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December 20, 2023
Project No. RD7948

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Original will remain on file

WSP E&I Canada Limited
#401, 1925 – 18th Avenue NE
Calgary, Alberta
T12E 7T8

ATTN: Joshua Strukoff, P.Eng.

Re: Vibration Monitoring Summary
Willow Estates Flood Berm
Drumheller, Alberta

Dear Mr. Strukoff.

1.0 INTRODUCTION

The Drumheller Resiliency and Flood Mitigation (DRFM) Office is constructing or upgrading several flood berms for communities in the Town of Drumheller, Alberta. The DRFM Program includes the upgrade of the existing flood berm around the neighborhood of Willow Estates in east Drumheller. The Willow Estates Flood Berm project is being designed and managed by WSP E&I Canada Limited. (WSP); acting on behalf of the DRFM Office. The construction work has been contracted to Wilco Contractors Southwest Ltd. of Calgary, Alberta. ParklandGEO Ltd. (ParklandGEO) was contracted by WSP to provide vibration monitoring during the berm construction. undertaken in the Fall of 2022 and Spring of 2023. The following is the summary report of the vibration monitoring program.

2.0 VIBRATION AND NOISE MONITORING PROGRAM

2.1 SCOPE OF WORK

The vibration monitoring program for this project consisted of four components:

1. **Pre-Construction Inspections.** All owners of structures within 30 m of the proposed construction area were offered inspections to document the condition of the interior structures and finishes prior to construction. This inspection included recorded visual observations and photographs. This program was provided on an owner opt-in basis.

2. **Ongoing Construction Vibration Monitoring.** Ground vibration monitoring was undertaken at Willow Estates Flood Berm during the construction period to document and control the risk of potential structural damage to nearby structures and infrastructure due to vibration level during construction activities. Field data for vibration and noise monitoring and was collected during the construction activities in Fall of 2022 and Spring of 2023.
3. **Investigation of Concerns During Construction.** The DRFM Office maintained a communication log with the local residents. Concerns and complaints about construction vibration impacts registered from Willow Estates residents were relayed to WSP and ParklandGEO for investigation. Typical investigation activities included moving monitoring equipment to the site and visual inspection of the structures for potential impacts and damage related to construction activities. Individual investigation comments were provided to each resident that registered a concern.
4. **Post-Construction Inspections.** Post-construction inspection were undertaken for all structures where owners had registered a concern about construction vibration area; and a consented to the inspection. This inspection included recorded visual observations and photographs, focusing on the areas of concern with comparisons pre-construction inspection and construction investigation information where available. Individual responses were provided to each resident that registered a concern.

2.2 MONITORING SETUP AND EQUIPMENT

The equipment used for vibration and noise monitoring were 8 Channel InstanTel Blastmate III vibration monitoring devices (Blastmate), capable of taking readings from two separate geophones at the same time. This equipment provides a continuous reading of peak particle velocities (PPV) and frequencies. PPV readings are taken and recorded to the Blastmate memory every 5 seconds. The recorded vibration data is then downloaded at the end of construction each day. The devices were also fitted with microphones, which allowed for noise monitoring of peak sound intensities.

During the construction activities at Willow Estates Flood Berm project in the Fall of 2022 and Spring of 2023, one to three Blastmate units were used to continuously monitor the peak particle velocities (PPV) during all periods of construction activities. The geo-phones were set up at representative locations and varying distances away from the construction activities. In most cases the sensors were placed closer to the construction than the nearest building. In some specific cases monitors were set near structures as part of the investigation process related to resident concerns. A summary table for the vibration and noise monitoring results for Fall of 2022 and Spring of 2023 is attached to this letter.

The purpose of vibration monitoring programs was not to determine the level of vibration being experienced at any given house or commercial structure. Each day the monitoring equipment was set up at representative sites to measure vibration levels at two points between the nearest structure and the construction activity. The distances were varied day-to-day to provide data on the relationship between vibration and distance from the source.

2.3 MONITORING CRITERIA

Vibration monitoring measures the peak particle velocity (PPV) and frequency of vibration related to nearby construction activity such as, pile driving, excavation and subgrade compaction. The PPV is measured by the Blastmates in the transverse, vertical and longitudinal directions. Vertical amplitude is generally representative of the vibration in all three directions and is often used to assess potential vibration damage. Alternatively, the largest of the three perpendicular PPV components could be selected. For the purposes of this review the largest of the three perpendicular PPV components is summarized. The PPV is plotted against the frequency of the vibration. The typical range of frequency for the construction activities on this project was between 10 Hz and 30 Hz.

The Town of Drumheller does not have a specific vibration monitoring criteria for structural damage related to construction activity. For the purposes of vibration monitoring the vibration thresholds used for this project were developed by the United States Bureau of Mines: Office of Surface Mining, Reclamation and Enforcement (OSMRE) were used. These thresholds were developed from studies of building damage due to vibration from blasting at mines. The OSMRE thresholds from the OSMRE Guidelines are provided on Figure 1. This plot format has also been used for presentation of all Blastmate data on this project.

During the investigation of registered resident concerns, the construction vibration criteria promoted by Federal Transit Administration (FTA 2018) was also consulted. The FTA criteria provides PPV vibration limits for four different building categories. The most applicable building category for the typical houses in Willow Estates was “Non-Engineered Timber and Masonary Building” which had a construction threshold of 5.1 mm/s for all frequency ranges.

It is important to understand that all vibration criteria are basically opinions on threshold values for the purposes of reporting and monitoring construction activity. The typical criteria are inherently conservative since they are intended to identify and avoid activities that could result in damage to nearby structures and infrastructure before the structures experience damage. Exceeding these thresholds does not imply that either cosmetic or structural damage should be expected. This is especially true for occasional exceedances which are typical to the construction process and usually attributed to non-construction related activities (e.g. moving and inadvertently bumping monitors).

Even when vibration levels are not severe enough to cause cosmetic or structural damage, they can cause negative human responses which may result in complaints. Observed movement of wall hangings and vibrating of dishes in cupboards related to nearby construction activity, without accompanying signs of damage (i.e. cracks) is not a sign that cosmetic damage is occurring.

2.4 REFERENCES

1. “Blasting Guidance Manual”, Rosenthal and Morlock, Office of Surface Mining, Reclamation and Enforcement (OSMRE), United States Department of the Interior, 1987.
2. “Blasting Effects and Their Control in Open Pit Mining”, Oriard, et al, Proceedings - Second International Conference on Stability in Open Pit Mining, 1972.
3. “Transit Noise and Vibration Impact Assessment Manual”, FTA Report No. 0123 (2018), U.S. Department of Transportation, Federal Transit Administration

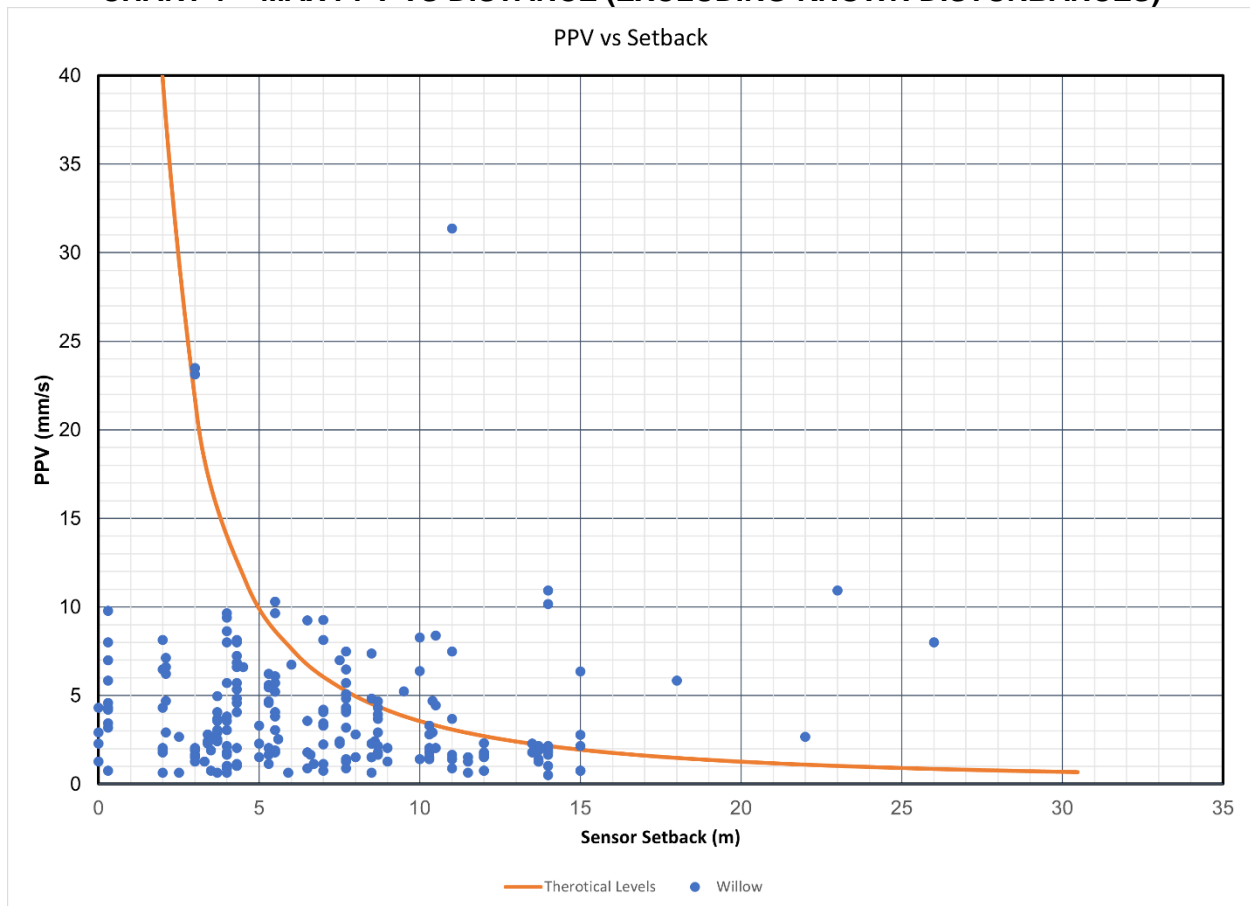
3.0 VIBRATION AND NOISE MONITORING DISCUSSION

3.1 GENERAL VIBRATION OBSERVATIONS

The observed ground vibration amplitudes expressed in terms of PPV reduced as the distance from the construction increased. The exceptions to this observation were localized, anomalous readings that were caused by disturbance or non-construction related vibrations from other sources near the sensor. A typical anomalous disturbance would be moving or accidentally bumping the Blastmate. These unusual disturbances were typically isolated (i.e, not sustained) and can be easily identified on units with two geophones, when a large spike in vibration is only observed on one of the two geophone sensors. Another kind of event can result in anomalous reading is when work take place closure to the sensor than expected as the set back distances shown in Chart 1 are referenced to the berm. Activities occurring closer to a sensor can produce large readings that quickly dissipate and are expected to be non-damaging to the surrounding structures. Vibratory compaction and construction activities between sensors spaced 3 m apart typically experience a 30 to 50 percent reduction in PPV. Suspected anomalous disturbances have much larger reductions of PPV between sensor in the order of 75 to 90 percent.

Chart 1 provides a summary of the recorded maximum daily directional PPV versus horizontal distance from construction activities excluding those reading believe to be caused by sensor disturbances.

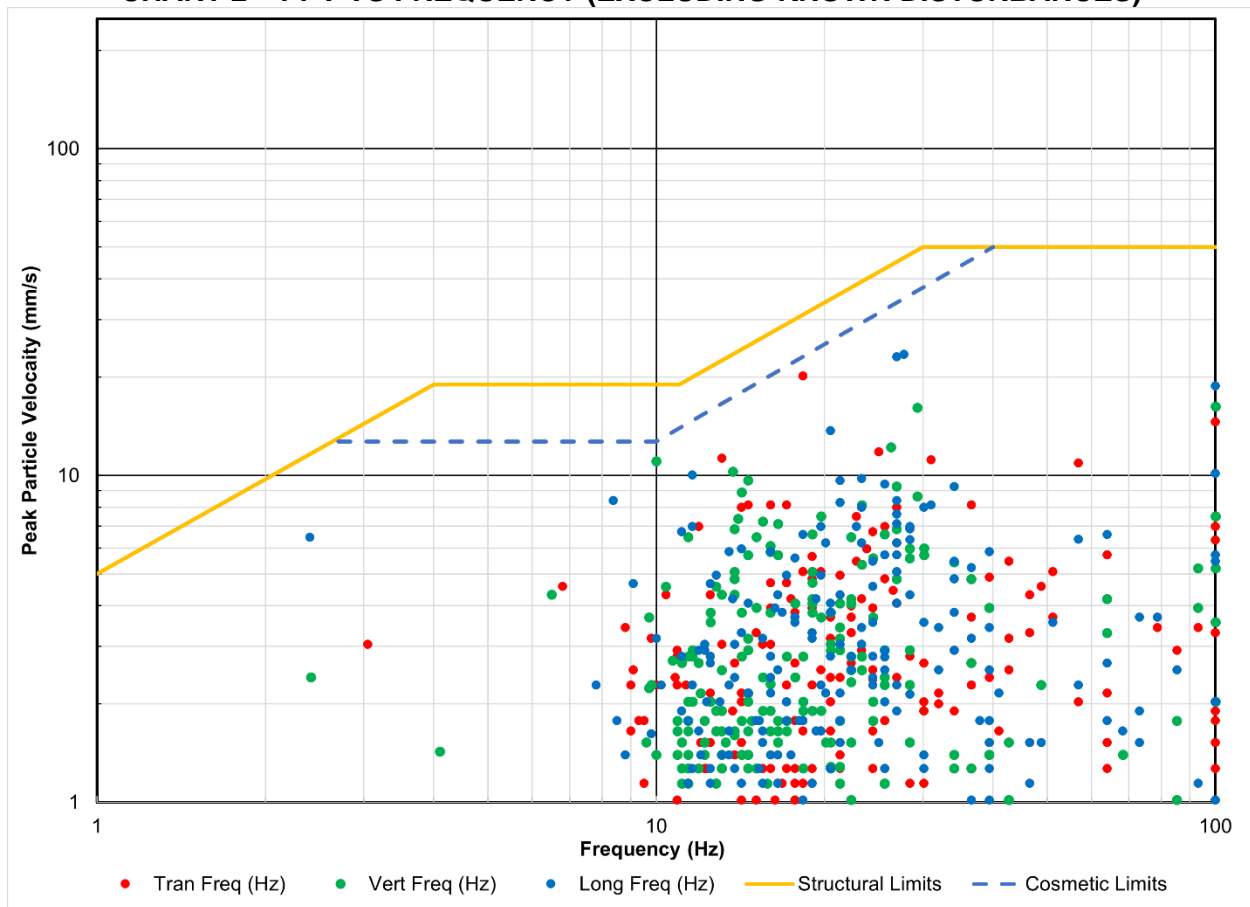
CHART 1 – MAX PPV VS DISTANCE (EXCLUDING KNOWN DISTURBANCES)



This data has been corrected to remove suspected or verified anomalous readings. The chart also shows the theoretical expected PPV for vibratory compaction equipment for various distances calculated based on the method described in the FTA Guide. This distribution shows a relatively good relationship between the theoretically expected PPV and actual vibration versus distance from operating vibratory compaction equipment.

Chart 2 shows the highest daily measured PPV values from all three perpendicular directions (longitudinal, transverse, and vertical) graphed against the vibration frequency and the threshold limits given by USBM and OSMRE.

CHART 2 – PPV VS FREQUENCY (EXCLUDING KNOWN DISTURBANCES)



Out of 750 data readings during the construction period, there were 22 data records of PPV exceeding 25.4 mm/s and 28 records of PPV exceeding 12.5 mm/s. These large vibrations were considered to be caused by disturbances to the sensor based on the isolated occurrences and comparison to the PPV recorded in the second sensor which was usually 3 to 3.5 m away. Once the suspect disturbances are removed, the PPV values for the project fall within OSMRE limits. Almost all PPV readings taken from monitoring points at least 10 m from the construction vibration source below 5 mm/s. The following additional comments are provided for consideration:

1. In general, the highest vibrations were recorded nearest to the berm toe with peak PPV values decreasing below 5 mm/s at a distance of about 10 m from the berm toe.

2. On some days the geophones may be closer to houses, but general observations and data review verified vibration levels experienced by any given structure was less than the vibration level measured on the closest geophone located nearer to the construction.
3. The house structures adjacent to the construction area in Willow Estates were located an average of 13 m from the boundary of the construction area. The vibration levels resulting from the construction activities at the Willow Estates Flood Berm project in the Fall of 2022 and Spring of 2023:
 - would have been noticeable in the adjacent houses.
 - Could have periodically been at levels high enough to cause cosmetic damage in some of the most sensitive structures; and,
 - were unlikely to have been high enough to cause structural damage in any of the houses.

It should be restated that the reported values in the Charts above and the attached summary table are the peak values from the date of recording. Detailed vibration data for any specific date can be provided, upon request.

4.0 INSPECTION AND INVESTIGATIONS

As a part of this vibration monitoring program pre-inspections were performed for 16 house structures in Willow Estates. Between the beginning and end of construction period 6 houses were subject to investigation to address logged resident concerns about construction vibration impact on their houses. Investigation information and/or post construction inspection letters were requested for the following addresses:

- 2 Willow Point
- 10 Willow Point
- 20 Willow Point
- 24 Willow Point
- 30 Willow Point
- 32 Willow Point
- 34 Willow Point

Additional information can be provided upon request.

5.0 LIMITATIONS AND CLOSURE

This vibration monitoring summary report is based on the field observations and vibration and noise monitoring program undertaken during the construction activities for the Willow Estates Flood Berm project located in Drumheller, Alberta. This report has been prepared for the exclusive use of **The Town of Drumheller, the Drumheller Resiliency and Flood Mitigation Office, WSP E&I Canada Limited** and their approved agents for the specific application of vibrations and noise monitoring for the proposed Willow Estates Flood Berm project in Drumheller, Alberta. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. This report has been prepared in accordance with generally accepted engineering practices. No other warranty is made either express or implied.

We trust that this report meets with your current requirements. If there are any questions, please contact our office.

Respectfully submitted,
PARKLANDGEO LTD.



Timothy Hoehne, E.I.T.
Geo-Materials Engineer-in-Training

Mark Brotherton, P.Eng.
Principal Geotechnical Engineer
Responsible Member

Reviewed by

APEGA Permit P007312

Scott Furlong, P.Eng.
Responsible Member

Attachments:

Figure 1: Vibration Assessment
Table 1: Test Results Summary
Raw Data – Monitor Locations

FIGURE 1: STRUCTURAL AND COSMETIC THRESHOLDS FOR VIBRATION (USBM & OSMRE)

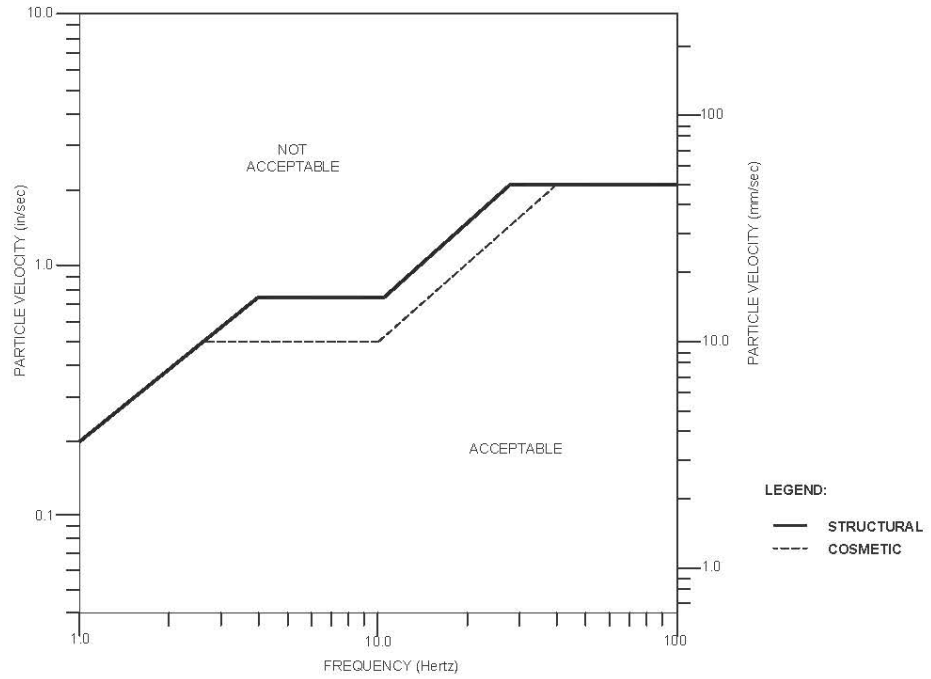
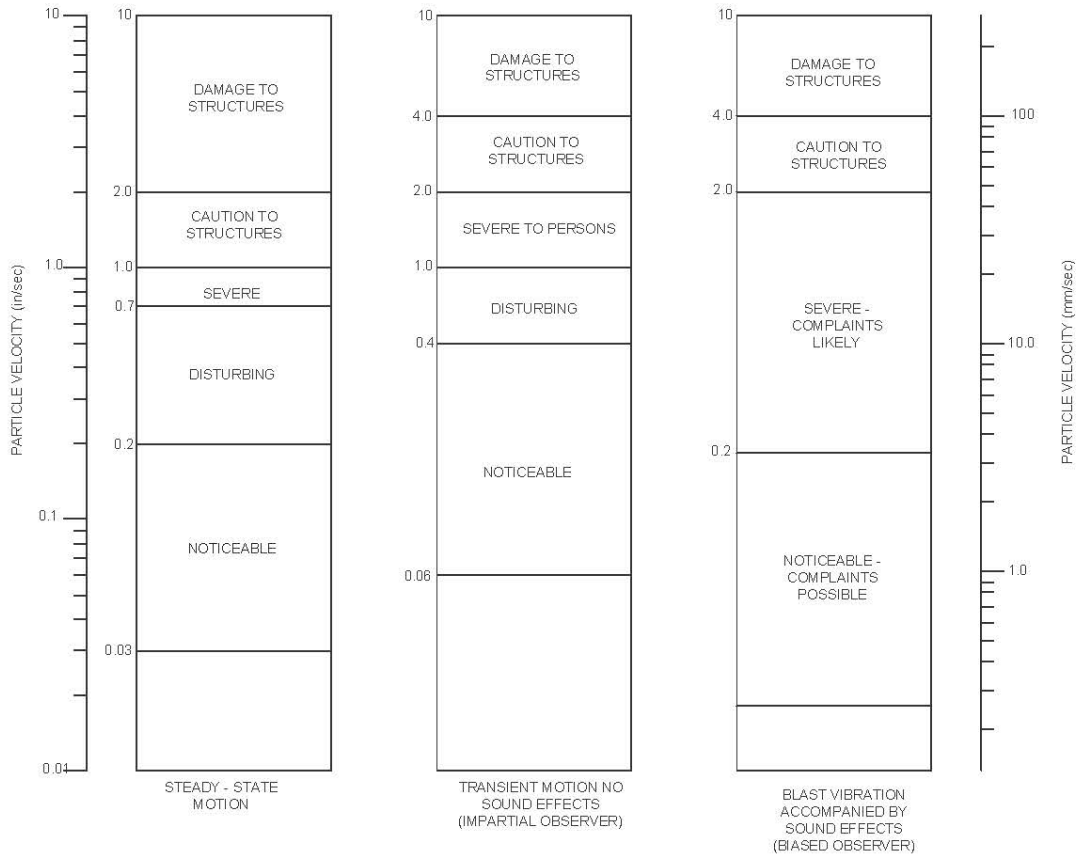


FIGURE 2: HUMAN RESPONSE TO VIBRATION (ORIARD, 1972)



	CLIENT:		VIBRATION ASSESSMENT GUIDELINES		
	wsp		WILLOW ESTATES DRUMHELLER, ALBERTA		
	DRAWN: TH	CHK'D.: SF	REV #: 1	DATE: September 2023	
	SCALE: NA		JOB NO. RD7948	DRAWING NO. FIGURE 1	

**TABLE 1 - Peak Particle Velocity Summary
RD7948 - Willow Estates Berm**



Date	Unit Number	Sensor Setback	Location	Latitude	Longitude	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS (mm/s)	Tran Freq (Hz)	Vert Freq (Hz)	Long Freq (Hz)	Comments
3-Oct-22	BA19604	5.3	ST .1+307	51.448859	-112.680312	5.08	5.588	5.461	6.539	19.7	24.4	24.4	
3-Oct-22	BA19604	8.7	St. 1+307	51.448859	-112.680312	2.54	3.937	3.683	4.322	19.7	15.1	17.7	
3-Oct-22	BA19603	5.6	ST .1+475	51.448661	-112.681029	1.524	2.540	1.778	2.694	>100	13.1	18.3	
3-Oct-22	BA19603	9	ST. 1+475	51.448661	-112.681029	1.651	2.032	1.651	2.362	19.7	11.4	13.5	
3-Oct-22	BA20194	3		51.449996	-112.681009	1.524	1.27	1.651	1.943	14.2	18.3	19.7	
4-Oct-22	BA19603	5.6	ST .1+475	51.448661	-112.681029	55.753	54.864	54.610	95.325	>100	>100	>100	High frequency, not recorded on second sensor
4-Oct-22	BA19604	5.3	ST .1+307	51.449373	-112.680462	3.683	3.683	5.461	6.45	36.6	24.4	34.1	
4-Oct-22	BA19604	8.7	St. 1+307	51.449373	-112.680462	2.286	2.91	2.54	3.503	19	20.5	22.3	
4-Oct-22	BA19603	9	ST. 1+475	51.448661	-112.681029	0.505	1.270	0.762	1.326	22.3	11.9	13.1	
5-Oct-22	BA19604	0	ST .1+243	51.449996	-112.681009	2.286	1.524	2.159	2.624	36.6	28.4	21.3	
5-Oct-22	BA19604	3.4	ST .1+243	51.449996	-112.681009	1.905	2.032	2.286	2.55	34.1	24.4	24.4	
5-Oct-22	BA19603	6.6	ST .4+575	51.448661	-112.681029	0.635	1.651	1.143	1.694	13.5	13.8	14.2	
5-Oct-22	BA19603	10	ST .1+475	51.448661	-112.681029	0.635	1.397	0.889	1.470	14.2	10	11.1	
6-Oct-22	BA19604	0	ST .1+243	51.450016	-112.6809076	2.921	2.286	2.794	3.215	34.1	25.6	20.5	
6-Oct-22	BA19604	3.4	ST .1+243	51.450016	-112.6809076	1.905	1.524	2.413	2.744	30.1	22.3	24.4	
6-Oct-22	BA19603	4.3	ST .4+463	51.450747	-112.681835	1.016	0.889	0.762	1.205	17.7	16.5	22.3	
6-Oct-22	BA19603	7.7	ST .1+128	51.450747	-112.681835	0.889	0.889	0.889	1.063	19.7	15.5	19.7	
7-Oct-22	BA19604	18	ST .1+283	51.4496349	-112.6807316	3.302	4.191	5.842	6.177	46.5	64	39.4	
7-Oct-22	BA19604	22	ST .1+283	51.4496349	-112.6807316	2.159	1.905	2.667	2.851	12.5	19.7	12.5	
7-Oct-22	BA19603	8.6	ST .1+197	51.450337	-112.6814717	2.032	1.778	2.413	2.664	14.2	16.5	16	
7-Oct-22	BA19603	12	ST .1+197	51.450337	-112.6814717	1.905	2.302	2.286	2.572	16	16	13.5	
11-Oct-22	BA19603	0	1+243	51.4500129	-112.6809740	4.318	4.048	3.175	5.209	12.5	22.3	10	
11-Oct-22	BA19603	3.4	1+243	51.4500129	-112.6809740	2.794	2.286	2.540	3.639	10.9	28.4	16.5	
11-Oct-22	BA19604	5.3	1+150	51.4506402	-112.6817515	1.143	1.651	1.397	1.879	19	13.1	13.5	
11-Oct-22	BA19604	8.7	1+150	51.4506402	-112.6817515	0.889	1.651	1.143	1.713	17.1	14.6	12.5	
12-Oct-22	BA19604	0.3	ST .1+244	51.4500060	-112.6809901	4.318	3.175	5.842	6.157	10.4	21.3	16	
12-Oct-22	BA19604	3.7	ST .1+244	51.4500060	-112.6809901	2.54	2.413	2.54	3.268	9.1	17.7	32	
12-Oct-22	BA19603	10.3	ST .1+150	51.4506402	-112.6817515	1.143	1.397	1.270	1.529	9.5	14.6	13.8	
12-Oct-22	BA19603	13.7	ST .1+150	51.4506402	-112.6817515	1.016	1.270	1.270	1.350	10.9	15.1	20.5	
13-Oct-22	BA19603	0.3	ST .1+244	51.4500060	-112.6809901	2.794	3.810	4.572	4.602	18.3	19	24.4	
13-Oct-22	BA19603	3.7	ST .1+244	51.4500060	-112.6809901	2.540	3.048	3.048	3.835	23.3	20.5	23.3	
13-Oct-22	BA19604	10.3	ST .1+150	51.4506402	-112.6817515	1.27	1.651	1.778	2.148	17.7	12.8	8.5	
13-Oct-22	BA19604	13.7	ST .1+150	51.4506402	-112.6817515	1.143	1.27	1.397	1.426	17.7	13.1	8.8	
14-Oct-22	BA19603	0.3	ST .1+244	51.4500060	-112.6809901	3.937	4.826	8.001	8.005	24.4	26.9	30.1	
14-Oct-22	BA19603	3.7	ST .1+244	51.4500060	-112.6809901	2.921	3.683	4.064	4.879	28.4	19.7	26.9	
14-Oct-22	BA19604	10.3	ST .1+150	51.4506402	-112.6817515	2.032	1.524	1.27	2.275	>100	20.5	11.6	
14-Oct-22	BA19604	13.7	ST .1+150	51.4506402	-112.6817515	1.524	1.905	1.524	2.012	20.5	18.3	21.3	
15-Oct-22	BA19603	0.3	ST .1+244	51.450006	-112.6809901	4.191	4.064	3.429	5.185	23.3	22.3	32	
15-Oct-22	BA19603	3.7	ST .1+244	51.450006	-112.6809901	1.778	2.794	3.556	3.700	25.6	22.3	24.4	
15-Oct-22	BA19604	10.3	ST .1+150	51.4506402	-112.6817515	1.651	2.794	2.794	2.965	20.5	18.3	22.3	
15-Oct-22	BA19604	13.7	ST .1+150	51.4506402	-112.6817515	1.27	1.905	1.778	2.275	16.0	16.0	17.1	
17-Oct-22	BA19604	0.3	1+318	51.4506402	-112.6817515	4.953	6.477	9.779	10.150	21.3	22.3	23.3	
17-Oct-22	BA19604	3.7	1+318	51.4506402	-112.6817515	2.667	3.810	4.953	5.188	22.3	20.5	19.7	
17-Oct-22	BA19603	0.3	ST .1+244	51.450006	-112.6809901	2.921	3.683	4.318	4.512	23.3	24.4	28.4	
17-Oct-22	BA19603	3.7	ST .1+244	51.450006	-112.6809901	1.778	2.921	2.921	3.314	18.3	28.4	25.6	
18-Oct-22	BA19603	0.3	ST. 1+318	51.4506402	-112.6817515	1.905	2.794	3.429	3.676	>100	23.3	23.3	
18-Oct-22	BA19603	3.7	ST. 1+318	51.4506402	-112.6817515	1.778	1.905	2.413	2.575	>100	19	13.8	
18-Oct-22	BA19604	3.3	1+275	51.4497837	-112.6808939	0.635	1.270	0.762	1.350	11.4	11.4	-	
18-Oct-22	BA19604	6.7	1+275	51.4497837	-112.6808939	0.762	1.143	0.762	1.212	10	11.4	10.4	

