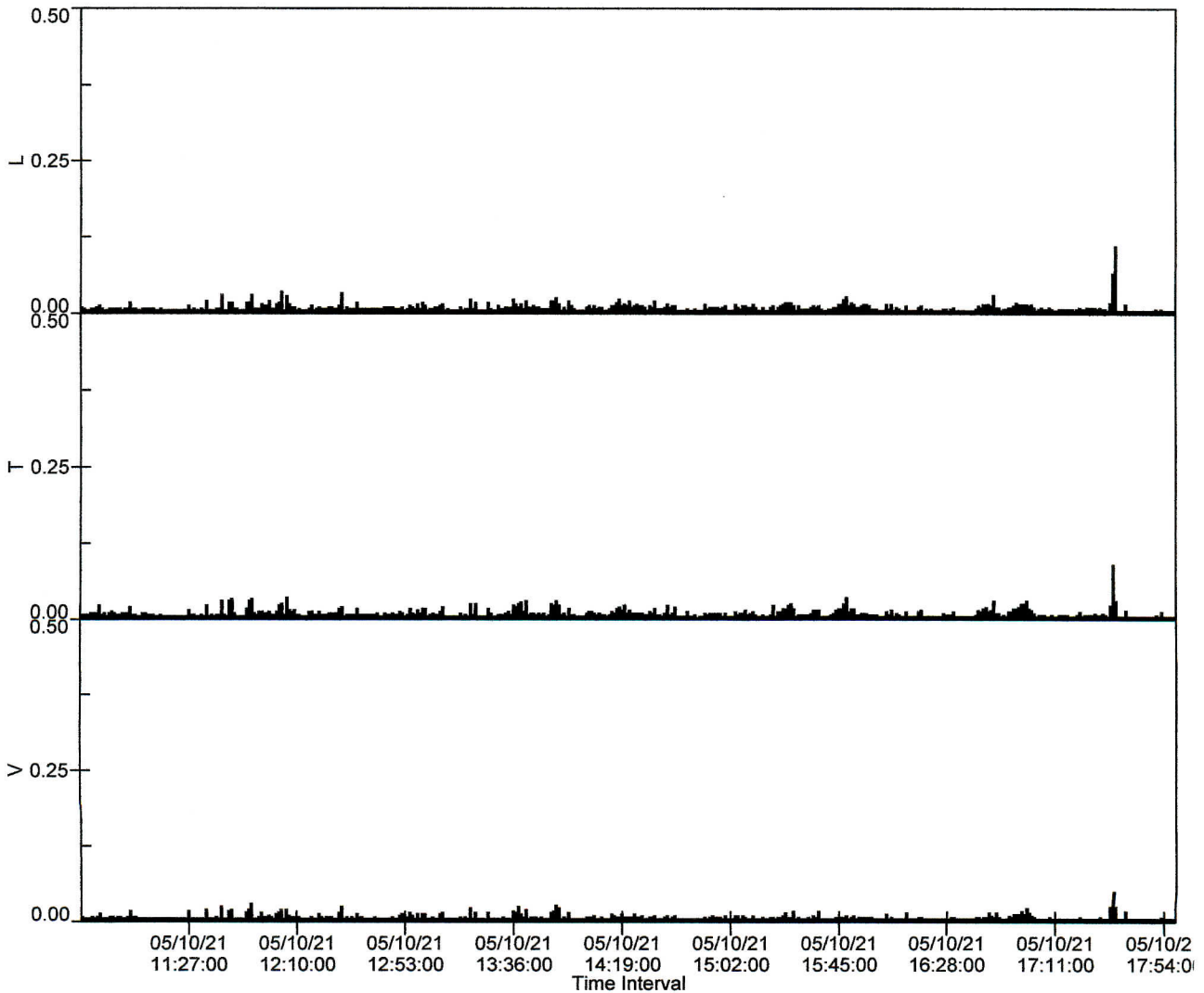
**Recording Time:** 434 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 92

Record Max PPV: 0.110 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/11/2021 **Time:** 06:01:00  
**Event:** 93  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.050	0.058	0.038
<b>FREQ (Hz)</b>	23.8	33.3	31.3
<b>Peak Air Pressure:</b>	81 db		

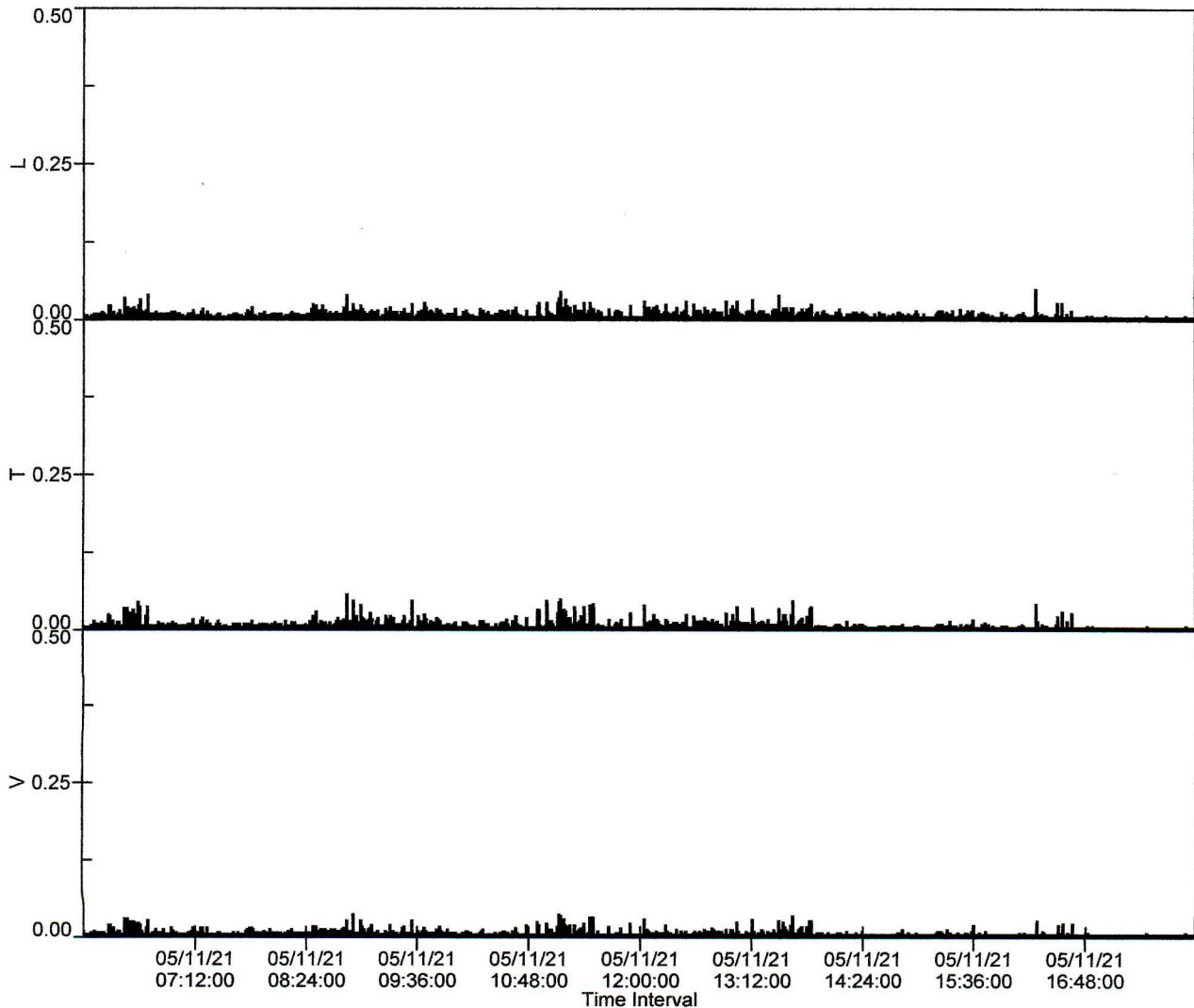
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 93

Record Max PPV: 0.058 in/s Record Max DB: 81 db



**SN:** 3559 v2.75  
**Date:** 05/12/2021 **Time:** 06:01:00  
**Event:** 94  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.058	0.053	0.043
<b>FREQ (Hz)</b>	22.7	29.4	35.7
<b>Peak Air Pressure:</b>	81 db		

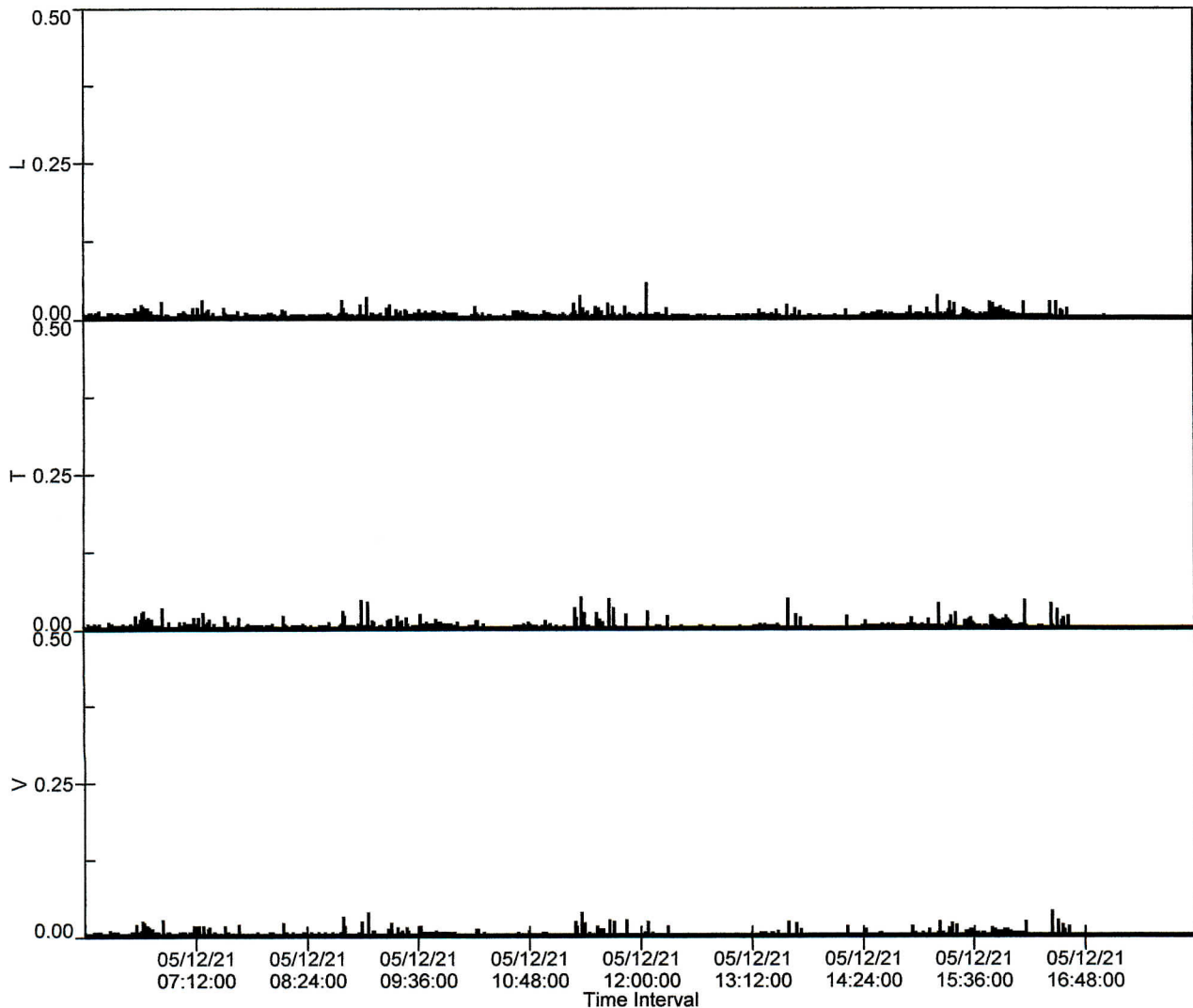
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 94

Record Max PPV: 0.058 in/s Record Max DB: 81 db





**SN:** 3559 v2.75  
**Date:** 05/13/2021 **Time:** 06:01:00  
**Event:** 95  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.035	0.050	0.035
<b>FREQ (Hz)</b>	27.8	22.7	33.3
<b>Peak Air Pressure:</b>	79 db		

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

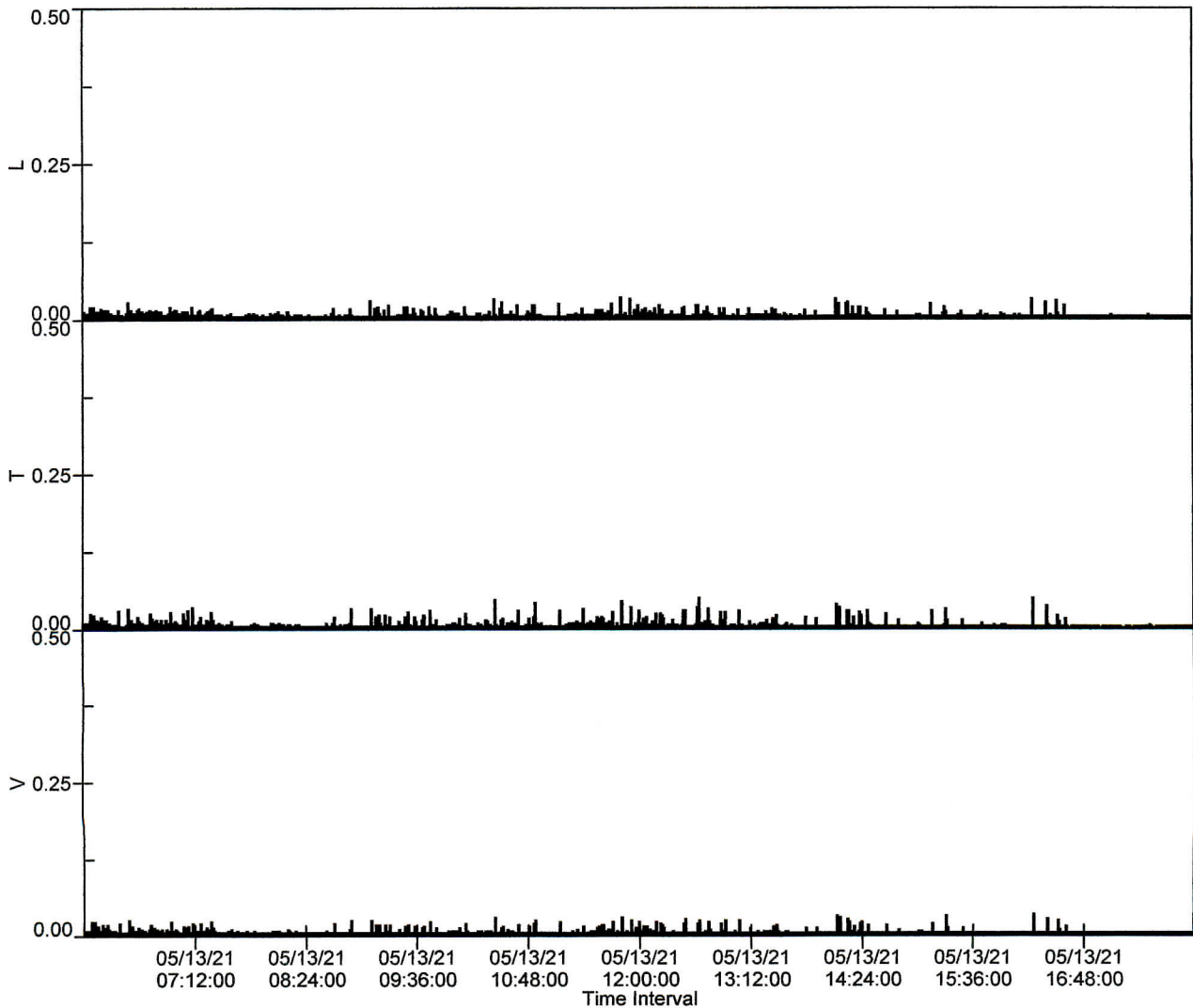
**Additional Info:**

**Shaketable Calibrated:** 03/27/2020

**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 95

Record Max PPV: 0.050 in/s Record Max DB: 79 db



**SN:** 3559 v2.75  
**Date:** 05/14/2021 **Time:** 06:01:00  
**Event:** 96  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.038	0.048	0.045
<b>FREQ (Hz)</b>	33.3	33.3	38.5
<b>Peak Air Pressure:</b>	79 db		

