

Wilmette WSNP Community Park Project
Wilmette, Illinois

VIBRATION MONITORING REPORT-7

Woodward D. Schultz
Berger
1205 Garland Rd
Wauconda, IL 60084

August 4, 2020

Cti



4262 Old Grand Ave
Suite 102
Chicago, IL 60031

August 4, 2020

Woodward D. Schultz
Berger
1205 Garland Rd
Wauconda, IL 60084

RE: **Report 7:** - *Ground Vibration Monitoring for the Wilmette WSNP Community Park Project located in Wilmette, Illinois.*

Mr. Schultz,

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 nine seismographs, all located around the surrounding project site (see attached location diagram). This summary report covers the monitoring period from **July 20, 2020 through August 2, 2020.**

The vibration equipment at the site are Geosonic WR3000LC 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.

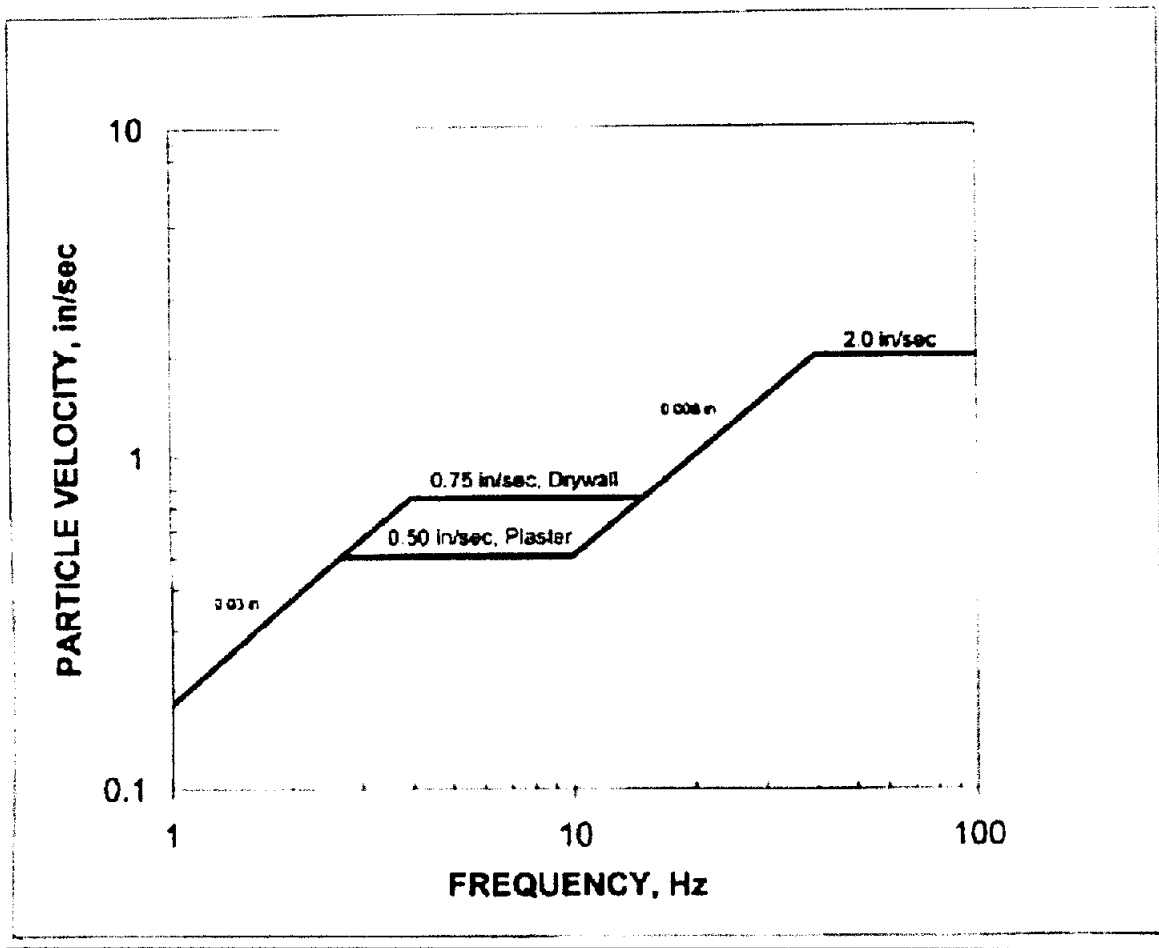
All vibration recordings during this report period have been below the 0.50-inch per second threshold limit. The maximum PPV for the monitoring period are below.

July 23, 2020	Location #1	Unit #8289	V	0.125 (in/s)
July 20, 2020	Location #2	Unit #3559	V	0.115 (in/s)
July 31, 2020	Location #3	Unit #3804	L	0.108 (in/s)
July 22, 2020	Location #4	Unit #5033	T	0.275 (in/s)
July 29, 2020	Location #5	Unit #3802	L	0.213 (in/s)
July 29, 2020	Location #6	Unit #3775	L	0.110 (in/s)
July 20, 2020	Location #7	Unit #3733	L	0.118 (in/s)
August 1, 2020	Location #8	Unit #8336	L	0.108 (in/s)
July 21, 2020	Location #9	Unit #5259	L	0.145 (in/s)

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

Sincerely,

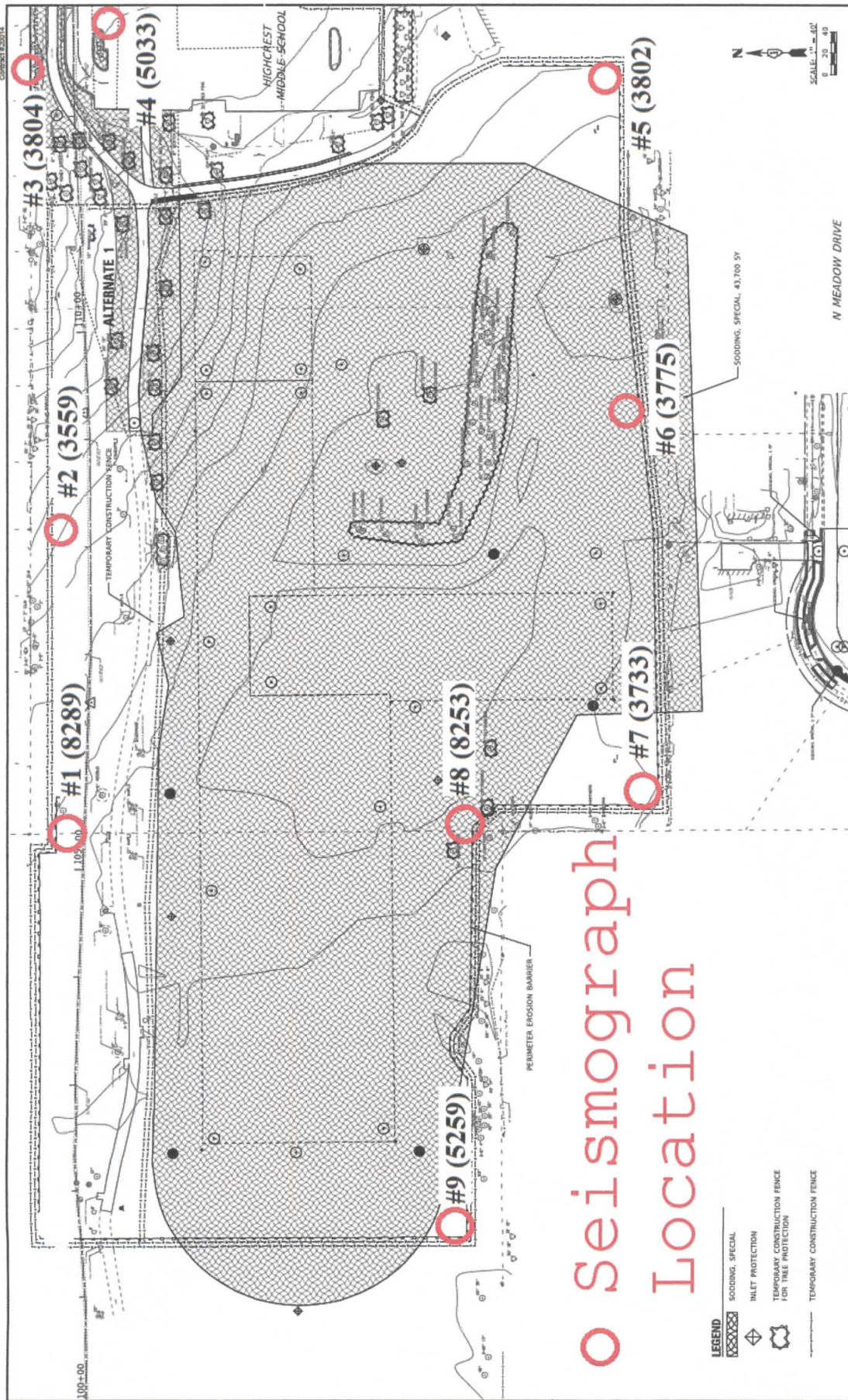
Daniel W. McCarthy
Senior Instrumentation Engineer



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 low 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.



Seismograph
Location

- LEGEND**
- SODDING, SPECIAL
 - INLET PROTECTION
 - TEMPORARY CONSTRUCTION FENCE FOR TREE PROTECTION
 - TEMPORARY CONSTRUCTION FENCE

CRISTOPHER B. BURKE ENGINEERING, LTD. 6575 W. High Road, Suite 600 Rosemont, Illinois 60018 (847) 825-0500		BAXTER & WOODMAN CONSULTING ENGINEERS	
PROJECT NO. WSNP-01 DATE: 01-29-2020 SHEET NO. OF 37 DRAWING NO. 69	TITLE WSNP CONTRACT 1 COMMUNITY PARK EROSION CONTROL PLAN	DESIGNER DATE SCALE PLOT DATE CADD USER CHECKED FILE NAME	DRAWN DATE SCALE PLOT DATE CADD USER CHECKED FILE NAME

Village of Wilmette
 1200 WILMETTE AVENUE
 WILMETTE, IL 60091-0040

DESIGNER DATE SCALE PLOT DATE CADD USER CHECKED FILE NAME	DRAWN DATE SCALE PLOT DATE CADD USER CHECKED FILE NAME
---	--

SN: 8289 v3.66
Date: 07/20/2020 **Time:** 14:27:00
Event: 32
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.015	0.018	0.015
FREQ (Hz)	14.3	10.9	11.9
Peak Air Pressure:	89 db		

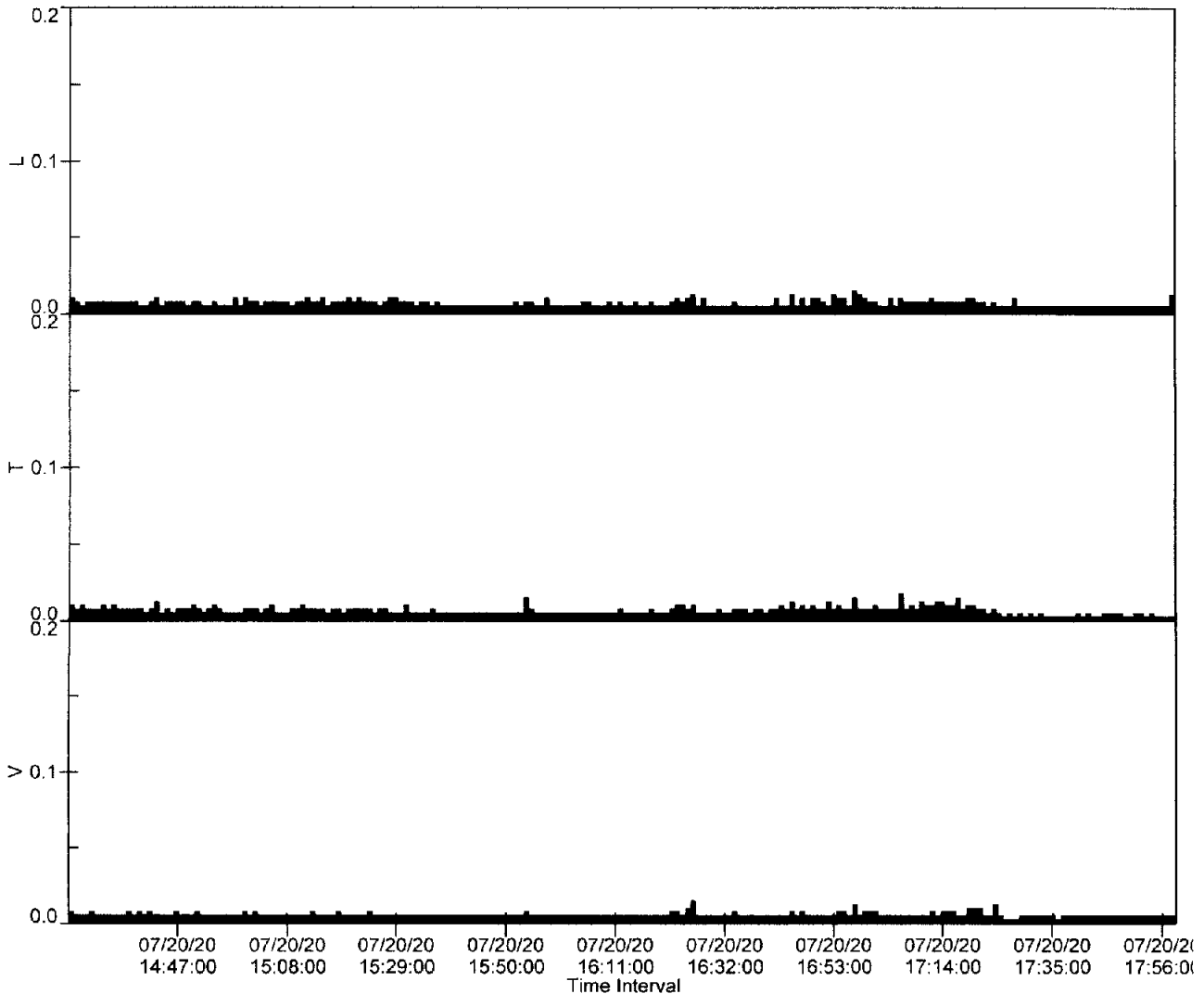
Recording Time: 212 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 32

Record Max PPV: 0.018 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/21/2020 **Time:** 06:01:00
Event: 33
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.008	0.008
FREQ (Hz)	83.3	2.5	.3
Peak Air Pressure:	84 db		

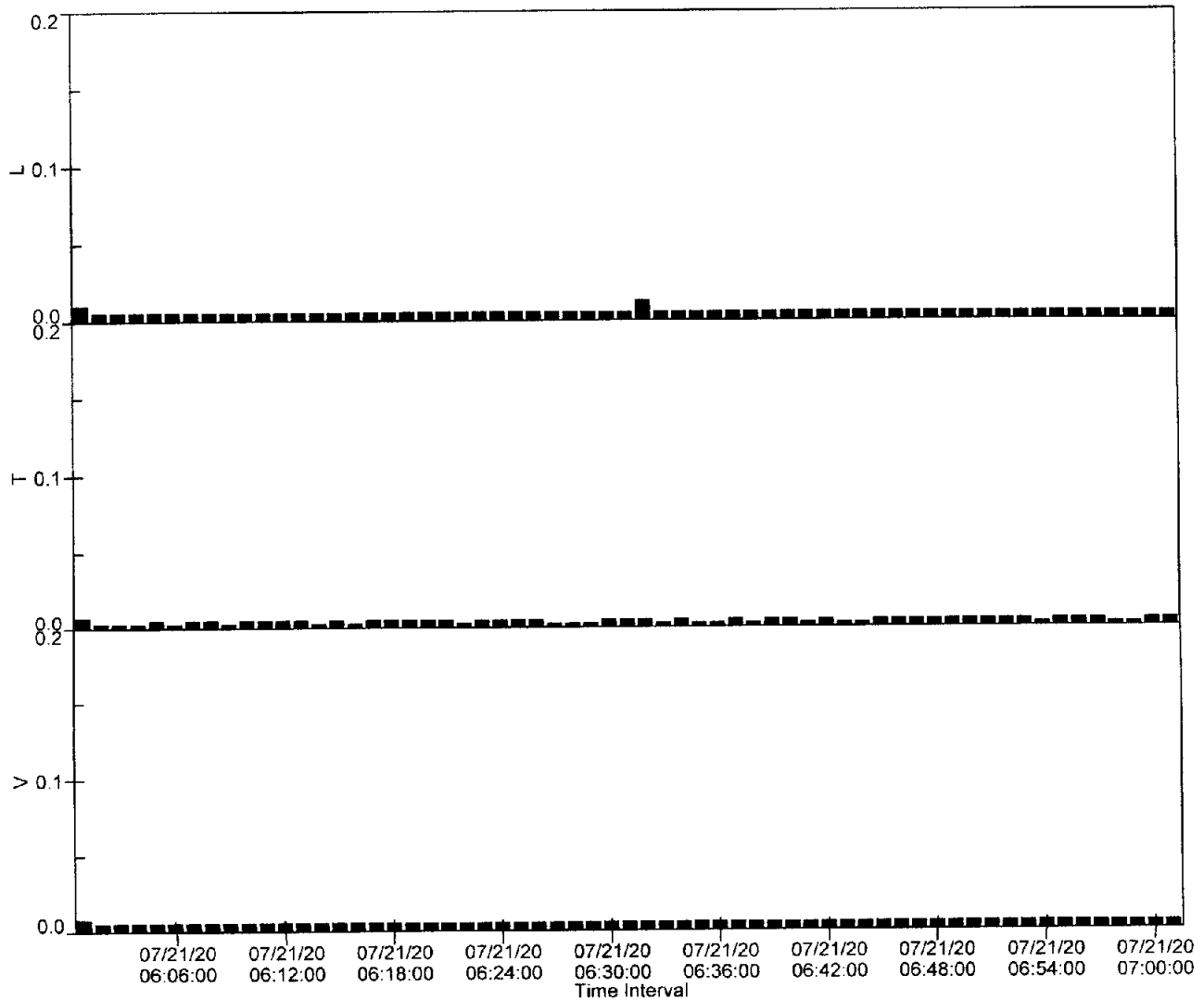
Recording Time: 61 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 33

Record Max PPV: 0.013 in/s Record Max DB: 84 db



SN: 8289 v3.66
Date: 07/22/2020 **Time:** 06:01:00
Event: 34
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.010	0.008
FREQ (Hz)	166.7	2.6	.3
Peak Air Pressure:	84 db		

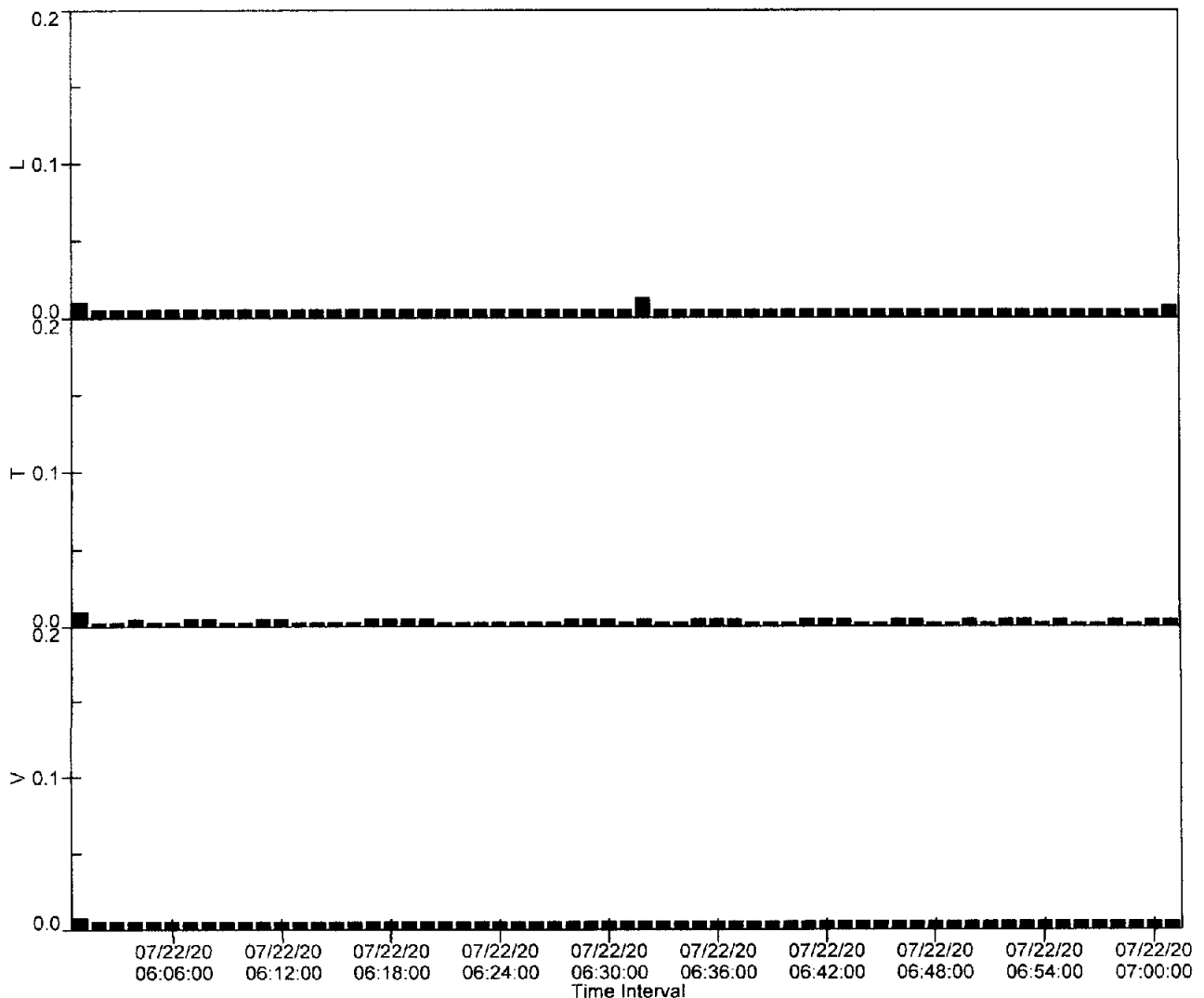
Recording Time: 61 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 34

Record Max PPV: 0.013 in/s Record Max DB: 84 db



SN: 8289 v3.66
Date: 07/23/2020 **Time:** 06:01:00
Event: 35
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.075	0.085	0.125
FREQ (Hz)	15.6	19.2	18.5
Peak Air Pressure:	89 db		

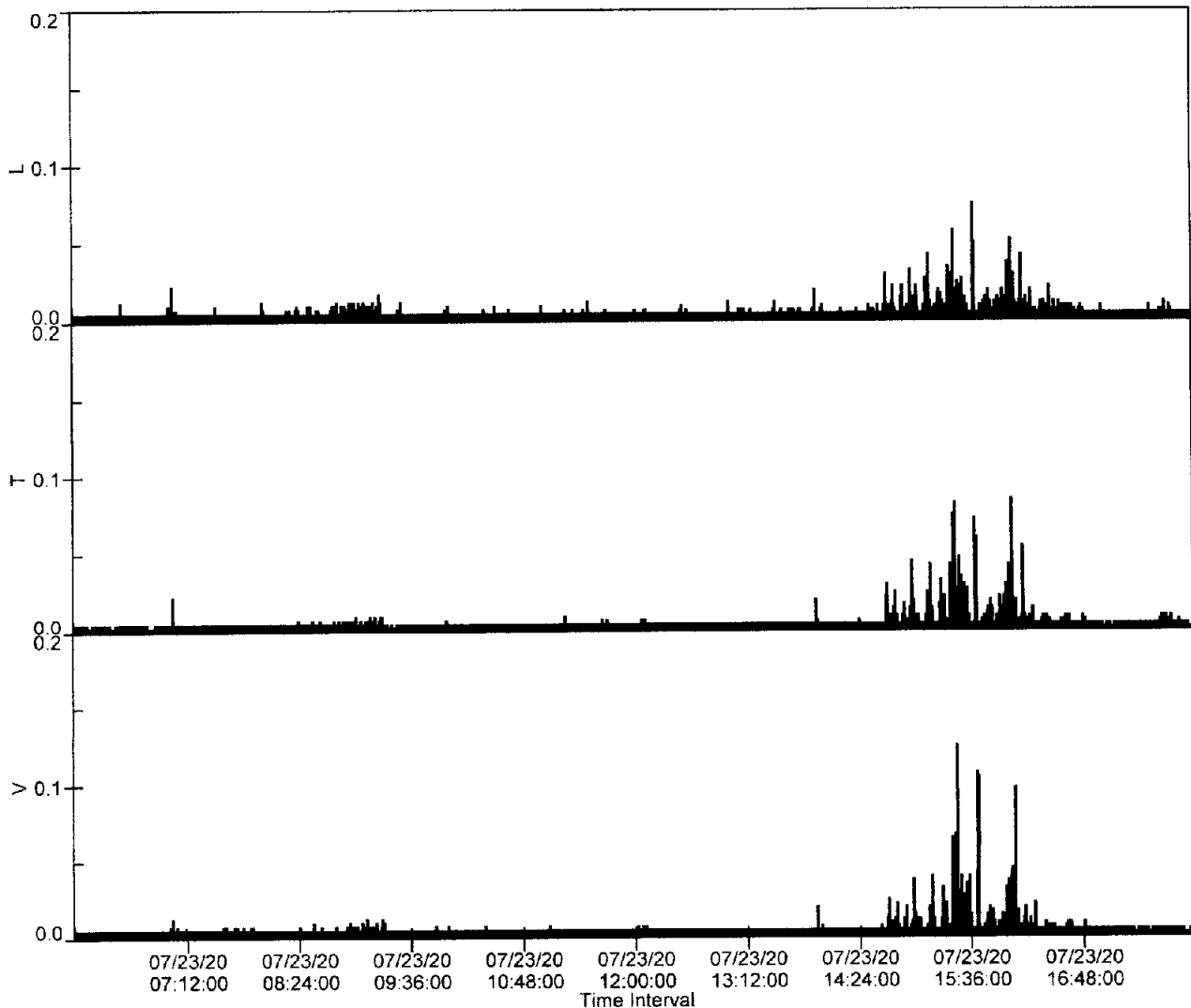
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 35

Record Max PPV: 0.125 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/24/2020 **Time:** 06:01:00
Event: 36
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.038	0.033	0.050
FREQ (Hz)	15.6	9.1	9.8
Peak Air Pressure:	89 db		

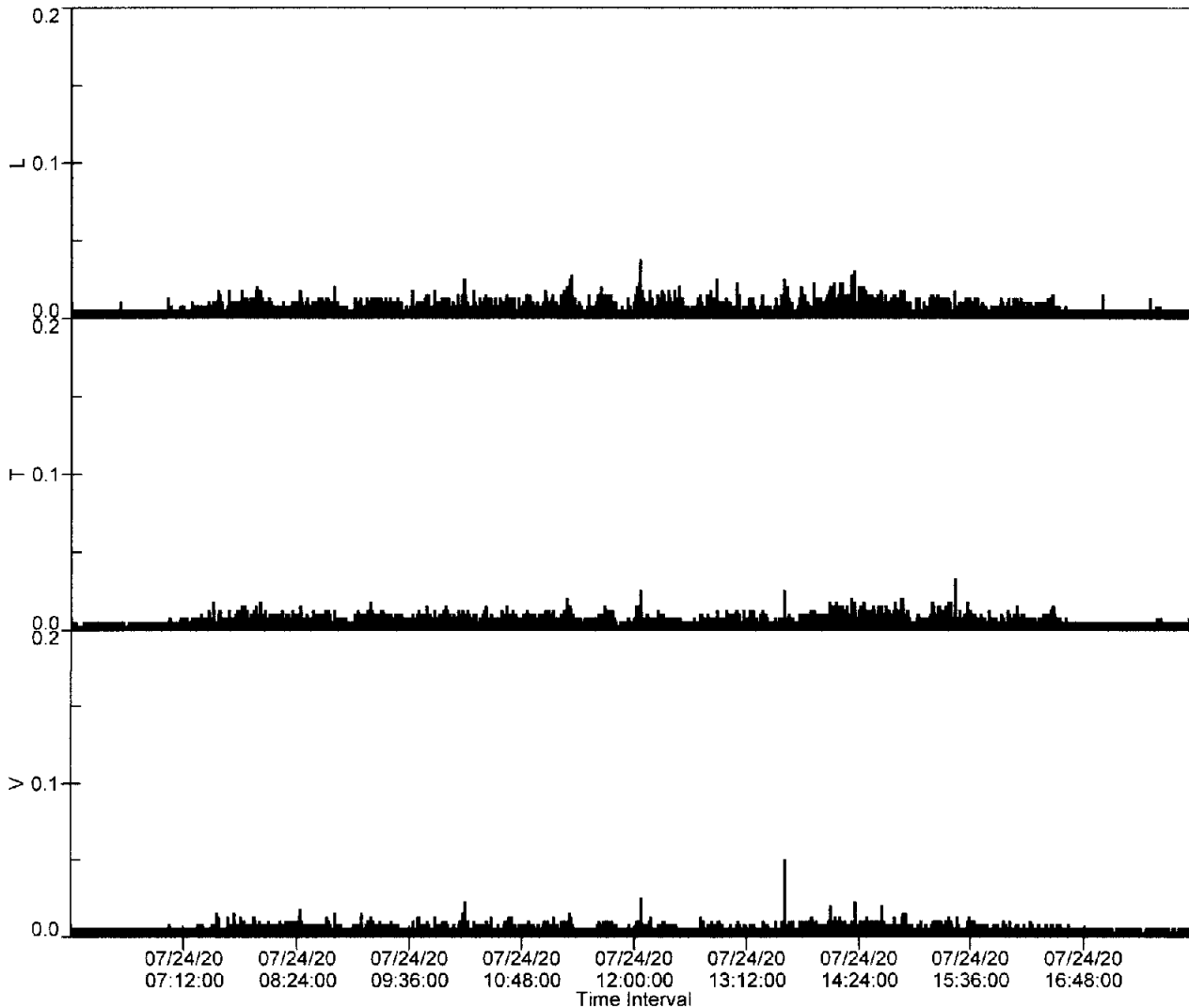
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 36

Record Max PPV: 0.050 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/25/2020 **Time:** 06:01:00
Event: 37
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.013	0.018
FREQ (Hz)	11.9	13.9	13.2
Peak Air Pressure:	89 db		

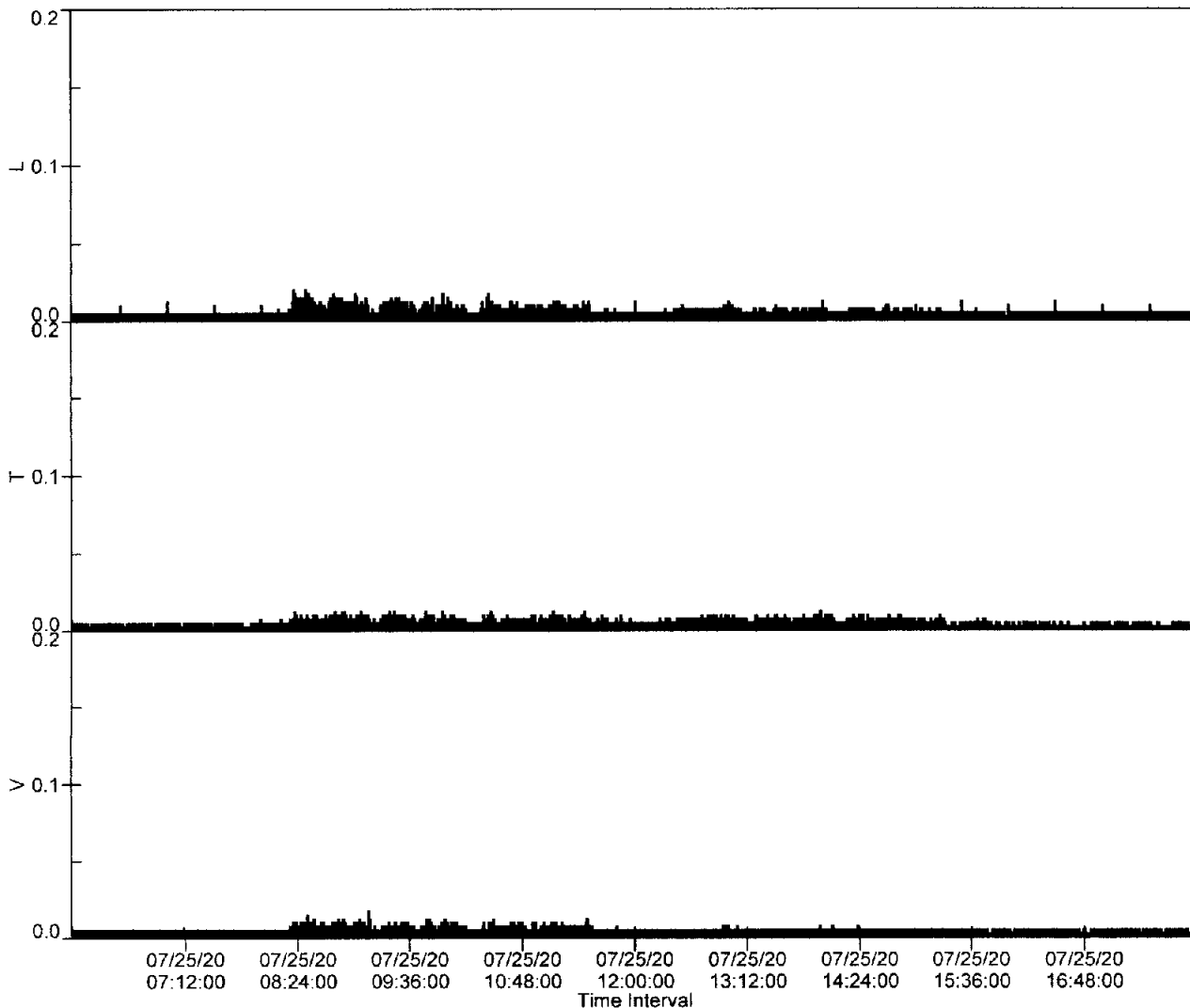
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 37

Record Max PPV: 0.020 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/26/2020 **Time:** 06:01:00
Event: 38
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.008	0.008
FREQ (Hz)	166.7	2.6	.4
Peak Air Pressure:	89 db		

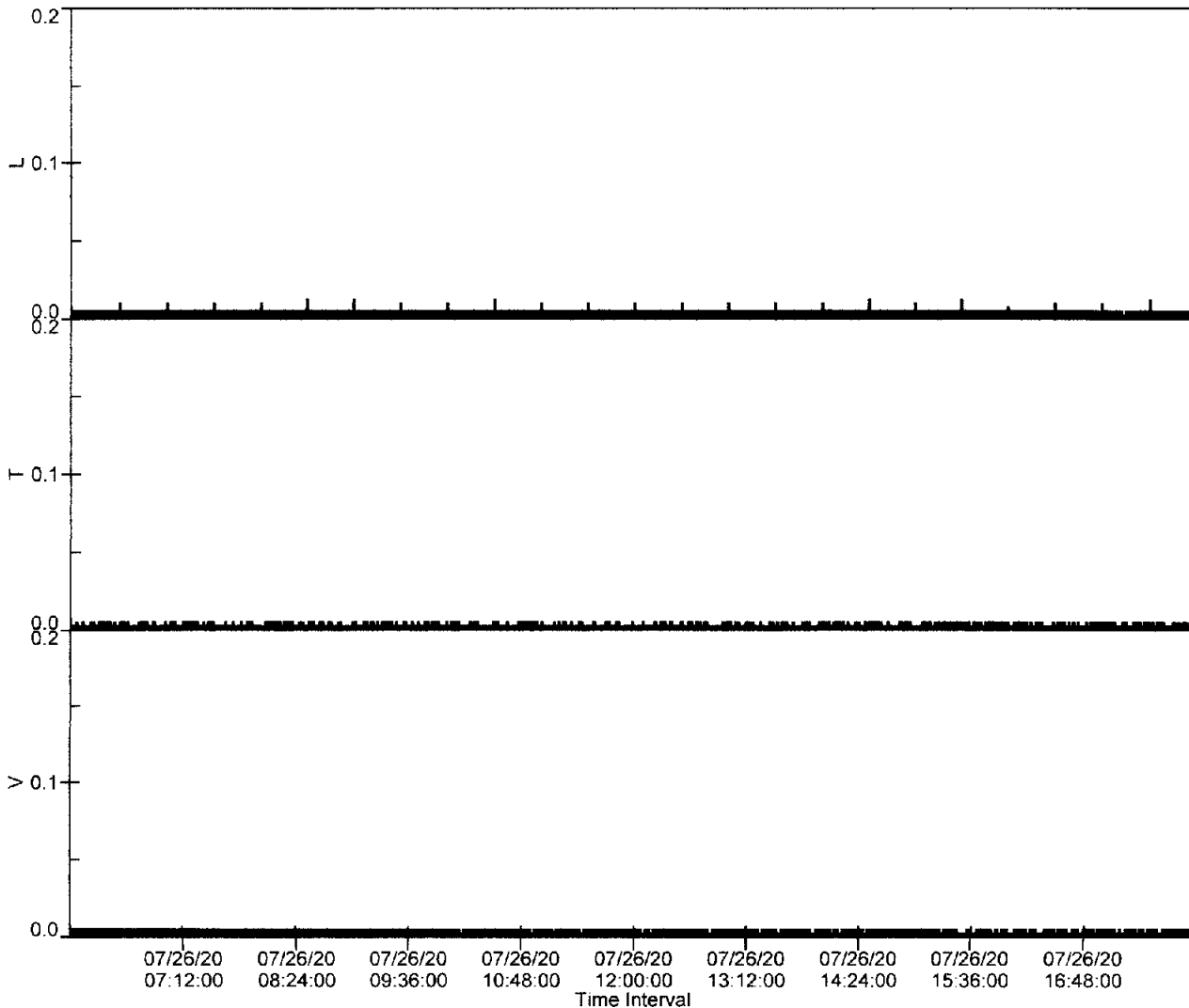
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 38

Record Max PPV: 0.013 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/27/2020 **Time:** 06:01:00
Event: 39
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.015	0.015
FREQ (Hz)	12.8	13.5	13.2
Peak Air Pressure:	89 db		

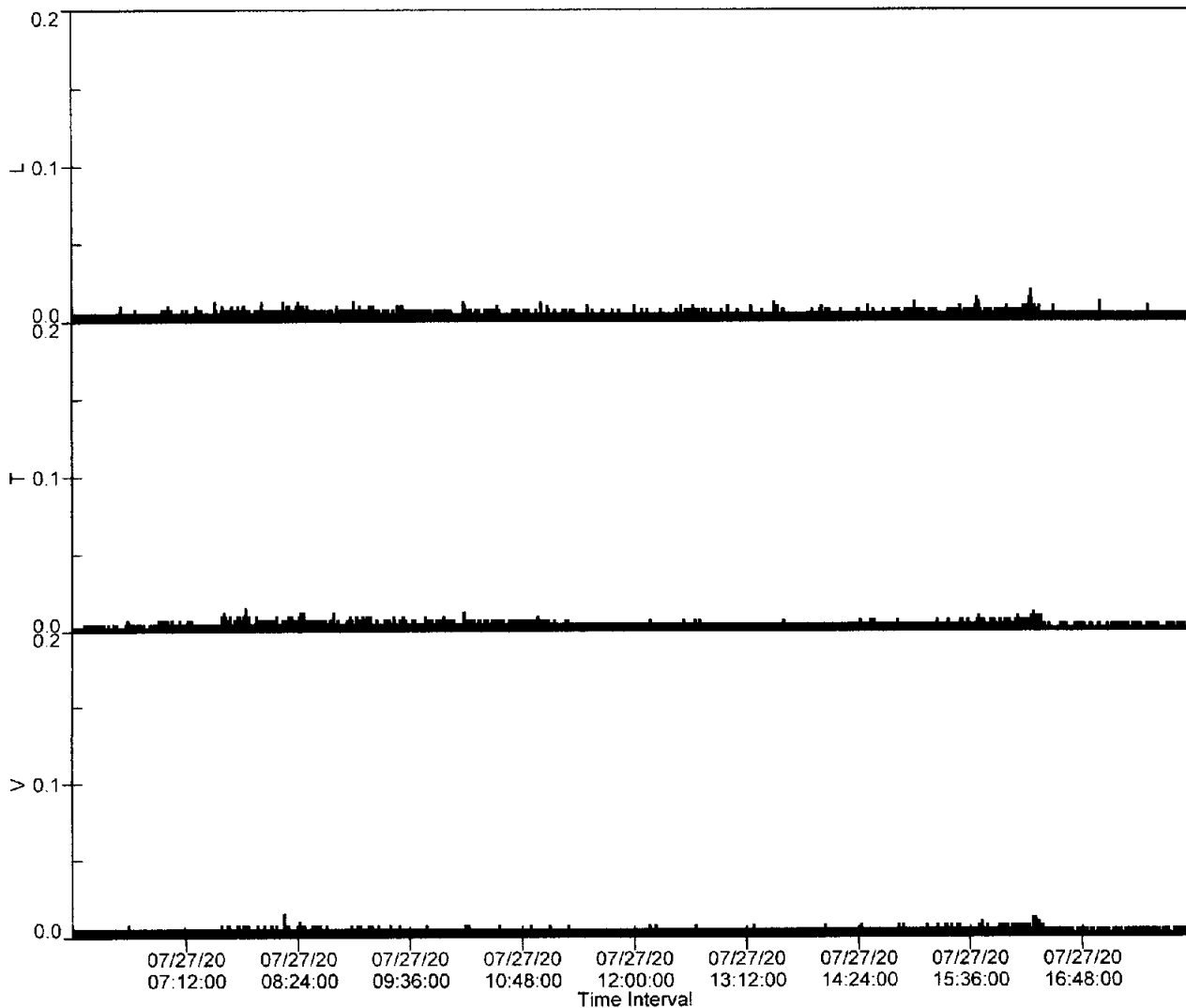
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 39

Record Max PPV: 0.020 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/28/2020 **Time:** 06:01:00
Event: 40
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CFI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.013	0.020
FREQ (Hz)	13.5	16.7	14.7
Peak Air Pressure:	92 db		

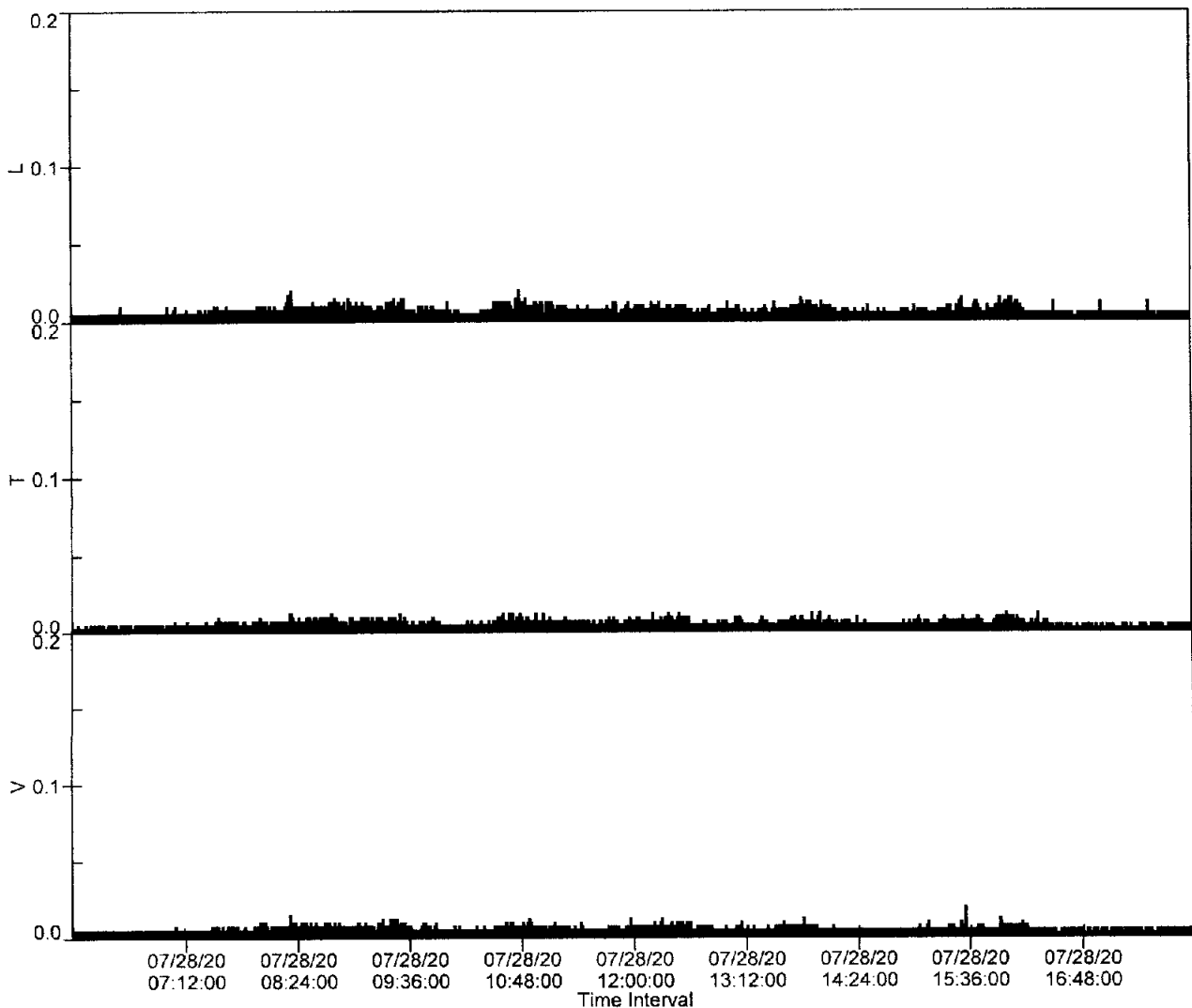
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 40

Record Max PPV: 0.020 in/s Record Max DB: 92 db



SN: 8289 v3.66
Date: 07/29/2020 **Time:** 06:01:00
Event: 41
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.018	0.020
FREQ (Hz)	16.1	12.8	13.2
Peak Air Pressure:	89 db		

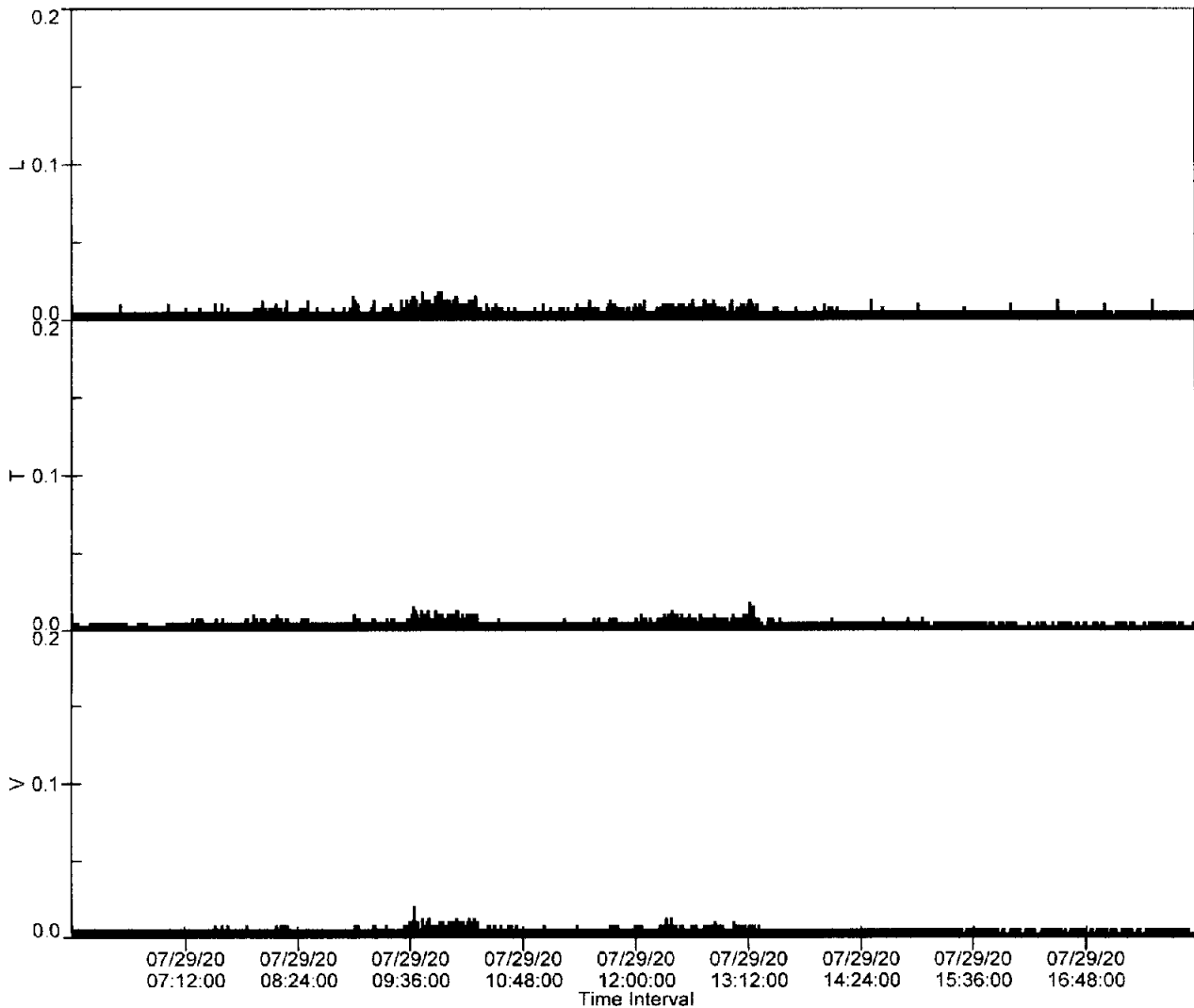
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 41

Record Max PPV: 0.020 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 07/30/2020 **Time:** 06:01:00
Event: 42
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.015	0.008
FREQ (Hz)	250.0	10.4	.3
Peak Air Pressure:	87 db		

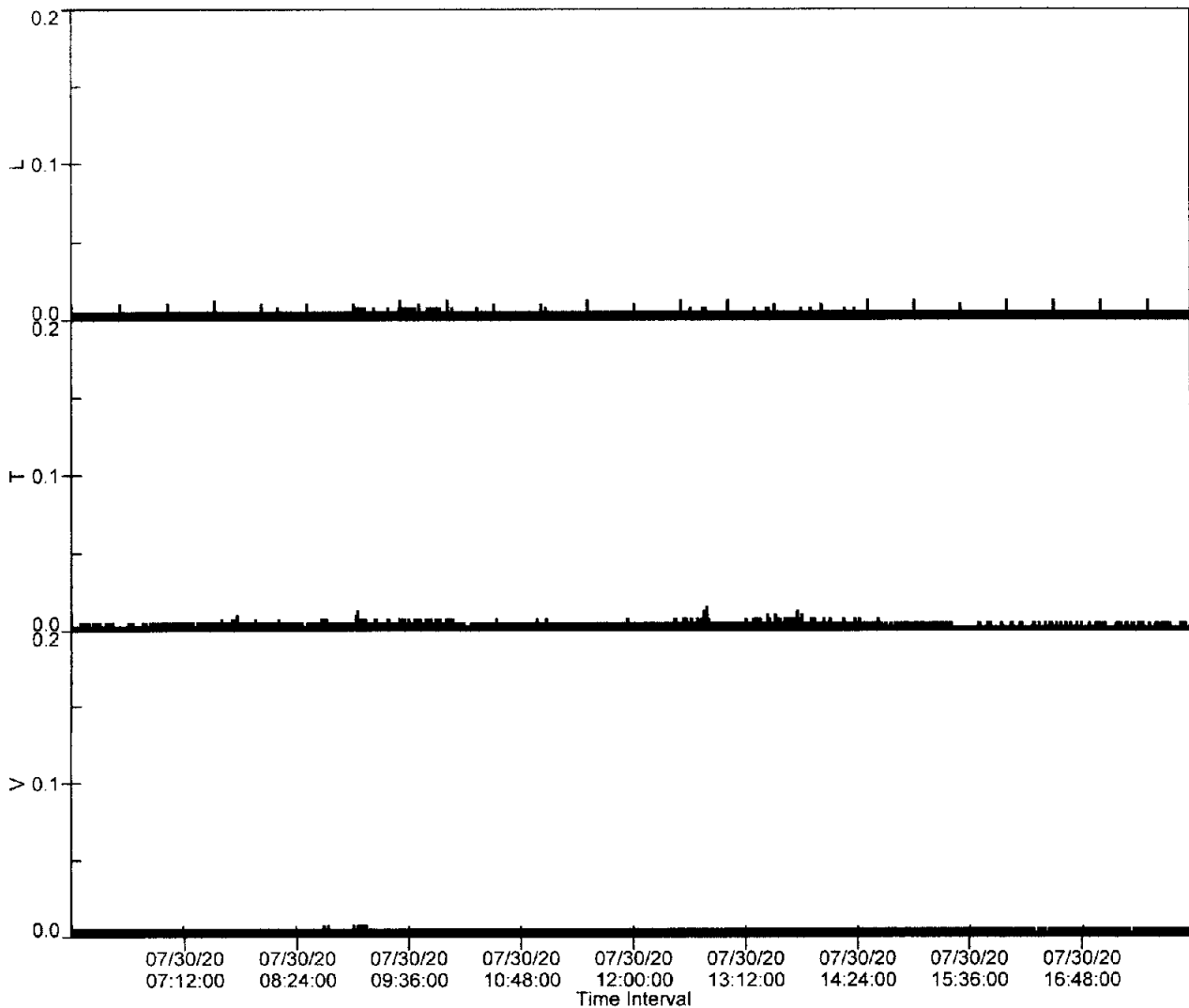
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 42

Record Max PPV: 0.015 in/s Record Max DB: 87 db



SN: 8289 v3.66
Date: 07/31/2020 **Time:** 06:01:00
Event: 43
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.030	0.045	0.035
FREQ (Hz)	50.0	41.7	50.0
Peak Air Pressure:	89 db		

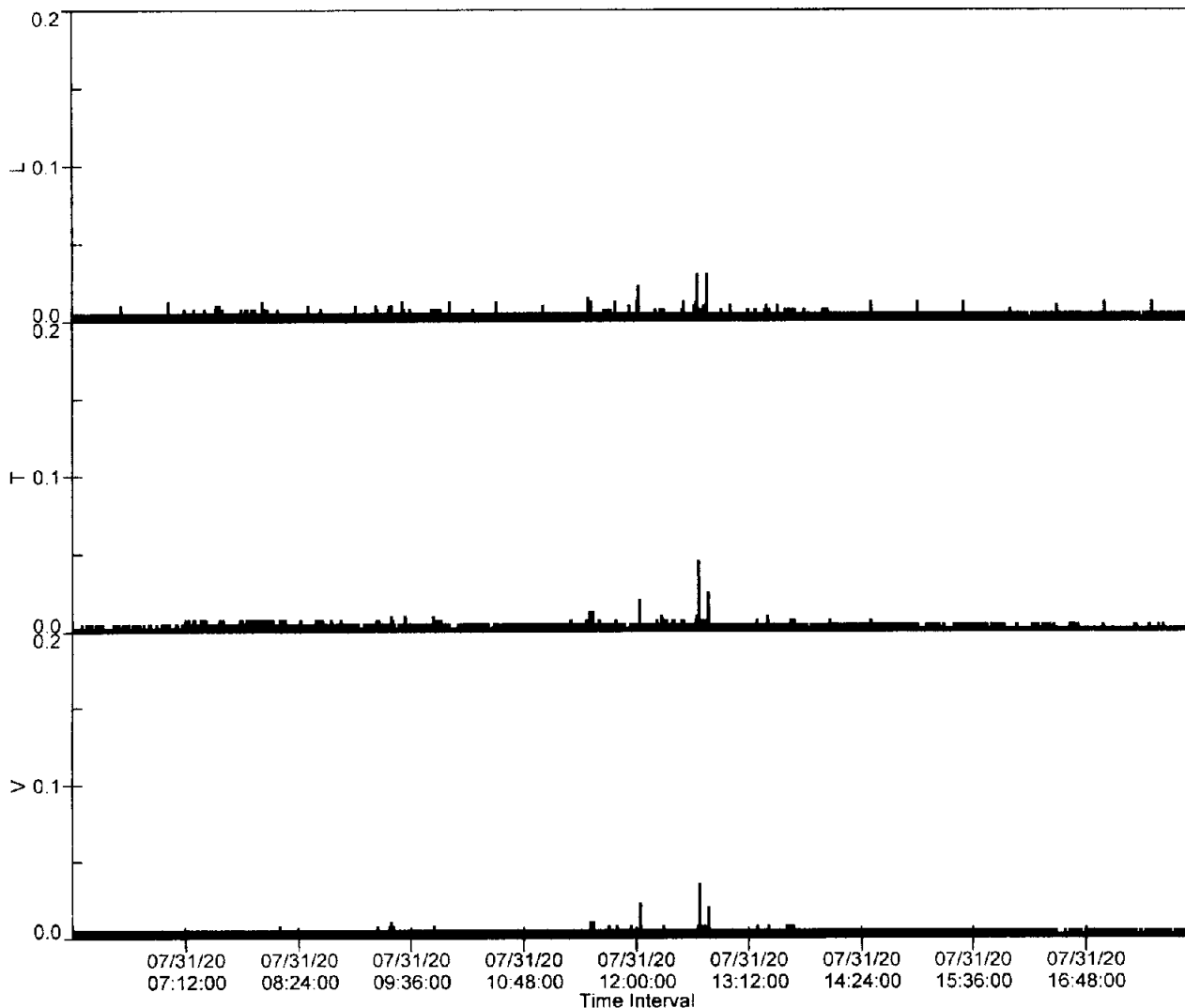
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 43

Record Max PPV: 0.045 in/s Record Max DB: 89 db



SN: 8289 v3.66
Date: 08/01/2020 **Time:** 06:01:00
Event: 44
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.013	0.008	0.008
FREQ (Hz)	166.7	4.2	.3
Peak Air Pressure:	87 db		

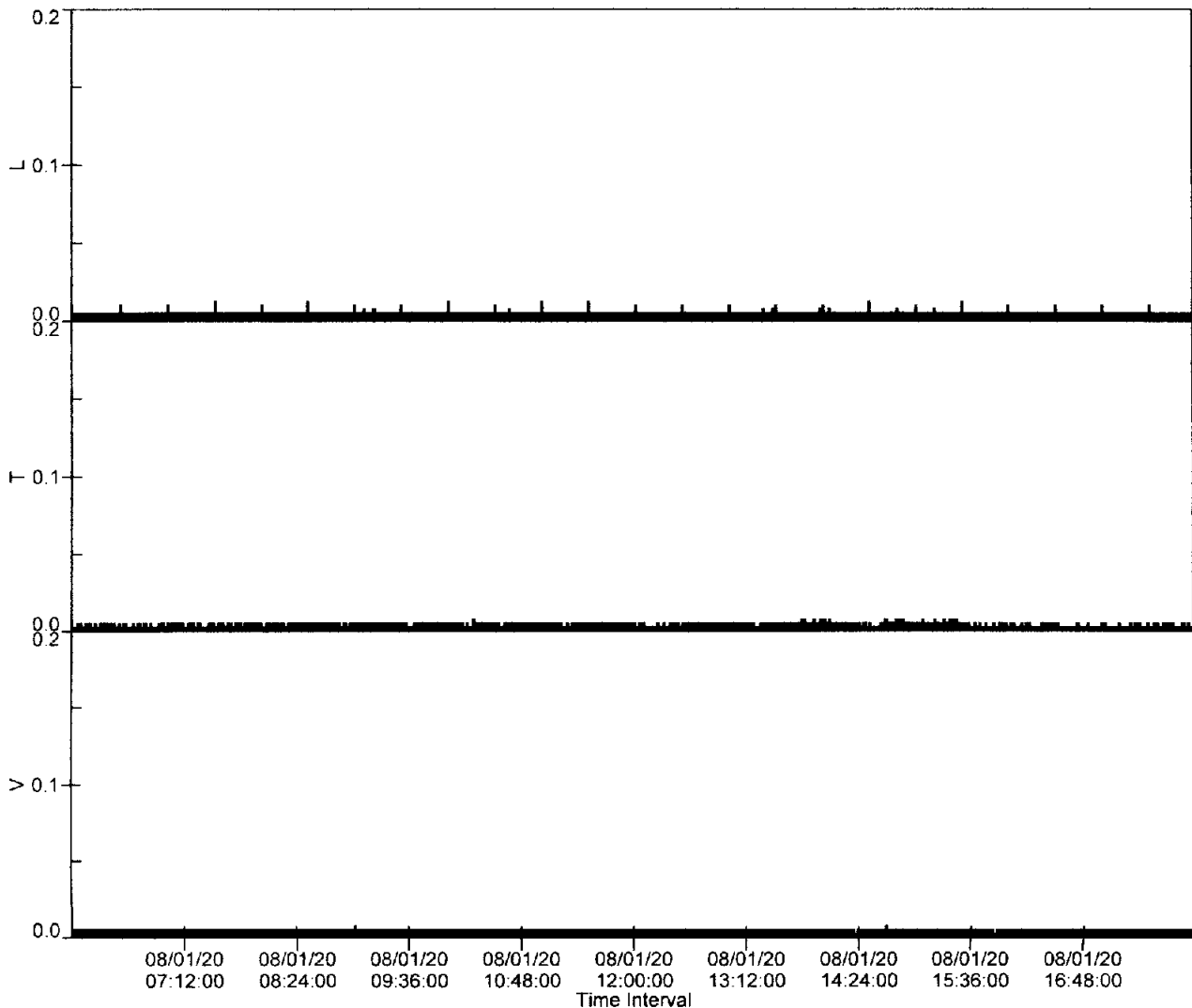
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 44

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



SN: 8289 v3.66
Date: 08/02/2020 **Time:** 06:01:00
Event: 45
Client: BERGER CONST
Operation: EXCAVATION
Location: #1 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.010	0.010	0.008
FREQ (Hz)	.2	15.2	.3
Peak Air Pressure: 78 db			