**TABLE 1 - Peak Particle Velocity Summary
RD7948 - Willow Estates Berm**



Date	Unit Number	Sensor Setback	Location	Latitude	Longitude	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS (mm/s)	Tran Freq (Hz)	Vert Freq (Hz)	Long Freq (Hz)	Comments
19-Oct-22	BA19603	10.3	ST. 1+150	51.4506402	-112.6817515	3.302	2.286	2.921	3.391	>100	9.8	12.2	
19-Oct-22	BA19604	0.3	1+244	51.450006	-112.6809901	2.032	3.175	1.905	3.238	20.5	14.6	26.9	
19-Oct-22	BA19604	3.7	1+244	51.450006	-112.6809901	1.270	2.413	1.651	2.575	21.3	15.5	11.9	
19-Oct-22	BA19603	13.7	ST. 1+150	51.4506402	-112.6817515	1.016	1.651	2.159	2.279	22.3	10.9	14.6	
20-Oct-22	BA19604	10.3	ST .1+150	51.4506402	-112.6817515	0.762	1.524	1.397	1.922	12.8	12.2	13.1	
20-Oct-22	BA19604	13.7	ST .1+150	51.4506402	-112.6817515	0.635	1.27	1.27	1.636	13.8	13.1	12.5	
20-Oct-22	BA19603	0.3	ST .1+244	51.450006	-112.6809901	0.762	0.635	0.635	0.852	>100	12.8	15.5	
20-Oct-22	BA19603	3.7	ST .1+244	51.450006	-112.6809901	0.501	0.508	0.635	0.751	8.4	11.6	13.8	
24-Oct-22	BA19604	0.3	ST .1+318	51.4506402	-112.6817515	4.064	5.588	6.985	7.544	26.9	24.4	28.4	
24-Oct-22	BA19603	4.3	ST .1+520	51.448558	-112.681672	2.794	6.604	2.032	6.693	28.4	25.6	25.6	
24-Oct-22	BA19603	7.7	ST .1+520	51.448558	-112.681672	3.937	4.191	3.048	4.742	19	22.3	23.3	
24-Oct-22	BA19604	3.7	ST .1+318	51.4506402	-112.6817515	2.413	2.921	3.683	3.842	26.9	25.6	73.1	
25-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	1.143	2.032	0.889	2.04	18.3	14.6	11.1	
25-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	1.397	1.397	1.27	1.636	21.3	14.6	30.1	
26-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	3.683	5.715	2.667	6.039	51.2	30.1	64	
26-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	4.064	2.794	3.81	4.56	26.9	14.2	34.1	
27-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	1.905	4.064	2.032	4.137	30.1	17.7	17.1	
27-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	3.048	2.794	3.175	3.945	15.5	17.1	36.6	
28-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	1.016	5.334	2.794	5.471	>100	23.3	24.4	
28-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	2.413	3.429	5.08	5.143	20.5	21.3	26.9	
29-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	2.413	2.54	4.826	5.199	39.4	23.3	34.1	
29-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	2.921	4.318	2.794	4.551	10.9	6.5	12.5	
29-Oct-22	BA19603	2	ST .1+592	51.448798	-112.682462	1.016	1.778	1.397	2.207	14.2	11.4	13.1	
29-Oct-22	BA19603	2	ST .1+592	51.448798	-112.682462	1.270	1.397	1.905	2.110	12.2	12.2	11.1	
31-Oct-22	BA19604	4.3	ST .1+520	51.448558	-112.681672	17.78	58.801	57.023	76.261	1.9	13.14	1.4	not recorded on the second sensor
31-Oct-22	BA19603	2	ST .1+592	51.448798	-112.682462	8.128	5.420	0.381	8.694	36.6	34.1	>100	
31-Oct-22	BA19604	7.7	ST .1+520	51.448558	-112.681672	4.826	3.81	4.826	6.233	25.6	16	34.1	
31-Oct-22	BA19603	2	ST .1+592	51.448798	-112.682462	3.302	2.921	4.318	4.501	22.3	21.3	21.3	
1-Nov-22	BA19604	2	ST .1+592	51.448798	-112.682462	1.27	1.651	1.778	2.254	19	16	18.3	
1-Nov-22	BA19604	2	ST .1+592	51.448798	-112.682462	1.016	1.27	2.032	2.25	17.7	20.5	17.1	
4-Nov-22	BA19603	5.3		51.44869	-112.68067	2.286	4.572	3.048	5.133	10	10.4	12.2	
4-Nov-22	BA19603	8.7		51.44869	-112.68068	1.778	3.683	2.921	3.957	9.5	9.7	11.9	
15-Nov-22	BA19606	2.1		51.44868	-112.68092	6.223	5.080	5.715	8.599	26.9	19	25.6	
15-Nov-22	BA19606	5.5		51.46470	-112.68058	3.429	3.810	2.286	3.968	21.3	14.2	19.7	
16-Nov-22	BA19603	2.1		51.44868	-112.68092	3.683	4.699	2.921	4.843	22.3	19	25.6	
16-Nov-22	BA19603	5.5		51.4647	-112.68058	3.683	4.064	2.540	4.335	20.5	19	25.6	
17-Nov-22	BA19603	2.1		51.44887	-112.68041	5.080	6.604	5.969	6.870	18.3	19	14.2	
17-Nov-22	BA19603	5.5		51.46482	-112.68036	4.826	5.715	4.953	6.650	19.0	14.6	17.1	
18-Nov-22	BA19603	2.1		51.44887	-112.68041	3.302	7.112	6.604	7.729	15.1	16.5	18.3	
18-Nov-22	BA19603	5.5		51.46482	-112.68036	3.048	6.096	5.588	6.519	13.1	16.0	17.7	
19-Nov-22	BA19603	2.1		51.44887	-112.68041	9.017	10.795	7.620	12.527	23.3	14.6	22.3	isolated event
19-Nov-22	BA19603	5.5		51.46482	-112.68036	8.128	9.652	6.985	11.145	17.1	14.6	19.7	
21-Nov-22	BA19603	4.3		51.45002	-112.68105	2.794	4.572	3.810	5.097	12.5	12.8	20.5	
21-Nov-22	BA19603	7.7		51.45002	-112.68104	2.286	4.318	3.175	4.496	10.9	13.8	19.0	
22-Nov-22	BA19603	4.3		51.45002	-112.68105	2.667	5.842	8.001	8.251	13.8	16.0	23.3	
22-Nov-22	BA19603	7.7		51.45002	-112.68104	4.572	5.715	4.064	6.330	6.8	16.5	20.5	
23-Nov-22	BA19603	7.7		51.45002	-112.68104	1.143	1.270	0.889	1.581	12.8	11.1	18.3	
23-Nov-22	BA19603	4.3		51.45002	-112.68105	0.762	1.143	1.143	1.314	11.4	11.1	15.5	
24-Nov-22	BA19603	4.3		51.45002	-112.68105	6.985	8.128	7.112	9.377	25.6	23.3	26.9	
24-Nov-22	BA19603	7.7		51.45002	-112.68104	5.461	7.493	6.223	8.361	42.7	19.7	23.3	

**TABLE 1 - Peak Particle Velocity Summary
RD7948 - Willow Estates Berm**



Date	Unit Number	Sensor Setback	Location	Latitude	Longitude	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS (mm/s)	Tran Freq (Hz)	Vert Freq (Hz)	Long Freq (Hz)	Comments
24-Nov-22	BA19604	2.1	1+318	51.44869	-112.68073	2.413	2.159	2.921	4.012	21.3	14.6	34.1	
24-Nov-22	BA19604	5.5	1+318	51.44865	-112.68084	1.397	1.778	1.143	1.823	13.8	12.2	11.4	
25-Nov-22	BA19603	4.3		51.45002	-112.68105	4.318	6.858	5.842	7.758	46.5	13.8	13.5	
25-Nov-22	BA19603	7.7		51.45002	-112.68104	2.54	5.08	4.953	5.73	42.7	13.8	12.8	
26-Nov-22	BA19603	4.3		51.45002	-112.68105	0.254	7.239	4.064	7.253	>100	15.5	14.6	
26-Nov-22	BA19603	7.7		51.45002	-112.68104	3.175	6.477	3.175	6.678	9.8	15.1	15.5	
20-Apr-23	BA19604	2		51.265513	-112.405179	2.159	6.477	3.302	5.964	14.2	11.4	14.2	
21-Apr-23	BA19604	2.5		51.265513	-112.405179	1.651	2.667	2.286	2.837	9.0	11.9	7.8	
22-Apr-23	BA19603	5.9		51.449227	-112.681063	0.5207	0.635	0.508	0.899	24.4	18.3	36.6	
22-Apr-23	BA19603	2.5		51.449227	-112.681063	0.508	0.508	0.635	0.762	73.1	20.5	15.1	
22-Apr-23	BA19604	2		51.449324	-112.681111	0.508	0.381	0.635	0.729	17.1	36.6	13.1	
24-Apr-23	BA19603	7	46 Garden Way	51.448809	-112.682368	3.429	2.794	2.794	3.719	8.8	11.6	16.0	
24-Apr-23	BA19603	10.4	46 Garden Way	51.448809	-112.682368	2.286	2.921	1.778	3.391	9.0	11.6	11.4	
25-Apr-23	BA19542	5.3		51.44889	-112.682467	20.193	11.049	13.716	21.630	18.3	10.0	20.5	Within OSMR limts
25-Apr-23	BA19542	8.7		51.44887	-112.68246	11.303	8.89	10.033	13.446	13.1	14.2	11.6	Within OSRM limts
25-Apr-23	BA19603	10.4	46 Garden Way	51.448809	-112.682368	4.699	3.81	3.429	5.751	17.1	12.5	39.4	
25-Apr-23	BA19603	7	46 Garden Way	51.448809	-112.682368	3.937	3.556	4.191	4.966	16.0	12.5	13.7	
27-Apr-23	BA19603	5.3	46 Garden Way	51.44887	-112.68253	124.587	-	251.46	341.297	39.4	42.7	51.2	isolated event, with large reduction between
27-Apr-23	BA19542	8.7	46 Garden Way	51.44879	-112.68232	42.164	29.718	127.381	131.259	11.4	8.7	8.7	isolated event, with large reduction between
27-Apr-23	BA19603	8.7	46 Garden Way	51.44887	-112.68248	26.289	12.446	29.337	33.076	22.3	73.1	20.5	isolated event, with large reduction between
27-Apr-23	BA19542	5.3	46 Garden Way	51.44880	-112.68235	15.494	8.255	29.083	29.837	42.7	3.4	3.4	isolated event, with large reduction between
29-Apr-23	BA20194	15	46 Garden Way	51.44880	-112.68234	0.079	1.429	2.143	2.153	100	4.1	28.4	
2-May-23	BA19602	15	46 Garden Way	51.44881	-112.68236	-	-	-	-	18.3	11.9	14.6	suspected disturbance during pickup
2-May-23	BA19602	15	46 Garden Way	51.44880	-112.68239	-	-	-	-	7.5	2.1	6.1	suspected disturbance during pickup
3-May-23	BA19602	15	46 Garden Way	51.44880	-112.68244	2.540	1.286	6.366	6.547	24.4	21.3	28.4	
3-May-23	BA19602	15	46 Garden Way	51.44881	-112.68239	2.000	1.286	2.778	2.810	32.0	20.5	25.6	
4-May-23	BA19602	12	46 Garden Way	51.44881	-112.68241	0.762	0.730	0.095	0.839	22.3	24.4	>100	
4-May-23	BA19602	12	46 Garden Way	51.44880	-112.68243	0.746	0.540	0.079	0.805	26.9	24.4	51.2	
5-May-23	BA19602	10	46 Garden Way	51.44885	-112.68245	4.699	2.683	8.271	8.665	16.0	11.1	21.3	
5-May-23	BA19602	10	46 Garden Way	51.44883	-112.68255	5.651	5.985	6.382	7.519	19.0	30.1	56.9	
6-May-23	BA19602	8.7	46 Garden Way	51.44887	-112.68249	2.381	2.794	4.667	5.492	24.4	11.4	9.1	
6-May-23	BA19602	5.3	46 Garden Way	51.44886	-112.88250	2.921	2.715	4.667	5.367	14.6	10.7	12.5	
6-May-23	BA19603	4	24 Willow	51.44943	-112.68040	0.762	0.889	1.016	1.122	17.1	34.1	36.6	
6-May-23	BA19603	4	24 Willow	51.44945	-112.68051	0.762	0.889	0.762	1.032	19.7	32.0	25.6	
8-May-23	BA19602	6.5	46 Garden Way	51.44878	-112.68254	4.889	3.937	9.239	9.513	39.4	39.4	34.1	
8-May-23	BA19602	9.5	46 Garden Way	51.44882	-112.68244	3.985	2.334	5.223	6.038	22.3	22.3	36.6	
8-May-23	BA19603	3	18 Willow	51.44982	-112.68081	1.778	1.270	2.032	2.110	25.6	34.1	>100	
8-May-23	BA19603	3	18 Willow	51.44979	-112.68080	1.524	1.524	1.270	1.814	21.3	42.7	25.6	
9-May-23	BA19543	3	20 Willow	51.44982	-112.68084	11.176	16.129	23.495	25.260	31.0	29.3	27.7	
9-May-23	BA19543	3	20 Willow	51.44985	-112.68086	11.811	12.192	23.114	23.780	25.0	26.3	26.9	
9-May-23	BA19603	10.5	46 Garden Way	51.44882	-112.68245	3.048	2.413	8.382	8.967	3.0	2.4	8.4	
9-May-23	BA19603	13.5	46 Garden Way	51.44883	-112.68244	2.286	2.032	1.524	2.534	17.1	12.5	46.5	
10-May-23	BA19603	10.5	46 Garden Way	51.44886	-112.68228	4.445	1.778	2.540	4.560	26.5	21.3	39.4	
10-May-23	BA19543	3	20 Willow	51.44985	-112.68086	1.905	1.397	1.397	2.682	16.0	14.2	17.4	
10-May-23	BA19603	13.5	46 Garden Way	51.44884	-112.68243	1.778	1.143	0.254	1.818	17.7	25.6	>100	
10-May-23	BA19543	3	20 Willow	51.44982	-112.68084	1.270	1.016	0.381	1.276	>100	85.3	>100	
11-May-23	BA19543	4	14 Willow	51.45010	-112.68105	1.524	1.778	2.159	2.307	46.5	14.2	41.0	
11-May-23	BA19603	8.7	46 Garden Way	51.44881	-112.68241	2.159	1.397	0.889	2.192	32.0	39.4	>100	
11-May-23	BA19603	5.3	46 Garden Way	51.44879	-112.68243	2.032	1.778	0.381	2.118	30.1	24.4	>100	
11-May-23	BA19543	4	14 Willow	51.45010	-112.68102	1.270	1.651	1.651	1.773	24.4	13.8	15.5	

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RD7948 - Willow Estates Berm**



Date	Unit Number	Sensor Setback	Location	Latitude	Longitude	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS (mm/s)	Tran Freq (Hz)	Vert Freq (Hz)	Long Freq (Hz)	Comments
12-May-23	BA19603	5.3	46 Garden Way	51.44881	-112.68244	5.080	2.921	6.223	7.970	18.3	14.6	26.9	
12-May-23	BA19603	8.7	46 Garden Way	51.44883	-112.68241	3.048	2.413	4.318	5.048	16.0	25.6	16.5	
12-May-23	BA19543	4	12 Willow	51.45023	-112.68112	1.143	1.397	1.778	2.189	16.5	39.4	39.4	
12-May-23	BA19543	4	12 Willow	51.45025	-112.68112	1.270	1.143	1.778	1.955	25.6	12.8	37.9	
13-May-23	BA19543	4	18 Willow	51.44985	-112.68084	5.080	1.397	9.398	9.805	51.2	68.3	25.6	
13-May-23	BA19603	8.7	46 Garden Way	51.44881	-112.65244	1.651	1.143	1.778	1.888	16.5	21.3	21.3	
13-May-23	BA19603	5.3	46 Garden Way	51.44878	-112.68247	1.143	1.016	0.381	1.178	30.1	22.3	>100	
13-May-23	BA19543	4	18 Willow	51.44983	-112.68080	0.381	0.635	0.381	0.684	>100	>100	>100	
15-May-23	BA19603	4	22 Willow	51.44967	-112.68067	176.403	184.531	202.184	230.868	2.0	2.3	1.6	Isolated spike at end of day, suspected
15-May-23	BA19603	4	22 Willow	51.44969	-112.68069	181.991	203.835	165.227	224.535	1.5	1.4	2.3	Isolated spike at end of day, suspected
15-May-23	BA19543	4	14 Willow	51.45024	-112.68114	5.461	8.636	8.128	9.390	22.8	29.3	31.0	
15-May-23	BA19543	4	14 Willow	51.45021	-112.68113	4.191	4.191	5.715	6.281	17.4	19.0	26.9	
16-May-23	BA19543	7.5	20 Willow	51.44961	-112.68069	4.572	4.826	6.985	7.150	48.8	36.6	22.8	
16-May-23	BA19543	6	20 Willow	51.44960	-112.6871	6.731	2.667	6.477	6.870	24.4	36.6	2.4	
16-May-23	BA19603	5	14 Willow	51.45020	-112.68112	1.651	1.397	2.286	2.655	24.4	10.9	26.9	
16-May-23	BA19603	5	14 Willow	51.45022	-112.68114	1.524	1.524	1.397	2.102	12.5	16.5	16.5	
17-May-23	BA19543	4.5	28-30 Willow	51.44887	-112.68029	3.429	3.937	6.604	7.167	78.8	93.1	64.0	
17-May-23	BA19603	5.5	16 Willow	51.45003	-112.68099	1.778	1.905	3.048	3.144	16.5	15.5	13.8	
17-May-23	BA19543	7.5	28-30 Willow	51.44880	-112.68031	1.651	2.286	1.778	2.806	41.0	48.8	18.0	
17-May-23	BA19603	8.5	16 Willow	51.44999	-112.68103	1.651	1.778	2.286	2.355	18.3	17.1	10.2	
18-May-23	BA19543	5.5	30 Willow	51.44875	-112.68035	14.478	9.398	17.018	22.095	85.3	>100	93.1	Isolated spike, not recorded on second
18-May-23	BA19603	5	16 Willow	51.44998	-112.68102	2.032	3.302	2.286	4.018	56.9	64.0	56.9	
18-May-23	BA19603	8	16 Willow	51.44998	-112.68099	1.651	1.605	2.794	3.072	12.8	13.8	11.1	
18-May-23	BA19543	8.5	30 Willow	51.44877	-112.68036	1.524	1.524	1.524	1.704	12.2	9.6	73.1	
19-May-23	BA19543	7.5	30 Willow	51.44877	-112.68030	2.413	2.159	2.283	2.655	10.8	12.0	11.6	
19-May-23	BA19543	10.5	30 Willow	51.44876	-112.68028	1.778	1.905	2.032	2.290	9.3	12.8	12.3	
19-May-23	BA19603	5.5	16 Willow	51.44998	-112.68100	1.270	0.889	1.905	2.250	64.0	64.0	73.1	
19-May-23	BA19603	8.5	16 Willow	51.44998	-112.68097	1.524	1.016	1.143	1.611	39.4	42.7	46.5	
23-May-23	BA19543	11	30 Willow	51.44876	-112.68029	14.605	16.256	18.796	21.769	>100	>100	>100	Isolated spike at high frequency,
23-May-23	BA19603	11	16 Willow	51.44998	-112.68101	1.397	0.889	1.270	1.727	22.3	13.8	16.0	
23-May-23	BA19603	8	16 Willow	51.44999	-112.68101	1.270	0.762	1.524	1.616	18.3	19.0	39.4	
23-May-23	BA19543	14	30 Willow	51.44878	-112.68031	0.508	0.508	0.381	0.582	>100	>100	>100	
24-May-23	BA19603	9	16 Willow	51.45000	-112.68099	193.421	233.299	190.119	268.386	1.5	2.9	2.8	isolated event with large reduction between
24-May-23	BA19603	12	16 Willow	51.45001	-112.68099	10.287	27.686	28.575	37.493	64.0	13.8	3.7	isolated event with large reduction between
24-May-23	BA19543	11	30 Willow	51.44877	-112.68033	31.369	21.717	22.733	33.086	68.3	60.2	93.1	within limits by second sensor
24-May-23	BA19543	14	30 Willow	51.44878	-112.68033	9.271	10.414	10.922	12.540	51.2	56.9	53.9	within limits by second sensor
25-May-23	BA19603	23	16 Willow	51.44992	-112.68117	10.922	5.969	6.858	10.985	56.9	28.4	28.4	
25-May-23	BA19603	26	16 Willow	51.44994	-112.68121	8.001	6.858	7.620	10.300	26.9	26.9	26.9	
25-May-23	BA19543	12	28 Willow	51.44878	-112.68031	0.762	1.397	1.651	1.992	73.1	68.3	68.3	
25-May-23	BA19543	15	28 Willow	51.44878	-112.68034	0.762	0.762	0.762	0.842	19.0	18.3	21.3	
26-May-23	BA19603	4	46 Garden Way	51.44882	-112.68242	6.985	5.588	9.652	11.283	11.9	28.4	21.3	
26-May-23	BA19603	7	46 Garden Way	51.44884	-112.68243	8.128	9.271	8.382	10.729	16.0	26.9	26.9	
26-May-23	BA19543	12	28 Willow	51.44878	-112.68030	0.635	0.889	1.524	1.836	46.5	44.5	48.8	
26-May-23	BA19543	15	28 Willow	51.44880	-112.68034	0.508	0.762	0.635	0.833	41.0	29.3	26.3	
27-May-23	BA19603	4	46 Garden Way	51.44880	-112.68242	3.810	2.540	3.556	4.782	17.7	22.3	30.1	
27-May-23	BA19603	7	46 Garden Way	51.44882	-112.68242	2.667	4.064	2.159	4.103	17.7	21.3	16.0	
27-May-23	BA19543	12	28 Willow	51.44879	-112.68030	1.524	1.778	1.143	2.261	64.0	85.3	93.1	
27-May-23	BA19543	15	28 Willow	51.44880	-112.68033	0.635	0.762	0.762	1.024	19.3	26.3	17.7	
29-May-23	BA19543	14	28 Willow	51.44879	-112.68034	6.985	5.207	10.160	11.116	>100	93.1	>100	
29-May-23	BA19603	7	46 Garden Way	51.44883	-112.68243	8.128	4.318	6.985	8.294	14.6	13.1	11.6	

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29-May-23	BA19603	4	46 Garden Way	51.44880	-112.68244	8.001	2.667	6.731	8.046	14.2	11.1	11.1	
29-May-23	BA19543	11	28 Willow	51.44878	-112.68031	3.429	3.556	3.683	4.933	93.1	>100	78.8	
30-May-23	BA19543	14	28 Willow	51.44879	-112.68034	1.143	2.032	2.159	2.196	16.8	18.3	20.1	
30-May-23	BA19543	11	28 Willow	51.44878	-112.68031	1.016	1.524	1.651	1.836	15.1	20.1	19.3	
30-May-23	BA19603	7	46 Garden Way	51.44883	-112.68243	0.889	1.143	1.016	1.332	39.4	25.6	18.3	
30-May-23	BA19603	4	46 Garden Way	51.44880	-112.68244	0.889	0.635	1.016	1.198	20.5	42.7	39.4	
31-May-23	BA19603	7	46 Garden Way	51.44883	-112.68243	30.988	42.672	25.654	51.805	6.1	10.2	2.0	not recorded on second sensor
31-May-23	BA19603	4	46 Garden Way	51.44880	-112.68244	2.286	1.651	3.556	3.561	36.6	16.5	17.7	
31-May-23	BA19543	14	28 Willow	51.44879	-112.68034	0.635	0.889	1.016	1.198	>100	30.1	>100	
31-May-23	BA19543	11	28 Willow	51.44878	-112.68031	0.635	0.889	0.635	0.925	34.1	28.4	25.6	
1-Jun-23	BA19603	4	46 Garden Way	51.44880	-112.68244	172.974	-	157.226	262.095	1.4	1.9	1.6	isloated event, suspected disturbance
1-Jun-23	BA19603	7	46 Garden Way	51.44883	-112.68243	167.640	197.104	135.890	218.935	2.8	10.7	5.2	isloated event, suspected disturbance
1-Jun-23	BA19543	14	28 Willow	51.44879	-112.68034	1.270	1.651	1.524	2.250	12.3	17.1	25.0	
1-Jun-23	BA19543	11	28 Willow	51.44878	-112.68031	1.397	1.143	1.397	1.611	13.8	15.8	16.0	
2-Jun-23	BA19603	7	46 Garden Way	51.44883	-112.68243	3.175	2.032	3.302	3.718	20.5	11.6	19.0	
2-Jun-23	BA19603	4	46 Garden Way	51.44880	-112.68244	2.667	1.397	3.048	3.124	30.1	11.4	21.3	
2-Jun-23	BA19543	14	28 Willow	51.44879	-112.68034	1.270	1.905	1.778	2.185	15.5	13.1	15.1	
2-Jun-23	BA19543	11	28 Willow	51.44878	-112.68031	1.270	1.397	1.524	1.836	17.1	13.1	15.5	
3-Jun-23	BA19543	11	28 Willow	51.44878	-112.68031	6.350	7.493	5.461	9.064	>100	>100	>100	
3-Jun-23	BA19543	14	28 Willow	51.44879	-112.68034	1.270	1.778	1.397	2.044	15.3	10.9	12.0	
3-Jun-23	BA19603	4	46 Garden Way	51.44880	-112.68244	0.635	0.508	0.889	0.898	13.1	42.7	30.1	
3-Jun-23	BA19603	7	46 Garden Way	51.44883	-112.68243	0.635	0.381	0.762	0.842	14.2	85.3	64.0	
5-Jun-23	BA19603	3.5	46 Garden Way	51.44883	-112.68244	40.640	35.179	80.772	82.772	-	26.9	21.3	not recorded on second sensor
5-Jun-23	BA19603	6.5	46 Garden Way	51.44881	-112.68243	2.921	2.032	3.556	3.657	85.3	>100	51.2	
5-Jun-23	BA19543	5.5	28 Willow	51.44878	-112.68037	7.493	10.287	4.191	11.827	22.8	13.7	19.3	morning
5-Jun-23	BA19543	8.5	28 Willow	51.44878	-112.68029	5.969	7.366	6.223	9.511	23.8	14.0	20.1	morning
5-Jun-23	BA19543	5.5	28 Willow	51.44878	-112.68037	5.715	7.493	5.715	8.011	64.0	>100	>100	mid mornig to evening
5-Jun-23	BA19543	8.5	28 Willow	51.44878	-112.68029	3.175	1.778	2.032	3.846	42.7	14.8	13.0	mid mornig to evening
6-Jun-23	BA19543	5.5	28 Willow	51.44878	-112.68037	3.556	5.207	3.810	5.209	>100	>100	16.8	
6-Jun-23	BA19543	8.5	28 Willow	51.44878	-112.68029	1.905	4.826	3.937	4.966	13.7	13.8	16.3	
6-Jun-23	BA19603	3.5	46 Garden Way	51.44883	-112.68244	1.905	1.397	1.397	1.984	30.1	34.1	30.1	
6-Jun-23	BA19603	6.5	46 Garden Way	51.44881	-112.68243	1.143	0.762	1.778	1.854	28.4	30.1	64.0	
7-Jun-23	BA19603	3.5	46 Garden Way	51.44883	-112.68244	2.159	0.762	2.540	3.341	64.0	>100	85.3	
7-Jun-23	BA19543	8.5	28 Willow	51.44881	-112.68034	2.286	1.651	1.778	2.440	11.3	11.4	15.3	
7-Jun-23	BA19543	11.5	28 Willow	51.44878	-112.68038	1.524	1.524	1.270	1.943	12.0	13.3	15.3	
7-Jun-23	BA19603	6.5	46 Garden Way	51.44881	-112.68243	0.889	0.762	0.889	1.063	73.1	64.0	17.7	
8-Jun-23	BA19603	6.5	46 Garden Way	51.44881	-112.68243	185.928	-	194.564	256.791	2.5	8.5	1.8	isloated event, suspected disturbance
8-Jun-23	BA19603	3.5	46 Garden Way	51.44883	-112.68244	108.585	138.176	148.082	186.428	1.7	1.8	30.1	isloated event, suspected disturbance
8-Jun-23	BA19543	8.5	28 Willow	51.44881	-112.68034	26.797	57.277	45.466	71.537	39.4	78.8	68.3	before the start of construction, suspected
8-Jun-23	BA19543	11.5	28 Willow	51.44878	-112.68038	14.097	8.509	17.272	18.448	9.7	2.9	37.9	before the start of construction, suspected
9-Jun-23	BA19603	3.5	46 Garden Way	51.44883	-112.68244	-	-	204.597	289.967	4.4	64.0	3.3	isloated event, suspected disturbance
9-Jun-23	BA19603	6.5	46 Garden Way	51.44881	-112.68243	107.950	248.158	182.118	250.246	4.7	46.5	19.0	isloated event, suspected disturbance
9-Jun-23	BA19543	8.5	28 Willow	51.44881	-112.68034	0.889	1.524	1.143	1.651	15.5	11.1	16.5	
9-Jun-23	BA19543	11.5	28 Willow	51.44878	-112.68038	1.016	1.270	1.143	1.470	16.3	14.6	19.0	
10-Jun-23	BA19603	3.5	46 Garden Way	51.44881	-112.68243	84.455	105.283	59.690	127.034	4.3	21.3	34.1	before the start of construction, suspected
10-Jun-23	BA19603	6.5	46 Garden Way	51.44883	-112.68244	16.764	27.940	20.066	34.949	2.8	3.5	5.1	before the start of construction, suspected
10-Jun-23	BA19543	8.5	28 Willow	51.44881	-112.68034	0.635	0.635	0.635	0.833	24.4	20.2	22.3	
10-Jun-23	BA19543	11.5	28 Willow	51.44878	-112.68038	0.635	0.635	0.635	0.823	14.8	17.1	13.1	
16-Jun-23	BA20194	7	32 Willow	51.44867	-112.68098	0.968	2.238	1.619	2.306	9.7	9.7	9.8	
16-Jun-23	BA19603	0	26 Willow	51.44923	-112.68035	0.762	1.270	1.270	1.492	51.2	36.6	39.4	

TABLE 1 - Peak Particle Velocity Summary
RD7948 - Willow Estates Berm



Date	Unit Number	Sensor Setback	Location	Latitude	Longitude	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	PVS (mm/s)	Tran Freq (Hz)	Vert Freq (Hz)	Long Freq (Hz)	Comments
16-Jun-23	BA19603	3.5	26 Willow	51.44925	-112.68033	0.508	0.762	0.762	1.063	85.3	>100	39.4	

Start April 21, 2023 11:14:32
Finish April 21, 2023 16:16:00
Number of Intervals/Interval 3617.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19604_20230421111432.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Location: Willow estate house 32 backyard
Client: WSP
User Name: VN
General:

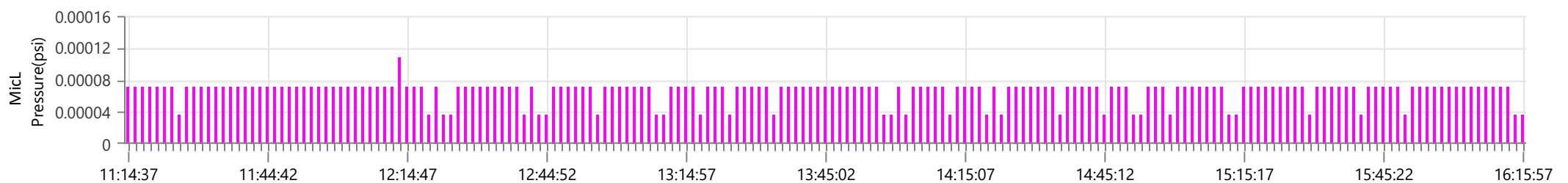
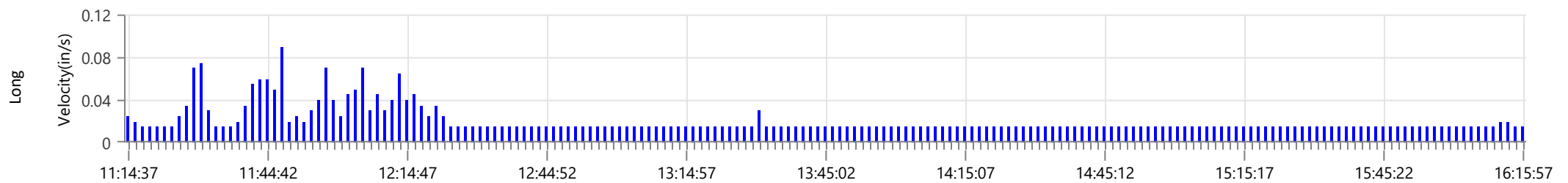
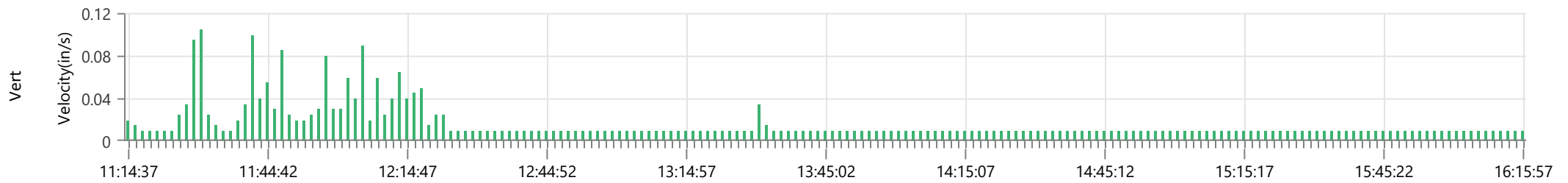
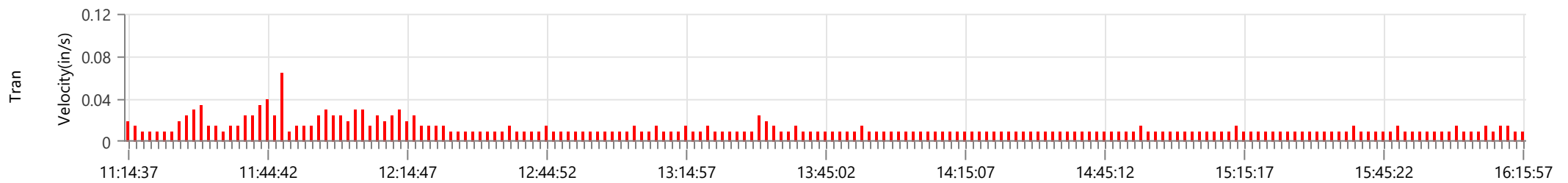
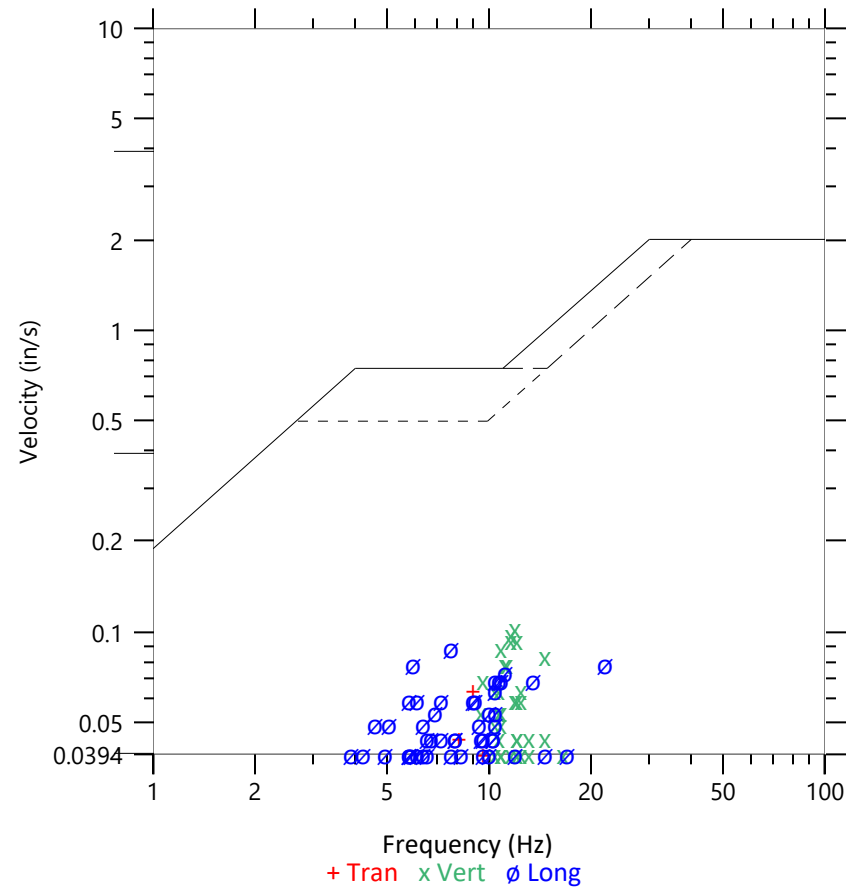
Extended Notes coordinates 51.265513N112.405179W

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.0650 in/s	0.1050 in/s	0.0900 in/s
Zero Crossing Frequency	9.0 Hz	11.9 Hz	7.8 Hz
Date	Apr 21, 2023	Apr 21, 2023	Apr 21, 2023
Time	11:47:57	11:30:42	11:47:57
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.7 Hz	7.5 Hz
Overswing Ratio	4.1	3.7	3.8
Peak Vector Sum	0.1117 in/s at April 21, 2023 11:30:42		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000109 psi
 Date Apr 21, 2023
 Time 12:13:17
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 22, 2023 09:16:50
Finish April 22, 2023 09:58:03
Number of Intervals/Interval 494.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230422091650.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate 22 WSP
User Name: VN
General:

Extended Notes coordinates 51.4492273648N112.68106274W

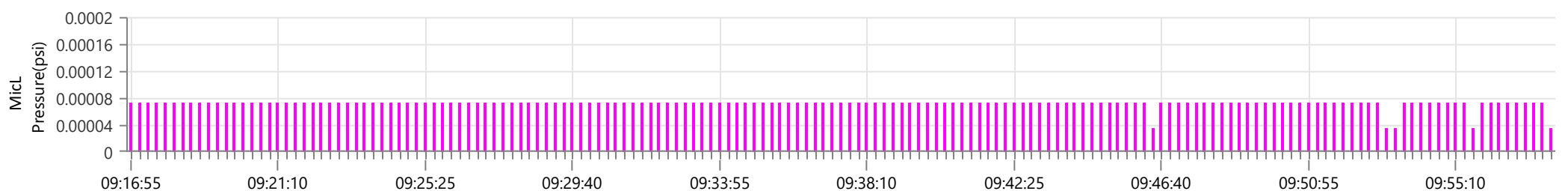
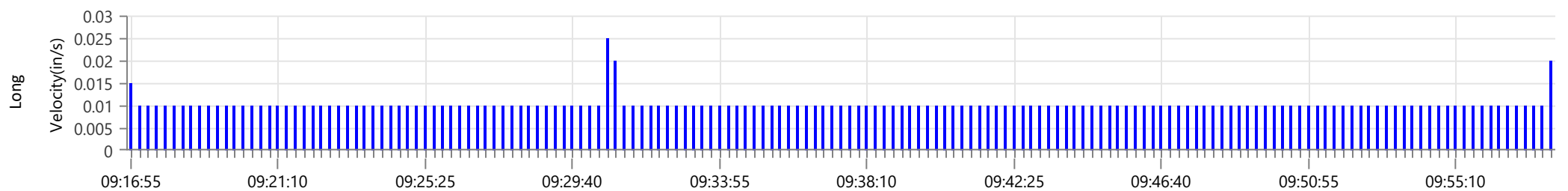
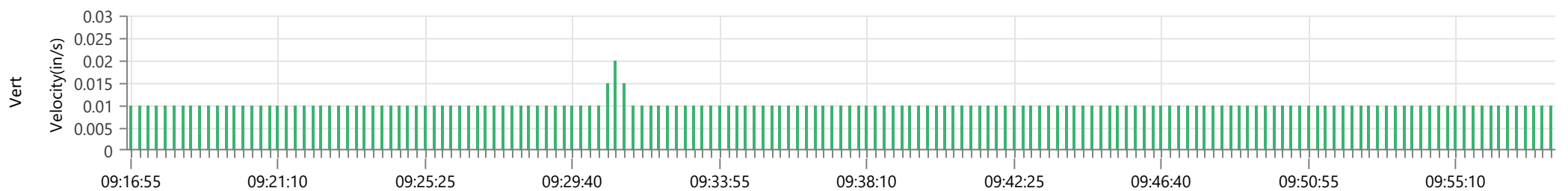
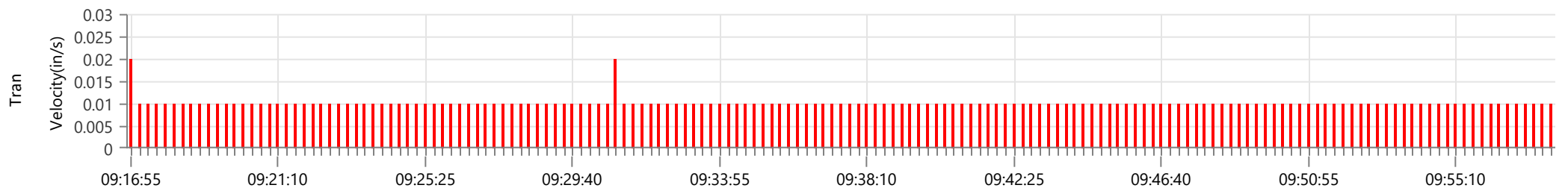
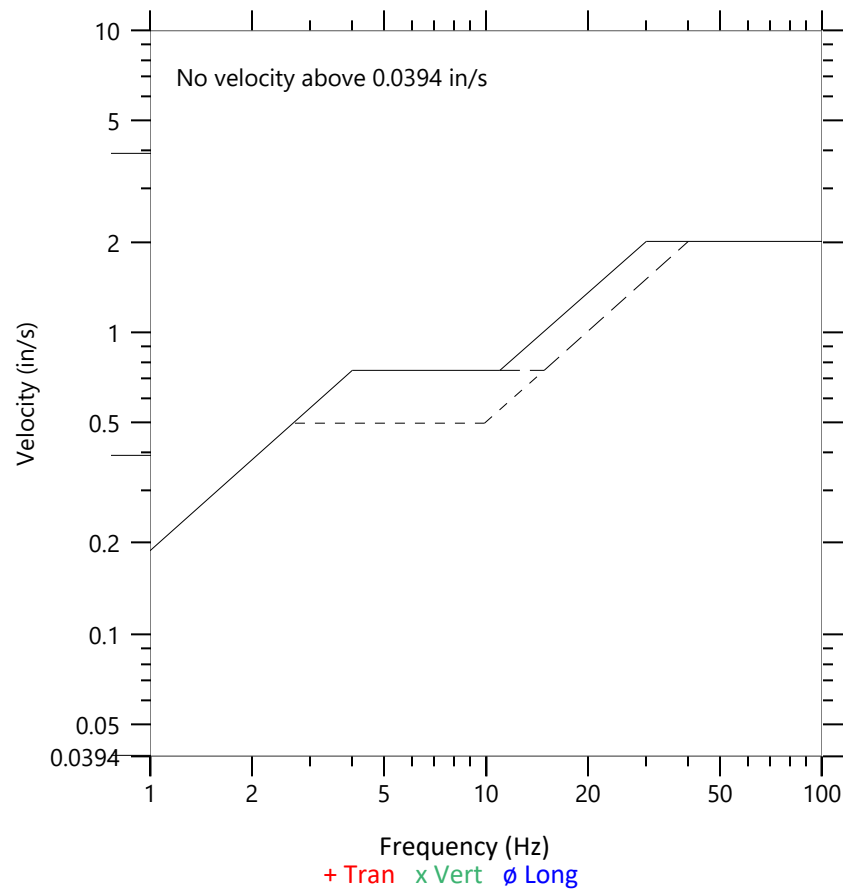
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.0200 in/s	0.0200 in/s	0.0250 in/s
Zero Crossing Frequency	73.1 Hz	20.5 Hz	15.1 Hz
Date	Apr 22, 2023	Apr 22, 2023	Apr 22, 2023
Time	09:17:00	09:31:00	09:30:40
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	8.1 Hz	7.5 Hz	7.9 Hz
Overswing Ratio	3.3	3.6	3.5

Peak Vector Sum: 0.0300 in/s at April 22, 2023 09:31:00

ISEE Linear Microphone
 Peak Sound Pressure Level <0.000073 psi
 Date Apr 22, 2023
 Time 09:16:55
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 22, 2023 09:16:50
Finish April 22, 2023 09:58:03
Number of Intervals/Interval 494.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230422091650.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

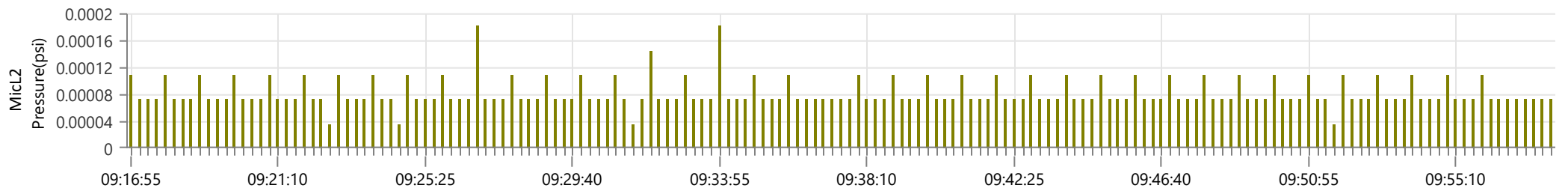
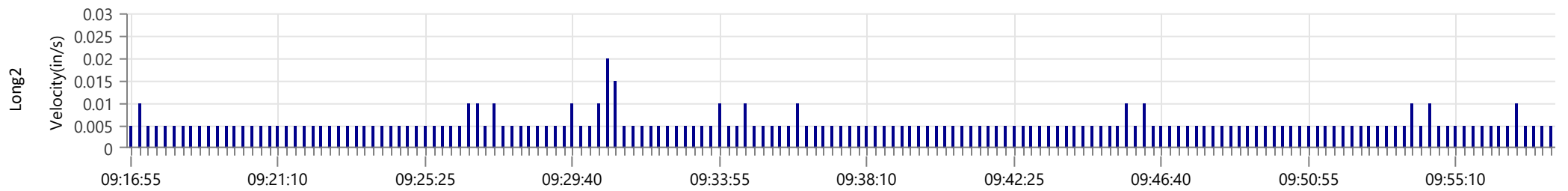
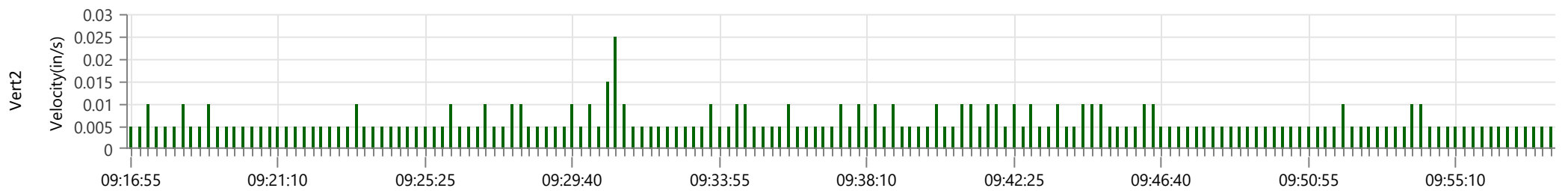
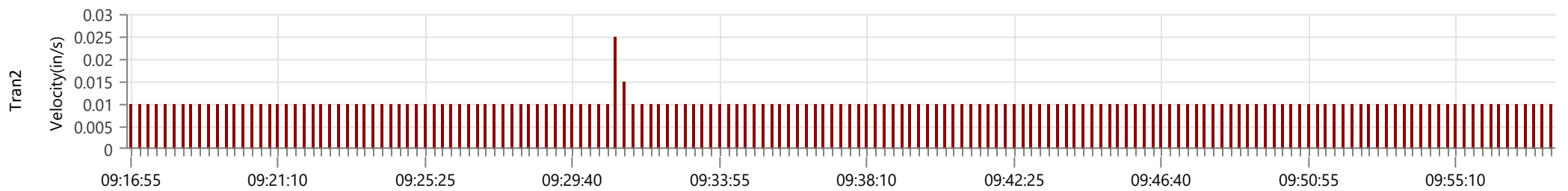
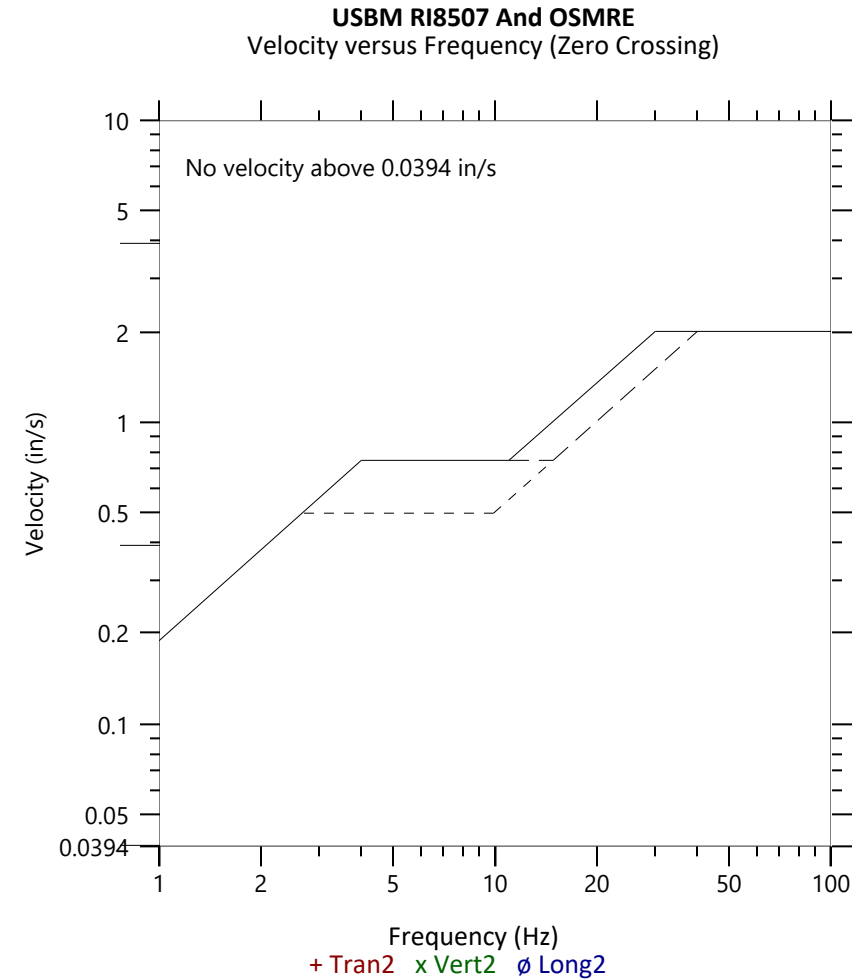
Notes
Job: RD7948
Willow estate 22 WSP
User Name: VN
General:

Extended Notes coordinates 51.4492273648N112.68106274W

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.0250 in/s	0.0250 in/s	0.0200 in/s
Zero Crossing Frequency	24.4 Hz	18.3 Hz	36.6 Hz
Date	Apr 22, 2023	Apr 22, 2023	Apr 22, 2023
Time	09:31:00	09:31:00	09:30:40
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.3 Hz	7.9 Hz
Overswing Ratio	3.4	3.4	3.7
Peak Vector Sum	0.0354 in/s at April 22, 2023 09:31:00		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000181 psi
 Date Apr 22, 2023
 Time 09:26:55
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



Start April 22, 2023 09:13:23
Finish April 22, 2023 09:55:31
Number of Intervals/Interval 505.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19604_20230422091323.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Location: Willow estate house 22 backyard
Client: WSP
User Name: VN
General:

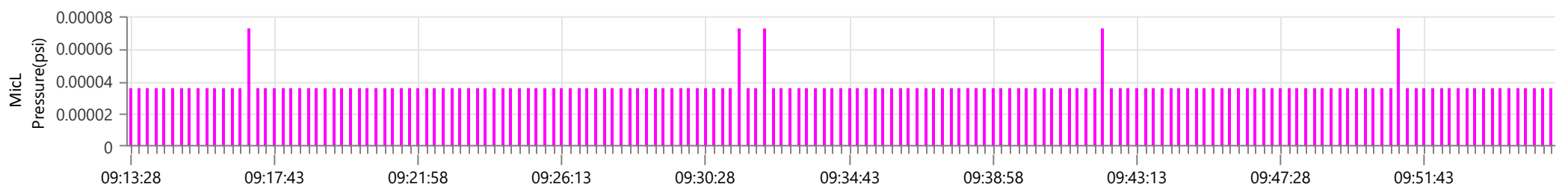
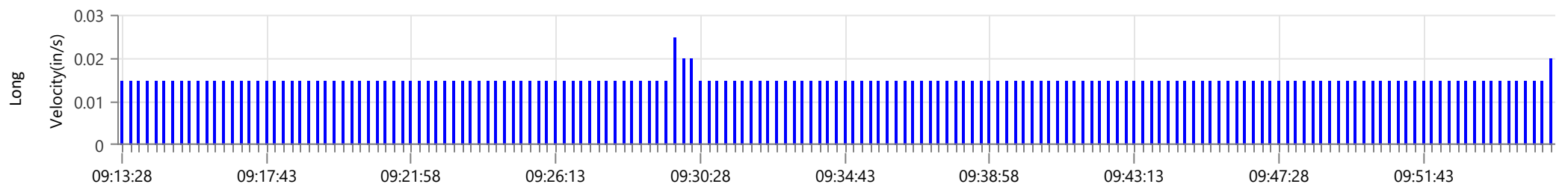
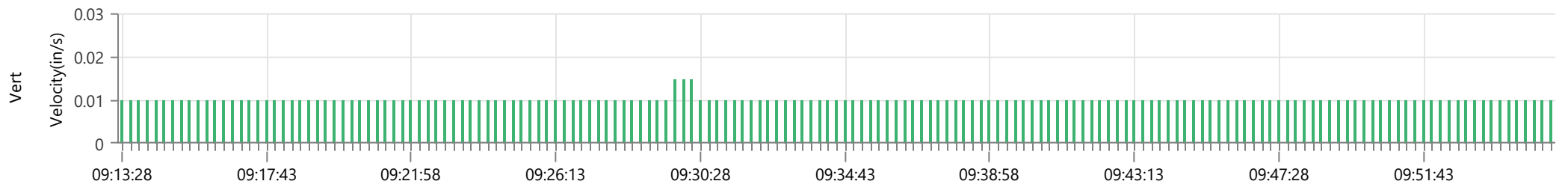
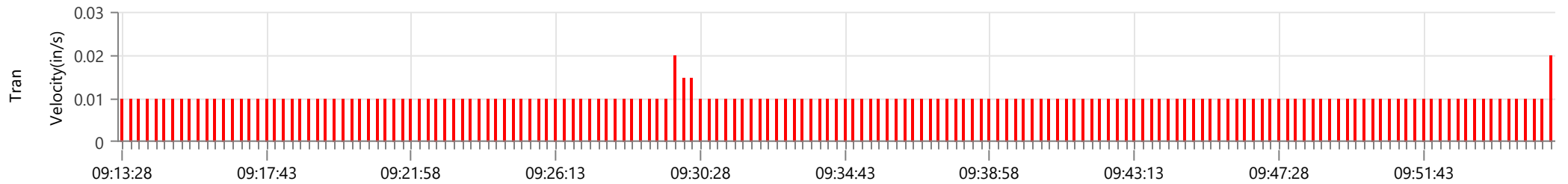
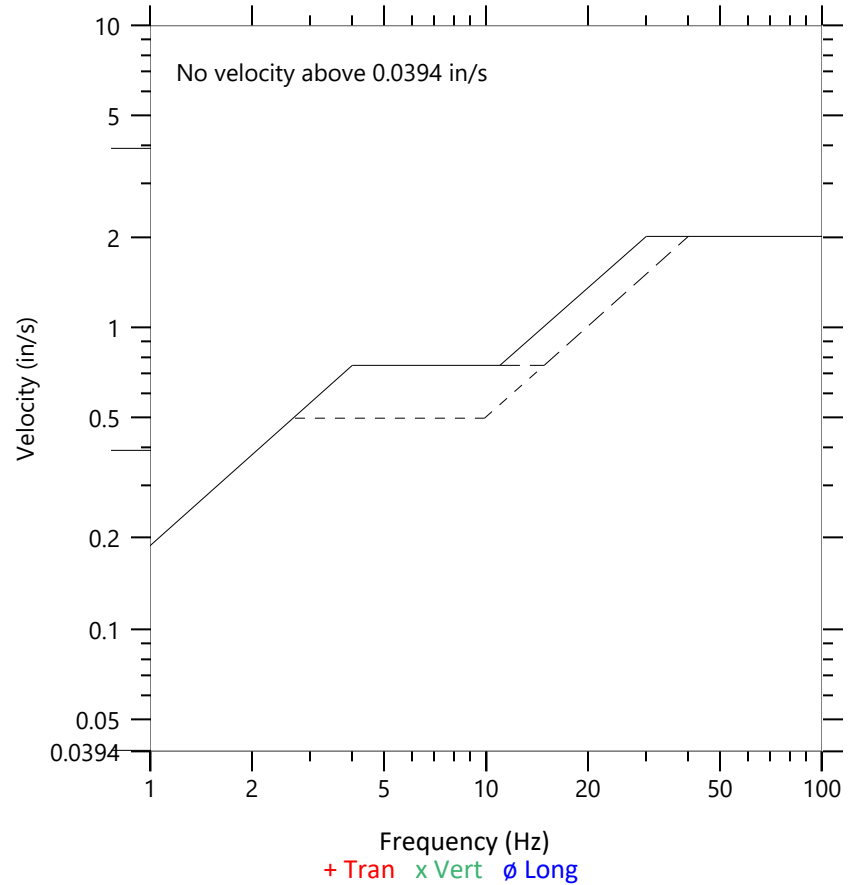
Extended Notes coordinates 51.449324N112.681111W

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.0200 in/s	0.0150 in/s	0.0250 in/s
Zero Crossing Frequency	17.1 Hz	36.6 Hz	13.1 Hz
Date	Apr 22, 2023	Apr 22, 2023	Apr 22, 2023
Time	09:29:48	09:29:48	09:29:48
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.2	3.8	4.0
Peak Vector Sum	0.0287 in/s at April 22, 2023 09:29:48		

ISEE Linear Microphone
 Peak Sound Pressure Level <0.000073 psi
 Date Apr 22, 2023
 Time 09:17:08
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 20, 2023 13:15:37
Finish April 20, 2023 18:10:44
Number of Intervals/Interval 3541.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by InstanTel
Event File Name BA19604_20230420131537.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Location: Willow estate house 32 backyard
Client: WSP
User Name: VN
General:

Extended Notes coordinates 51.265513N112.405179W

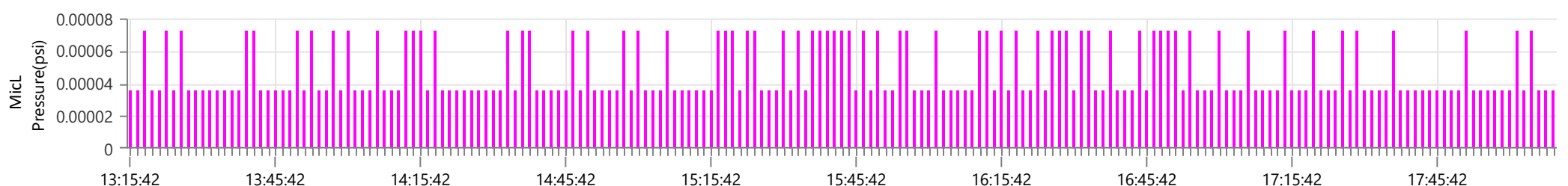
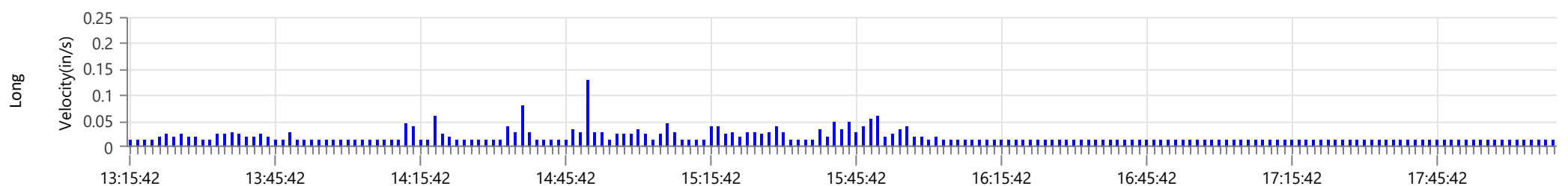
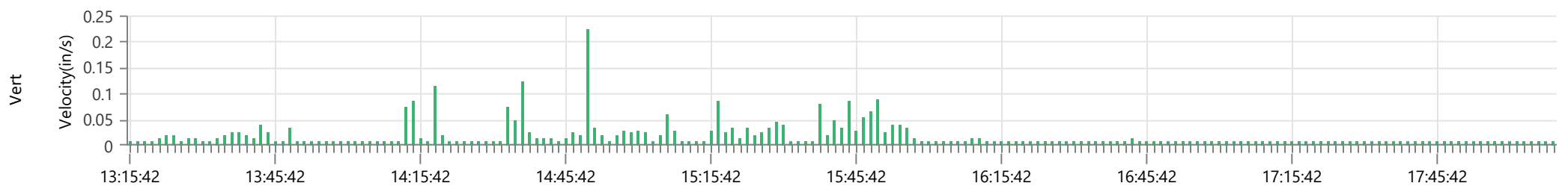
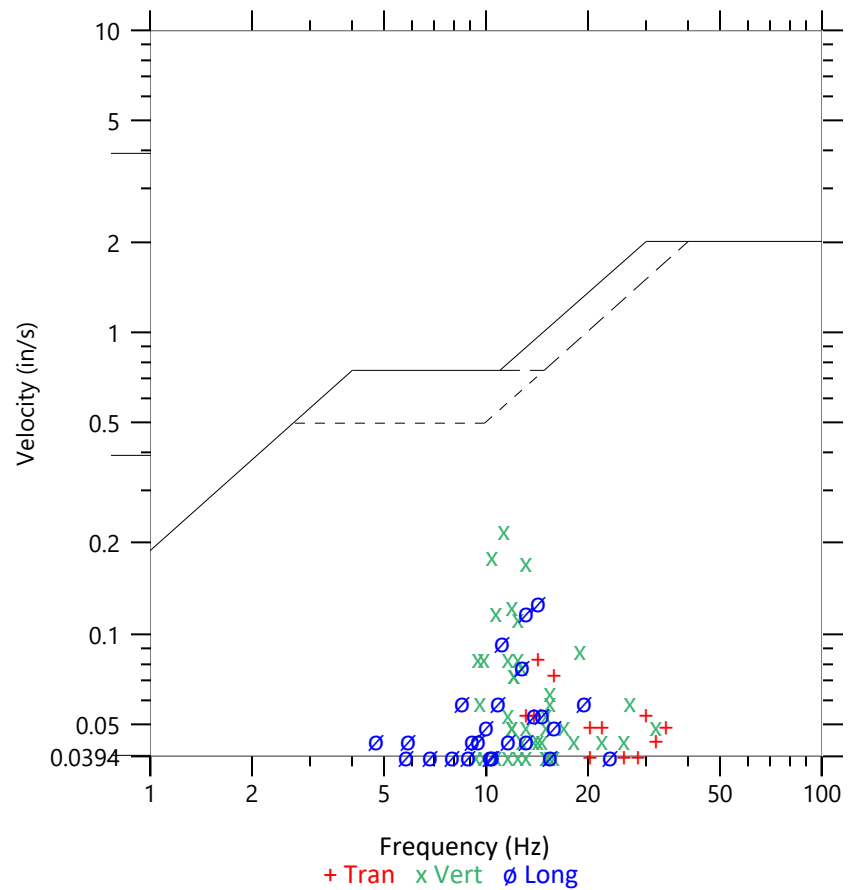
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.0850 in/s	0.2250 in/s	0.1300 in/s
Zero Crossing Frequency	14.2 Hz	11.4 Hz	14.2 Hz
Date	Apr 20, 2023	Apr 20, 2023	Apr 20, 2023
Time	14:50:32	14:50:32	14:50:17
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.2	3.9	4.1