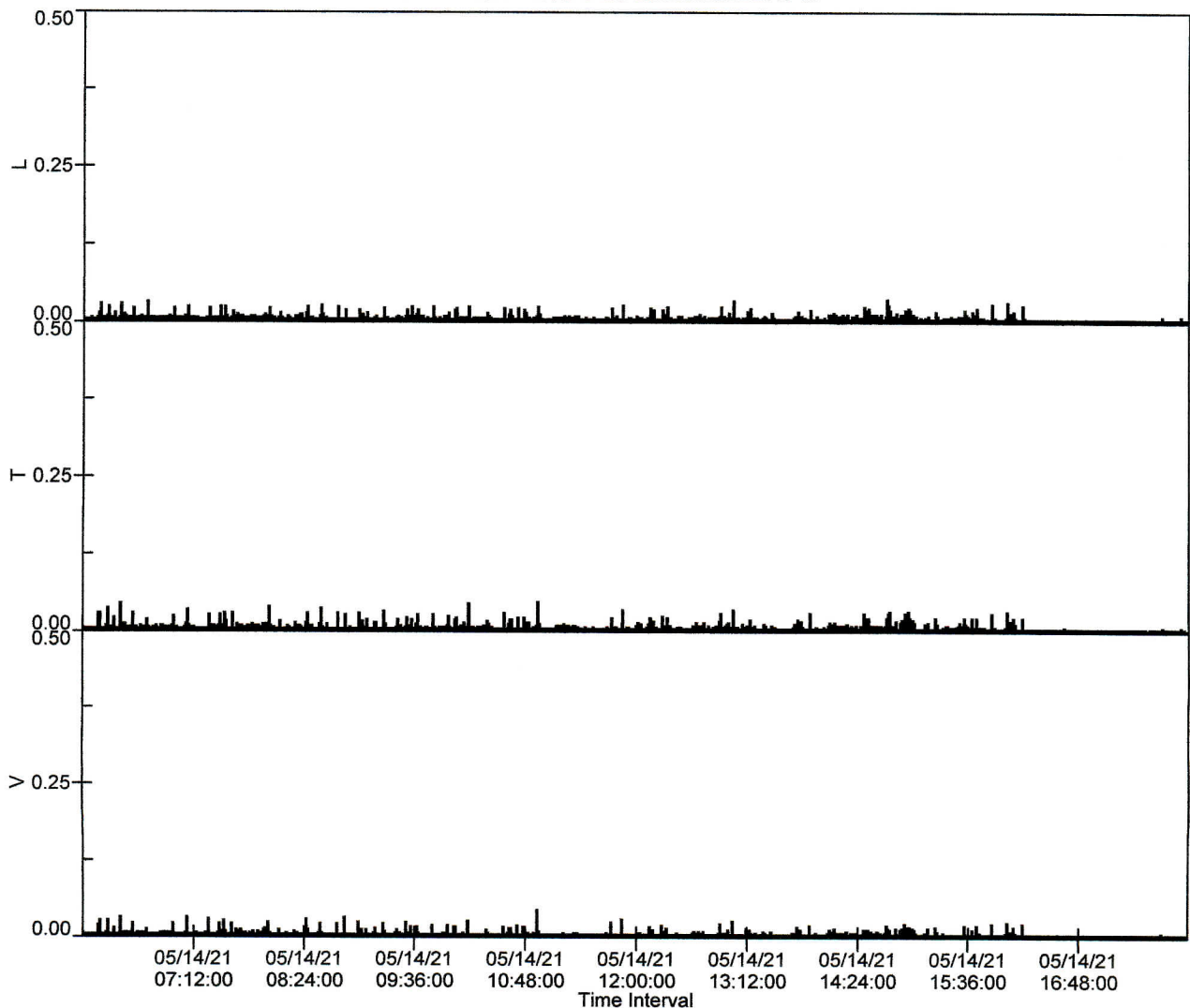
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 96

Record Max PPV: 0.048 in/s Record Max DB: 79 db



**SN:** 3559 v2.75  
**Date:** 05/15/2021 **Time:** 06:01:00  
**Event:** 97  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.083	0.088	0.040
<b>FREQ (Hz)</b>	17.9	18.5	31.3
<b>Peak Air Pressure:</b>	76 db		

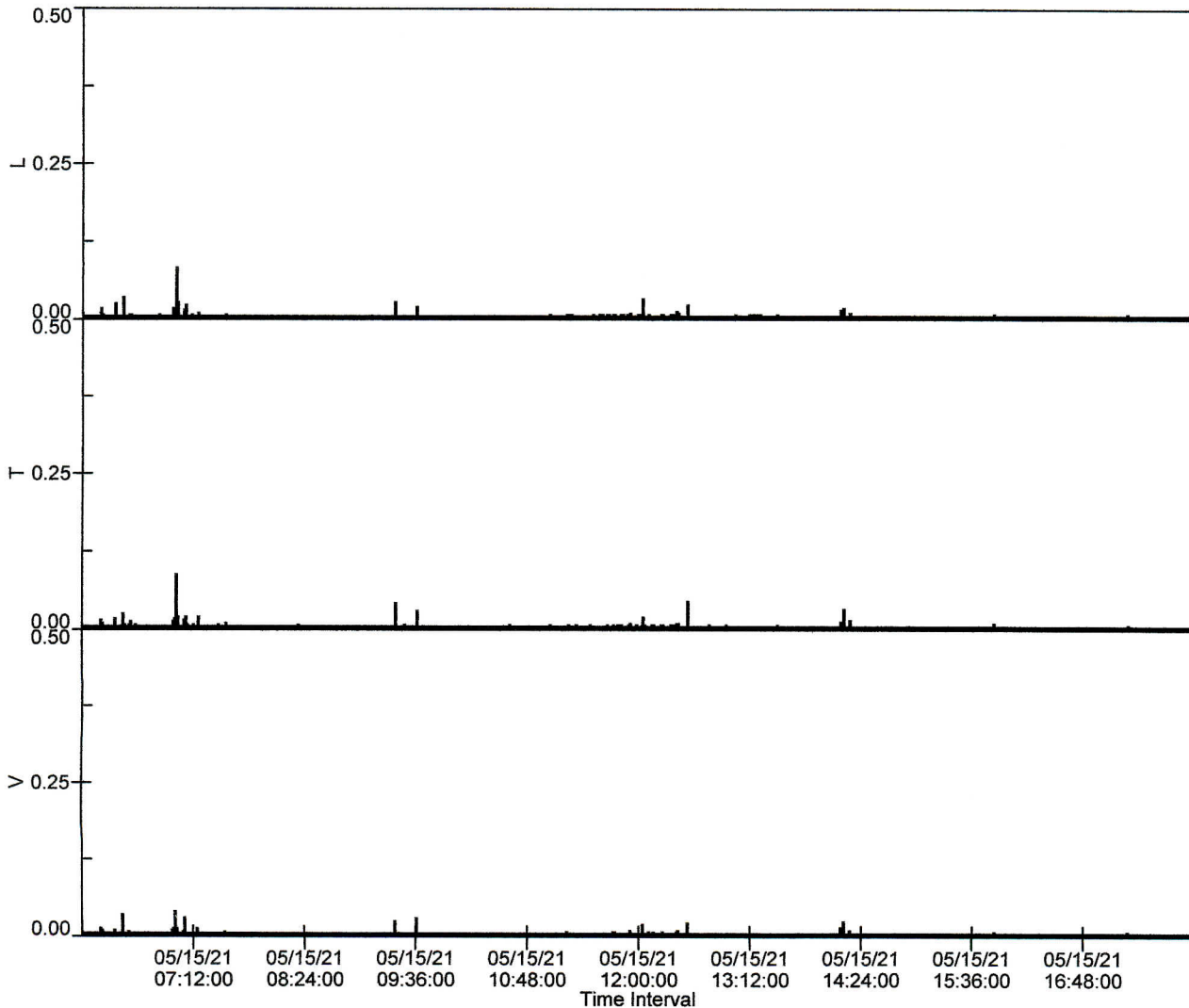
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 97

Record Max PPV: 0.088 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/16/2021 **Time:** 06:01:00  
**Event:** 98  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.008	0.008	0.008
<b>FREQ (Hz)</b>	6.5	2.6	166.7
<b>Peak Air Pressure:</b>	76 db		

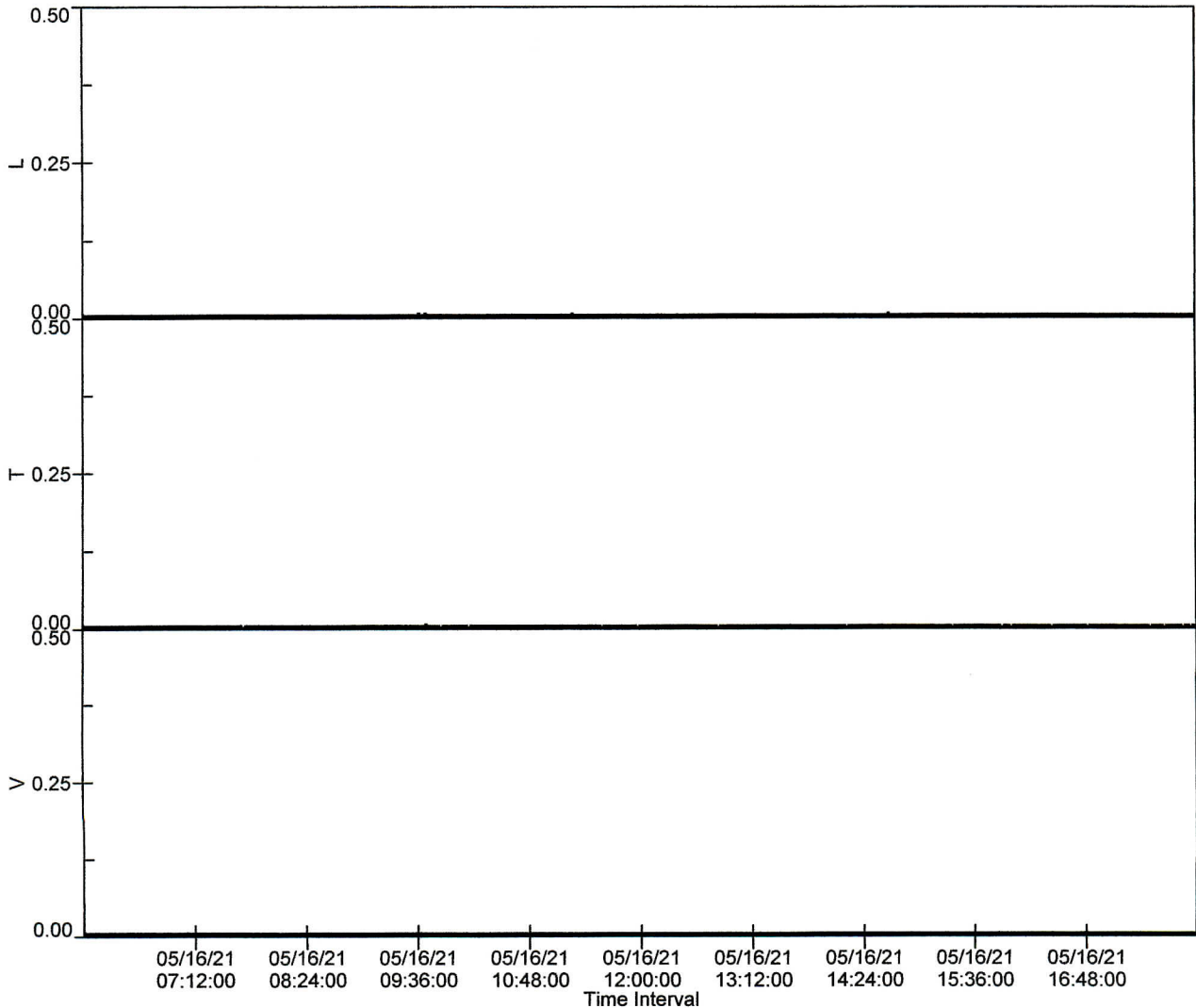
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 98

Record Max PPV: 0.008 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/17/2021 **Time:** 06:01:00  
**Event:** 99  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.035	0.060	0.050
<b>FREQ (Hz)</b>	21.7	38.5	38.5
<b>Peak Air Pressure:</b>	78 db		