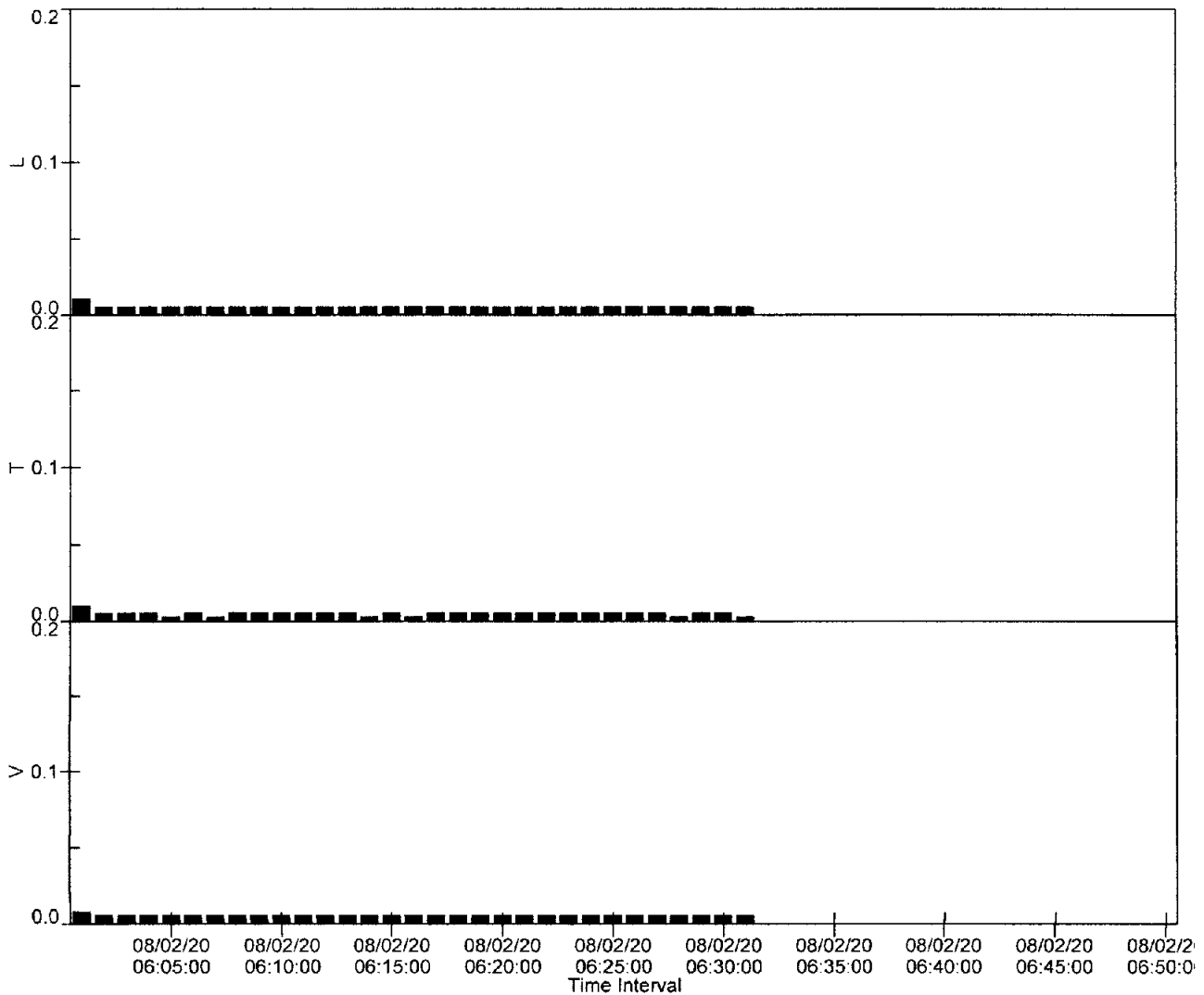
Recording Time: 31 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8289 Event: 45

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



SN: 3559 v2.75
Date: 07/20/2020 **Time:** 06:01:00
Event: 81
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.078	0.055	0.115
FREQ (Hz)	16.1	16.1	14.7
Peak Air Pressure:	78 db		

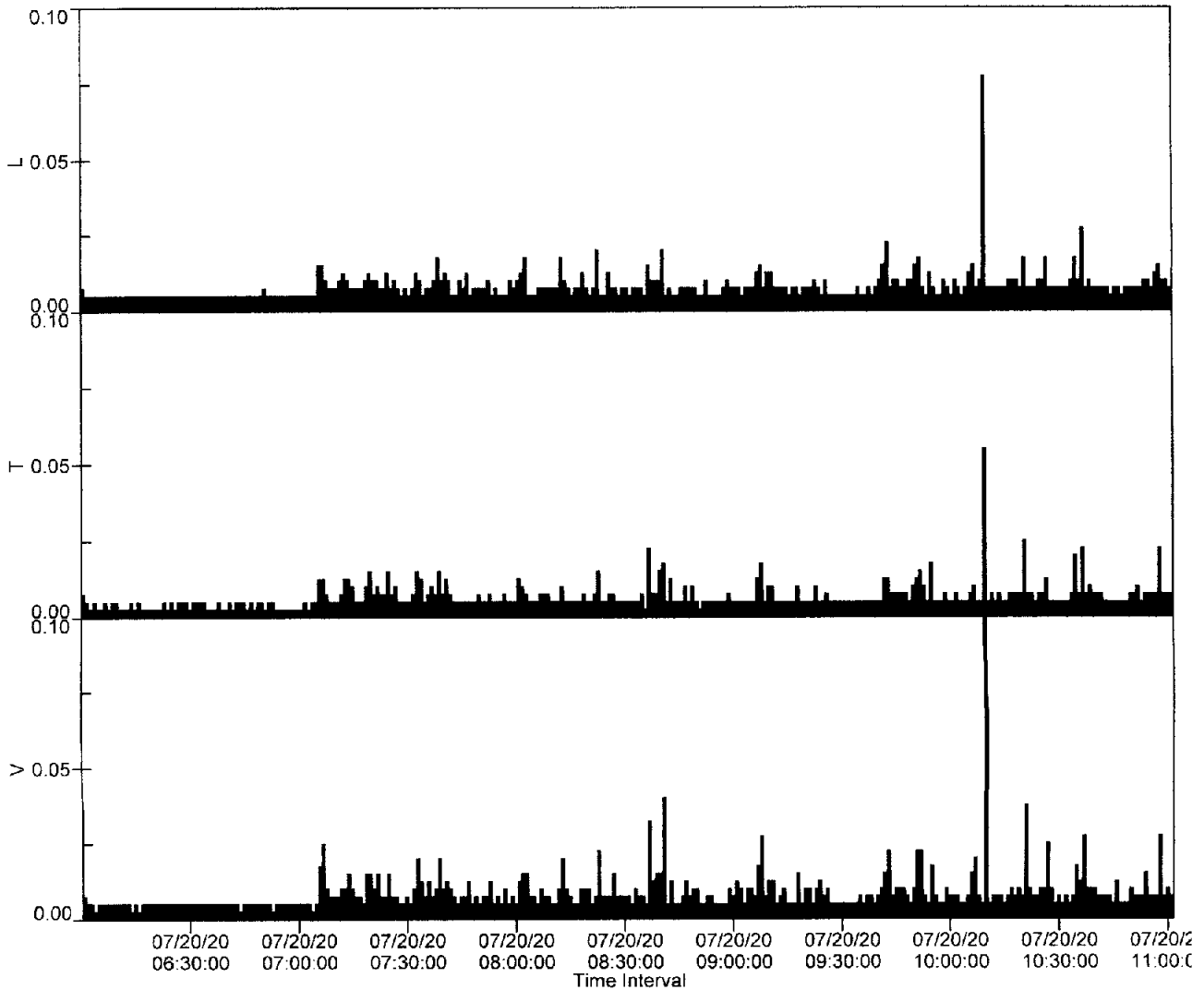
Recording Time: 301 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 81

Record Max PPV: 0.115 in/s Record Max DB: 78 db



SN: 3559 v2.75
Date: 07/20/2020 **Time:** 11:09:00
Event: 82
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.043	0.055	0.090
FREQ (Hz)	25.0	20.8	17.2
Peak Air Pressure:	76 db		

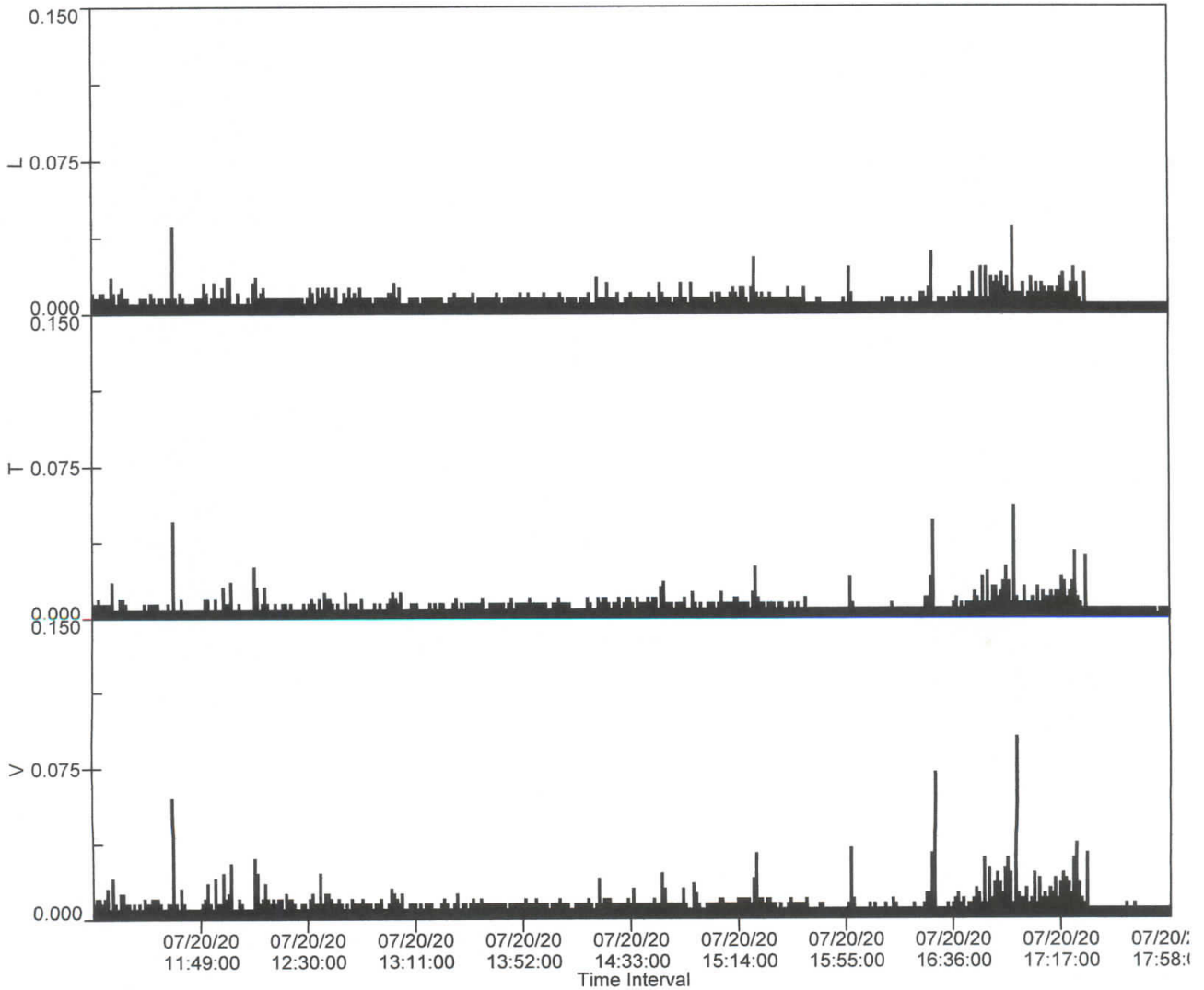
Recording Time: 410 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 82

Record Max PPV: 0.090 in/s Record Max DB: 76 db



SN: 3559 v2.75
Date: 07/21/2020 **Time:** 06:01:00
Event: 83
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.018	0.030
FREQ (Hz)	13.5	14.3	14.3
Peak Air Pressure:	79 db		

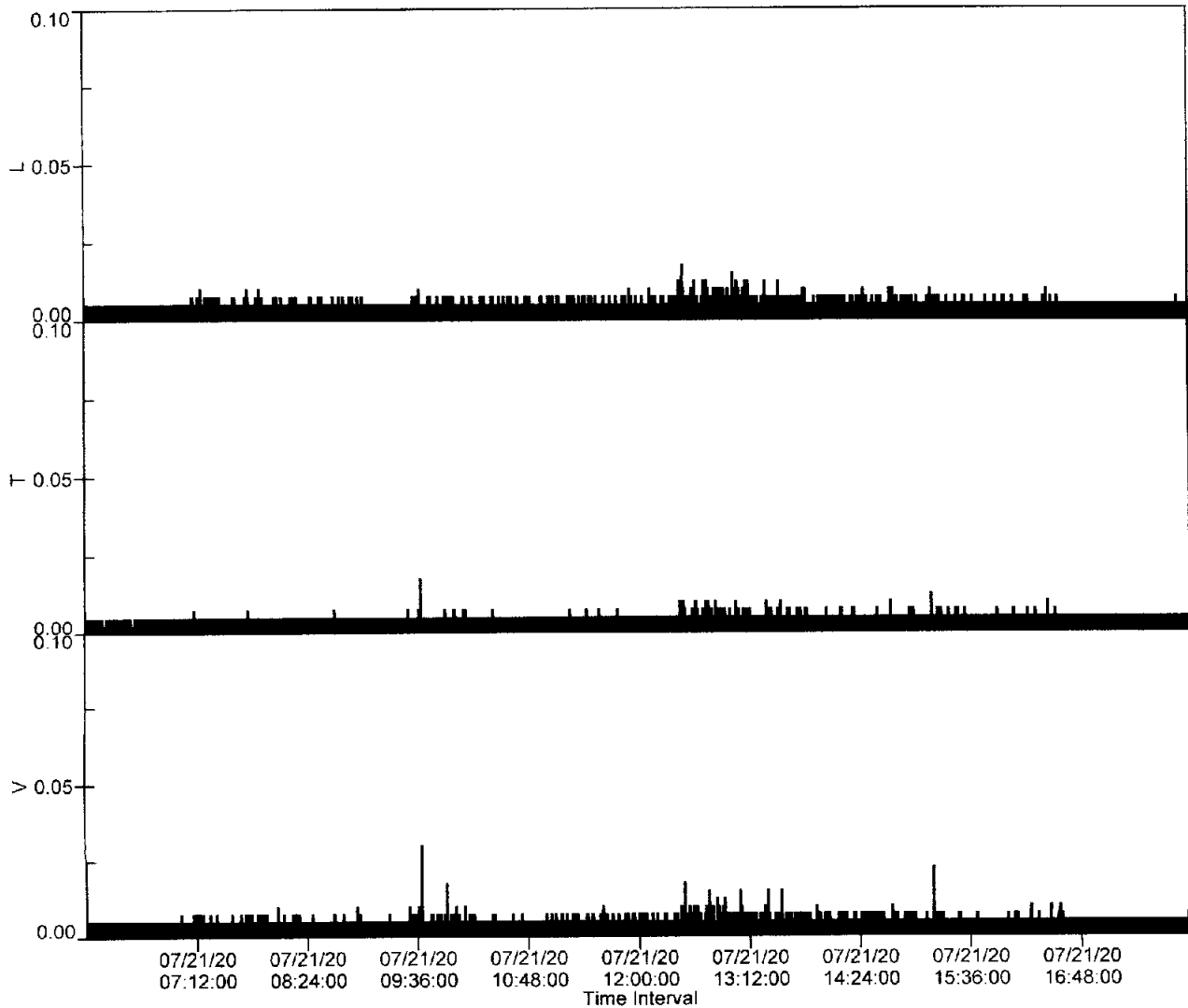
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 83

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



SN: 3559 v2.75
Date: 07/22/2020 **Time:** 06:01:00
Event: 84
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.018	0.025
FREQ (Hz)	11.6	15.2	15.6
Peak Air Pressure:	84 db		

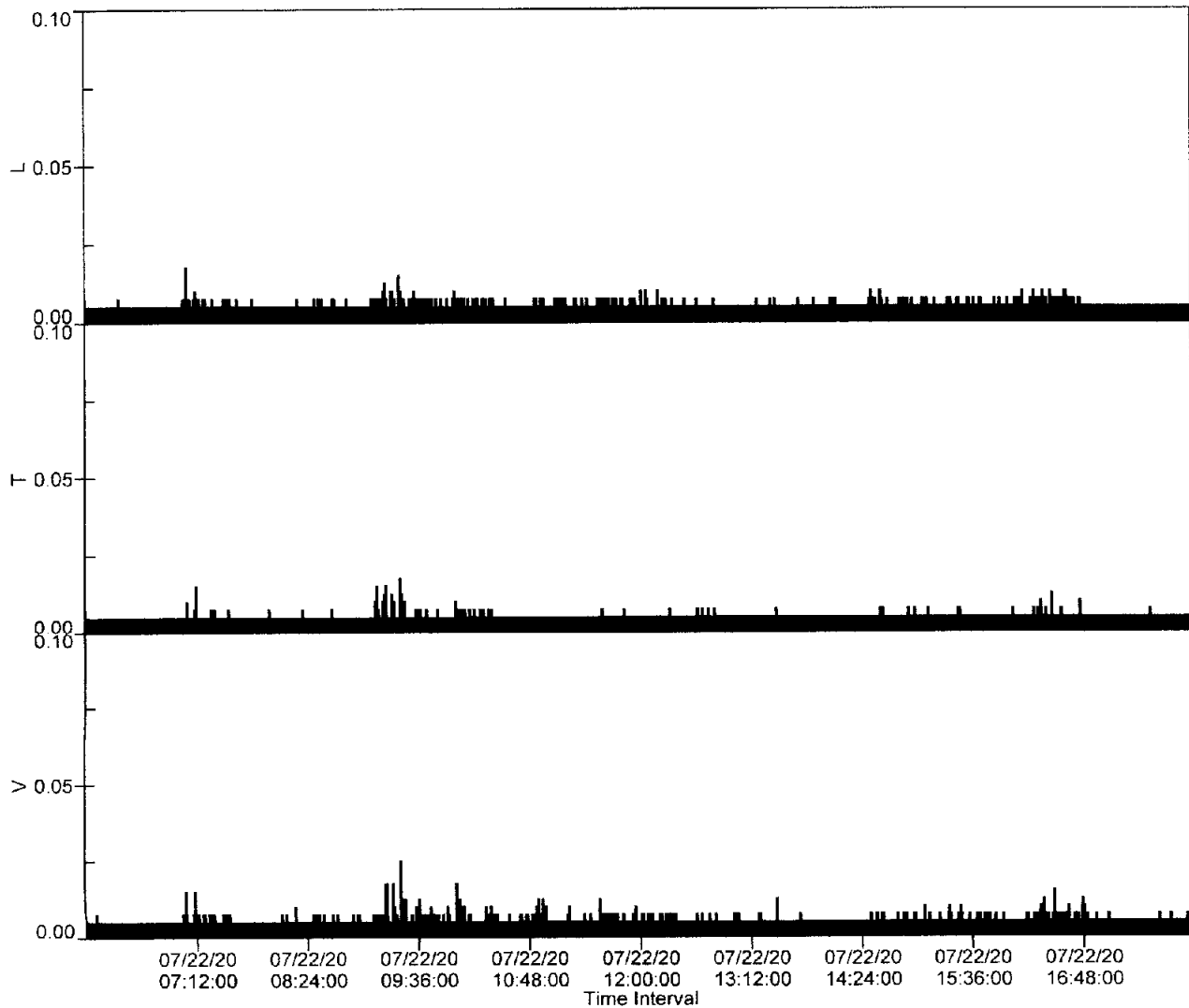
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 84

Record Max PPV: 0.025 in/s Record Max DB: 84 db



SN: 3559 v2.75
Date: 07/23/2020 **Time:** 06:01:00
Event: 85
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.018	0.035
FREQ (Hz)	12.5	13.9	13.2
Peak Air Pressure:	76 db		

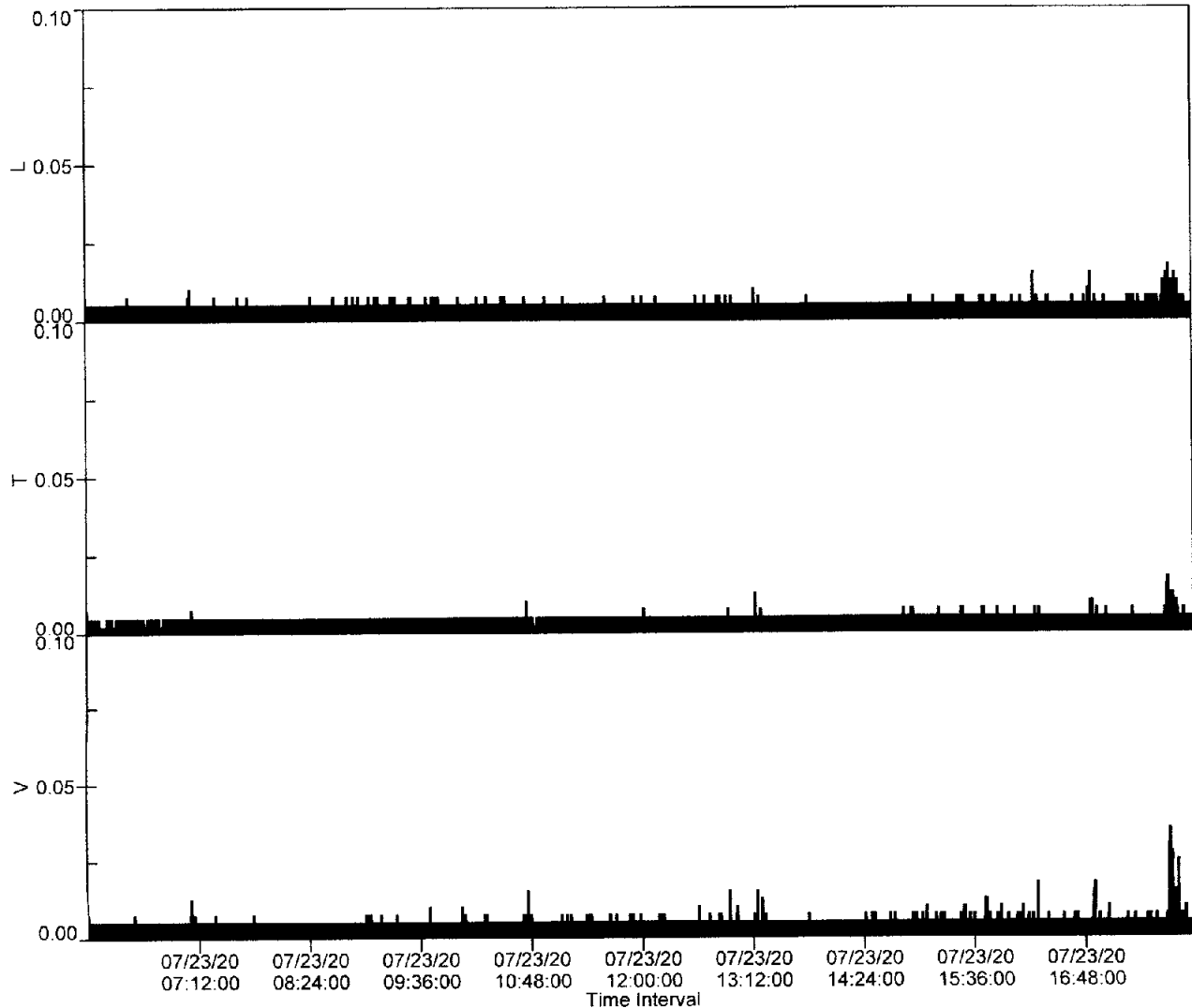
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 85

Record Max PPV: 0.035 in/s Record Max DB: 76 db



SN: 3559 v2.75
Date: 07/24/2020 **Time:** 06:01:00
Event: 86
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.030	0.015	0.020
FREQ (Hz)	9.8	7.8	9.8
Peak Air Pressure:	76 db		

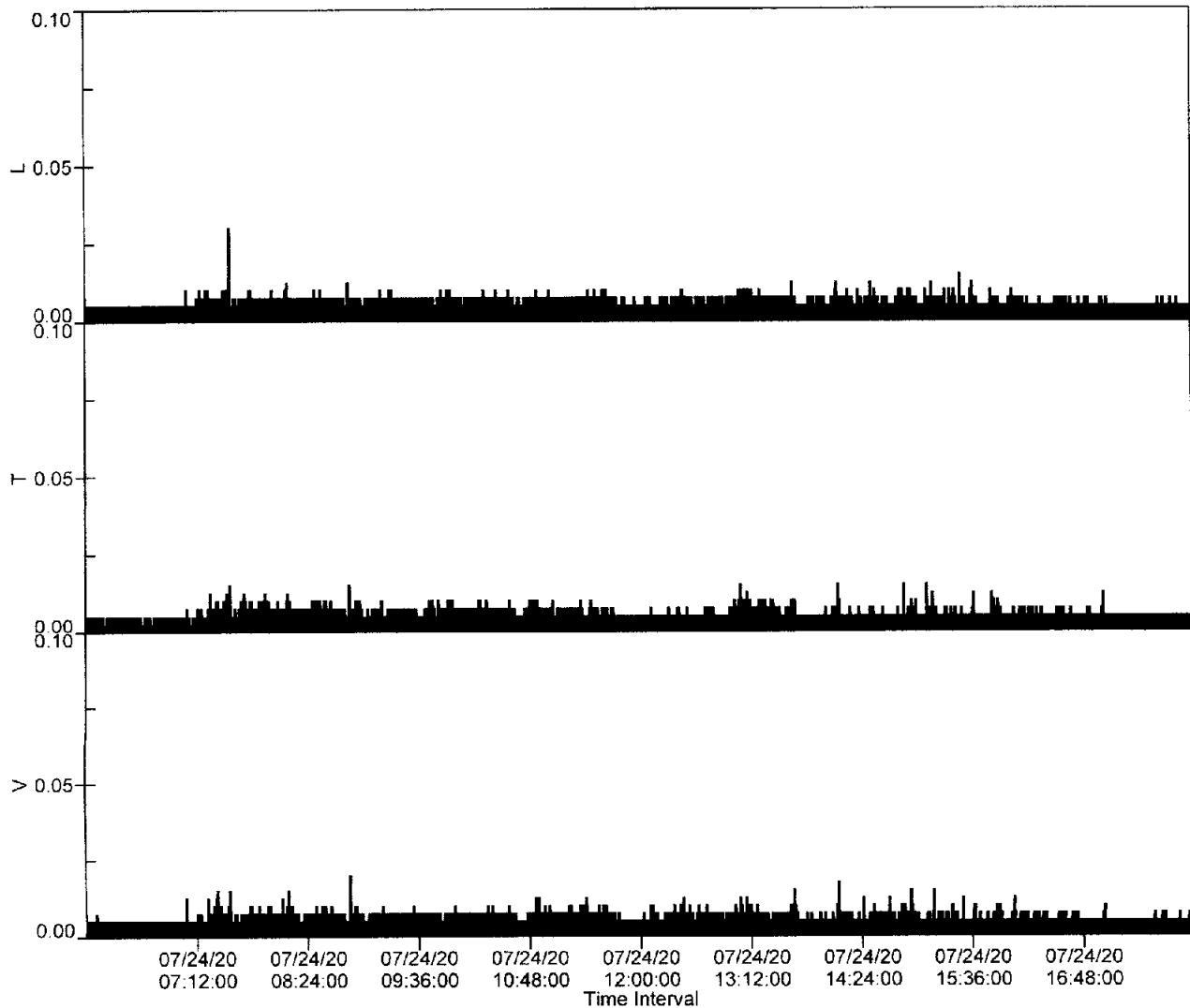
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 86

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



SN: 3559 v2.75
Date: 07/25/2020 **Time:** 06:01:00
Event: 87
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.013	0.013	0.018
FREQ (Hz)	7.6	12.8	20.8
Peak Air Pressure:	76 db		

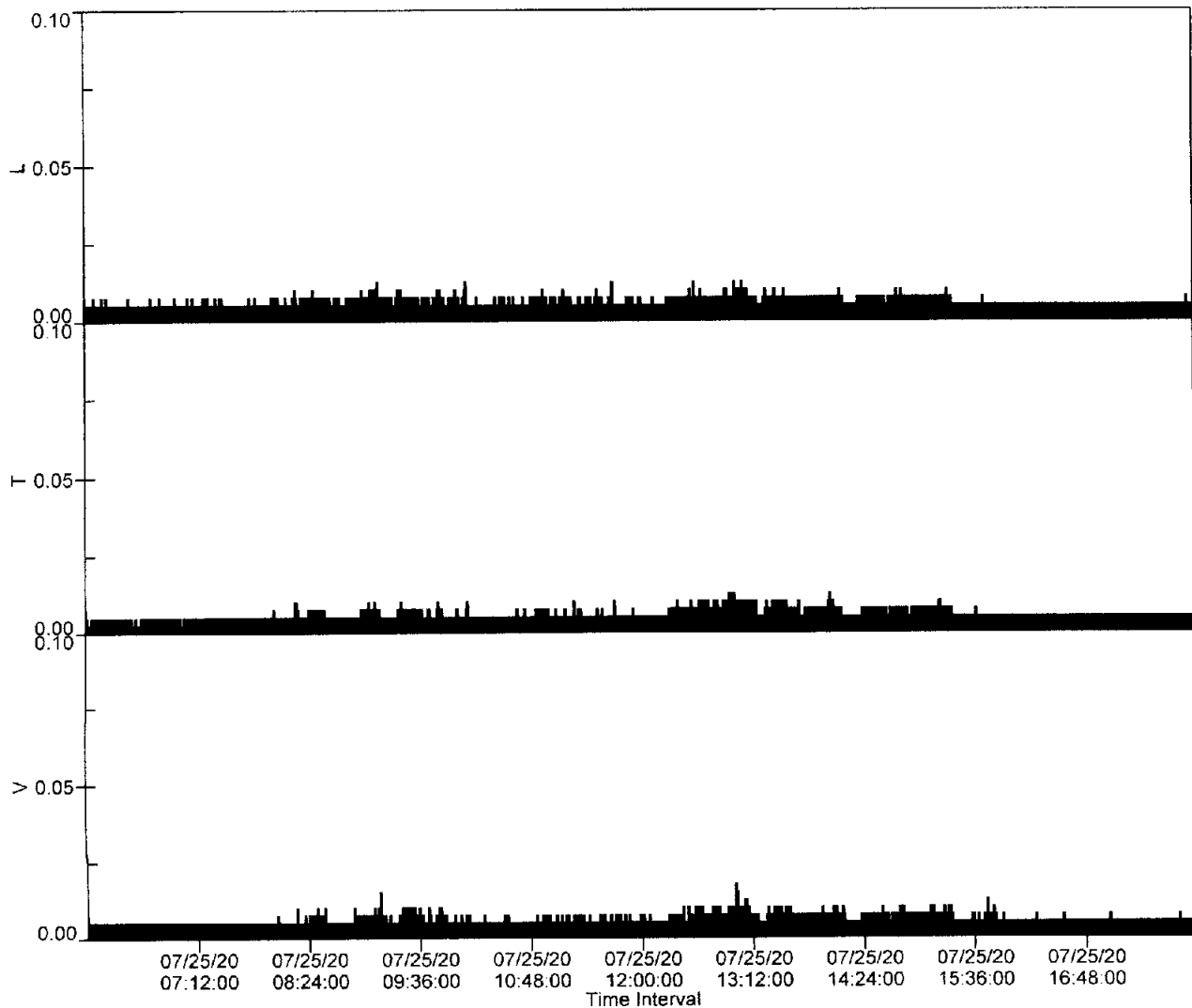
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 87

Record Max PPV: 0.018 in/s Record Max DB: 76 db



SN: 3559 v2.75
Date: 07/26/2020 **Time:** 06:01:00
Event: 88
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.008	0.008
FREQ (Hz)	2.8	3.5	2.4
Peak Air Pressure:	82 db		

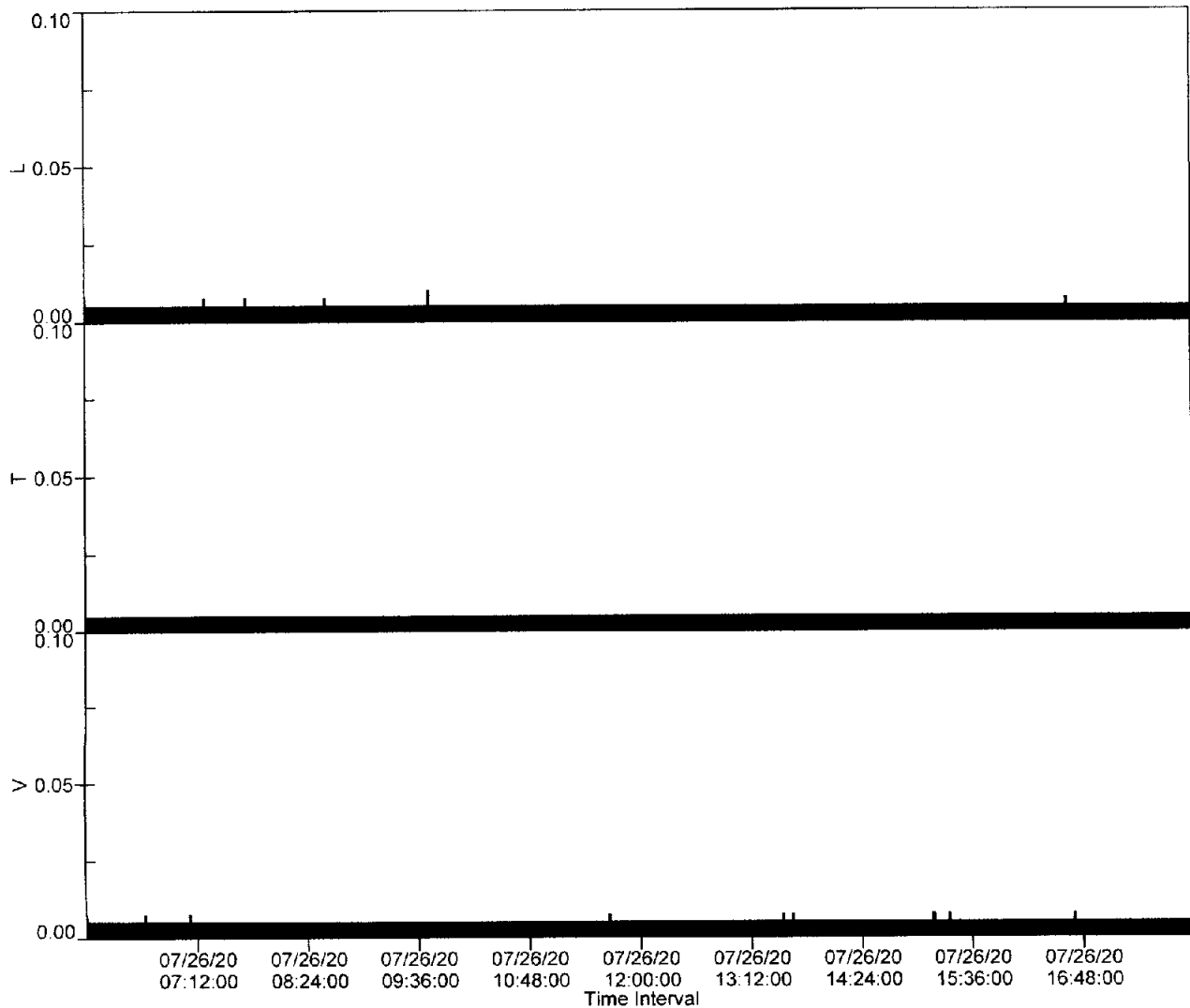
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 88

Record Max PPV: 0.010 in/s Record Max DB: 82 db



SN: 3559 v2.75
Date: 07/27/2020 **Time:** 06:01:00
Event: 89
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.015	0.013	0.020
FREQ (Hz)	17.9	16.1	17.9
Peak Air Pressure:	79 db		

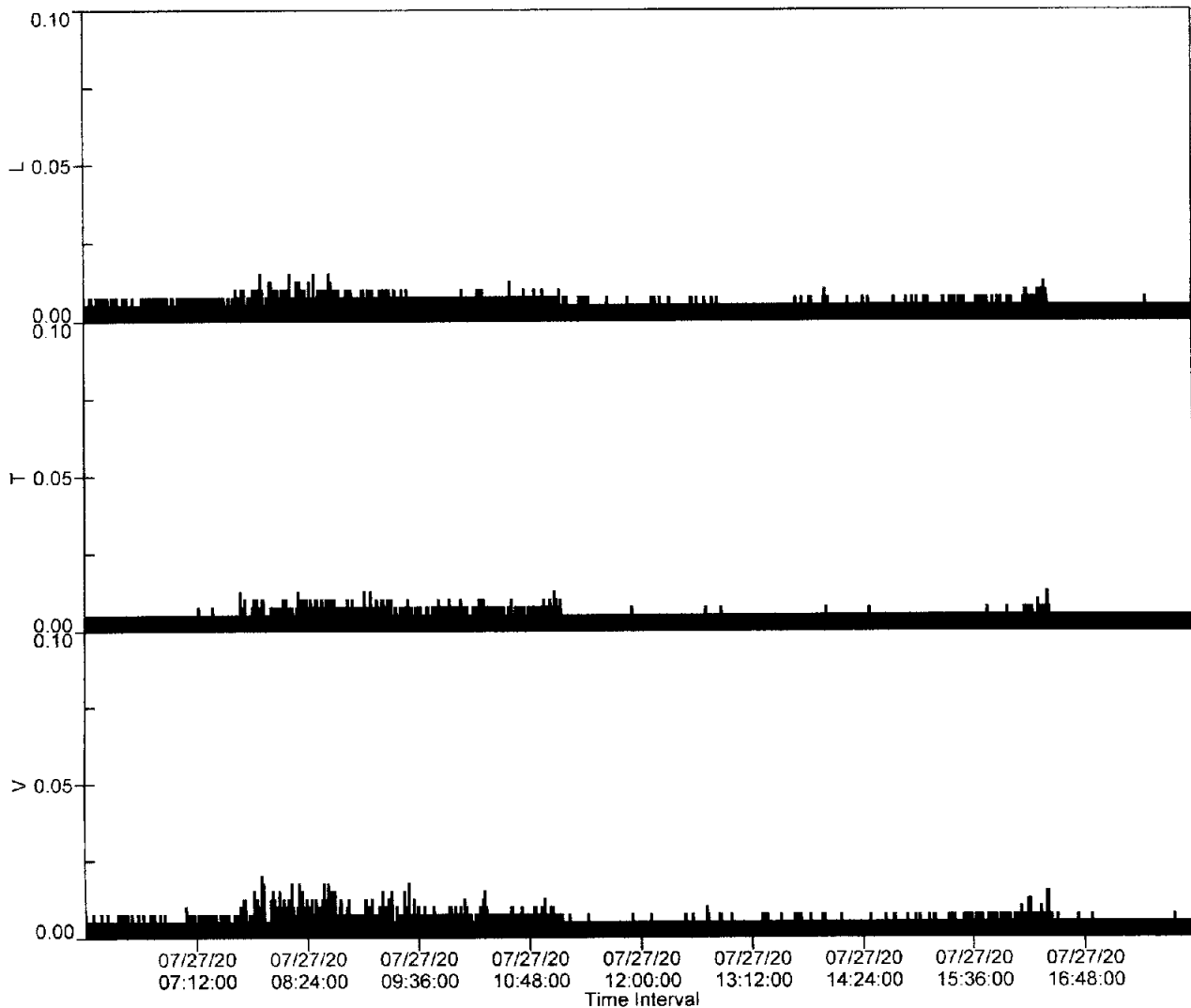
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 89

Record Max PPV: 0.020 in/s Record Max DB: 79 db



SN: 3559 v2.75
Date: 07/28/2020 **Time:** 06:01:00
Event: 90
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

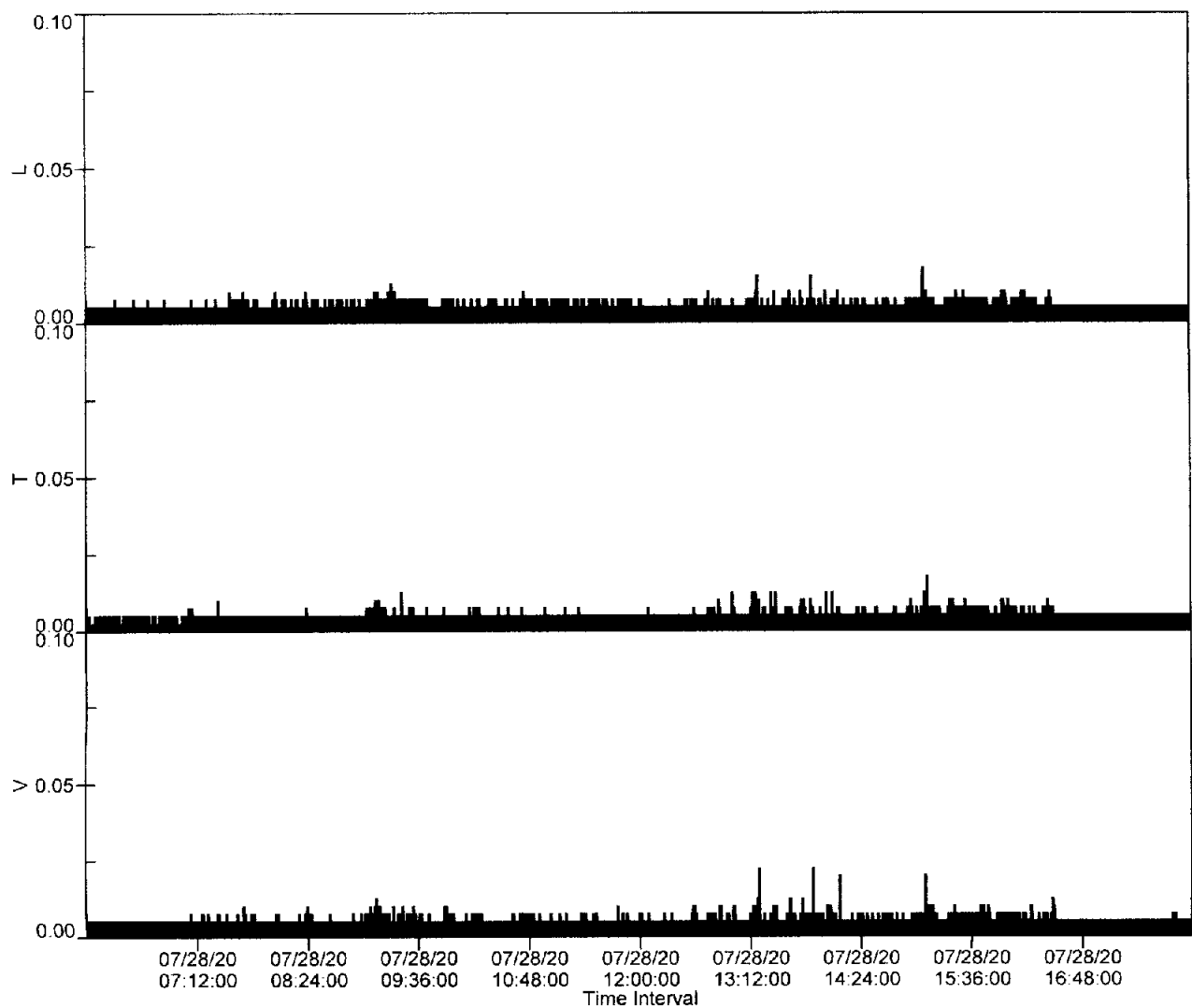
	L	T	V
PPV (in/s)	0.018	0.018	0.023
FREQ (Hz)	25.0	12.8	19.2
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 90

Record Max PPV: 0.023 in/s Record Max DB: 79 db



SN: 3559 v2.75
Date: 07/29/2020 **Time:** 06:01:00
Event: 91
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.015	0.013	0.015
FREQ (Hz)	11.4	14.7	16.7
Peak Air Pressure:	82 db		

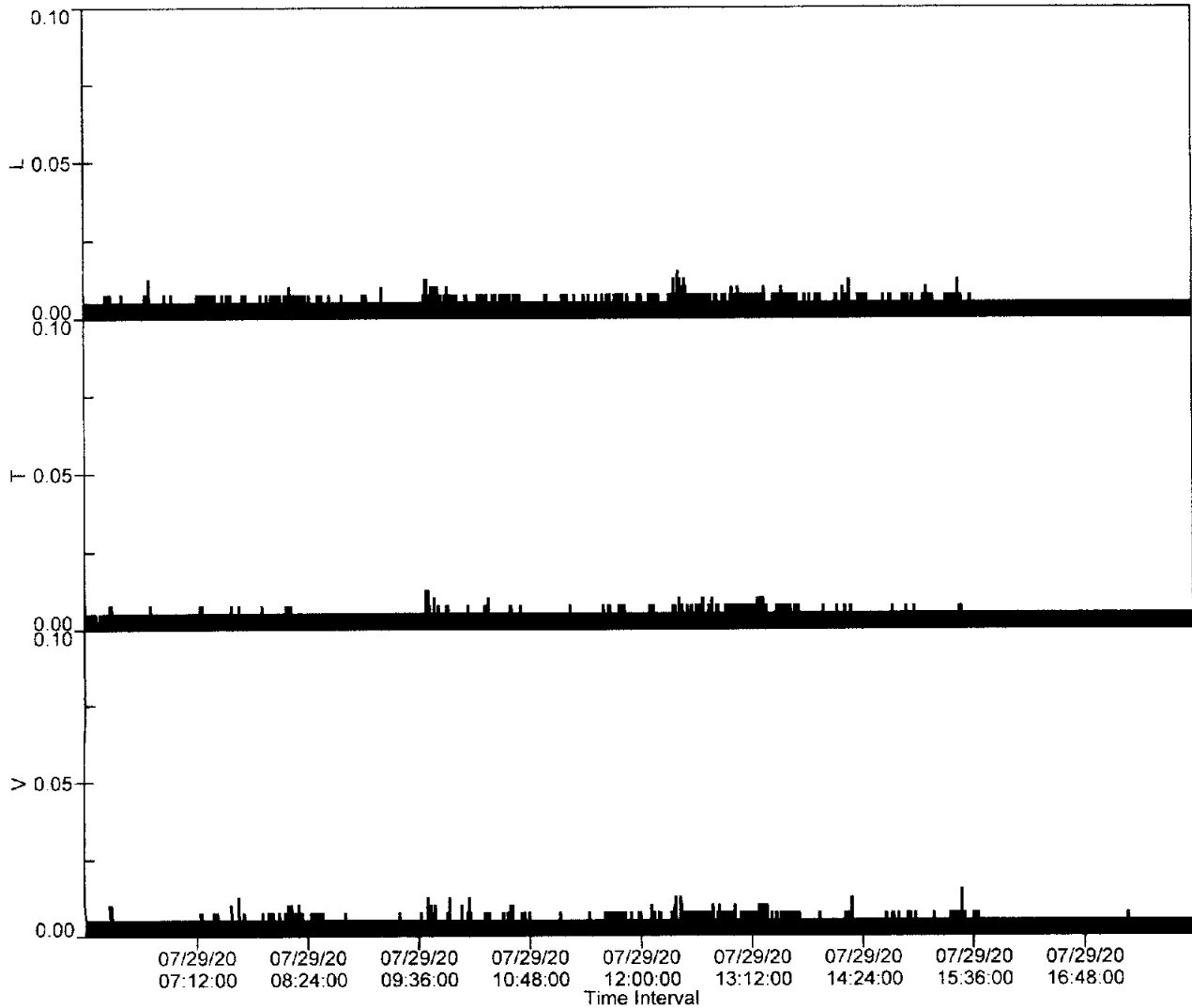
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 91

Record Max PPV: 0.015 in/s Record Max DB: 82 db



SN: 3559 v2.75
Date: 07/30/2020 **Time:** 06:01:00
Event: 92
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.010	0.023
FREQ (Hz)	10.0	12.2	23.8
Peak Air Pressure:	78 db		

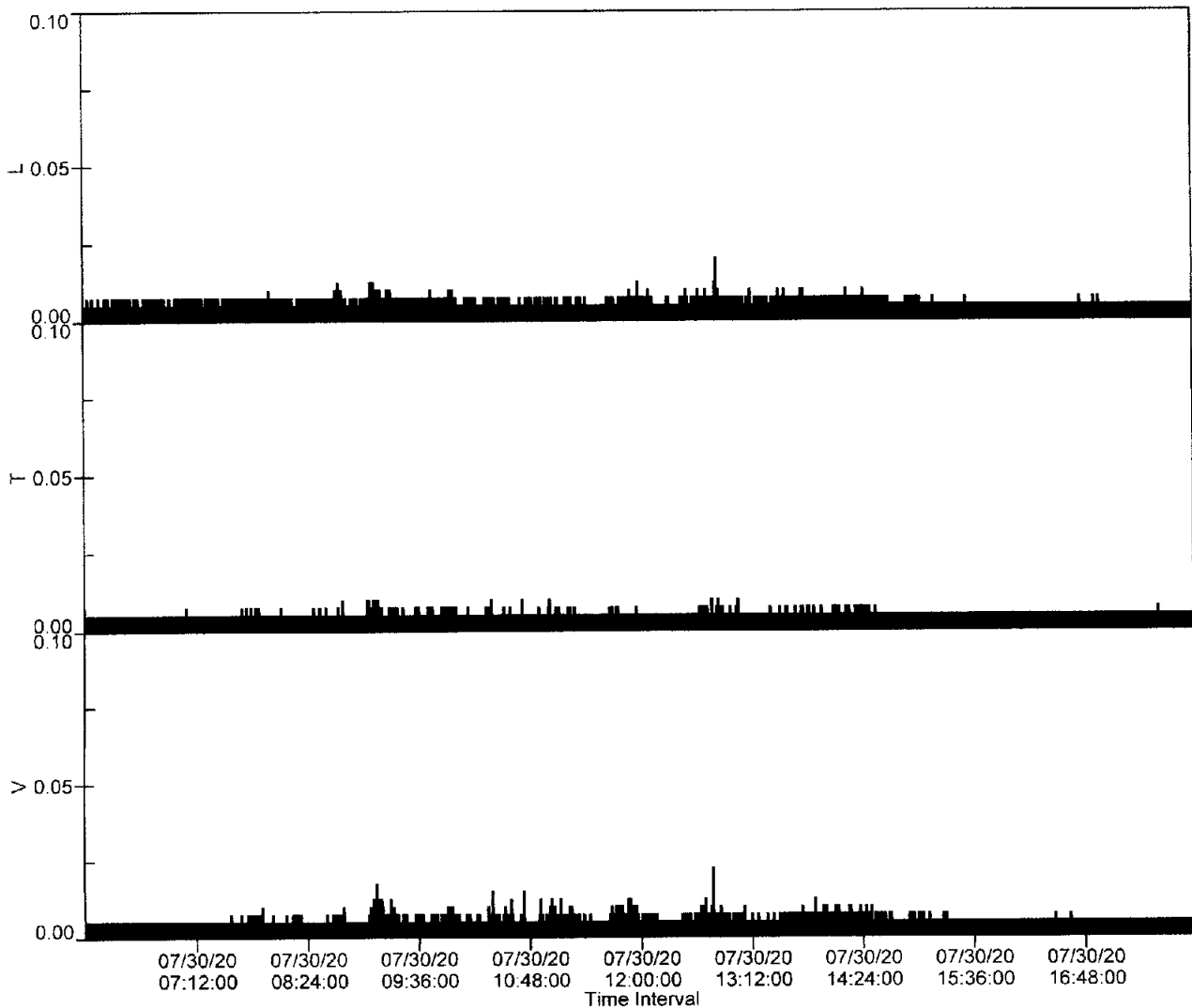
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 92

Record Max PPV: 0.023 in/s Record Max DB: 78 db



SN: 3559 v2.75
Date: 07/31/2020 **Time:** 06:01:00
Event: 93
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.035	0.015	0.058
FREQ (Hz)	18.5	18.5	20.0
Peak Air Pressure:	78 db		

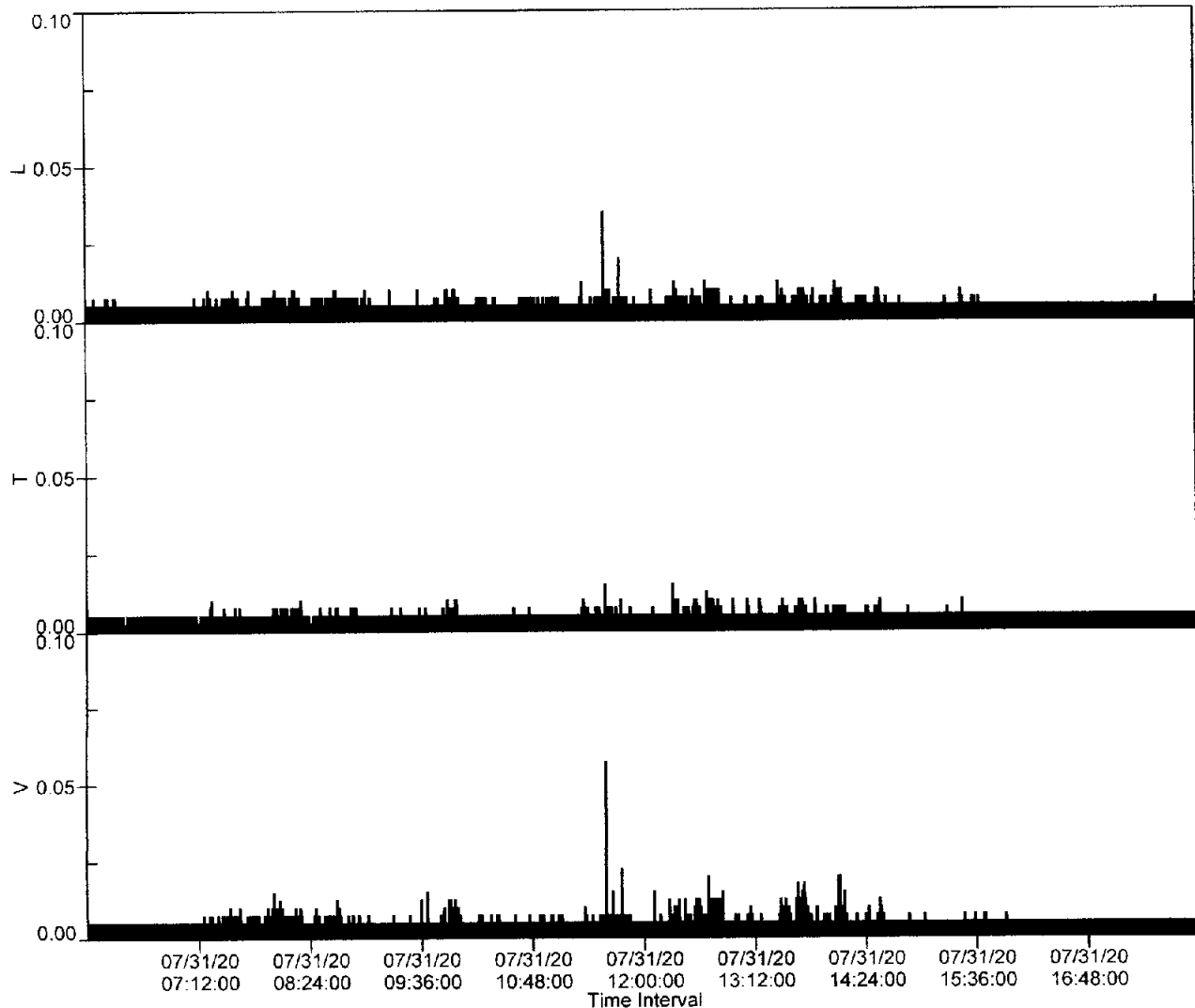
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 93

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



SN: 3559 v2.75
Date: 08/01/2020 **Time:** 06:01:00
Event: 94
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.010	0.018
FREQ (Hz)	15.6	17.2	19.2
Peak Air Pressure:	81 db		

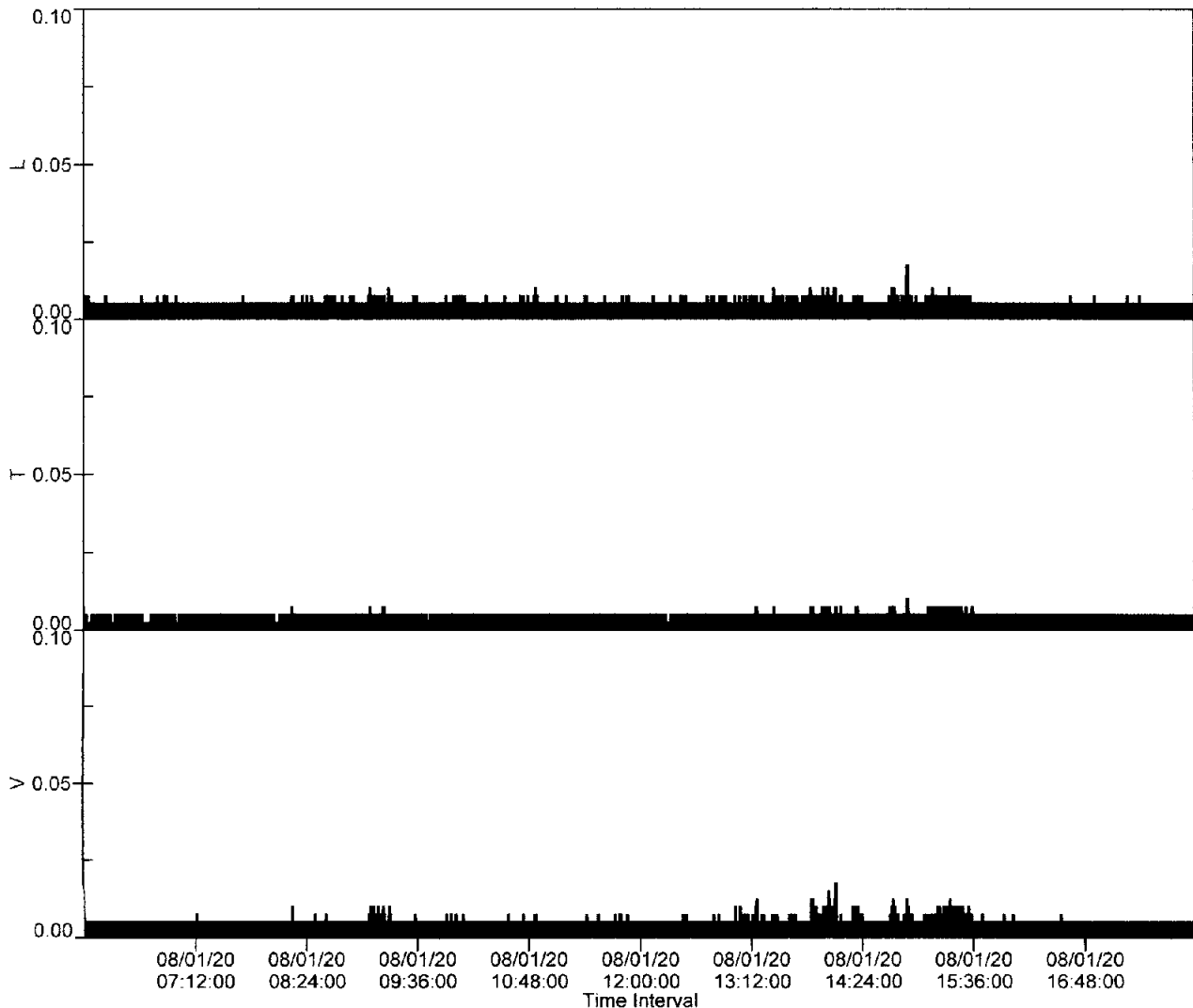
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 0.018 in/s Record Max DB: 81 db



SN: 3559 v2.75
Date: 08/02/2020 **Time:** 06:01:00
Event: 95
Client: BERGER CONST
Operation: EXCAVATION
Location: #2 WSNP
Distance: 50.
Operator: CTI INC
Comment: NORTH MIDDLE UNIT

**Continuous Monitor Recording
Summary Data**

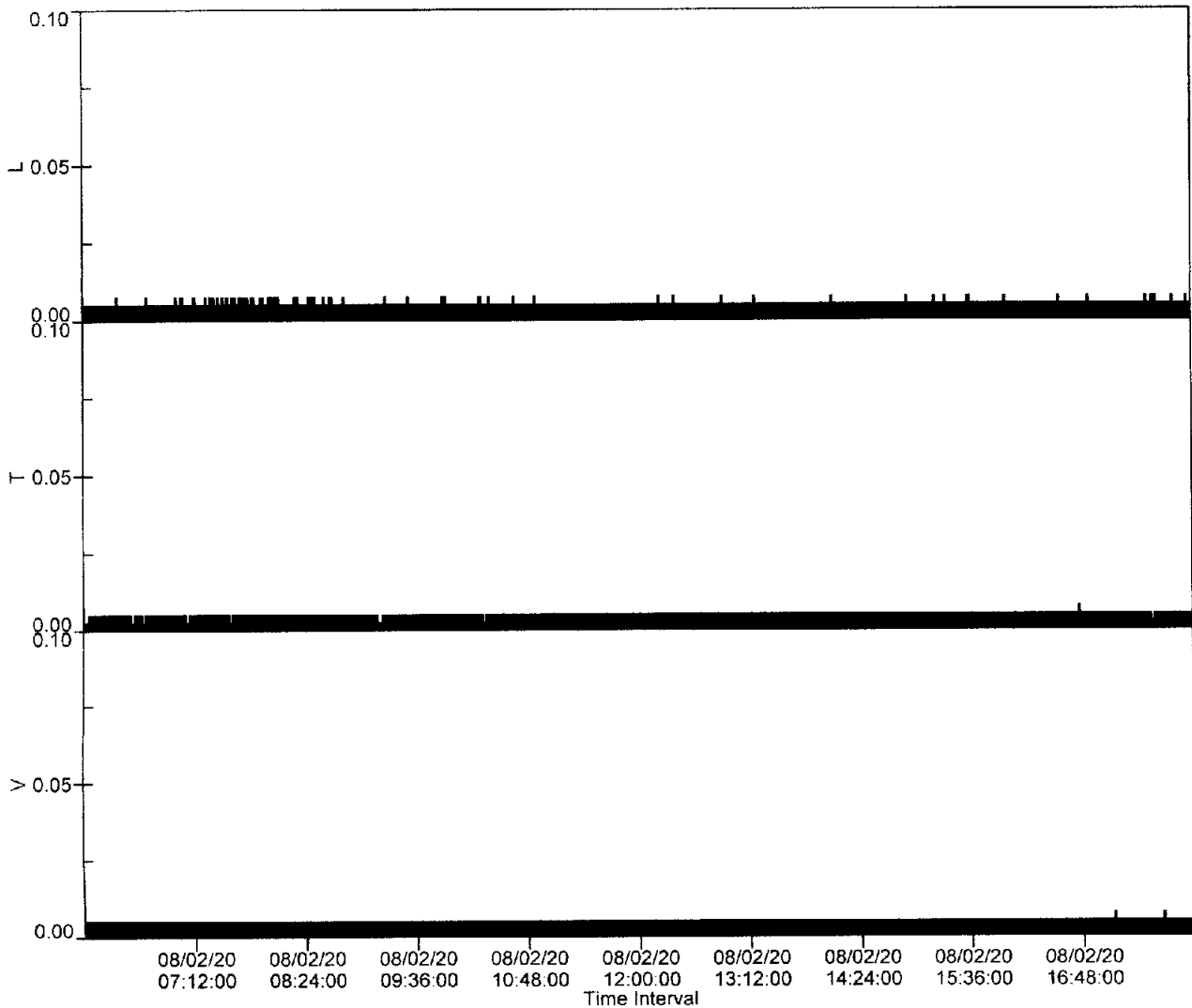
	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.4	2.6	.5
Peak Air Pressure:	76 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 95

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



SN: 3804 v3.22
Date: 07/20/2020 **Time:** 06:01:00
Event: 79
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.035	0.030	0.028
FREQ (Hz)	20.8	11.1	10.6
Peak Air Pressure:	78 db		