Peak Vector Sum 0.2348 in/s at April 20, 2023 14:50:32

ISEE Linear Microphone
 Peak Sound Pressure Level <0.000073 psi
 Date Apr 20, 2023
 Time 13:19:47
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 24, 2023 09:21:29
Finish April 24, 2023 18:31:46
Number of Intervals/Interval 6603.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230424092129.IDFH
Scaled Distance 55.8 (26.2 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: VN
General:

Extended Notes coordinates 51.448809N112.68236800W

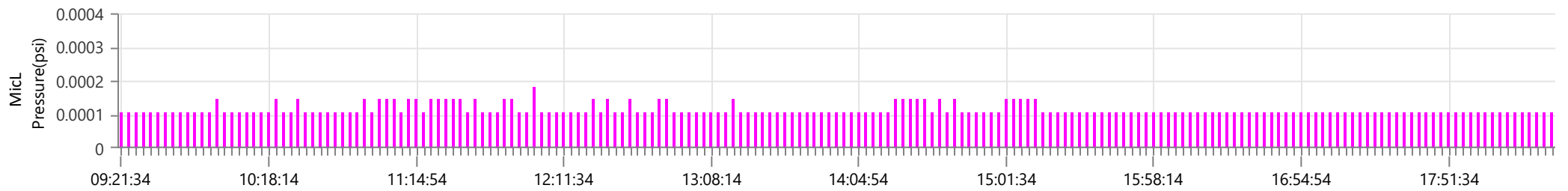
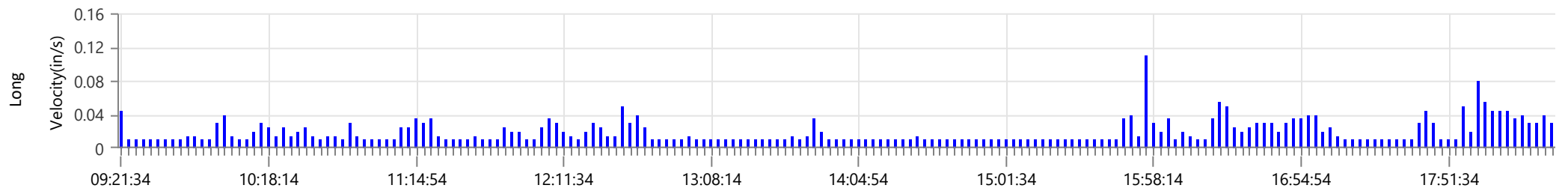
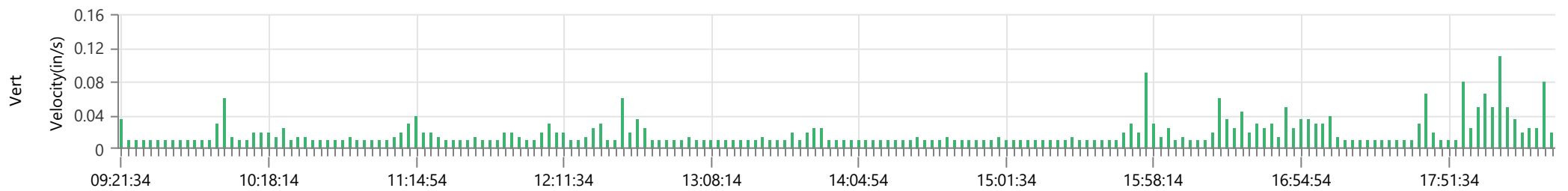
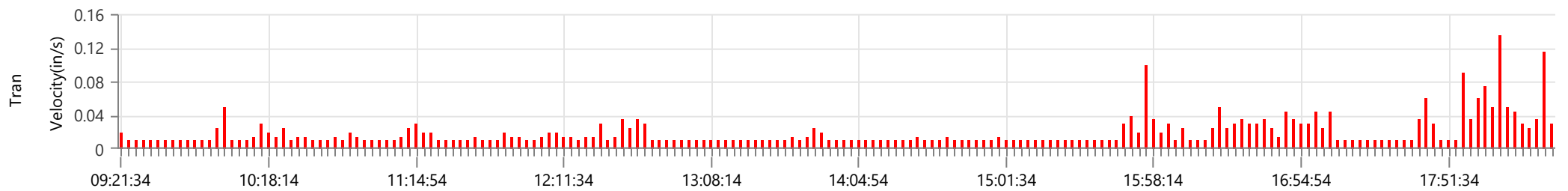
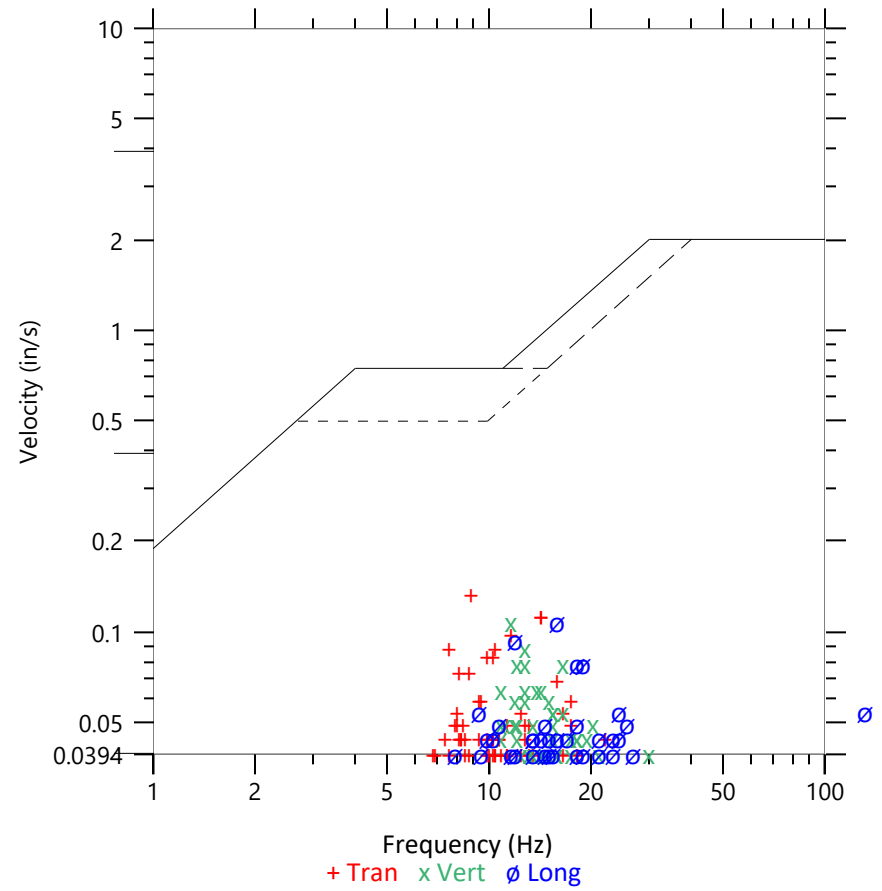
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.1350 in/s	0.1100 in/s	0.1100 in/s
Zero Crossing Frequency	8.8 Hz	11.6 Hz	16.0 Hz
Date	Apr 24, 2023	Apr 24, 2023	Apr 24, 2023
Time	18:13:04	18:13:04	15:56:59
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.9 Hz
Overswing Ratio	3.3	3.2	3.5

Peak Vector Sum 0.1464 in/s at April 24, 2023 18:13:04

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000181 psi
 Date Apr 24, 2023
 Time 12:02:44
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 24, 2023 09:21:29
Finish April 24, 2023 18:31:46
Number of Intervals/Interval 6603.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by InstanTel
Event File Name BA19603_20230424092129.IDFH
Scaled Distance 55.8 (26.2 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: VN
General:

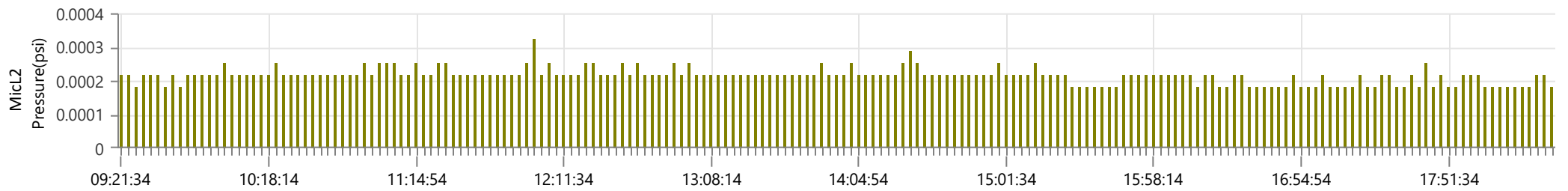
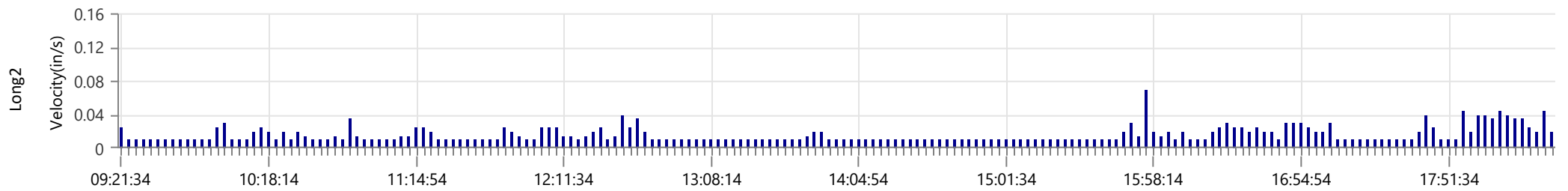
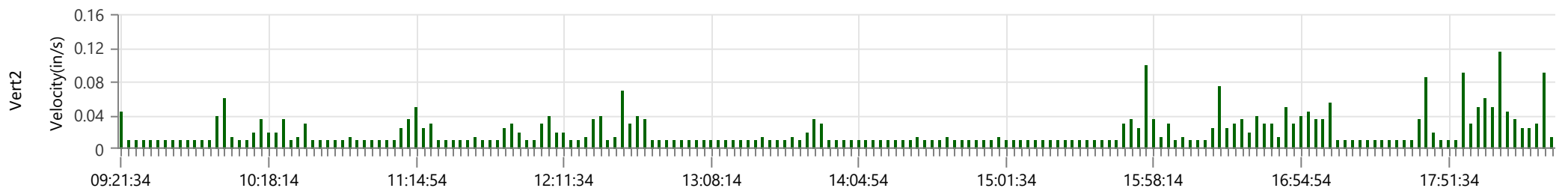
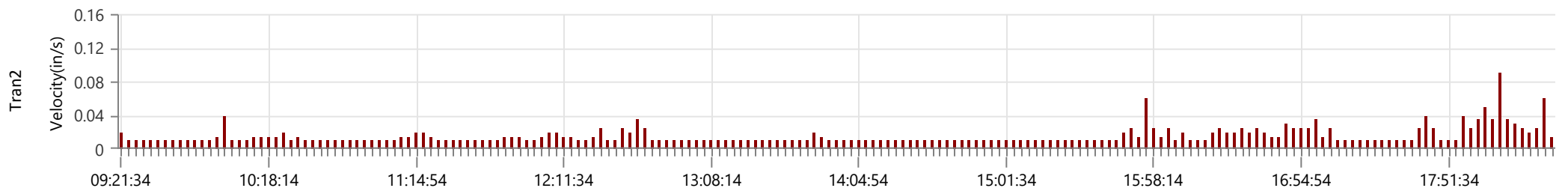
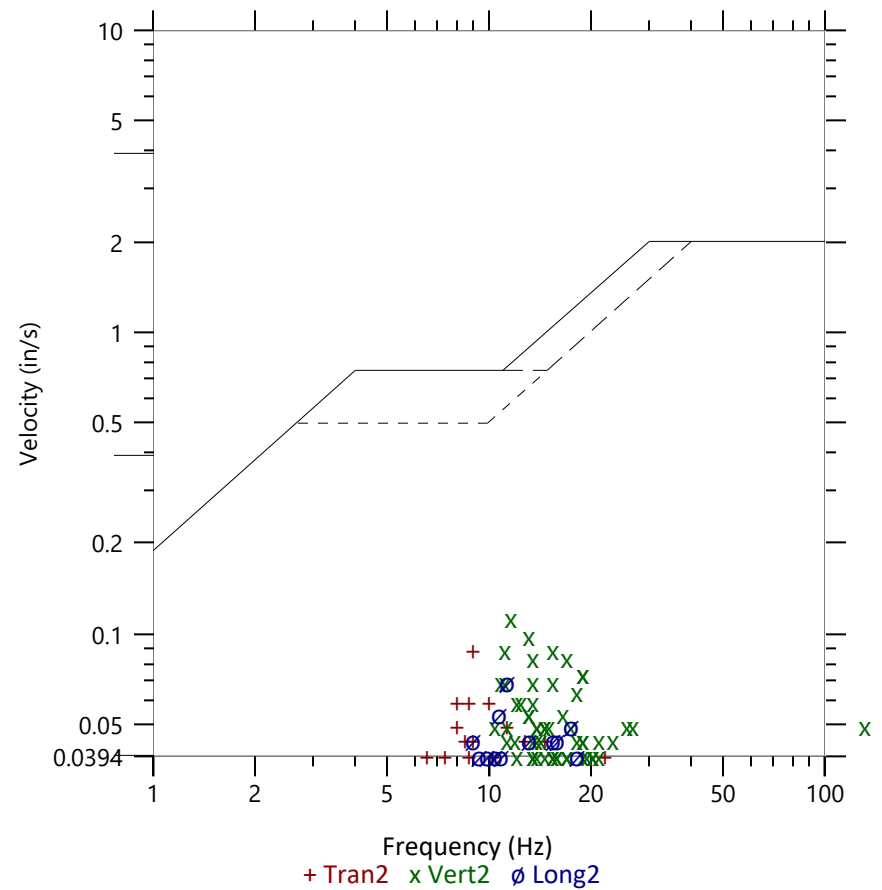
Extended Notes coordinates 51.448809N112.68236800W

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.0900 in/s	0.1150 in/s	0.0700 in/s
Zero Crossing Frequency	9.0 Hz	11.6 Hz	11.4 Hz
Date	Apr 24, 2023	Apr 24, 2023	Apr 24, 2023
Time	18:13:04	18:13:04	15:57:04
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.7 Hz
Overswing Ratio	3.3	3.6	3.6
Peak Vector Sum	0.1335 in/s at April 24, 2023 18:13:04		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000326 psi
 Date Apr 24, 2023
 Time 12:02:44
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 25, 2023 08:23:55
Finish April 25, 2023 18:00:01
Number of Intervals/Interval 6913.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230425082355.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: VN
General: Townhouse 46

Extended Notes coordinates 51.448809N112.68236800W

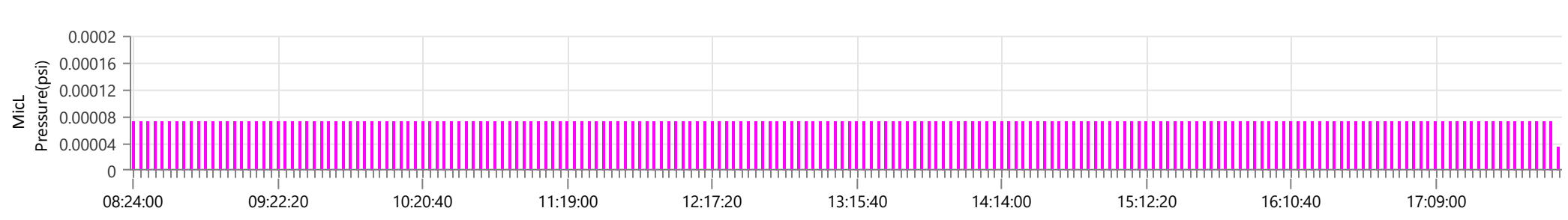
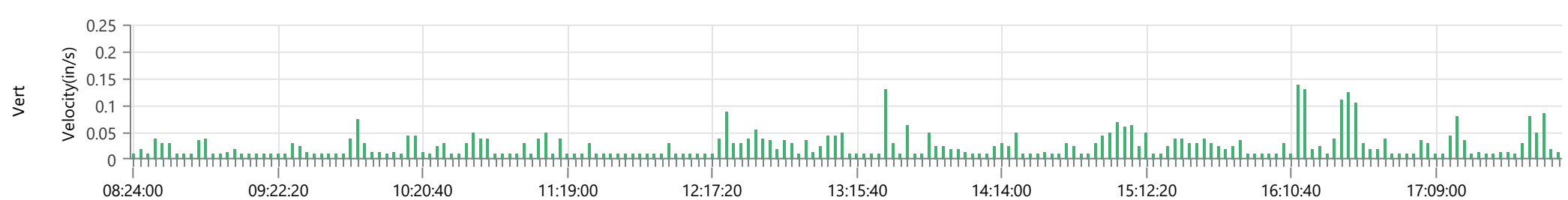
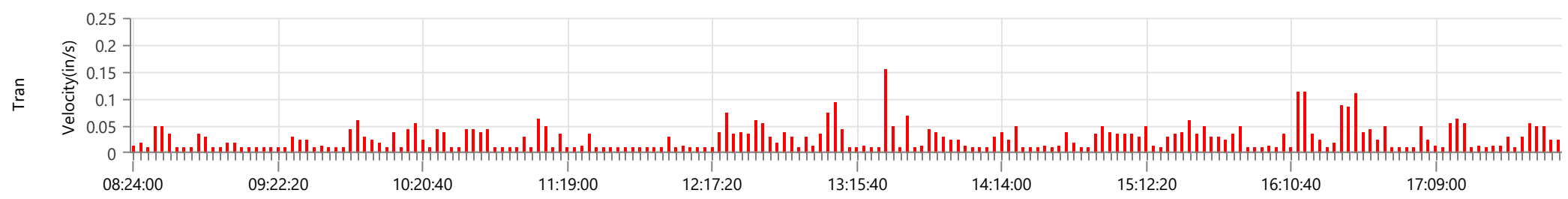
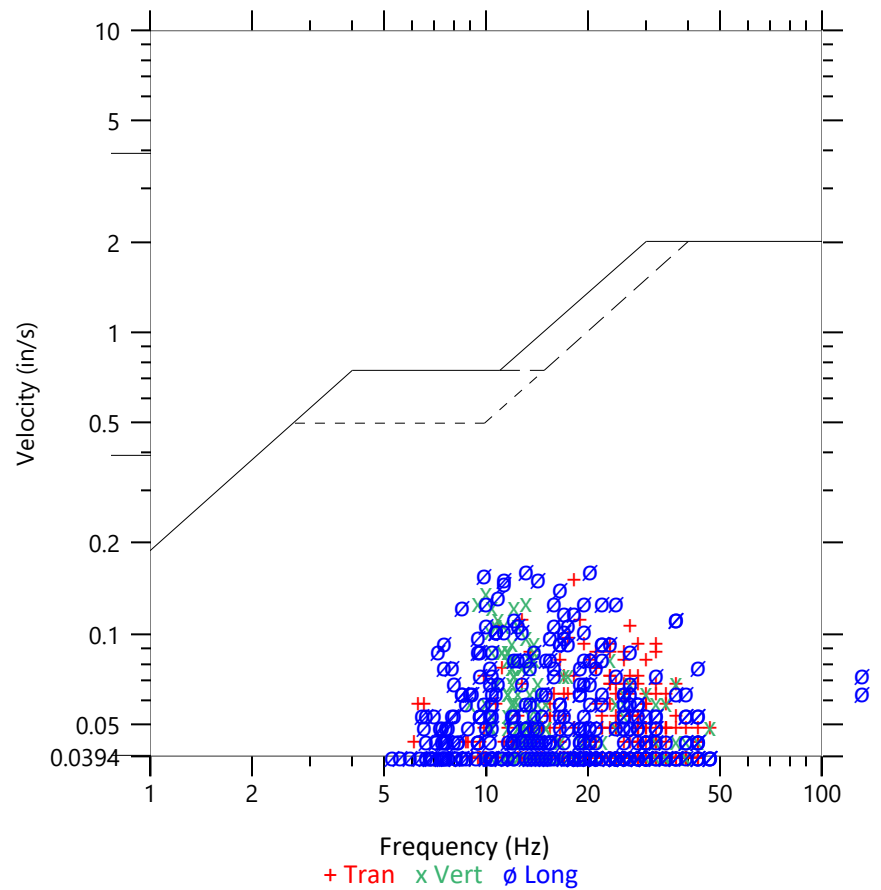
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.1550 in/s	0.1400 in/s	0.1650 in/s
Zero Crossing Frequency	18.3 Hz	10.0 Hz	20.5 Hz
Date	Apr 25, 2023	Apr 25, 2023	Apr 25, 2023
Time	13:28:20	16:15:20	12:24:35
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.9 Hz
Overswing Ratio	3.3	3.2	3.5

Peak Vector Sum 0.1955 in/s at April 25, 2023 16:15:20

ISEE Linear Microphone
 Peak Sound Pressure Level <0.000073 psi
 Date Apr 25, 2023
 Time 08:24:00
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 25, 2023 08:23:55
Finish April 25, 2023 18:00:01
Number of Intervals/Interval 6913.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230425082355.IDFH
Scaled Distance 27.8 (13.1 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: VN
General: Townhouse 46

Extended Notes coordinates 51.448809N112.68236800W

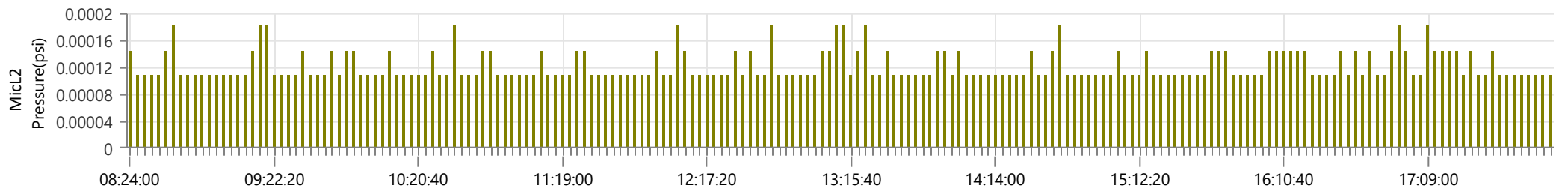
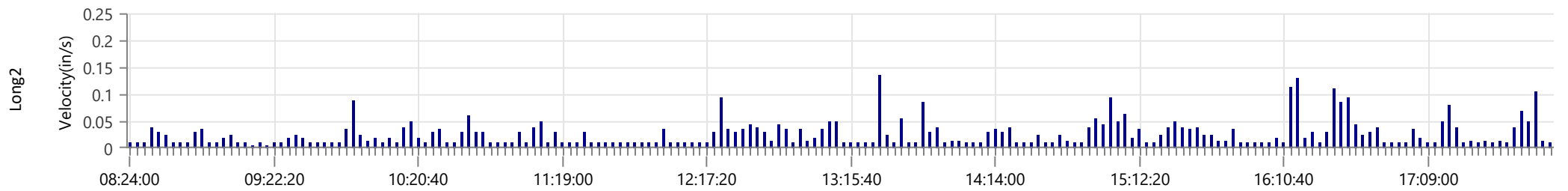
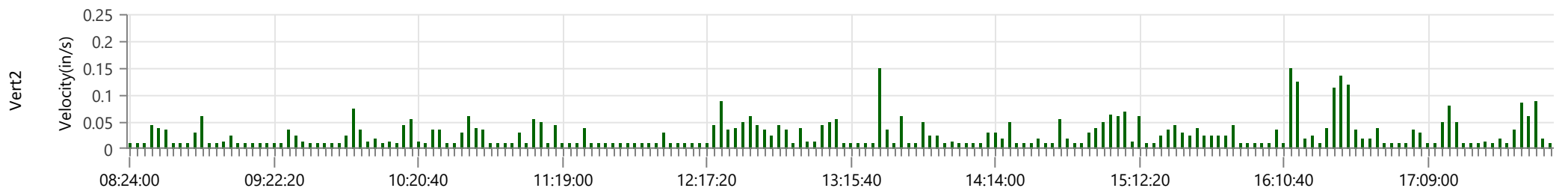
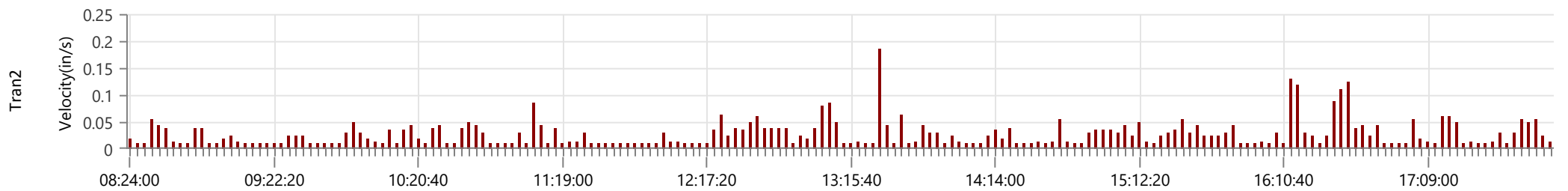
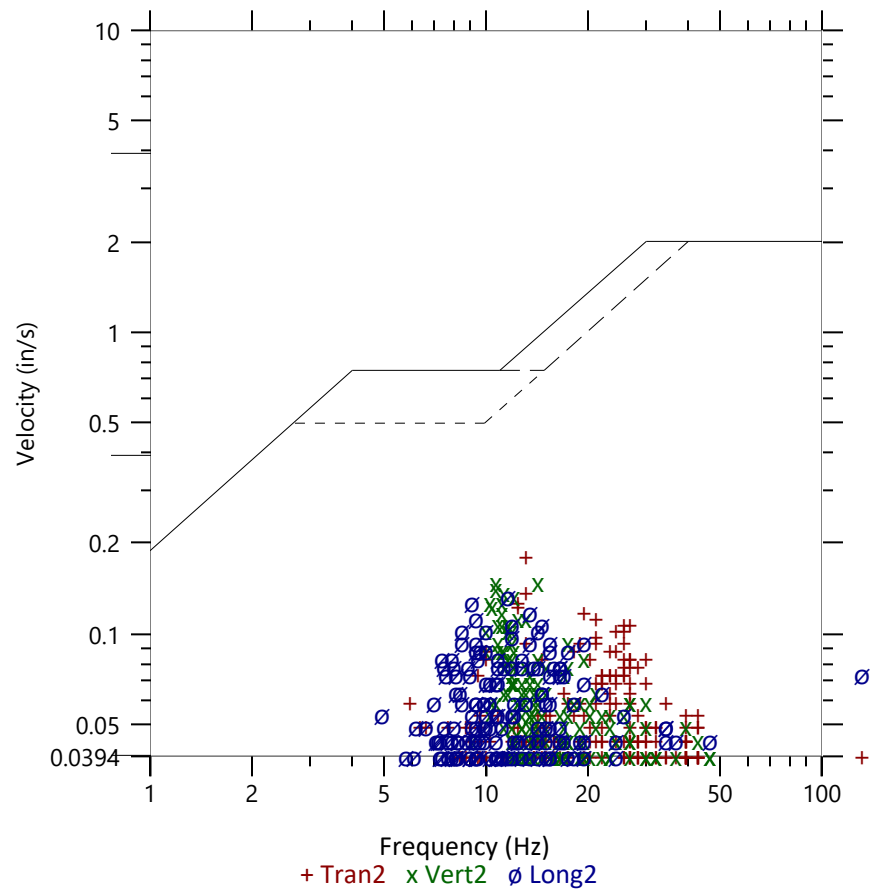
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.1850 in/s	0.1500 in/s	0.1350 in/s
Zero Crossing Frequency	13.1 Hz	14.2 Hz	11.6 Hz
Date	Apr 25, 2023	Apr 25, 2023	Apr 25, 2023
Time	13:28:20	13:28:20	13:28:20
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.3	3.6	3.6

Peak Vector Sum 0.2264 in/s at April 25, 2023 13:28:20

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000181 psi
 Date Apr 25, 2023
 Time 08:44:00
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 25, 2023 10:59:32
Finish April 25, 2023 17:57:29
Number of Intervals/Interval 5015.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19542
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration March 16, 2022 by Instantel
Event File Name BA19542_20230425105932.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Location: Willow estate 2
Client: WSP
User Name: VN
General: RD7947