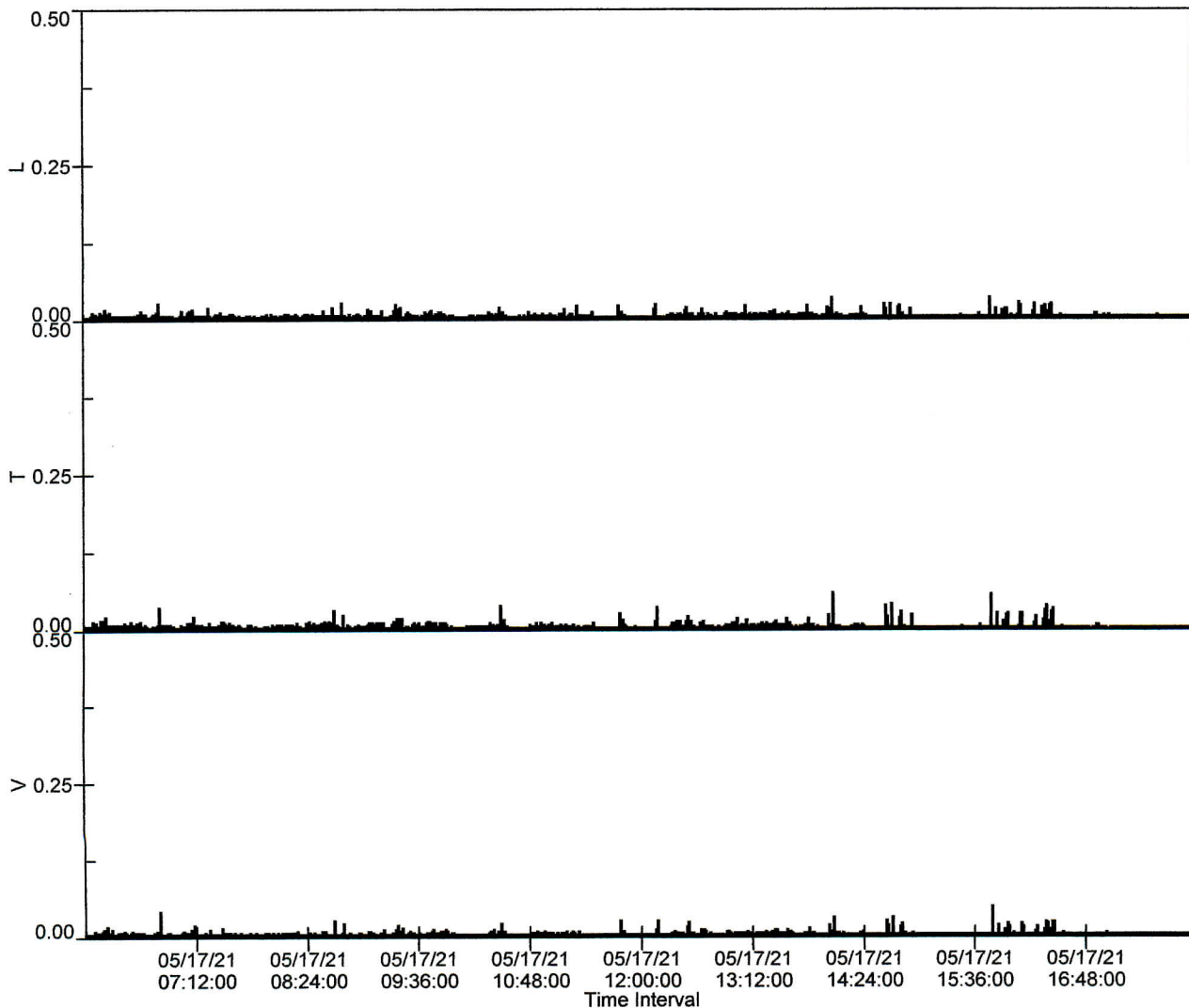
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 99

Record Max PPV: 0.060 in/s Record Max DB: 78 db



**SN:** 3559 v2.75  
**Date:** 05/18/2021 **Time:** 06:01:00  
**Event:** 100  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.063	0.070	0.043
<b>FREQ (Hz)</b>	29.4	17.2	38.5
<b>Peak Air Pressure:</b>	76 db		

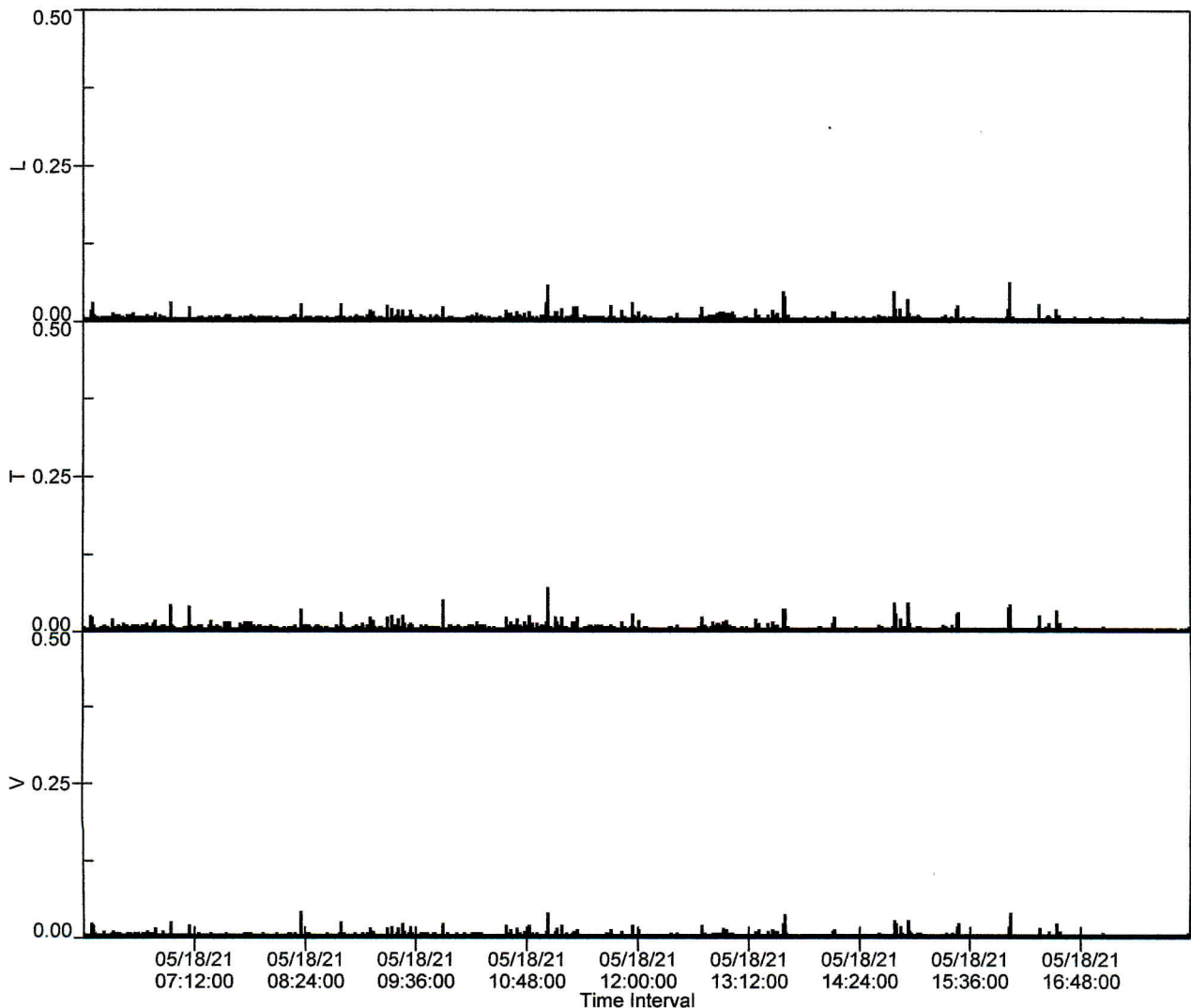
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 100

Record Max PPV: 0.070 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/19/2021 **Time:** 06:01:00  
**Event:** 101  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

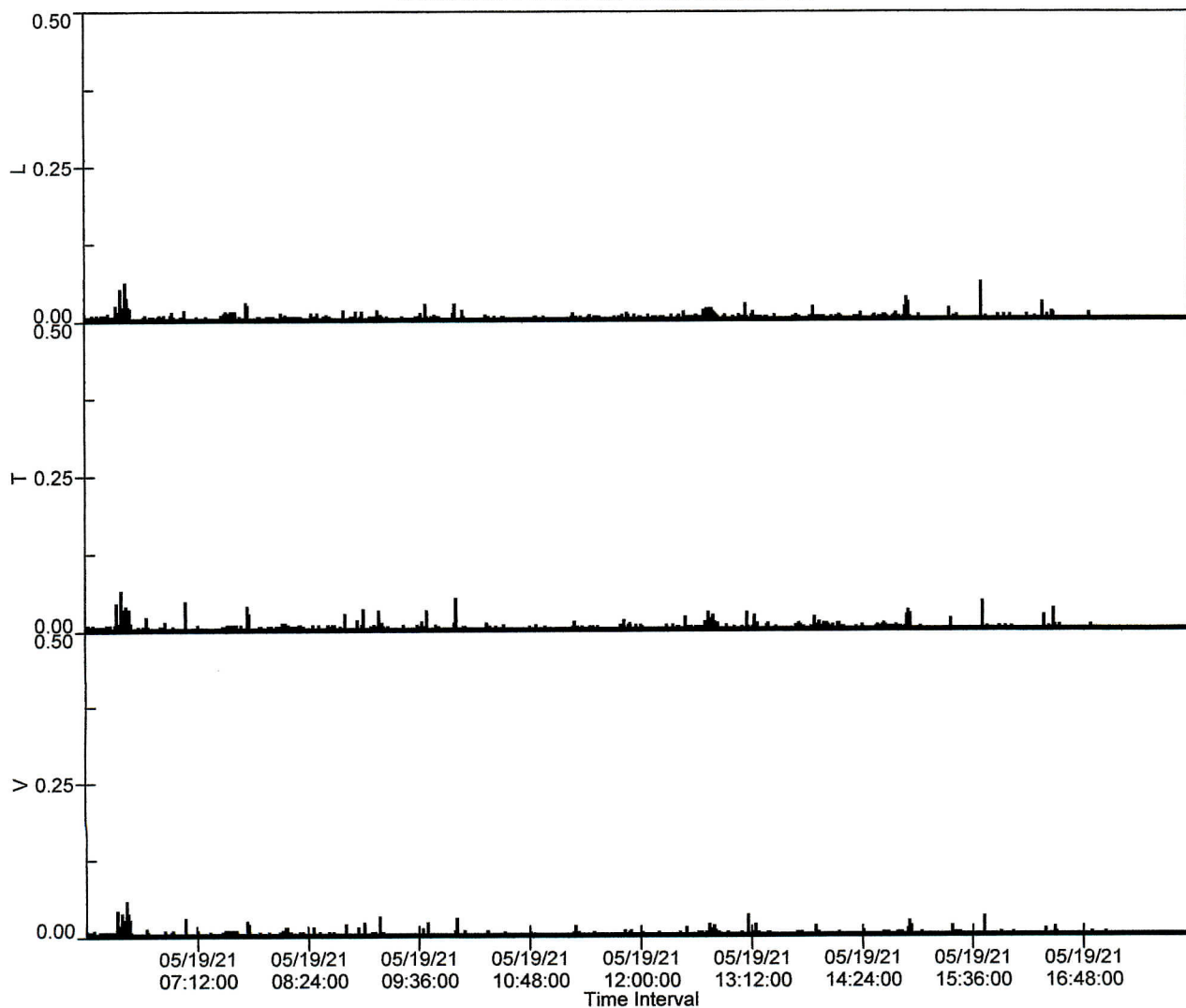
	L	T	V
<b>PPV (in/s)</b>	0.063	0.065	0.058
<b>FREQ (Hz)</b>	22.7	83.3	25.0
<b>Peak Air Pressure:</b>	78 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 101

Record Max PPV: 0.065 in/s Record Max DB: 78 db



**SN:** 3559 v2.75  
**Date:** 05/20/2021 **Time:** 06:01:00  
**Event:** 102  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

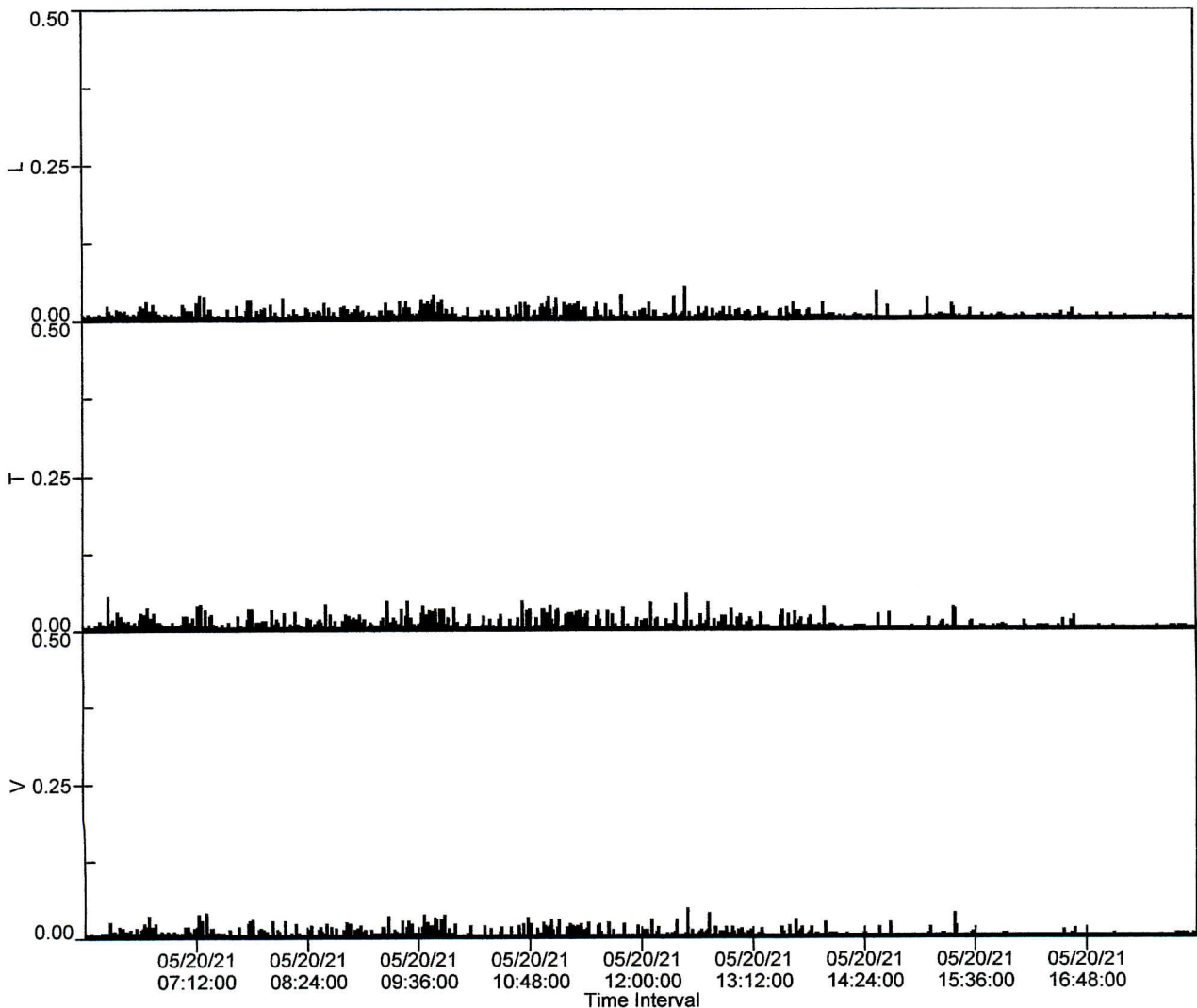
	L	T	V
<b>PPV (in/s)</b>	0.053	0.060	0.048
<b>FREQ (Hz)</b>	26.3	35.7	38.5
<b>Peak Air Pressure:</b>	82 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 102