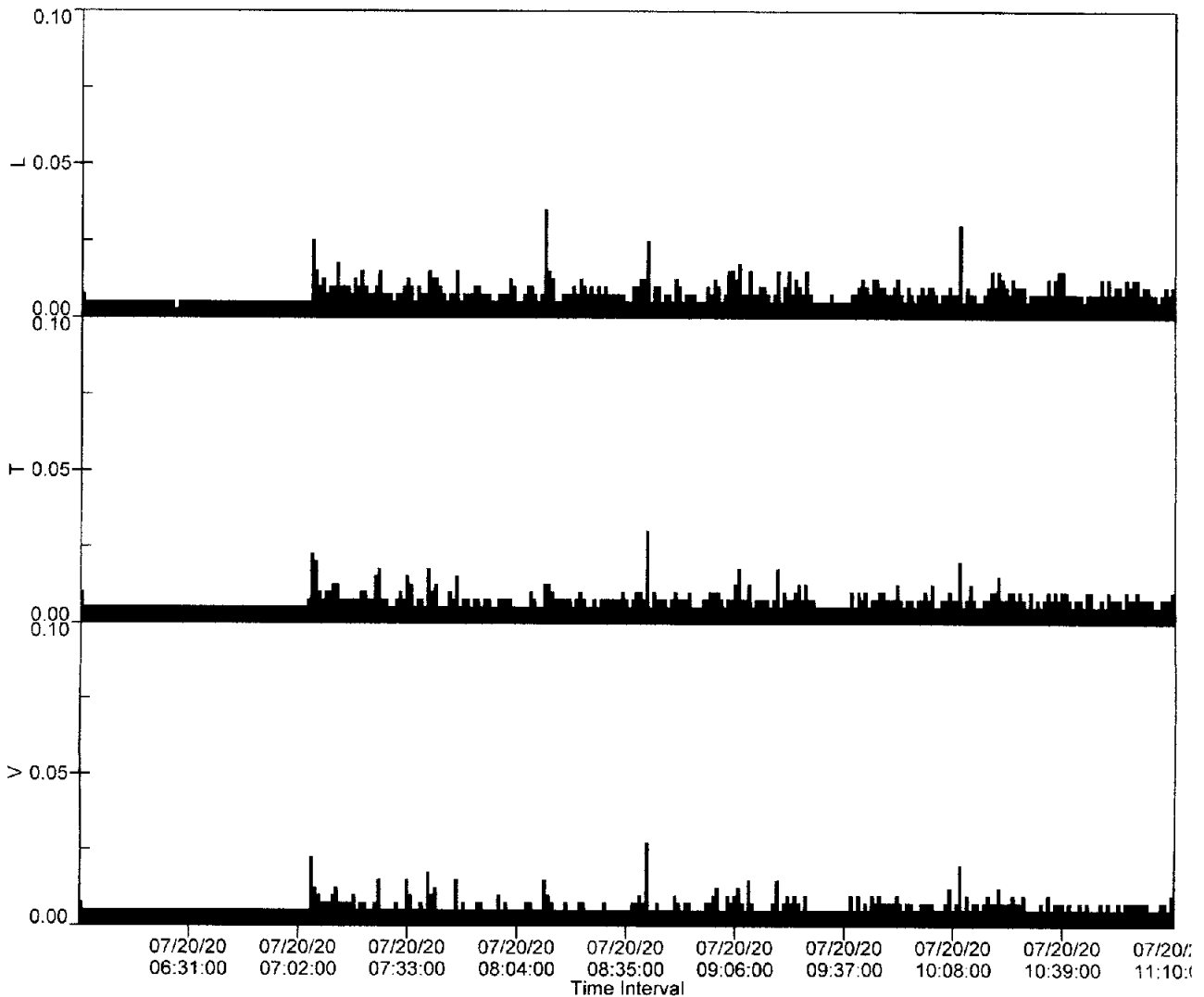
Recording Time: 310 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 79

Record Max PPV: 0.035 in/s Record Max DB: 78 db



SN: 3804 v3.22
Date: 07/20/2020 **Time:** 11:18:00
Event: 80
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.028	0.038	0.023
FREQ (Hz)	12.8	13.5	20.8
Peak Air Pressure:	78 db		

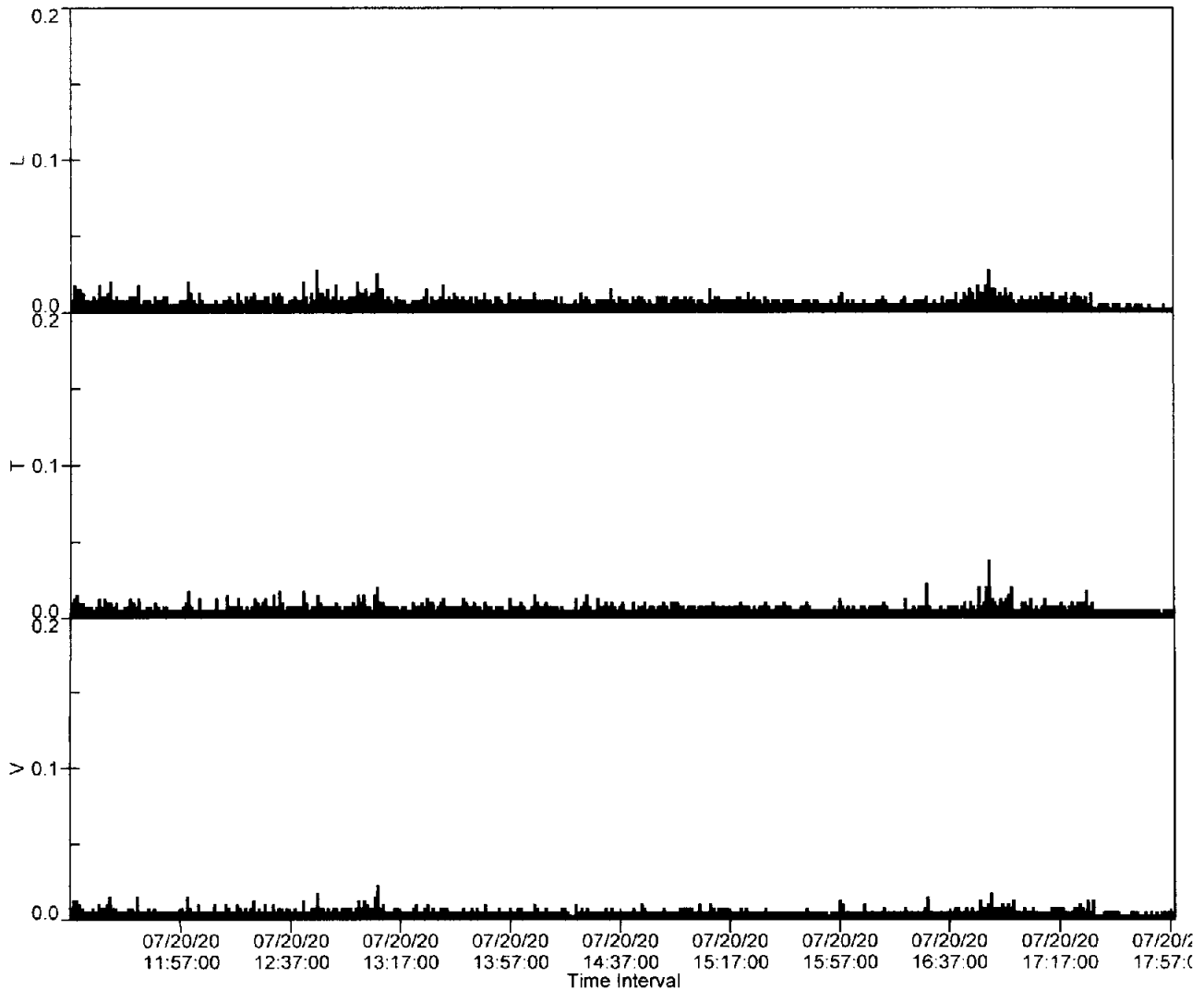
Recording Time: 401 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 80

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



SN: 3804 v3.22
Date: 07/21/2020 **Time:** 06:01:00
Event: 81
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.078	0.080	0.080
FREQ (Hz)	26.3	31.3	35.7
Peak Air Pressure:	76 db		

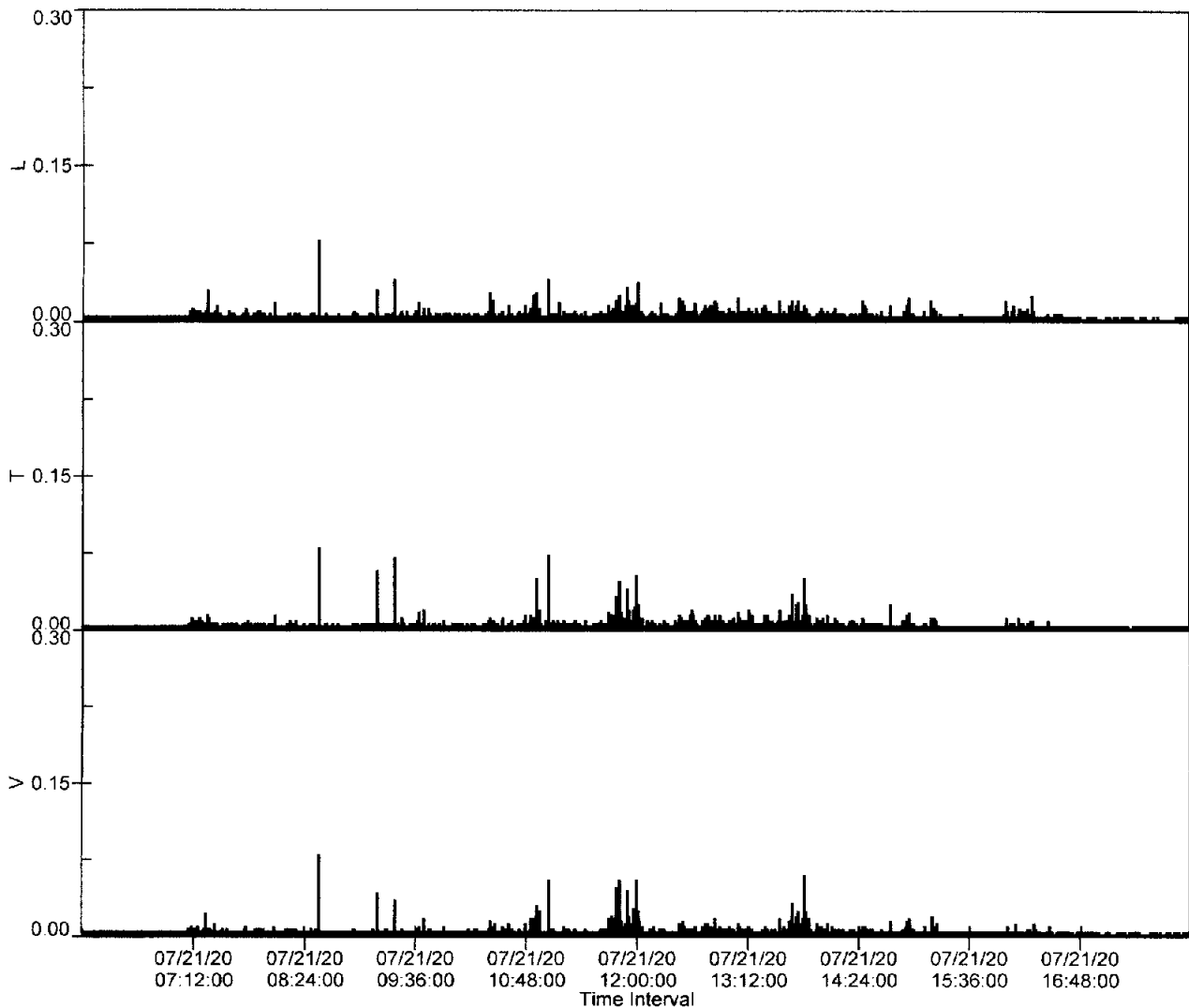
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 81

Record Max PPV: 0.080 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/22/2020 **Time:** 06:01:00
Event: 82
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.055	0.058	0.055
FREQ (Hz)	18.5	17.9	18.5
Peak Air Pressure:	76 db		

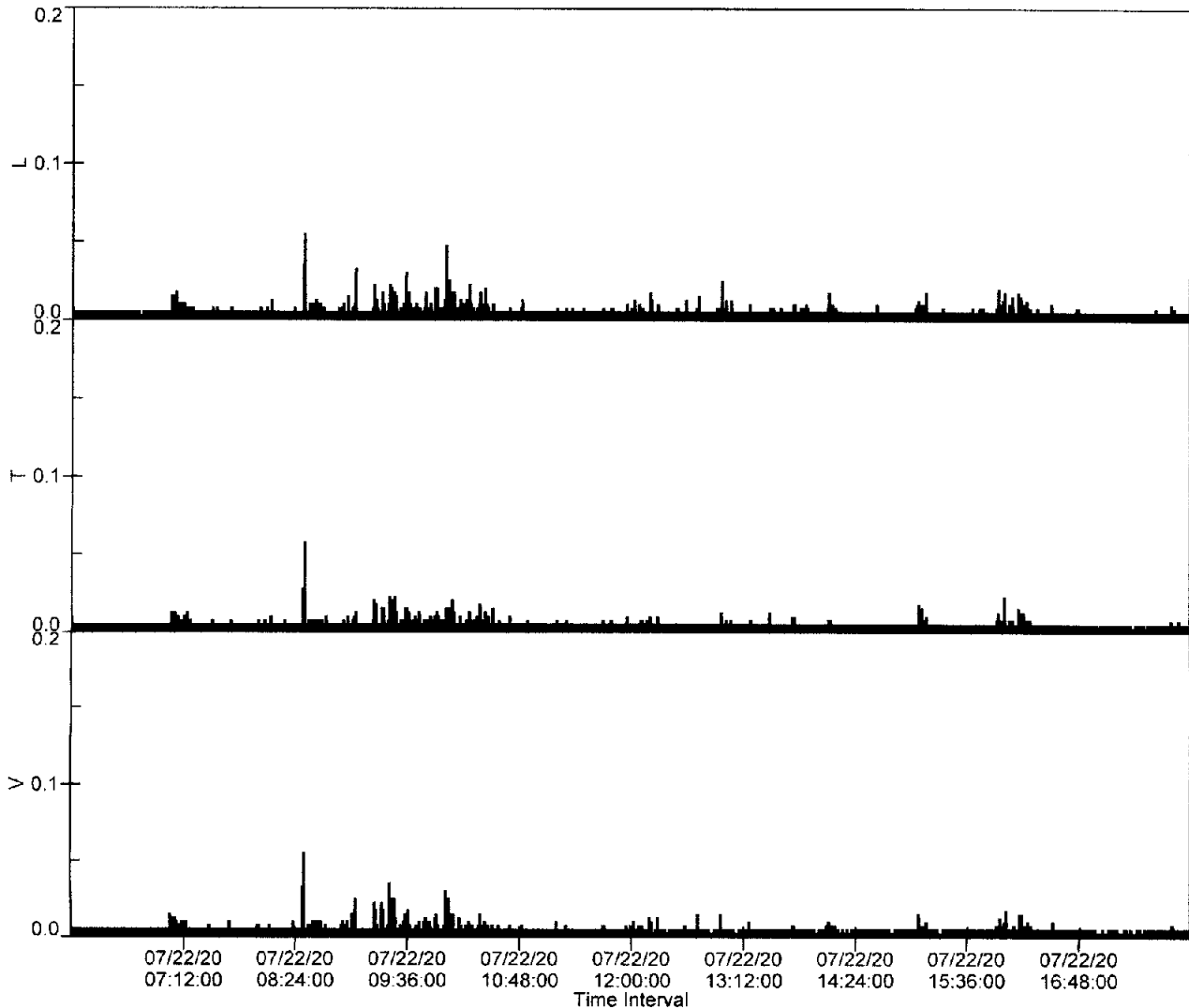
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 82

Record Max PPV: 0.058 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/23/2020 **Time:** 06:01:00
Event: 83
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.045	0.028	0.038
FREQ (Hz)	18.5	29.4	12.2
Peak Air Pressure:	76 db		

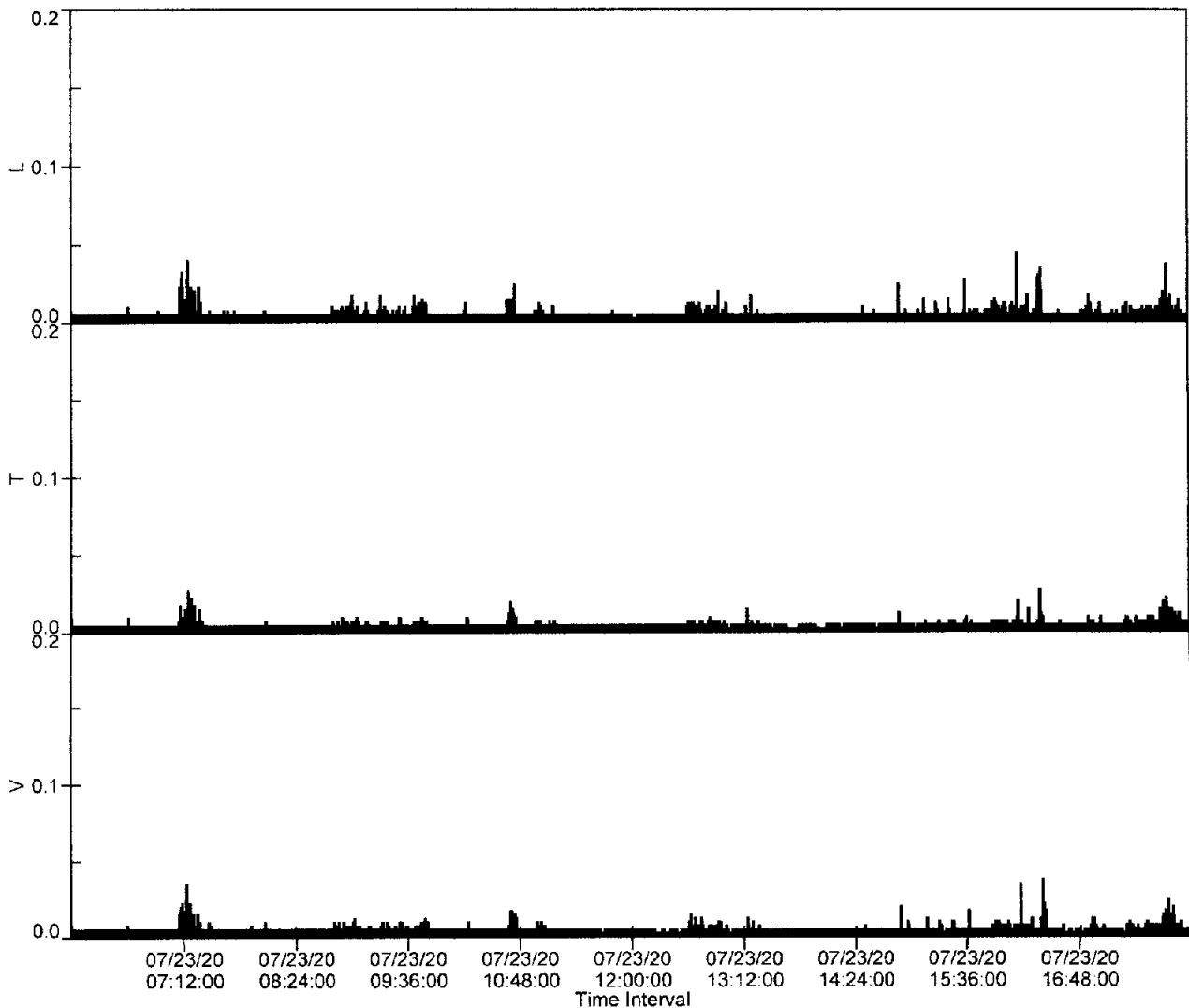
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 83

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



SN: 3804 v3.22
Date: 07/24/2020 **Time:** 06:01:00
Event: 84
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.040	0.053	0.045
FREQ (Hz)	19.2	22.7	20.0
Peak Air Pressure:	76 db		

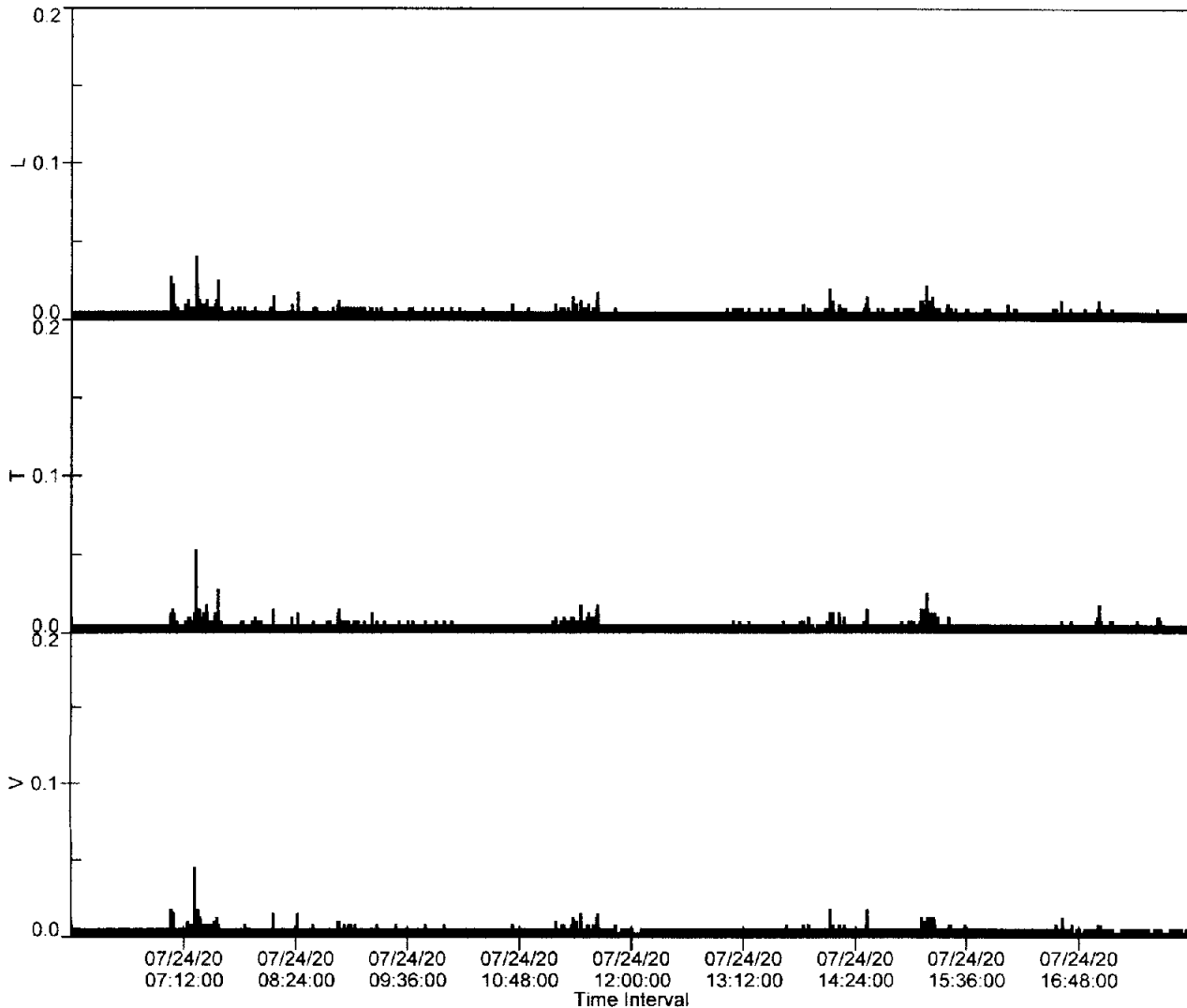
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 84

Record Max PPV: 0.053 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/25/2020 **Time:** 06:01:00
Event: 85
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.055	0.038	0.048
FREQ (Hz)	15.6	16.7	19.2
Peak Air Pressure:	76 db		

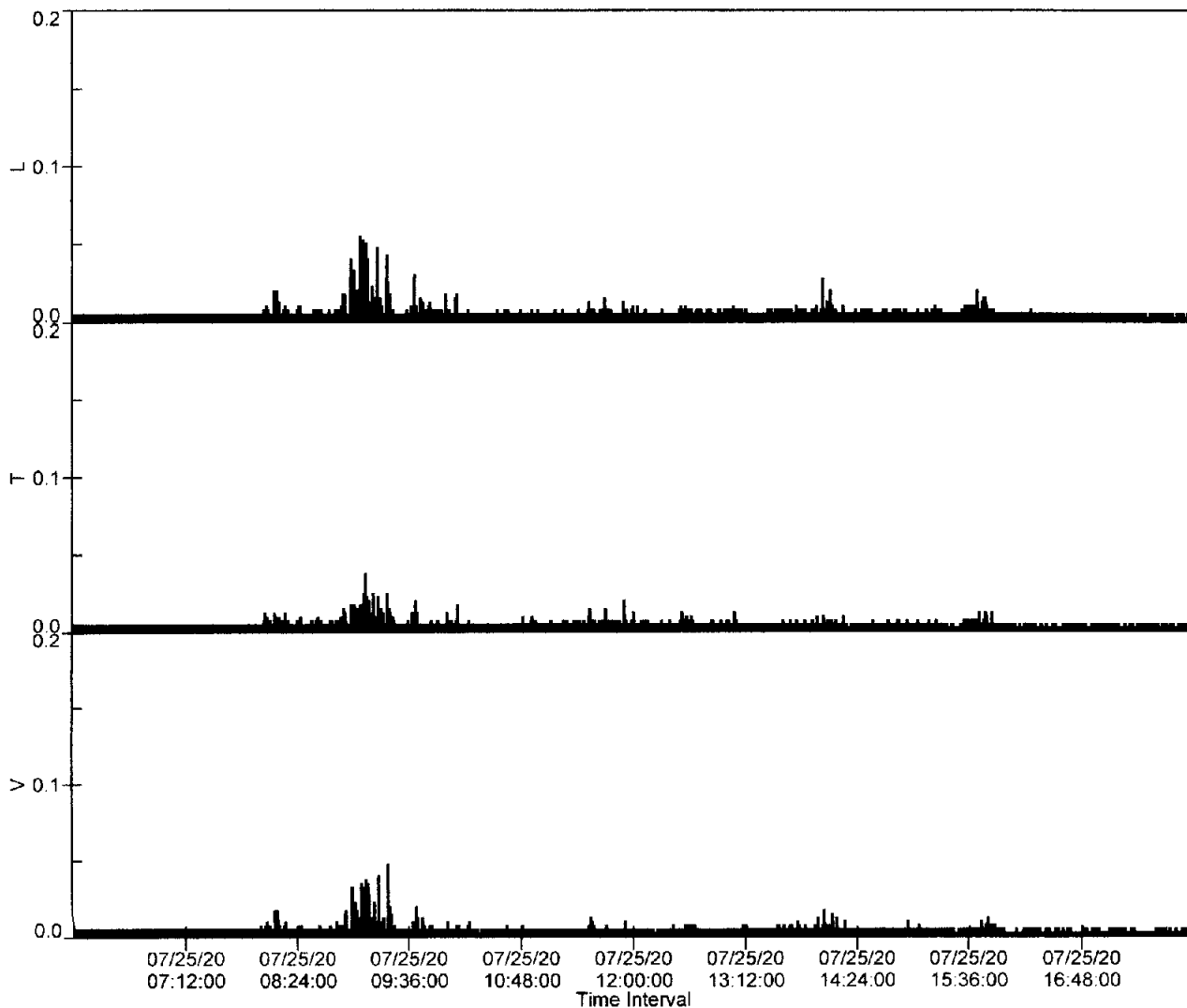
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 85

Record Max PPV: 0.055 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/26/2020 **Time:** 06:01:00
Event: 86
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNSP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.4	3.5	.3
Peak Air Pressure:	76 db		

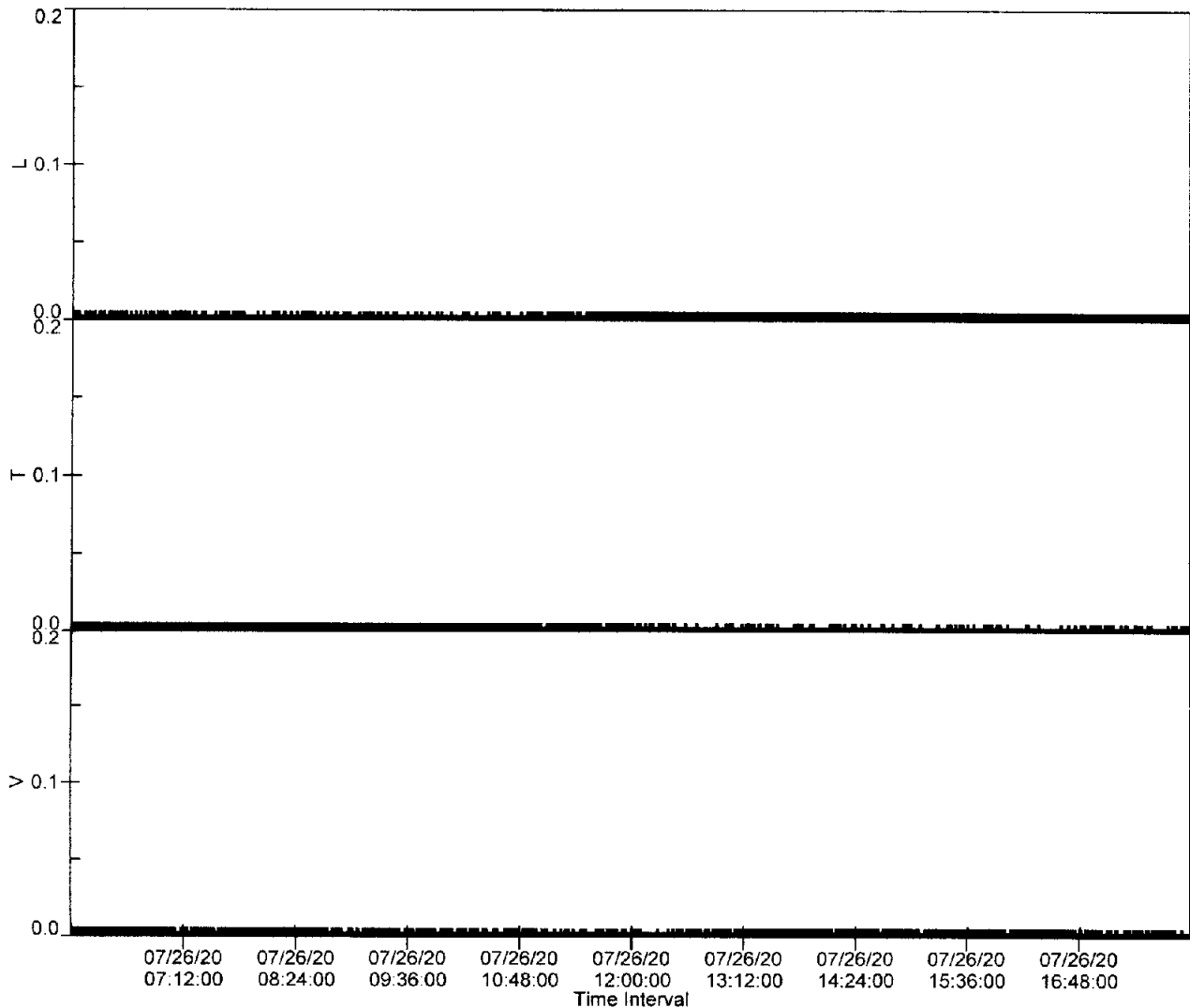
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 86

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



SN: 3804 v3.22
Date: 07/27/2020 **Time:** 06:01:00
Event: 87
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.100	0.058	0.088
FREQ (Hz)	27.8	25.0	29.4
Peak Air Pressure:	76 db		

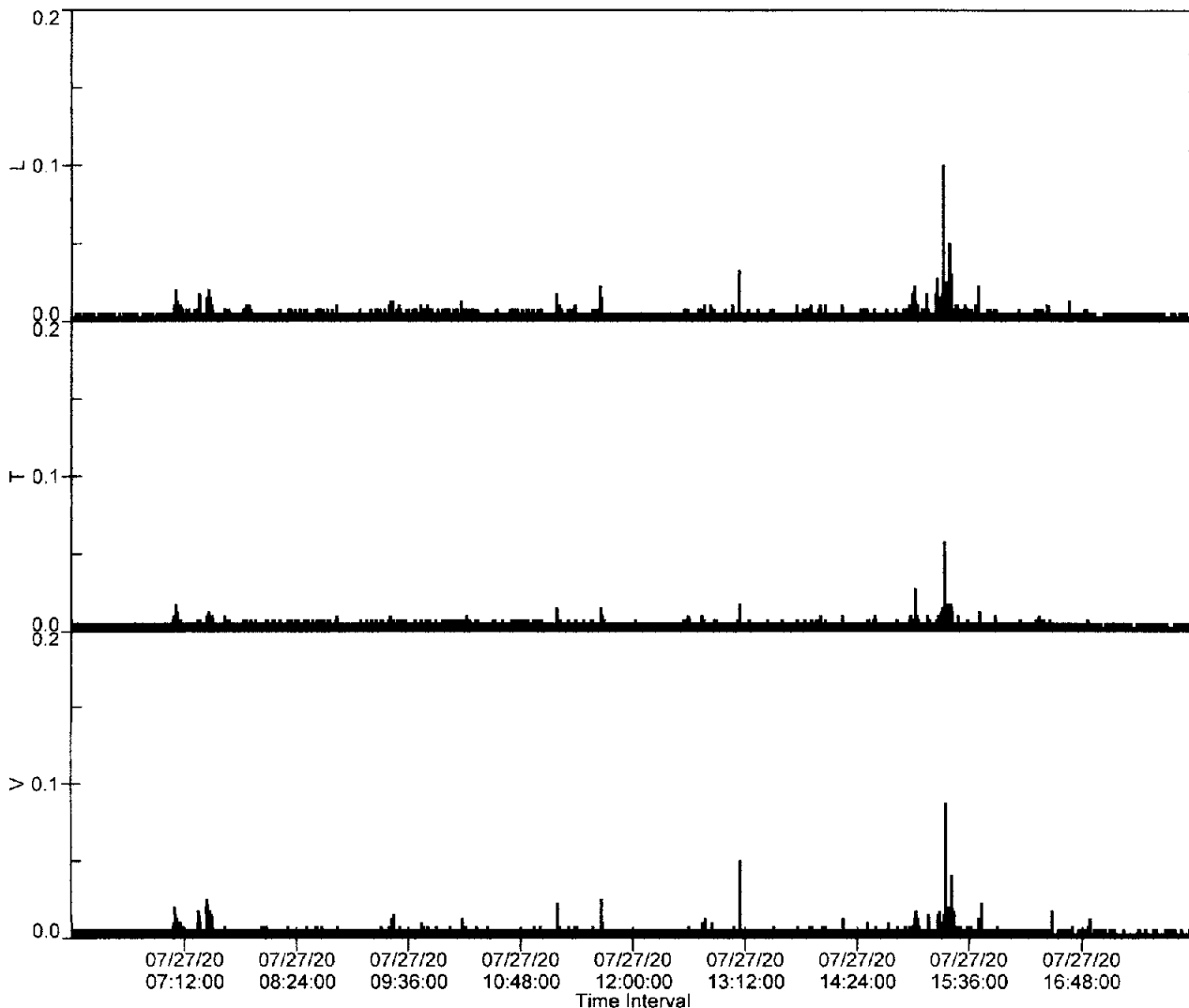
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 87

Record Max PPV: 0.100 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/28/2020 **Time:** 06:01:00
Event: 88
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

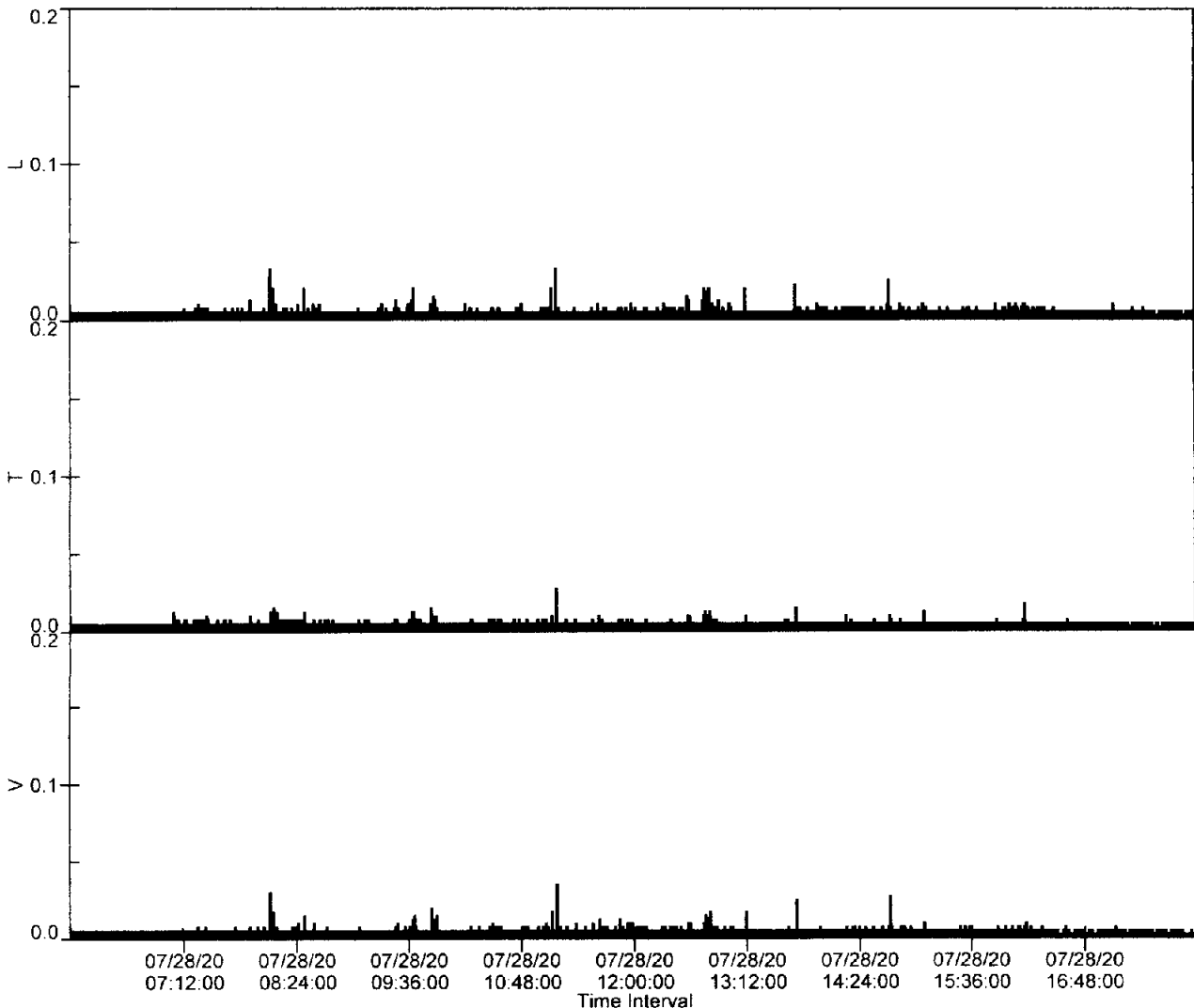
	L	T	V
PPV (in/s)	0.033	0.028	0.035
FREQ (Hz)	21.7	25.0	23.8
Peak Air Pressure:	76 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 88

Record Max PPV: 0.035 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/29/2020 **Time:** 06:01:00
Event: 89
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.098	0.045	0.060
FREQ (Hz)	13.9	17.2	17.9
Peak Air Pressure:	76 db		

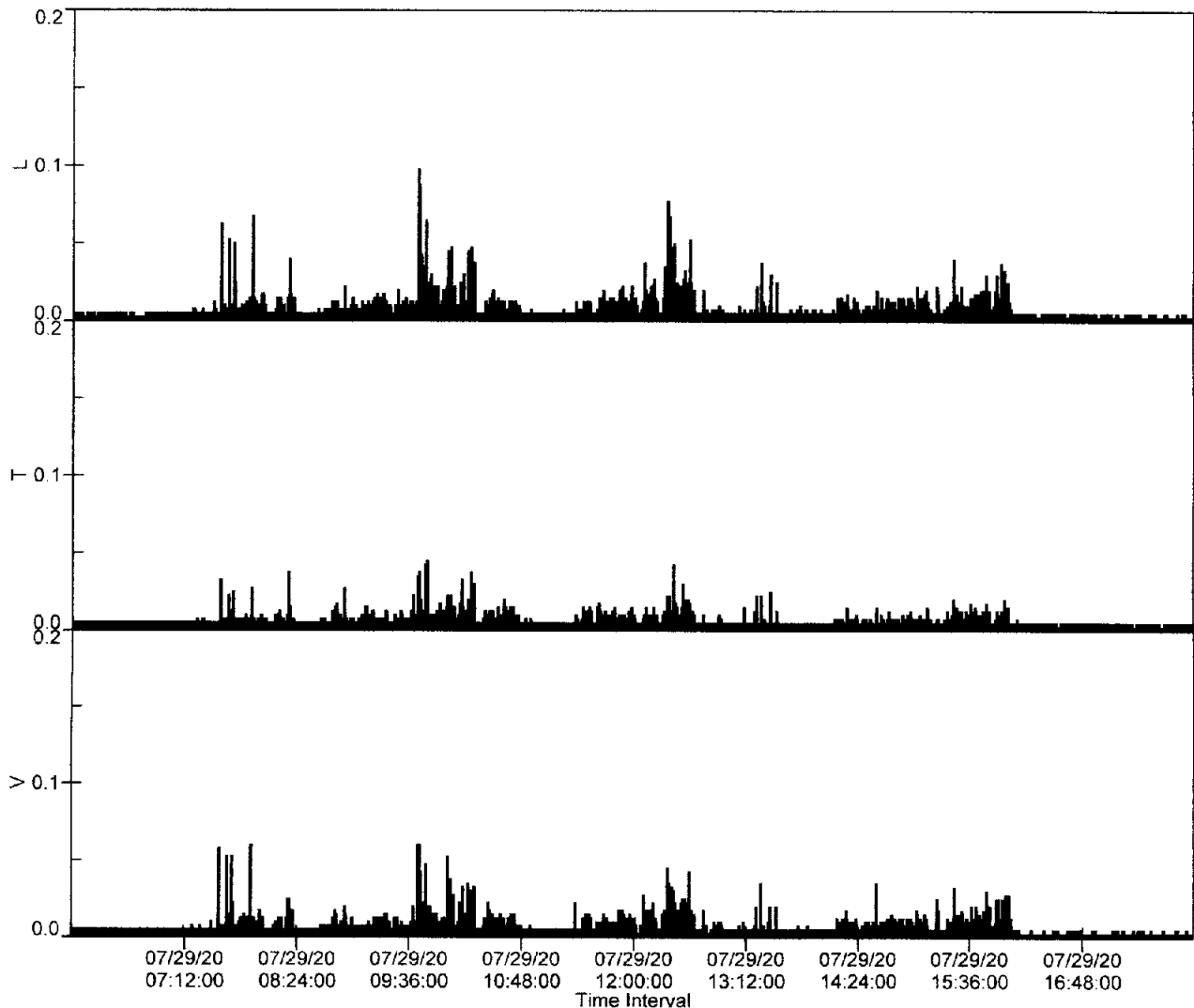
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 89

Record Max PPV: 0.098 in/s Record Max DB: 76 db



SN: 3804 v3.22
Date: 07/30/2020 **Time:** 06:01:00
Event: 90
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.060	0.038	0.055
FREQ (Hz)	19.2	38.5	20.8
Peak Air Pressure:	76 db		

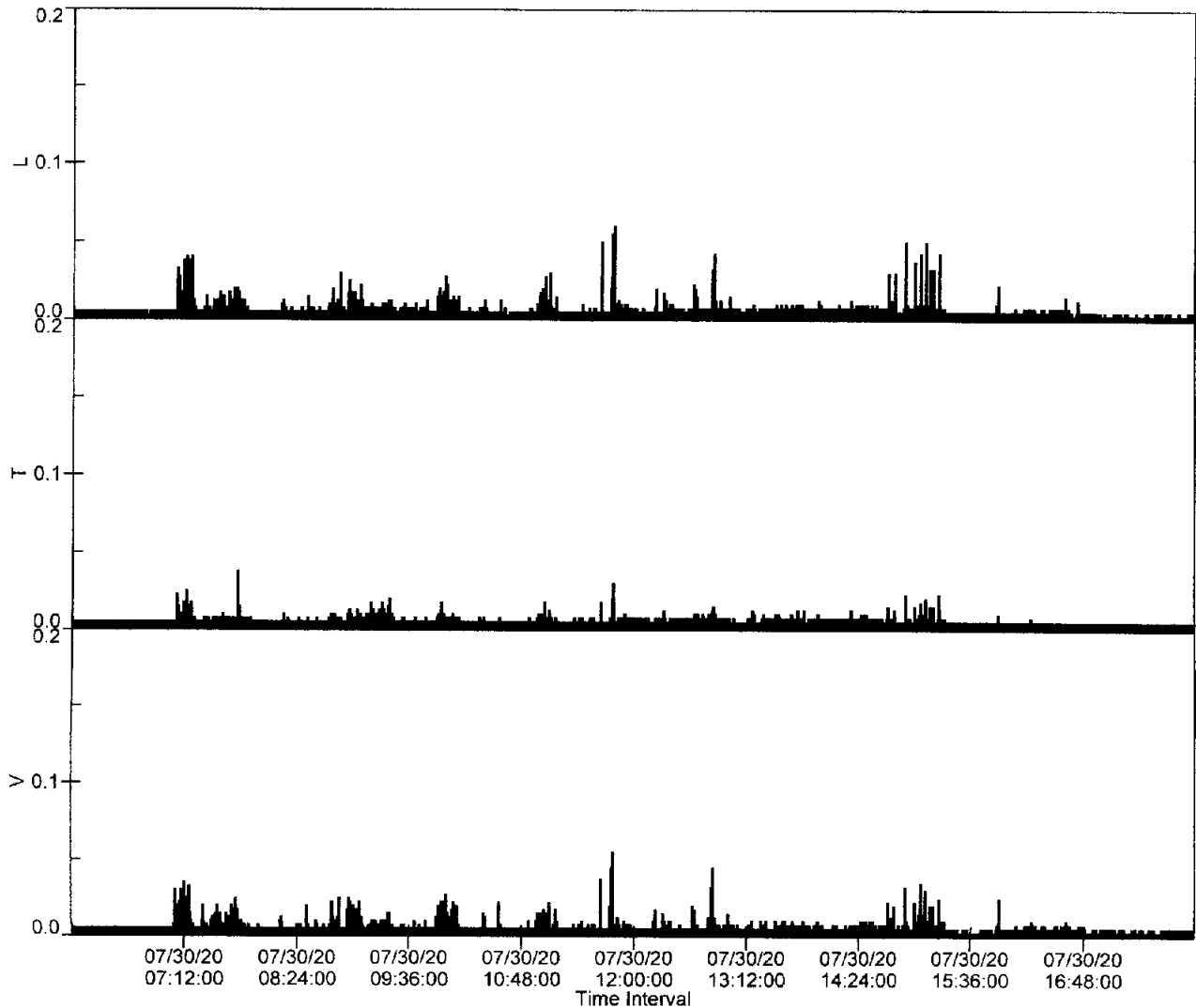
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 90

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



SN: 3804 v3.22
Date: 07/31/2020 **Time:** 06:01:00
Event: 91
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.108	0.055	0.100
FREQ (Hz)	20.8	27.8	35.7
Peak Air Pressure:	78 db		

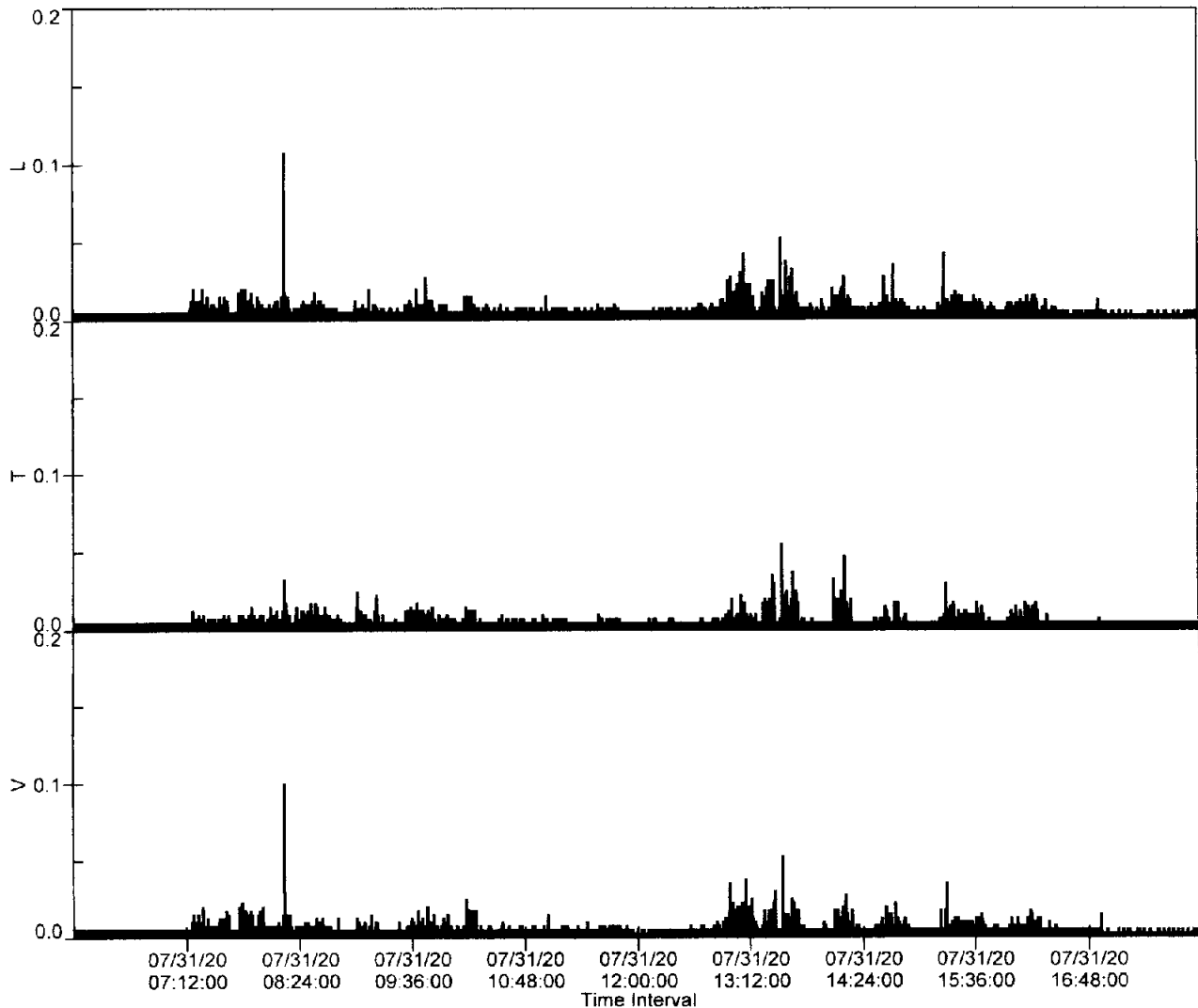
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 91

Record Max PPV: 0.108 in/s Record Max DB: 78 db



SN: 3804 v3.22
Date: 08/01/2020 **Time:** 06:01:00
Event: 92
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

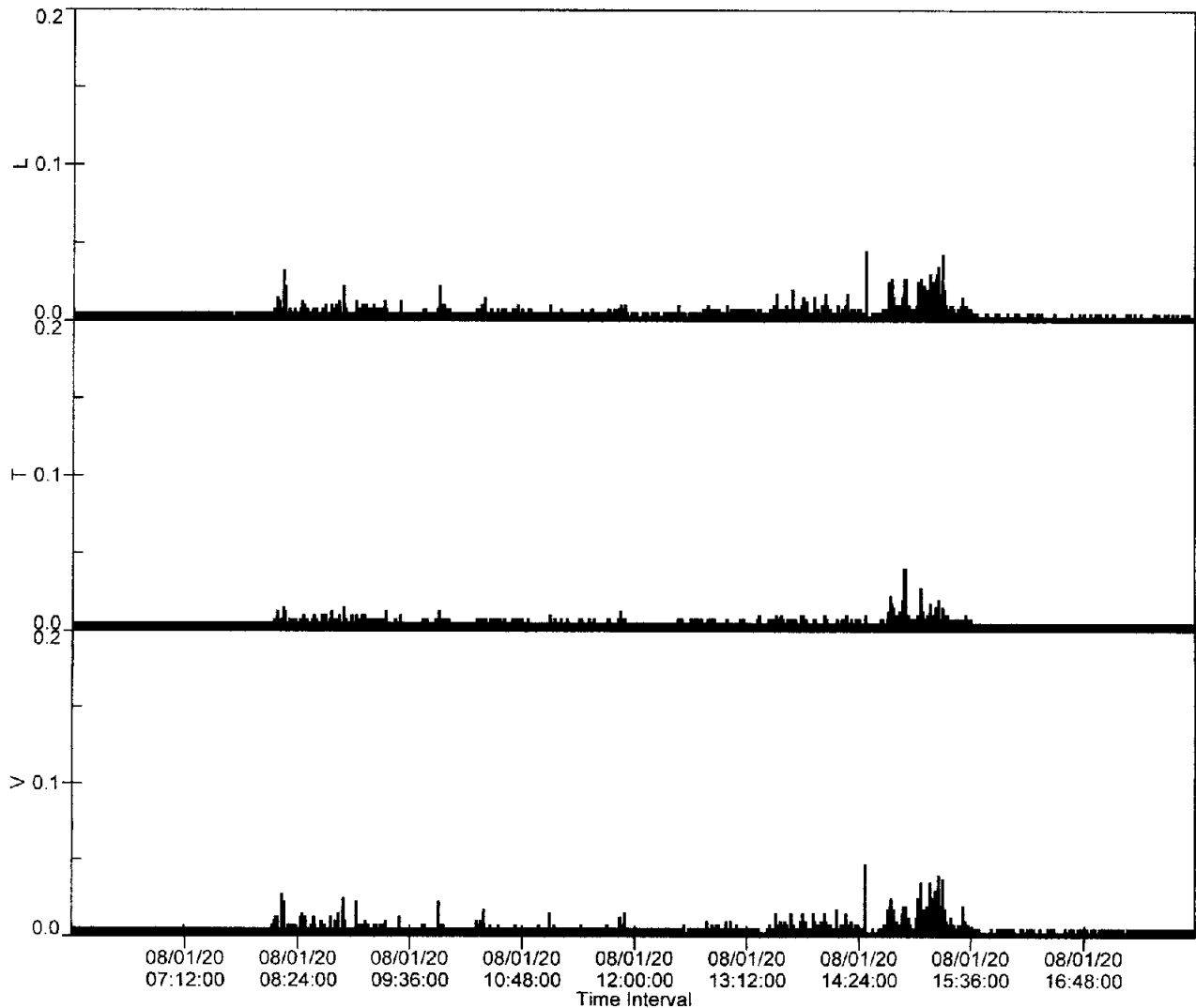
	L	T	V
PPV (in/s)	0.045	0.040	0.048
FREQ (Hz)	22.7	14.3	25.0
Peak Air Pressure:	79 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 92

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



SN: 3804 v3.22
Date: 08/02/2020 **Time:** 06:01:00
Event: 93
Client: BERGER CONST
Operation: EXCAVATION
Location: #3 WSNP
Distance: 25.
Operator: CTI INC
Comment: NE CORNER OF SITE

**Continuous Monitor Recording
Summary Data**

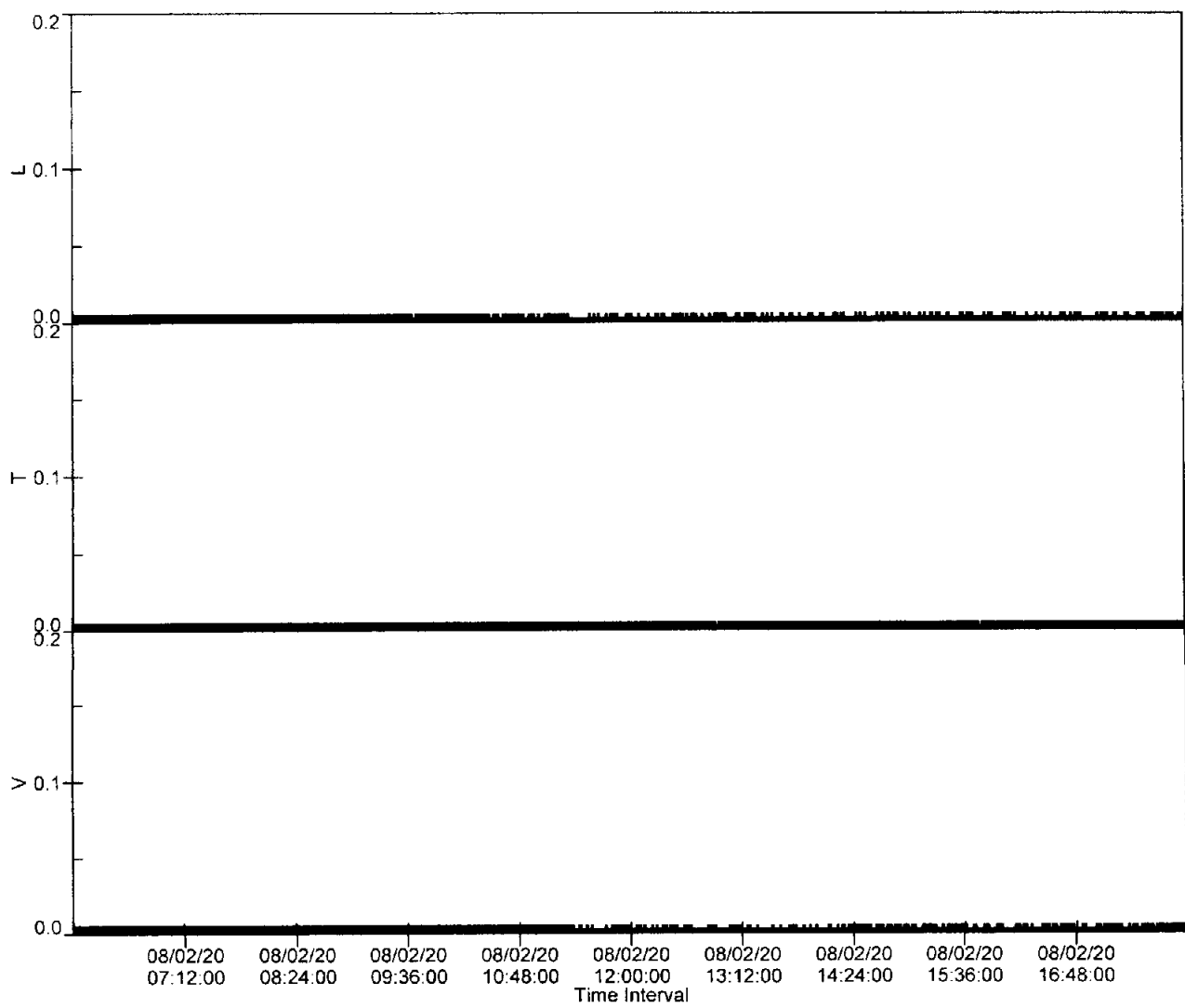
	L	T	V
PPV (in/s)	0.008	0.010	0.008
FREQ (Hz)	.3	2.3	.3
Peak Air Pressure:	76 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/26/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3804 Event: 93

Record Max PPV: 0.010 in/s Record Max DB: 76 db



SN: 5033 v3.66
Date: 07/20/2020 **Time:** 06:01:00
Event: 96
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNSP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.028	0.033	0.040
FREQ (Hz)	250.0	55.6	19.2
Peak Air Pressure:	92 db		

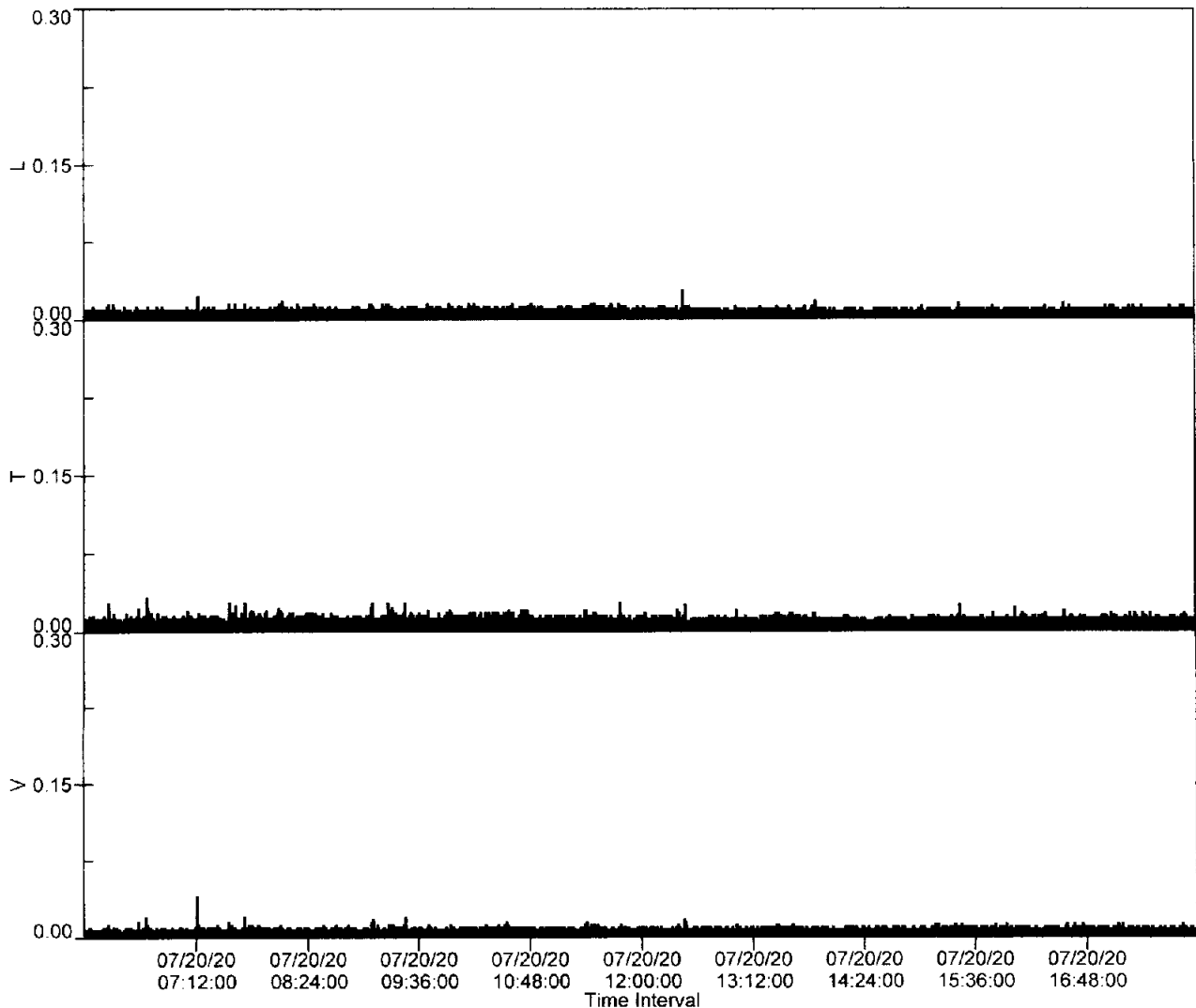
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 96

Record Max PPV: 0.040 in/s Record Max DB: 92 db



SN: 5033 v3.66
Date: 07/21/2020 **Time:** 06:01:00
Event: 97
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNSP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