Extended Notes Station1:51448901N 112.682467W Station 2:51.448874N 112.682460W

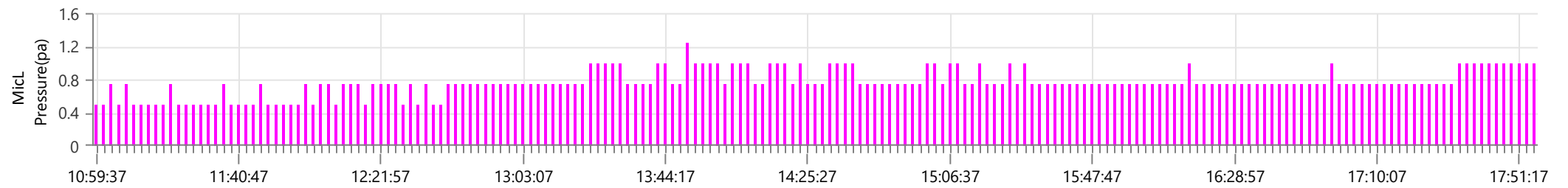
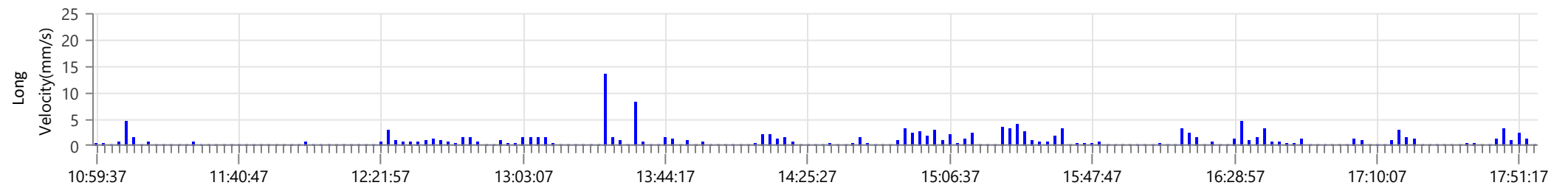
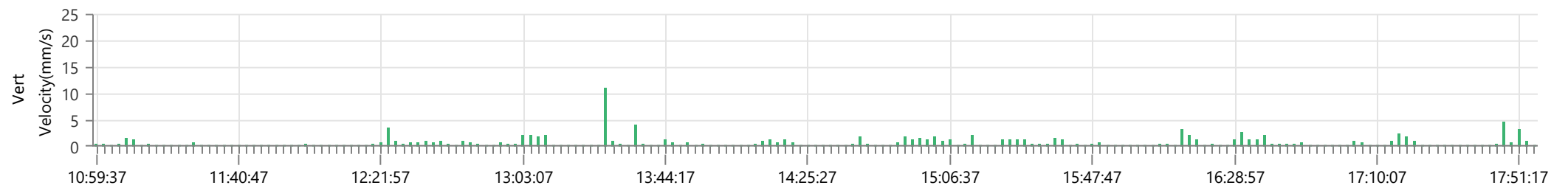
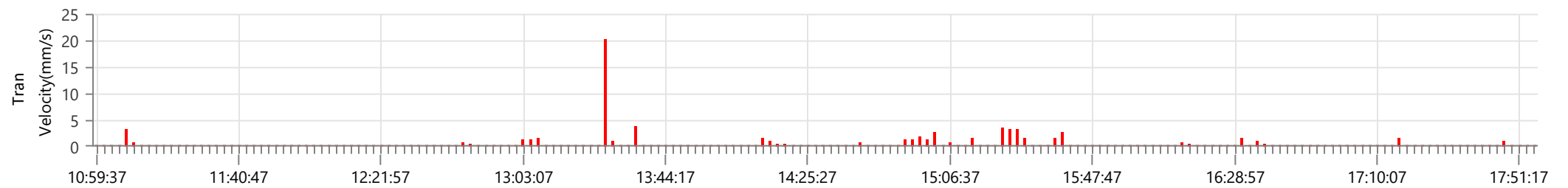
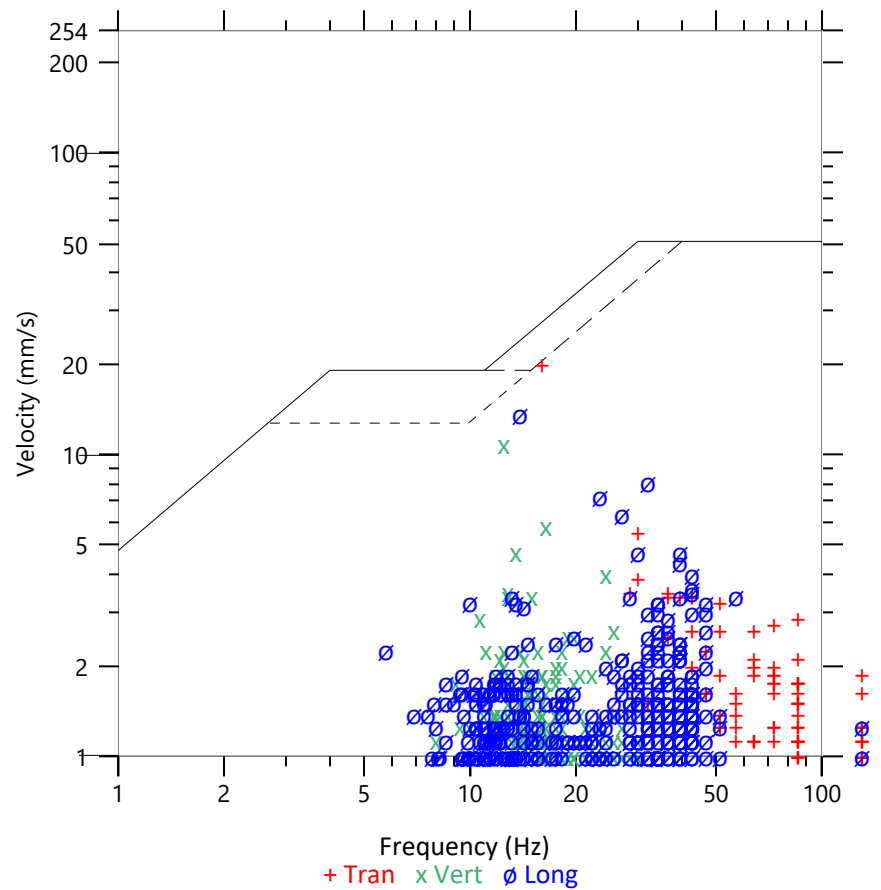
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	20.193 mm/s	11.049 mm/s	13.716 mm/s
Zero Crossing Frequency	16.0 Hz	12.5 Hz	13.8 Hz
Date	Apr 25, 2023	Apr 25, 2023	Apr 25, 2023
Time	13:28:02	13:28:02	13:28:02
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	13.7 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.1	3.4	3.4

Peak Vector Sum 21.630 mm/s at April 25, 2023 13:28:02

I SEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date Apr 25, 2023
 Time 13:51:47
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 25, 2023 10:59:32
Finish April 25, 2023 17:57:29
Number of Intervals/Interval 5015.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19542
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration March 16, 2022 by Instantel
Event File Name BA19542_20230425105932.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Location: Willow estate 2
Client: WSP
User Name: VN
General: RD7947

Extended Notes Station1:51448901N 112.682467W Station 2:51.448874N 112.682460W

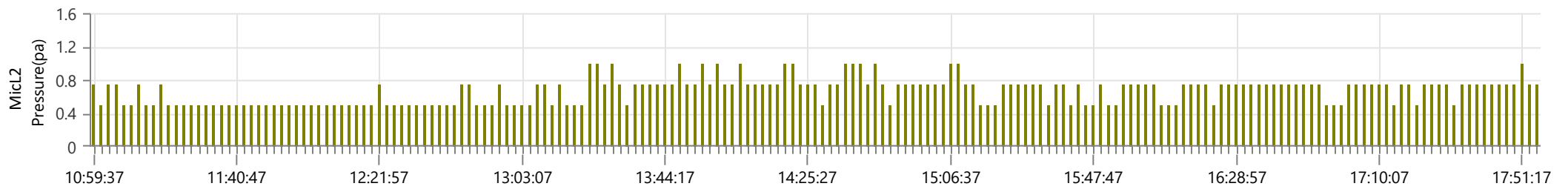
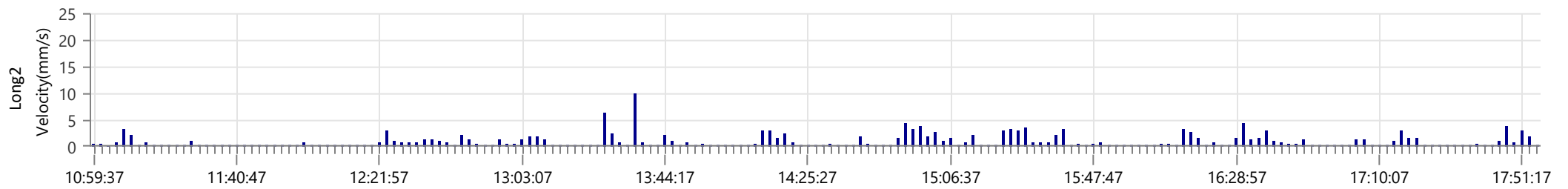
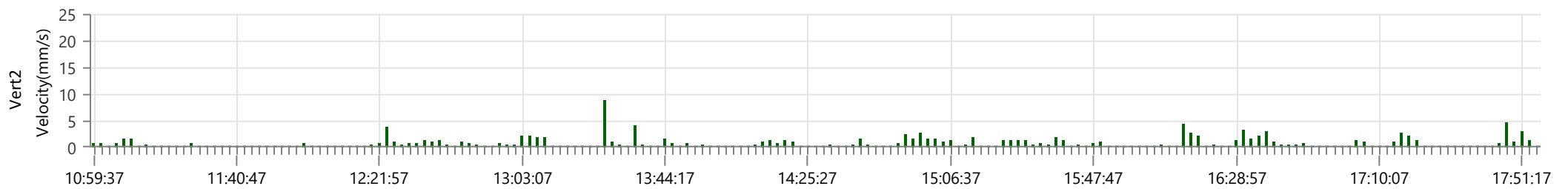
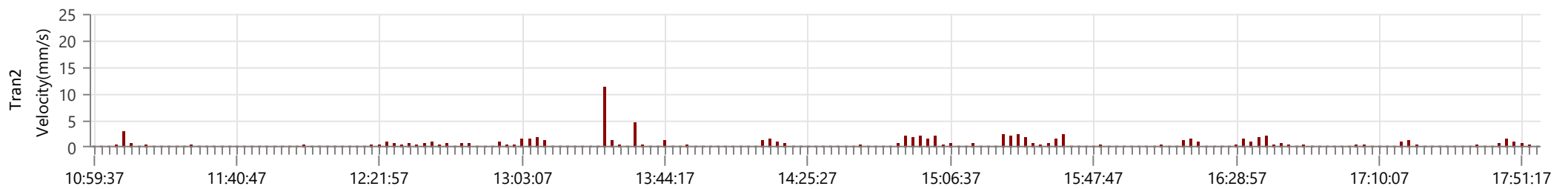
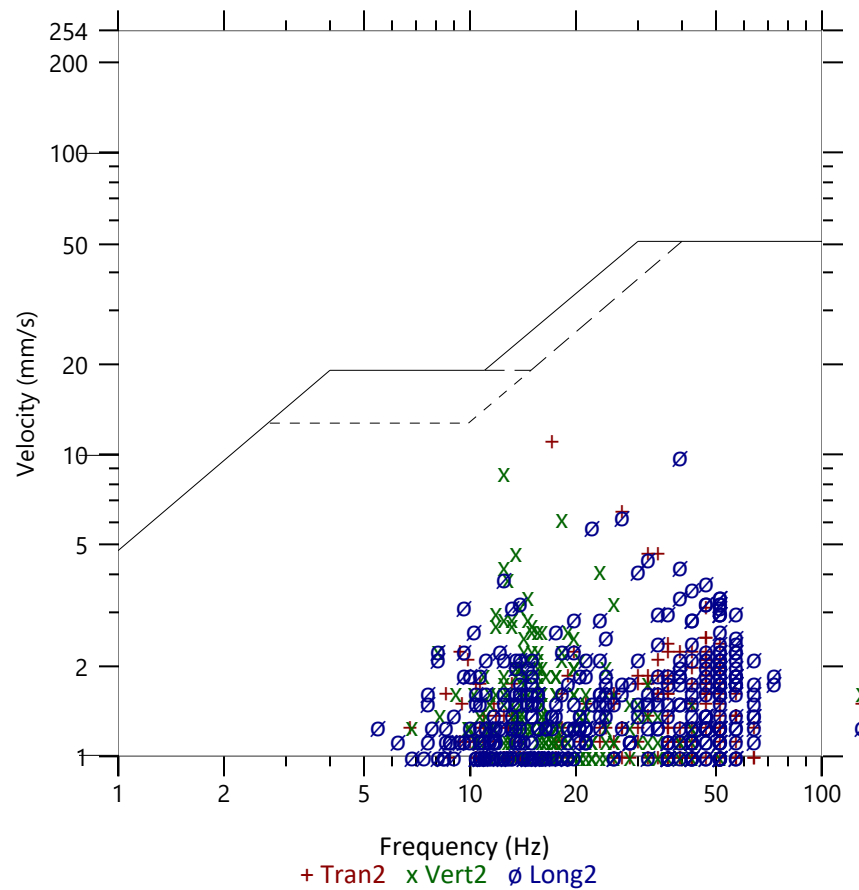
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	11.303 mm/s	8.890 mm/s	10.033 mm/s
Zero Crossing Frequency	17.1 Hz	12.5 Hz	39.4 Hz
Date	Apr 25, 2023	Apr 25, 2023	Apr 25, 2023
Time	13:28:02	13:28:02	13:37:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.7 Hz
Overswing Ratio	3.7	4.0	3.8

Peak Vector Sum 13.446 mm/s at April 25, 2023 13:28:02

I SEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date Apr 25, 2023
 Time 13:24:02
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 27, 2023 09:04:10
Finish April 27, 2023 15:57:34
Number of Intervals/Interval 4960.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230427090410.IDFH
Scaled Distance 41.9 (19.7 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: EM
General: Townhouse 46

Extended Notes station 1:51.44887 112.68248 station2:51.44887 112.68253

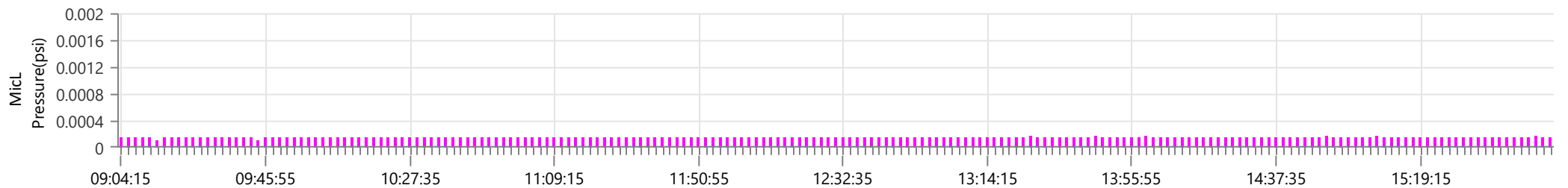
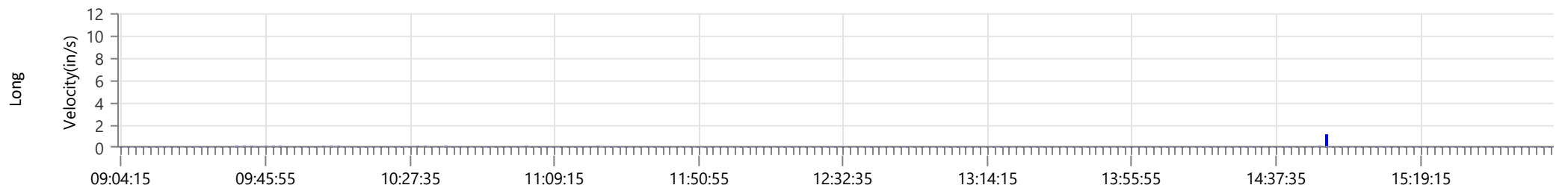
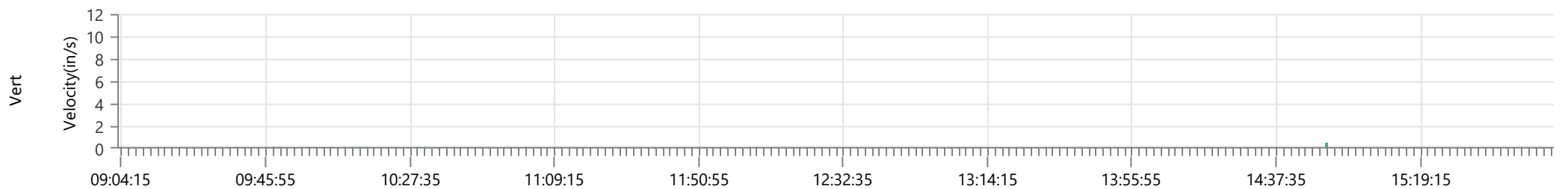
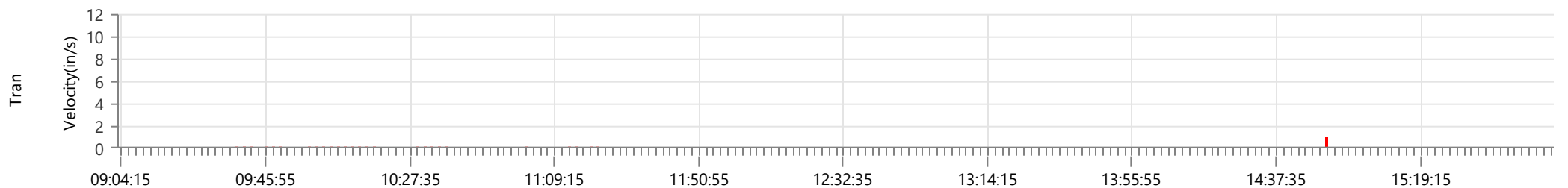
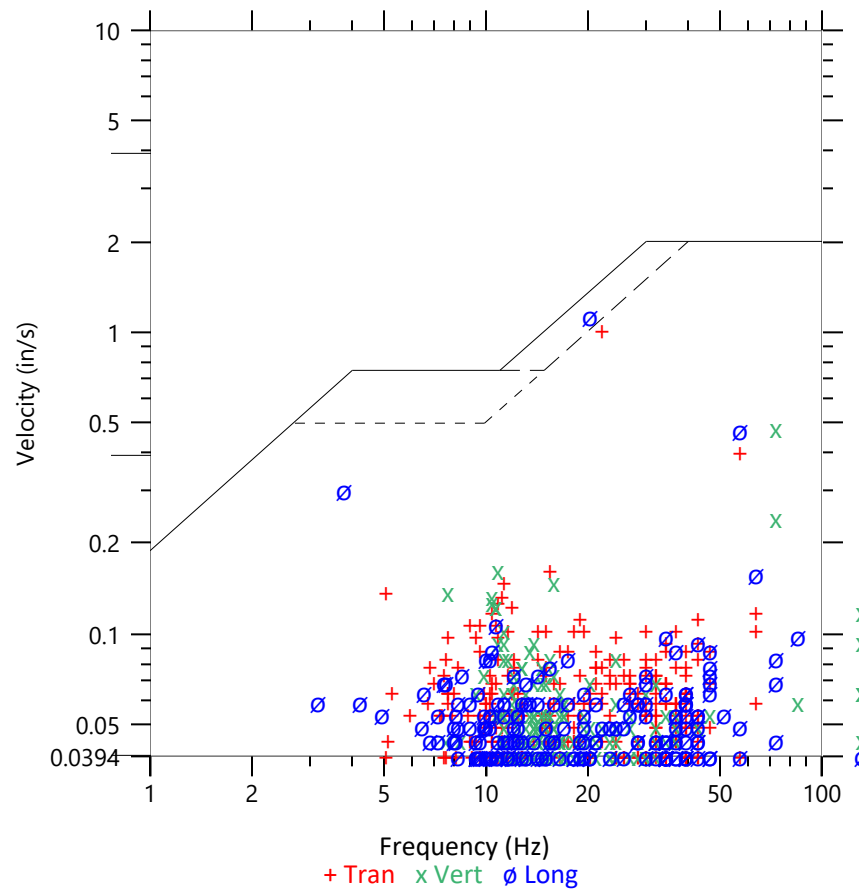
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.0350 in/s	0.4900 in/s	1.1550 in/s
Zero Crossing Frequency	22.3 Hz	73.1 Hz	20.5 Hz
Date	Apr 27, 2023	Apr 27, 2023	Apr 27, 2023
Time	14:53:10	14:53:10	14:53:10
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	3.2	3.5	3.6

Peak Vector Sum 1.3022 in/s at April 27, 2023 14:53:10

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000181 psi
 Date Apr 27, 2023
 Time 13:28:00
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 27, 2023 09:04:10
Finish April 27, 2023 15:57:34
Number of Intervals/Interval 4960.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230427090410.IDFH
Scaled Distance 41.9 (19.7 ft, 0.2 lb)

Notes
Job: RD7948
Willow estate WSP
User Name: EM
General: Townhouse 46

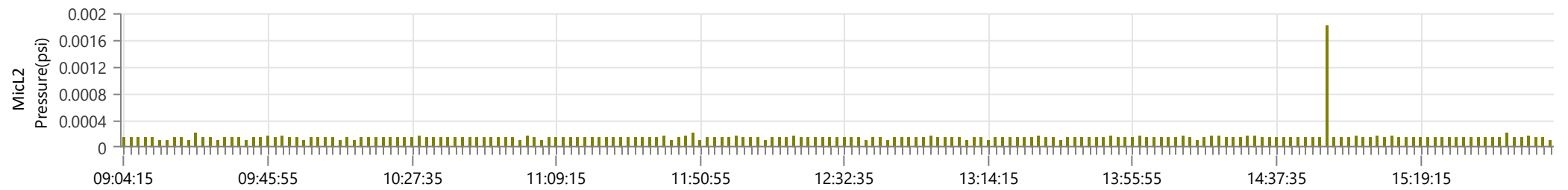
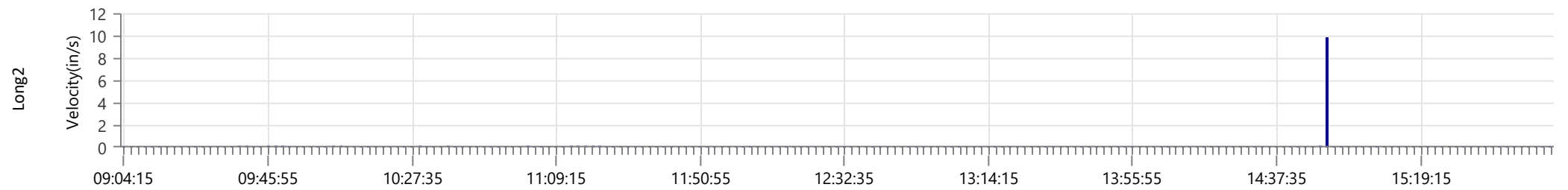
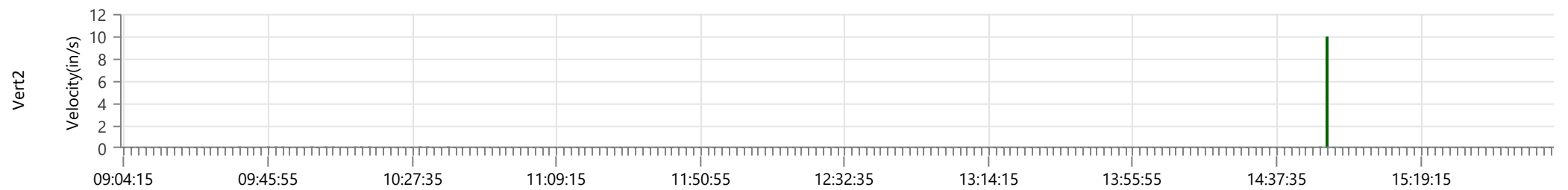
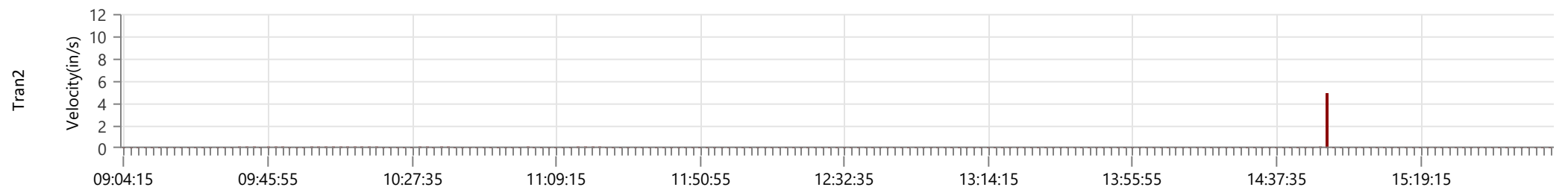
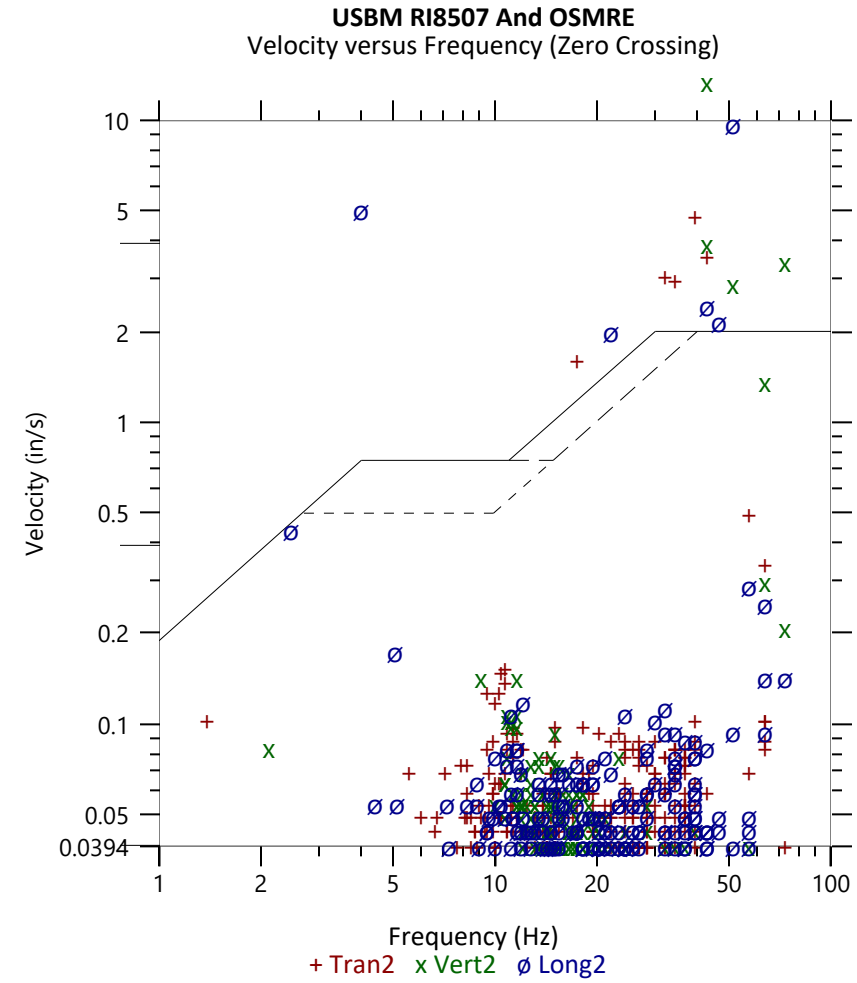
Extended Notes station 1:51.44887 112.68248 station2:51.44887 112.68253

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	4.9050 in/s	***	9.9000 in/s
Zero Crossing Frequency	39.4 Hz	42.7 Hz	51.2 Hz
Date	Apr 27, 2023	Apr 27, 2023	Apr 27, 2023
Time	14:52:25	14:52:25	14:52:25
Sensor Check	⊗ Check	⊗ Check	⊗ Check
Frequency	7.0 Hz	10.6 Hz	10.1 Hz
Overswing Ratio	3.3	1.0	0.6

Peak Vector Sum 13.4369 in/s at April 27, 2023 14:52:25

ISEE Linear Microphone
 Peak Sound Pressure Level 0.001813 psi
 Date Apr 27, 2023
 Time 14:52:25
 Zero Crossing Frequency 51.2 Hz
 Sensor Check ⊗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



Start April 27, 2023 08:56:08
Finish April 27, 2023 15:54:04
Number of Intervals/Interval 5015.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19542
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.8 volts
Battery Error (Battery low)
Unit Calibration March 16, 2022 by Instantel
Event File Name BA19542_20230427085608.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
Location: Willow estate 2
Client: WSP
User Name: EM
General: RD7948

Extended Notes Station1:51.44879 112.68232 station2 51.44880 112.68235

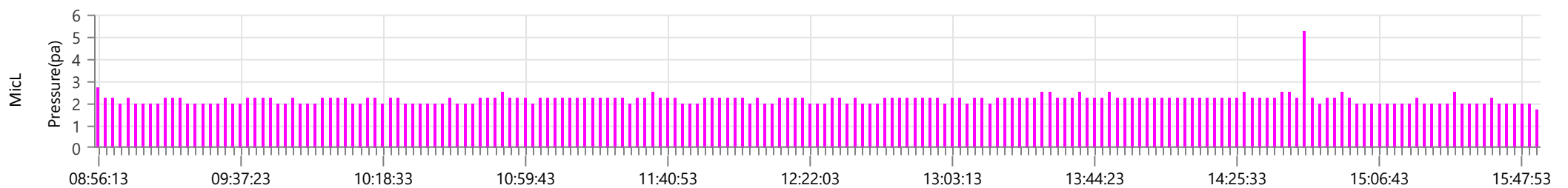
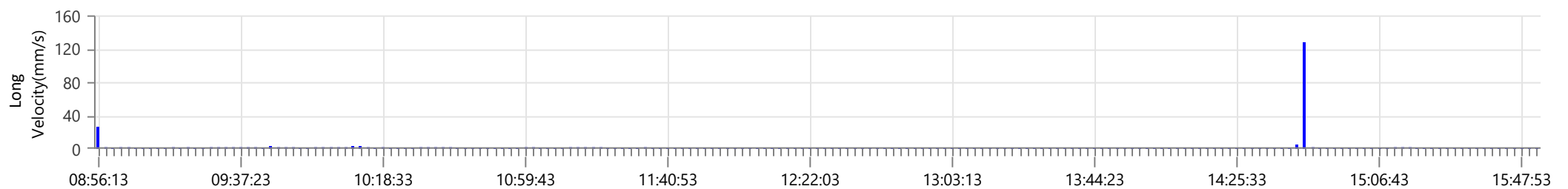
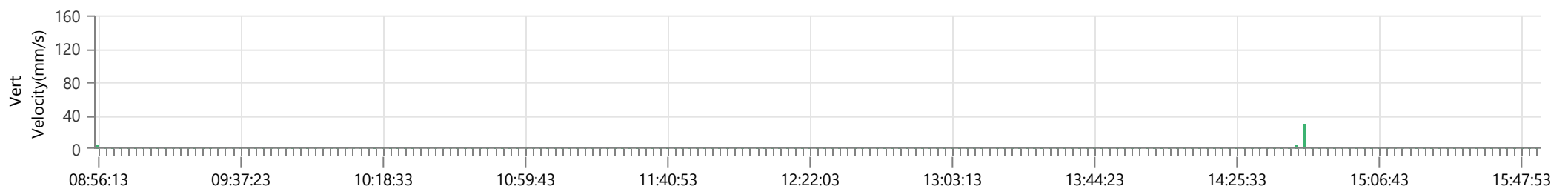
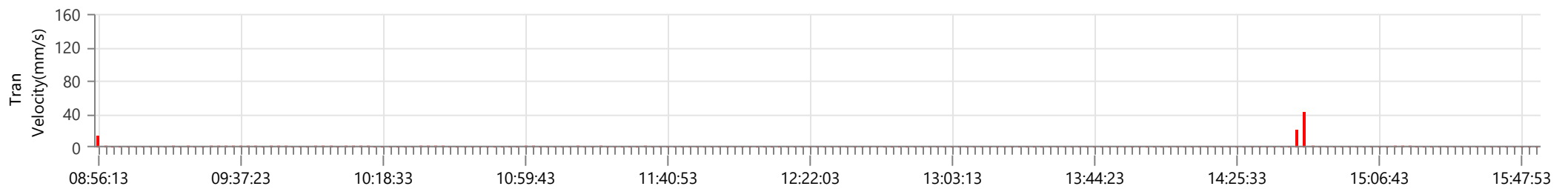
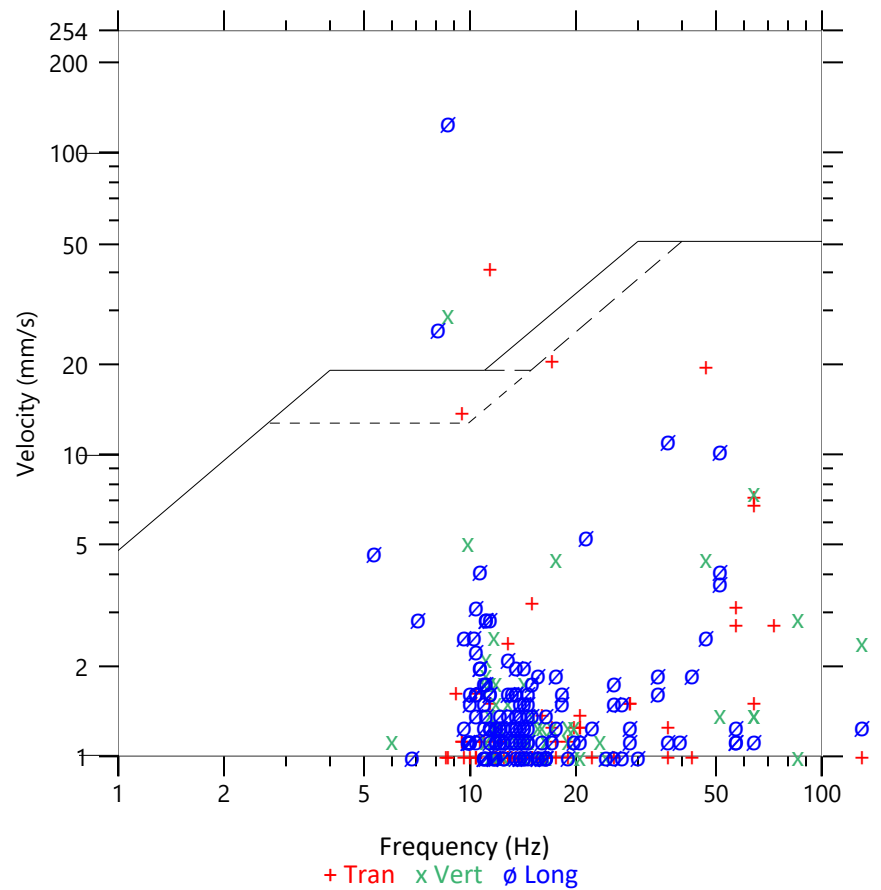
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	42.164 mm/s	29.718 mm/s	127.381 mm/s
Zero Crossing Frequency	11.4 Hz	8.7 Hz	8.7 Hz
Date	Apr 27, 2023	Apr 27, 2023	Apr 27, 2023
Time	14:45:08	14:45:08	14:45:08
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.6	4.1	3.9