Record Max PPV: 0.060 in/s Record Max DB: 82 db





**SN:** 3559 v2.75  
**Date:** 05/21/2021 **Time:** 06:01:00  
**Event:** 103  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording  
Summary Data**

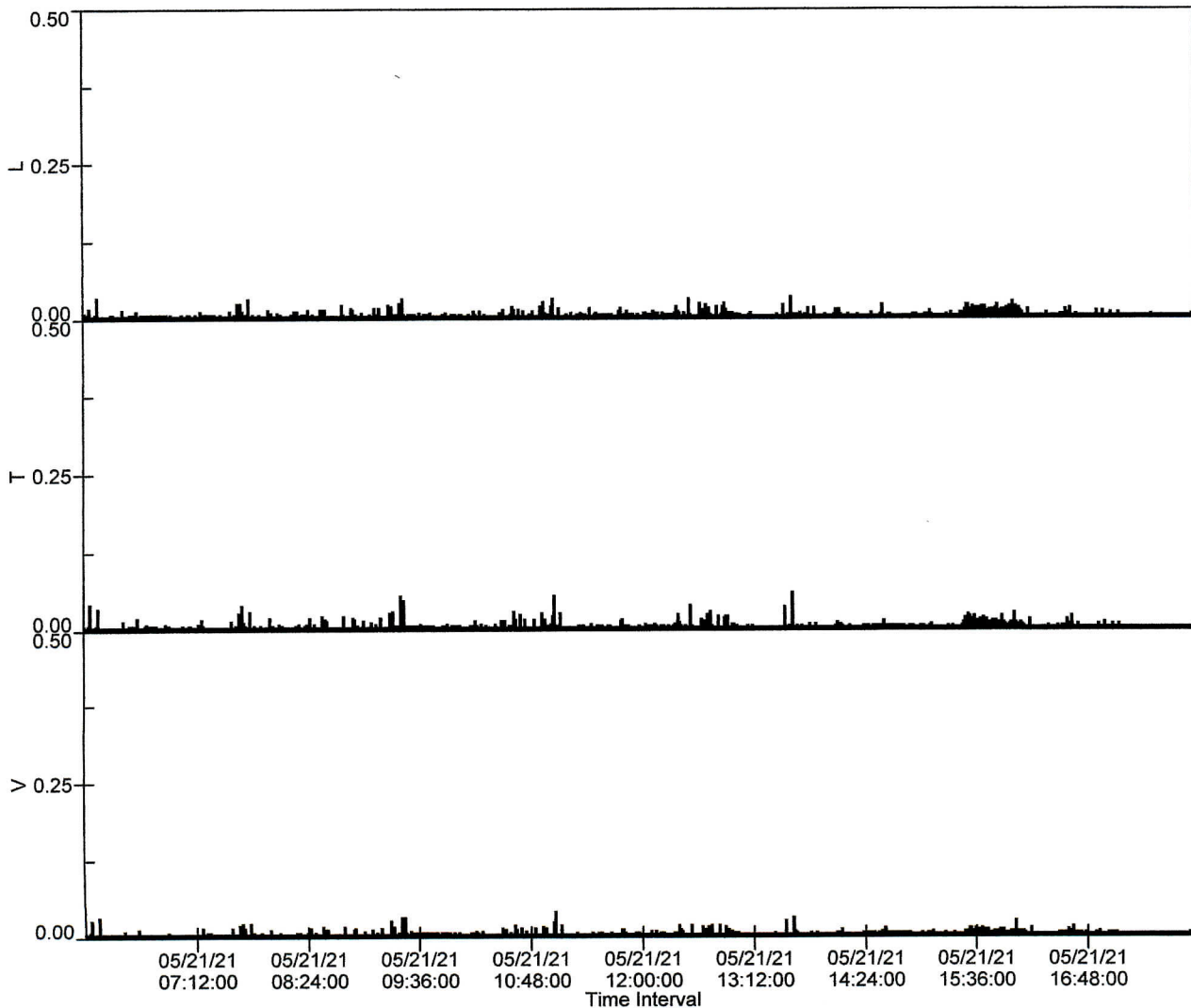
	L	T	V
<b>PPV (in/s)</b>	0.035	0.060	0.043
<b>FREQ (Hz)</b>	26.3	23.8	38.5
<b>Peak Air Pressure:</b>	76 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 103

Record Max PPV: 0.060 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/22/2021 **Time:** 06:01:00  
**Event:** 104  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.038	0.045	0.035
<b>FREQ (Hz)</b>	50.0	50.0	41.7
<b>Peak Air Pressure:</b>	76 db		

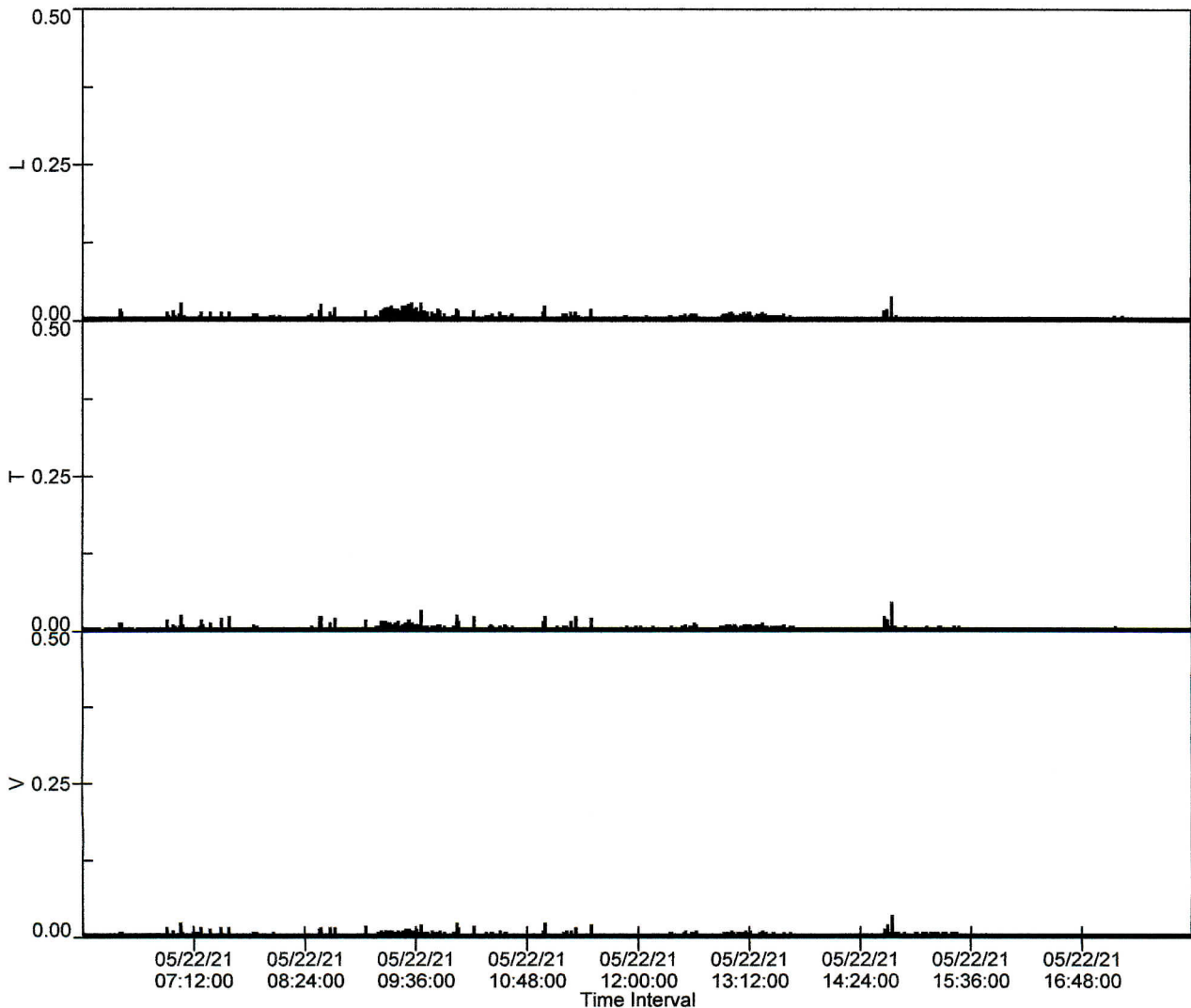
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 104

Record Max PPV: 0.045 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/23/2021 **Time:** 06:01:00  
**Event:** 105  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.015	0.030	0.018
<b>FREQ (Hz)</b>	14.7	71.4	62.5
<b>Peak Air Pressure:</b>	76 db		

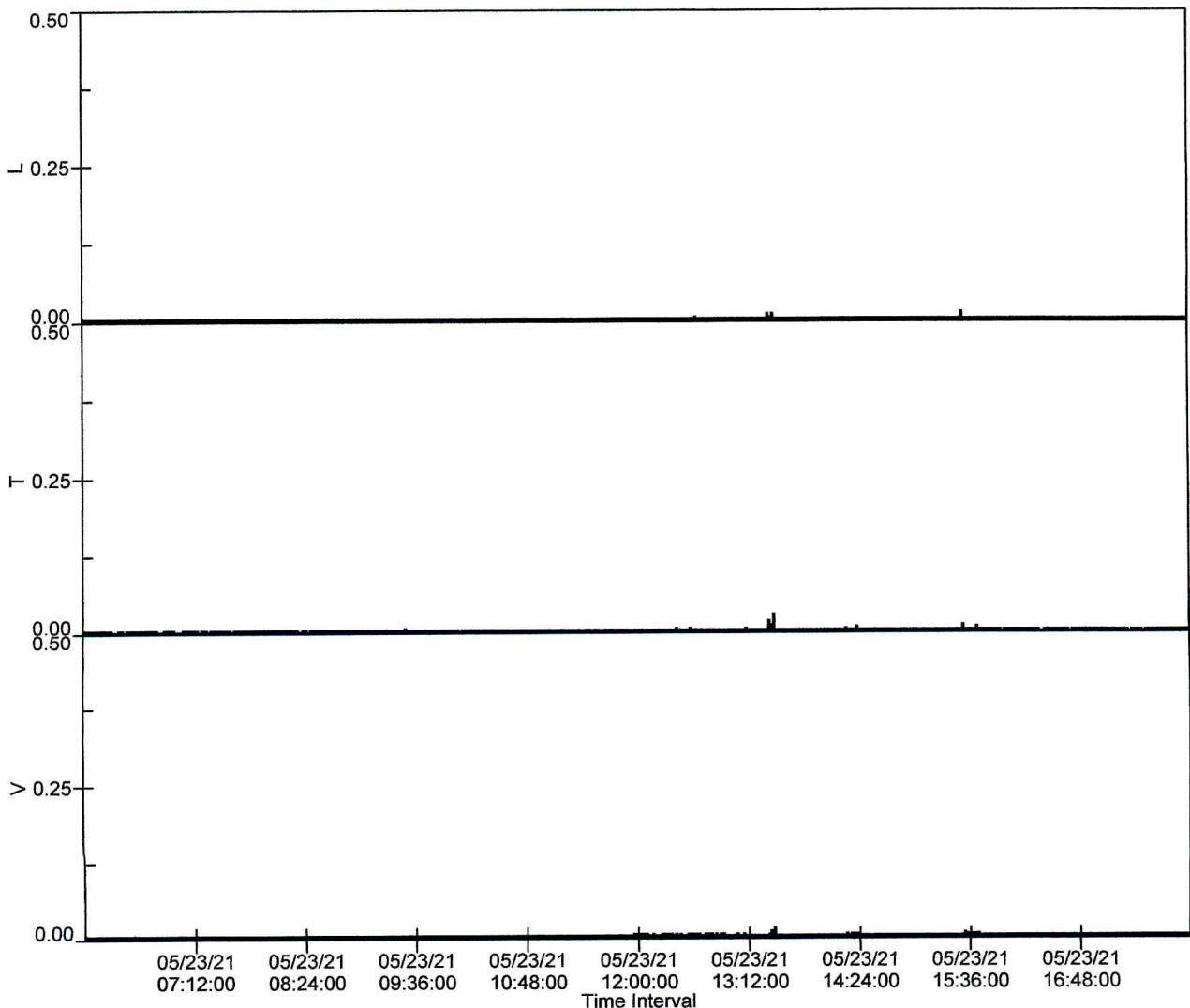
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 105

Record Max PPV: 0.030 in/s Record Max DB: 76 db



**SN:** 3559 v2.75  
**Date:** 05/24/2021 **Time:** 06:01:00  
**Event:** 106  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3005 WILMETTE AVENUE

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.033	0.023	0.018
<b>FREQ (Hz)</b>	25.0	26.3	27.8
<b>Peak Air Pressure:</b>	81 db		

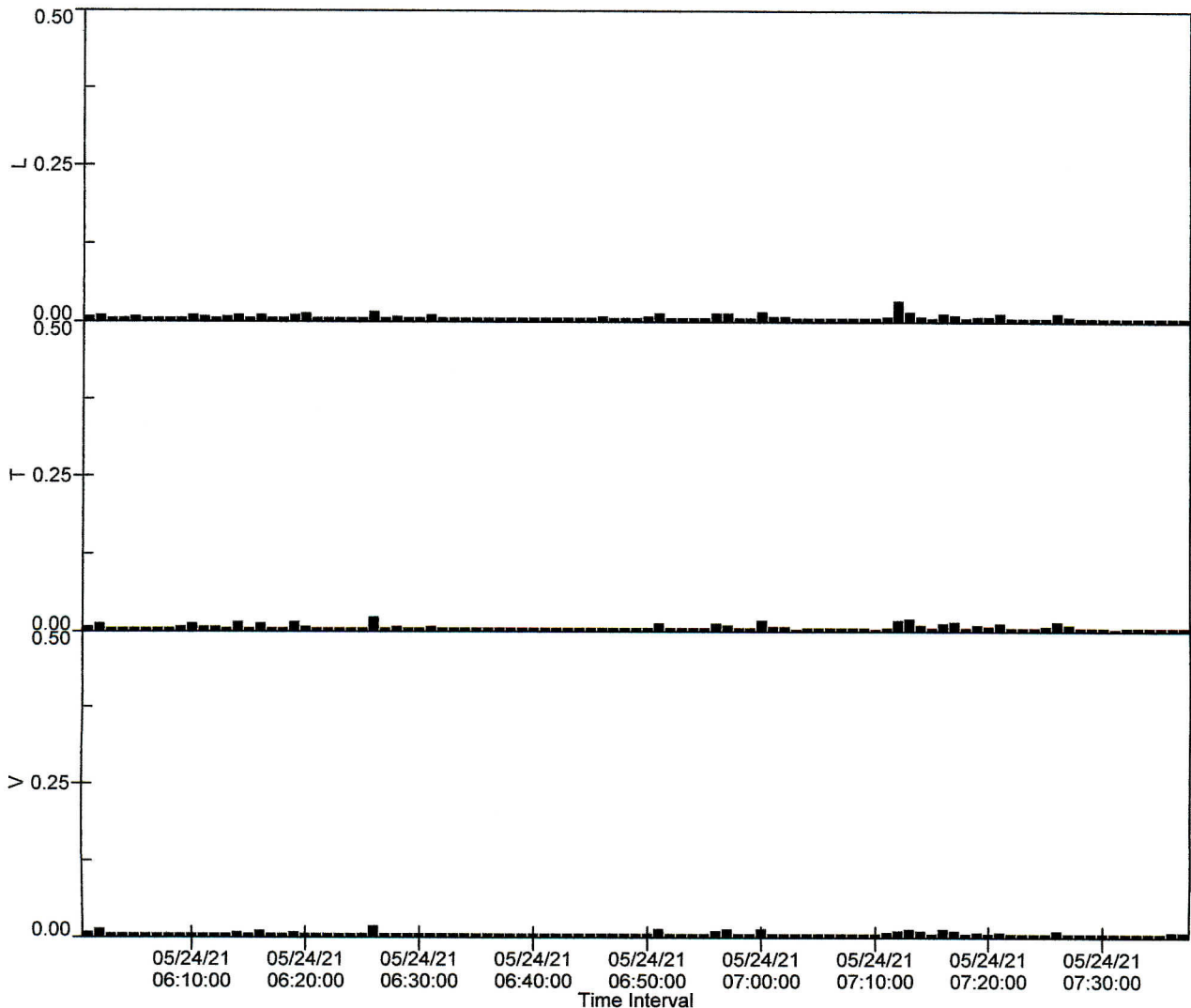
**Recording Time:** 97 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 03/27/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3559 Event: 106