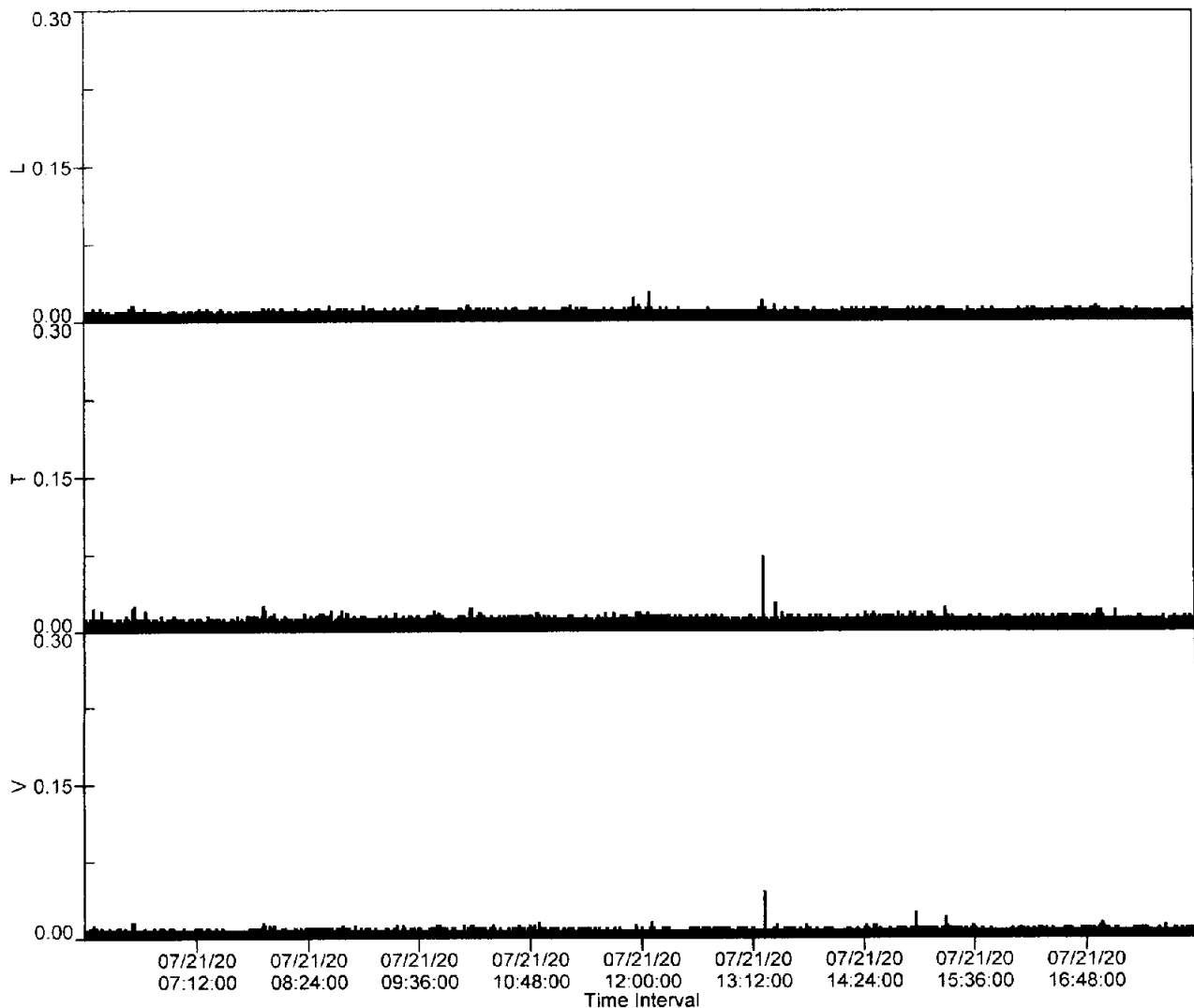
	L	T	V
PPV (in/s)	0.028	0.073	0.045
FREQ (Hz)	250.0	55.6	62.5
Peak Air Pressure:	87 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 97

Record Max PPV: 0.073 in/s Record Max DB: 87 db



SN: 5033 v3.66
Date: 07/22/2020 **Time:** 06:01:00
Event: 98
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

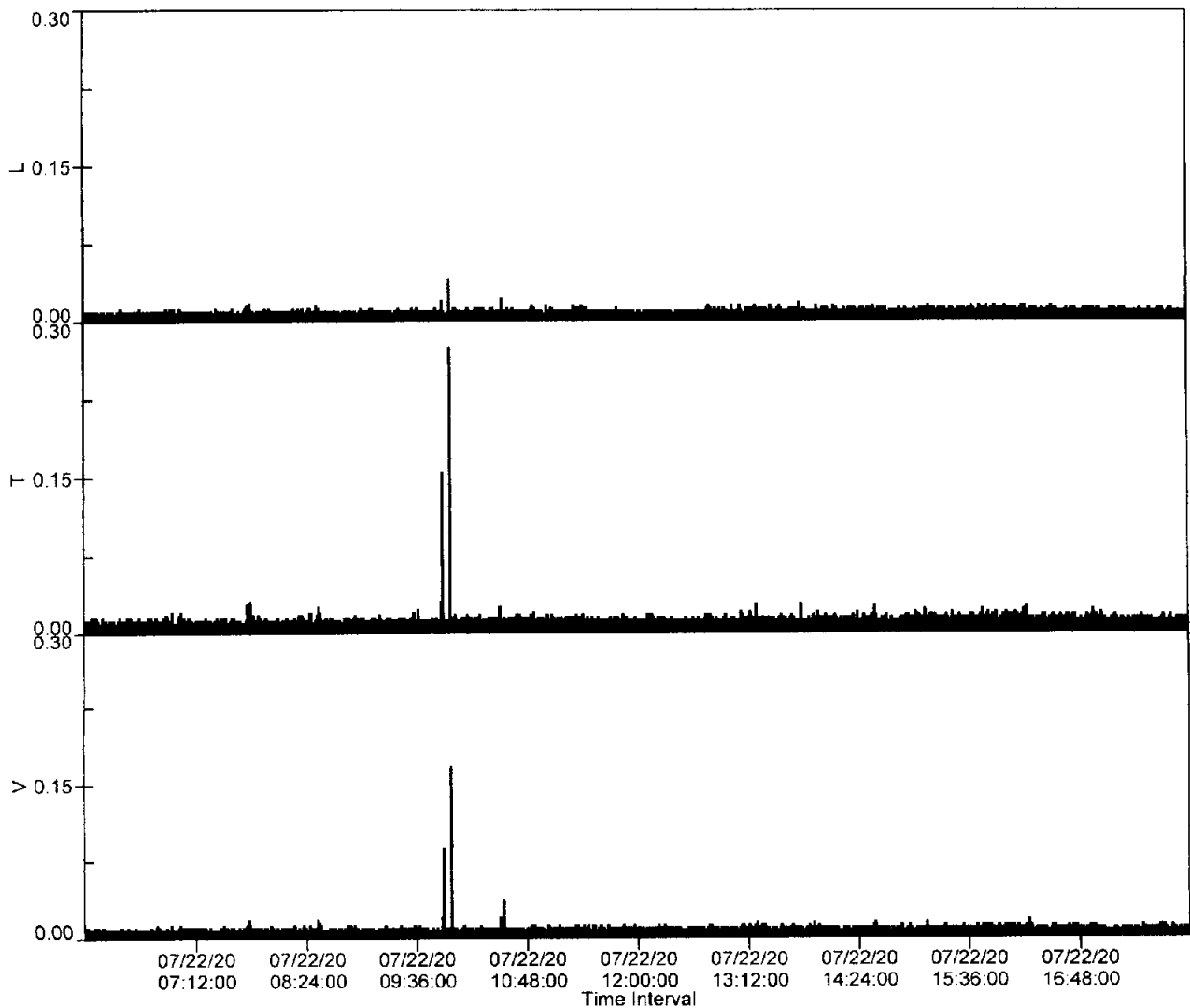
	L	T	V
PPV (in/s)	0.040	0.275	0.168
FREQ (Hz)	62.5	55.6	55.6
Peak Air Pressure:	89 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 98

Record Max PPV: 0.275 in/s Record Max DB: 89 db



SN: 5033 v3.66
Date: 07/23/2020 **Time:** 06:01:00
Event: 99
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

Continuous Monitor Recording
Summary Data

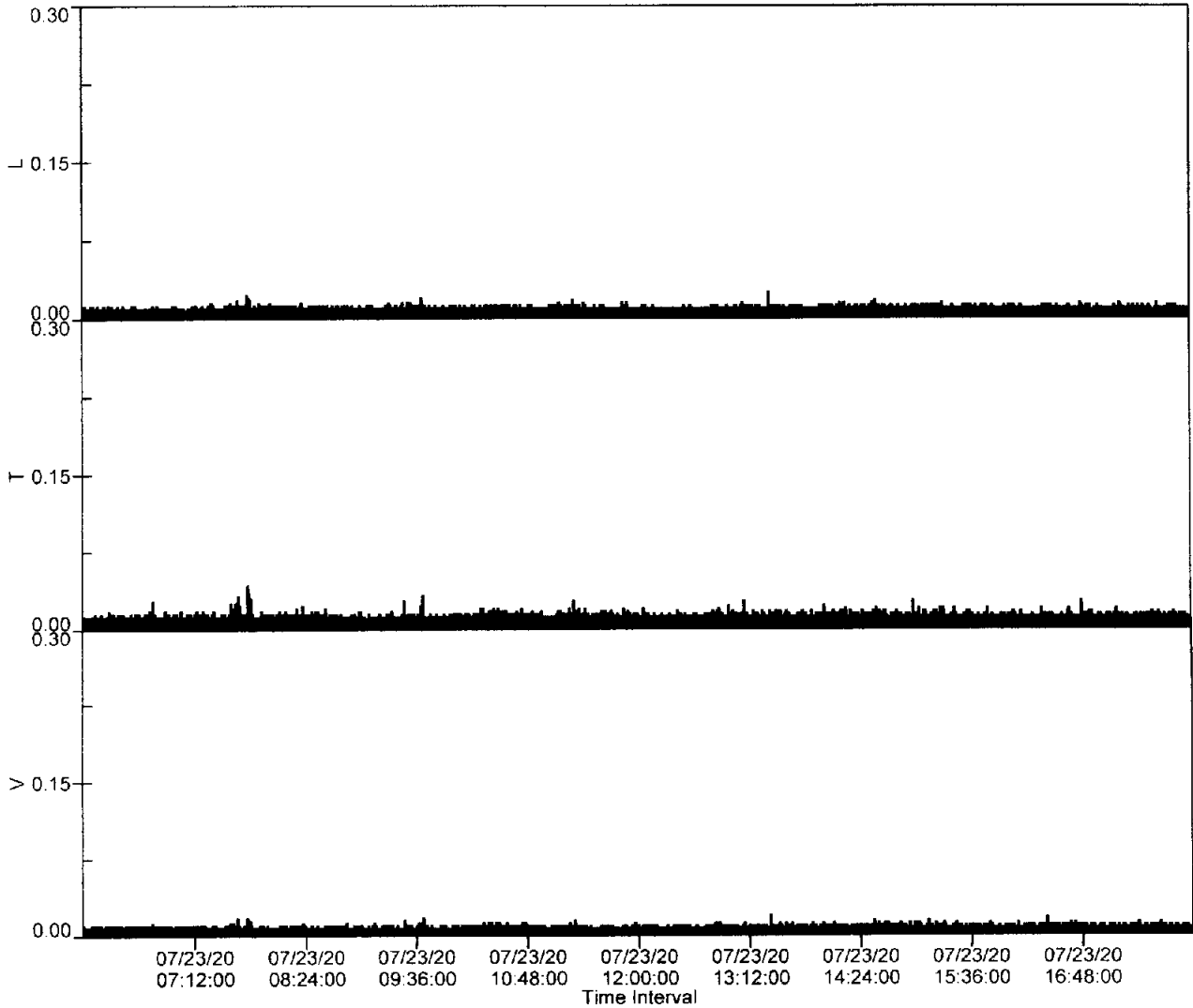
	L	T	V
PPV (in/s)	0.025	0.043	0.020
FREQ (Hz)	83.3	5.4	62.5
Peak Air Pressure:	90 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 99

Record Max PPV: 0.043 in/s Record Max DB: 90 db



SN: 5033 v3.66
Date: 07/24/2020 **Time:** 06:01:00
Event: 100
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

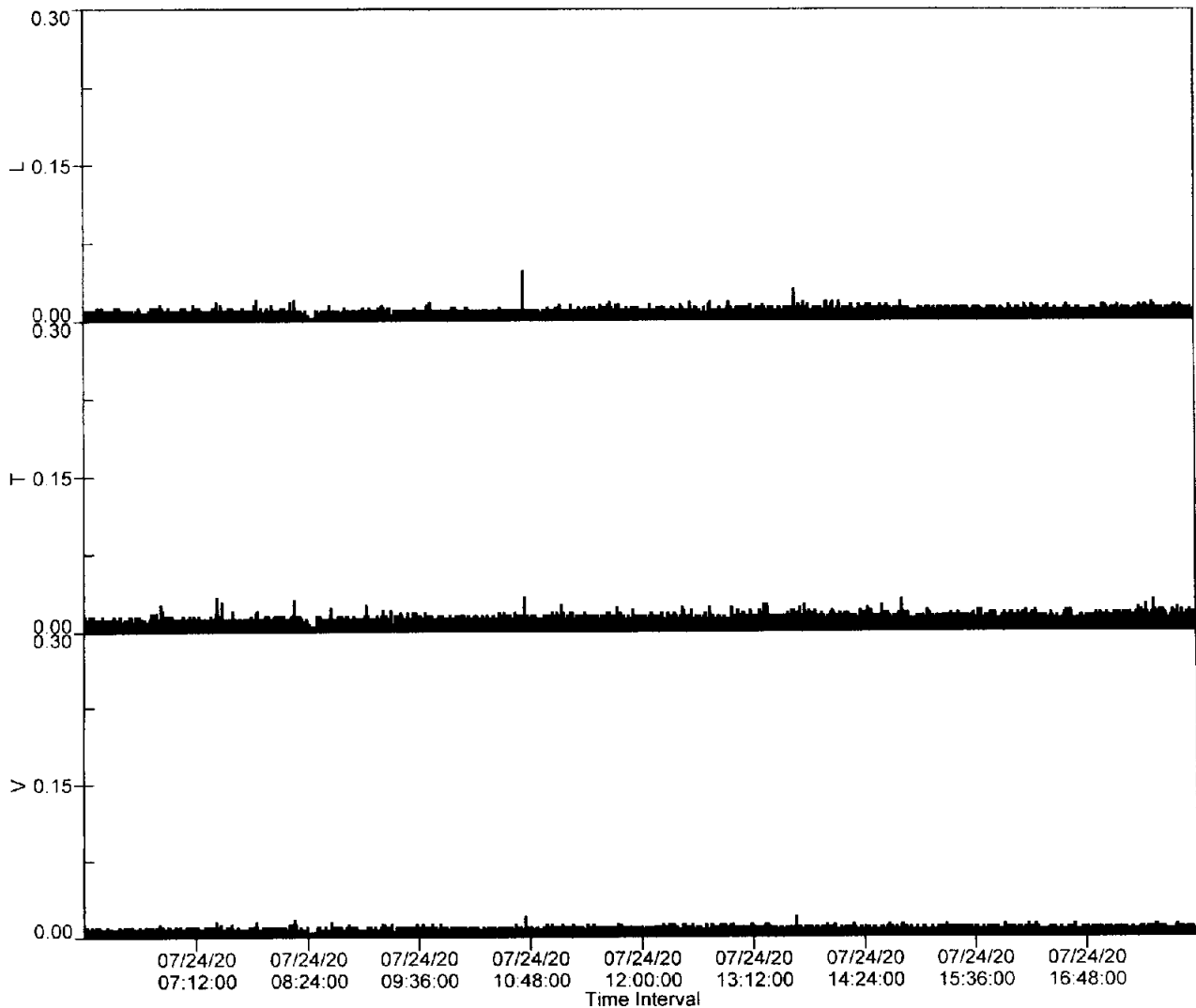
	L	T	V
PPV (in/s)	0.048	0.033	0.020
FREQ (Hz)	166.7	4.3	250.0
Peak Air Pressure:	87 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 100

Record Max PPV: 0.048 in/s Record Max DB: 87 db



SN: 5033 v3.66
Date: 07/25/2020 **Time:** 06:01:00
Event: 101
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

Continuous Monitor Recording

Summary Data

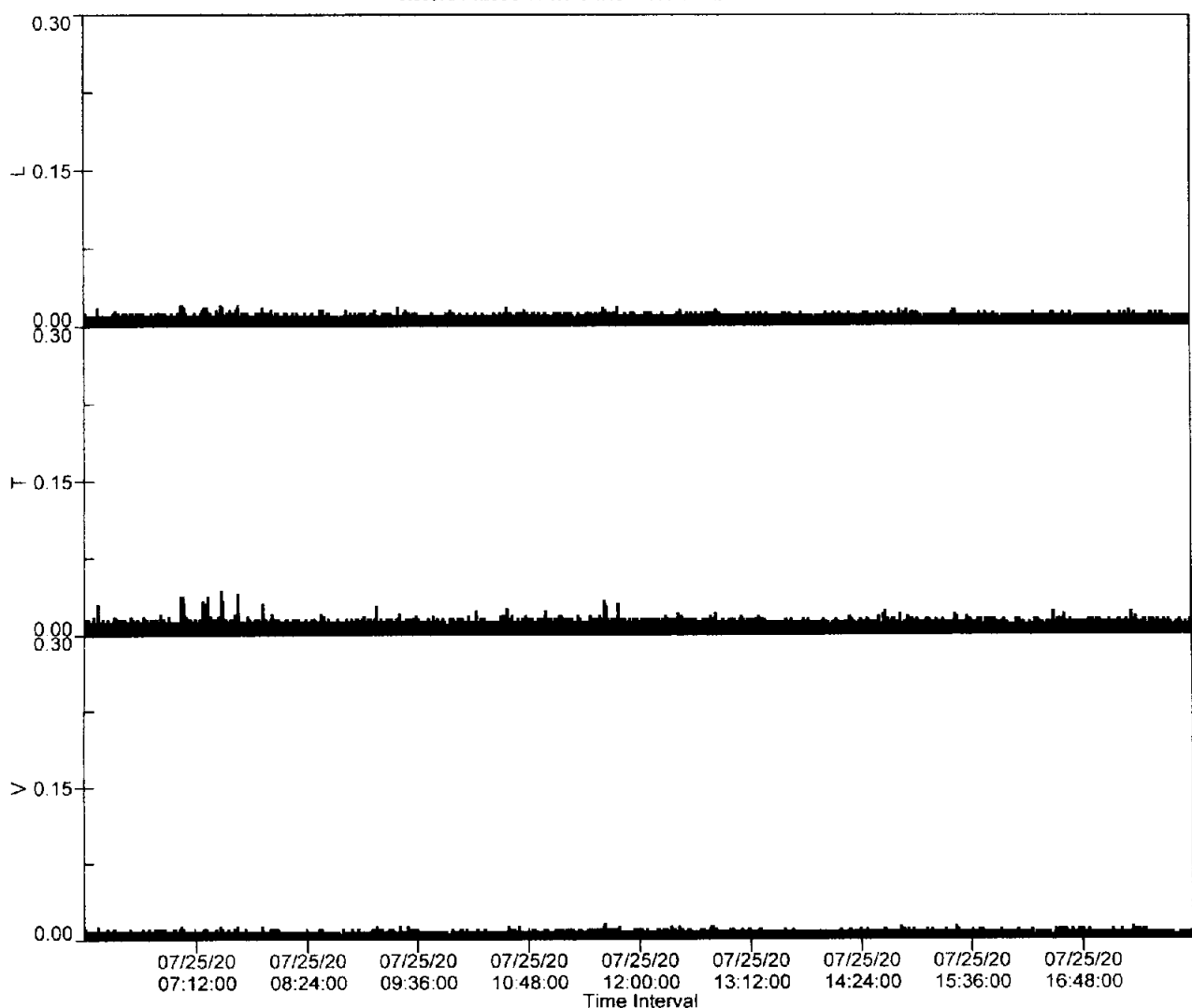
	L	T	V
PPV (in/s)	0.020	0.043	0.015
FREQ (Hz)	2.2	3.4	250.0
Peak Air Pressure:	92 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 101

Record Max PPV: 0.043 in/s Record Max DB: 92 db



SN: 5033 v3.66
Date: 07/26/2020 **Time:** 06:01:00
Event: 102
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.038	0.013
FREQ (Hz)	6.4	10.2	250.0
Peak Air Pressure:	95 db		

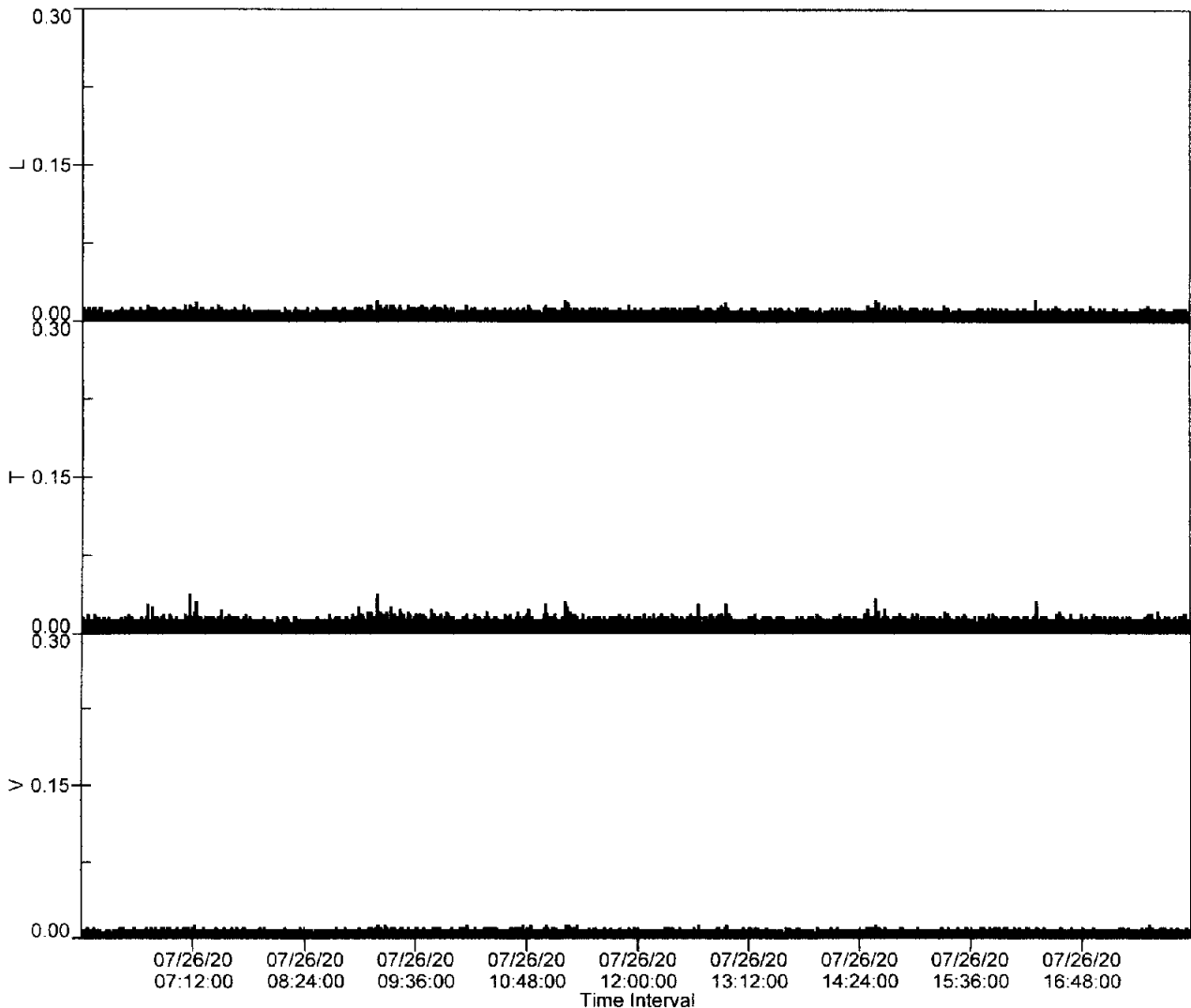
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 102

Record Max PPV: 0.038 in/s Record Max DB: 95 db



SN: 5033 v3.66
Date: 07/28/2020 **Time:** 06:01:00
Event: 104
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

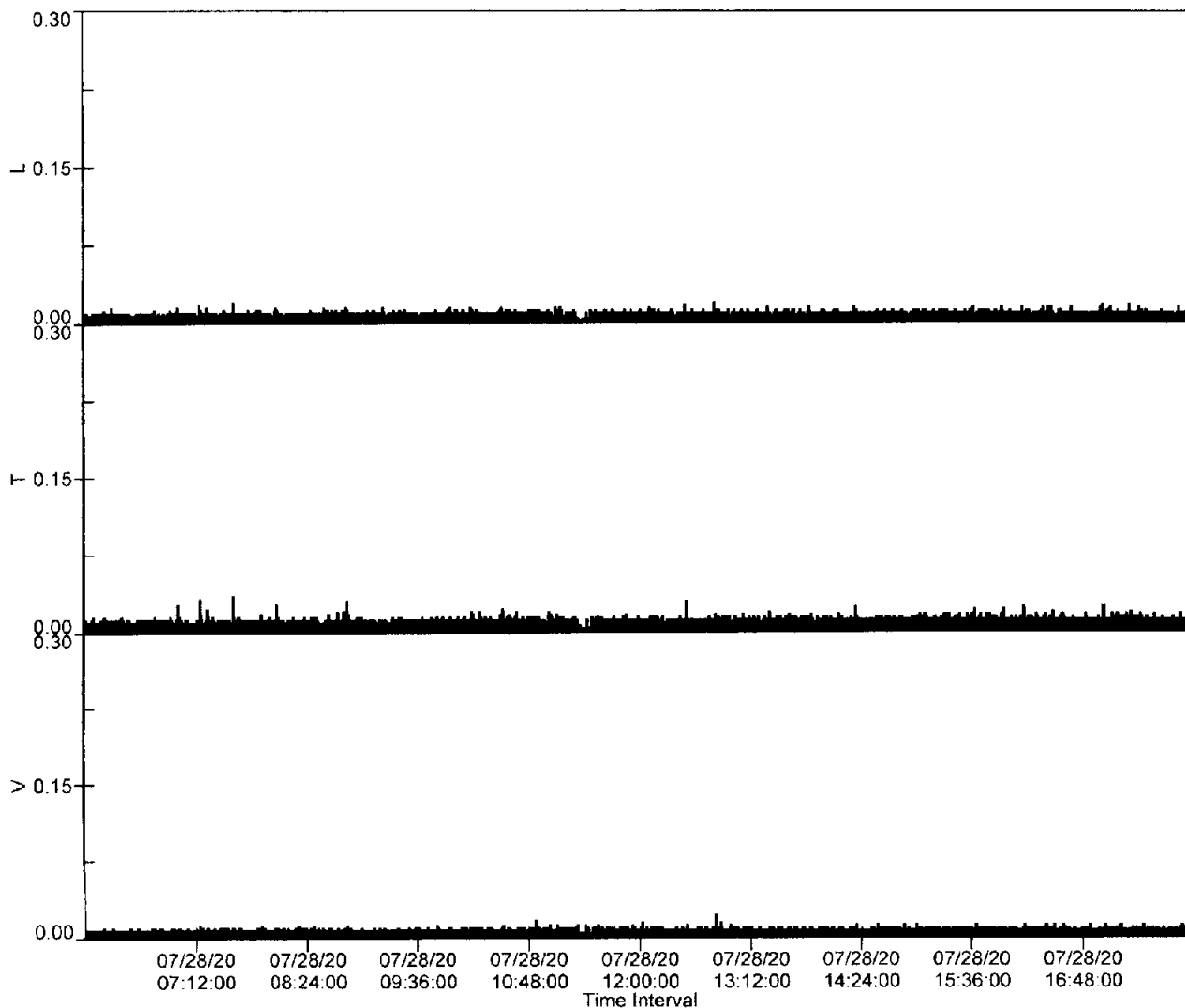
	L	T	V
PPV (in/s)	0.020	0.035	0.023
FREQ (Hz)	1.1	2.0	500.0
Peak Air Pressure:	97 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 104

Record Max PPV: 0.035 in/s Record Max DB: 97 db



SN: 5033 v3.66
Date: 07/29/2020 **Time:** 06:01:00
Event: 105
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

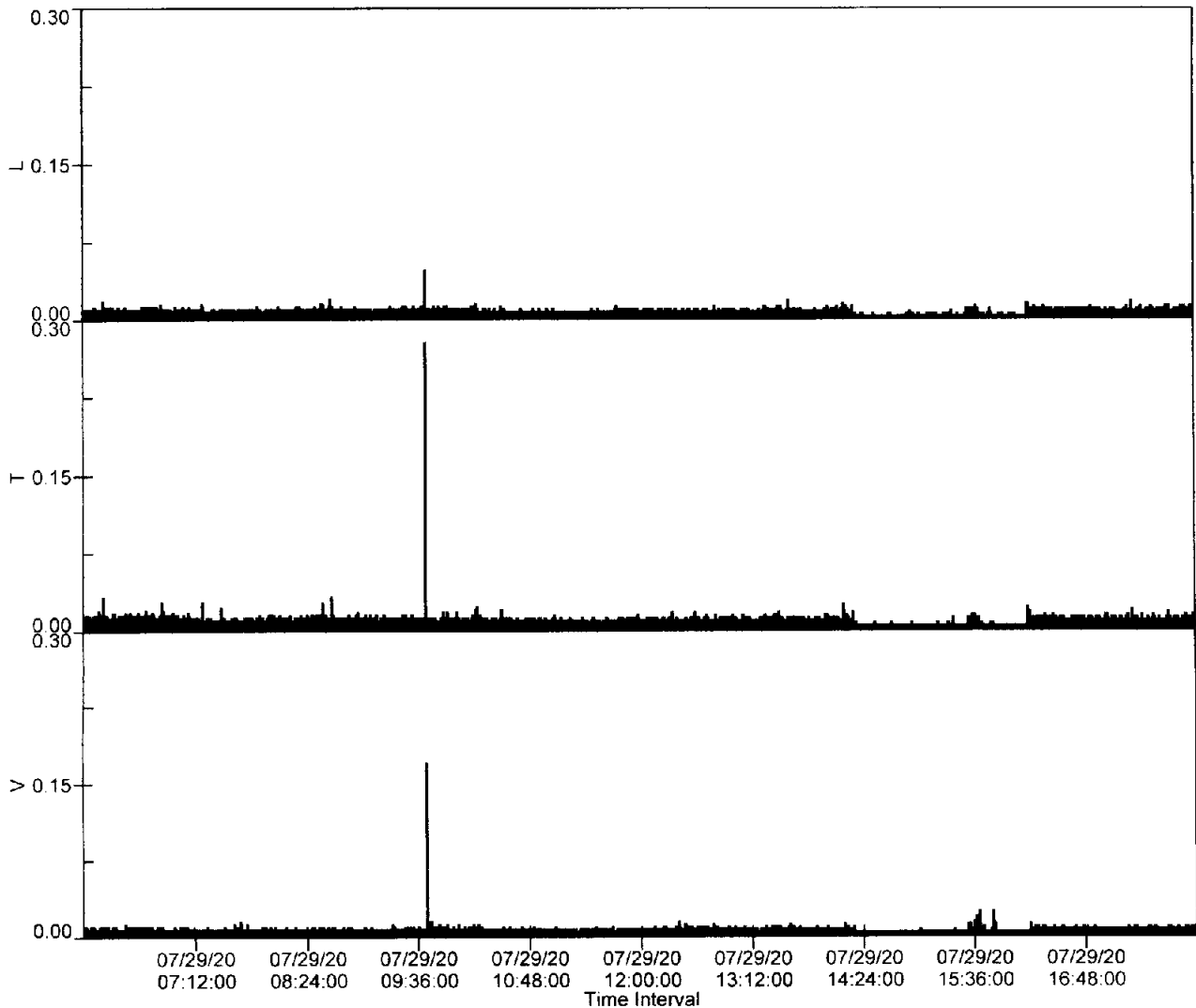
	L	T	V
PPV (in/s)	0.048	0.278	0.170
FREQ (Hz)	71.4	62.5	71.4
Peak Air Pressure:	90 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 105

Record Max PPV: 0.278 in/s Record Max DB: 90 db



SN: 5033 v3.66
Date: 07/30/2020 **Time:** 06:01:00
Event: 106
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

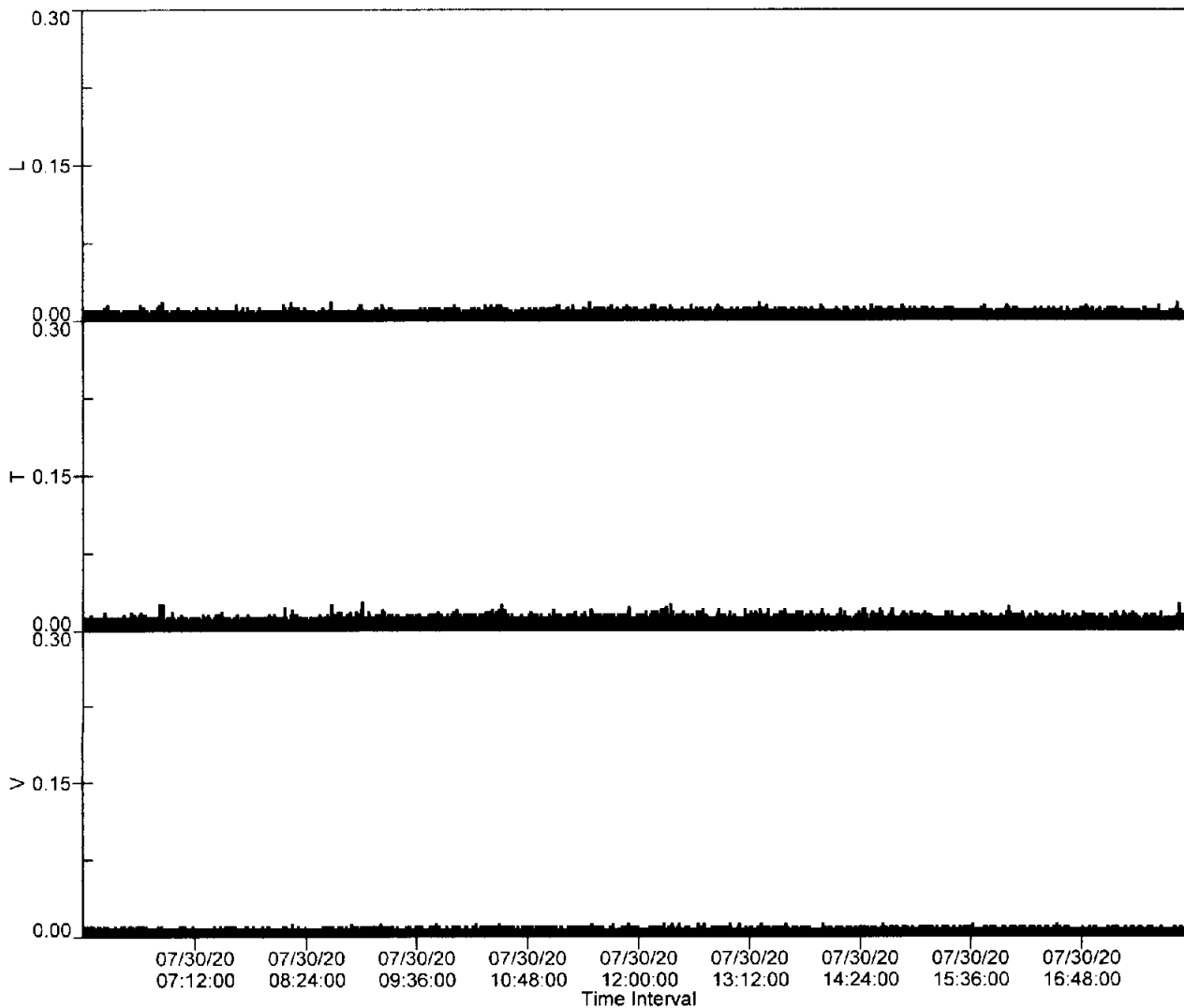
	L	T	V
PPV (in/s)	0.018	0.028	0.013
FREQ (Hz)	500.0	3.3	166.7
Peak Air Pressure:	95 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 106

Record Max PPV: 0.028 in/s Record Max DB: 95 db



SN: 5033 v3.66
Date: 07/31/2020 **Time:** 06:01:00
Event: 107
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNSP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL.

**Continuous Monitor Recording
Summary Data**

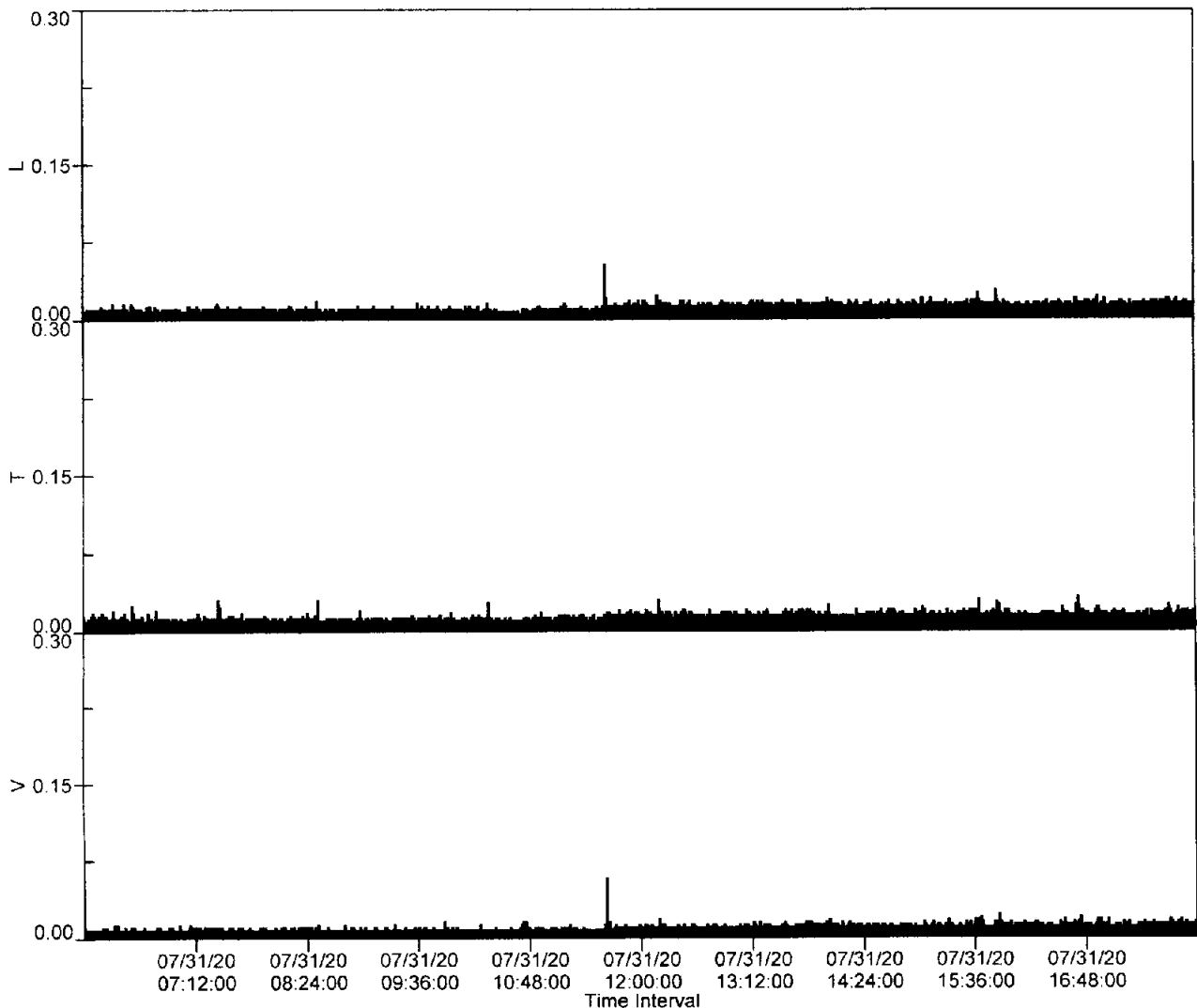
	L	T	V
PPV (in/s)	0.053	0.033	0.058
FREQ (Hz)	62.5	3.1	55.6
Peak Air Pressure:	103 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 107

Record Max PPV: 0.058 in/s Record Max DB: 103 db



SN: 5033 v3.66
Date: 08/01/2020 **Time:** 06:01:00
Event: 108
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNSP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

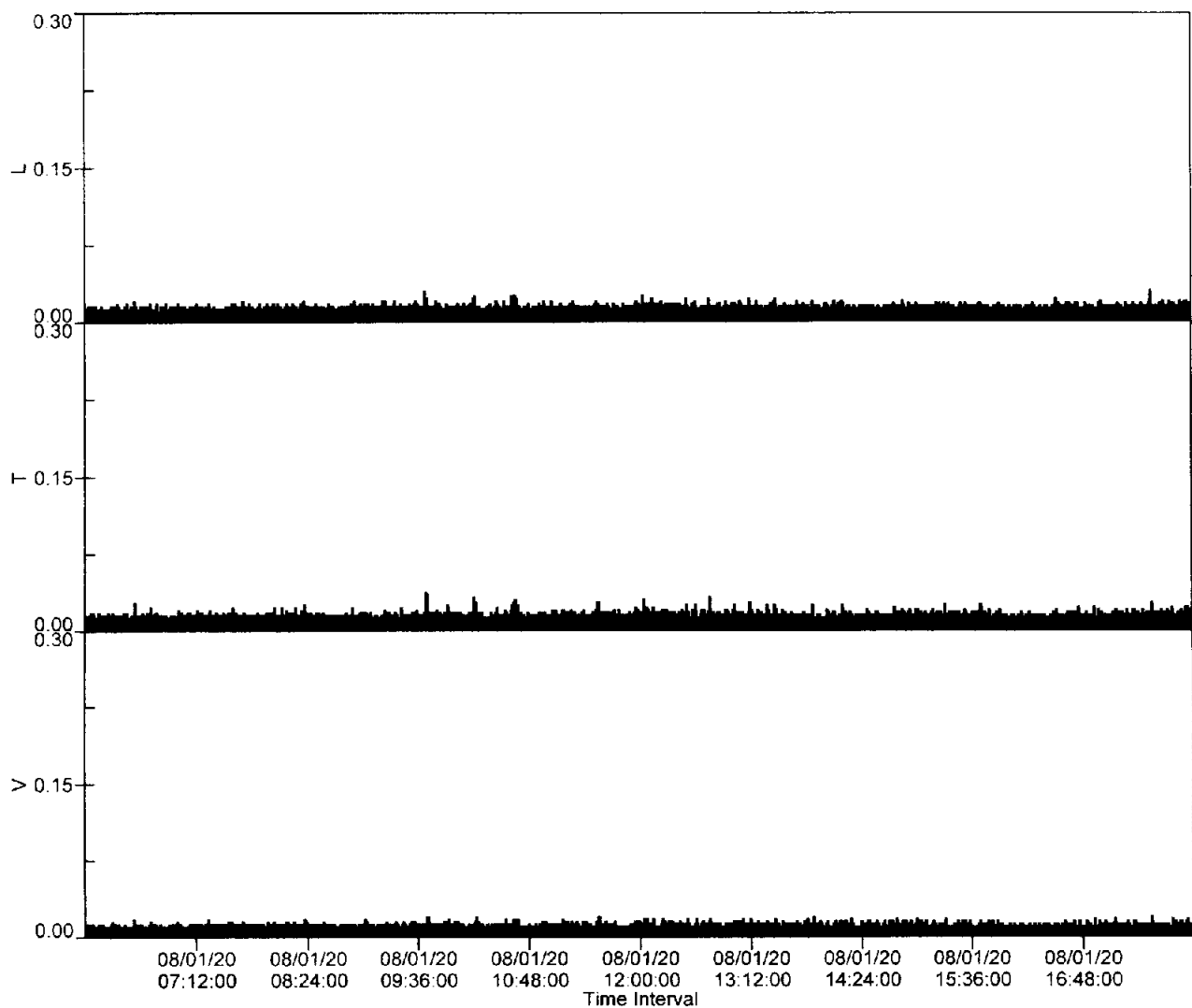
	L	T	V
PPV (in/s)	0.030	0.038	0.020
FREQ (Hz)	500.0	3.0	500.0
Peak Air Pressure:	104 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 108

Record Max PPV: 0.038 in/s Record Max DB: 104 db



SN: 5033 v3.66
Date: 08/02/2020 **Time:** 06:01:00
Event: 109
Client: BERGER CONST
Operation: EXCAVATION
Location: #4 WSNSP
Distance: 50.
Operator: CTI INC
Comment: HIGHCREST SCHOOL

**Continuous Monitor Recording
Summary Data**

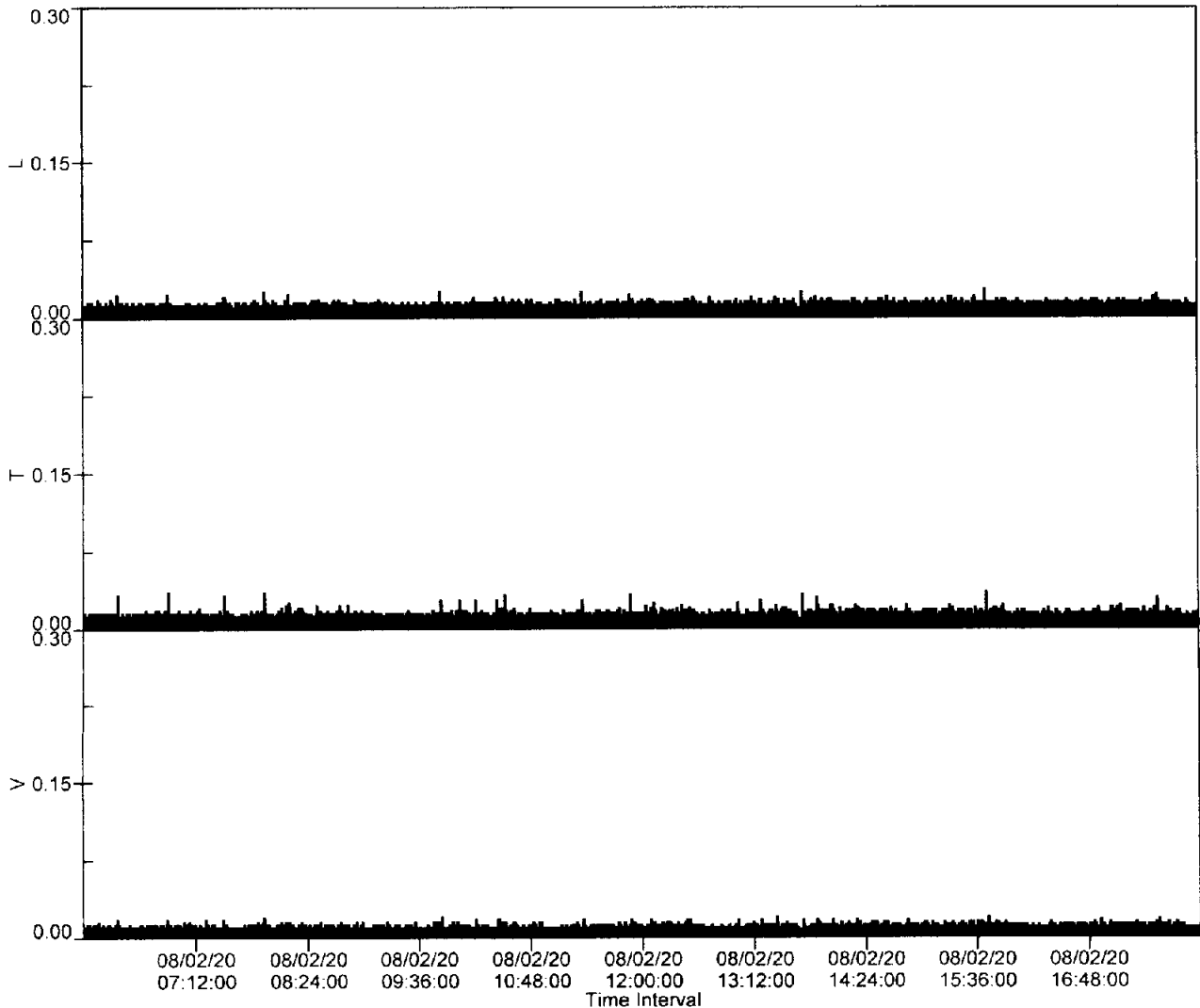
	L	T	V
PPV (in/s)	0.028	0.035	0.020
FREQ (Hz)	500.0	19.2	500.0
Peak Air Pressure:	104 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/06/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5033 Event: 109

Record Max PPV: 0.035 in/s Record Max DB: 104 db



SN: 3802 v3.22
Date: 07/20/2020 **Time:** 06:01:00
Event: 15
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.028	0.025	0.020
FREQ (Hz)	100.0	11.1	12.8
Peak Air Pressure:	76 db		

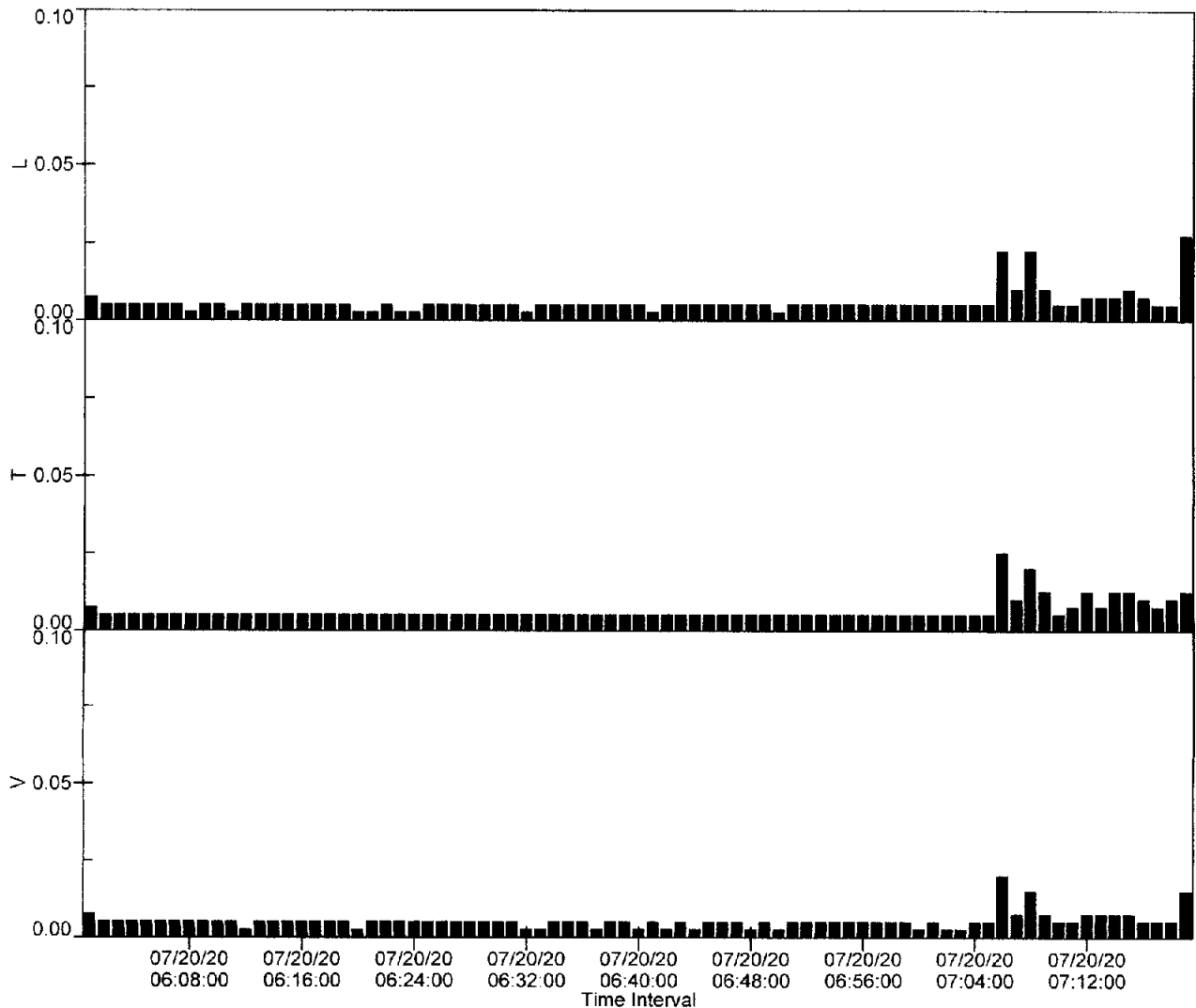
Recording Time: 79 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 15

Record Max PPV: 0.028 in/s Record Max DB: 76 db



SN: 3802 v3.22
Date: 07/20/2020 **Time:** 07:27:00
Event: 1
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.030	0.028	0.025
FREQ (Hz)	27.8	17.9	31.3
Peak Air Pressure:	78 db		

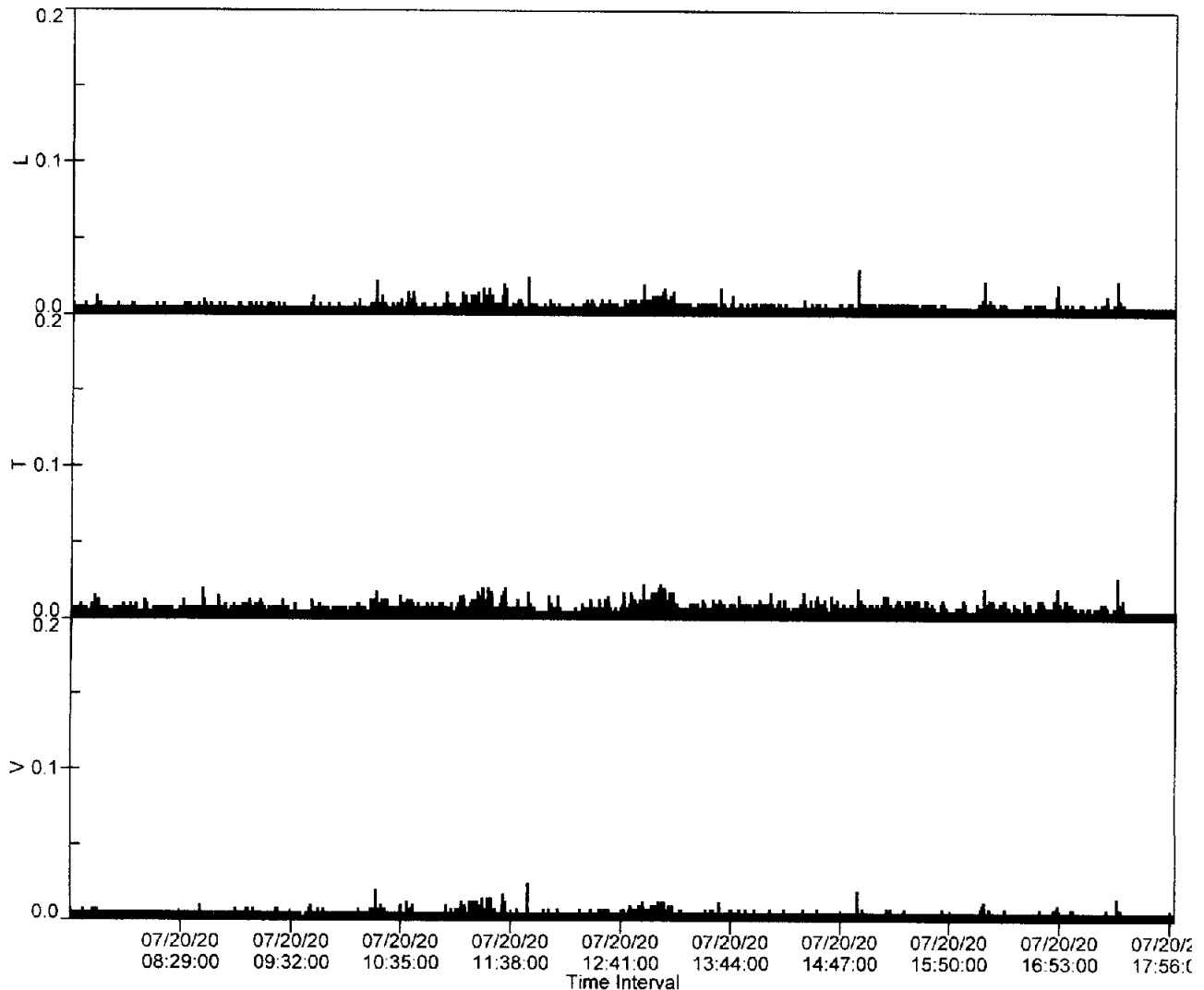
Recording Time: 632 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 1

Record Max PPV: 0.030 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/21/2020 **Time:** 06:01:00
Event: 2
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.053	0.043	0.030
FREQ (Hz)	23.8	16.1	29.4
Peak Air Pressure:	78 db		

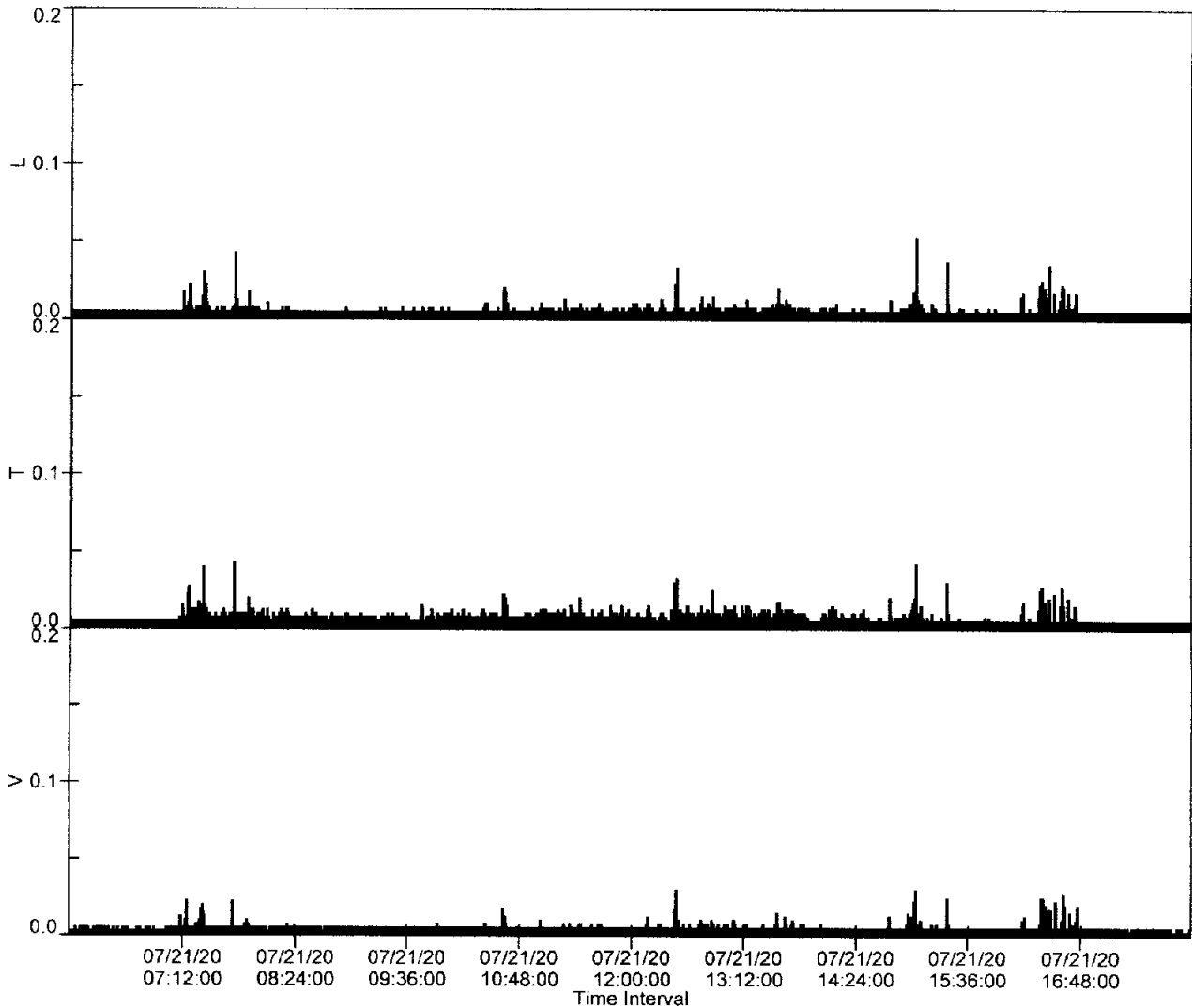
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 2

Record Max PPV: 0.053 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/22/2020 **Time:** 06:01:00
Event: 3
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.030	0.030	0.023
FREQ (Hz)	31.3	22.7	25.0
Peak Air Pressure:	78 db		

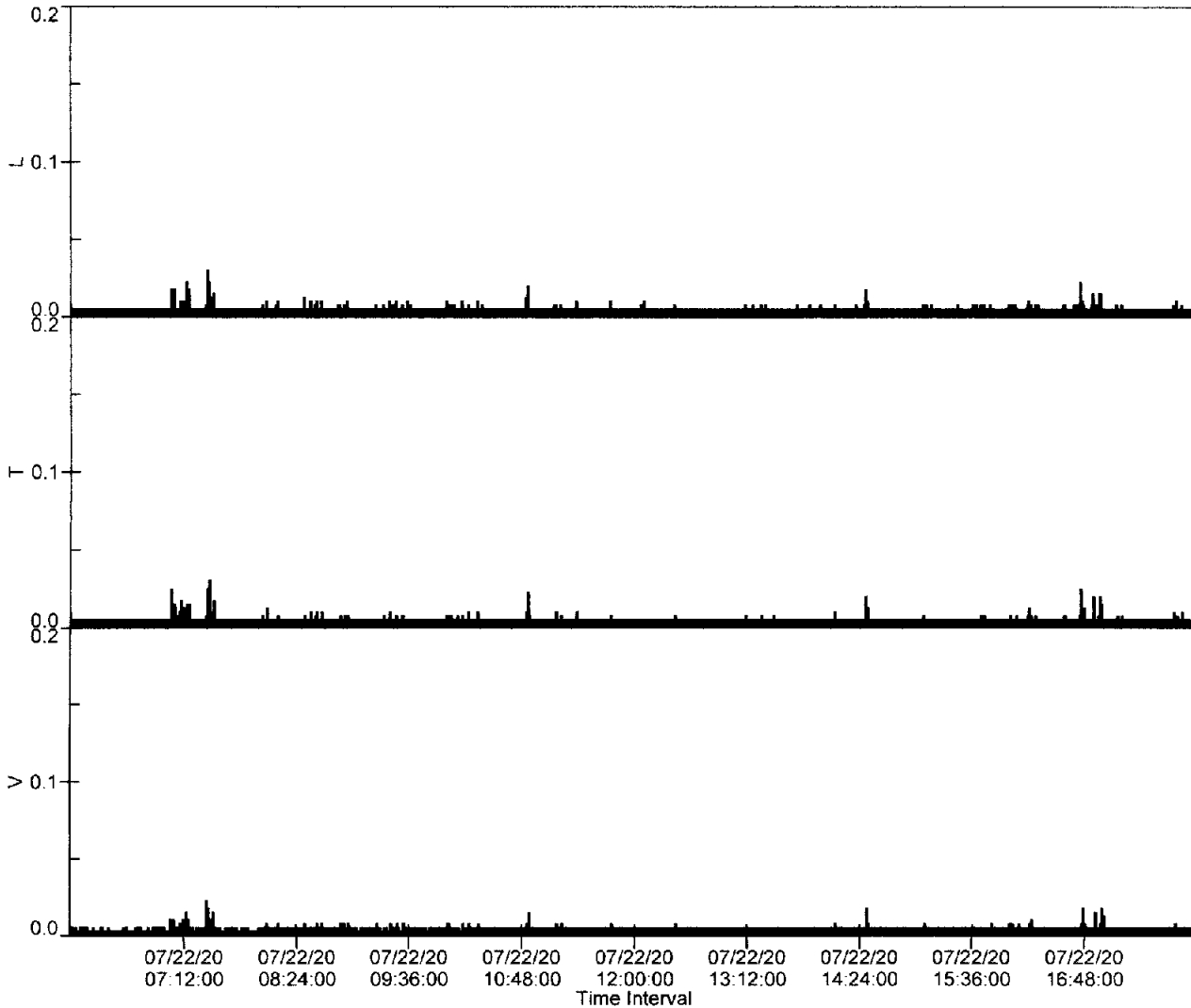
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 3