Peak Vector Sum 131.259 mm/s at April 27, 2023 14:45:08

ISEE Linear Microphone
 Peak Sound Pressure Level 5.25 pa
 Date Apr 27, 2023
 Time 14:45:08
 Zero Crossing Frequency 15.5 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 27, 2023 08:56:08
Finish April 27, 2023 15:54:04
Number of Intervals/Interval 5015.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19542
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.8 volts
Battery Error (Battery low)
Unit Calibration March 16, 2022 by Instantel
Event File Name BA19542_20230427085608.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
Location: Willow estate 2
Client: WSP
User Name: EM
General: RD7948

Extended Notes Station1:51.44879 112.68232 station2 51.44880 112.68235

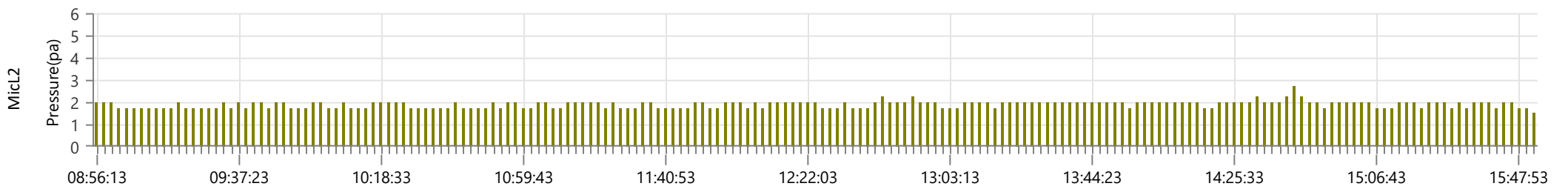
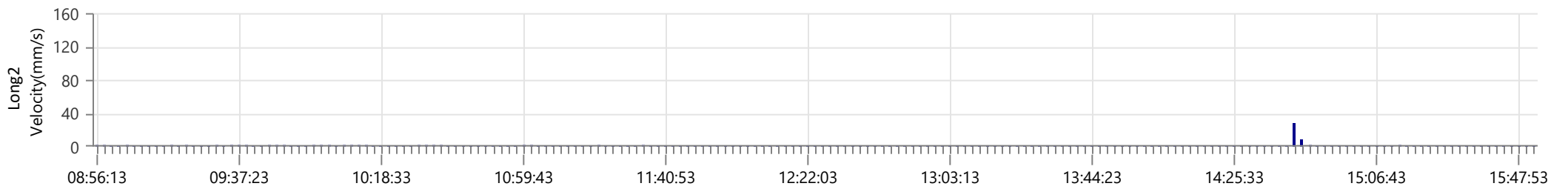
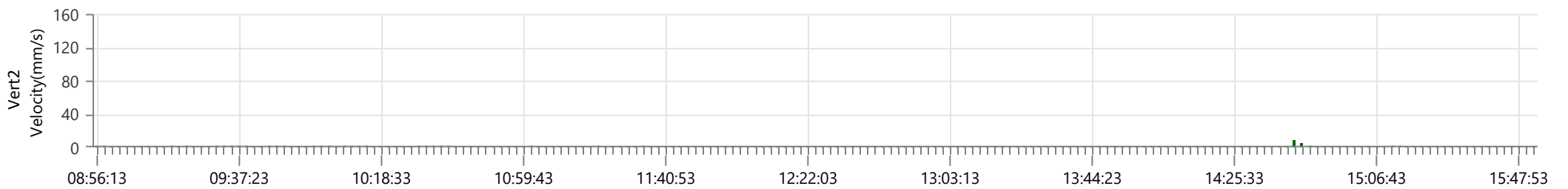
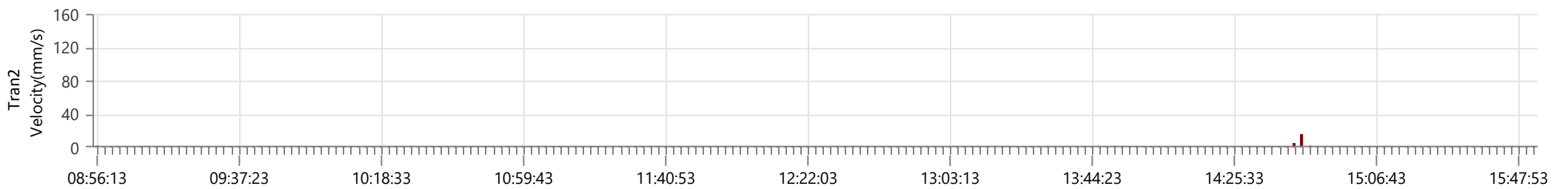
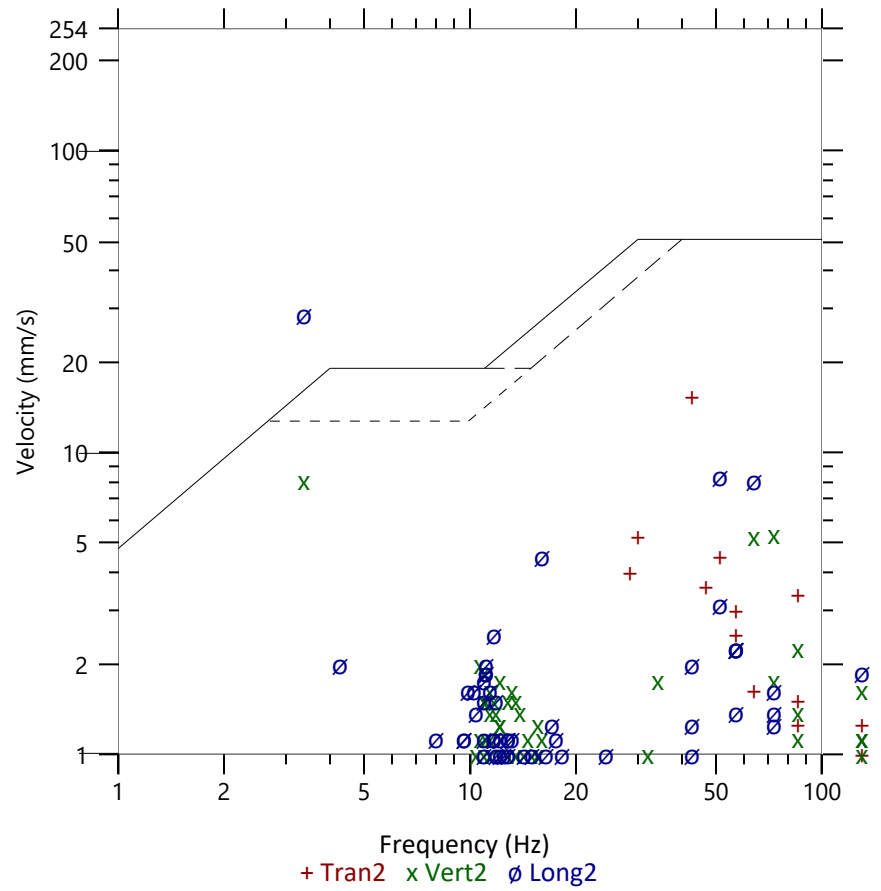
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	15.494 mm/s	8.255 mm/s	29.083 mm/s
Zero Crossing Frequency	42.7 Hz	3.4 Hz	3.4 Hz
Date	Apr 27, 2023	Apr 27, 2023	Apr 27, 2023
Time	14:45:23	14:44:08	14:44:08
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	8.1 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	4.7	3.4	3.4

Peak Vector Sum 29.837 mm/s at April 27, 2023 14:44:08

ISEE Linear Microphone
 Peak Sound Pressure Level 2.75 pa
 Date Apr 27, 2023
 Time 14:44:08
 Zero Crossing Frequency 7.5 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start April 29, 2023 09:44:42
Finish April 29, 2023 14:37:52
Number of Intervals/Interval 3518.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA20194
Model Number BlastMate III 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 6, 2023 by Instantel
Event File Name BA20194_20230429094442.IDFH
Scaled Distance 25.6 (8.1 m, 0.1 kg)

Notes
Location: willow ests
Client: WSP
User Name: EM
General: RD7948
 46 garden way
 front of house

Extended Notes 51.448788 112.68234 51.44877 112.68289

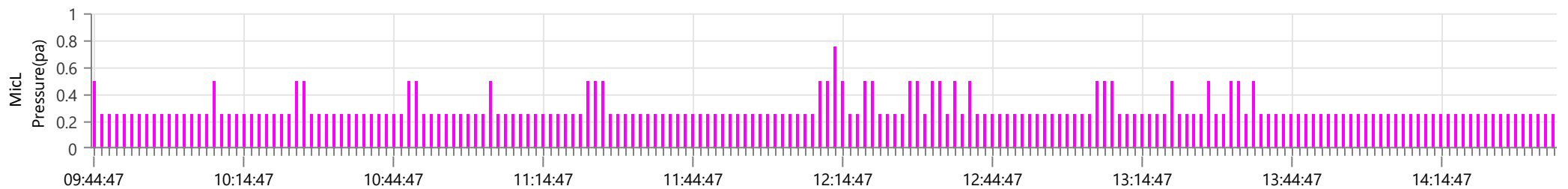
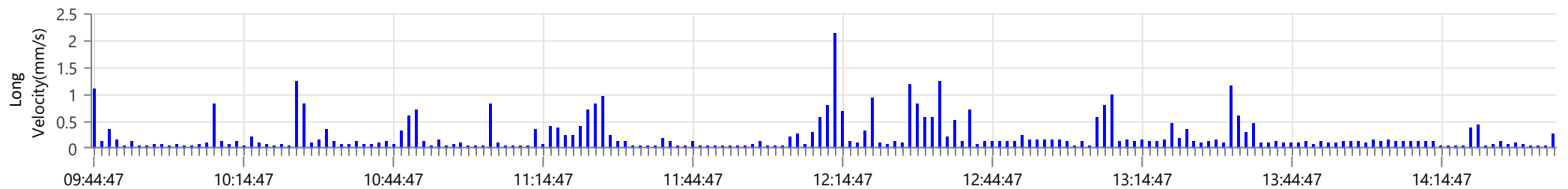
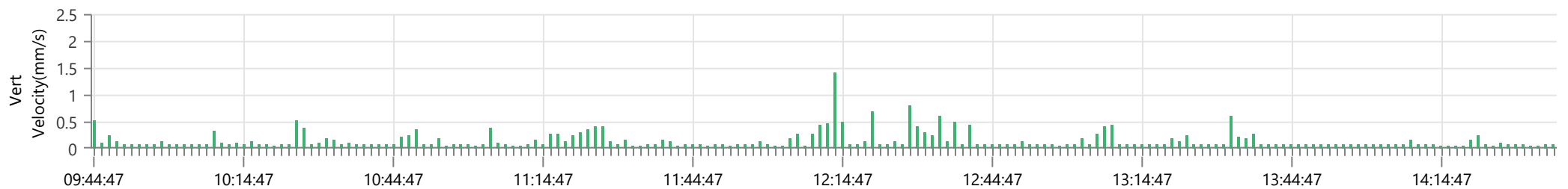
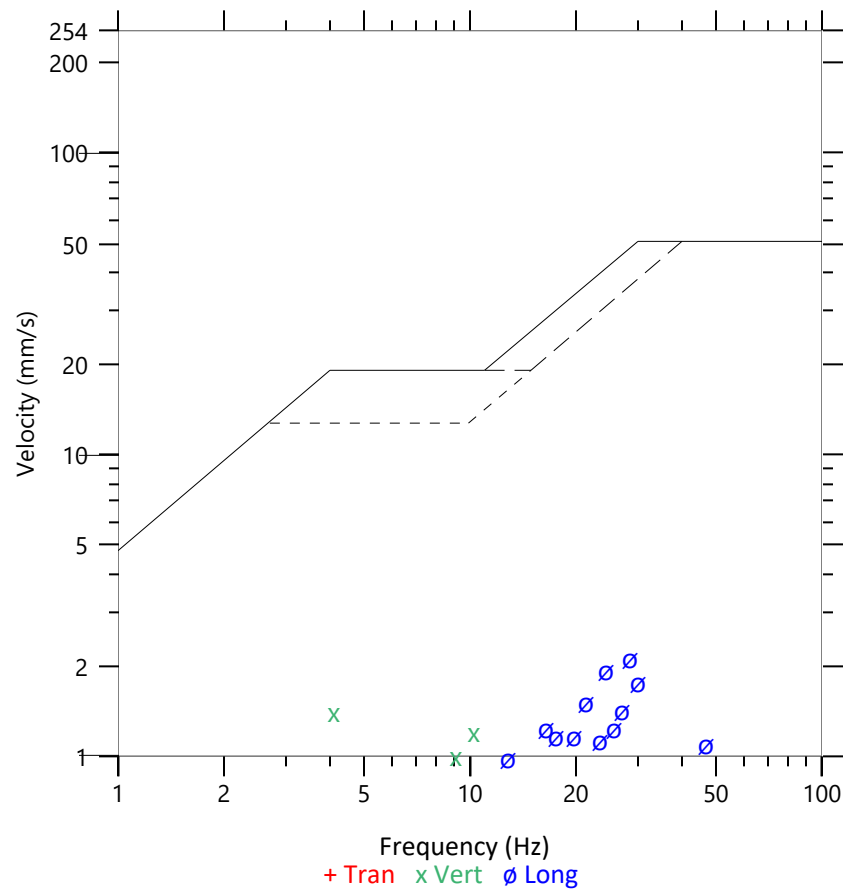
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.079 mm/s	1.429 mm/s	2.143 mm/s
Zero Crossing Frequency	>100 Hz	4.1 Hz	28.4 Hz
Date	Apr 29, 2023	Apr 29, 2023	Apr 29, 2023
Time	09:44:52	12:14:07	12:14:32
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	21.8 Hz	8.1 Hz	7.8 Hz
Overswing Ratio	5.4	4.0	3.9

Peak Vector Sum 2.153 mm/s at April 29, 2023 12:14:32

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Apr 29, 2023
 Time 12:14:32
 Zero Crossing Frequency 42.7 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 2, 2023 08:09:30
Finish May 2, 2023 15:16:31
Number of Intervals/Interval 5124.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230502080930.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

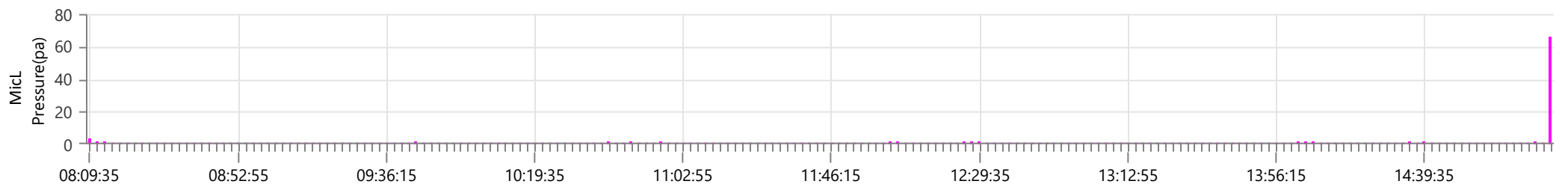
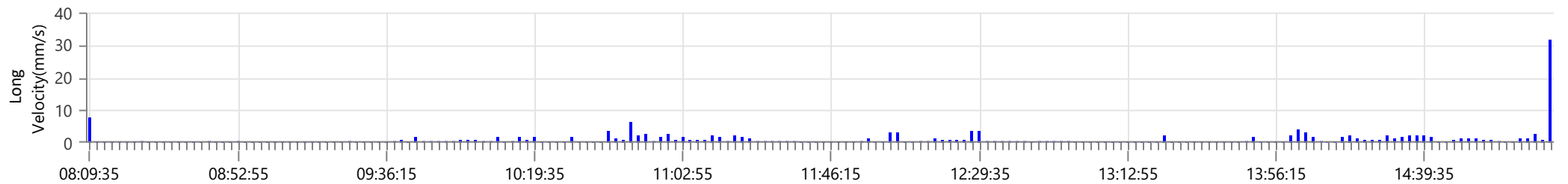
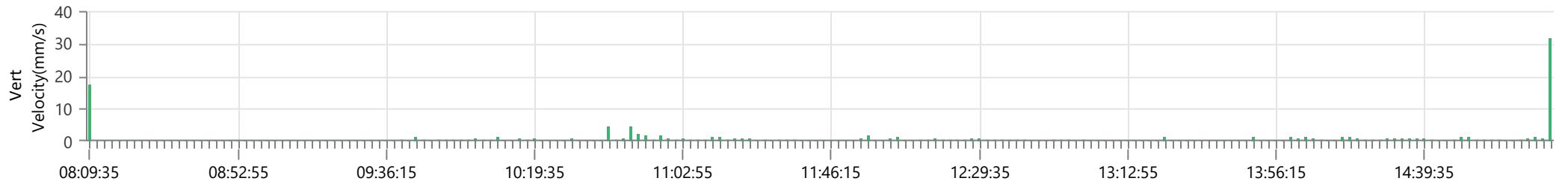
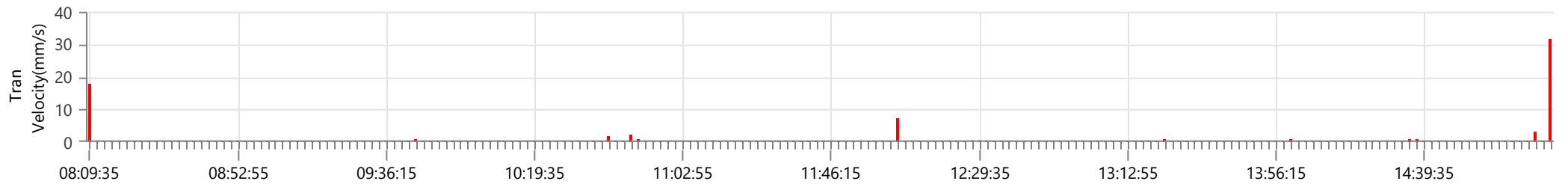
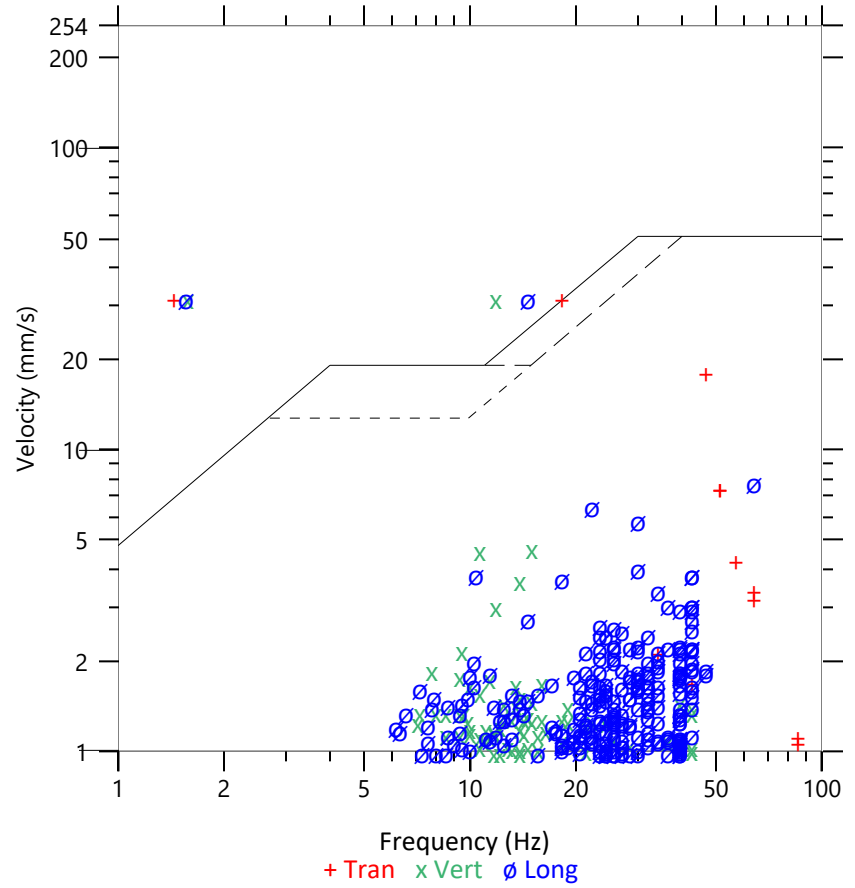
Extended Notes 51.44881 112.69236 51.44880 112.68239

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	***	***	***
Zero Crossing Frequency	18.3 Hz	11.9 Hz	14.6 Hz
Date	May 2, 2023	May 2, 2023	May 2, 2023
Time	15:16:25	15:16:25	15:16:25
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	7.7 Hz	23.8 Hz
Overswing Ratio	3.4	3.5	4.9
Peak Vector Sum	*** at May 2, 2023 15:16:25		

ISEE Linear Microphone
 Peak Sound Pressure Level 65.75 pa
 Date May 2, 2023
 Time 15:16:30
 Zero Crossing Frequency 3.4 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 2, 2023 08:09:30
Finish May 2, 2023 15:16:31
Number of Intervals/Interval 5124.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230502080930.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

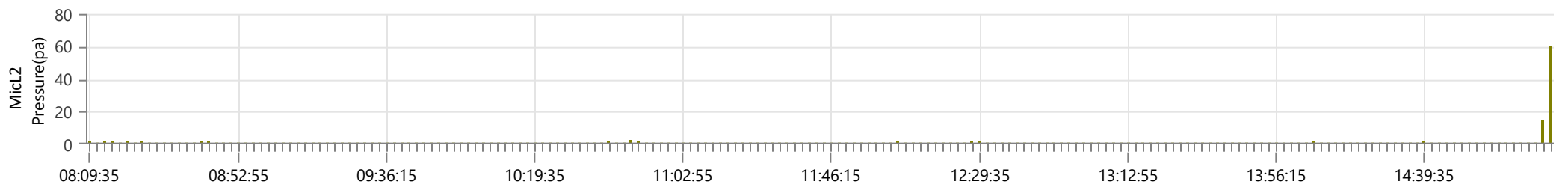
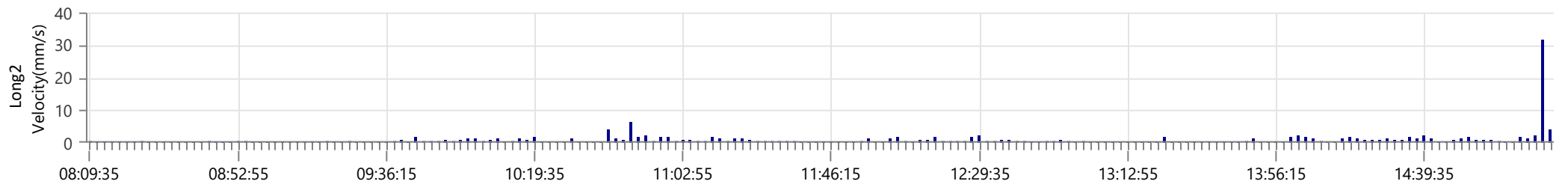
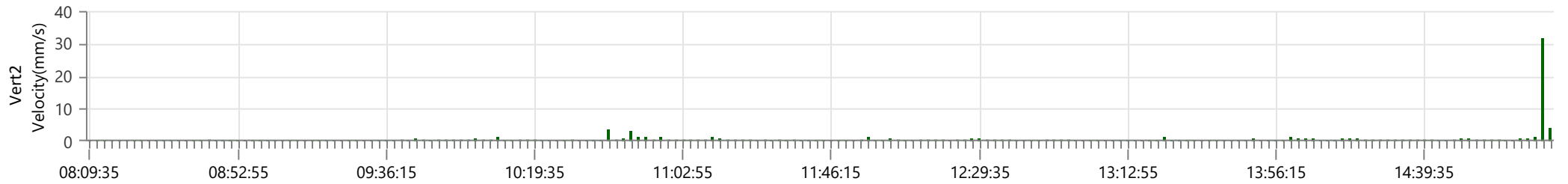
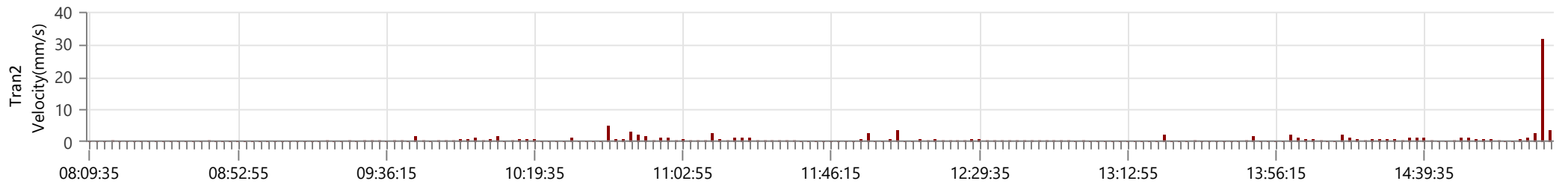
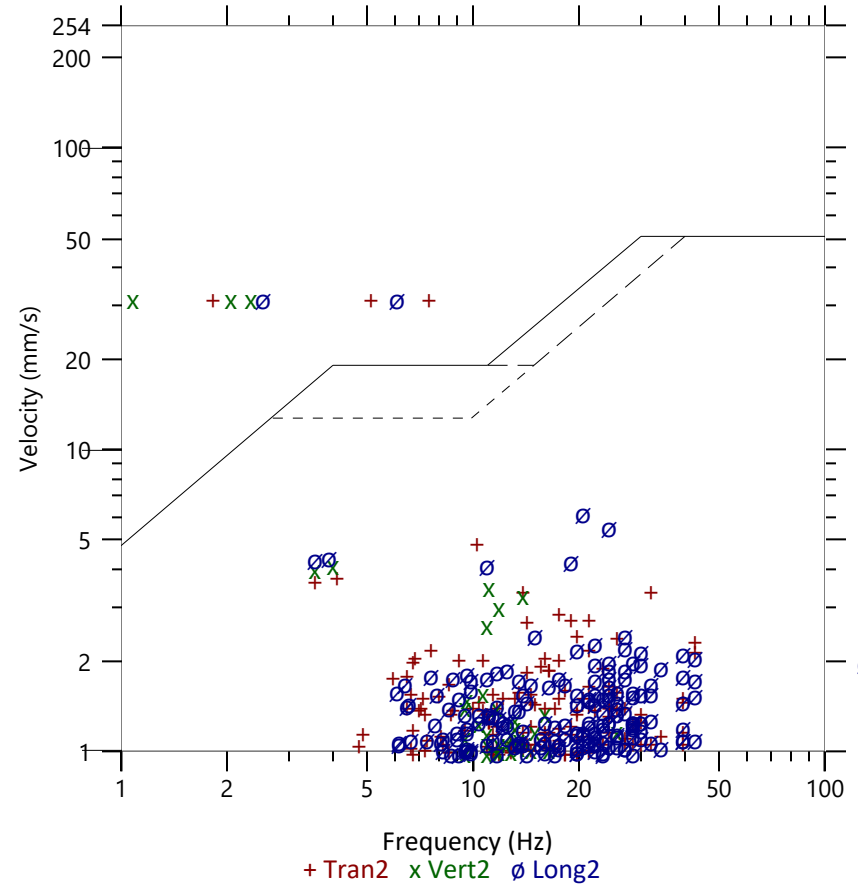
Extended Notes 51.44881 112.69236 51.44880 112.68239

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	***	***	***
Zero Crossing Frequency	7.5 Hz	2.1 Hz	6.1 Hz
Date	May 2, 2023	May 2, 2023	May 2, 2023
Time	15:16:10	15:16:10	15:16:10
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	3.8	3.5	3.6
Peak Vector Sum	*** at May 2, 2023 15:16:10		

ISEE Linear Microphone
 Peak Sound Pressure Level 61.75 pa
 Date May 2, 2023
 Time 15:16:25
 Zero Crossing Frequency 4.5 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 3, 2023 07:43:04
Finish May 3, 2023 15:08:36
Number of Intervals/Interval 5346.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230503074304.IDFH
Scaled Distance 28.5 (9.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44880 112.68239 51.44881 112.68244