Record Max PPV: 0.033 in/s Record Max DB: 81 db





**SN:** 3734 v3.22  
**Date:** 05/10/2021 **Time:** 11:58:00  
**Event:** 90  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.125	0.118	0.148
<b>FREQ (Hz)</b>	16.1	23.8	17.2
<b>Peak Air Pressure:</b>	79 db		

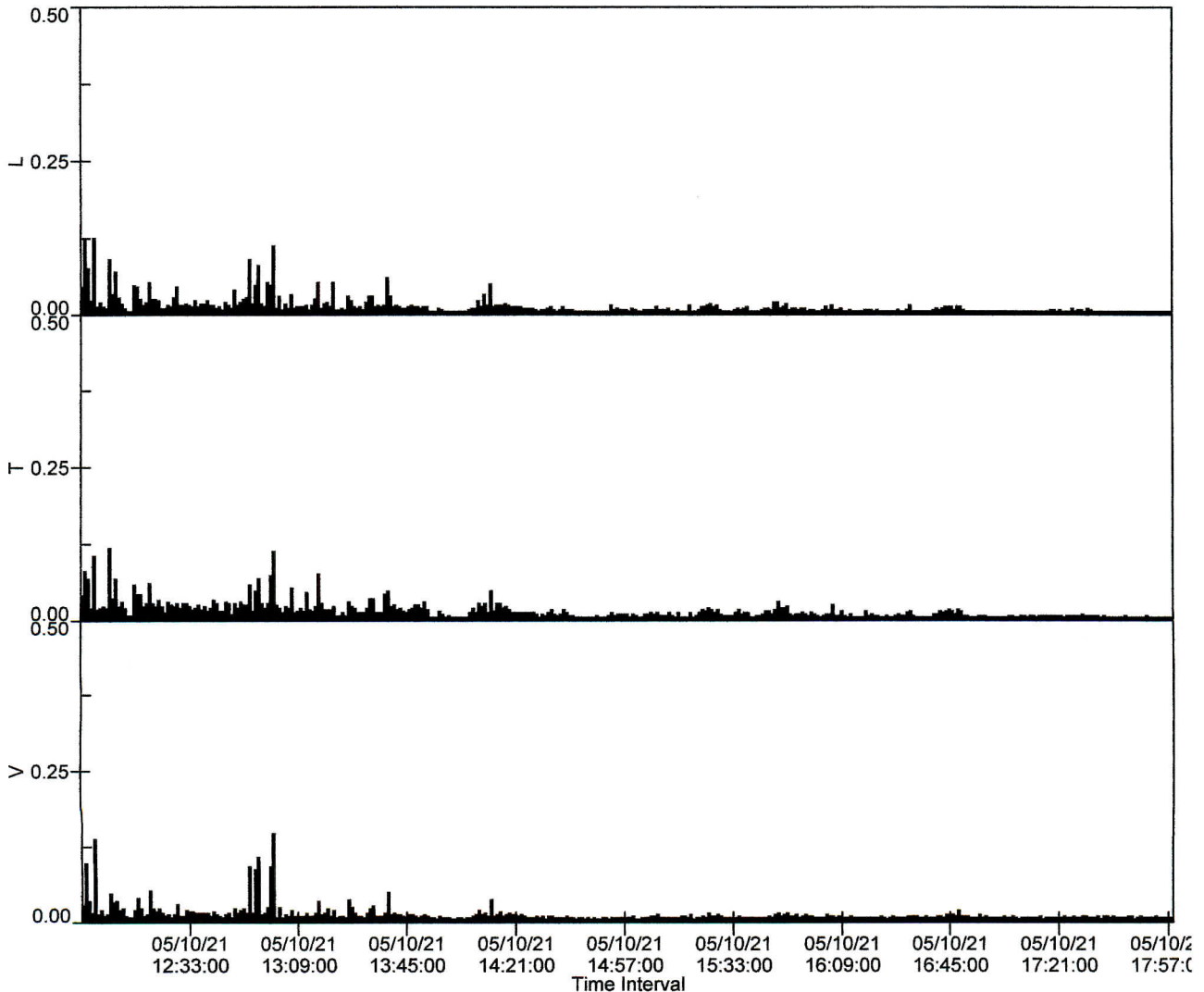
**Recording Time:** 361 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 90

Record Max PPV: 0.148 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/11/2021 **Time:** 06:01:00  
**Event:** 91  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording**

**Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.180	0.093	0.050
<b>FREQ (Hz)</b>	29.4	16.7	21.7
<b>Peak Air Pressure:</b>	79 db		

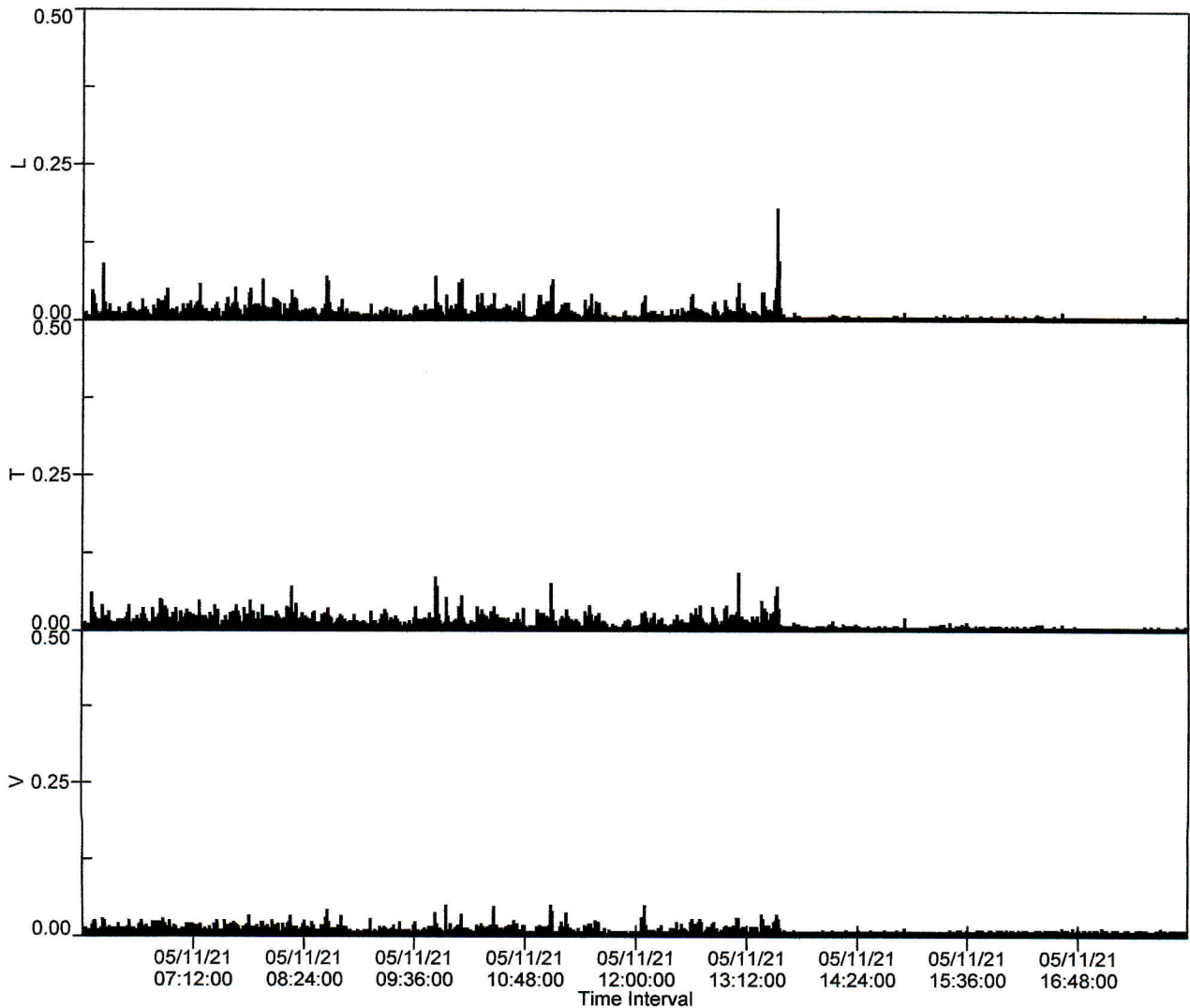
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 91

Record Max PPV: 0.180 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/12/2021 **Time:** 06:01:00  
**Event:** 92  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.203	0.183	0.210
<b>FREQ (Hz)</b>	23.8	29.4	29.4
<b>Peak Air Pressure:</b>	79 db		

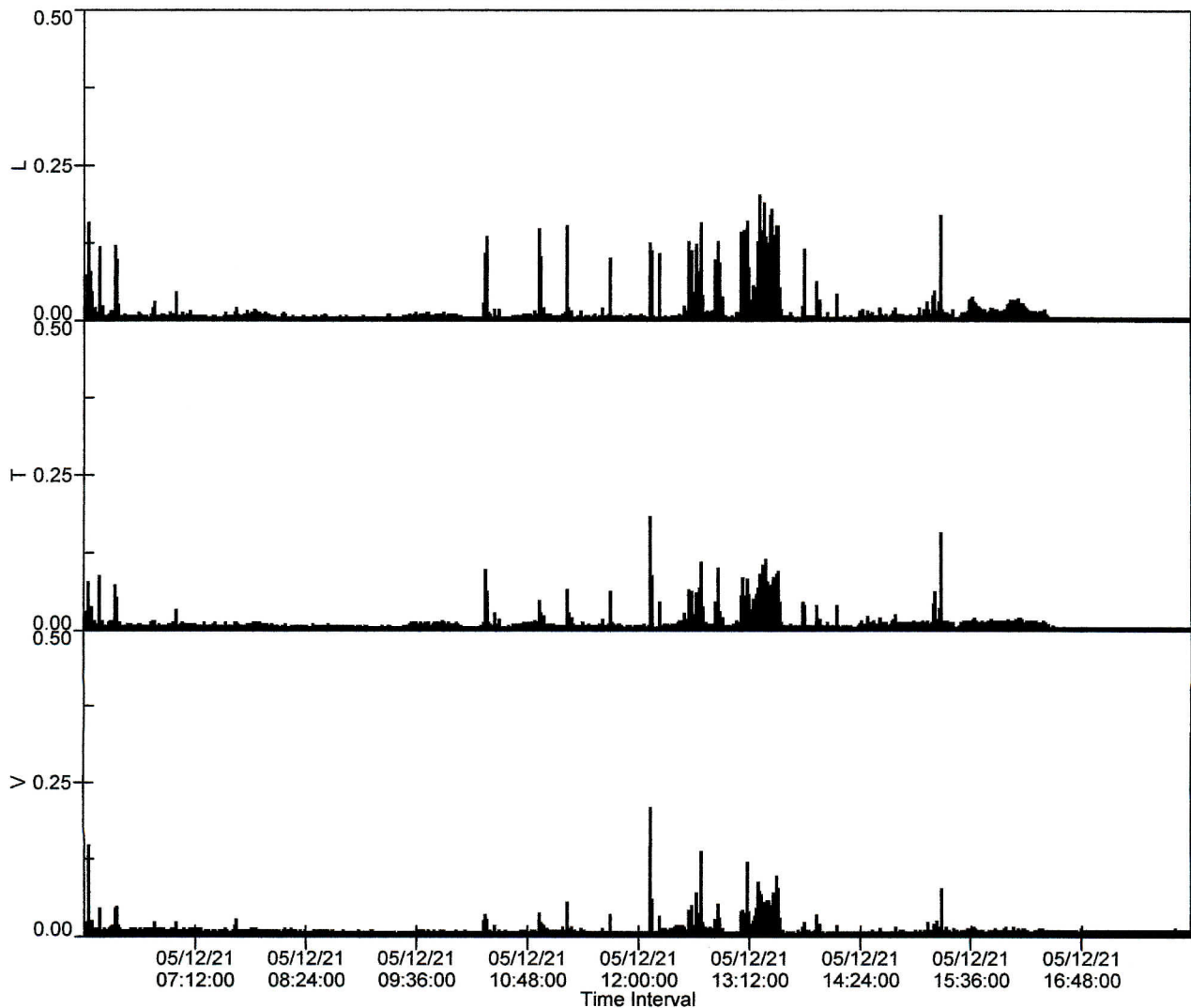
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 92

Record Max PPV: 0.210 in/s Record Max DB: 79 db





**SN:** 3734 v3.22  
**Date:** 05/13/2021 **Time:** 06:01:00  
**Event:** 93  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