Record Max PPV: 0.030 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/23/2020 **Time:** 06:01:00
Event: 4
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.080	0.045	0.060
FREQ (Hz)	20.0	21.7	17.9
Peak Air Pressure:	78 db		

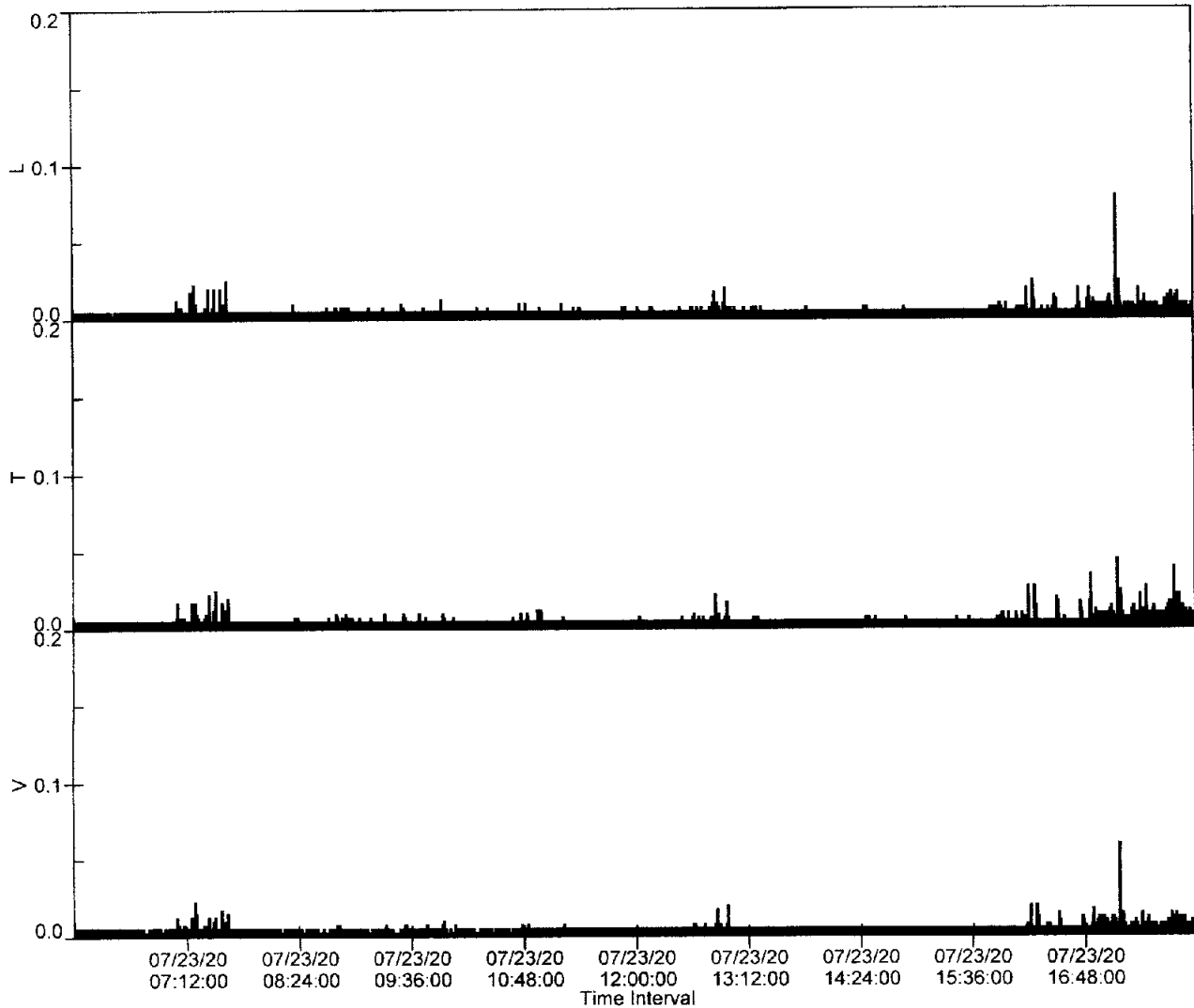
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 4

Record Max PPV: 0.080 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/24/2020 **Time:** 06:01:00
Event: 5
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.028	0.033	0.025
FREQ (Hz)	27.8	8.9	15.6
Peak Air Pressure:	78 db		

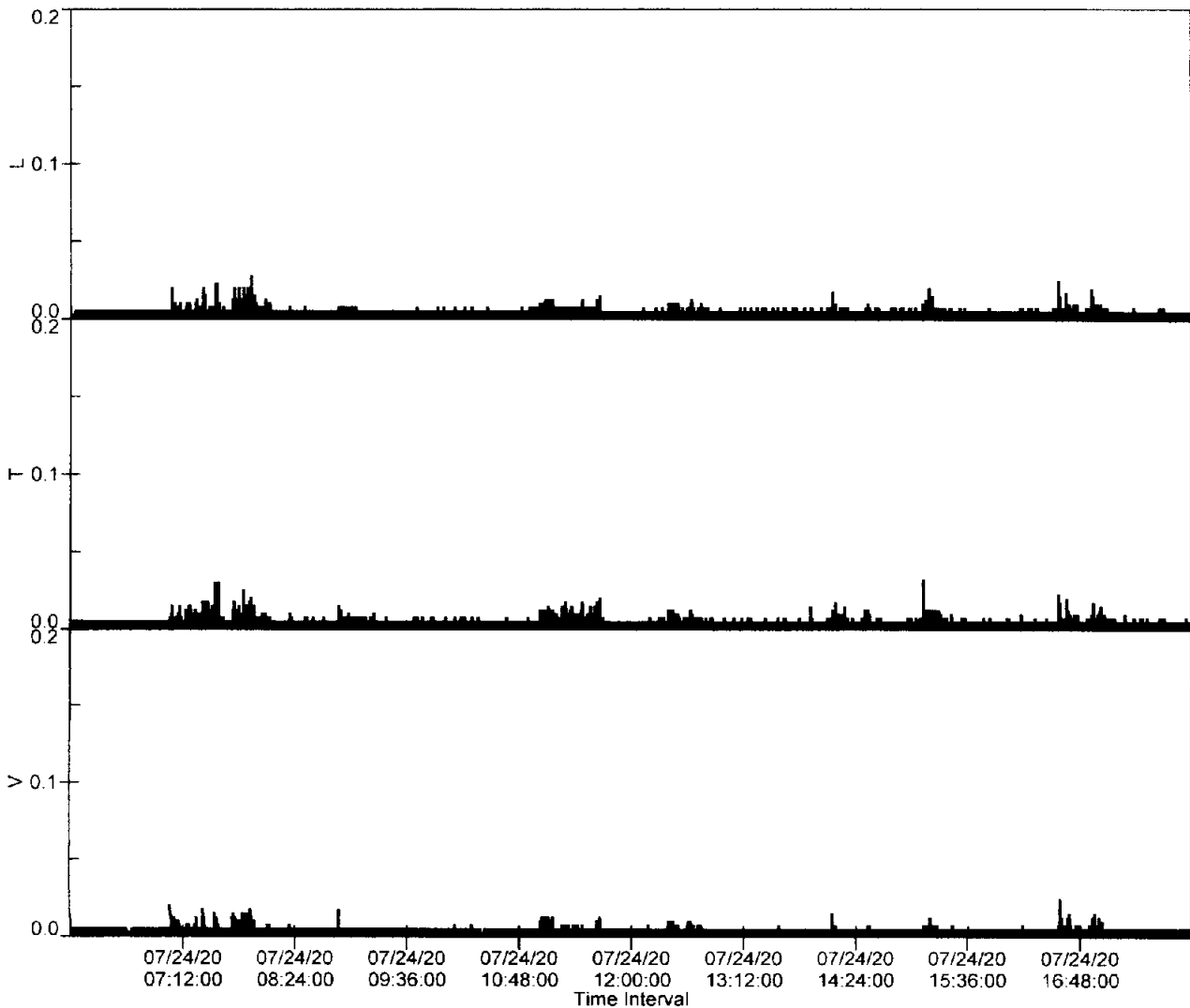
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 5

Record Max PPV: 0.033 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/25/2020 **Time:** 06:01:00
Event: 6
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.173	0.118	0.100
FREQ (Hz)	20.0	20.0	15.2
Peak Air Pressure:	78 db		

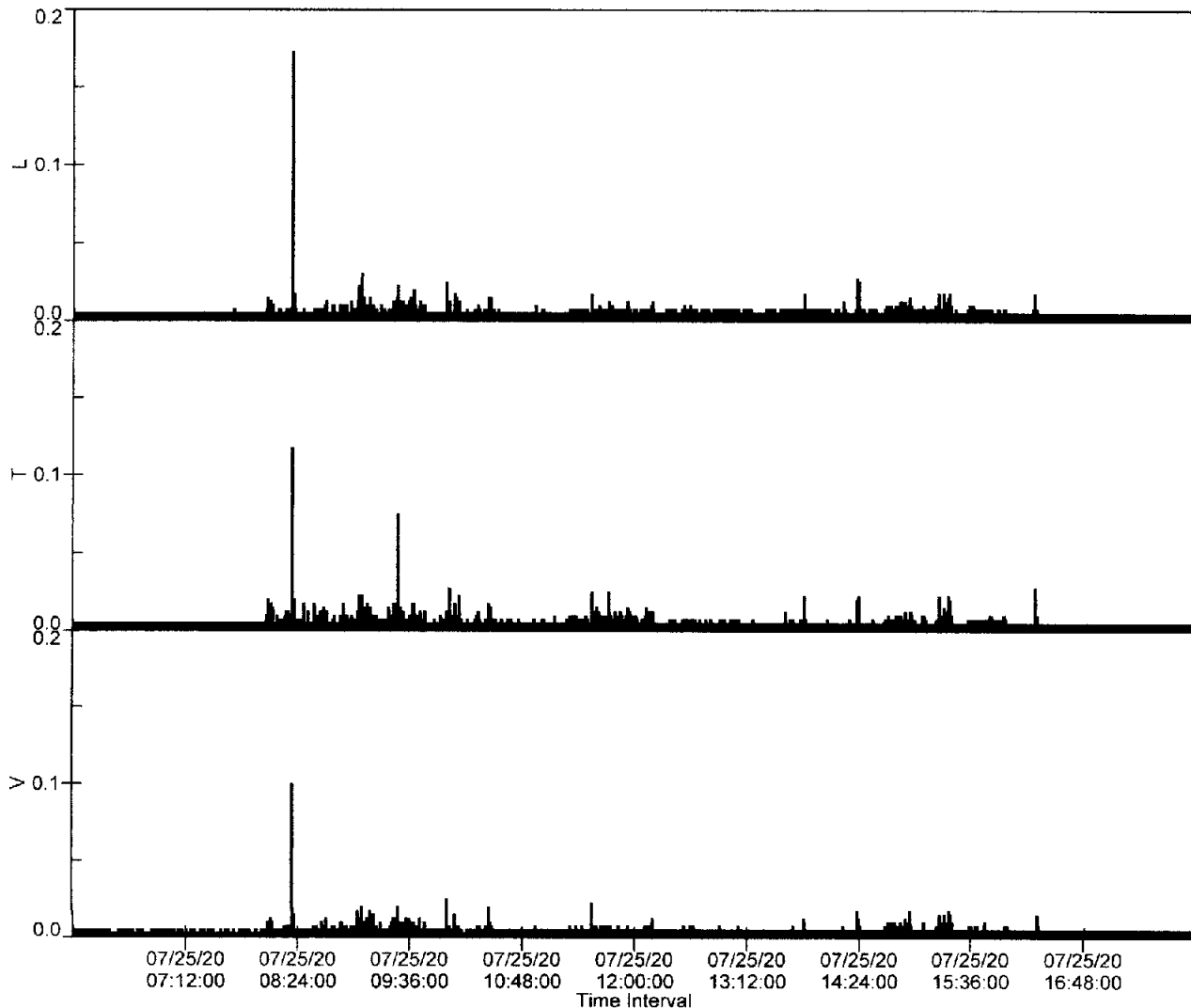
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 6

Record Max PPV: 0.173 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/26/2020 **Time:** 06:01:00
Event: 7
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.7	3.2	.3
Peak Air Pressure:	78 db		

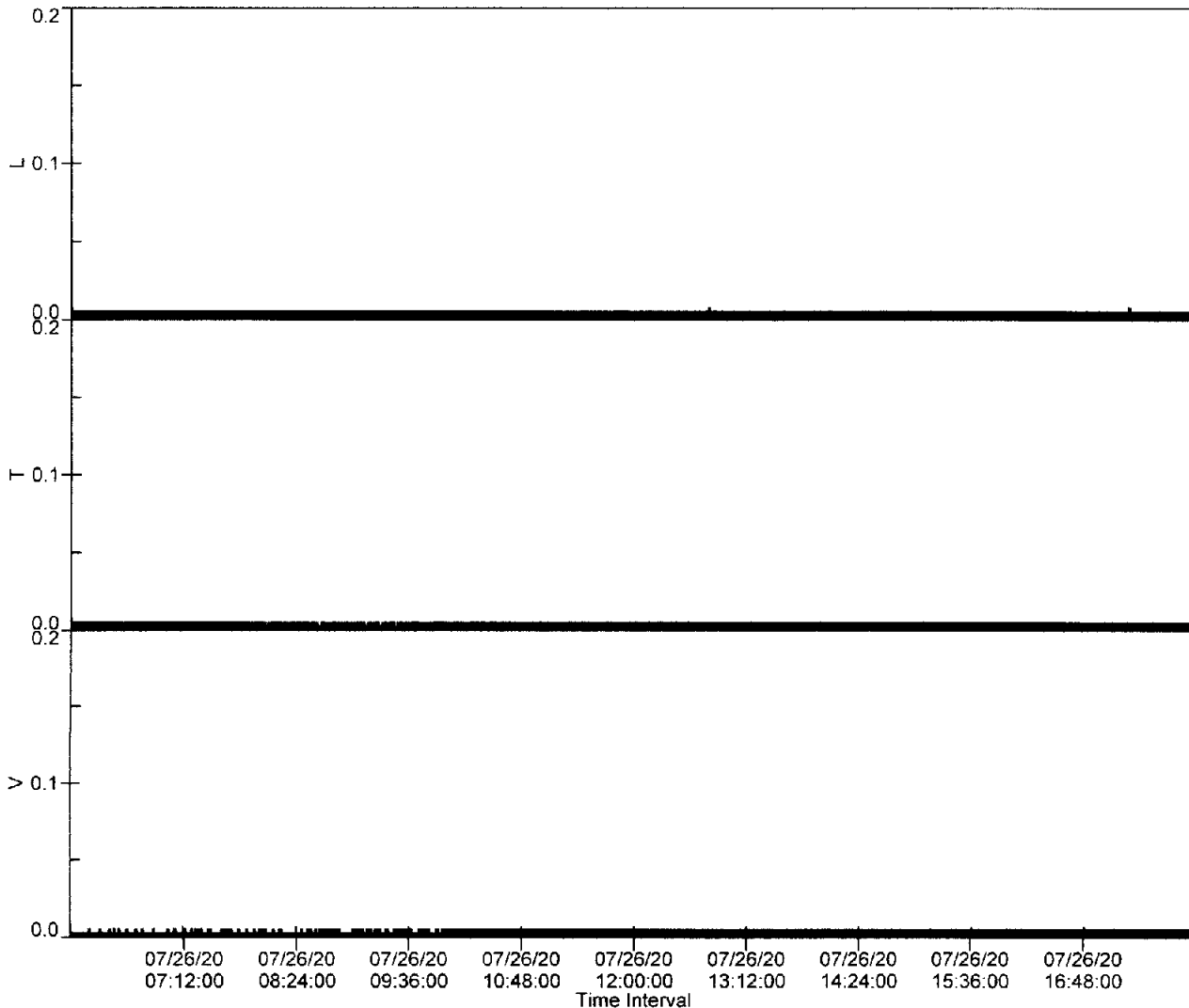
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 7

Record Max PPV: 0.008 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/27/2020 **Time:** 06:01:00
Event: 8
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.128	0.108	0.070
FREQ (Hz)	21.7	20.8	29.4
Peak Air Pressure:	78 db		

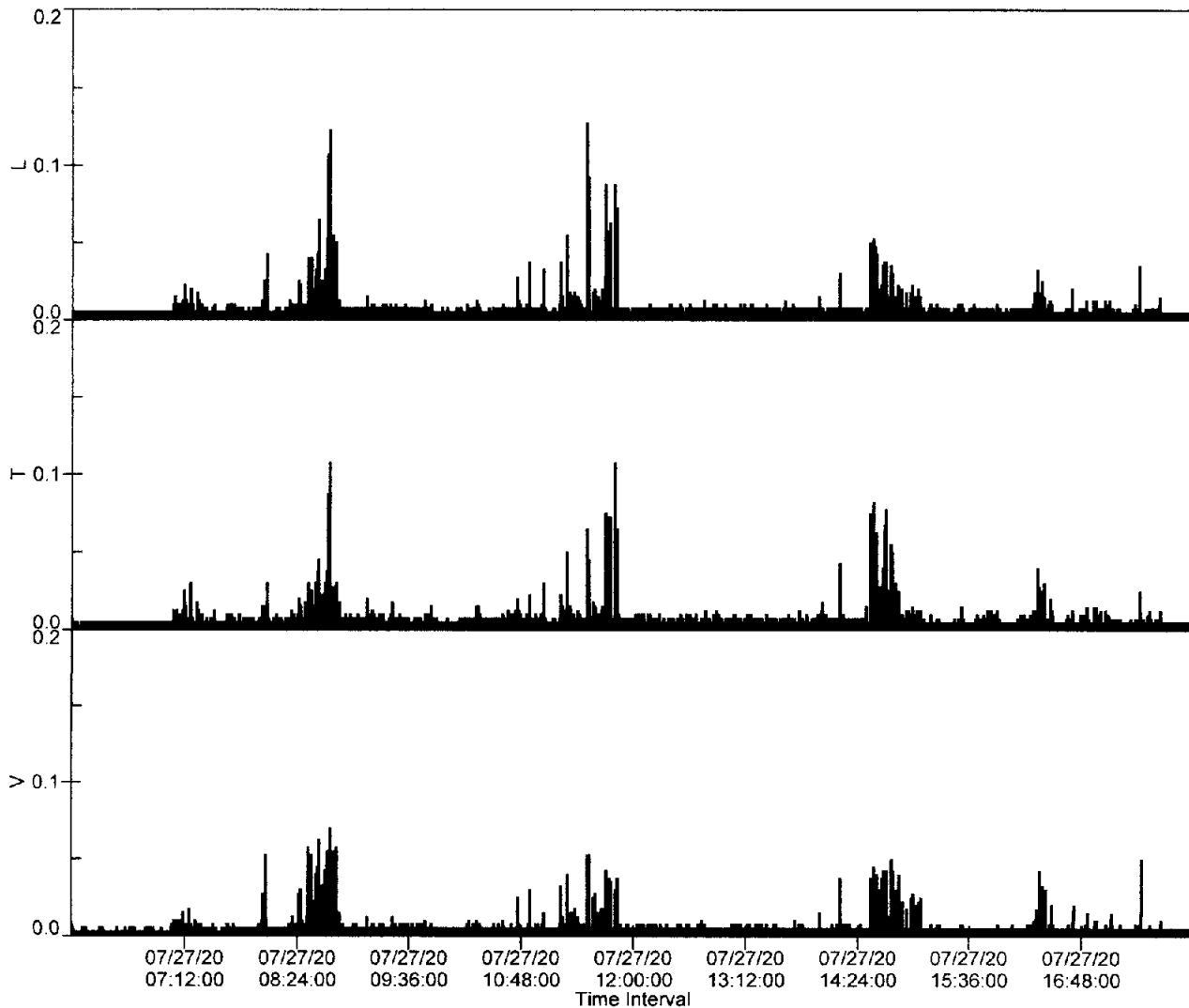
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 8

Record Max PPV: 0.128 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/28/2020 **Time:** 06:01:00
Event: 9
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNRP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.180	0.158	0.083
FREQ (Hz)	26.3	17.2	9.1
Peak Air Pressure:	78 db		

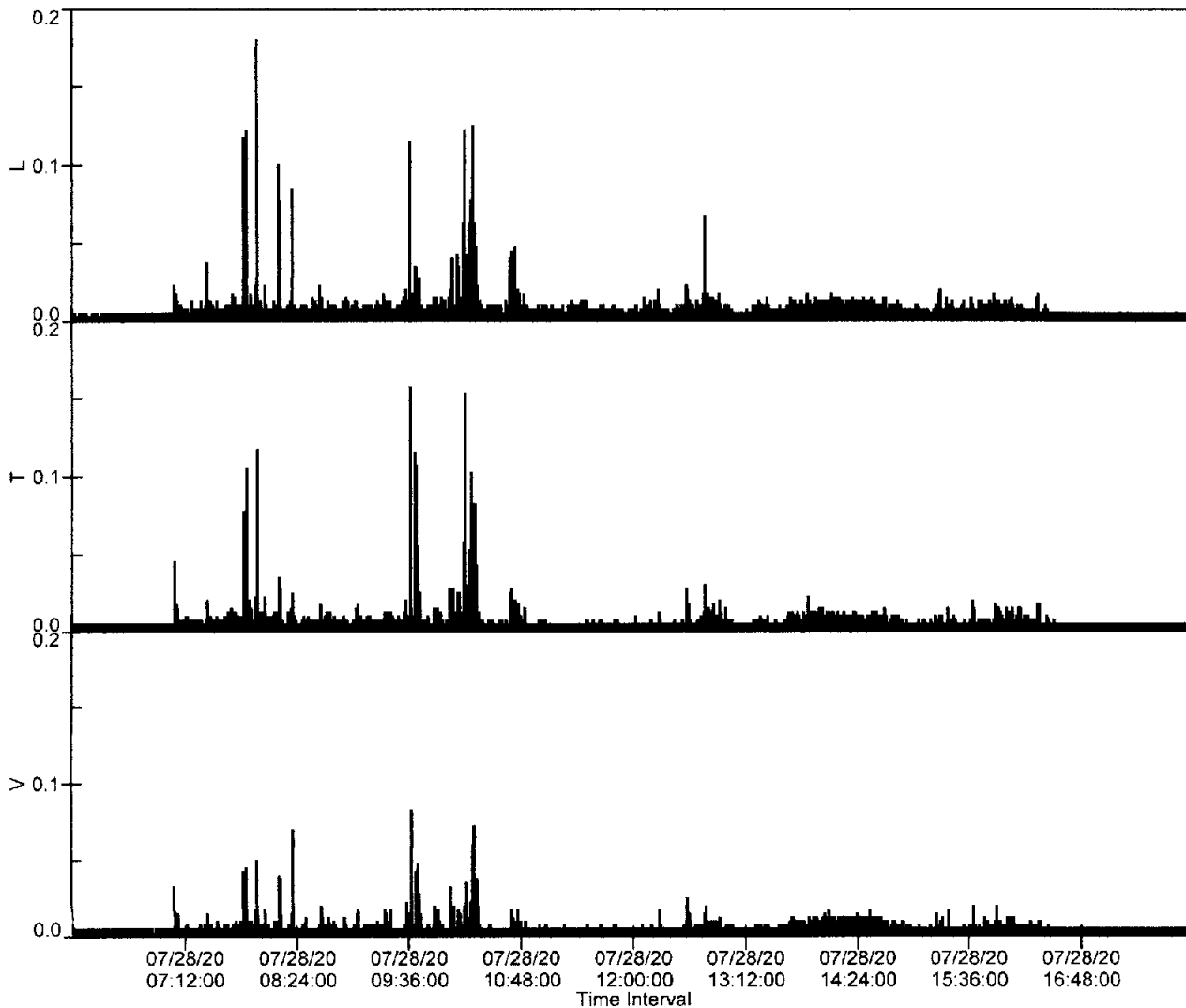
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 9

Record Max PPV: 0.180 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/29/2020 **Time:** 06:01:00
Event: 10
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.213	0.103	0.248
FREQ (Hz)	22.7	21.7	22.7
Peak Air Pressure:	78 db		

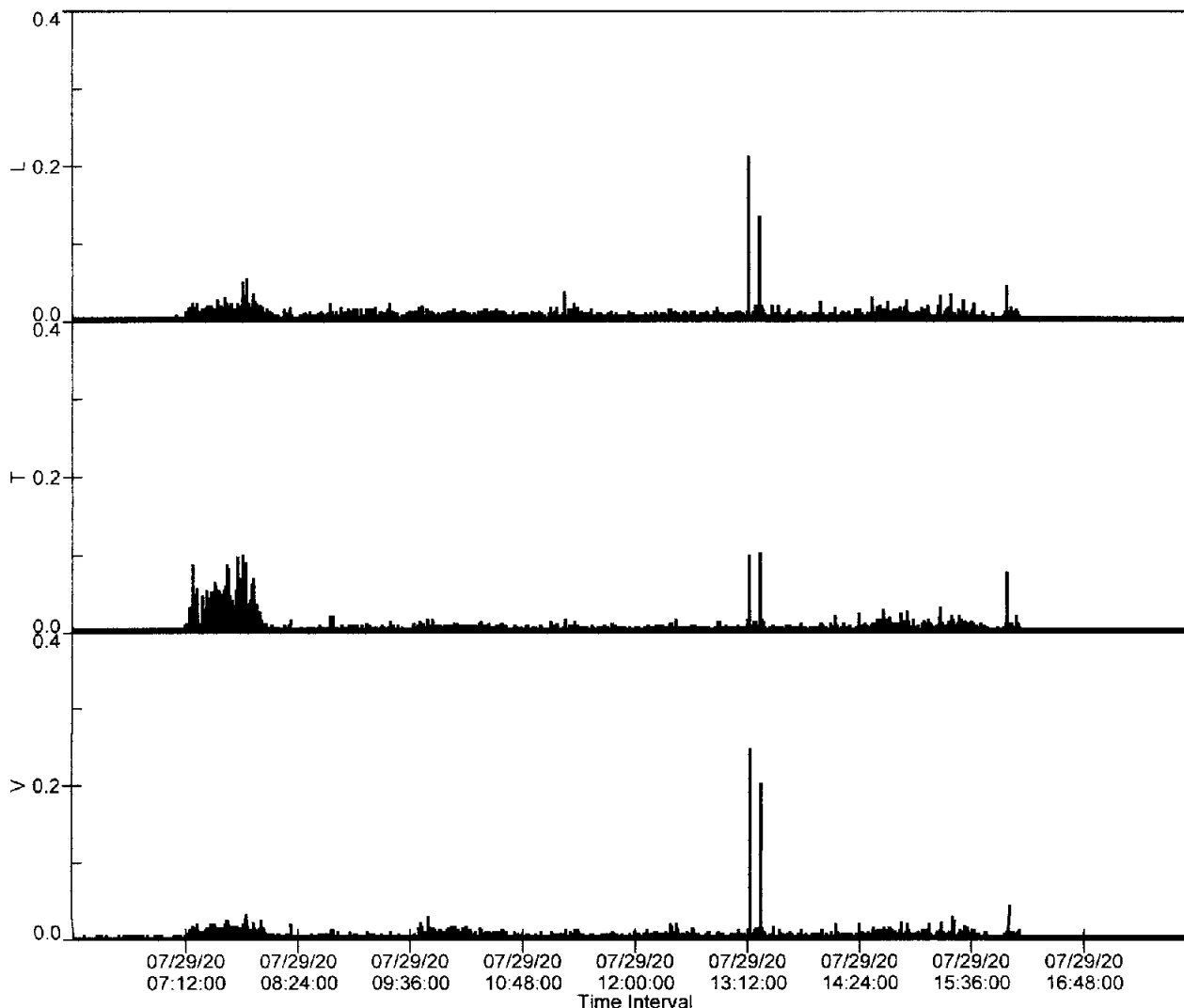
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 10

Record Max PPV: 0.248 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/30/2020 **Time:** 06:01:00
Event: 11
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

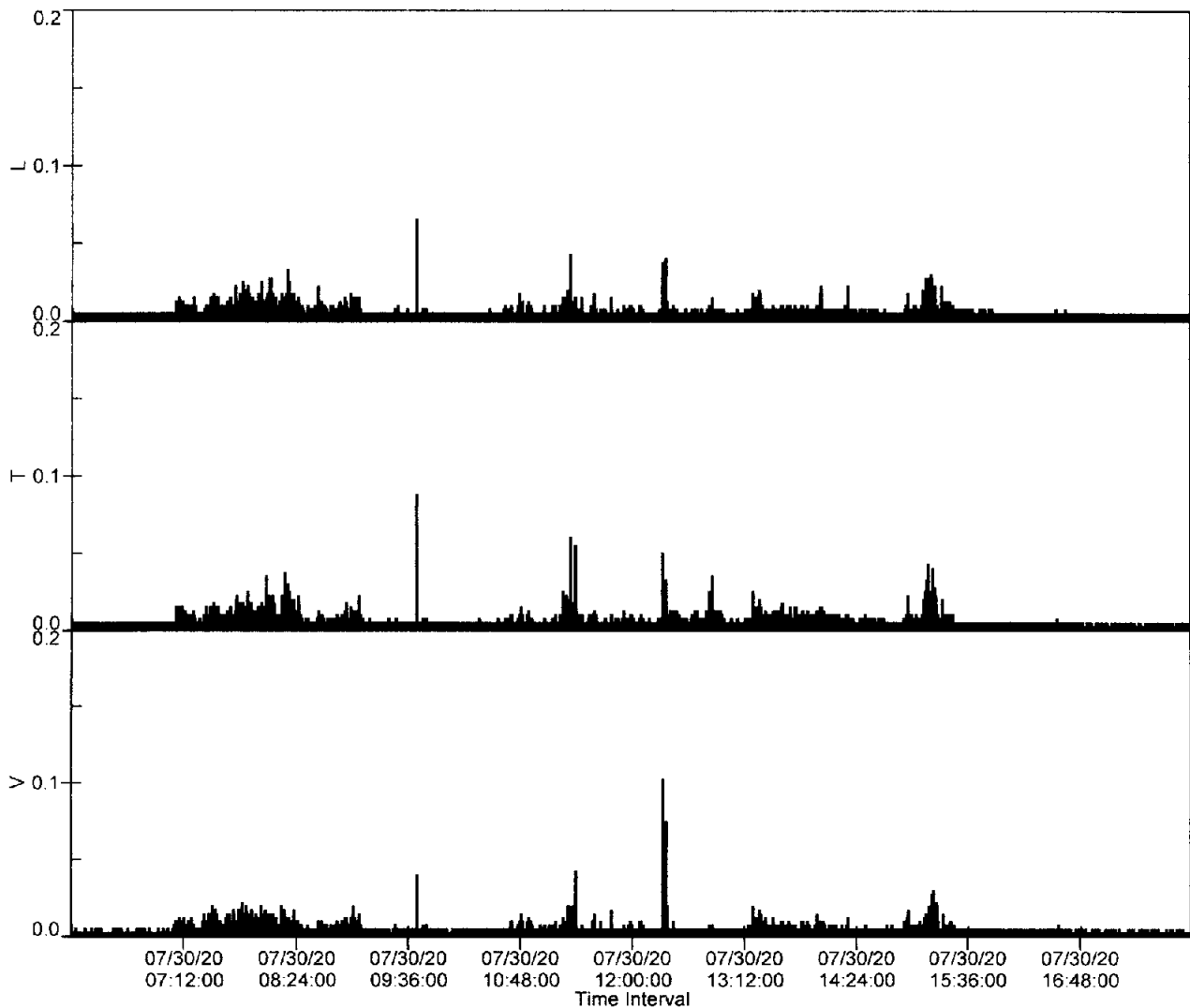
	L	T	V
PPV (in/s)	0.065	0.088	0.103
FREQ (Hz)	33.3	29.4	71.4
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 11

Record Max PPV: 0.103 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 07/31/2020 **Time:** 06:01:00
Event: 12
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.090	0.123	0.045
FREQ (Hz)	29.4	20.8	27.8
Peak Air Pressure:	78 db		

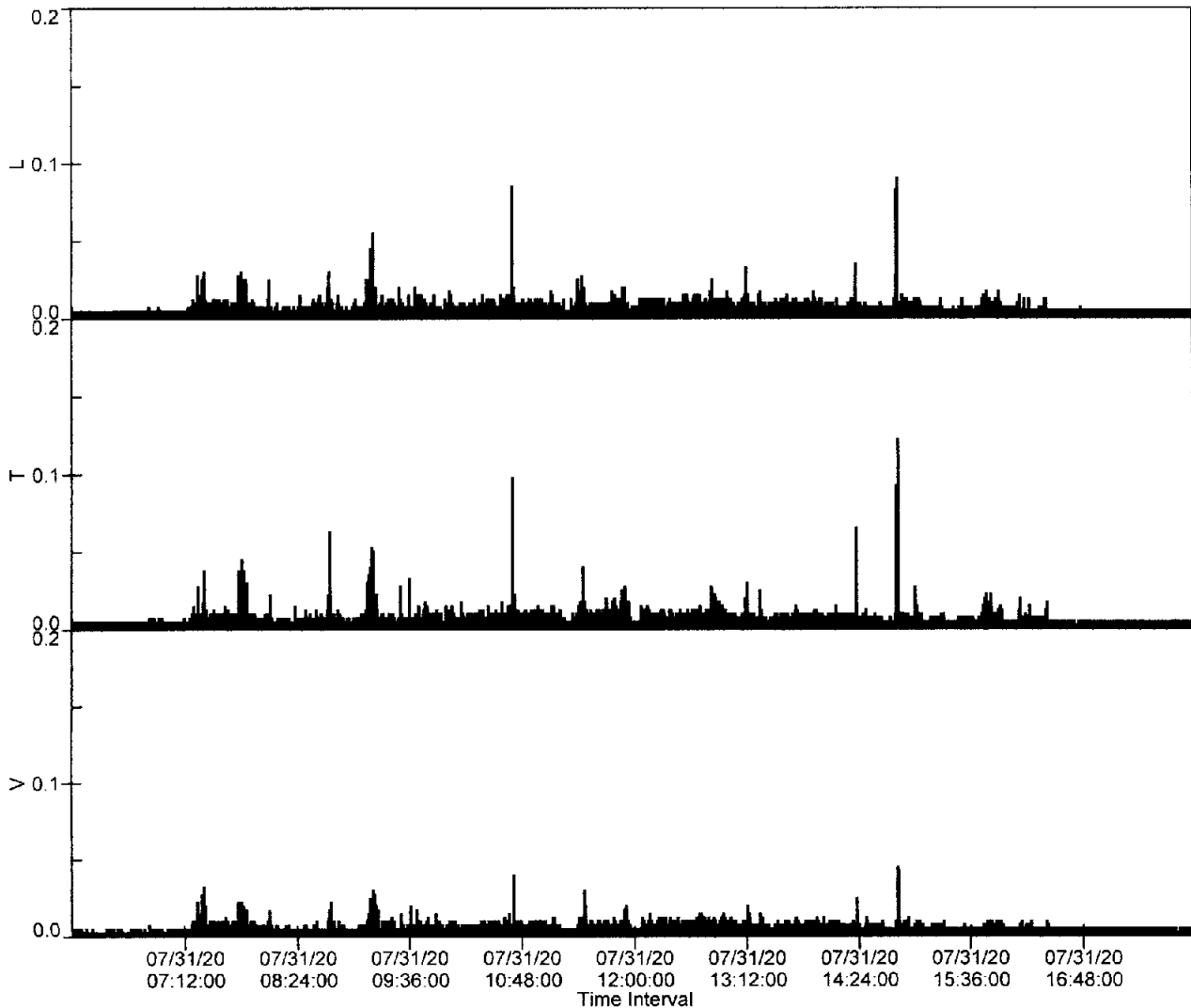
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 12

Record Max PPV: 0.123 in/s Record Max DB: 78 db



SN: 3802 v3.22
Date: 08/01/2020 **Time:** 06:01:00
Event: 13
Client: BERGER CONST
Operation: EXCAVATION
Location: #5 WSNP
Distance: 25.
Operator: CTI INC
Comment: SE CORNER UNIT

**Continuous Monitor Recording
Summary Data**

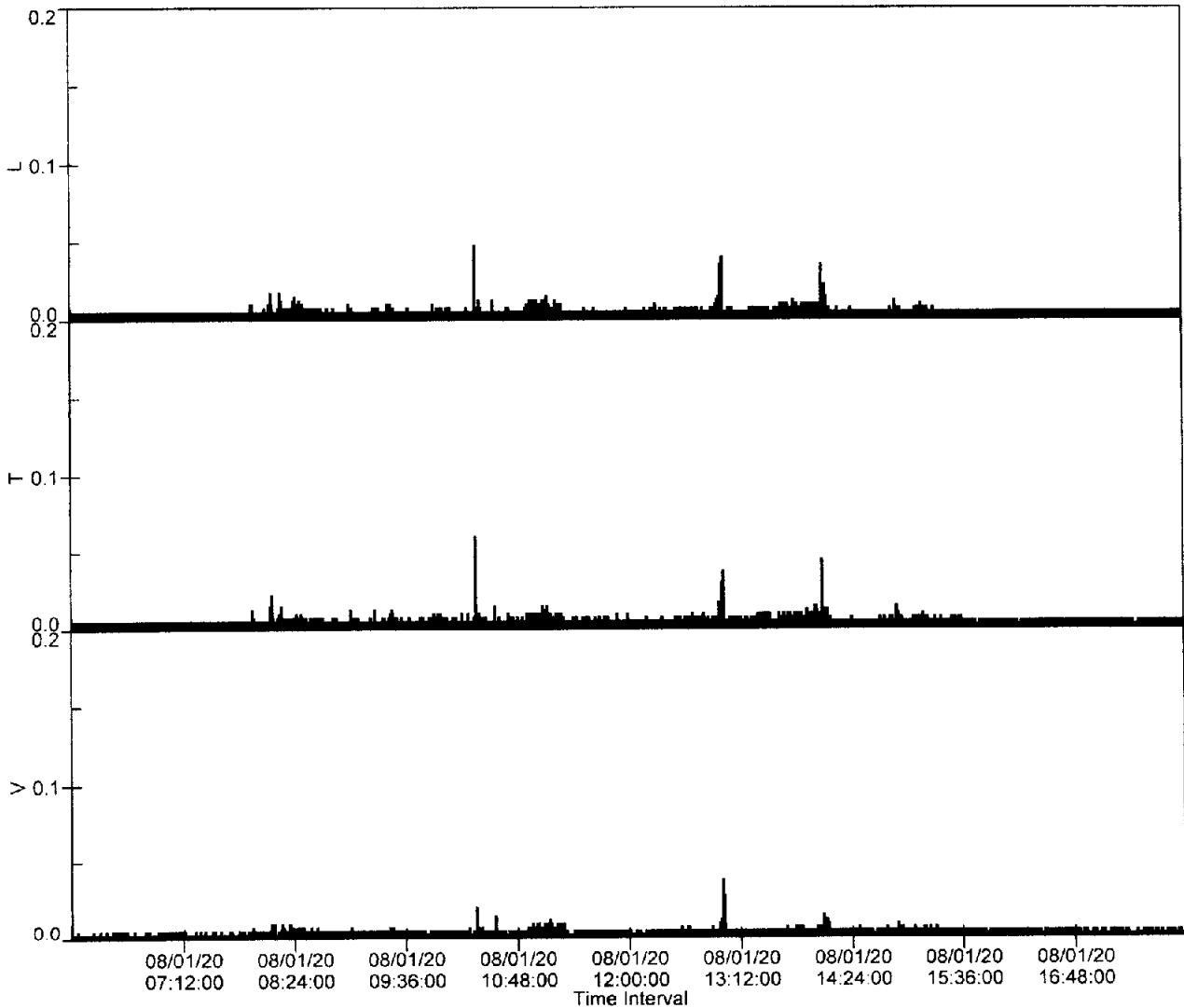
	L	T	V
PPV (in/s)	0.048	0.060	0.038
FREQ (Hz)	20.8	20.8	21.7
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3802 Event: 13

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



SN: 3775 v3.22
Date: 07/20/2020 **Time:** 11:30:00
Event: 81
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.040	0.048	0.025
FREQ (Hz)	25.0	16.1	17.2
Peak Air Pressure:	79 db		

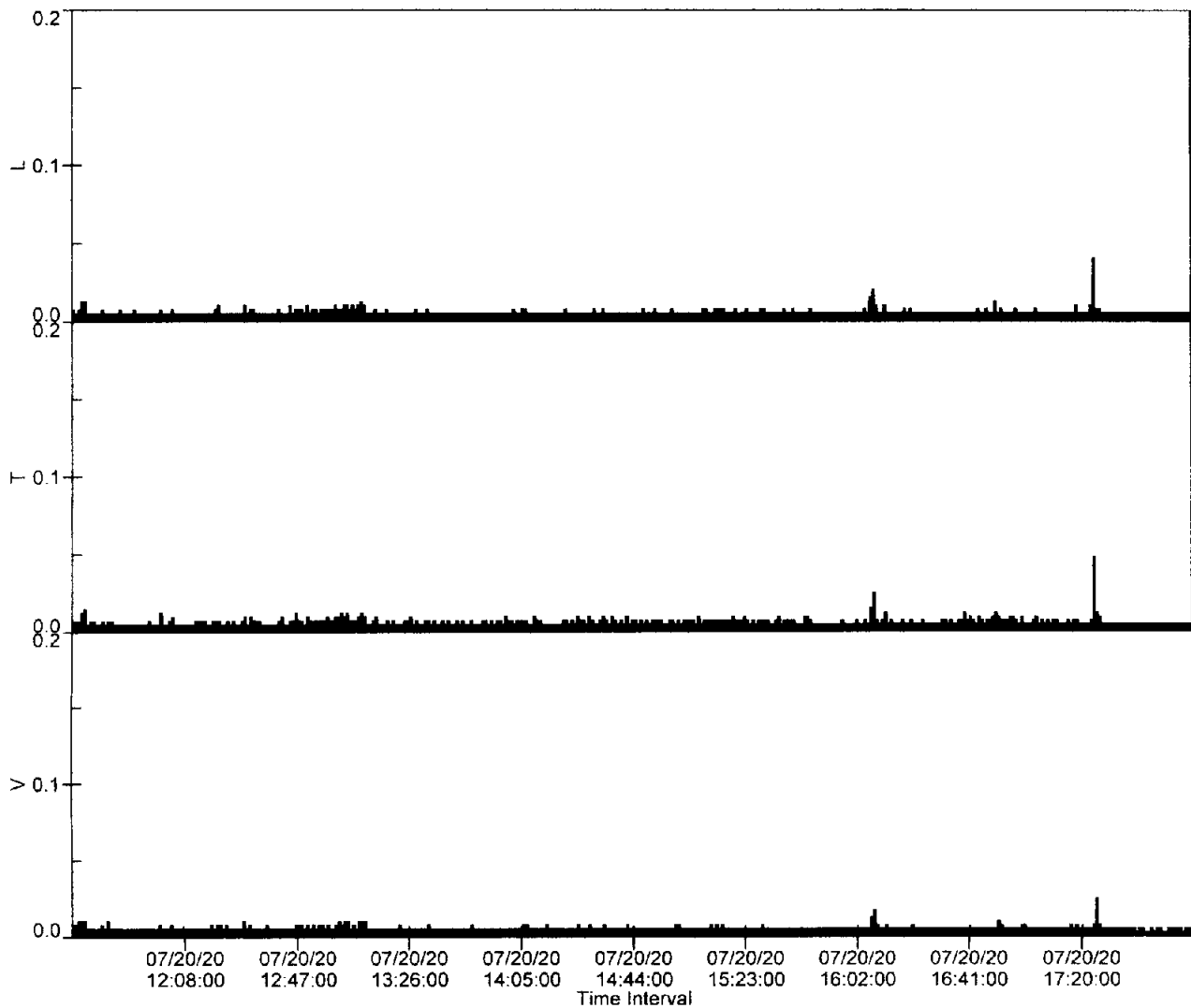
Recording Time: 389 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 81

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



SN: 3775 v3.22
Date: 07/21/2020 **Time:** 06:01:00
Event: 82
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.053	0.050	0.043
FREQ (Hz)	25.0	20.8	17.9
Peak Air Pressure:	78 db		

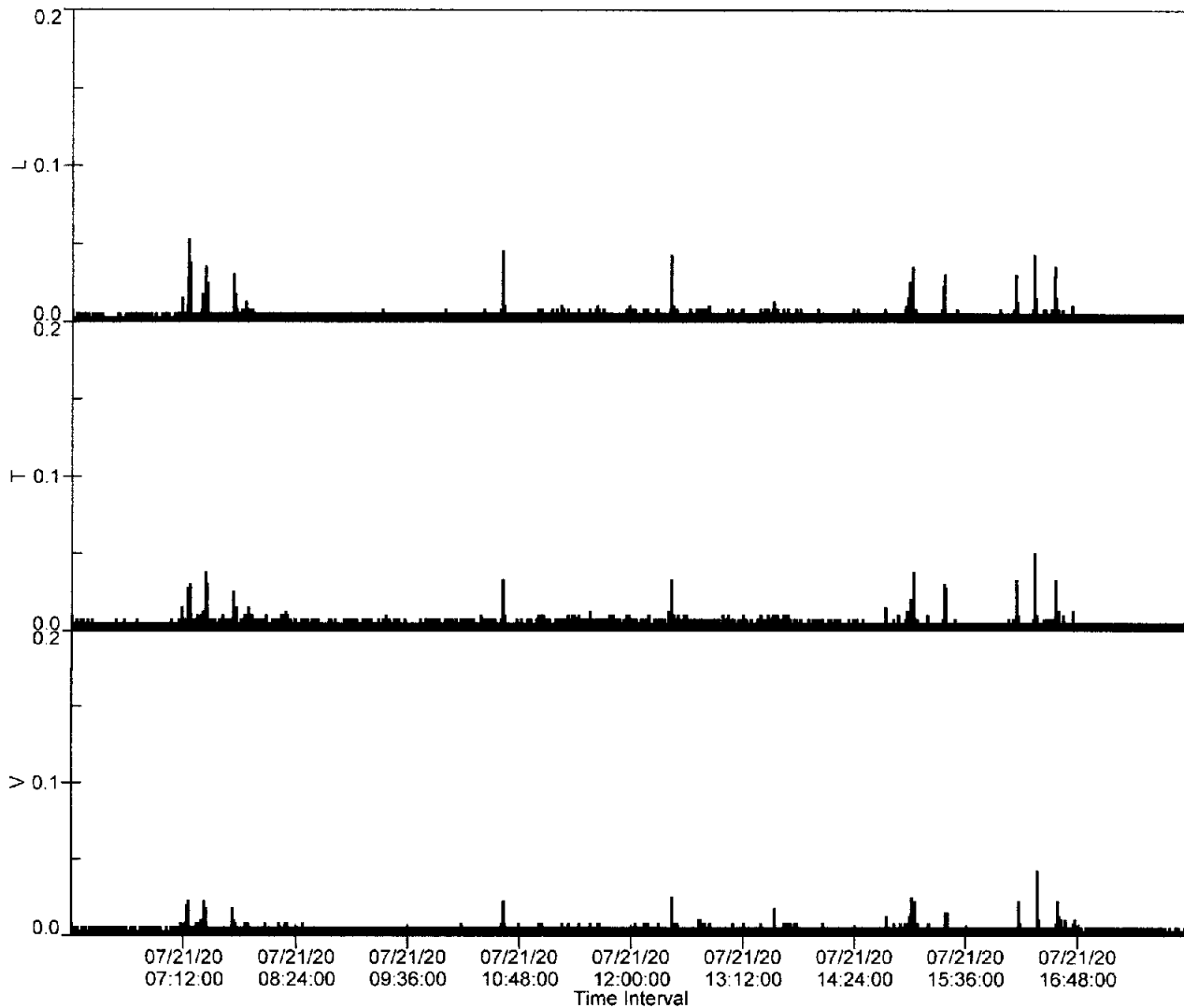
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 82

Record Max PPV: 0.053 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/22/2020 Time: 06:01:00
Event: 83
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.053	0.038	0.048
FREQ (Hz)	26.3	20.0	21.7
Peak Air Pressure:	81 db		

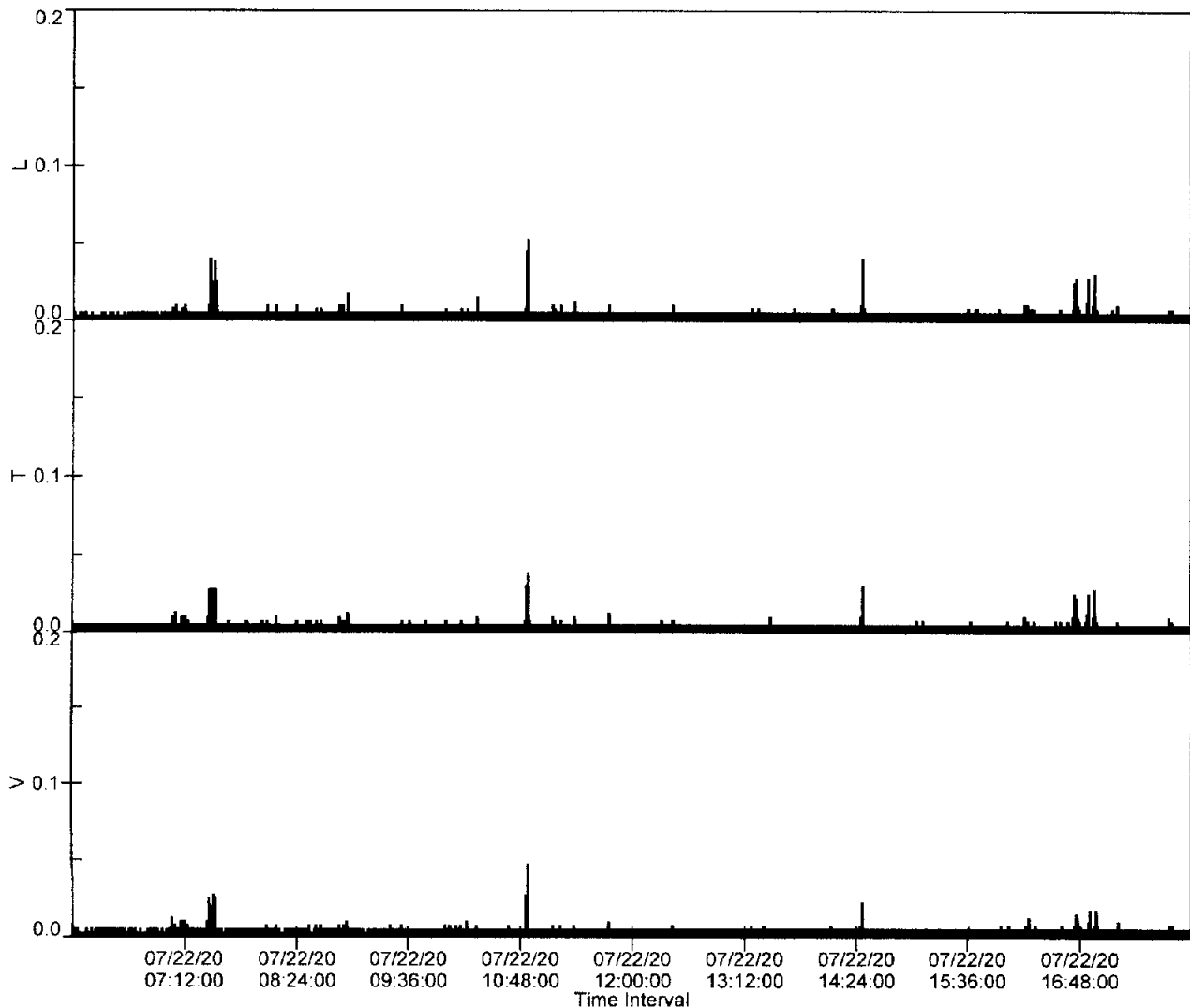
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 83

Record Max PPV: 0.053 in/s Record Max DB: 81 db



SN: 3775 v3.22
Date: 07/23/2020 Time: 06:01:00
Event: 84
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.045	0.055	0.033
FREQ (Hz)	31.3	18.5	17.2
Peak Air Pressure:	78 db		

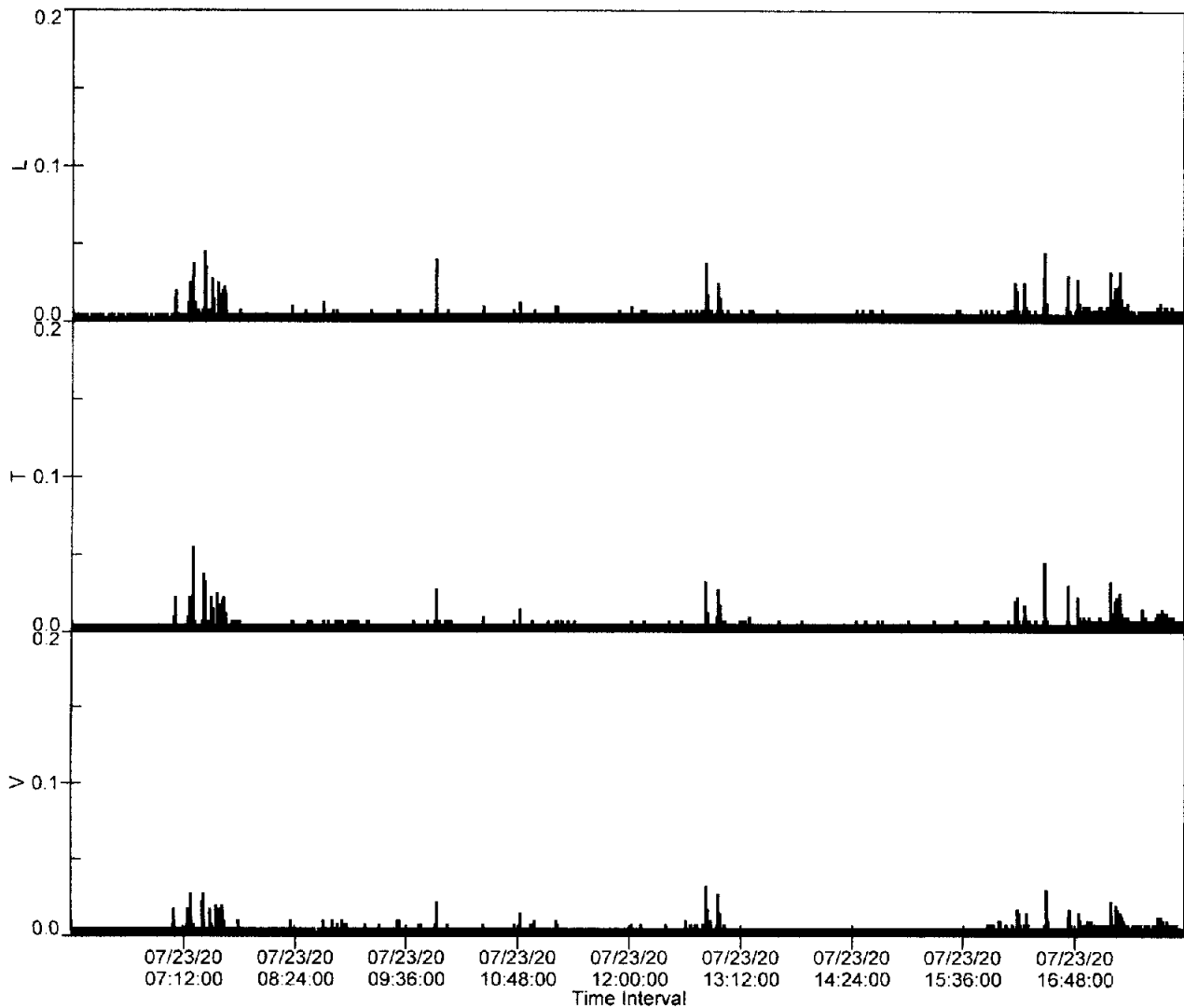
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 84

Record Max PPV: 0.055 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/24/2020 **Time:** 06:01:00
Event: 85
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.088	0.063	0.038
FREQ (Hz)	31.3	83.3	45.5
Peak Air Pressure:	78 db		

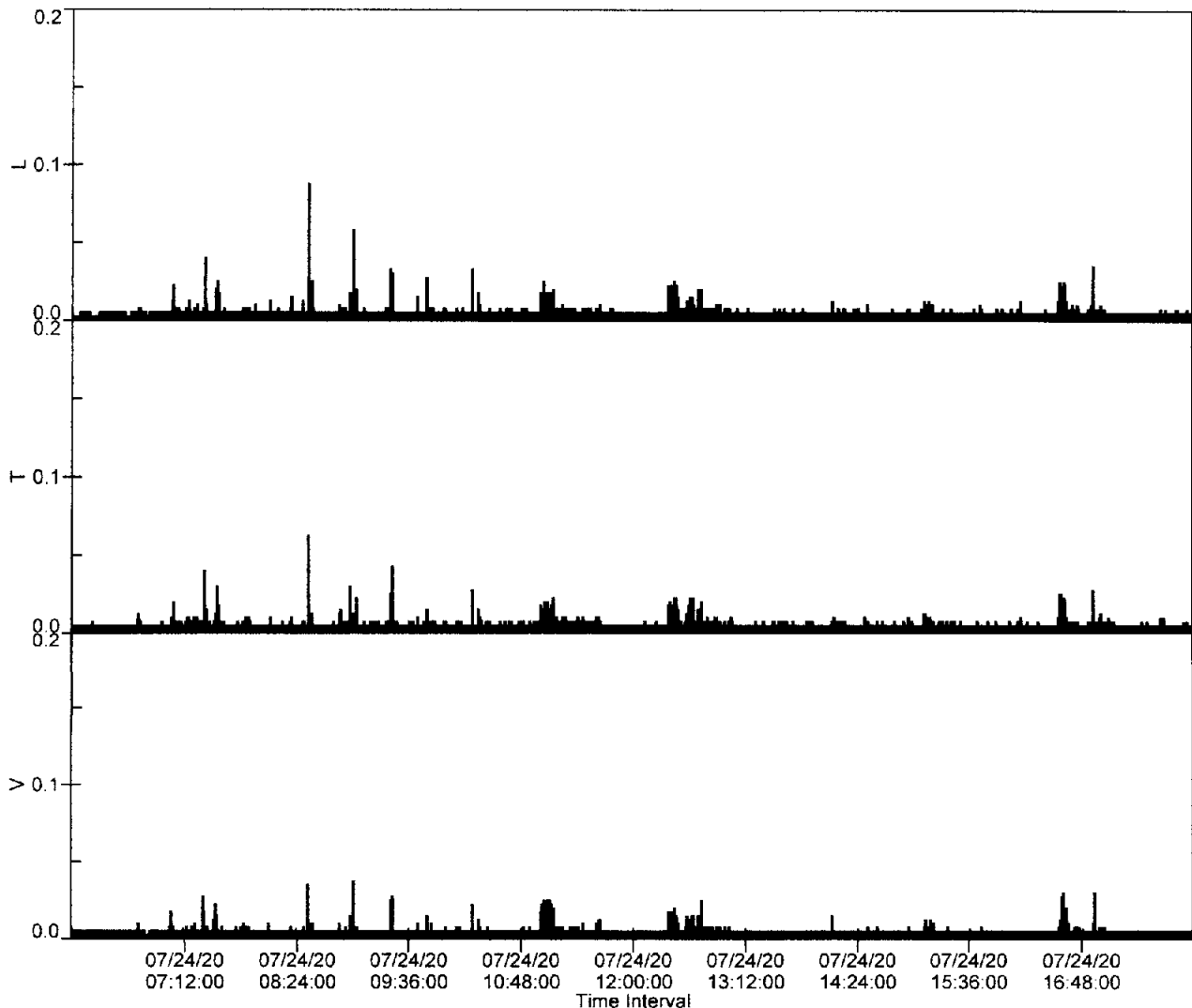
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 85

Record Max PPV: 0.088 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/25/2020 **Time:** 06:01:00
Event: 86
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.033	0.035	0.020
FREQ (Hz)	16.7	16.1	16.1
Peak Air Pressure:	78 db		

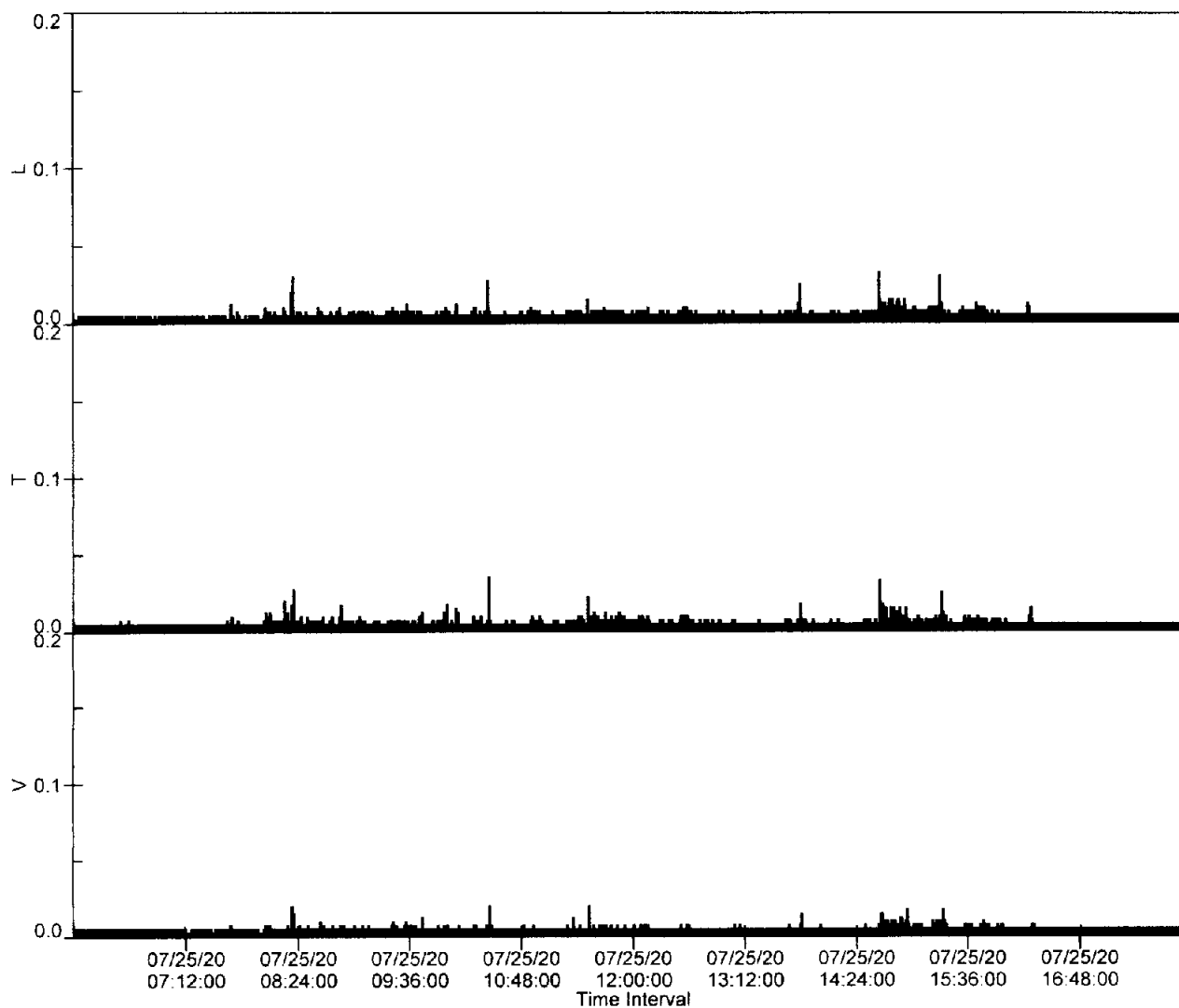
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 86