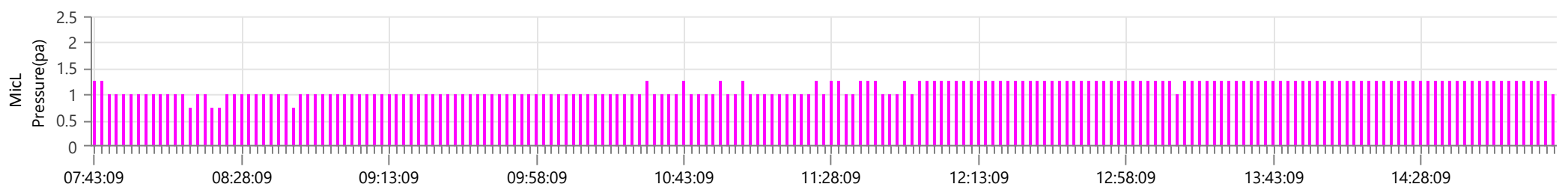
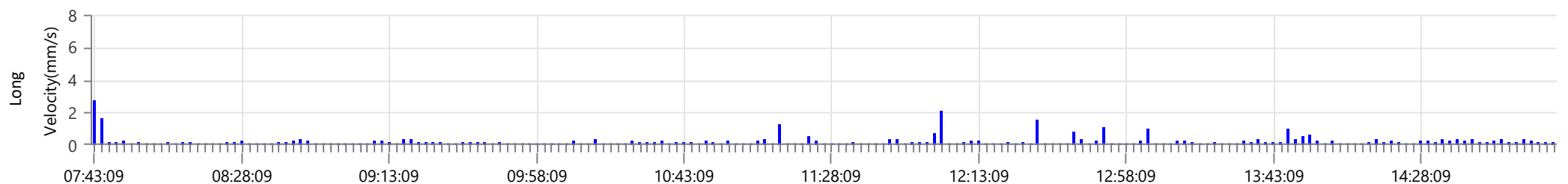
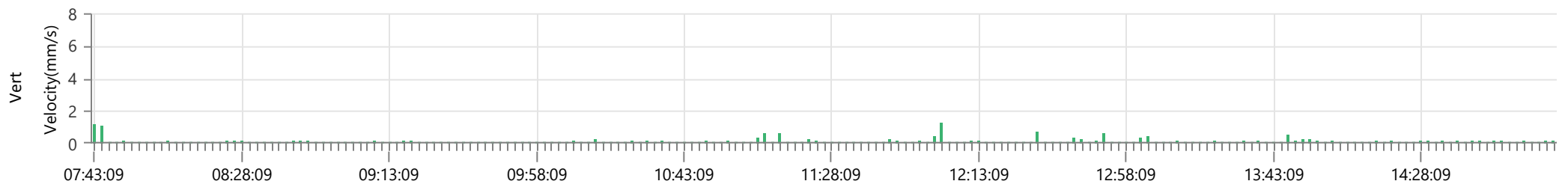
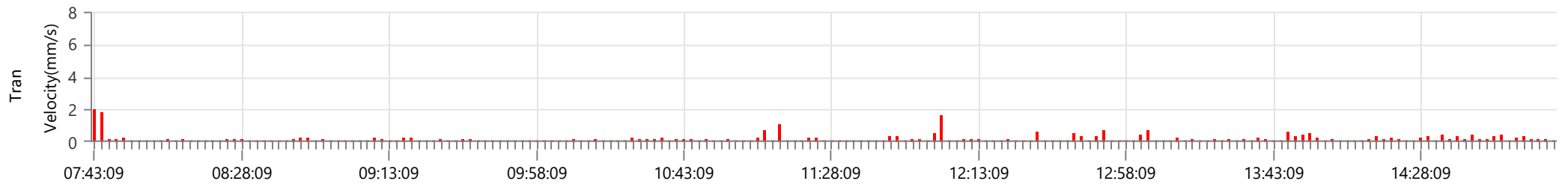
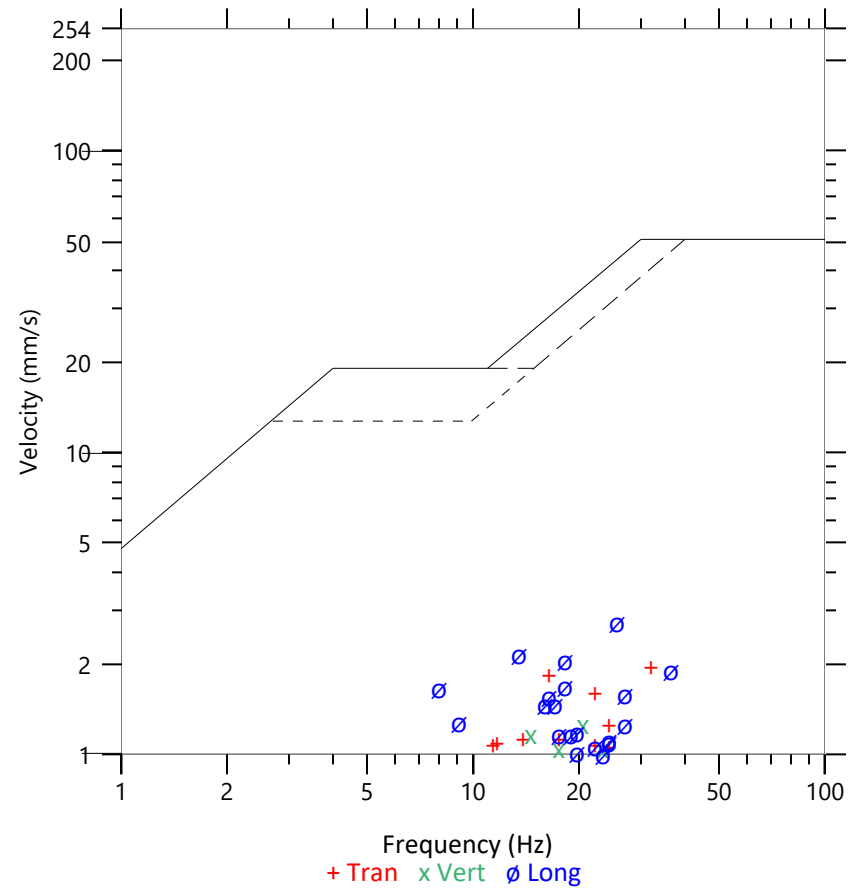
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.000 mm/s	1.286 mm/s	2.778 mm/s
Zero Crossing Frequency	32.0 Hz	20.5 Hz	25.6 Hz
Date	May 3, 2023	May 3, 2023	May 3, 2023
Time	07:44:34	12:02:24	07:44:04
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.4 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.8	3.5	3.4

Peak Vector Sum 2.810 mm/s at May 3, 2023 07:44:04

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 3, 2023
 Time 07:44:04
 Zero Crossing Frequency 28.4 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 3, 2023 07:43:04
Finish May 3, 2023 15:08:36
Number of Intervals/Interval 5346.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230503074304.IDFH
Scaled Distance 28.5 (9.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44880 112.68239 51.44881 112.68244

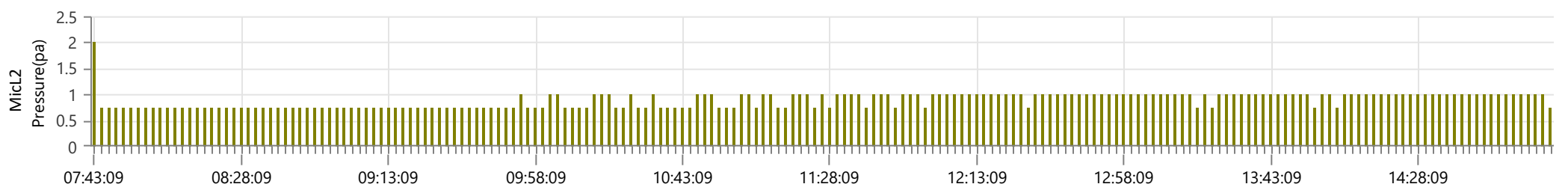
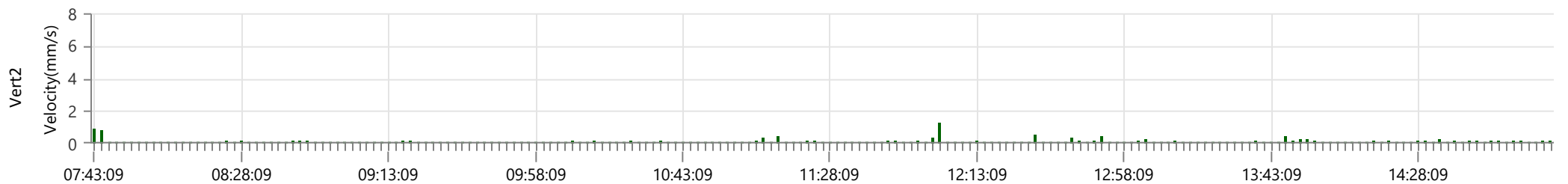
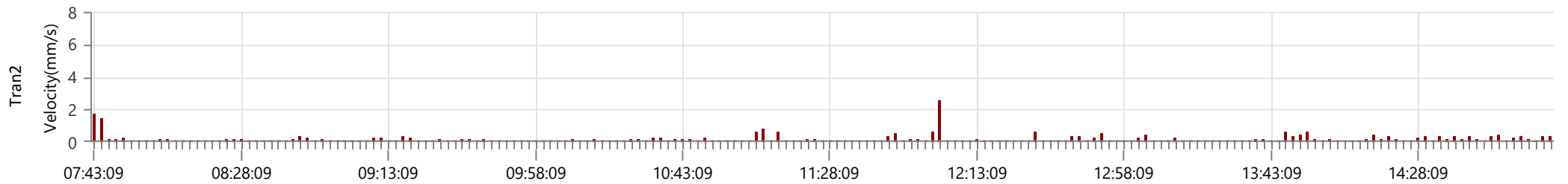
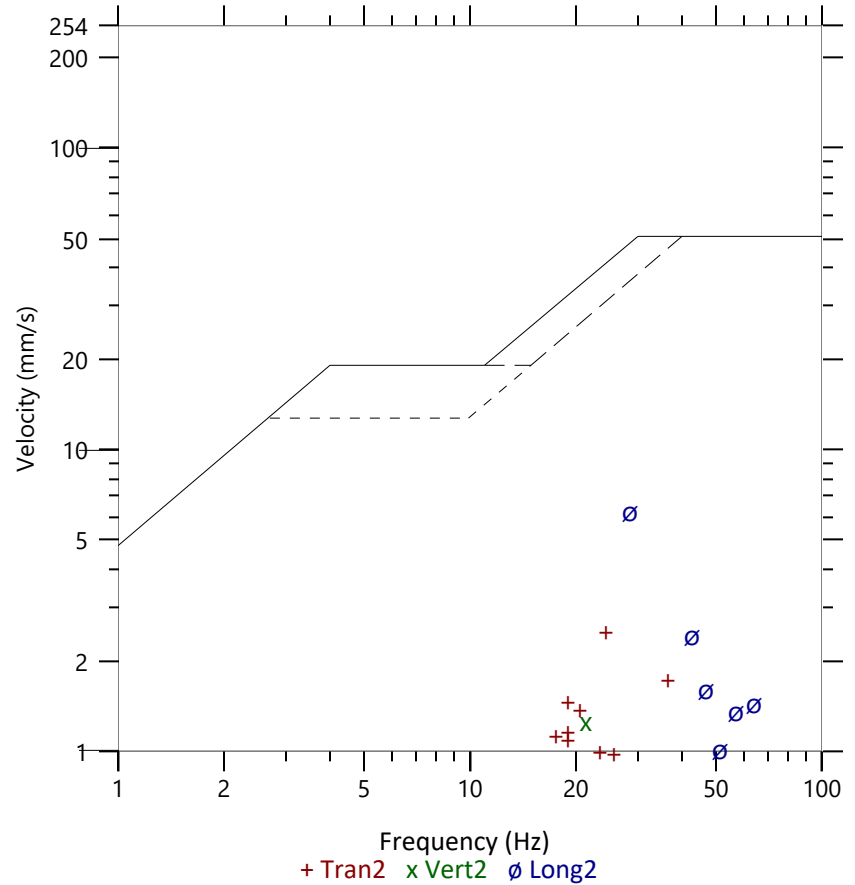
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.540 mm/s	1.286 mm/s	6.366 mm/s
Zero Crossing Frequency	24.4 Hz	21.3 Hz	28.4 Hz
Date	May 3, 2023	May 3, 2023	May 3, 2023
Time	12:02:24	12:02:24	07:44:34
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.5 Hz	68.3 Hz
Overswing Ratio	3.6	3.7	1.6

Peak Vector Sum 6.547 mm/s at May 3, 2023 07:44:34

ISEE Linear Microphone
Peak Sound Pressure Level 2.00 pa
Date May 3, 2023
Time 07:44:34
Zero Crossing Frequency 34.1 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 4, 2023 08:49:02
Finish May 4, 2023 15:54:20
Number of Intervals/Interval 5103.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230504084902.IDFH
Scaled Distance 28.5 (9.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44880 112.68241 51.44884 112.68243

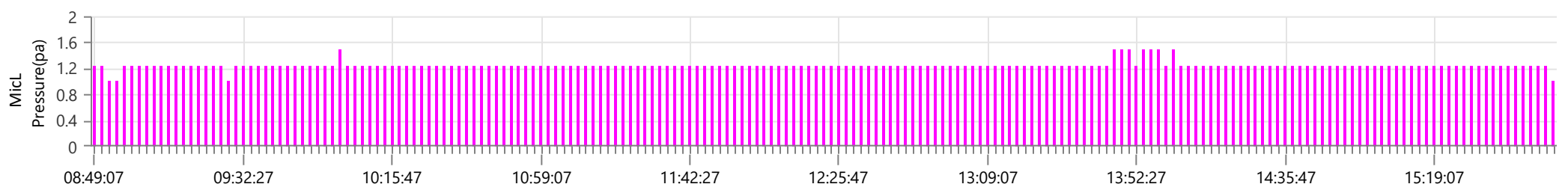
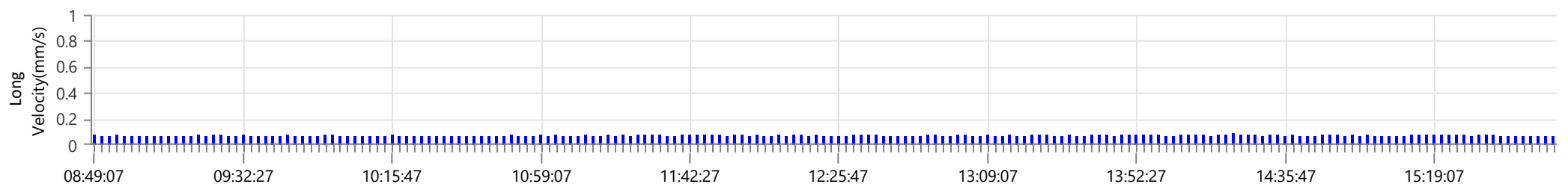
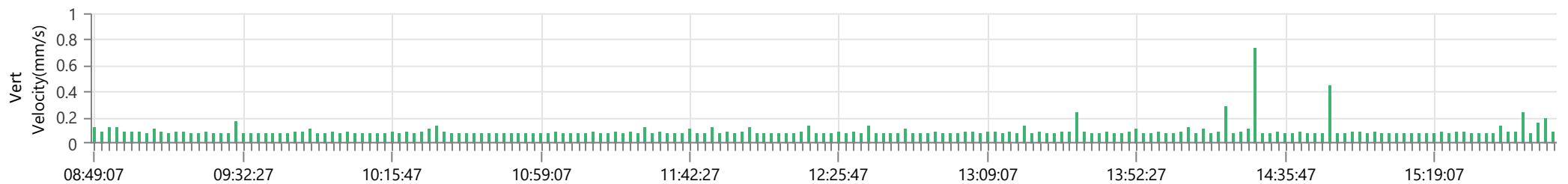
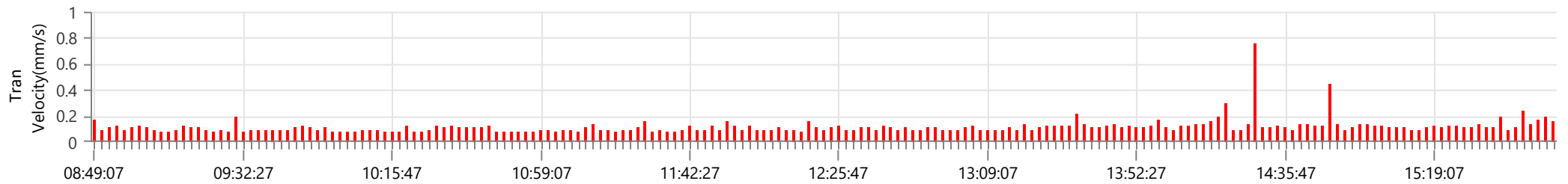
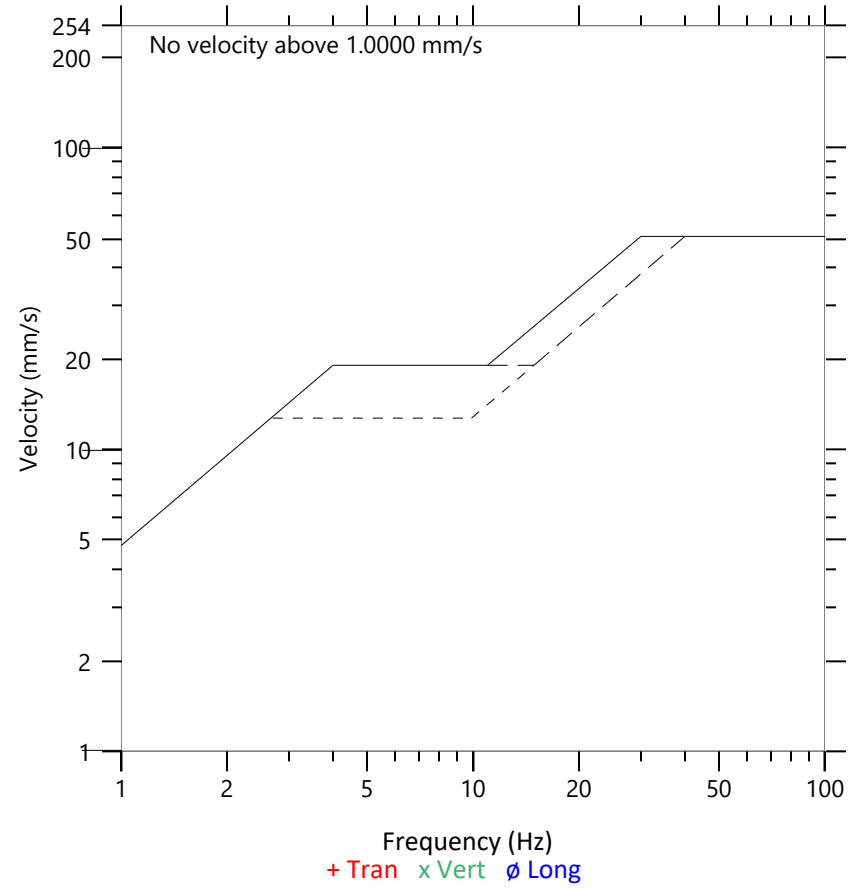
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.762 mm/s	0.730 mm/s	0.095 mm/s
Zero Crossing Frequency	22.3 Hz	24.4 Hz	>100 Hz
Date	May 4, 2023	May 4, 2023	May 4, 2023
Time	14:27:27	14:27:27	14:21:52
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	3.5	3.7	5.3

Peak Vector Sum 0.839 mm/s at May 4, 2023 14:27:27

ISEE Linear Microphone	
Peak Sound Pressure Level	1.50 pa
Date	May 4, 2023
Time	10:01:52
Zero Crossing Frequency	>100 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 4, 2023 08:49:02
Finish May 4, 2023 15:54:20
Number of Intervals/Interval 5103.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230504084902.IDFH
Scaled Distance 28.5 (9.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44880 112.68241 51.44884 112.68243

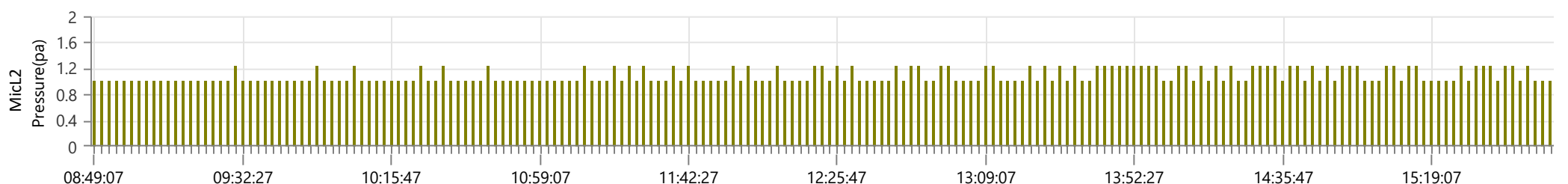
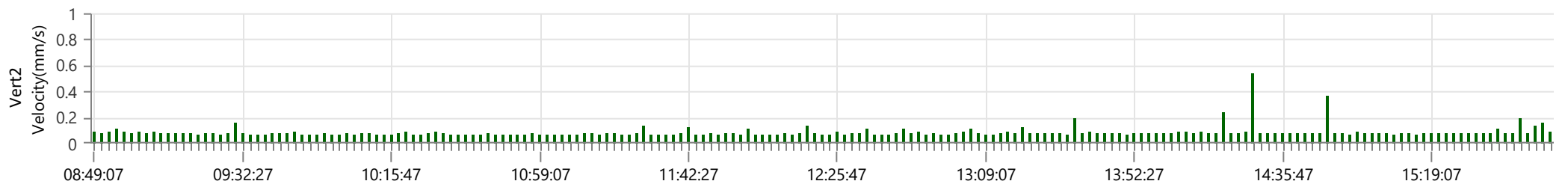
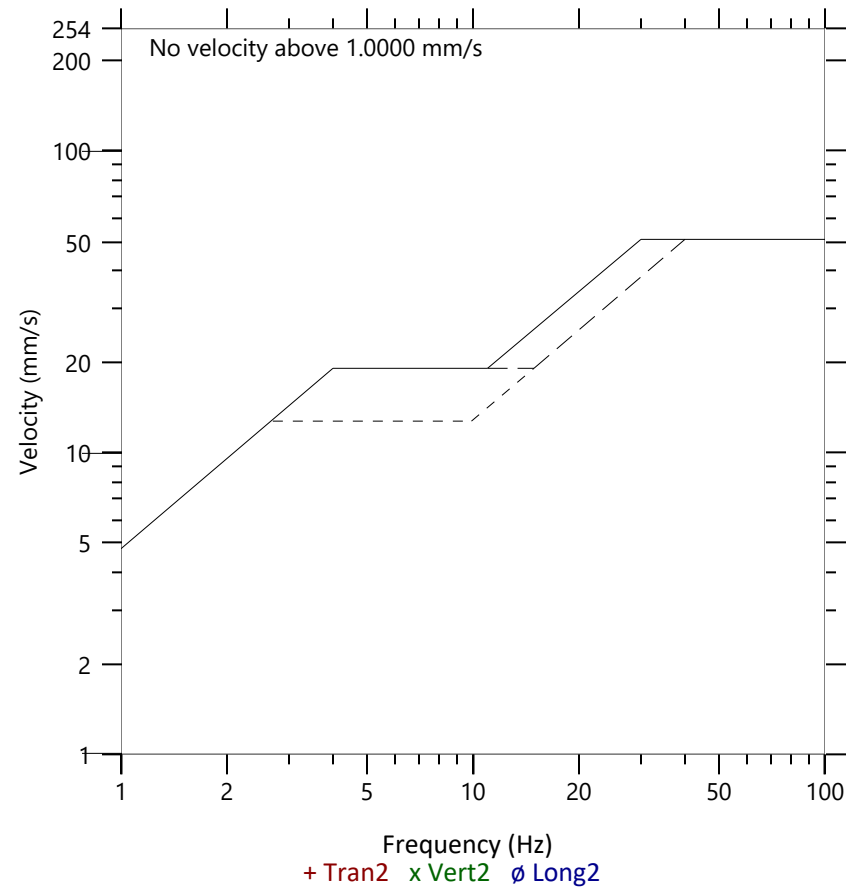
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.746 mm/s	0.540 mm/s	0.079 mm/s
Zero Crossing Frequency	26.9 Hz	24.4 Hz	51.2 Hz
Date	May 4, 2023	May 4, 2023	May 4, 2023
Time	14:27:27	14:27:27	08:49:07
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.8	3.5	15.3

Peak Vector Sum 0.805 mm/s at May 4, 2023 14:27:27

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 4, 2023
 Time 09:32:22
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 5, 2023 06:32:06
Finish May 5, 2023 17:48:55
Number of Intervals/Interval 8121.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230505063206.IDFH
Scaled Distance 31.6 (10.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44883 112.68255 51.44885 112.68245

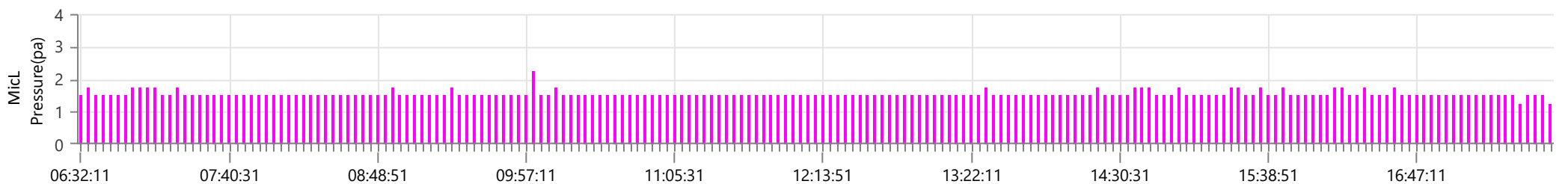
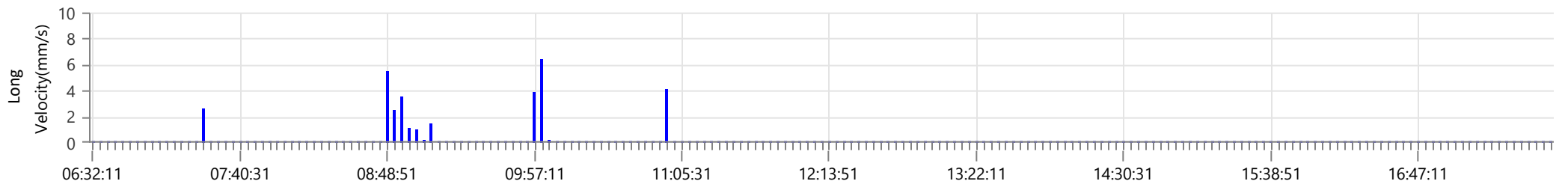
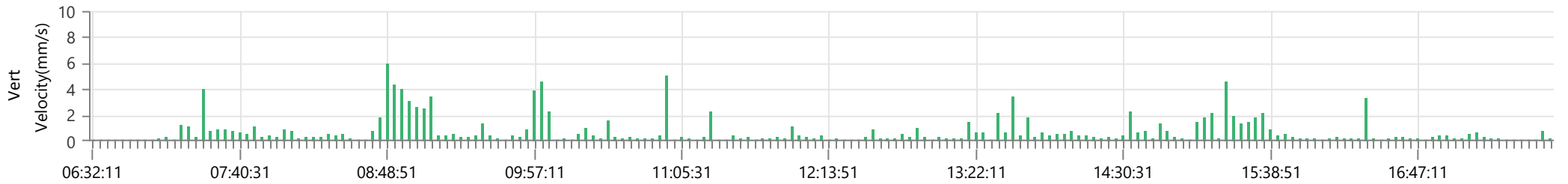
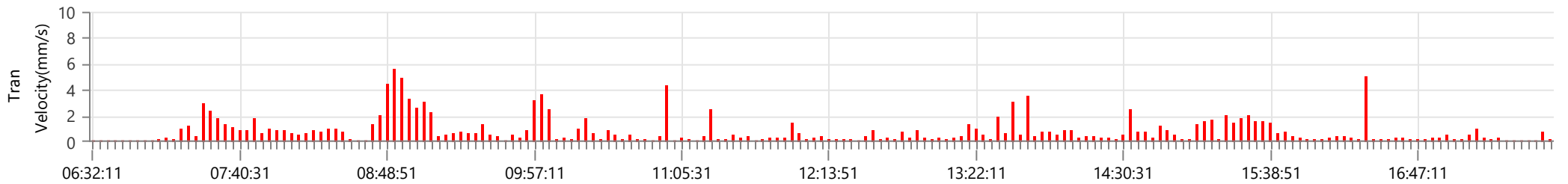
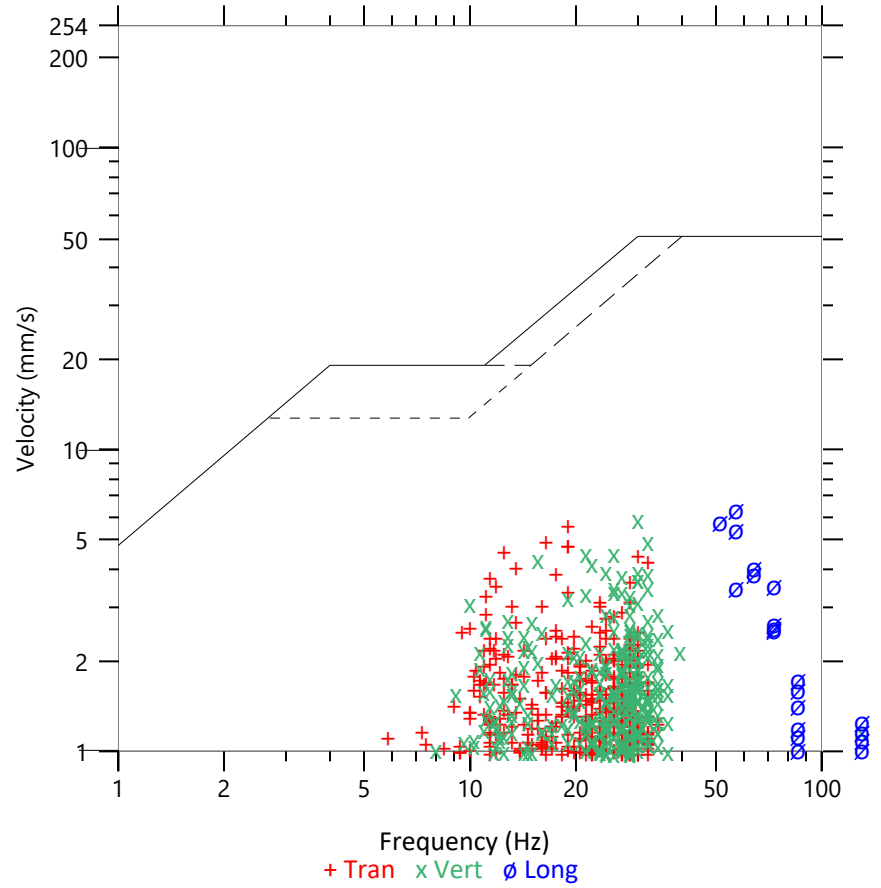
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	5.651 mm/s	5.985 mm/s	6.382 mm/s
Zero Crossing Frequency	19.0 Hz	30.1 Hz	56.9 Hz
Date	May 5, 2023	May 5, 2023	May 5, 2023
Time	08:54:21	08:51:06	10:03:31
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	3.5	3.8	5.3

Peak Vector Sum 7.519 mm/s at May 5, 2023 08:51:06

ISEE Linear Microphone
 Peak Sound Pressure Level 2.25 pa
 Date May 5, 2023
 Time 10:03:36
 Zero Crossing Frequency 64.0 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 5, 2023 06:32:06
Finish May 5, 2023 17:48:55
Number of Intervals/Interval 8121.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230505063206.IDFH
Scaled Distance 31.6 (10.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44883 112.68255 51.44885 112.68245