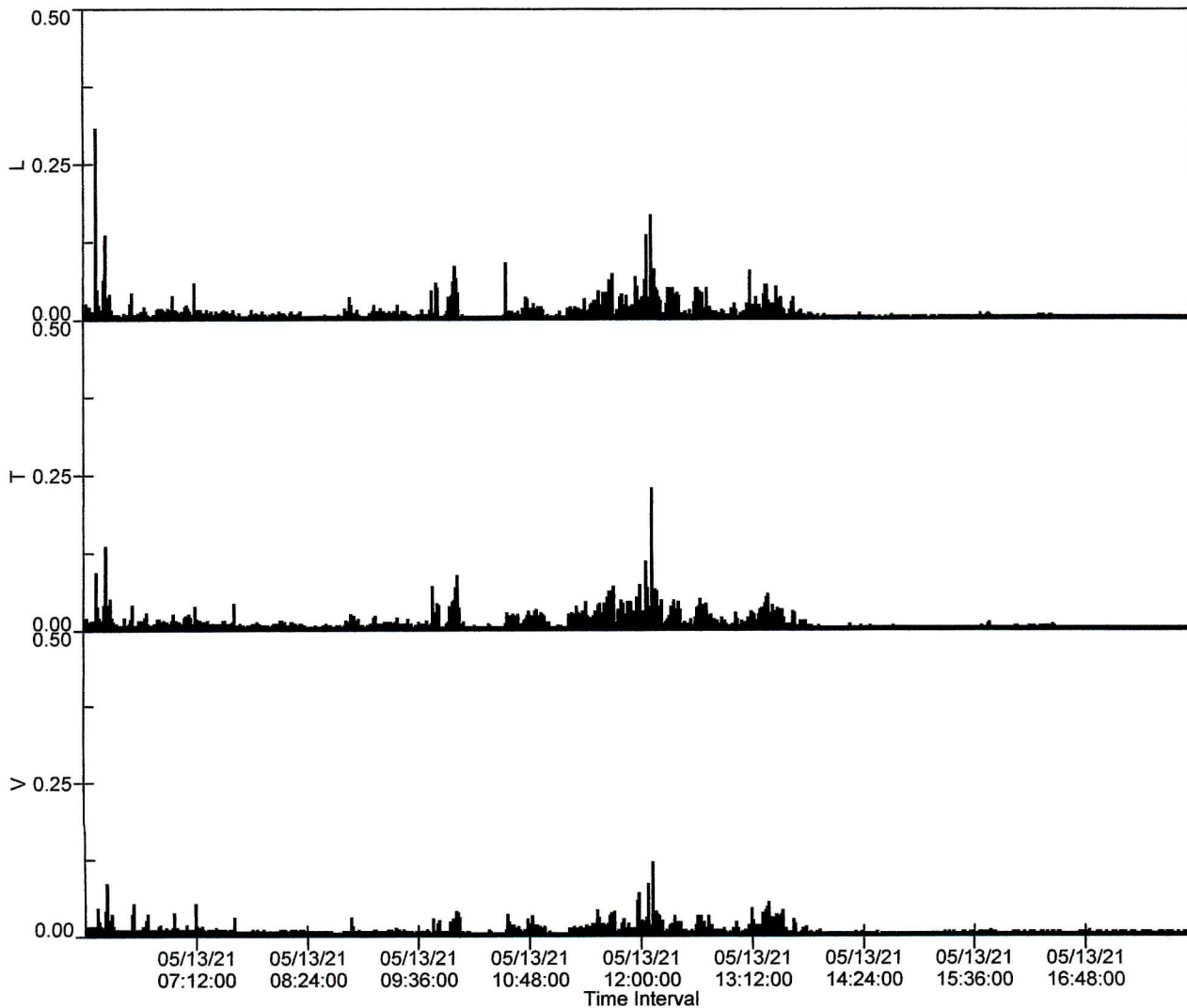
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.308	0.228	0.120
<b>FREQ (Hz)</b>	38.5	29.4	17.2
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 93

Record Max PPV: 0.308 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/14/2021 **Time:** 06:01:00  
**Event:** 94  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

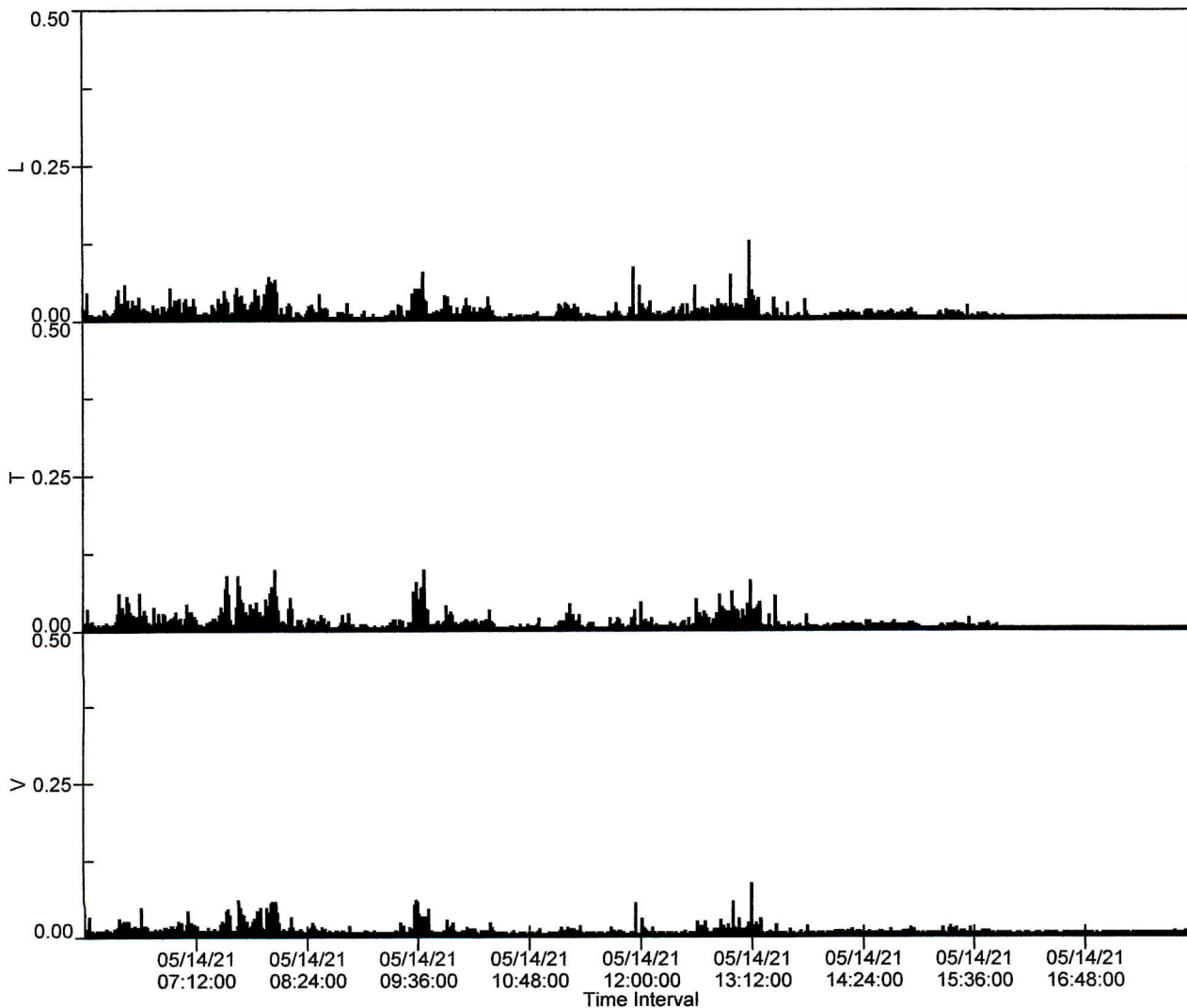
	L	T	V
<b>PPV (in/s)</b>	0.128	0.098	0.088
<b>FREQ (Hz)</b>	13.2	17.9	11.9
<b>Peak Air Pressure:</b>	84 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 94

Record Max PPV: 0.128 in/s Record Max DB: 84 db



**SN:** 3734 v3.22  
**Date:** 05/15/2021 **Time:** 06:01:00  
**Event:** 95  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

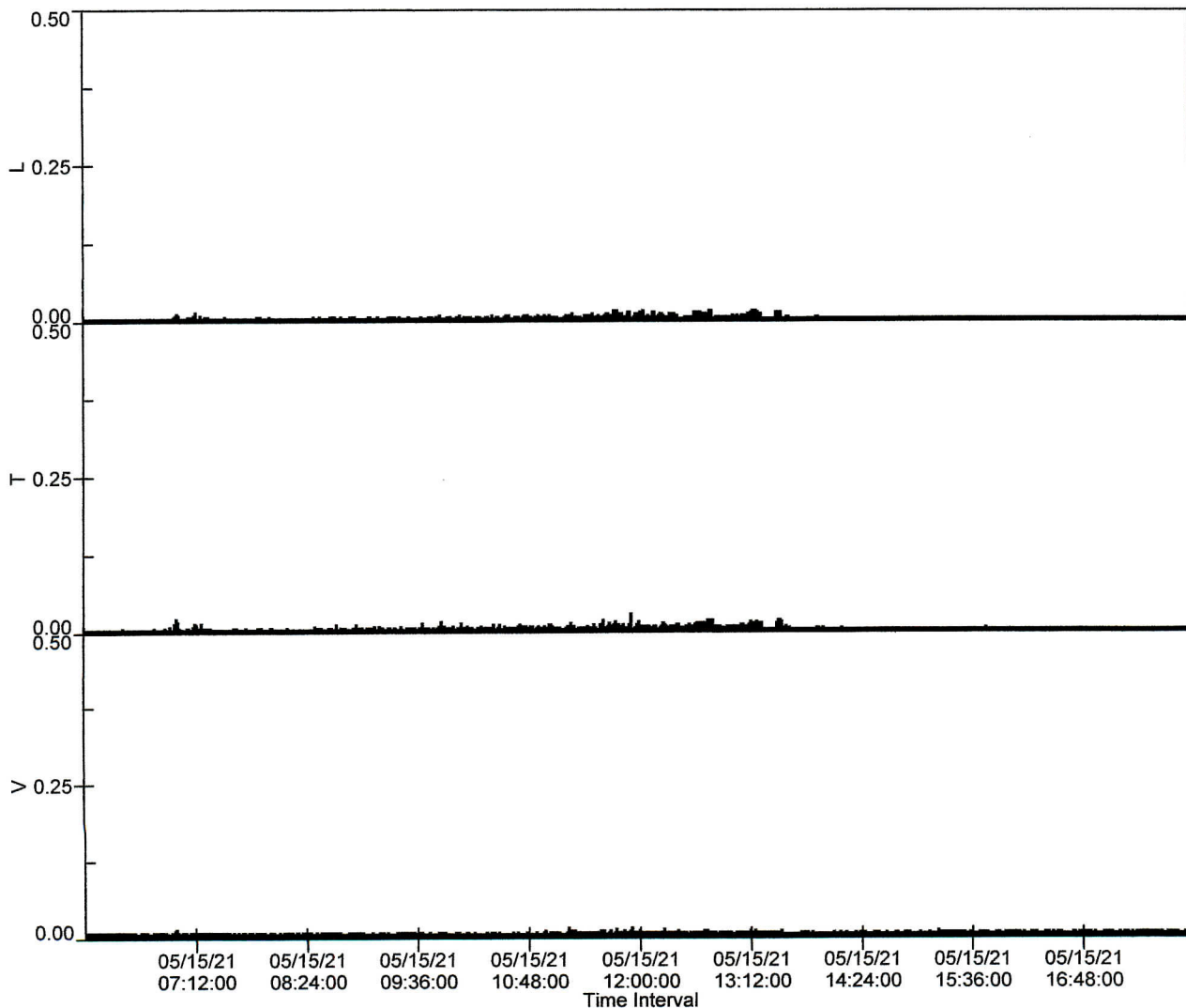
	L	T	V
<b>PPV (in/s)</b>	0.018	0.030	0.018
<b>FREQ (Hz)</b>	12.8	11.1	8.9
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 95

Record Max PPV: 0.030 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/16/2021 **Time:** 06:01:00  
**Event:** 96  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.010	0.010	0.013
<b>FREQ (Hz)</b>	.3	5.4	.2
<b>Peak Air Pressure:</b>	79 db		

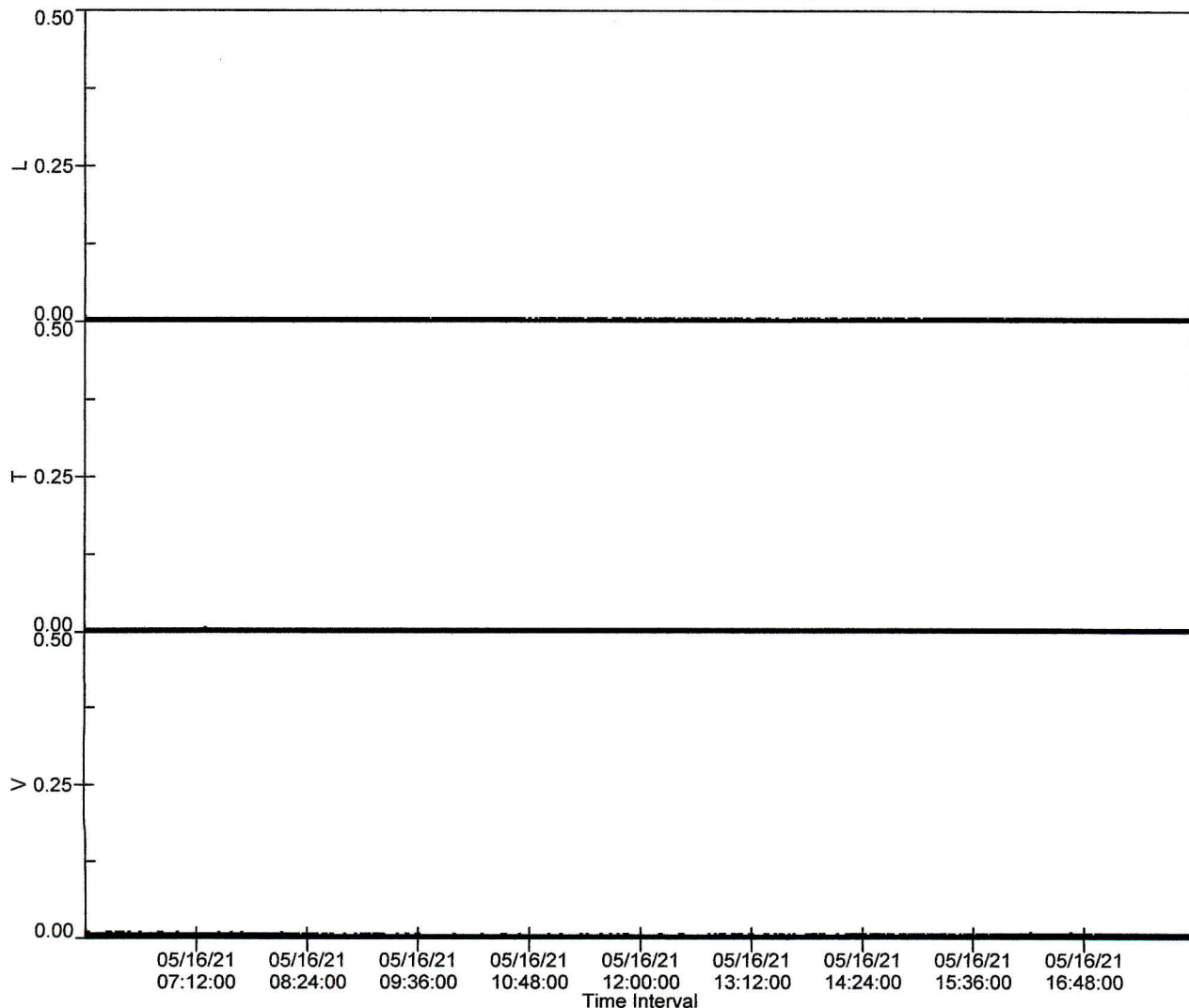
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 96