Record Max PPV: 0.035 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/26/2020 **Time:** 06:01:00
Event: 87
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.5	2.1	.5
Peak Air Pressure:	78 db		

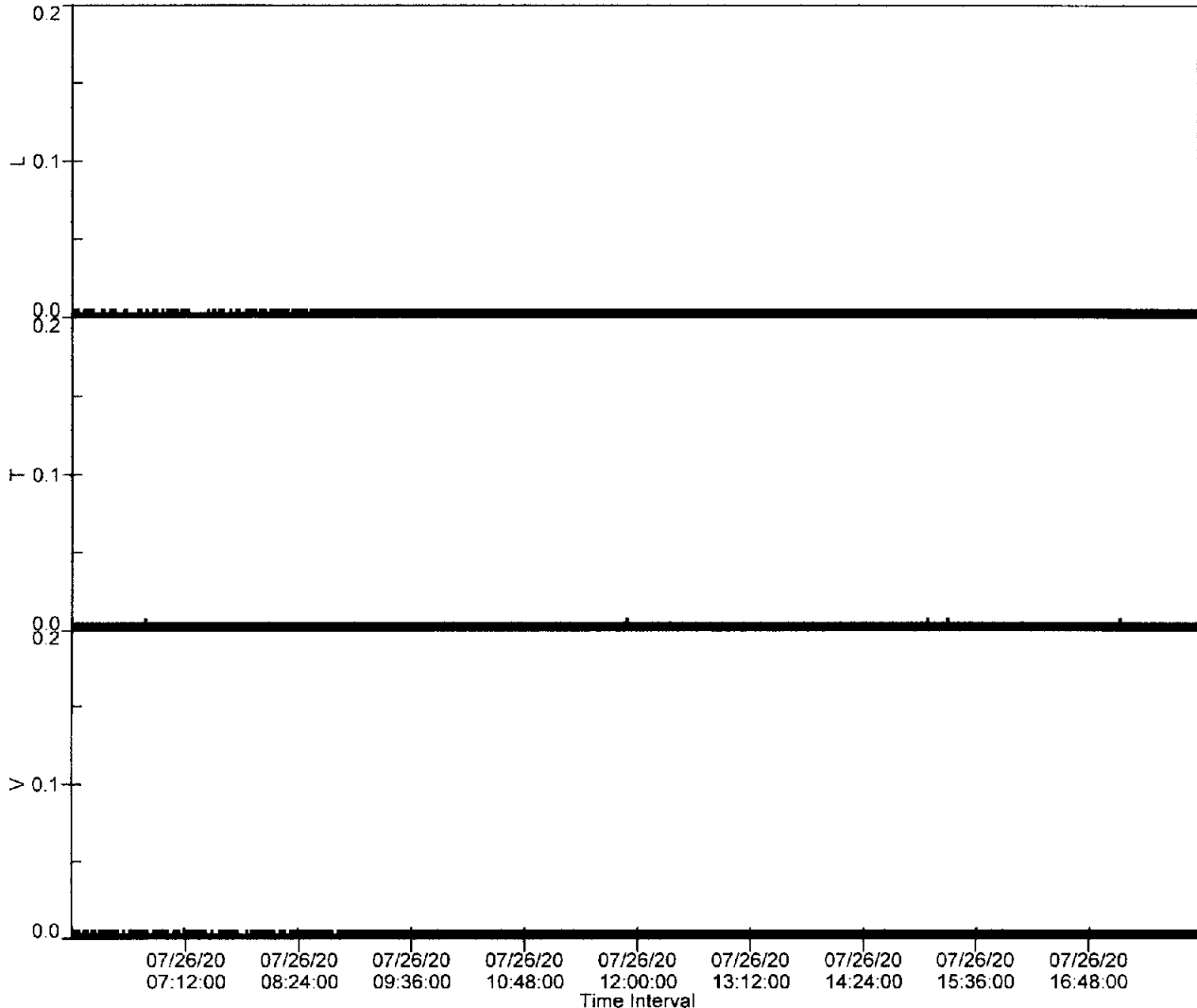
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 87

Record Max PPV: 0.008 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/27/2020 **Time:** 06:01:00
Event: 88
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

**Continuous Monitor Recording
Summary Data**

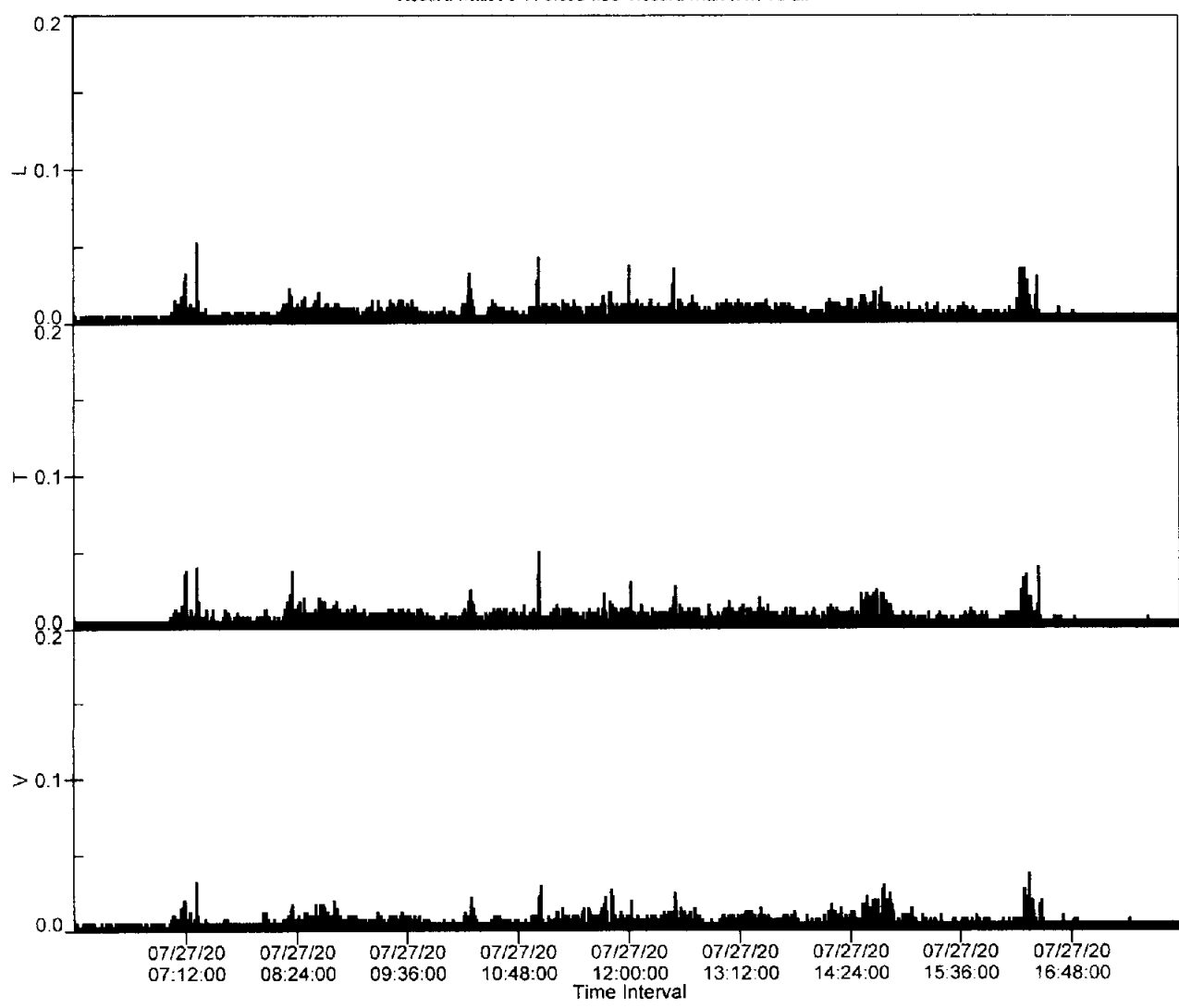
	L	T	V
PPV (in/s)	0.053	0.050	0.038
FREQ (Hz)	23.8	19.2	16.1
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 88

Record Max PPV: 0.053 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/28/2020 **Time:** 06:01:00
Event: 89
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNSP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

**Continuous Monitor Recording
Summary Data**

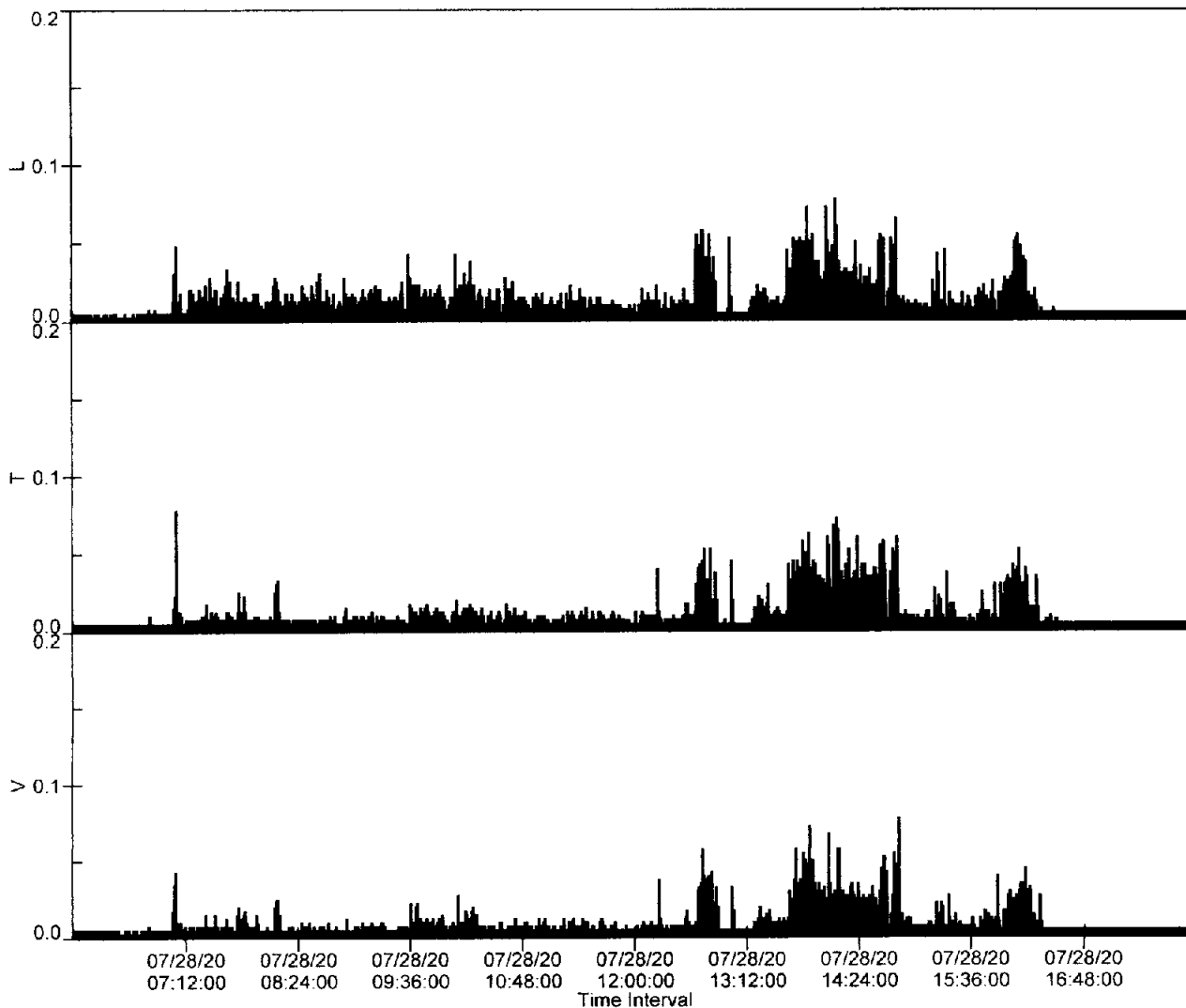
	L	T	V
PPV (in/s)	0.078	0.078	0.078
FREQ (Hz)	26.3	13.5	29.4
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 89

Record Max PPV: 0.078 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/29/2020 **Time:** 06:01:00
Event: 90
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CTI INC
Comment: 2412 MEADOW DRIVE

**Continuous Monitor Recording
Summary Data**

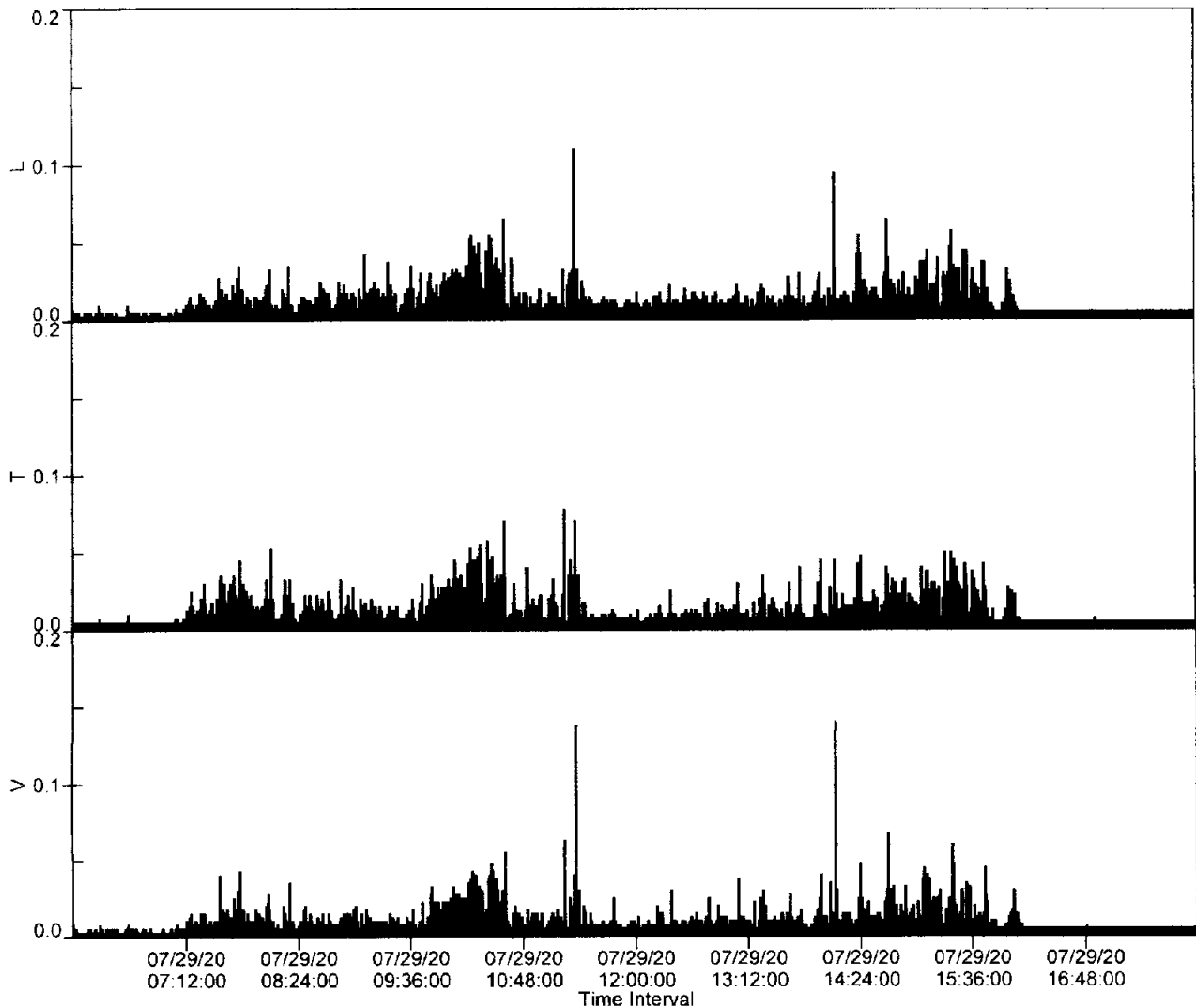
	L	T	V
PPV (in/s)	0.110	0.078	0.140
FREQ (Hz)	12.2	15.2	16.1
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 90

Record Max PPV: 0.140 in/s Record Max DB: 78 db



SN: 3775 v3.22
Date: 07/30/2020 **Time:** 06:01:00
Event: 91
Client: BERGER CONST
Operation: EXCAVATION
Location: #6 WSNP
Distance: 25.
Operator: CFI INC
Comment: 2412 MEADOW DRIVE

**Continuous Monitor Recording
Summary Data**

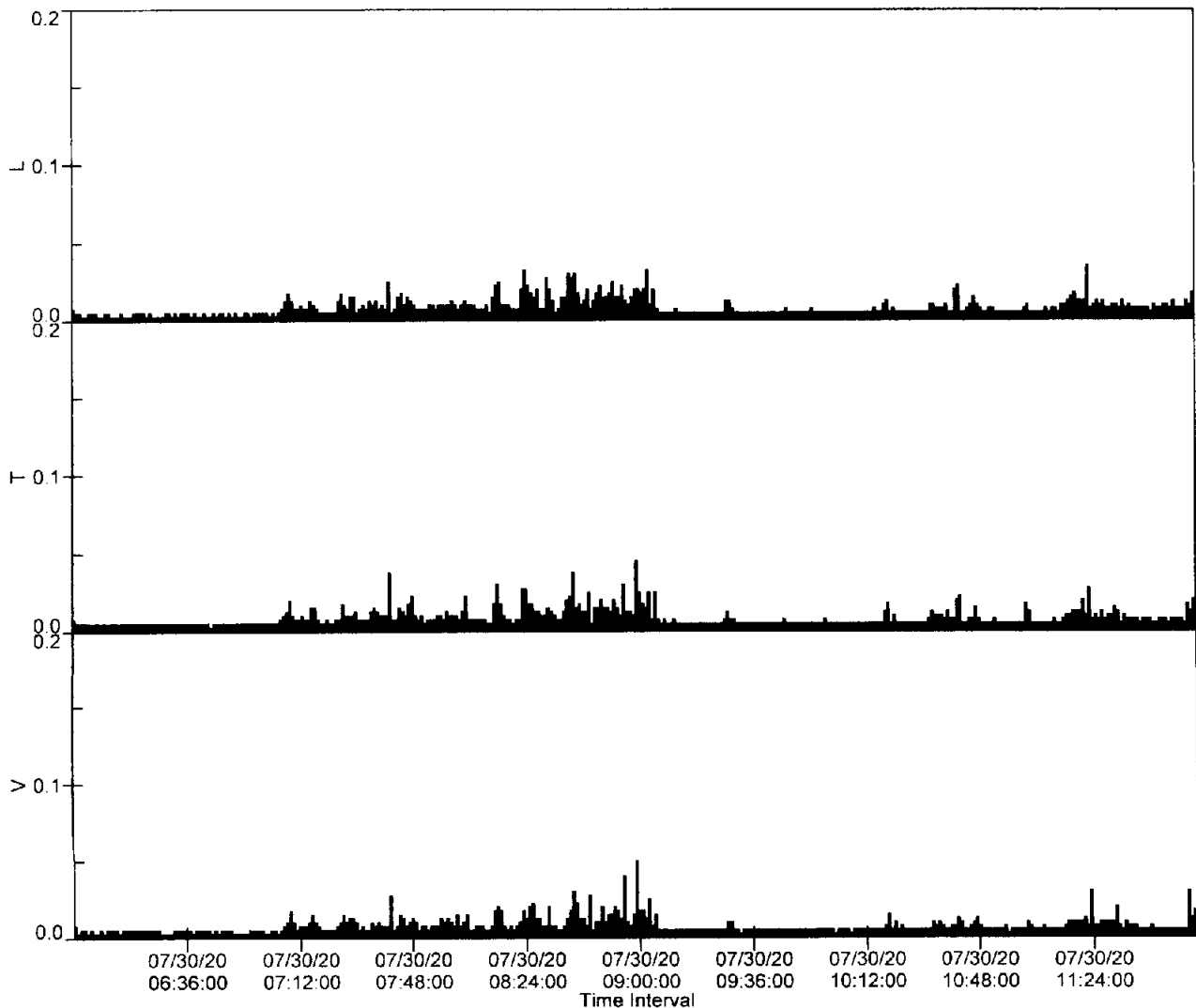
	L	T	V
PPV (in/s)	0.035	0.045	0.050
FREQ (Hz)	14.7	19.2	18.5
Peak Air Pressure:	78 db		
Recording Time:	356 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/07/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3775 Event: 91

Record Max PPV: 0.050 in/s Record Max DB: 78 db



SN: 3733 v3.22
Date: 07/20/2020 **Time:** 06:01:00
Event: 79
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNSP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

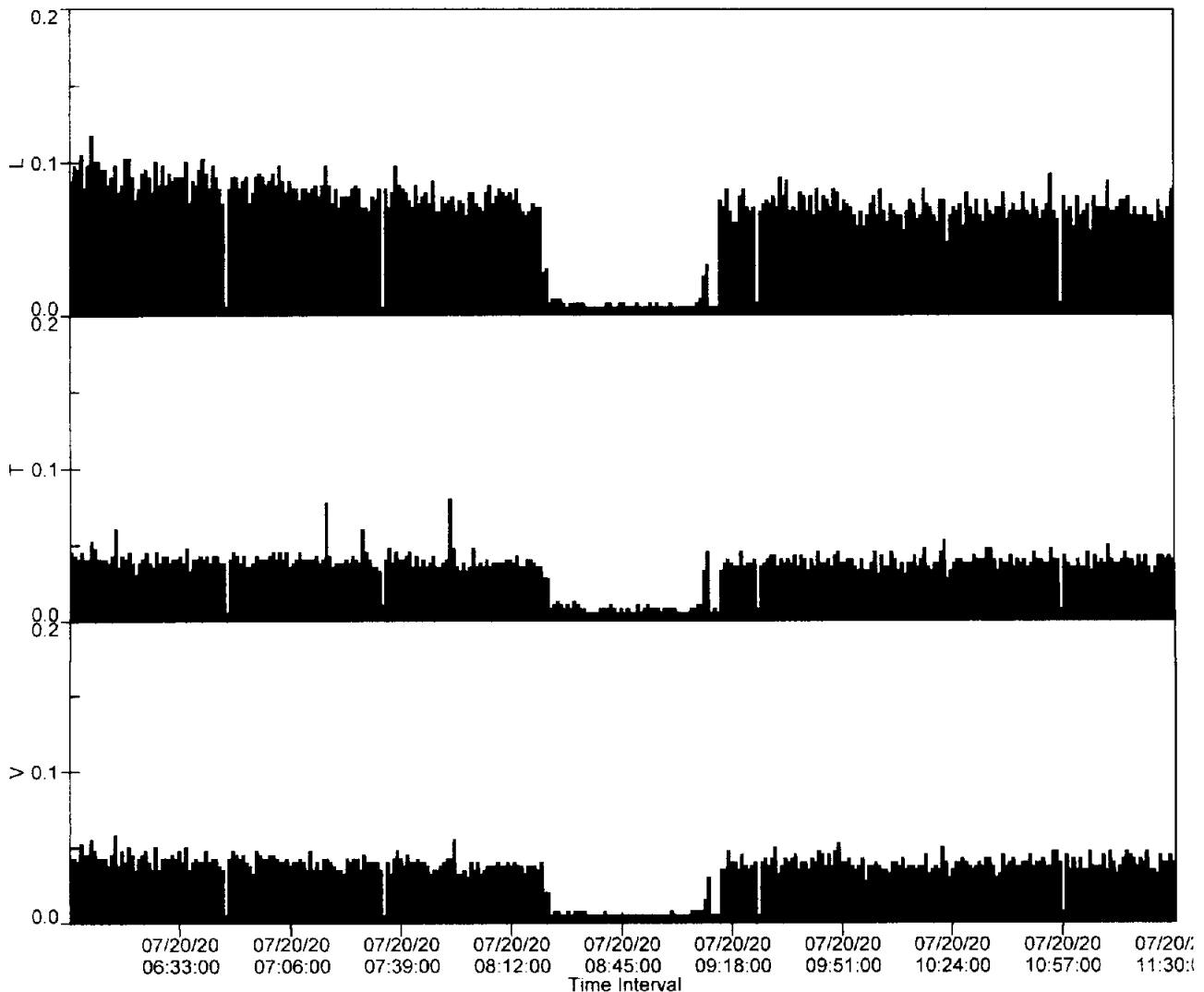
	L	T	V
PPV (in/s)	0.118	0.080	0.058
FREQ (Hz)	250.0	23.8	14.7
Peak Air Pressure:	114 db		
Recording Time:	330 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 79

Record Max PPV: 0.118 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 07/20/2020 **Time:** 11:33:00
Event: 80
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

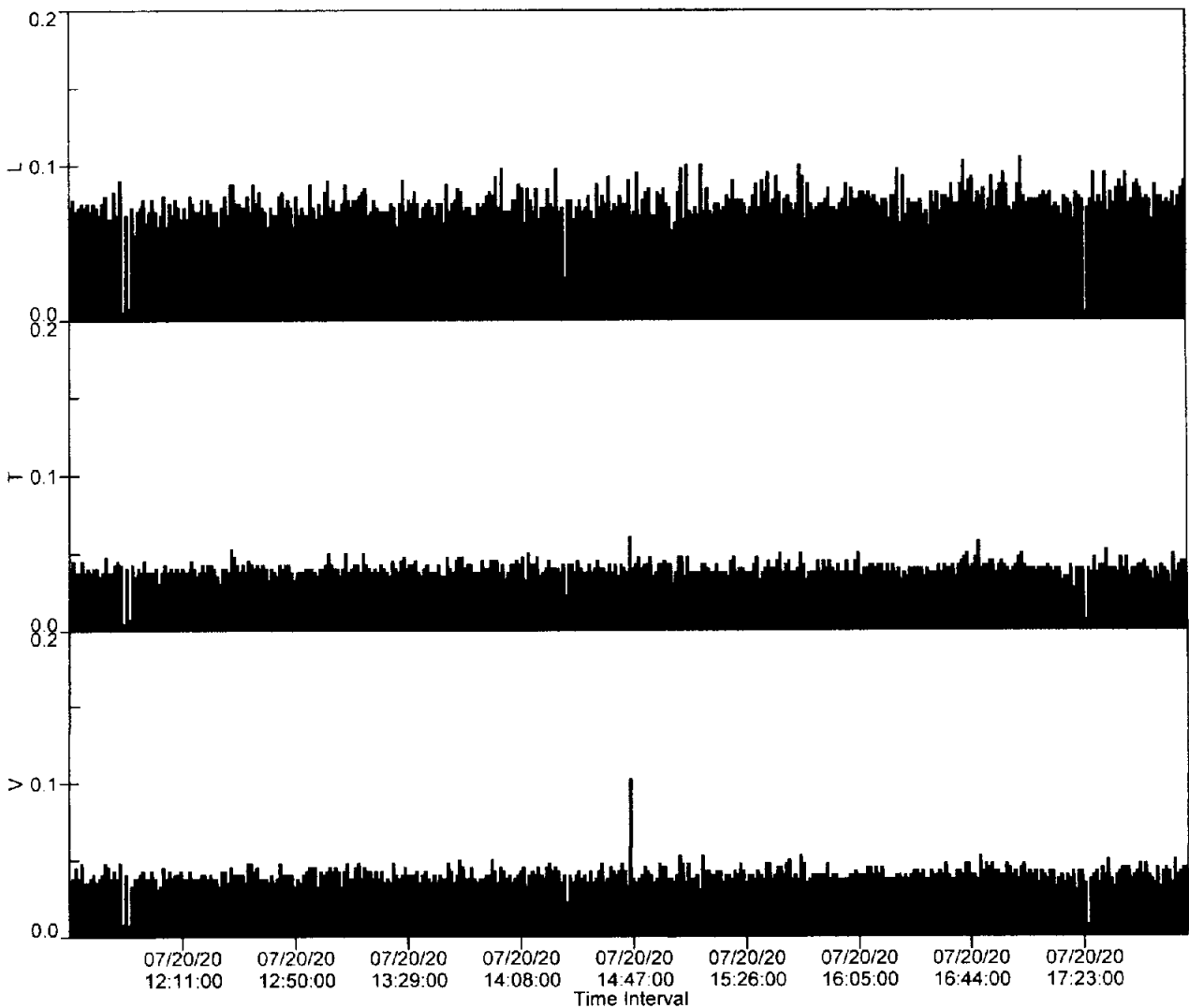
	L	T	V
PPV (in/s)	0.105	0.060	0.103
FREQ (Hz)	125.0	50.0	41.7
Peak Air Pressure:	115 db		
Recording Time:	386 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 80

Record Max PPV: 0.105 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 07/21/2020 **Time:** 06:01:00
Event: 81
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

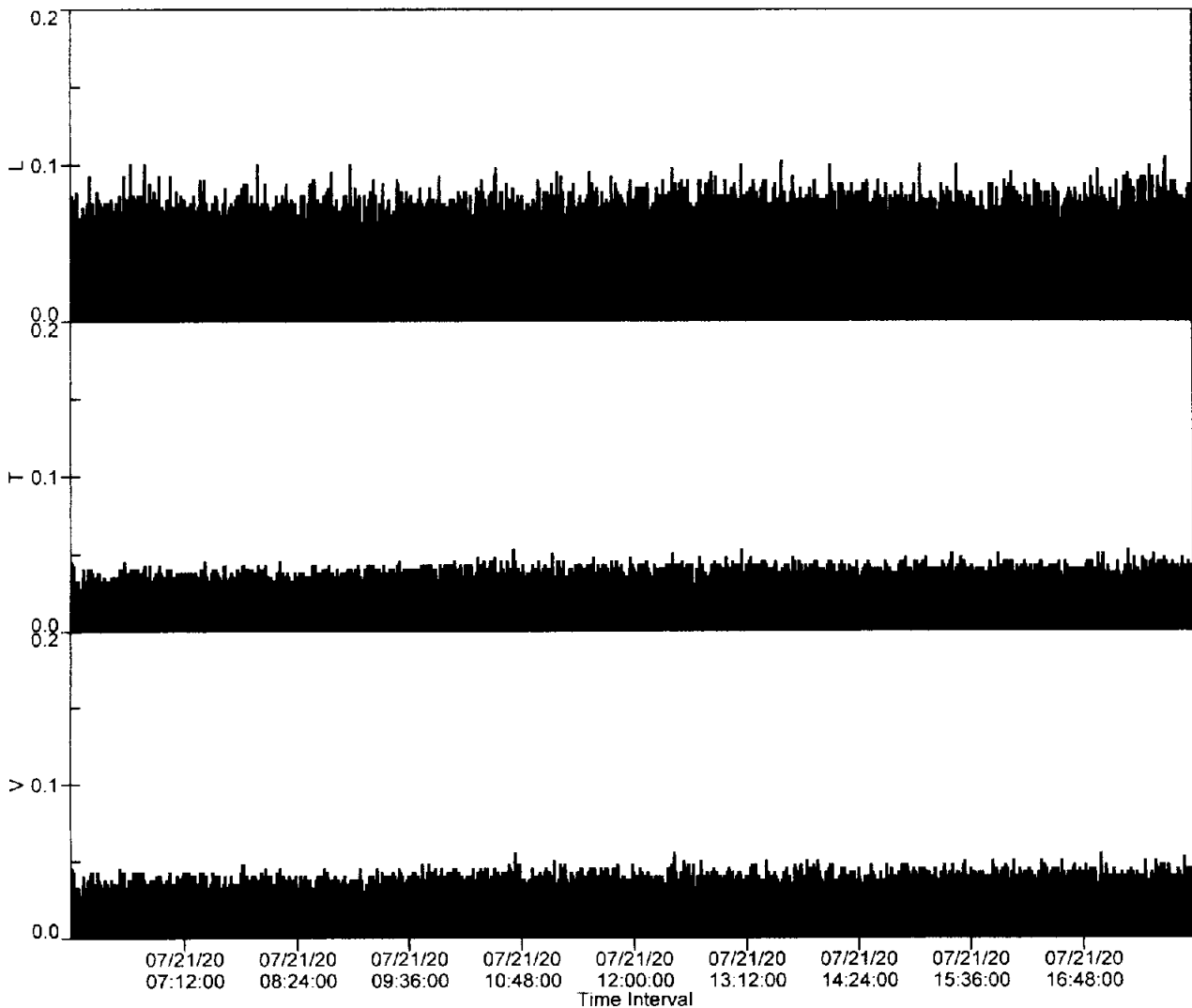
	L	T	V
PPV (in/s)	0.105	0.053	0.055
FREQ (Hz)	250.0	250.0	250.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 81

Record Max PPV: 0.105 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 07/22/2020 **Time:** 06:01:00
Event: 82
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNSP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

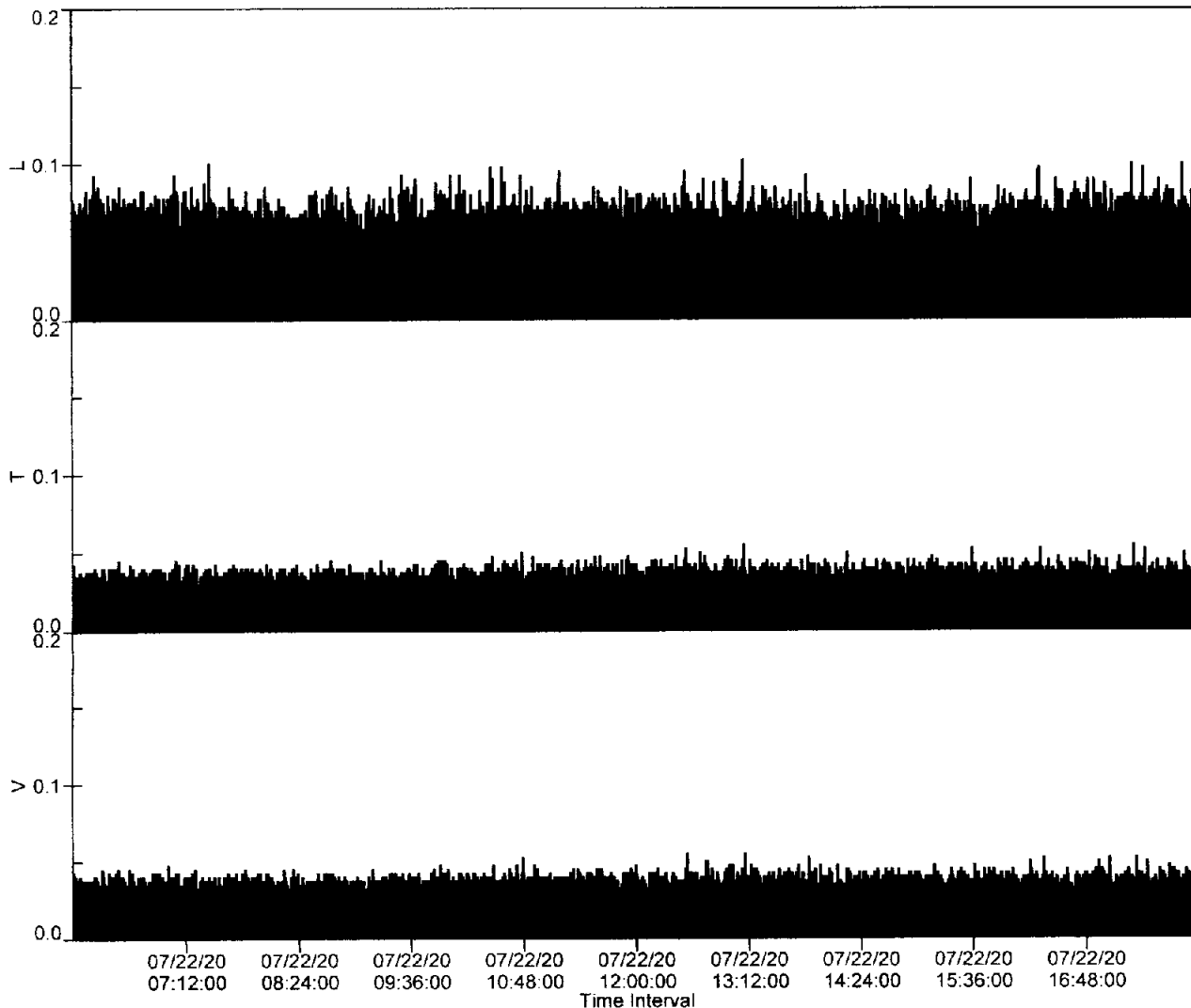
	L	T	V
PPV (in/s)	0.103	0.055	0.055
FREQ (Hz)	250.0	250.0	500.0
Peak Air Pressure:	114 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 82

Record Max PPV: 0.103 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 07/23/2020 **Time:** 06:01:00
Event: 83
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

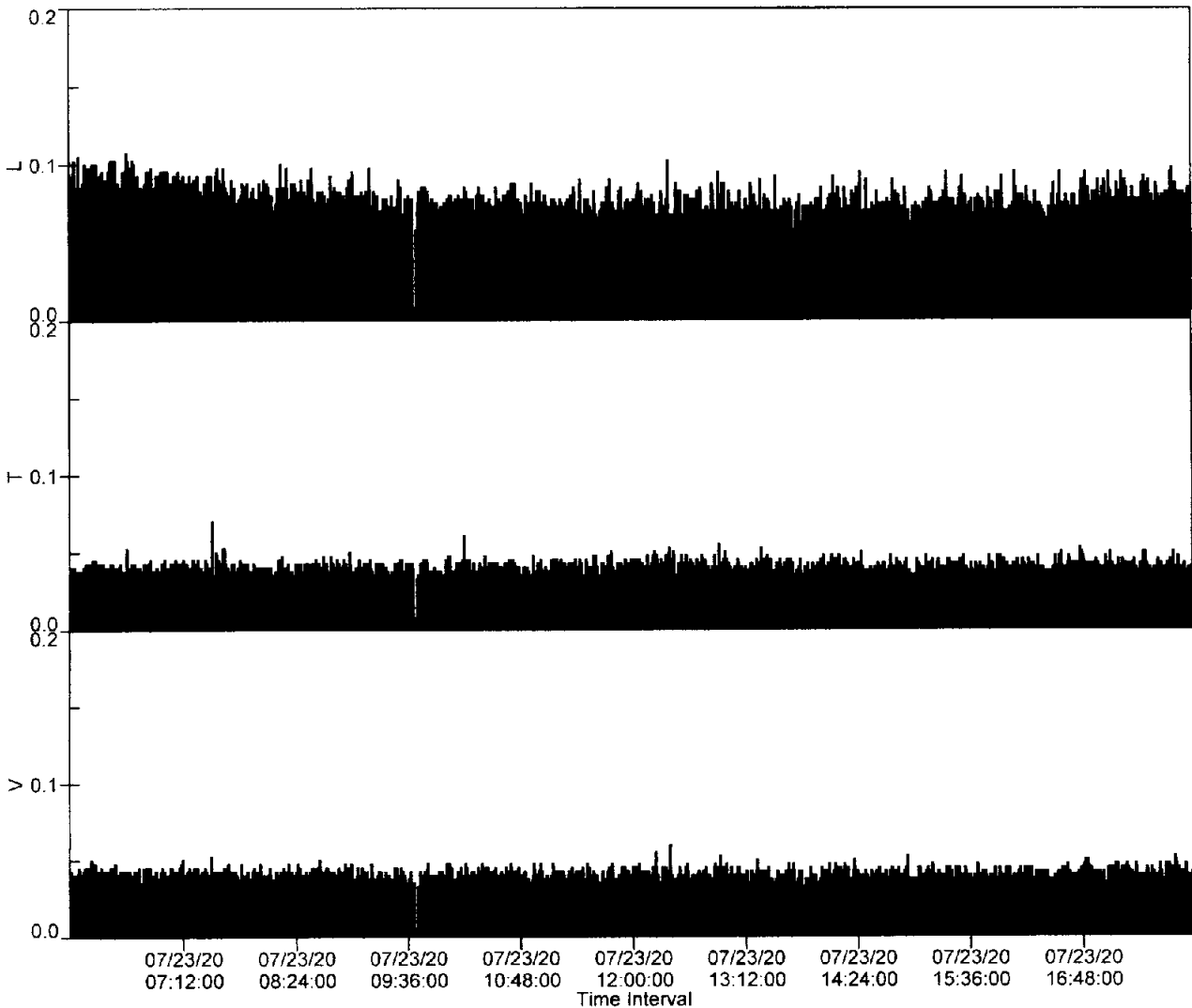
	L	T	V
PPV (in/s)	0.108	0.070	0.060
FREQ (Hz)	38.5	250.0	250.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 83

Record Max PPV: 0.108 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 07/24/2020 **Time:** 06:01:00
Event: 84
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.103	0.065	0.063
FREQ (Hz)	250.0	62.5	250.0
Peak Air Pressure:	114 db		

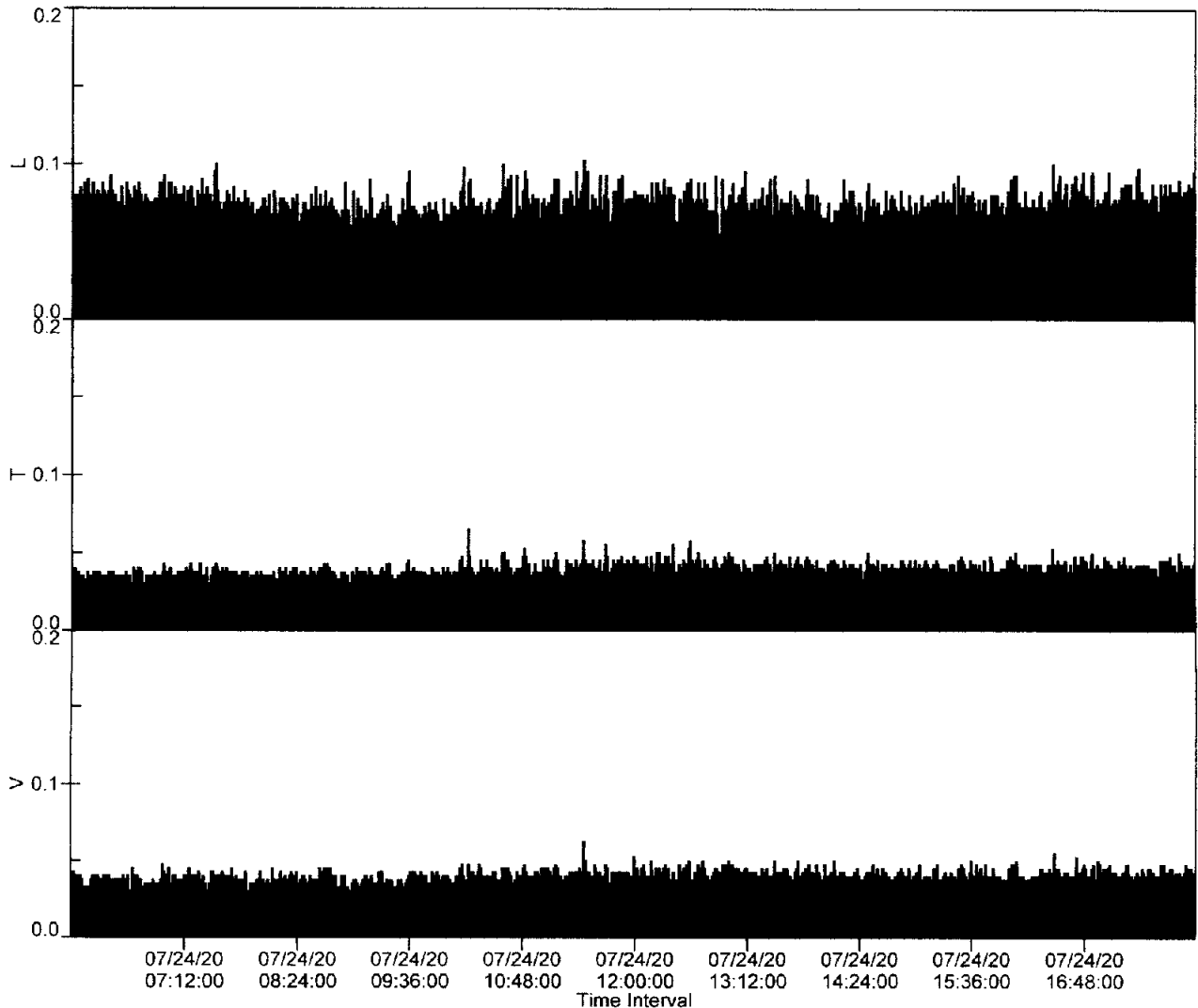
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 3733 Event: 84

Record Max PPV: 0.103 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 07/25/2020 **Time:** 06:01:00
Event: 85
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

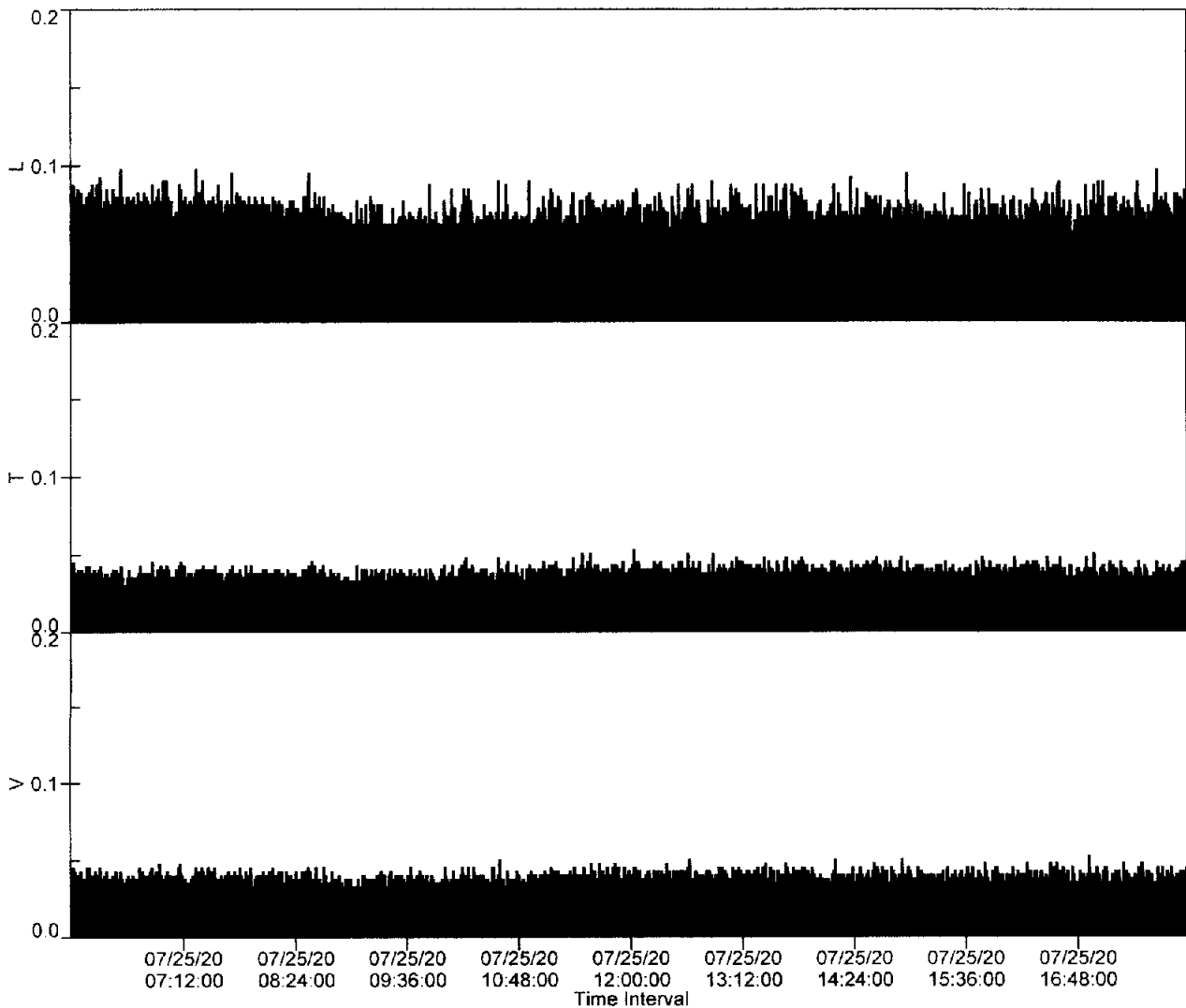
	L	T	V
PPV (in/s)	0.098	0.053	0.053
FREQ (Hz)	500.0	250.0	250.0
Peak Air Pressure:	114 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 85

Record Max PPV: 0.098 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 07/26/2020 **Time:** 06:01:00
Event: 86
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNSP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

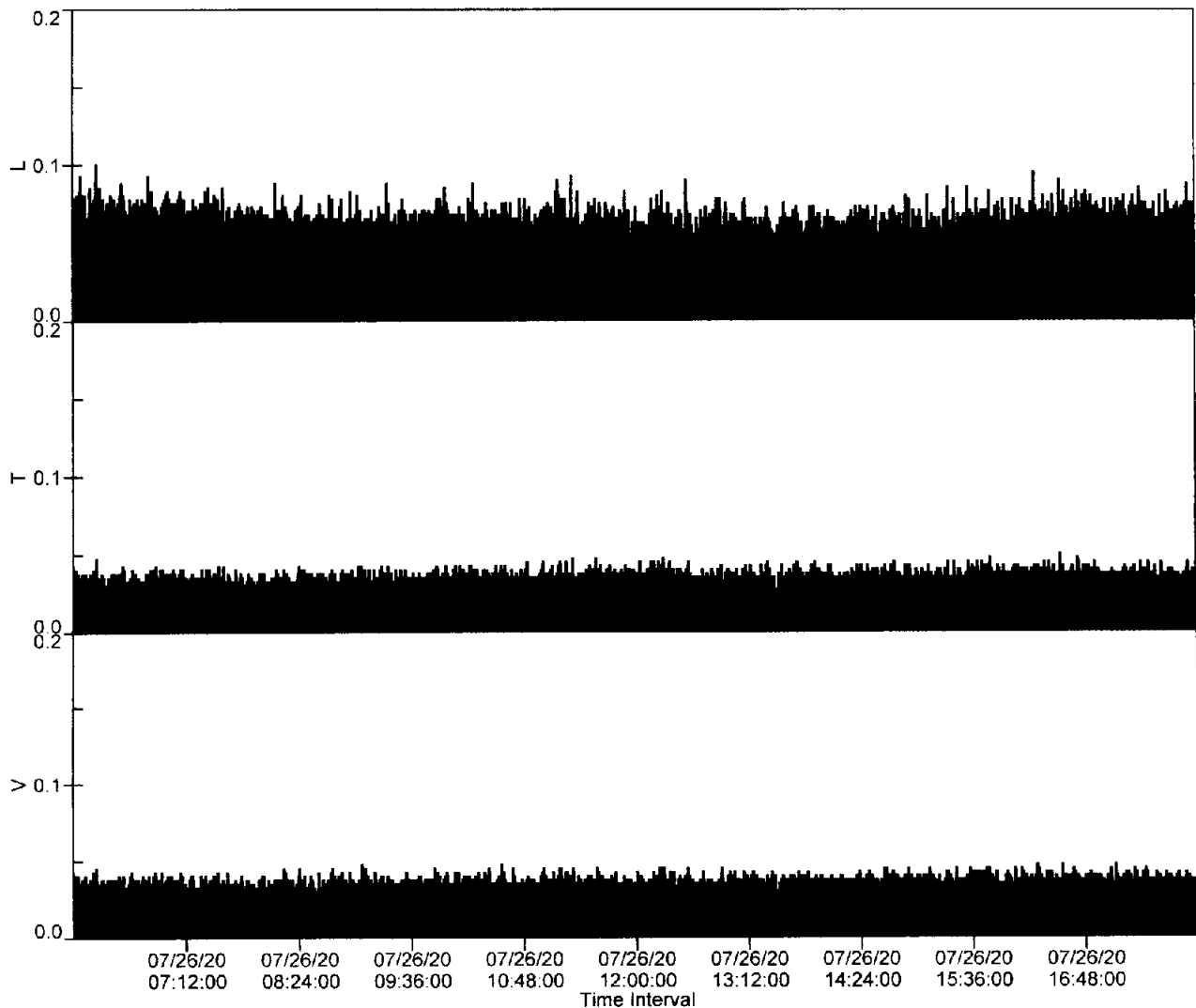
	L	T	V
PPV (in/s)	0.100	0.050	0.048
FREQ (Hz)	125.0	250.0	250.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 86

Record Max PPV: 0.100 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 07/28/2020 **Time:** 06:01:00
Event: 87
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

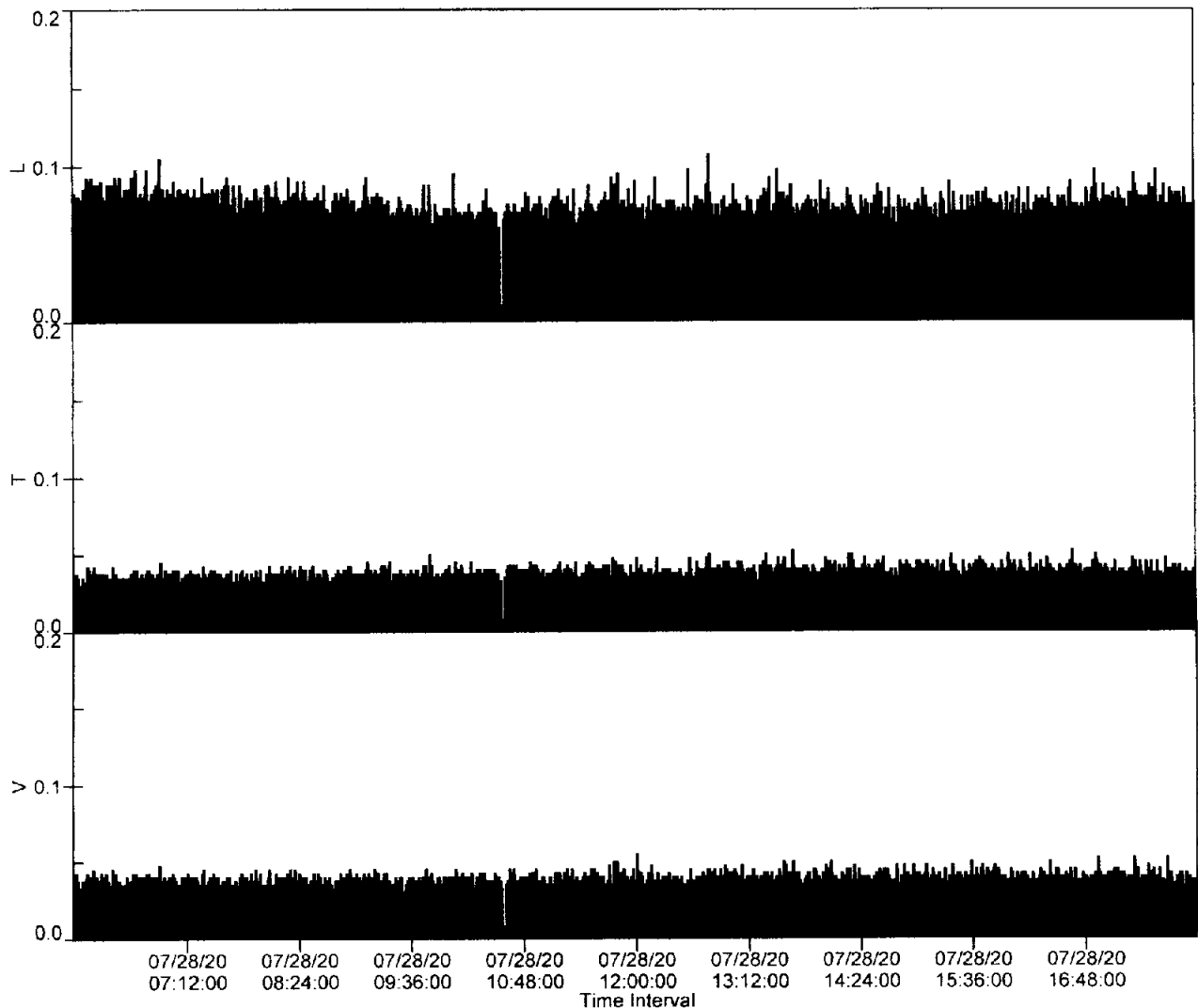
	L	T	V
PPV (in/s)	0.108	0.053	0.055
FREQ (Hz)	250.0	250.0	125.0
Peak Air Pressure:	114 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 87

Record Max PPV: 0.108 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 07/29/2020 **Time:** 06:01:00
Event: 88
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

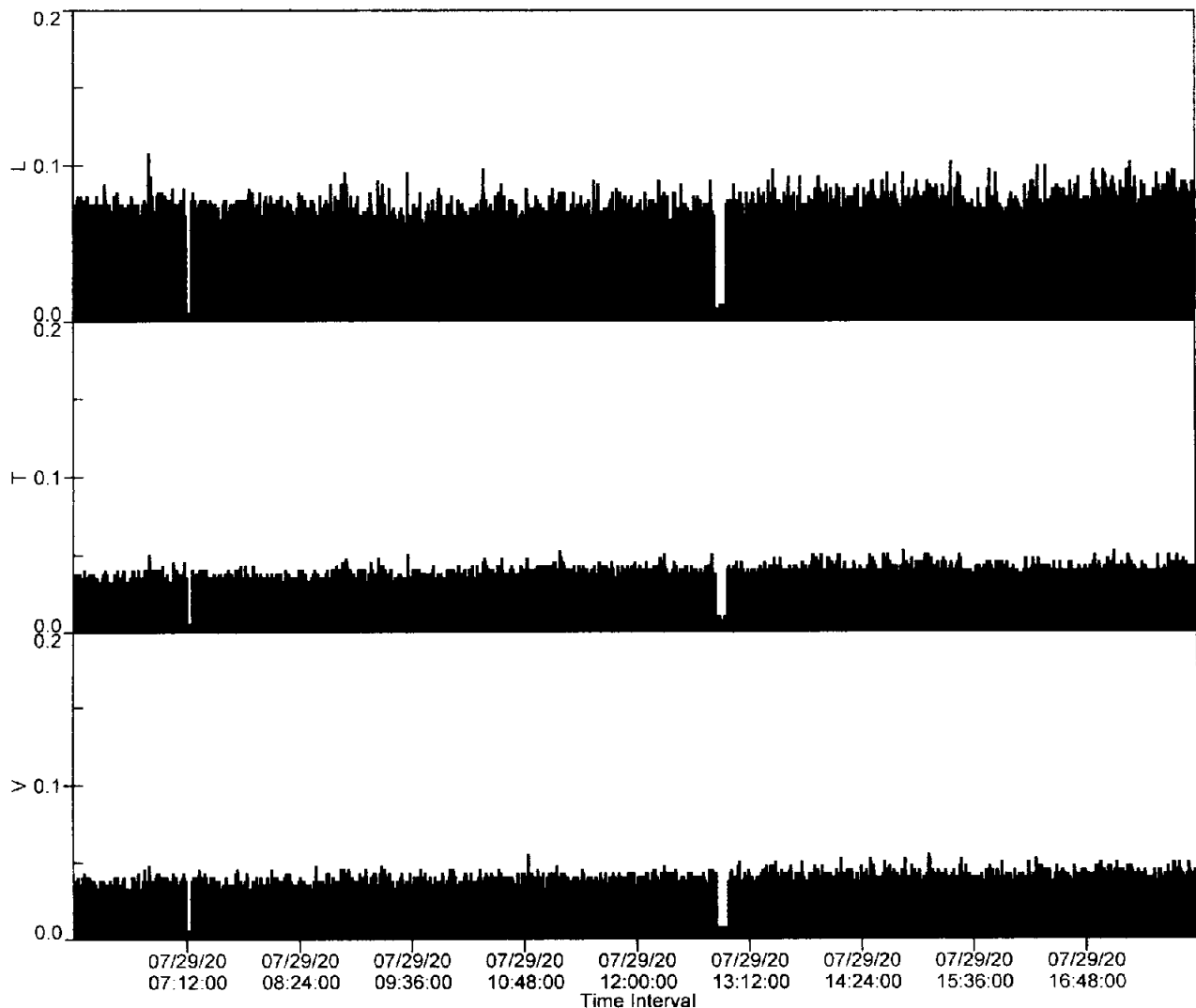
	L	T	V
PPV (in/s)	0.108	0.053	0.055
FREQ (Hz)	166.7	250.0	500.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 88

Record Max PPV: 0.108 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 07/30/2020 **Time:** 06:01:00
Event: 89
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

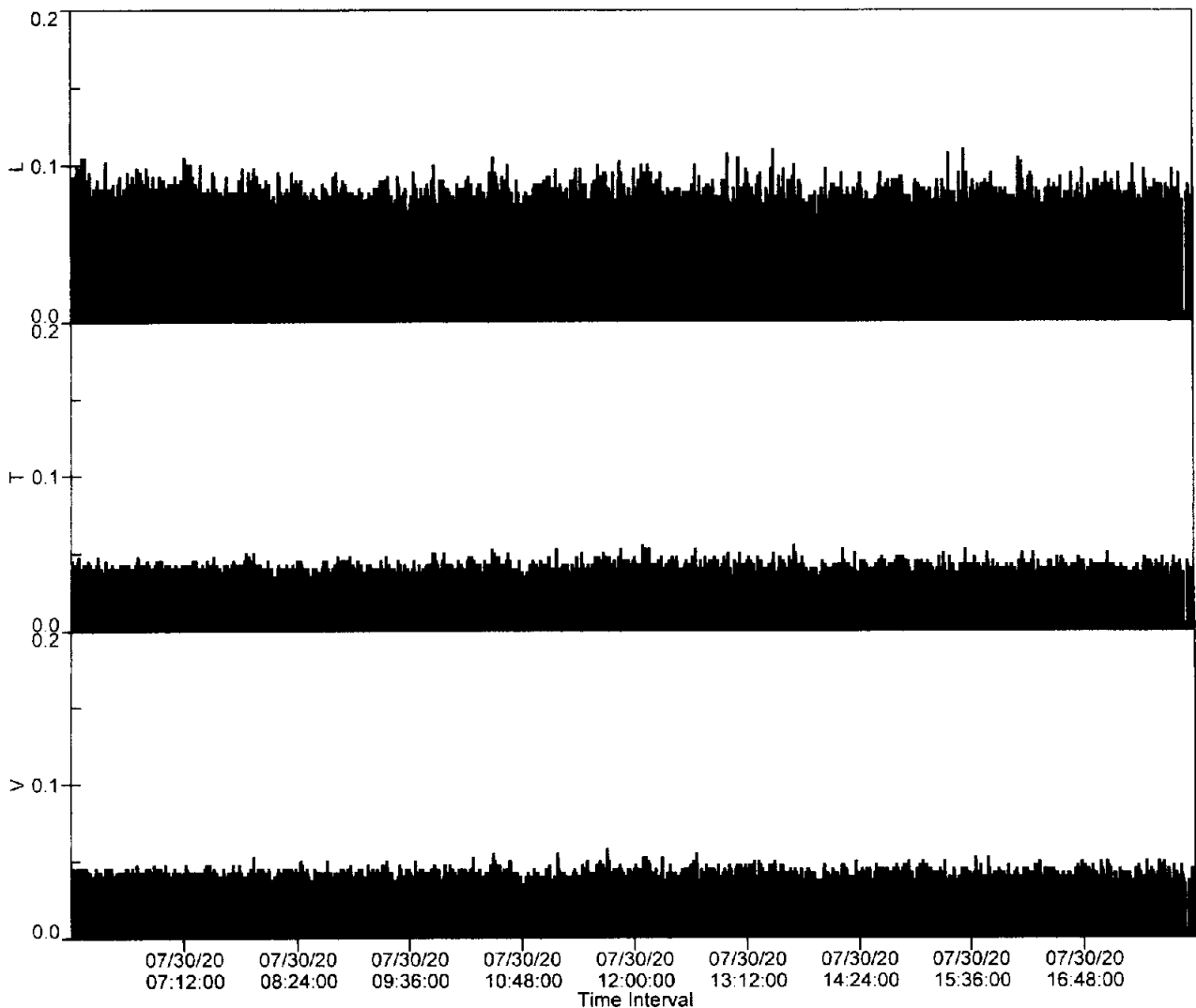
	L	T	V
PPV (in/s)	0.110	0.055	0.058
FREQ (Hz)	125.0	250.0	166.7
Peak Air Pressure:	116 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 89

Record Max PPV: 0.110 in/s Record Max DB: 116 db



SN: 3733 v3.22
Date: 07/31/2020 **Time:** 06:01:00
Event: 90
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.108	0.058	0.055
FREQ (Hz)	250.0	250.0	250.0
Peak Air Pressure:	114 db		

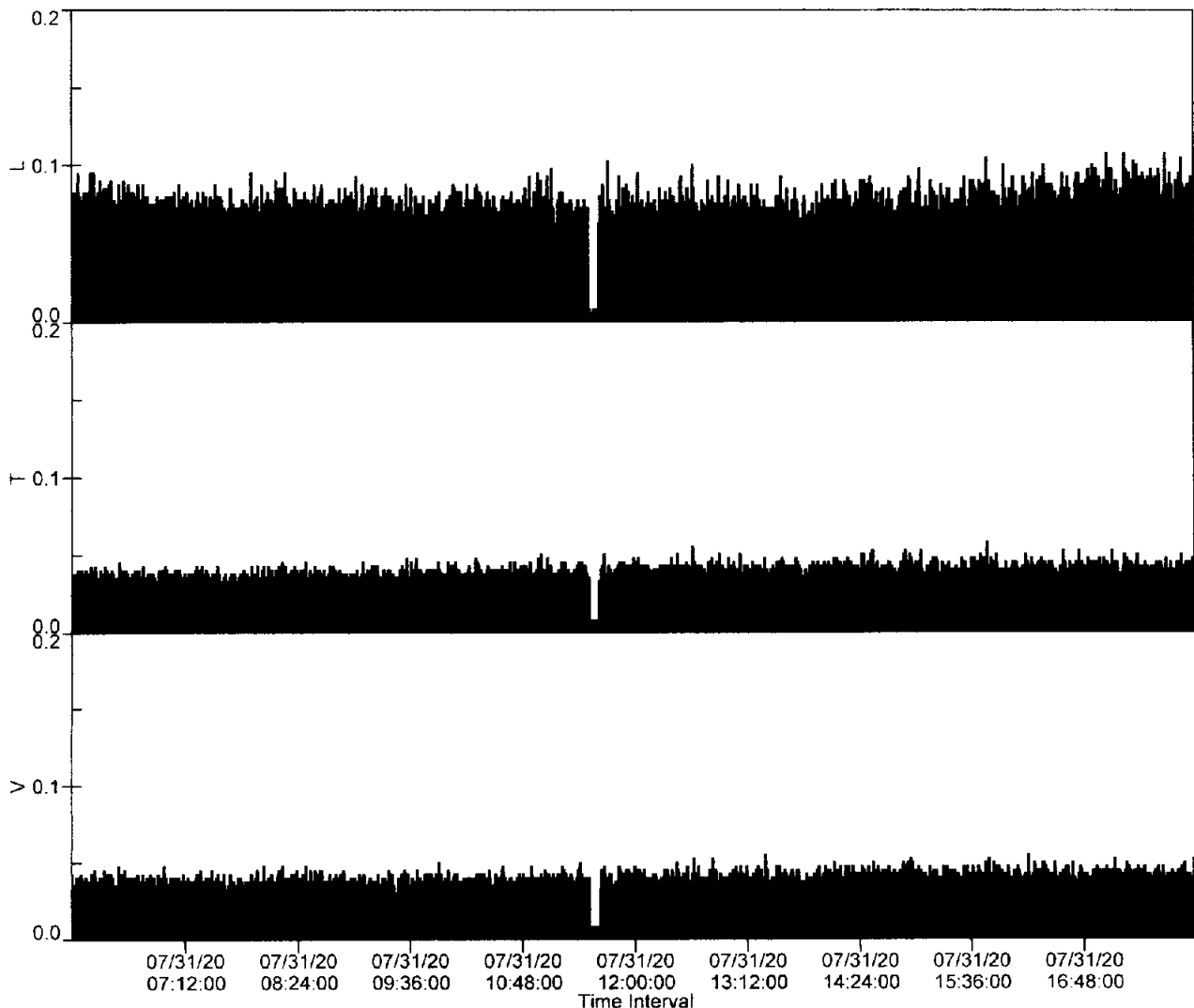
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 3733 Event: 90

Record Max PPV: 0.108 in/s Record Max DB: 114 db



SN: 3733 v3.22
Date: 08/01/2020 **Time:** 06:01:00
Event: 91
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

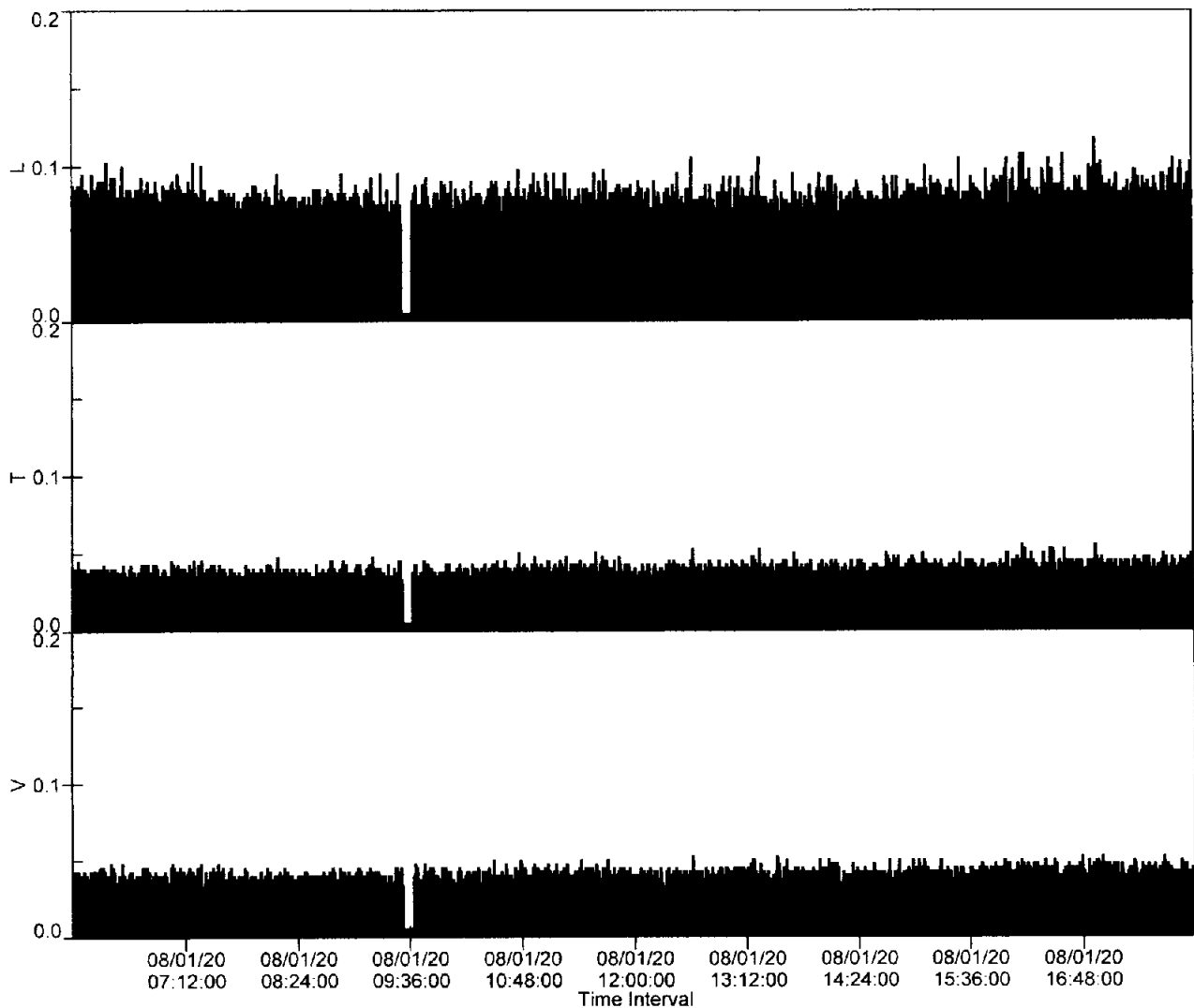
	L	T	V
PPV (in/s)	0.118	0.055	0.053
FREQ (Hz)	250.0	125.0	250.0
Peak Air Pressure:	115 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 91

Record Max PPV: 0.118 in/s Record Max DB: 115 db



SN: 3733 v3.22
Date: 08/02/2020 **Time:** 06:01:00
Event: 92
Client: BERGER CONST
Operation: EXCAVATION
Location: #7 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW CORNER BEND

**Continuous Monitor Recording
Summary Data**

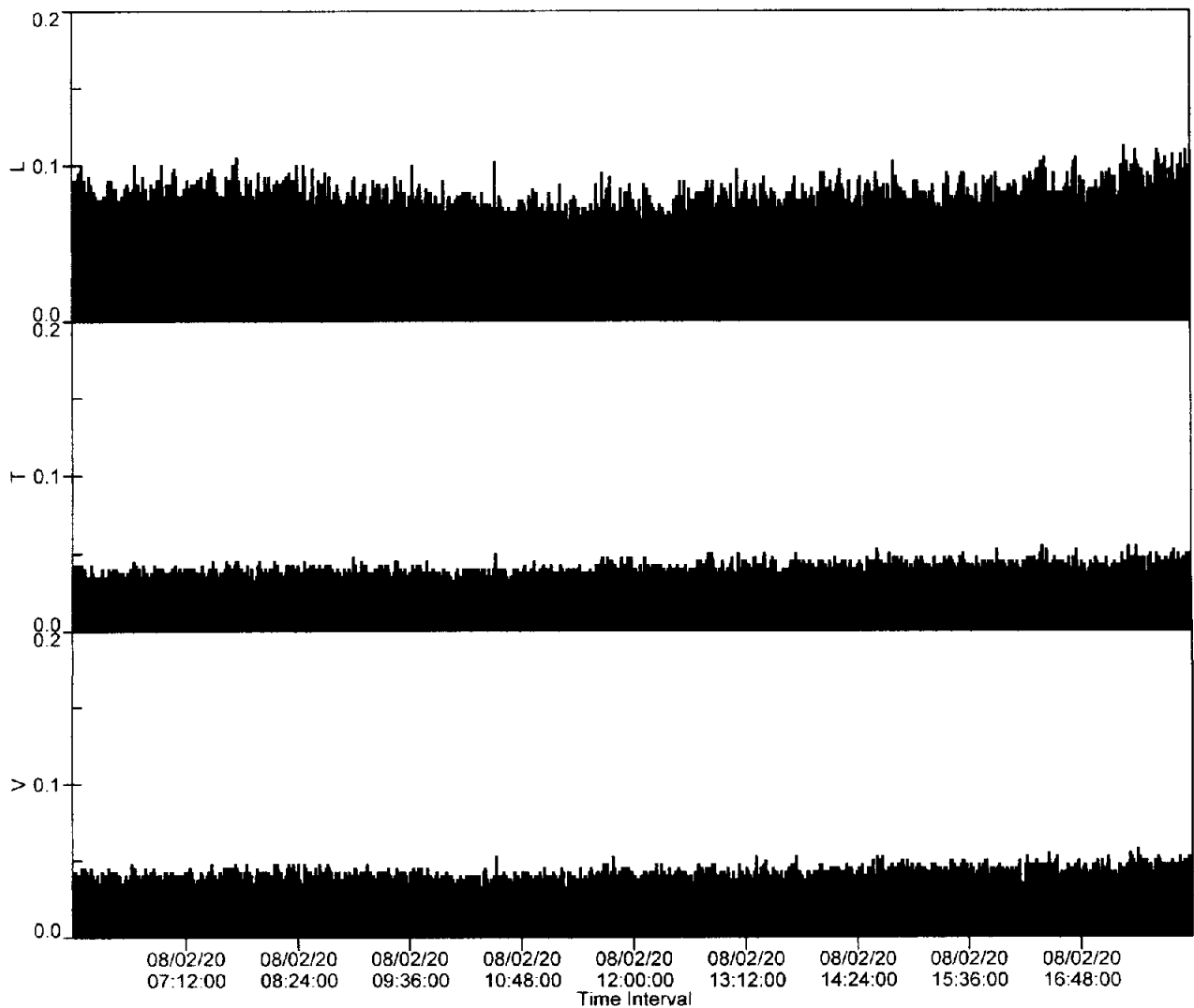
	L	T	V
PPV (in/s)	0.113	0.055	0.058
FREQ (Hz)	250.0	500.0	250.0
Peak Air Pressure:	114 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 3733 Event: 92

Record Max PPV: 0.113 in/s Record Max DB: 114 db



SN: 8336 v3.66
Date: 07/20/2020 **Time:** 06:01:00
Event: 41
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

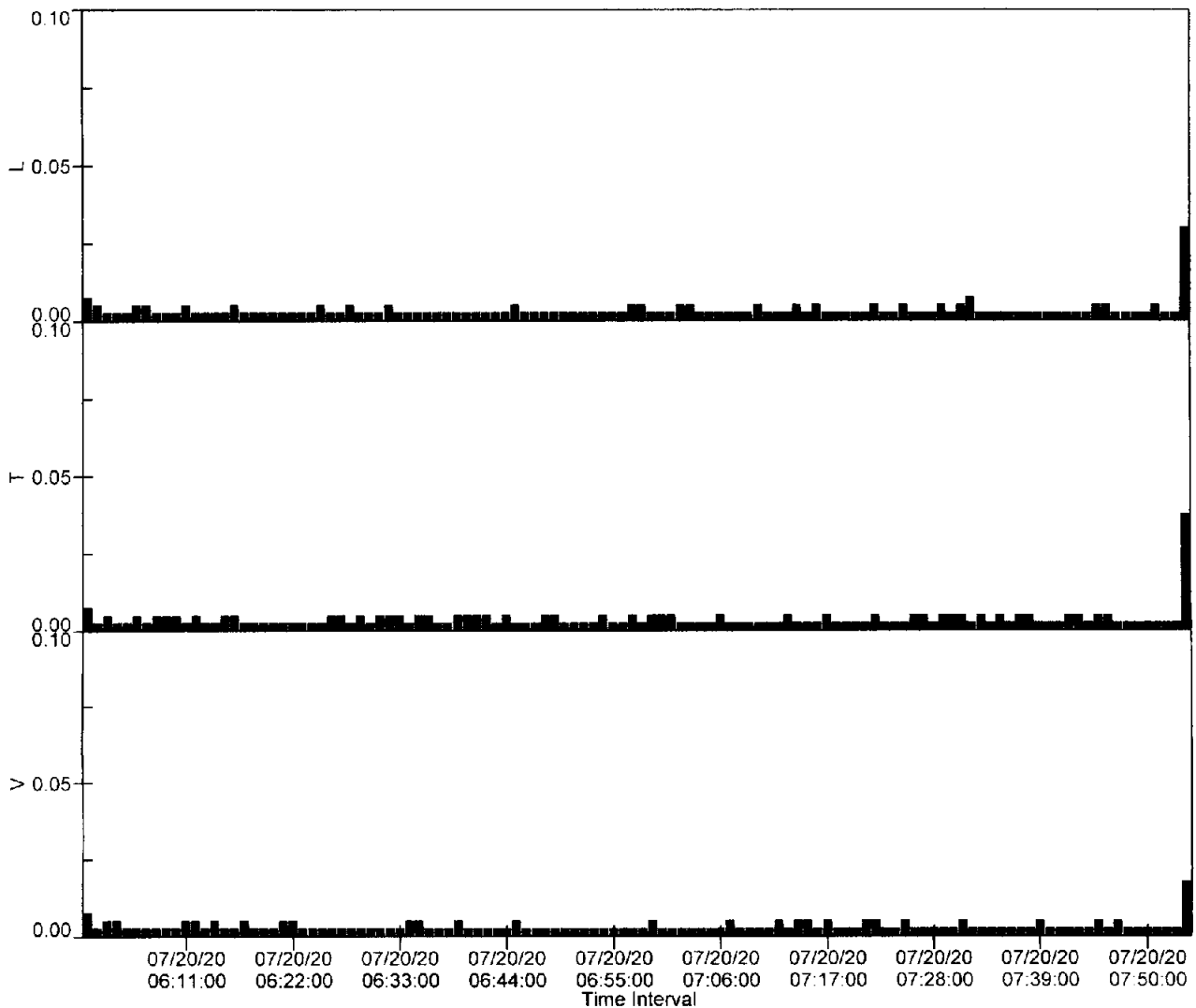
	L	T	V
PPV (in/s)	0.030	0.038	0.018
FREQ (Hz)	62.5	83.3	71.4
Peak Air Pressure:	78 db		
Recording Time:	114 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 41

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



SN: 8336 v3.66
Date: 07/20/2020 **Time:** 08:01:00
Event: 1
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

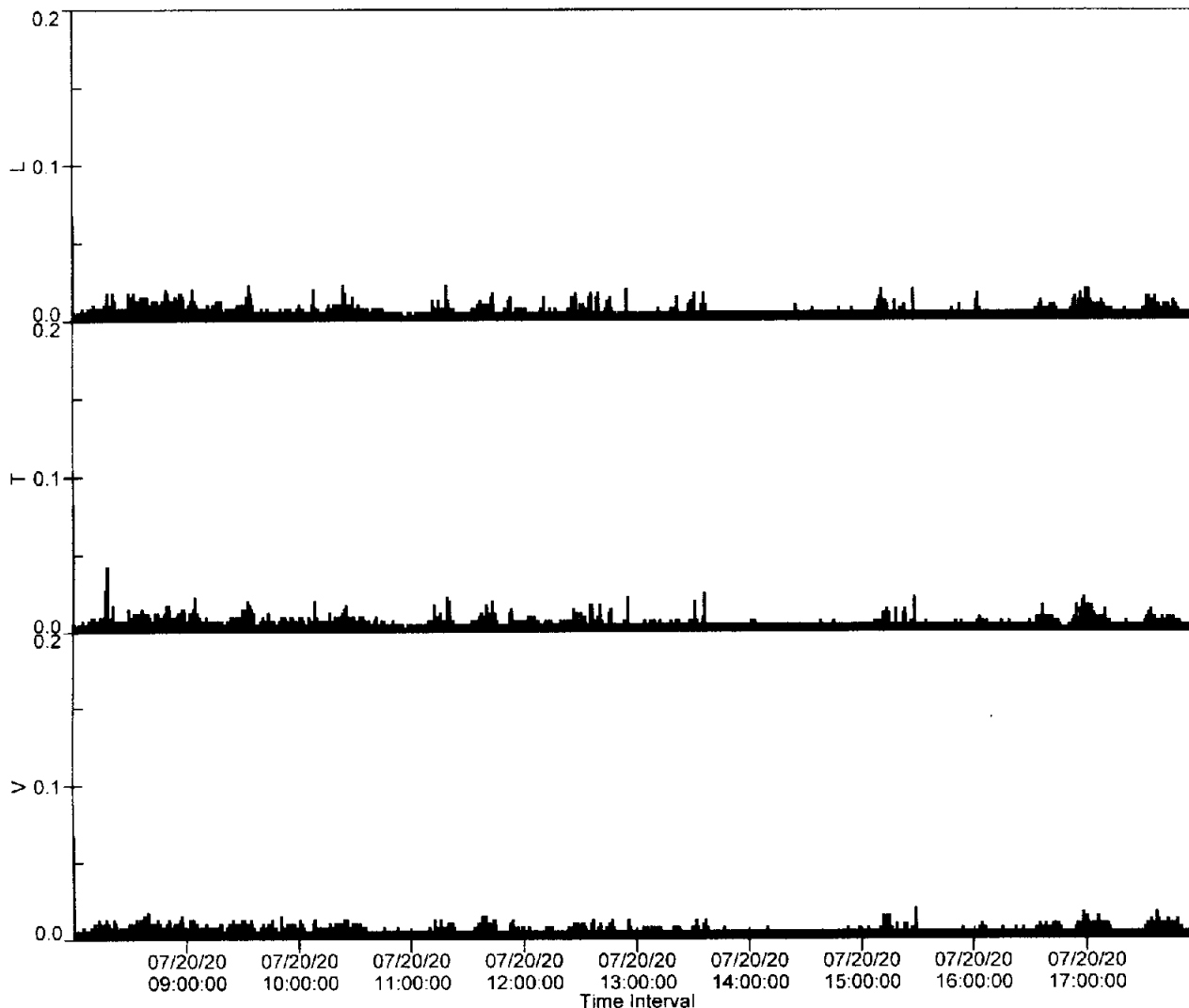
	L	T	V
PPV (in/s)	0.068	0.083	0.068
FREQ (Hz)	83.3	71.4	22.7
Peak Air Pressure:	78 db		
Recording Time:	598 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 1

Record Max PPV: 0.083 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/21/2020 **Time:** 06:01:00
Event: 2
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.038	0.018	0.025
FREQ (Hz)	45.5	19.2	45.5
Peak Air Pressure:	78 db		

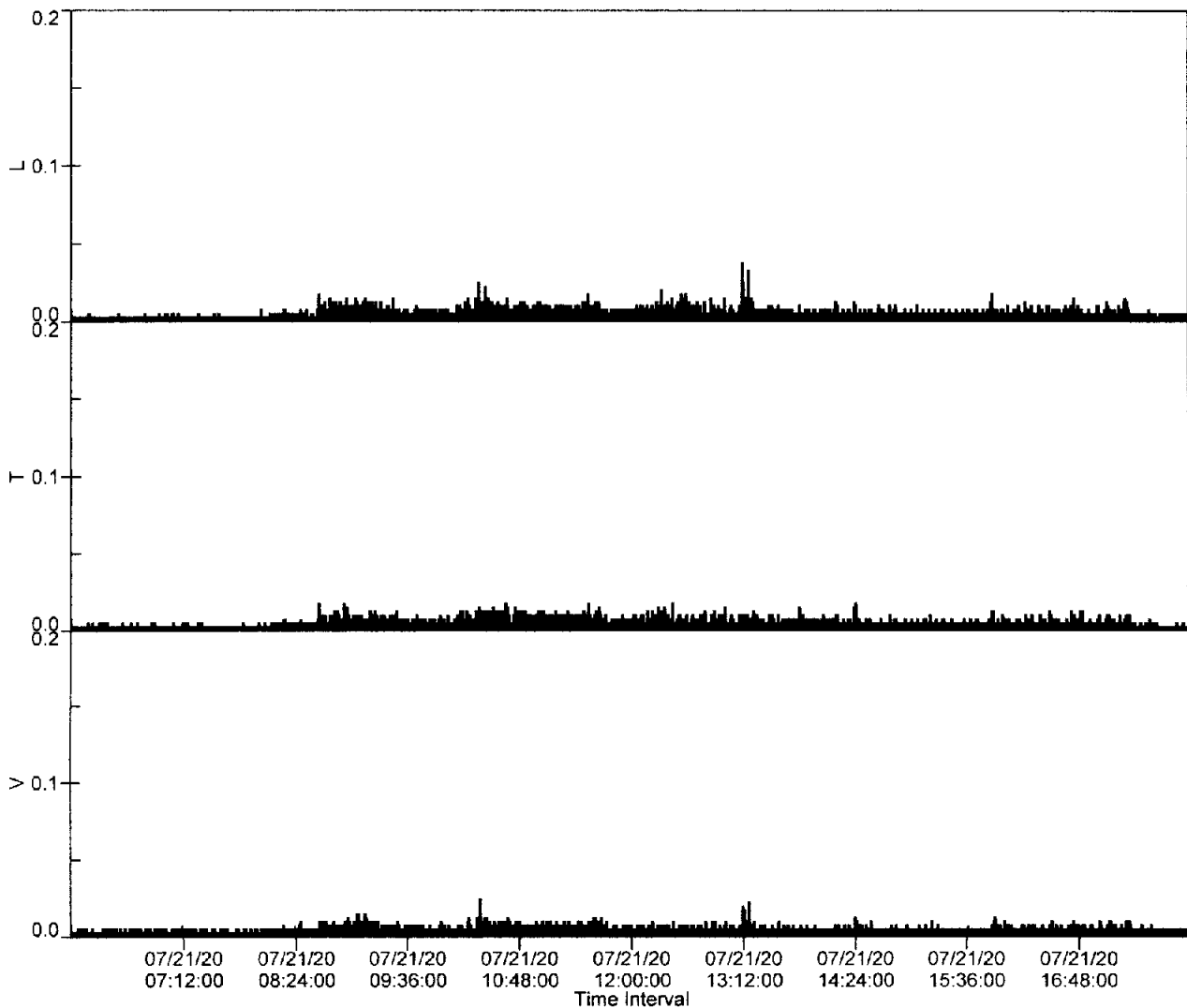
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 2

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



SN: 8336 v3.66
Date: 07/22/2020 **Time:** 06:01:00
Event: 3
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.023	0.023	0.023
FREQ (Hz)	20.0	29.4	17.9
Peak Air Pressure:	78 db		

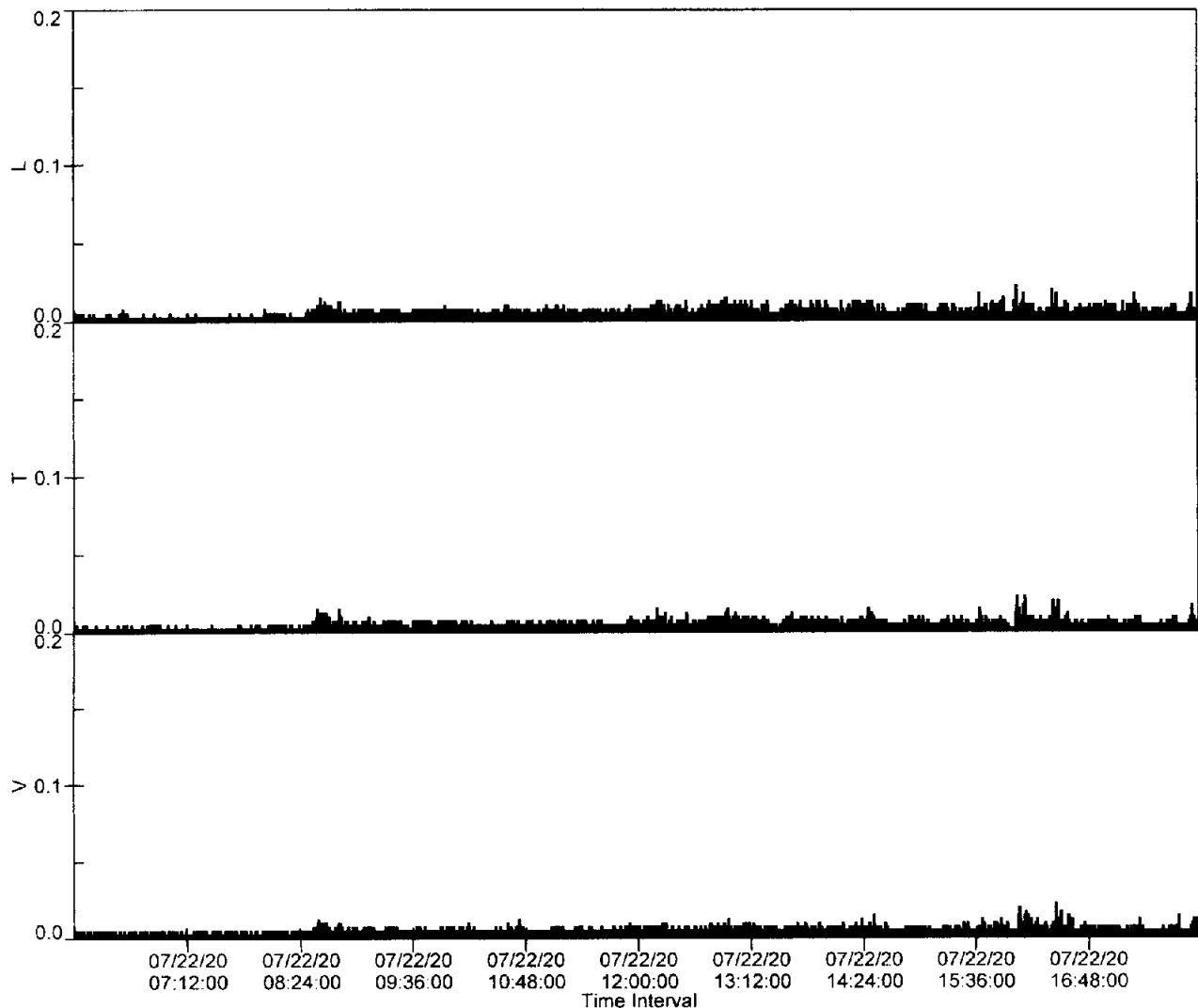
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 3

Record Max PPV: 0.023 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/23/2020 **Time:** 06:01:00
Event: 4
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.100	0.055	0.053
FREQ (Hz)	23.8	250.0	250.0
Peak Air Pressure:	115 db		

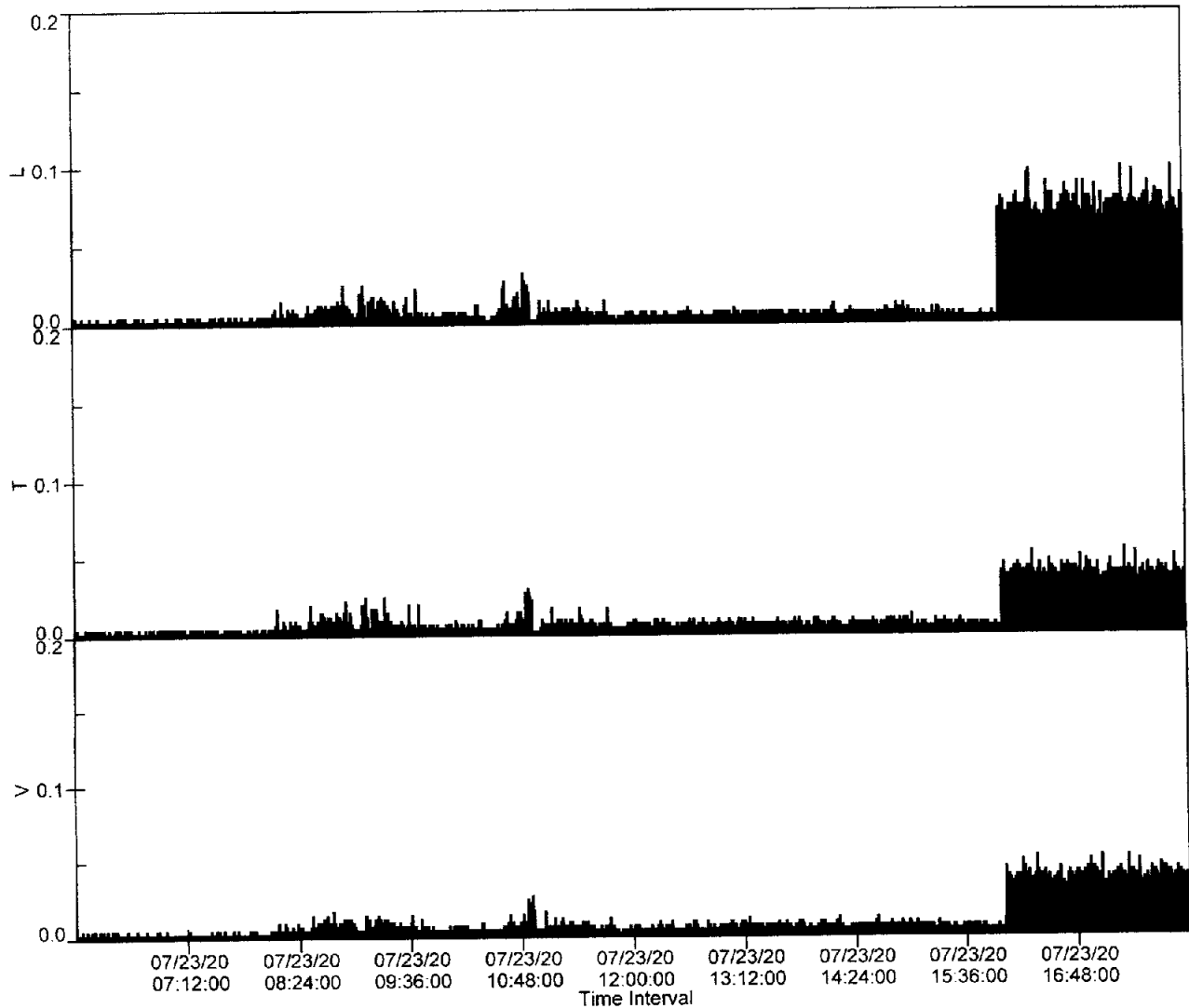
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 4

Record Max PPV: 0.100 in/s Record Max DB: 115 db



SN: 8336 v3.66
Date: 07/24/2020 **Time:** 06:01:00
Event: 5
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.020	0.020
FREQ (Hz)	23.8	29.4	10.0
Peak Air Pressure:	78 db		

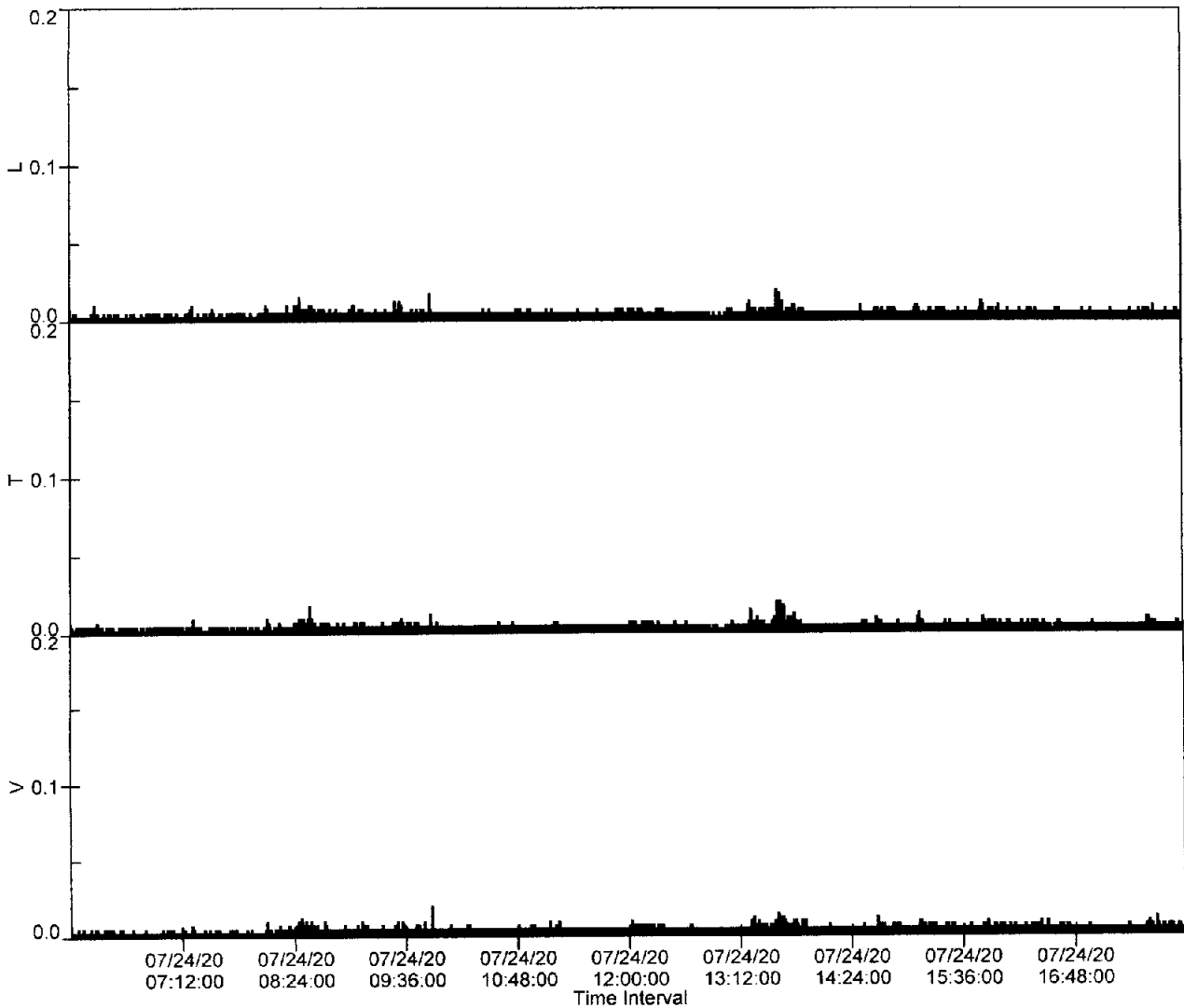
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 5

Record Max PPV: 0.020 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/25/2020 **Time:** 06:01:00
Event: 6
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.043	0.035	0.030
FREQ (Hz)	35.7	29.4	22.7
Peak Air Pressure:	78 db		

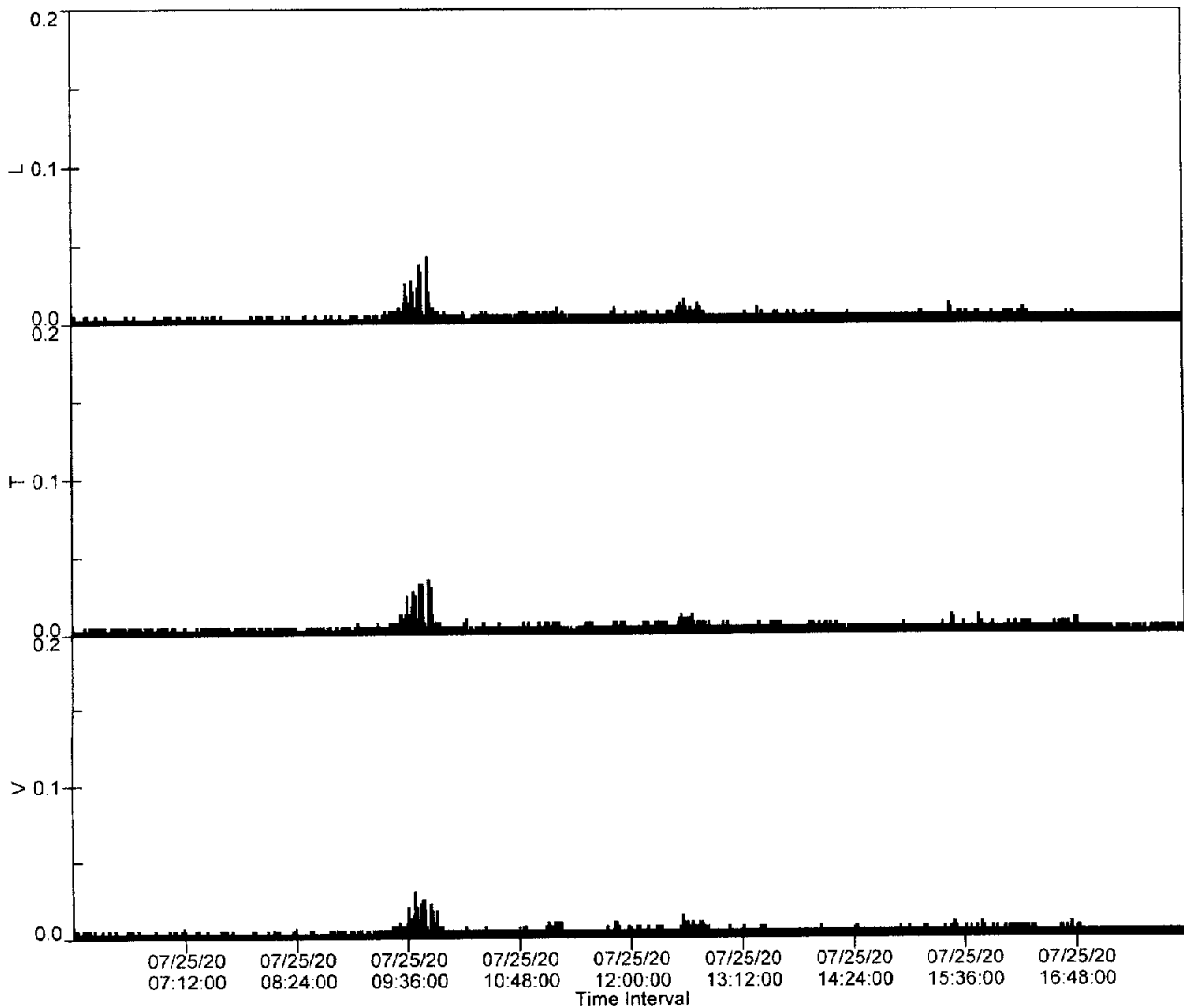
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 6

Record Max PPV: 0.043 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/26/2020 **Time:** 06:01:00
Event: 7
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.5	2.4	2.5
Peak Air Pressure: 78 db			

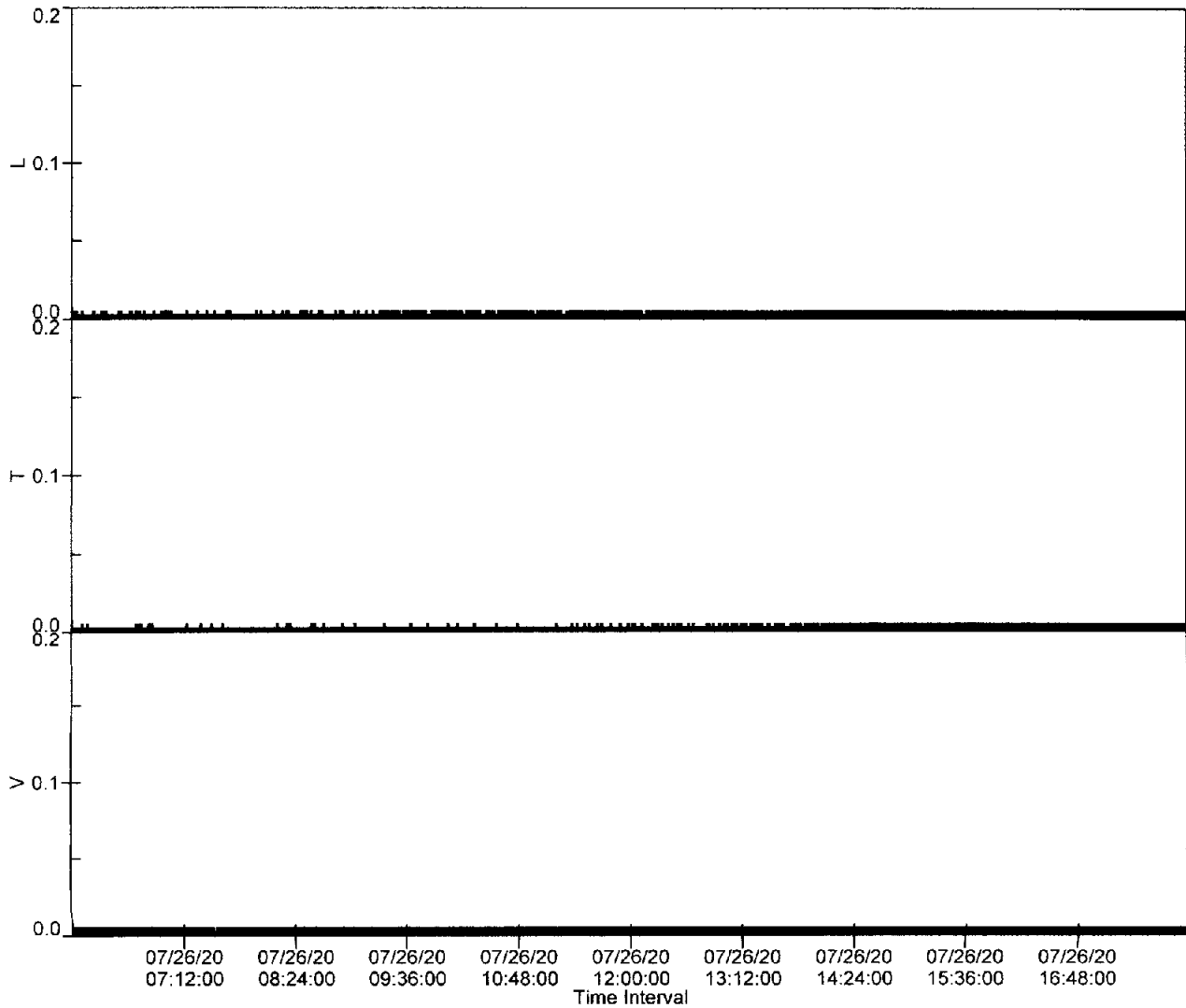
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 7

Record Max PPV: 0.008 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/27/2020 **Time:** 06:01:00
Event: 8
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.045	0.043	0.035
FREQ (Hz)	31.3	31.3	18.5
Peak Air Pressure:	78 db		

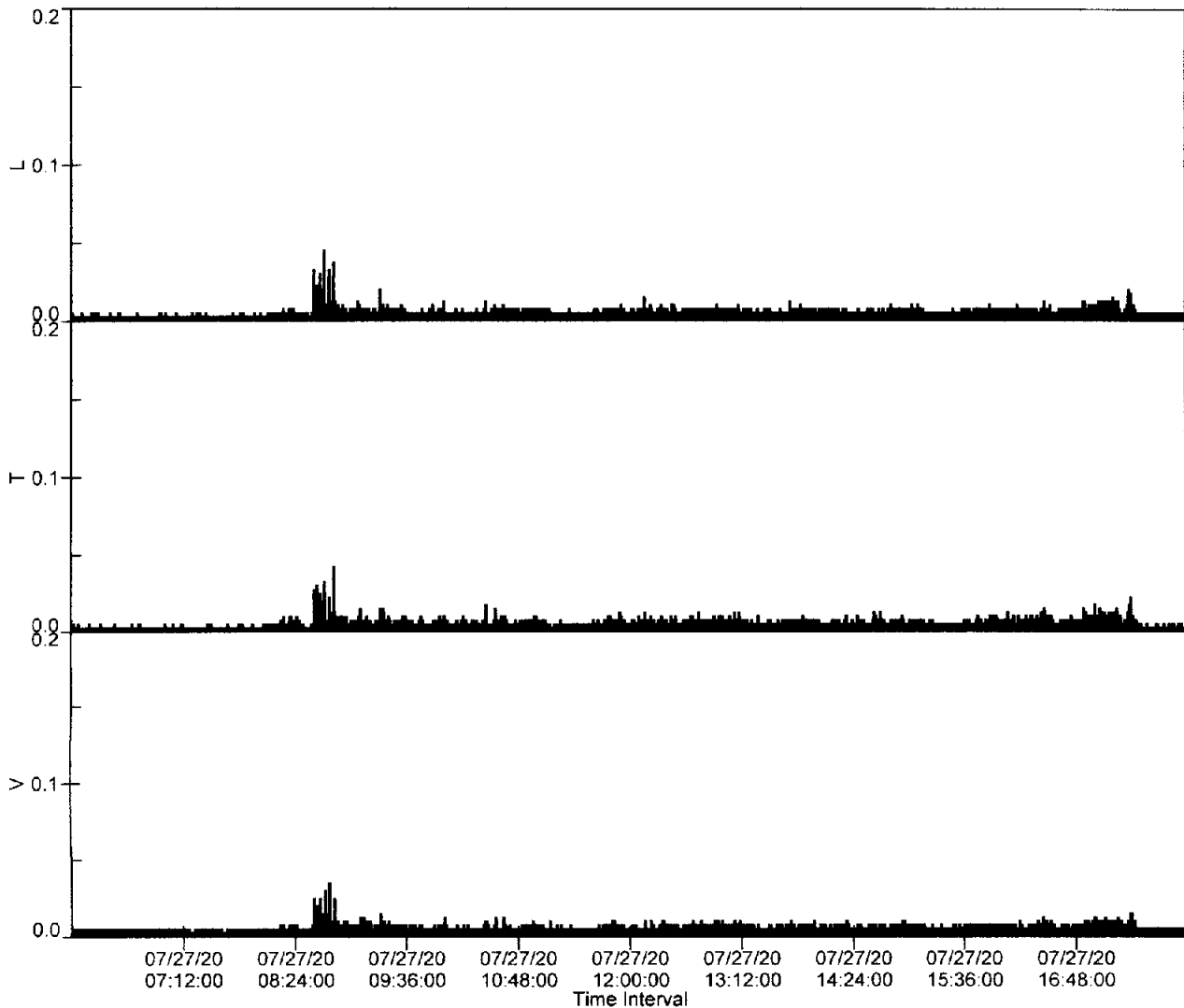
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 8

Record Max PPV: 0.045 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/28/2020 **Time:** 06:01:00
Event: 9
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.025	0.033	0.018
FREQ (Hz)	16.1	27.8	23.8
Peak Air Pressure:	78 db		

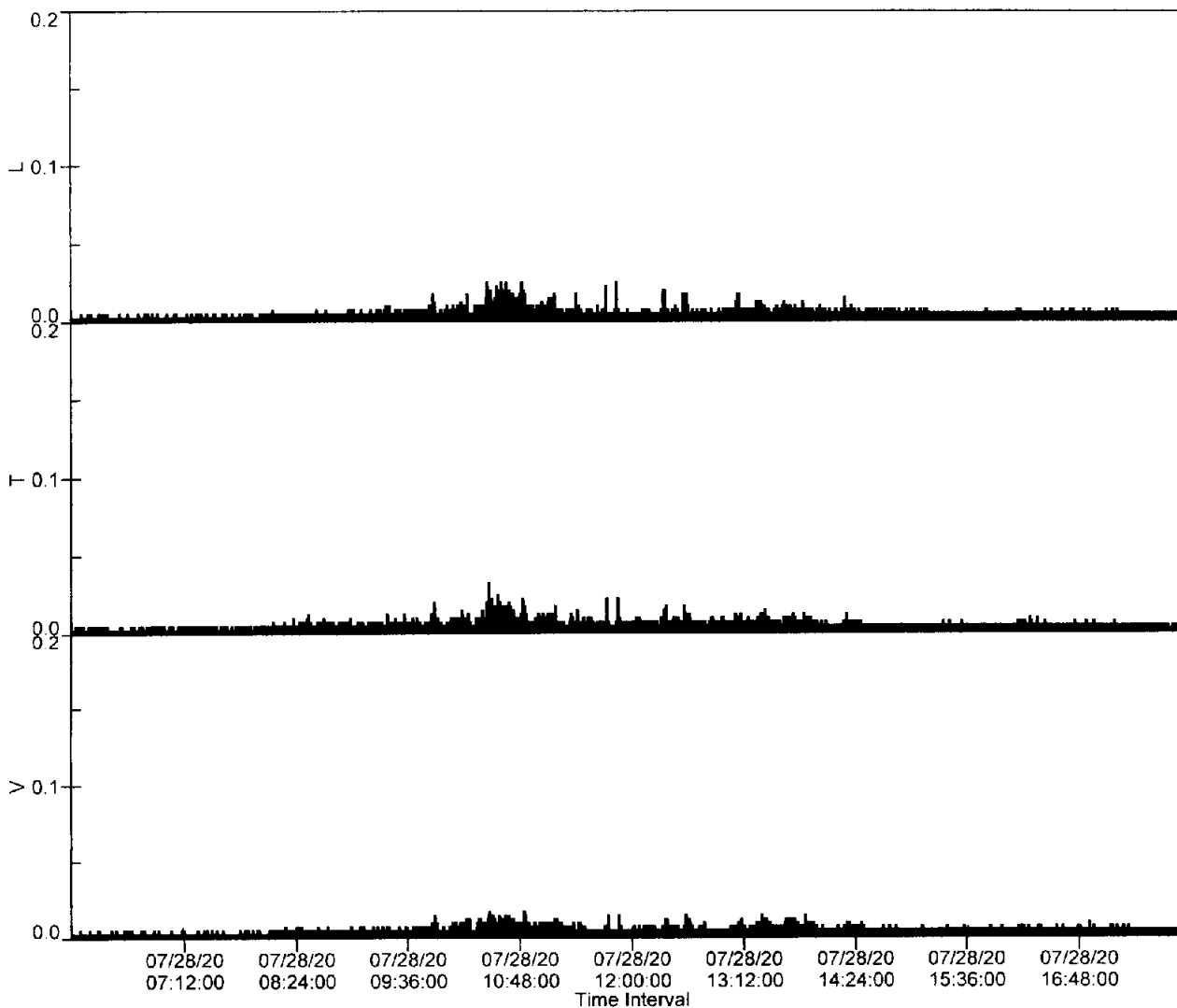
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 9

Record Max PPV: 0.033 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/29/2020 **Time:** 06:01:00
Event: 10
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.040	0.048	0.038
FREQ (Hz)	29.4	25.0	23.8
Peak Air Pressure:	78 db		

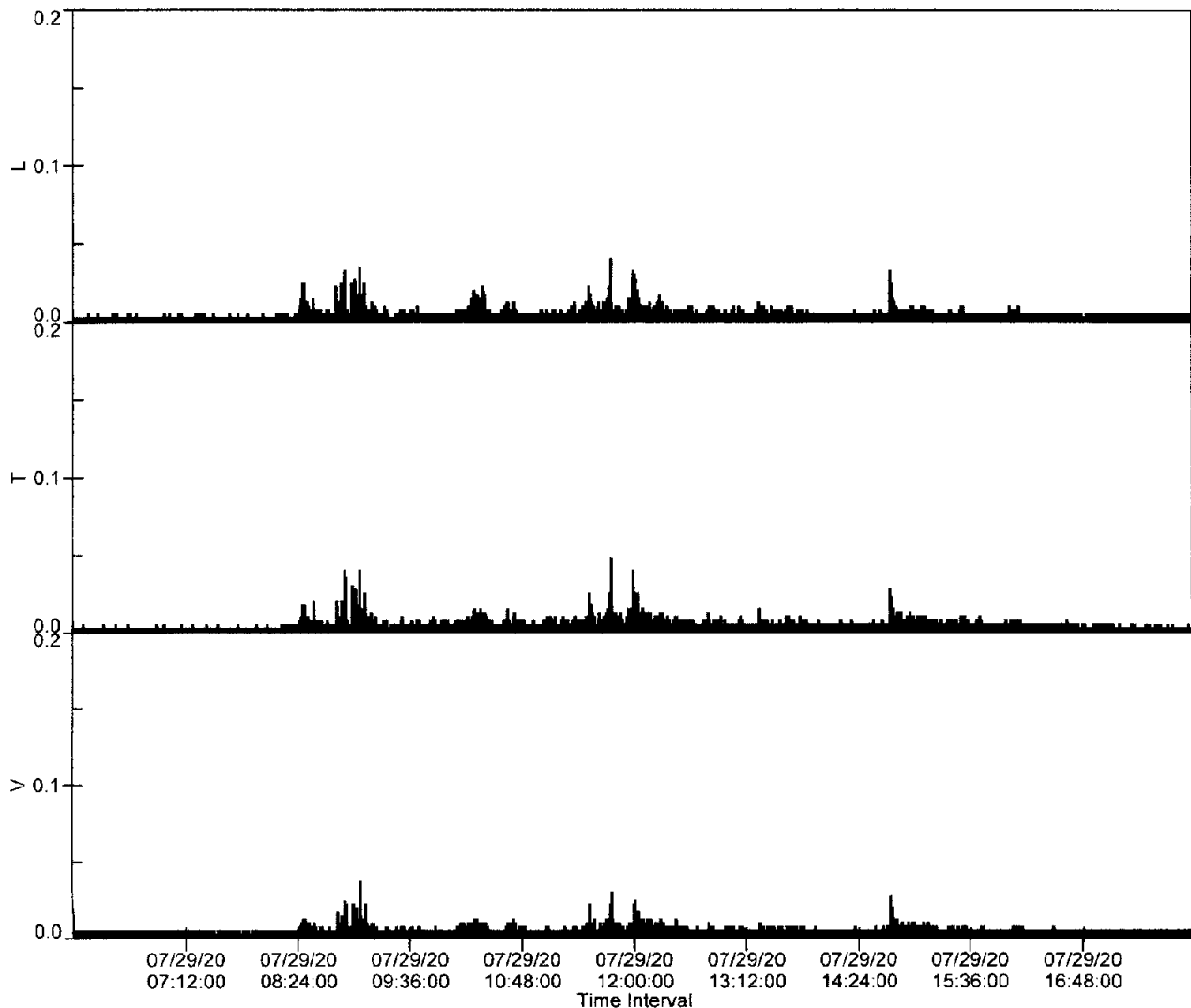
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 10

Record Max PPV: 0.048 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/30/2020 **Time:** 06:01:00
Event: 11
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNSP
Distance: 10.
Operator: CFI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

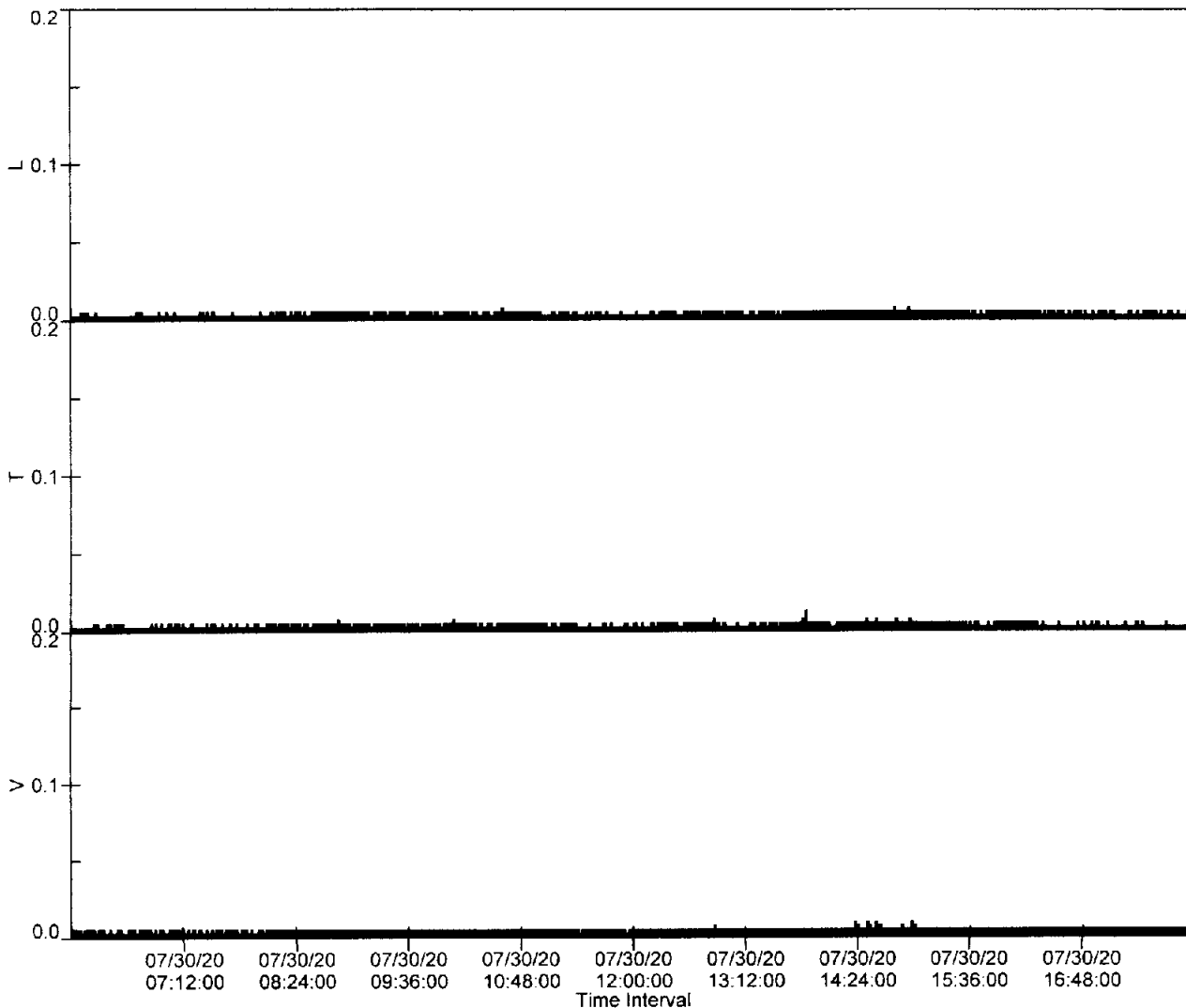
	L	T	V
PPV (in/s)	0.008	0.013	0.010
FREQ (Hz)	.4	10.0	7.1
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 11

Record Max PPV: 0.013 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 07/31/2020 **Time:** 06:01:00
Event: 12
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.015	0.013	0.013
FREQ (Hz)	15.2	20.8	18.5
Peak Air Pressure:	78 db		