Record Max PPV: 0.013 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/17/2021 **Time:** 06:01:00  
**Event:** 97  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.158	0.190	0.138
<b>FREQ (Hz)</b>	21.7	17.2	18.5
<b>Peak Air Pressure:</b>	79 db		

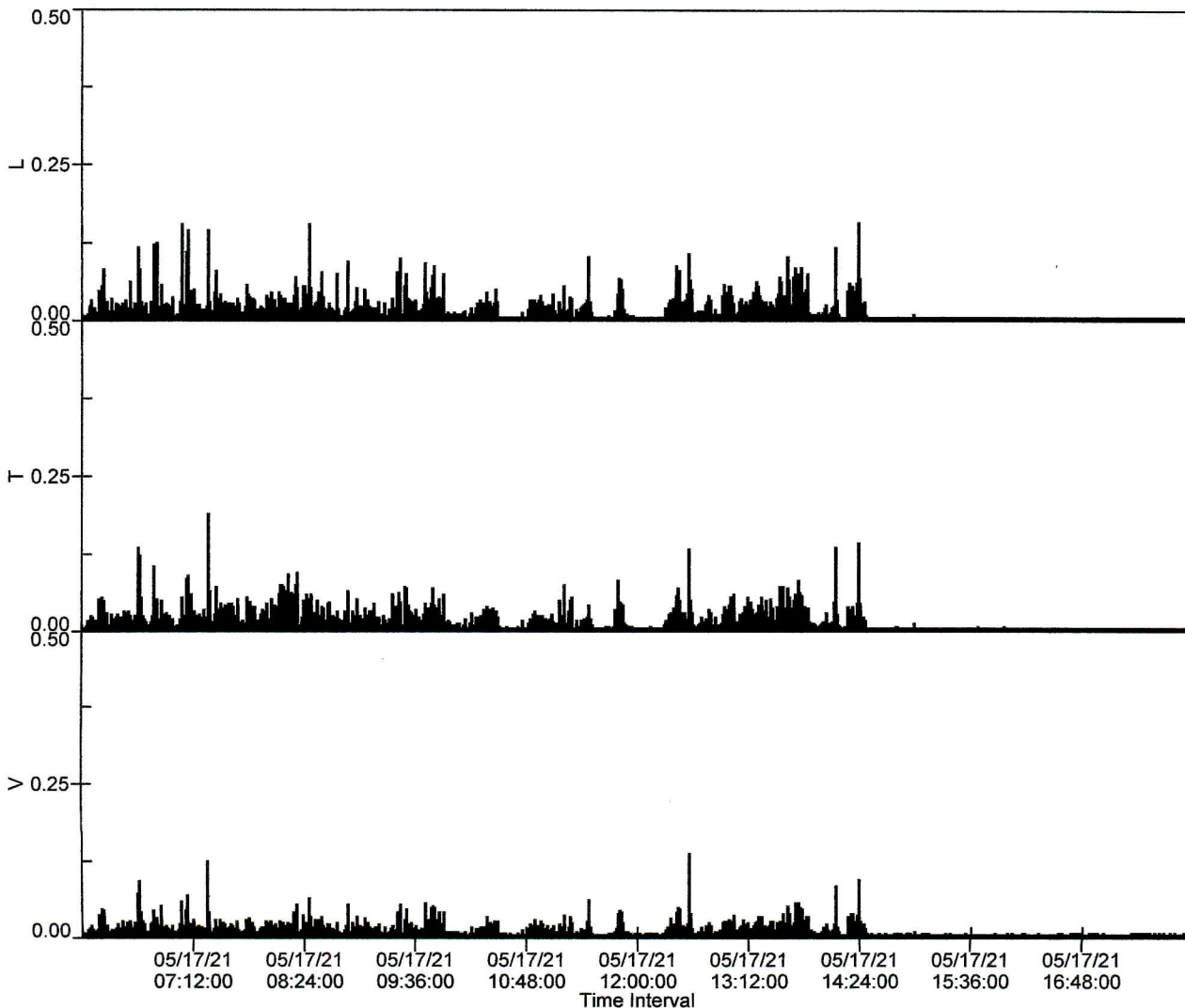
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 97

Record Max PPV: 0.190 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/18/2021 **Time:** 06:01:00  
**Event:** 98  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.313	0.178	0.170
<b>FREQ (Hz)</b>	25.0	27.8	26.3
<b>Peak Air Pressure:</b>	79 db		

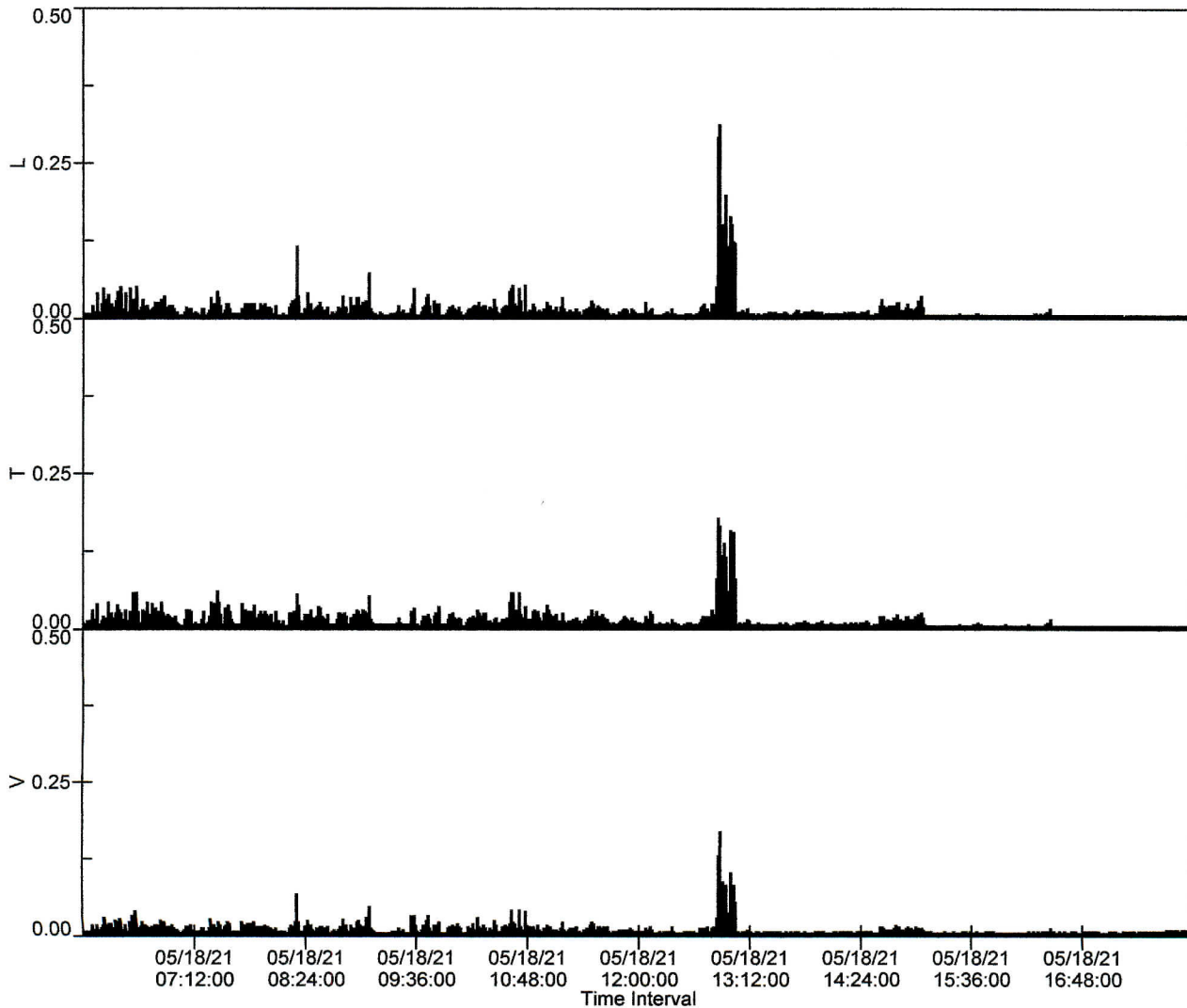
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 98

Record Max PPV: 0.313 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/19/2021 **Time:** 06:01:00  
**Event:** 99  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

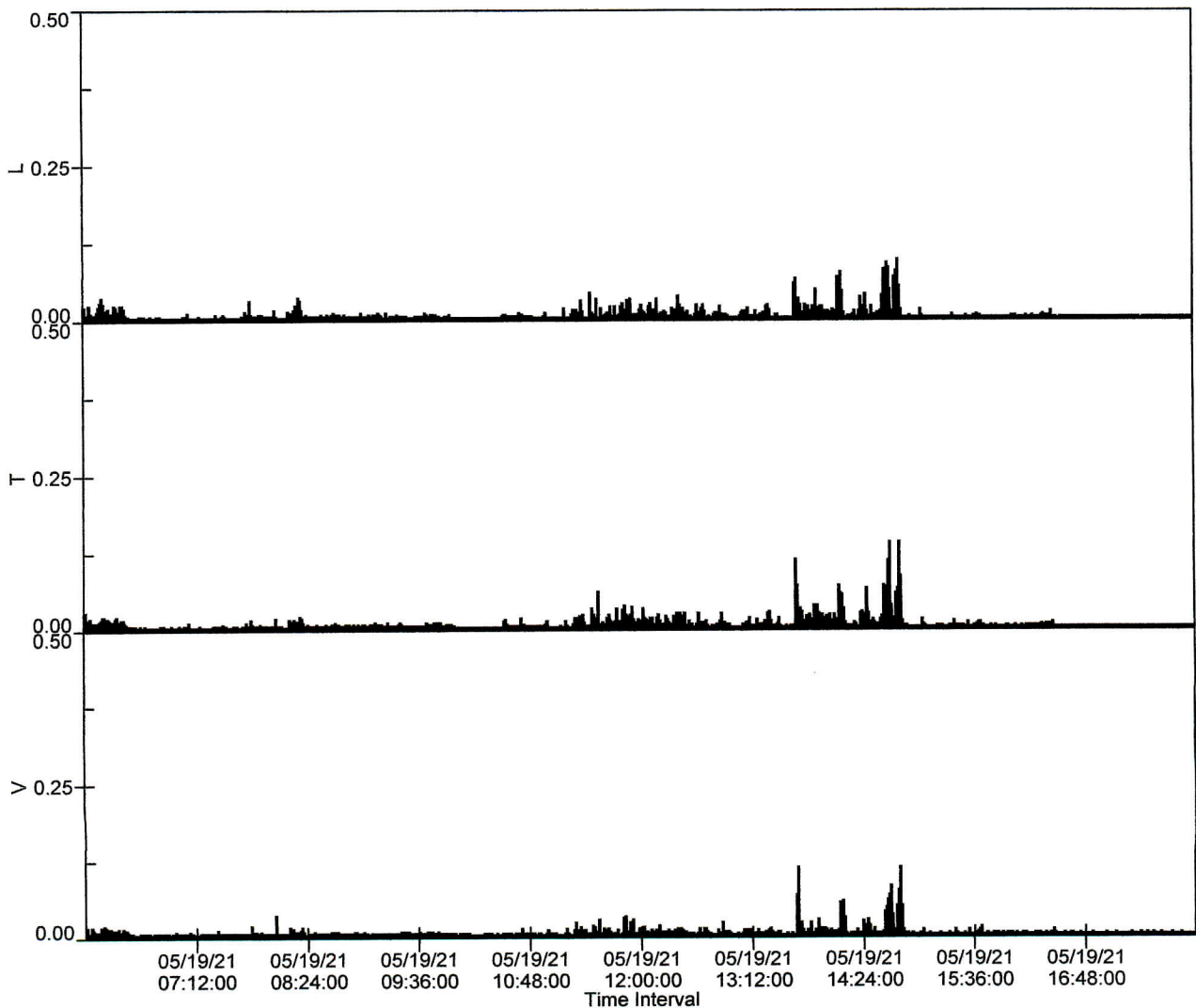
	L	T	V
<b>PPV (in/s)</b>	0.098	0.143	0.115
<b>FREQ (Hz)</b>	23.8	21.7	41.7
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 99

Record Max PPV: 0.143 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/20/2021 **Time:** 06:01:00  
**Event:** 100  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

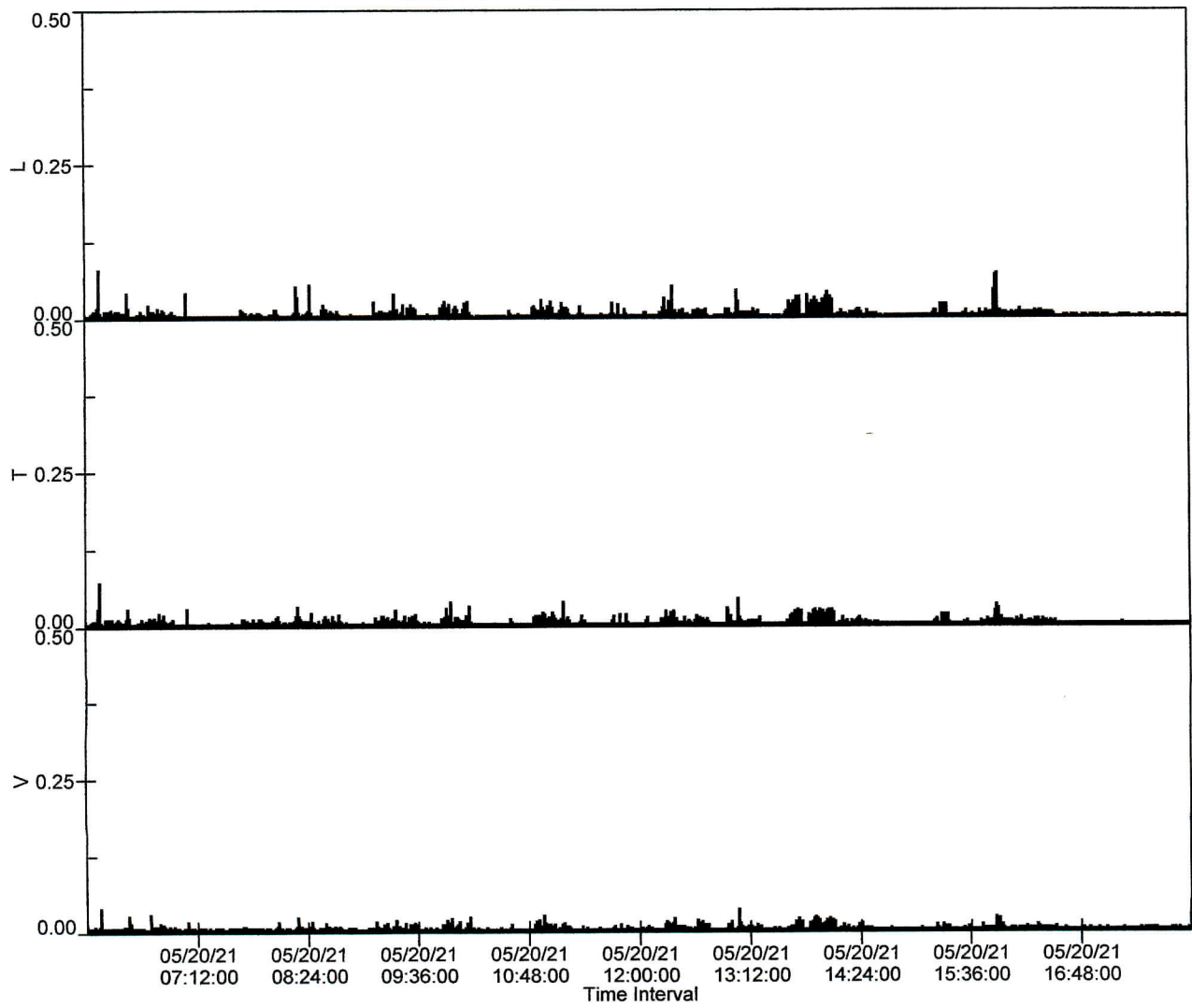
	L	T	V
<b>PPV (in/s)</b>	0.080	0.073	0.040
<b>FREQ (Hz)</b>	20.0	20.8	18.5
<b>Peak Air Pressure:</b>	82 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 100