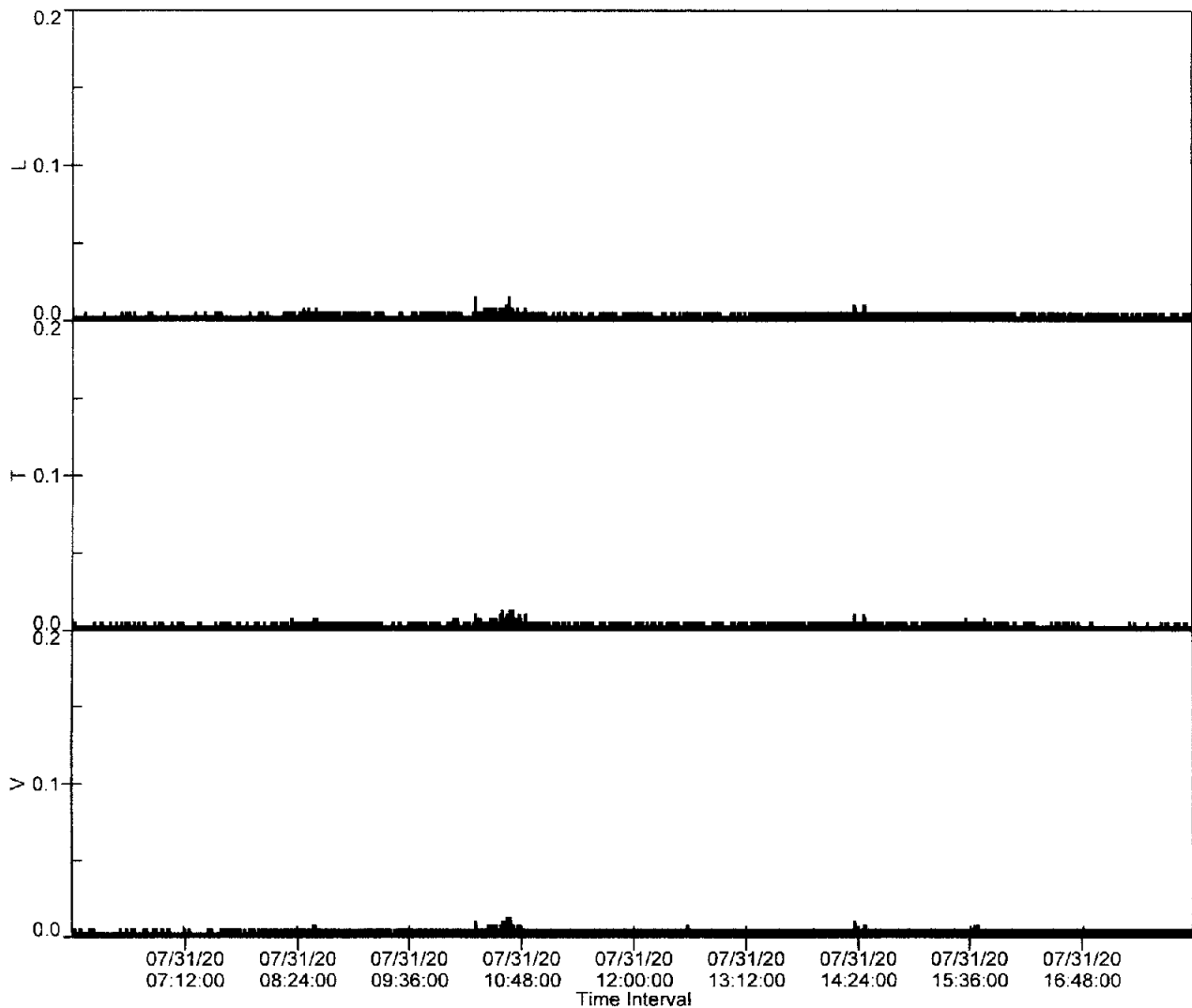
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 12

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



SN: 8336 v3.66
Date: 08/01/2020 **Time:** 06:01:00
Event: 13
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.108	0.055	0.100
FREQ (Hz)	20.8	27.8	35.7
Peak Air Pressure:	78 db		

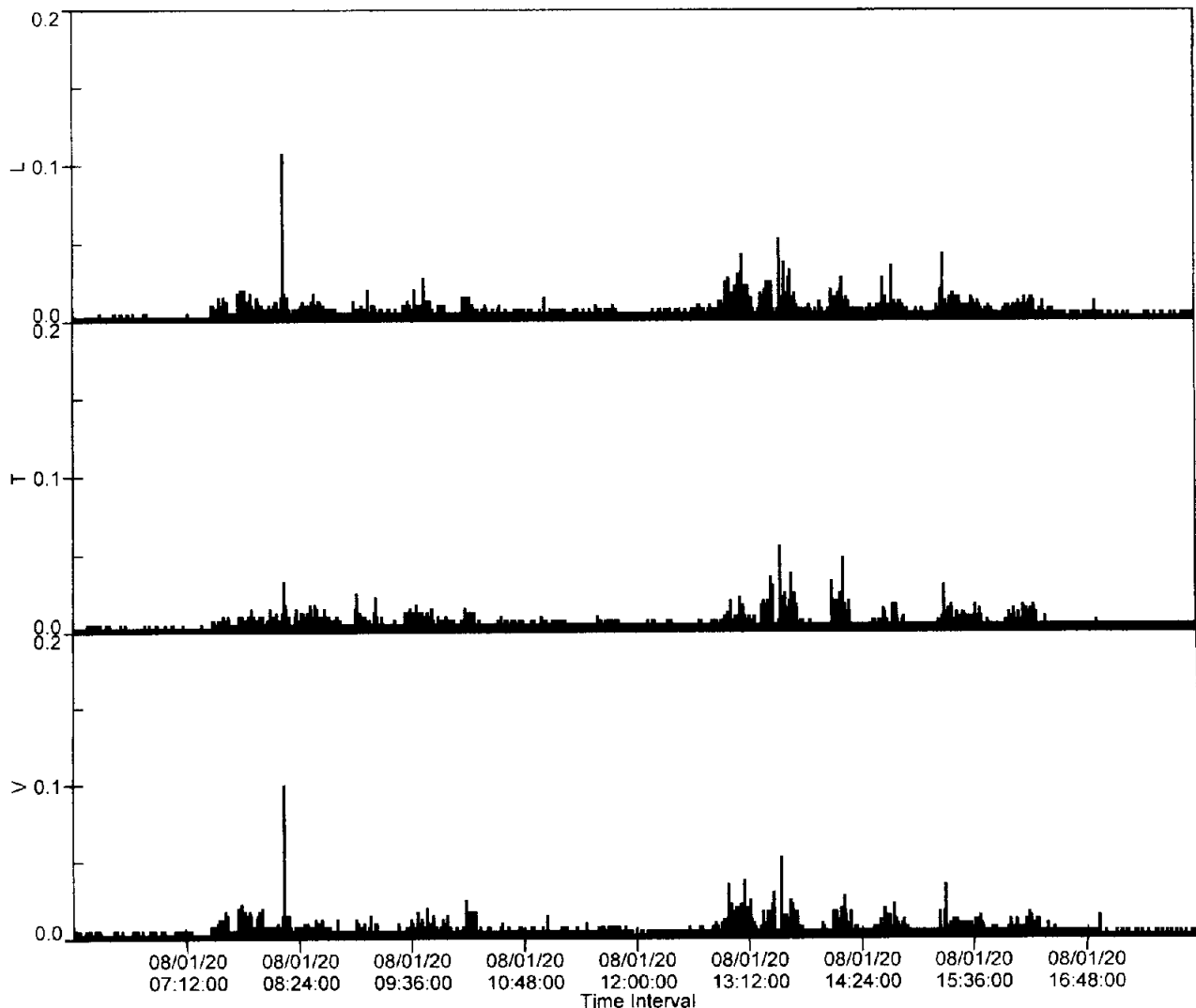
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 13

Record Max PPV: 0.108 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 08/01/2020 **Time:** 06:01:00
Event: 13
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.008	0.008	0.008
FREQ (Hz)	.4	2.1	.3
Peak Air Pressure:	78 db		

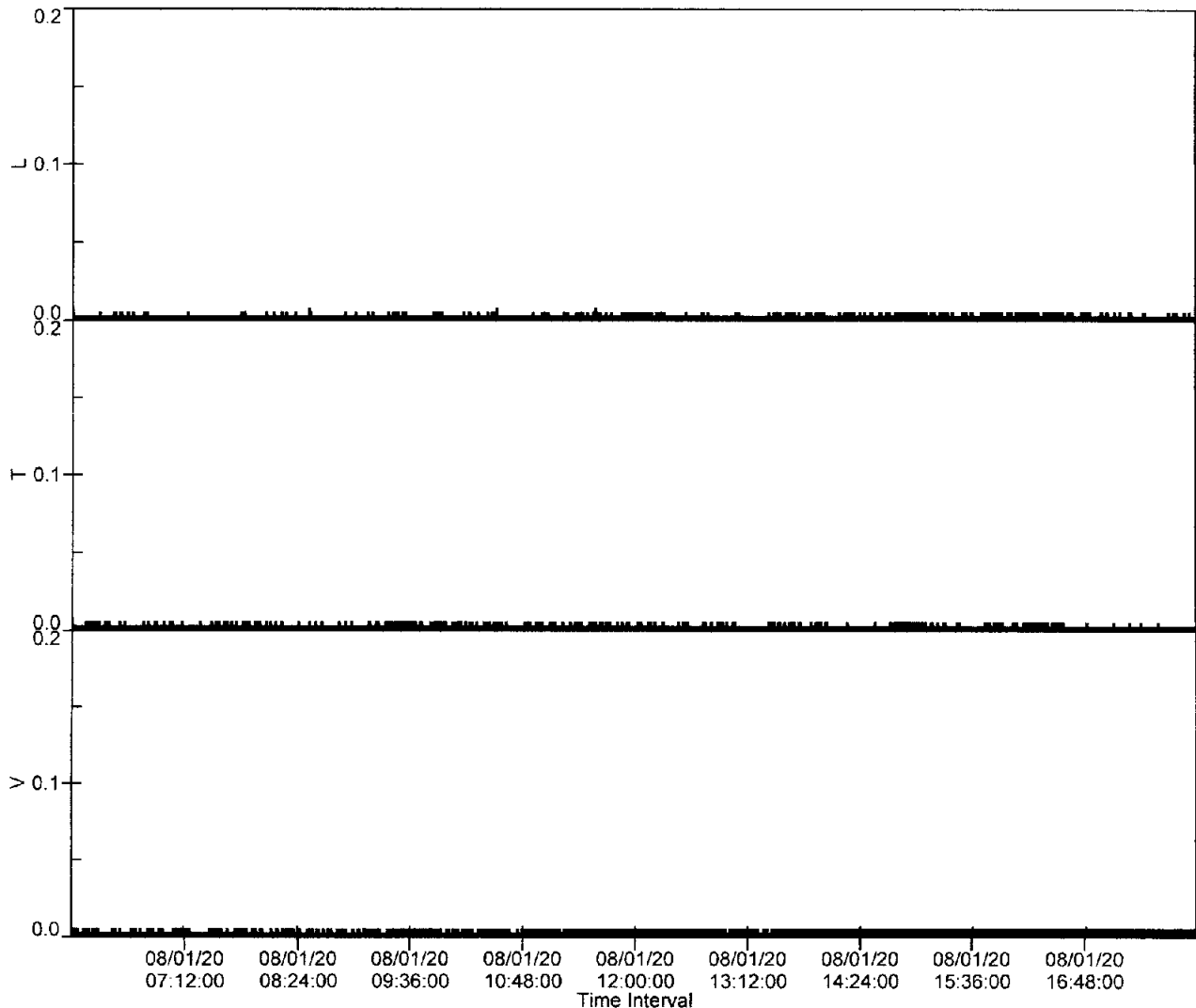
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 13

Record Max PPV: 0.008 in/s Record Max DB: 78 db



SN: 8336 v3.66
Date: 08/02/2020 **Time:** 06:01:00
Event: 14
Client: BERGER CONST
Operation: EXCAVATION
Location: #8 WSNP
Distance: 10.
Operator: CTI INC
Comment: SW UNIT

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.013	0.015	0.013
FREQ (Hz)	23.8	45.5	26.3
Peak Air Pressure: 78 db			

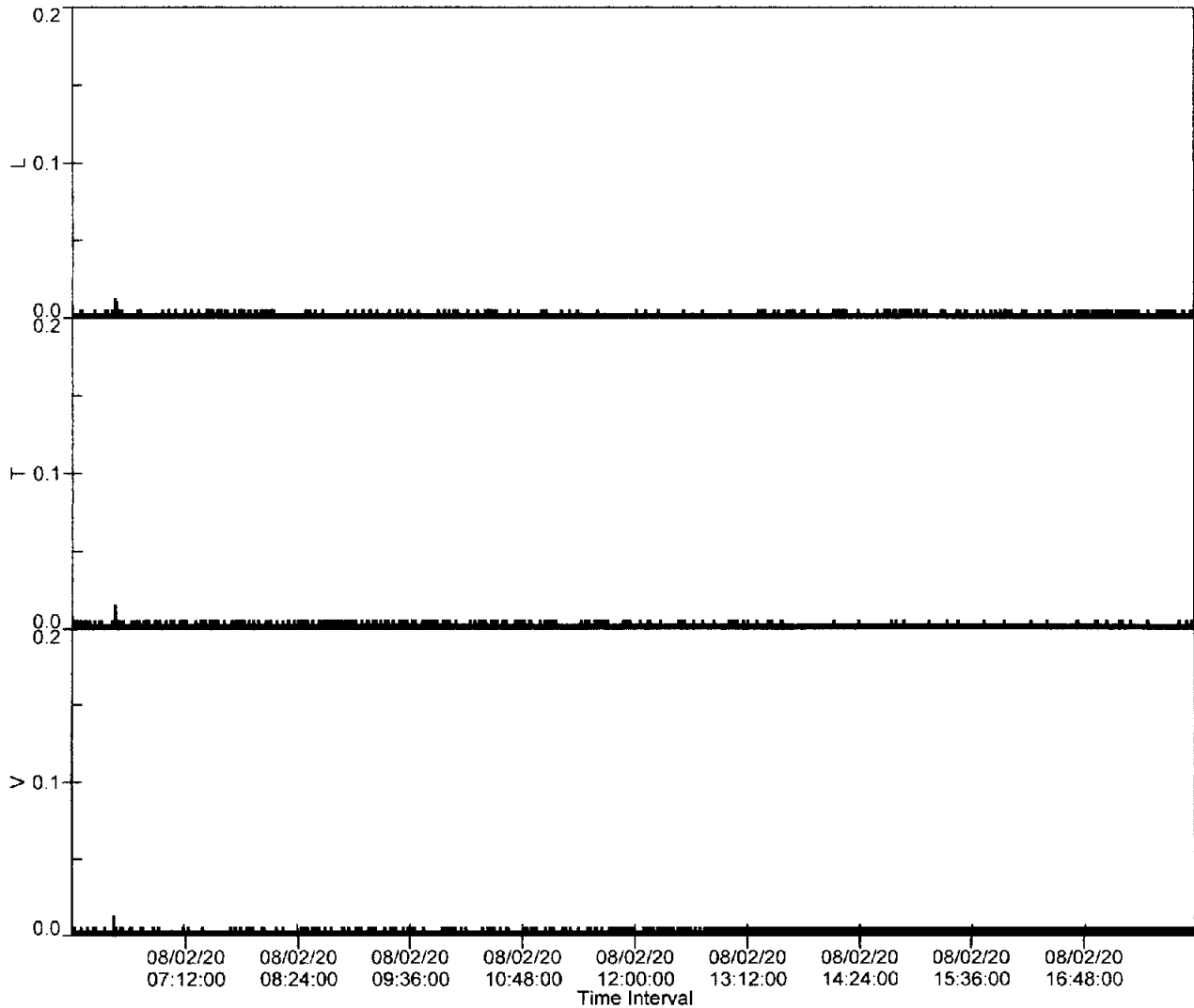
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 05/09/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 8336 Event: 14

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



SN: 5259 v3.67
Date: 07/20/2020 **Time:** 06:01:00
Event: 15
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.2	2.6	.3
Peak Air Pressure:	76 db		

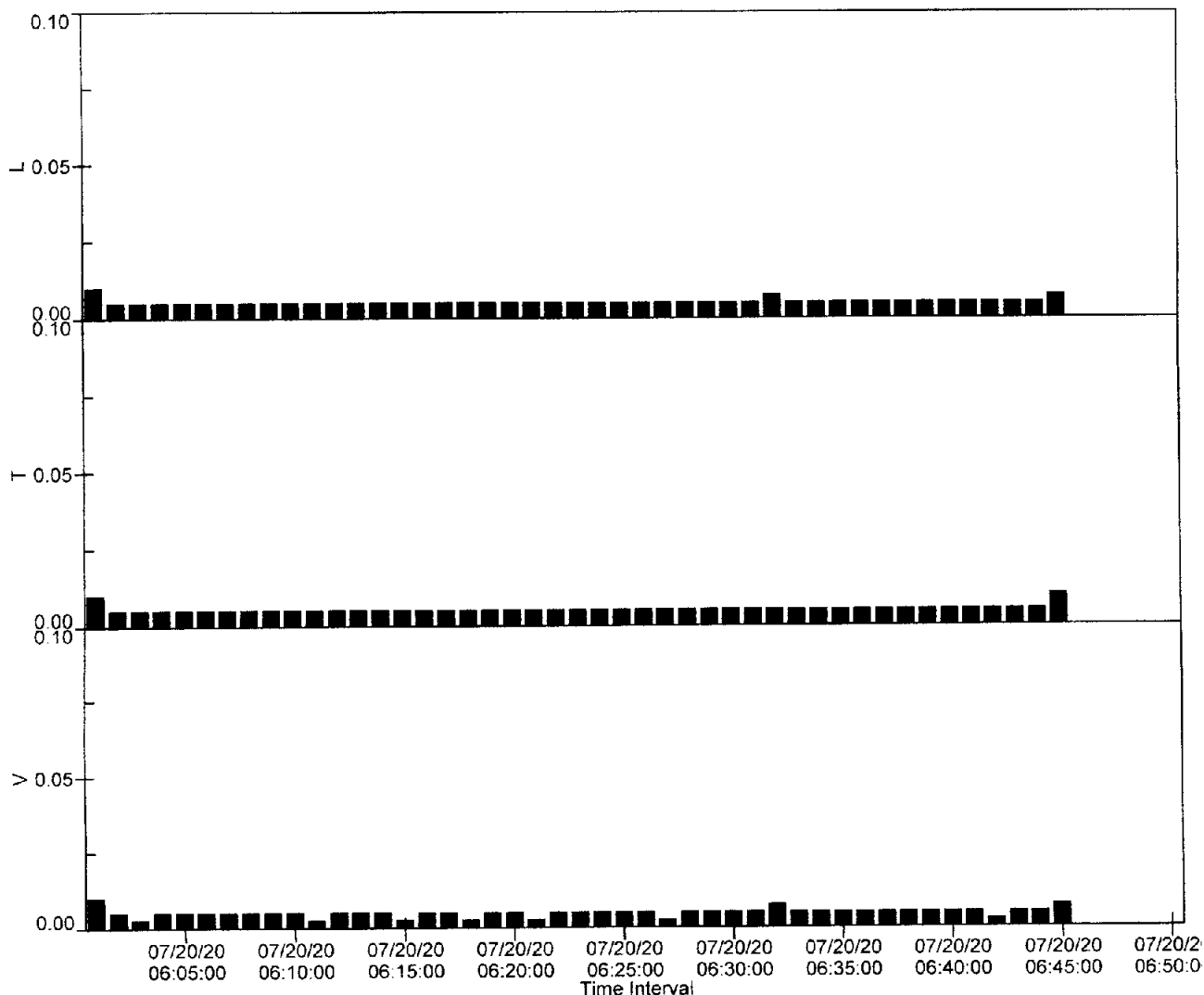
Recording Time: 45 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 15

Record Max PPV: 0.010 in/s Record Max DB: 76 db



SN: 5259 v3.67
Date: 07/21/2020 **Time:** 06:01:00
Event: 2
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.145	0.083	0.133
FREQ (Hz)	100.0	62.5	50.0
Peak Air Pressure:	78 db		

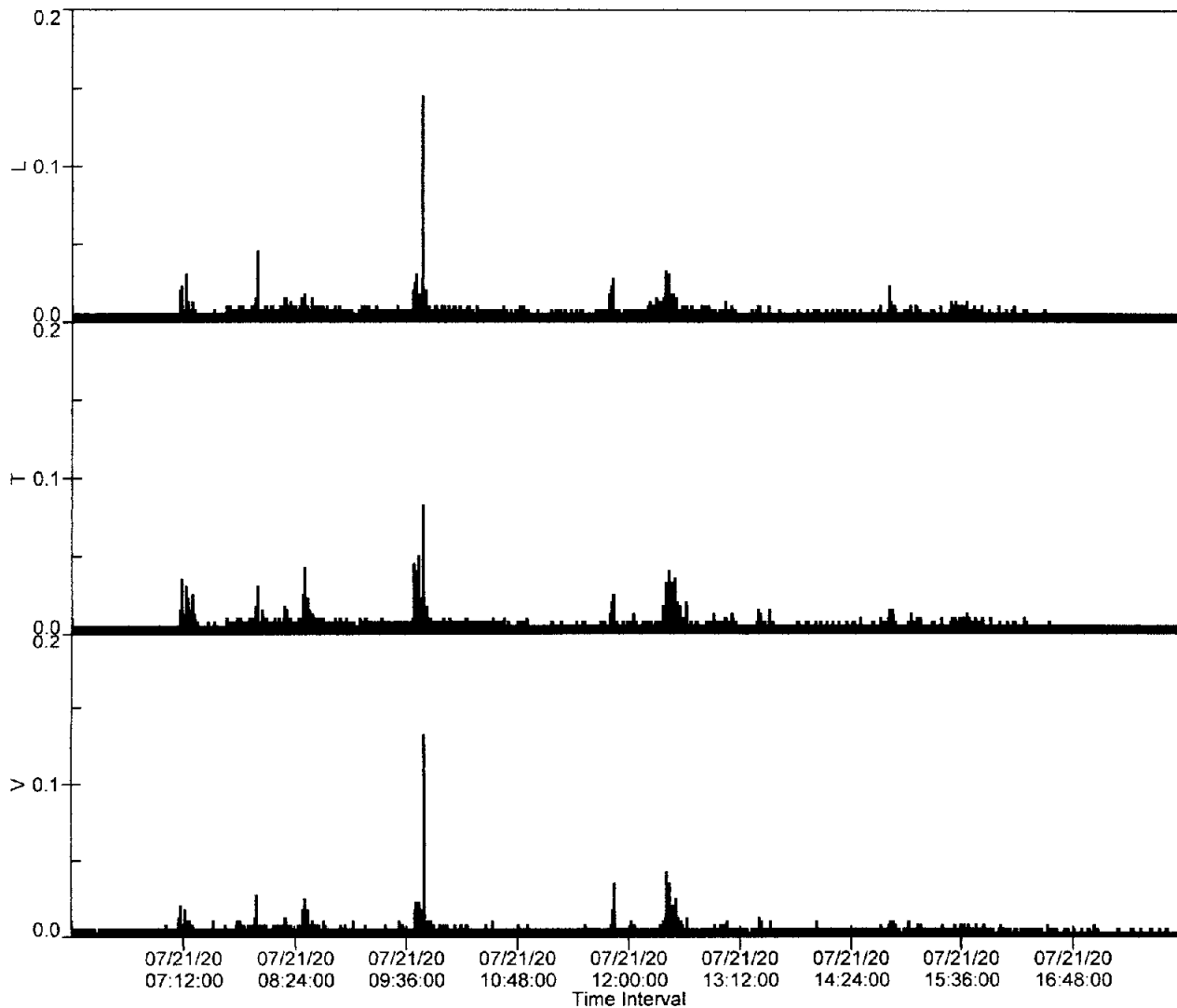
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 2

Record Max PPV: 0.145 in/s Record Max DB: 78 db



SN: 5259 v3.67
Date: 07/22/2020 **Time:** 06:01:00
Event: 3
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

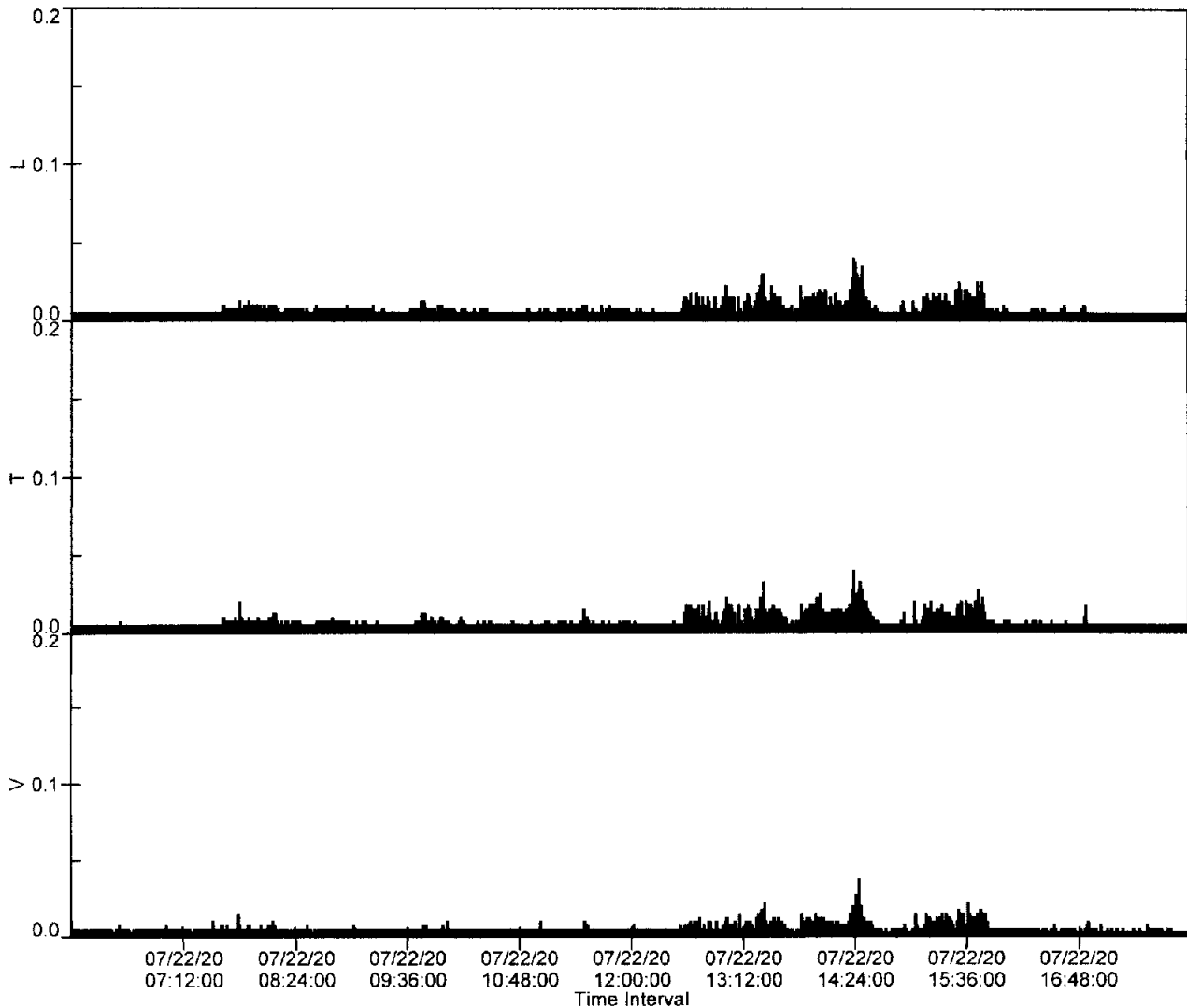
	L	T	V
PPV (in/s)	0.040	0.040	0.038
FREQ (Hz)	11.9	18.5	17.2
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 3

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



SN: 5259 v3.67
Date: 07/23/2020 **Time:** 06:01:00
Event: 4
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

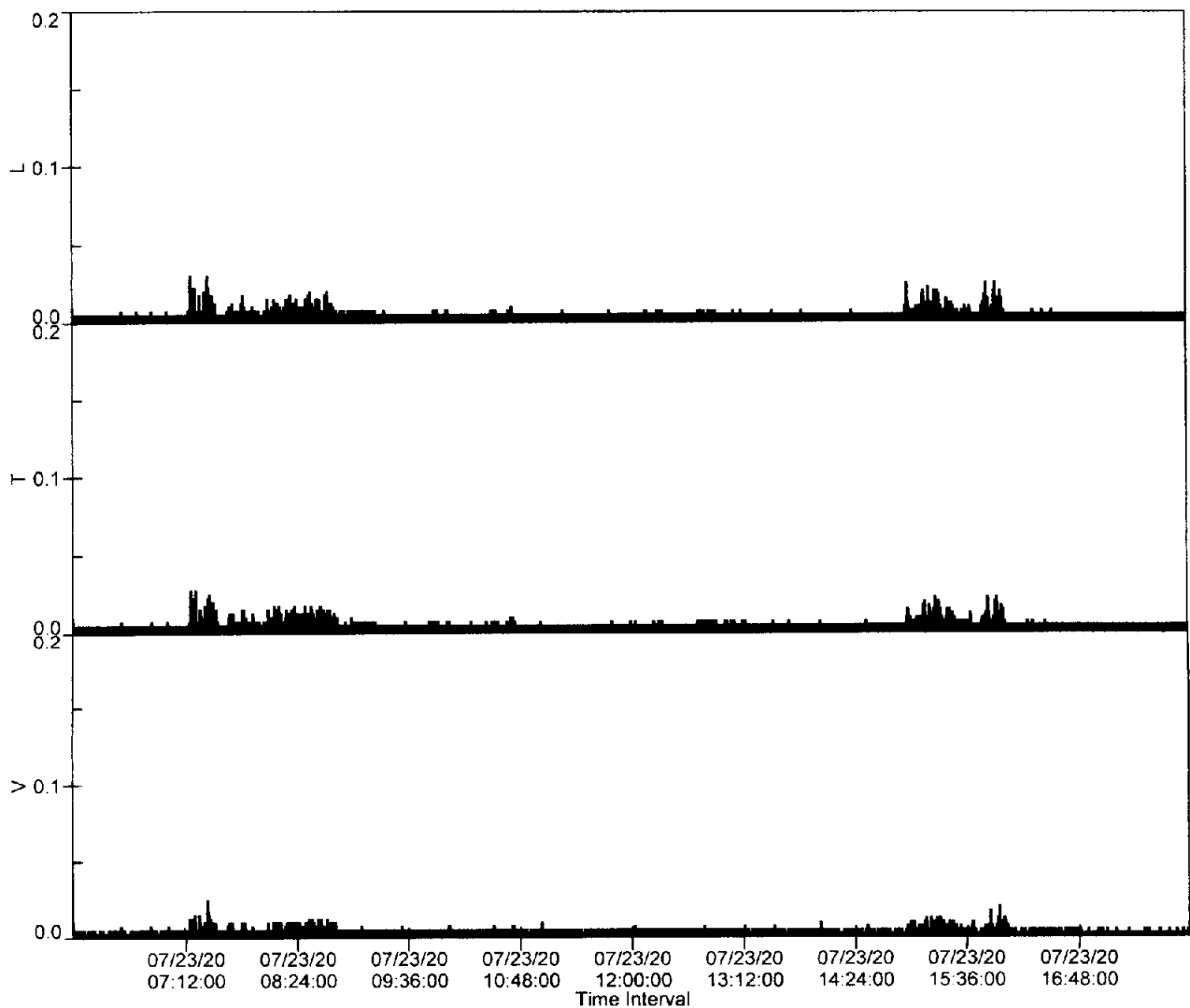
	L	T	V
PPV (in/s)	0.030	0.028	0.025
FREQ (Hz)	27.8	25.0	31.3
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 4

Record Max PPV: 0.030 in/s Record Max DB: 78 db



SN: 5259 v3.67
Date: 07/24/2020 **Time:** 06:01:00
Event: 5
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.073	0.023	0.043
FREQ (Hz)	71.4	100.0	83.3
Peak Air Pressure:	78 db		

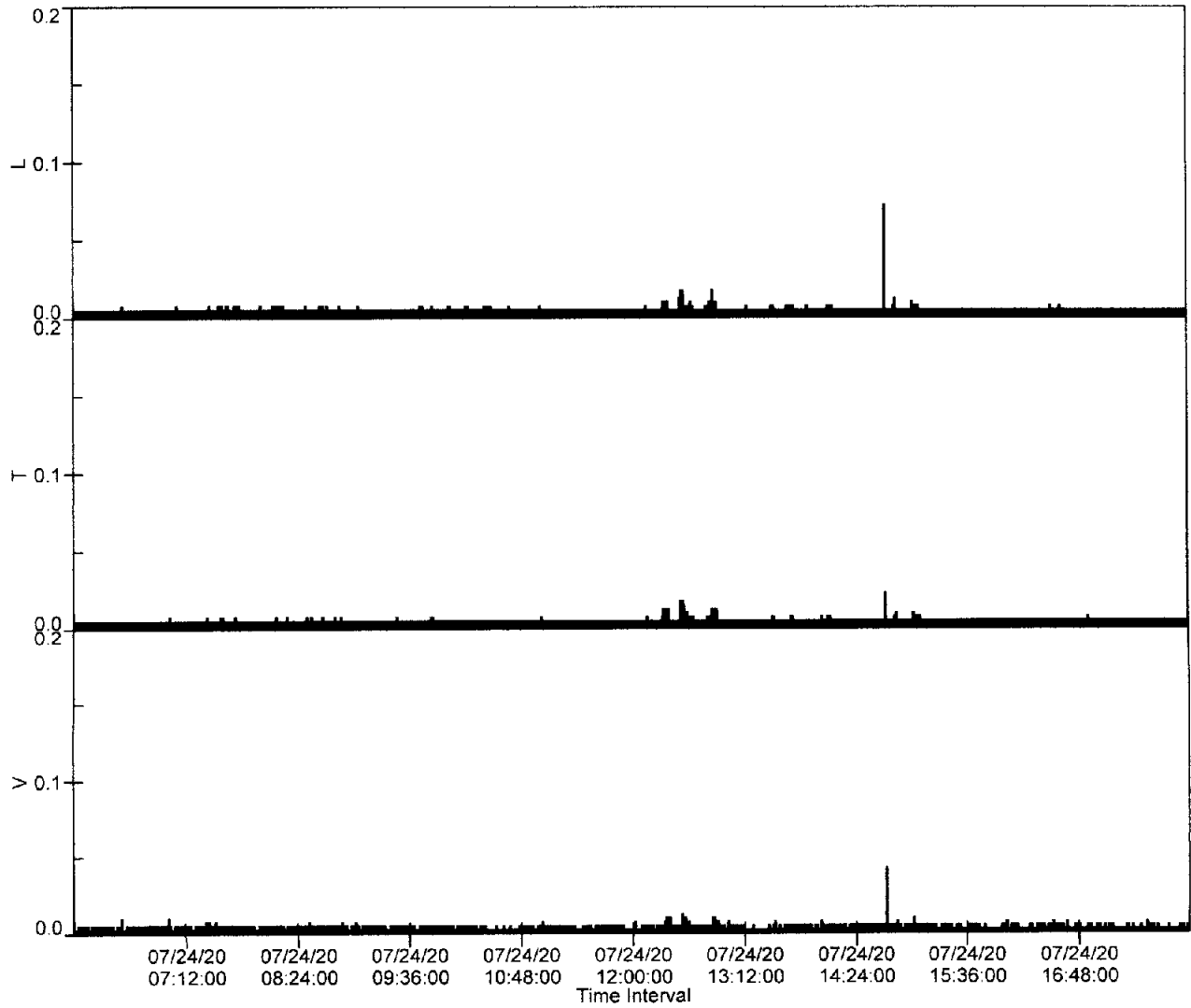
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 5

Record Max PPV: 0.073 in/s Record Max DB: 78 db



SN: 5259 v3.67
Date: 07/25/2020 **Time:** 06:01:00
Event: 6
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.035	0.038	0.025
FREQ (Hz)	20.0	26.3	27.8
Peak Air Pressure:	78 db		

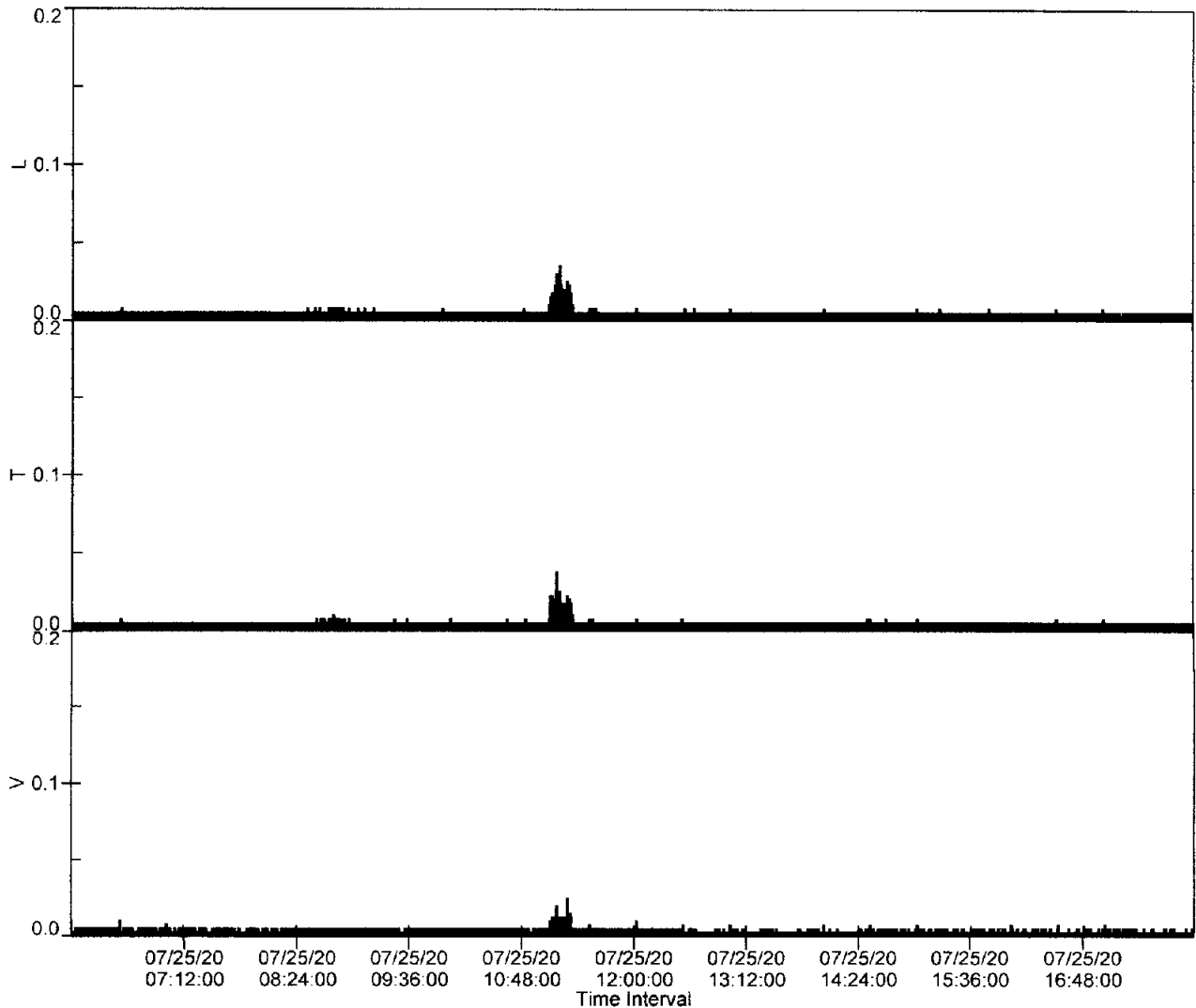
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 6

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



SN: 5259 v3.67
Date: 07/26/2020 **Time:** 06:01:00
Event: 7
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

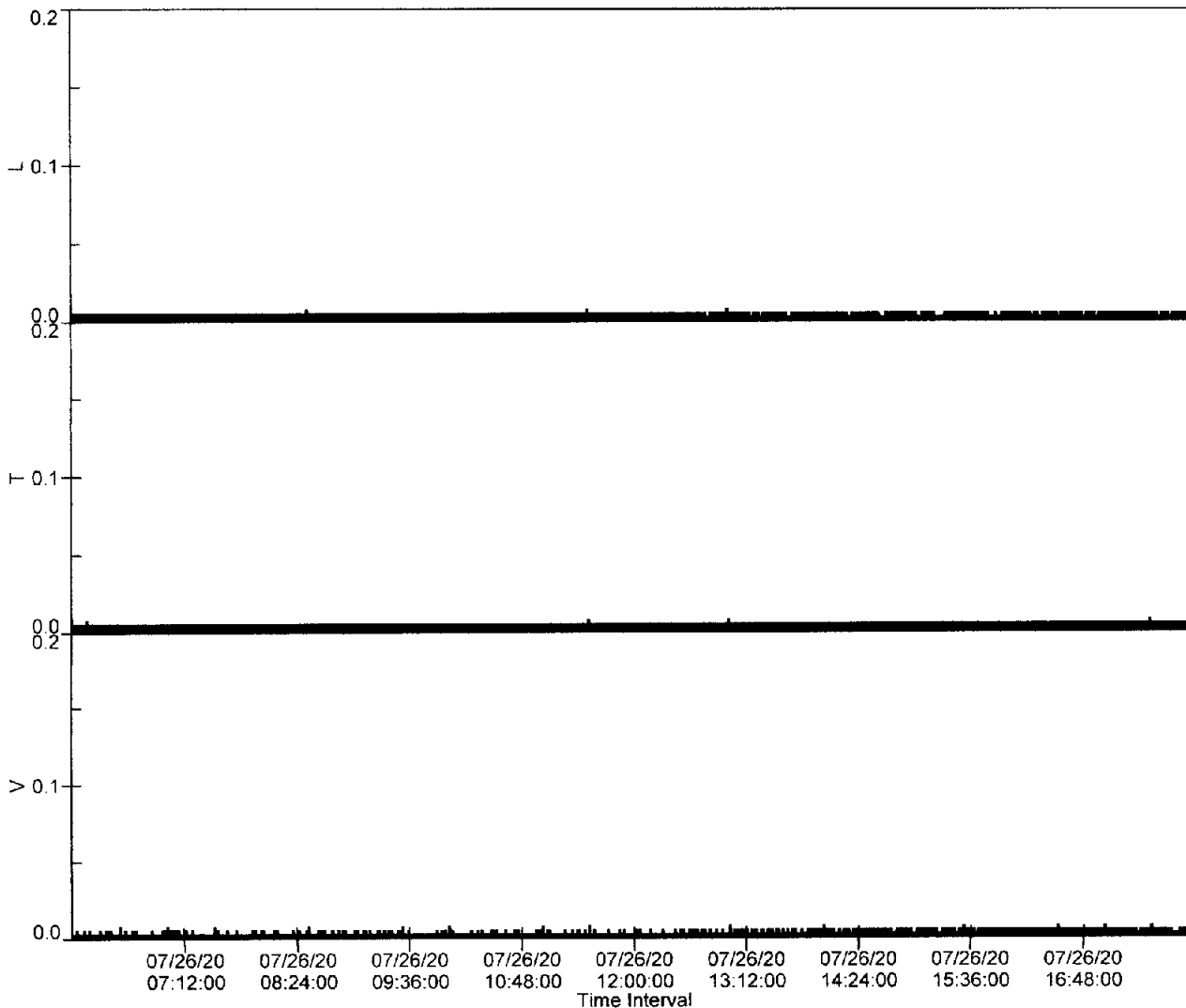
	L	T	V
PPV (in/s)	0.010	0.010	0.008
FREQ (Hz)	.3	13.9	.3
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 7

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



SN: 5259 v3.67
Date: 07/28/2020 **Time:** 06:01:00
Event: 9
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

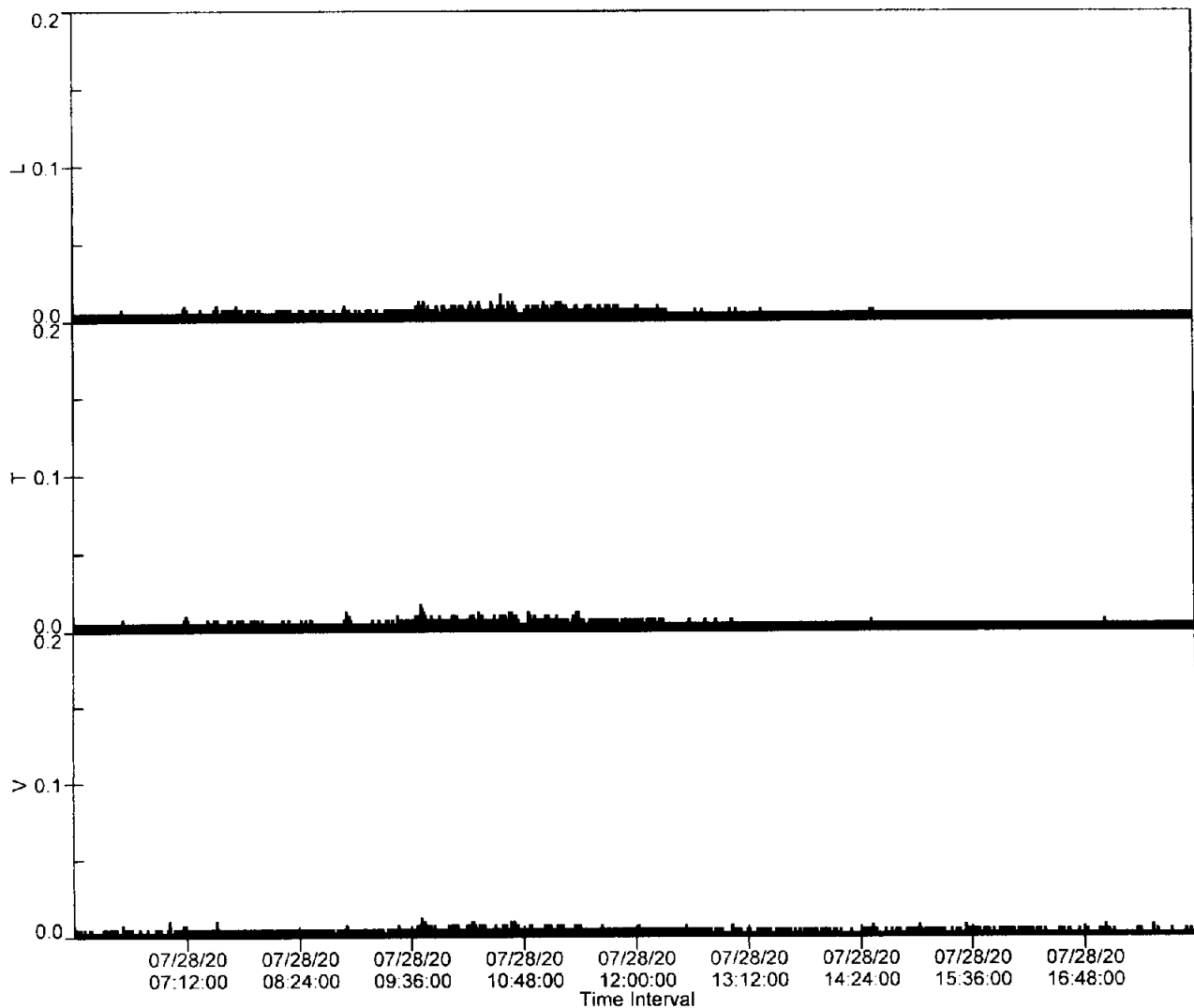
	L	T	V
PPV (in/s)	0.018	0.018	0.013
FREQ (Hz)	14.3	22.7	22.7
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 9

Record Max PPV: 0.018 in/s Record Max DB: 78 db



SN: 5259 v3.67
Date: 07/29/2020 **Time:** 06:01:00
Event: 10
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNRP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.040	0.035	0.028
FREQ (Hz)	18.5	20.8	23.8
Peak Air Pressure:	78 db		

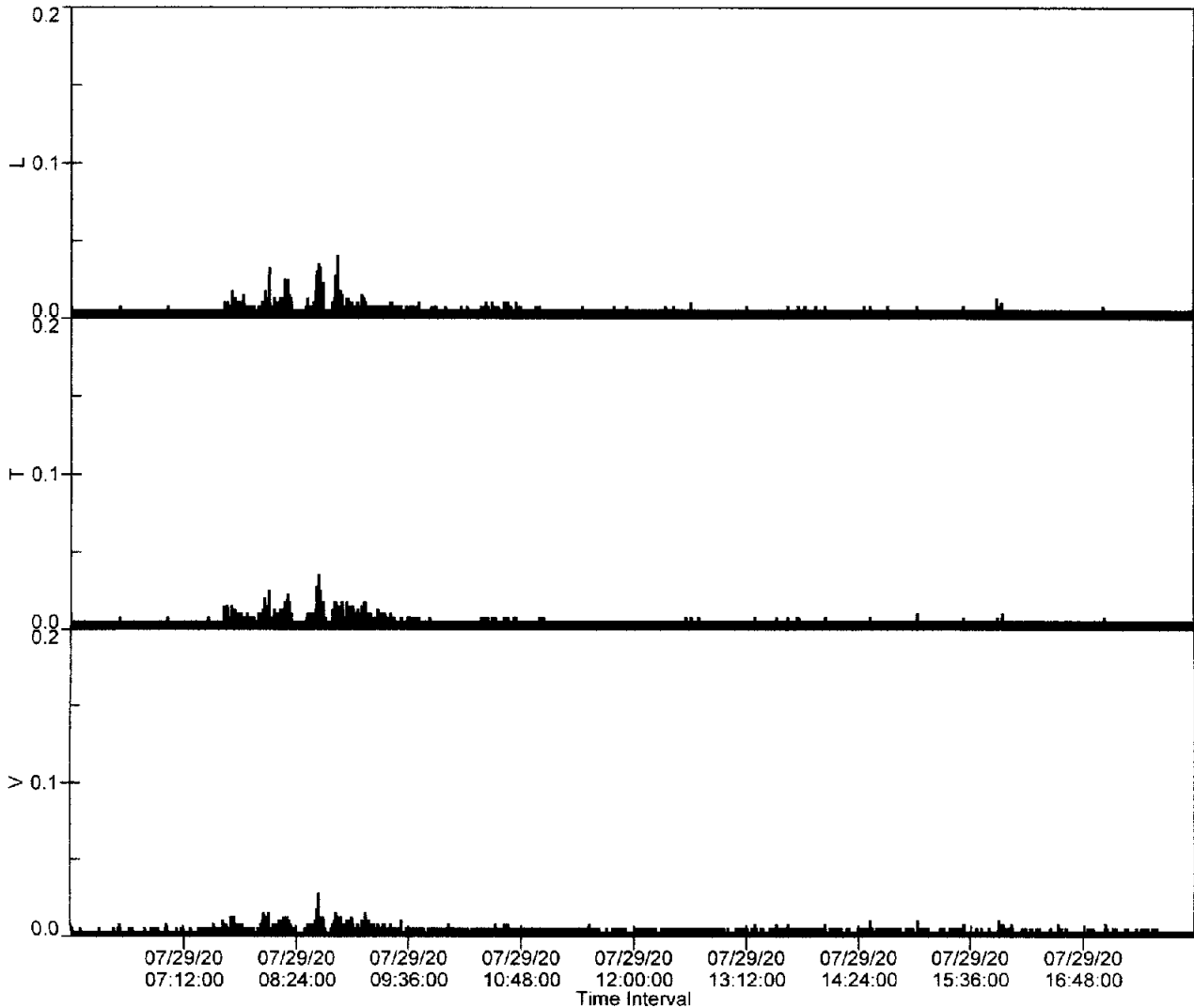
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 10

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



SN: 5259 v3.67
Date: 07/30/2020 **Time:** 06:01:00
Event: 11
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNSP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

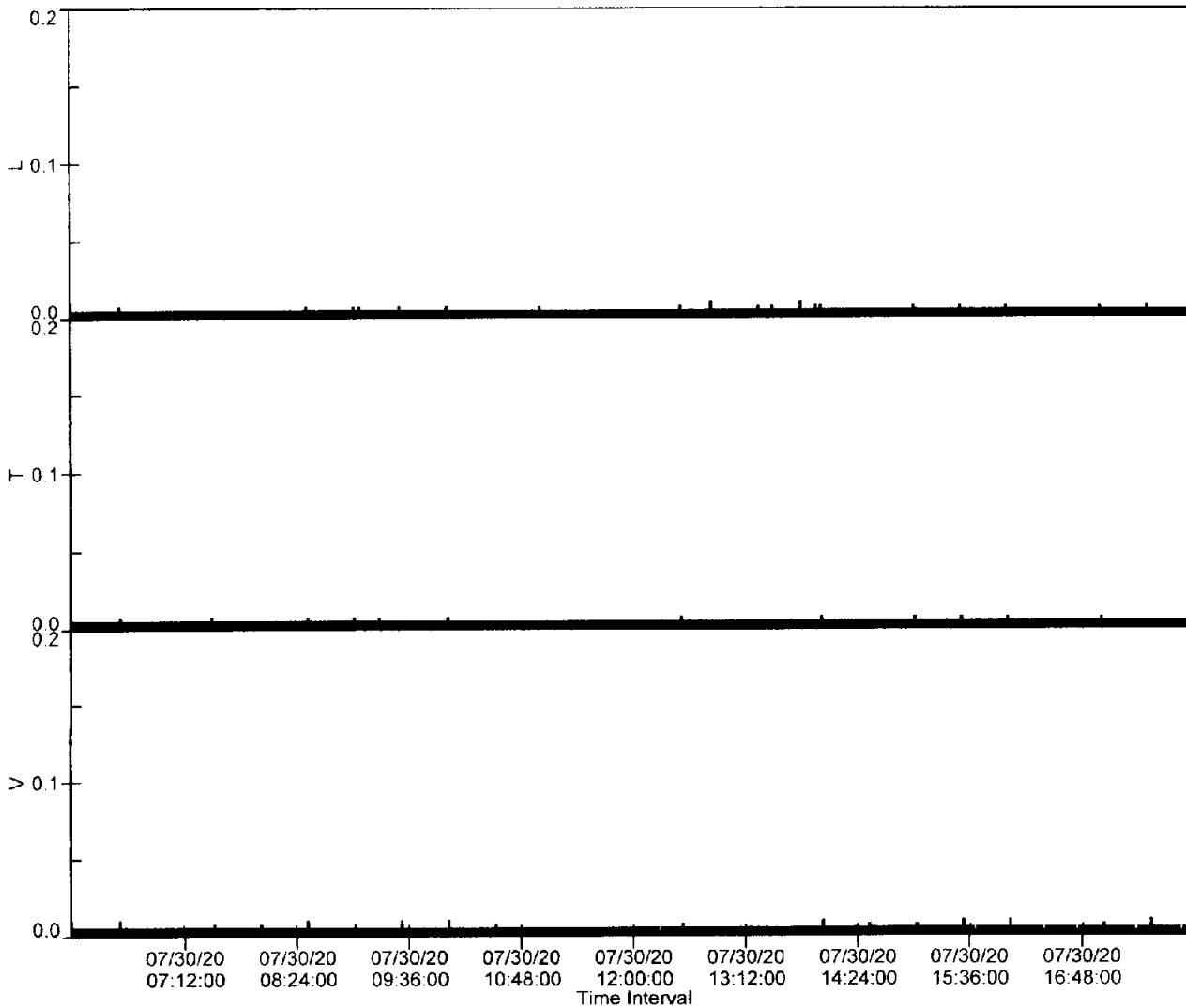
	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	8.2	.3
Peak Air Pressure:	78 db		
Recording Time:	718 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 11

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



SN: 5259 v3.67
Date: 07/31/2020 **Time:** 06:01:00
Event: 12
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.018	0.018	0.013
FREQ (Hz)	20.0	27.8	21.7
Peak Air Pressure:	78 db		

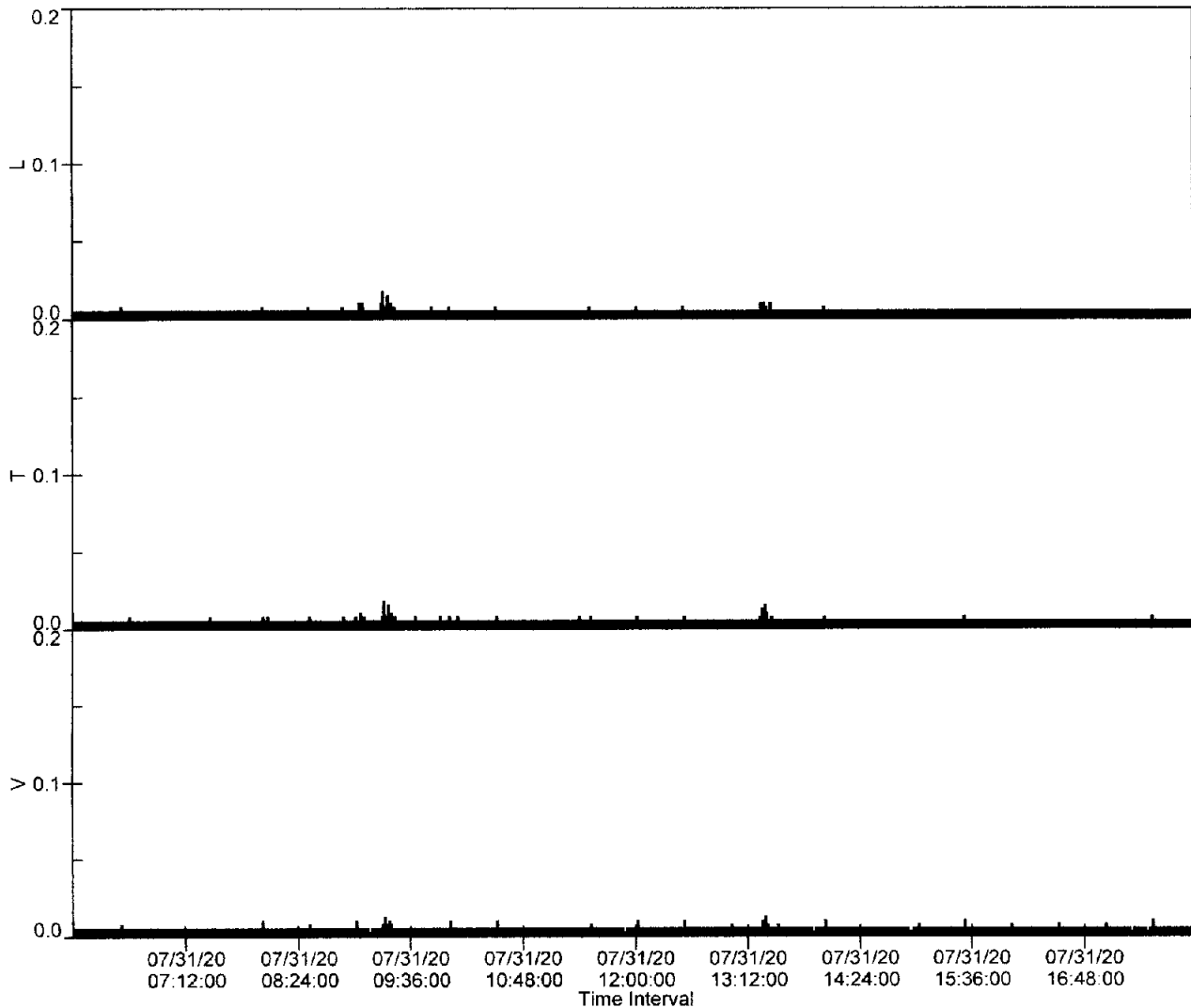
Recording Time: 718 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 12

Record Max PPV: 0.018 in/s Record Max DB: 78 db



SN: 5259 v3.67
Date: 08/01/2020 **Time:** 06:01:00
Event: 13
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNSP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

**Continuous Monitor Recording
Summary Data**

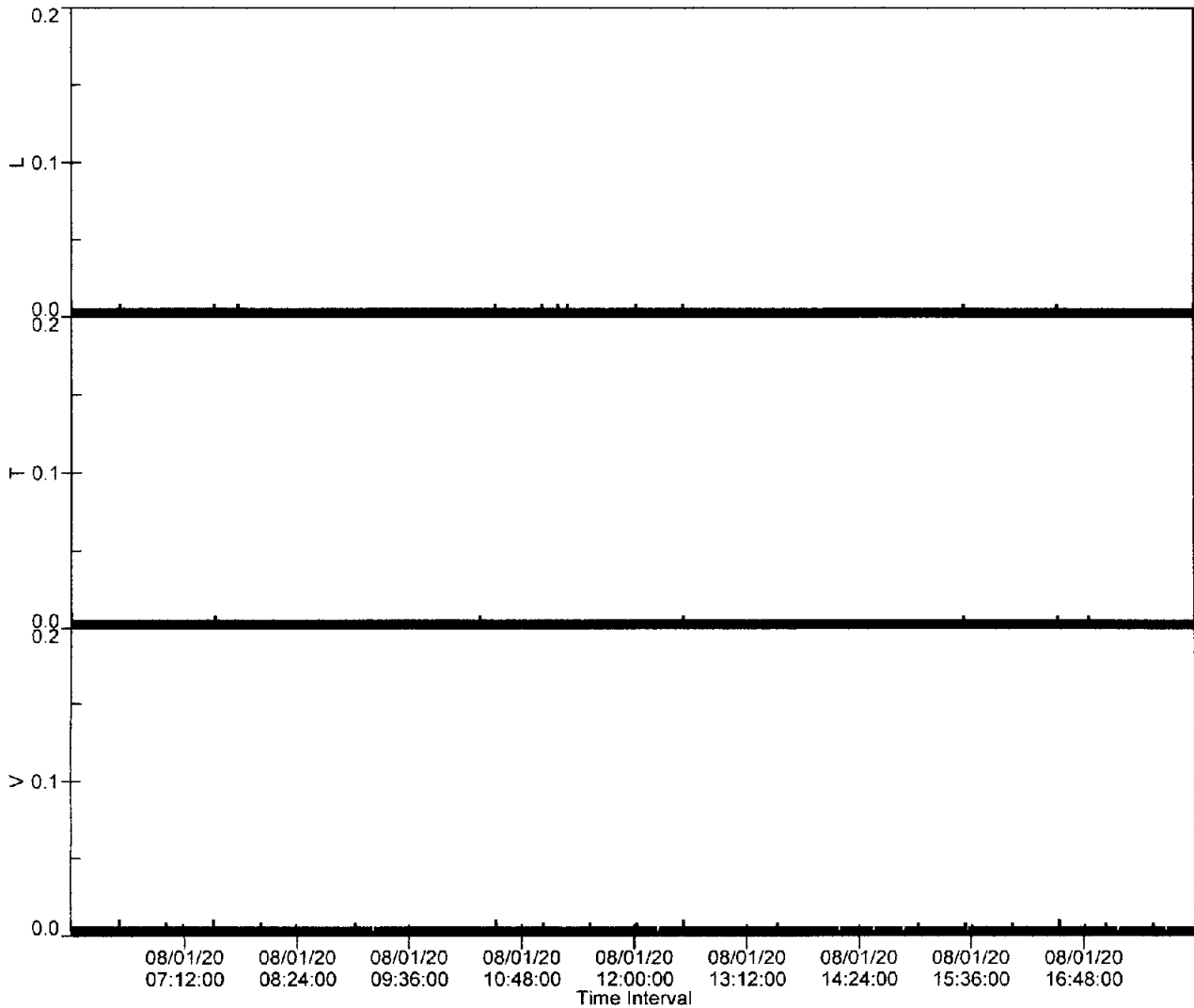
	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.2	4.6	.3
Peak Air Pressure: 78 db			
Recording Time: 718 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 13

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



SN: 5259 v3.67
Date: 08/02/2020 **Time:** 06:01:00
Event: 14
Client: BERGER CONST
Operation: EXCAVATION
Location: #9 WSNP
Distance: 15.
Operator: CTI INC
Comment: SW CORNER

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.010	0.010	0.010
FREQ (Hz)	.3	1.9	250.0
Peak Air Pressure:	78 db		

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

Additional Info:

Shaketable Calibrated: 01/23/2019
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL.: 724.934.2900 FAX: 724.934.2999

SN: 5259 Event: 14

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