Record Max PPV: 0.080 in/s Record Max DB: 82 db





**SN:** 3734 v3.22  
**Date:** 05/21/2021 **Time:** 06:01:00  
**Event:** 101  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.218	0.175	0.135
<b>FREQ (Hz)</b>	25.0	55.6	71.4
<b>Peak Air Pressure:</b>	79 db		

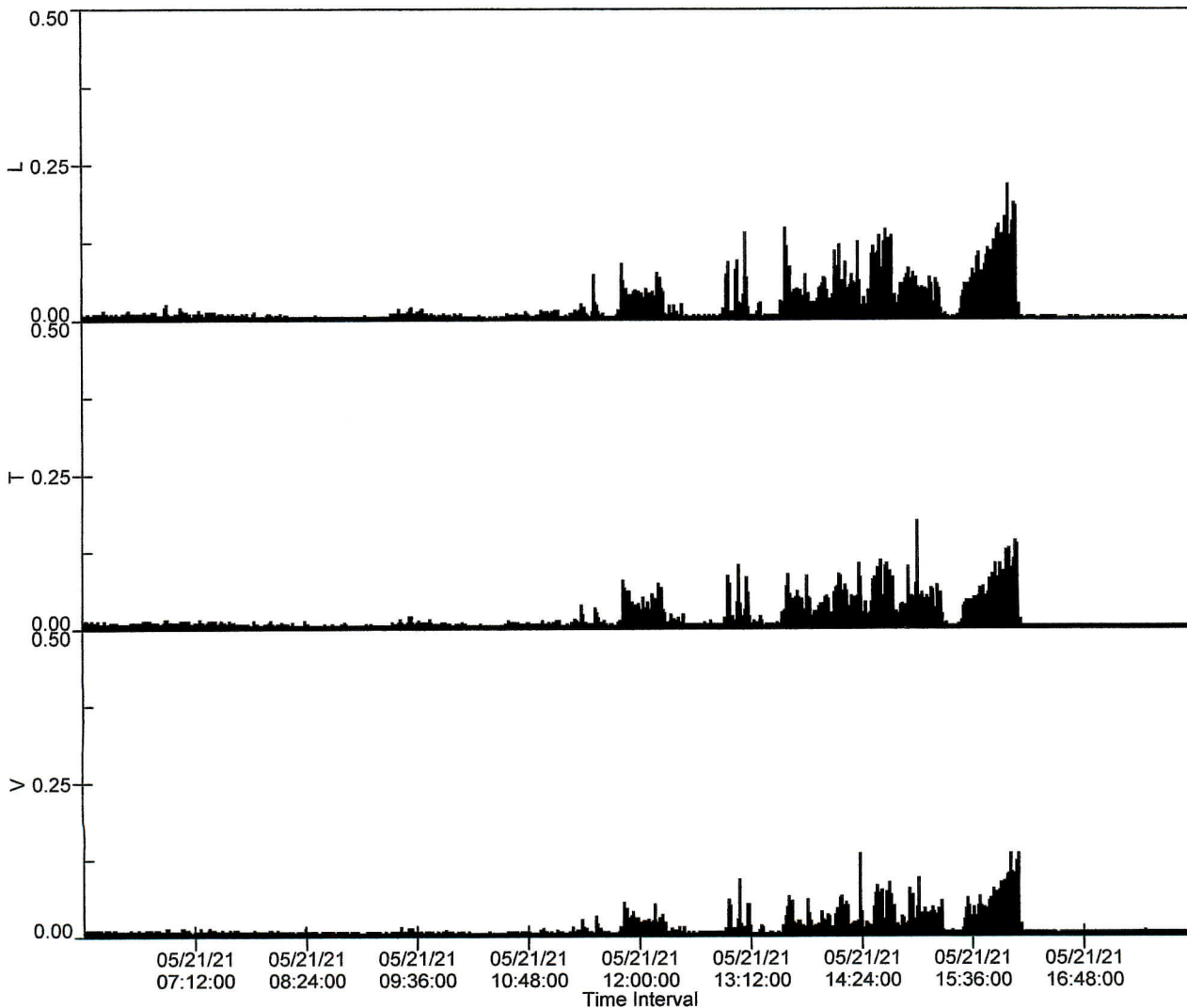
**Recording Time:** 718 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 101

Record Max PPV: 0.218 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/22/2021 **Time:** 06:01:00  
**Event:** 102  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

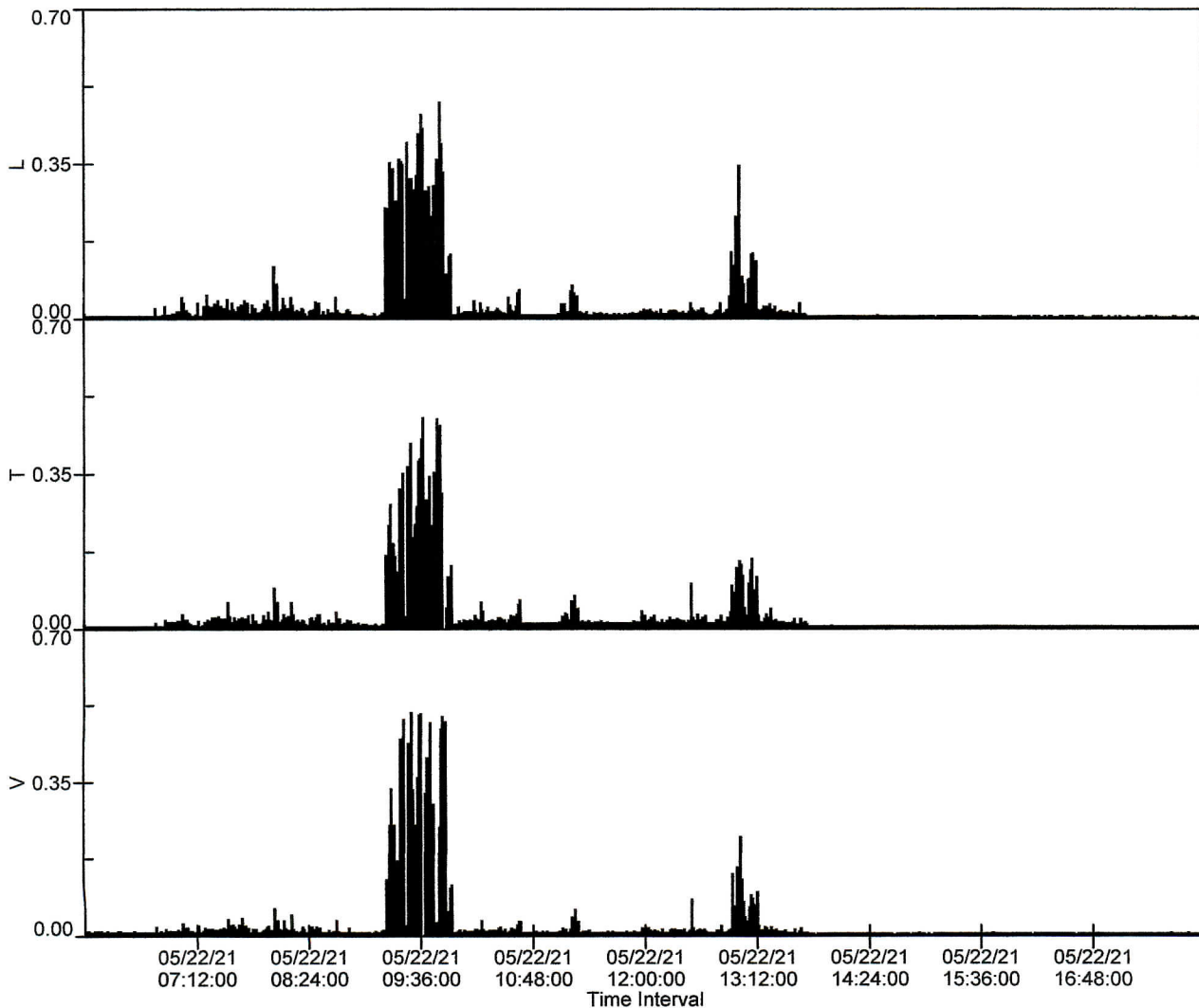
	<b>L</b>	<b>T</b>	<b>V</b>
<b>PPV (in/s)</b>	0.488	0.473	0.490
<b>FREQ (Hz)</b>	22.7	22.7	35.7
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 102

Record Max PPV: 0.490 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/23/2021 **Time:** 06:01:00  
**Event:** 103  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

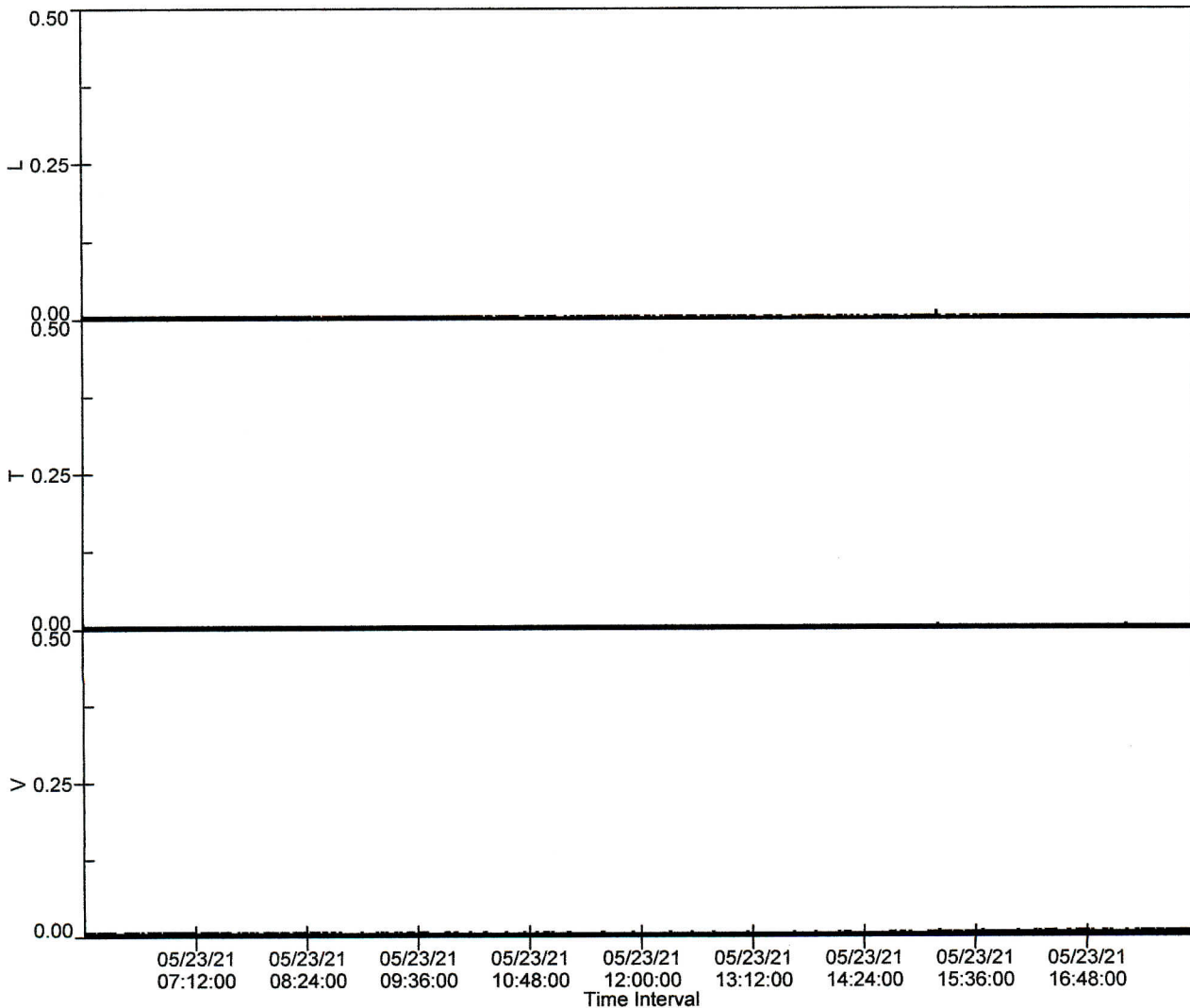
	L	T	V
<b>PPV (in/s)</b>	0.013	0.010	0.010
<b>FREQ (Hz)</b>	29.4	2.4	27.8
<b>Peak Air Pressure:</b>	79 db		
<b>Recording Time:</b>	718 minutes		
<b>Sample Size:</b>	1440		
<b>Interval Size:</b>	60 seconds		

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 103

Record Max PPV: 0.013 in/s Record Max DB: 79 db



**SN:** 3734 v3.22  
**Date:** 05/24/2021 **Time:** 06:01:00  
**Event:** 104  
**Client:** V3 COMPANIES  
**Operation:** CONSTRUCTION  
**Location:** HIBBARD PARK  
**Distance:** 15.  
**Operator:** CTI INC  
**Comment:** 3000 HILL STREET

**Continuous Monitor Recording  
Summary Data**

	L	T	V
<b>PPV (in/s)</b>	0.025	0.023	0.028
<b>FREQ (Hz)</b>	38.5	62.5	38.5
<b>Peak Air Pressure:</b>	82 db		

**Recording Time:** 43 minutes  
**Sample Size:** 1440  
**Interval Size:** 60 seconds

**Additional Info:**

**Shaketable Calibrated:** 10/14/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 104

Record Max PPV: 0.028 in/s Record Max DB: 82 db