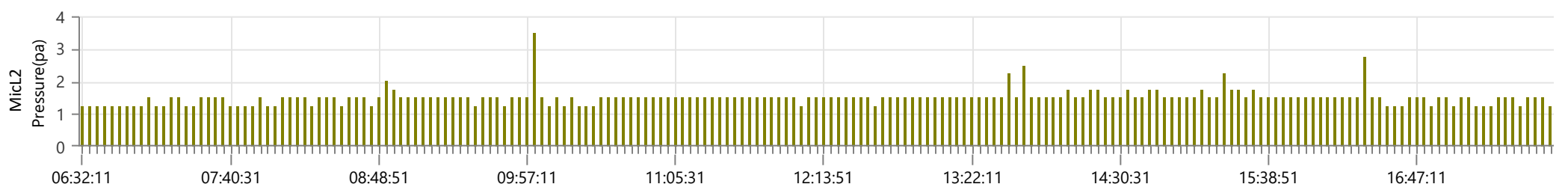
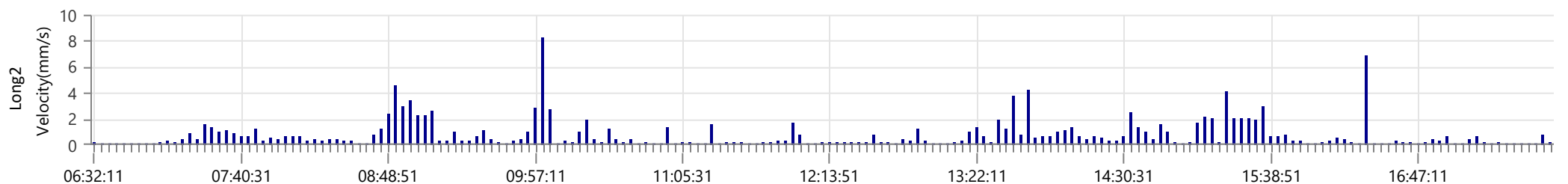
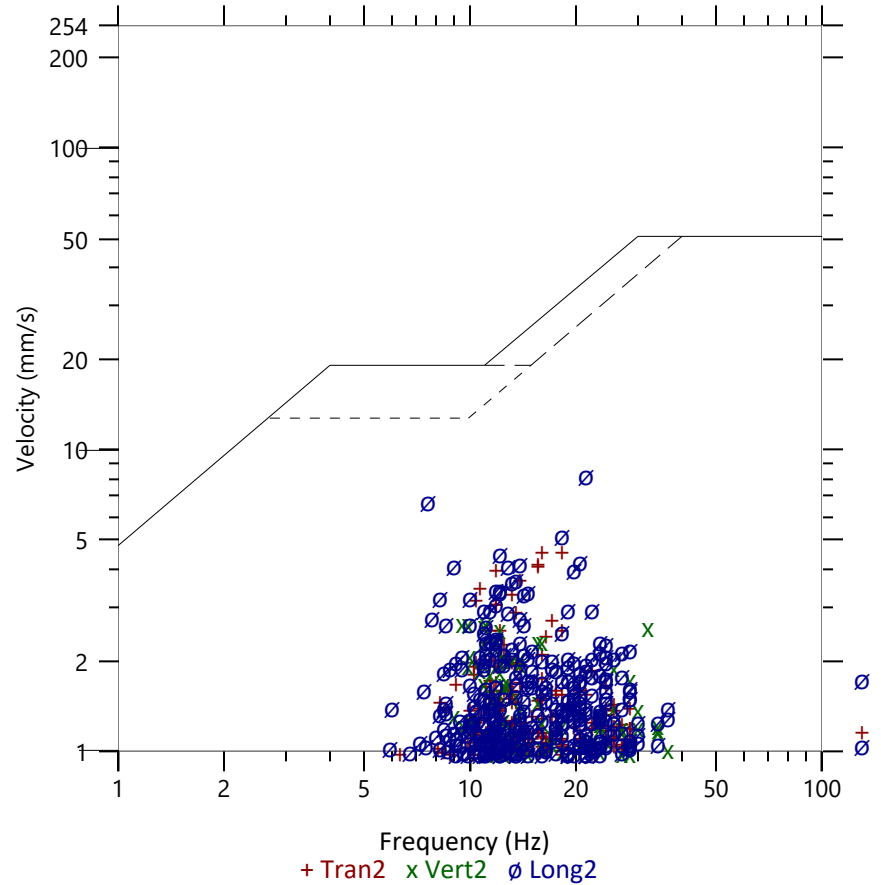
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	4.699 mm/s	2.683 mm/s	8.271 mm/s
Zero Crossing Frequency	16.0 Hz	11.1 Hz	21.3 Hz
Date	May 5, 2023	May 5, 2023	May 5, 2023
Time	08:54:21	08:54:11	10:03:36
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	10.6 Hz	7.7 Hz	8.3 Hz
Overswing Ratio	5.9	3.6	3.8

Peak Vector Sum 8.665 mm/s at May 5, 2023 10:03:36

ISEE Linear Microphone
 Peak Sound Pressure Level 3.50 pa
 Date May 5, 2023
 Time 10:03:36
 Zero Crossing Frequency 23.3 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 6, 2023 05:36:20
Finish May 6, 2023 13:41:49
Number of Intervals/Interval 5825.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230506053620.IDFH
Scaled Distance 31.6 (10.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44883 112.68255 51.44885 112.68245

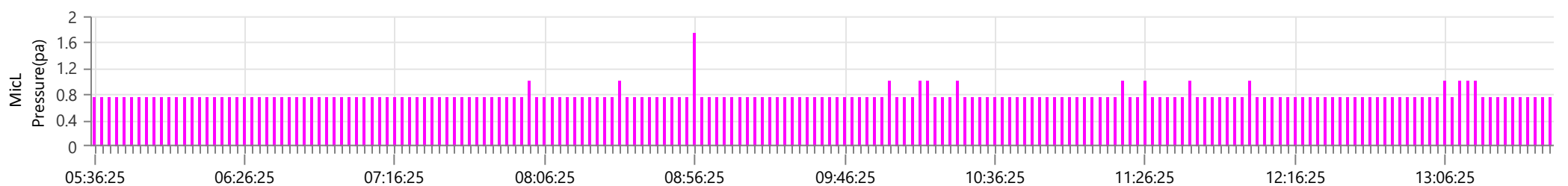
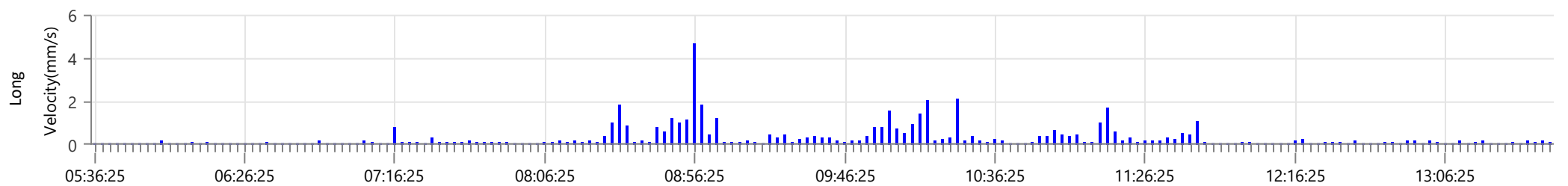
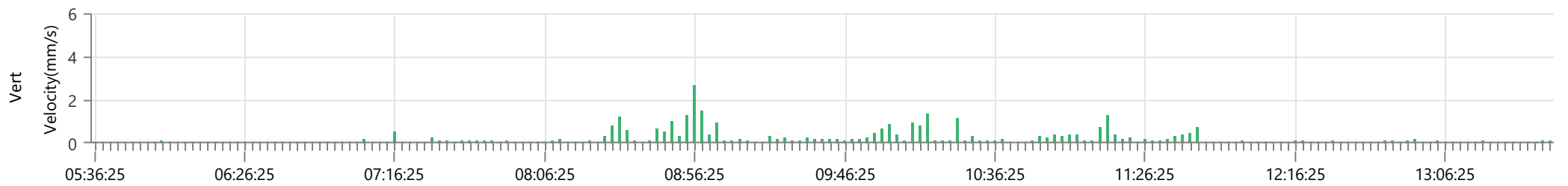
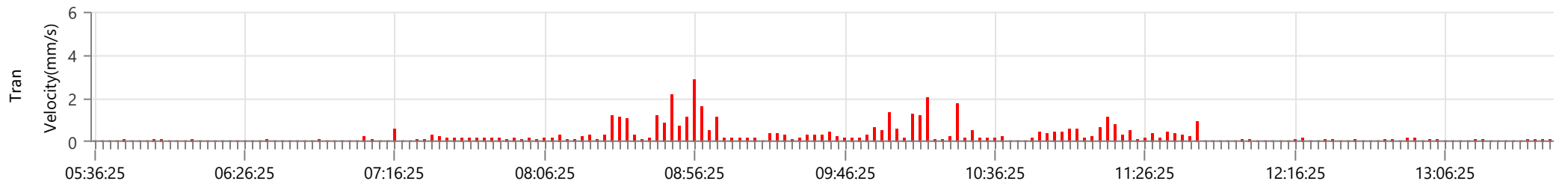
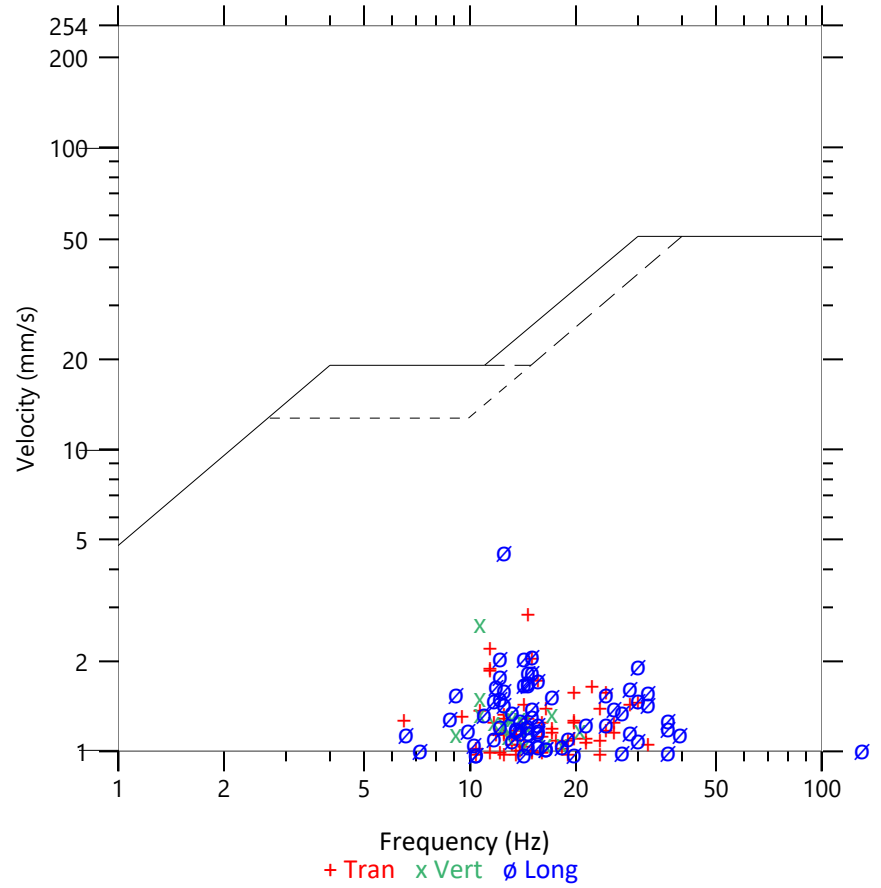
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.921 mm/s	2.715 mm/s	4.667 mm/s
Zero Crossing Frequency	14.6 Hz	10.7 Hz	12.5 Hz
Date	May 6, 2023	May 6, 2023	May 6, 2023
Time	08:58:35	08:58:35	08:58:35
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	9.8 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	4.6	3.9	3.5

Peak Vector Sum 5.367 mm/s at May 6, 2023 08:58:35

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 6, 2023
 Time 08:58:35
 Zero Crossing Frequency 16.0 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 6, 2023 05:36:20
Finish May 6, 2023 13:41:49
Number of Intervals/Interval 5825.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230506053620.IDFH
Scaled Distance 31.6 (10.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General:RD7948

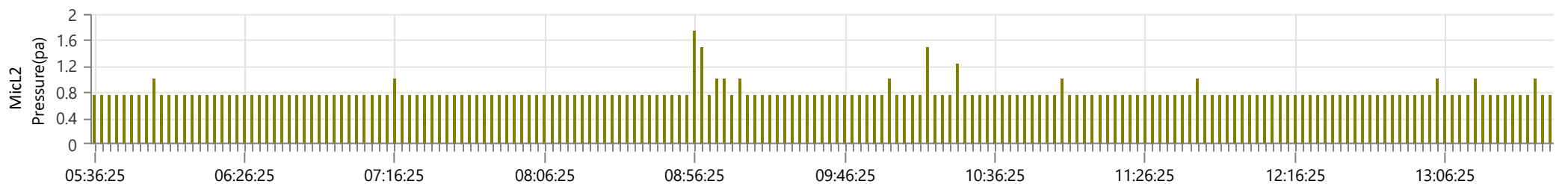
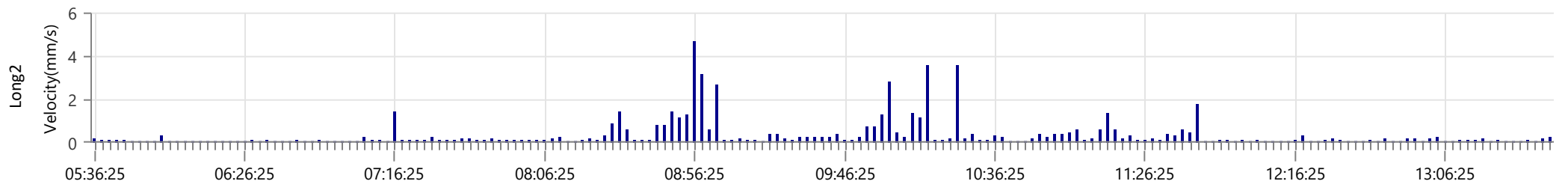
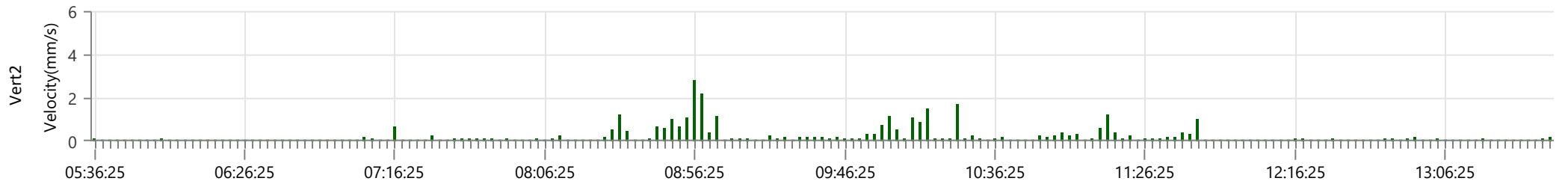
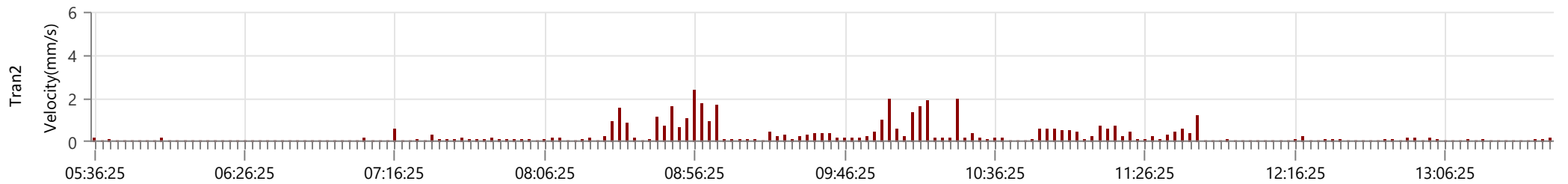
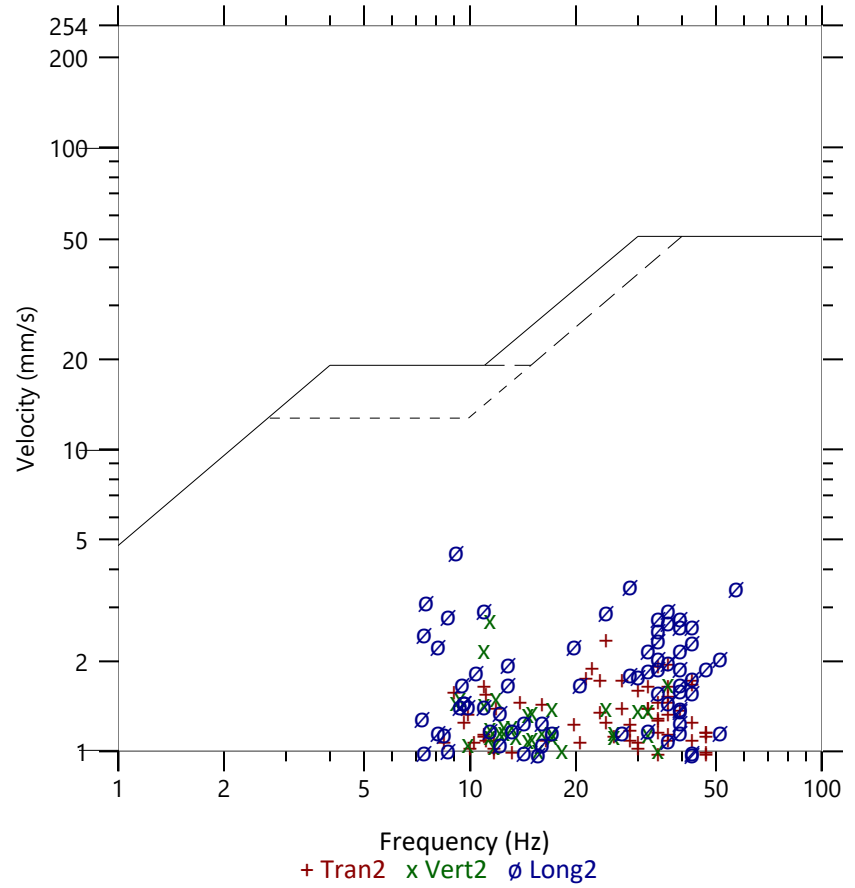
Extended Notes 51.44883 112.68255 51.44885 112.68245

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.381 mm/s	2.794 mm/s	4.667 mm/s
Zero Crossing Frequency	24.4 Hz	11.4 Hz	9.1 Hz
Date	May 6, 2023	May 6, 2023	May 6, 2023
Time	08:58:35	08:58:35	08:58:35
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.0	3.7	3.8
Peak Vector Sum	5.492 mm/s at May 6, 2023 08:58:35		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 6, 2023
 Time 08:58:35
 Zero Crossing Frequency 14.6 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 6, 2023 05:55:44
Finish May 6, 2023 13:48:19
Number of Intervals/Interval 5671.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230506055544.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7947
24 willow point KCB
User Name: EM
General: rear of house facing river

Extended Notes 51.44945 112.68051 51.44943 112.68048

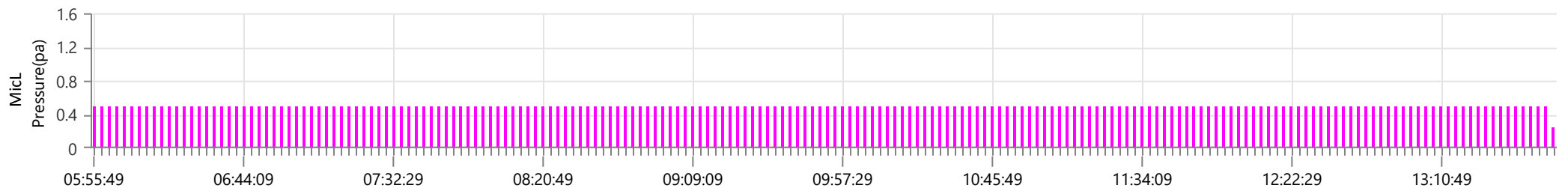
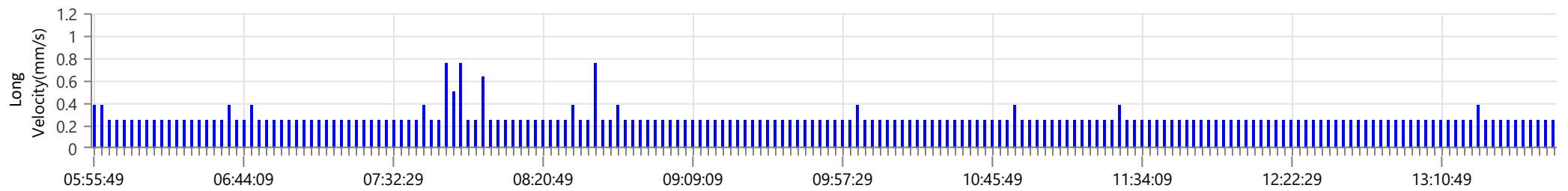
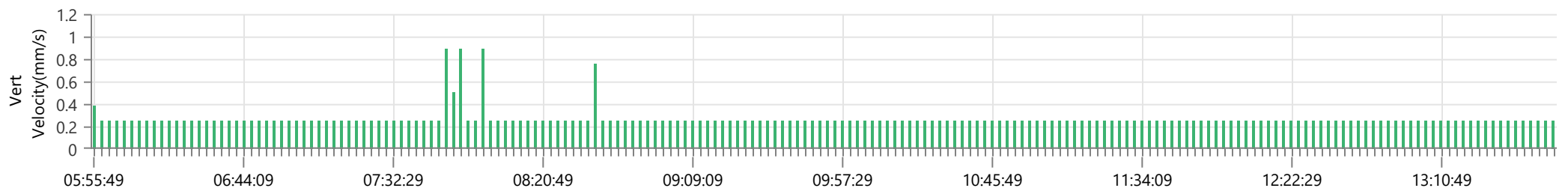
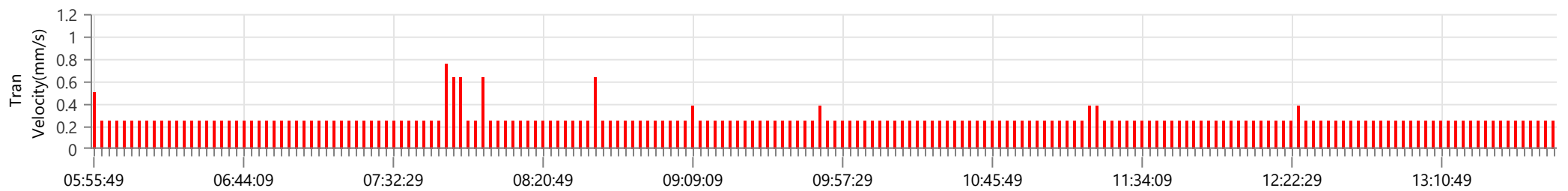
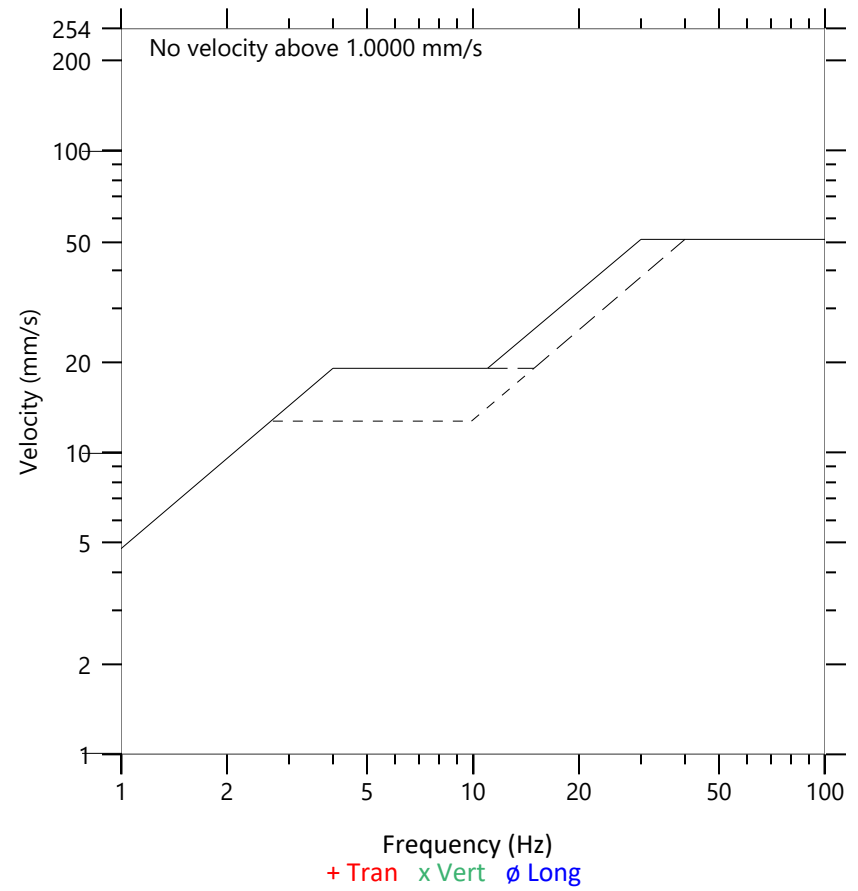
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.762 mm/s	0.889 mm/s	0.762 mm/s
Zero Crossing Frequency	19.7 Hz	32.0 Hz	25.6 Hz
Date	May 6, 2023	May 6, 2023	May 6, 2023
Time	07:51:34	07:51:39	07:51:39
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.8 Hz	8.5 Hz	8.3 Hz
Overswing Ratio	3.3	3.2	3.4

Peak Vector Sum 1.032 mm/s at May 6, 2023 07:54:14

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 6, 2023
 Time 05:56:14
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 6, 2023 05:55:44
Finish May 6, 2023 13:48:19
Number of Intervals/Interval 5671.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230506055544.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7947
24 willow point KCB
User Name: EM
General: rear of house facing river

Extended Notes 51.44945 112.68051 51.44943 112.68048

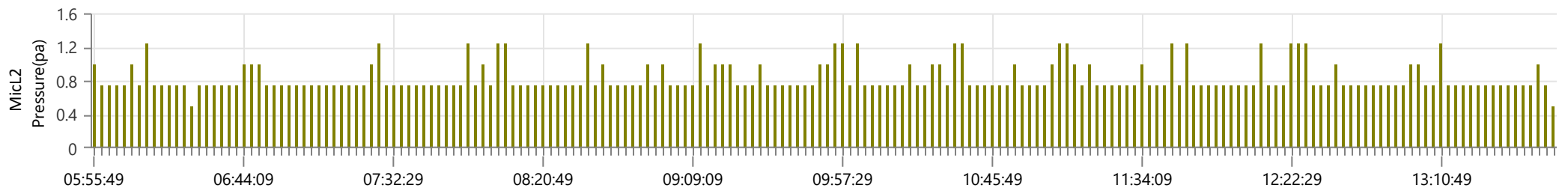
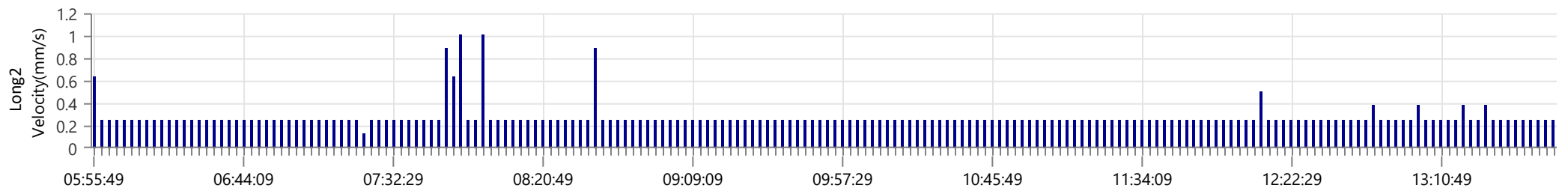
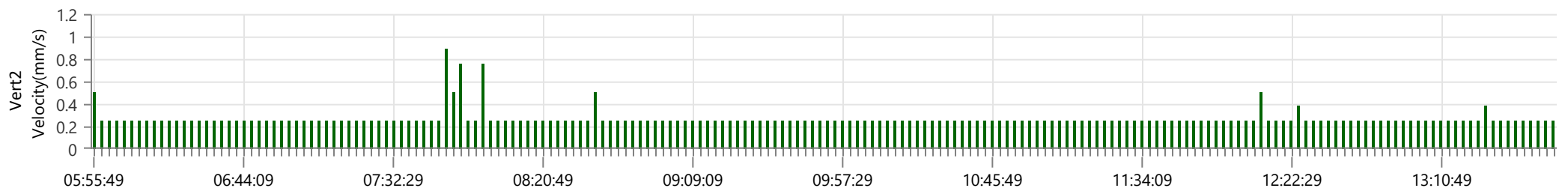
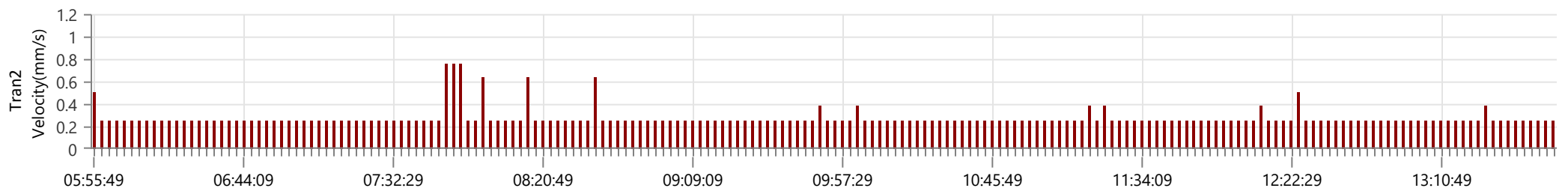
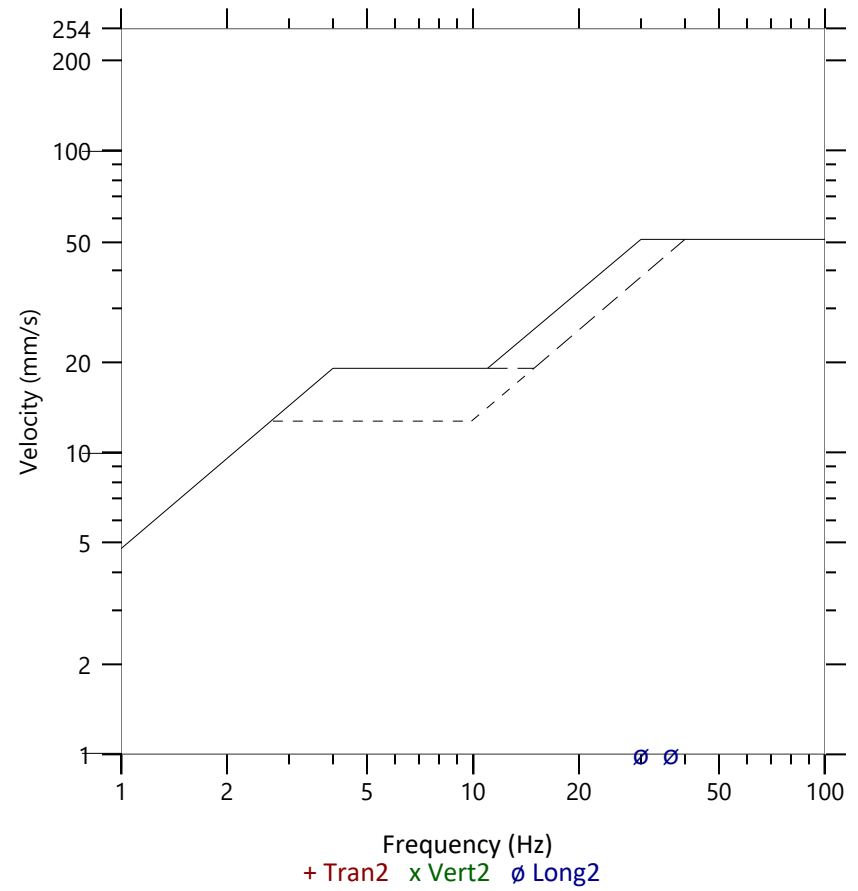
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.762 mm/s	0.889 mm/s	1.016 mm/s
Zero Crossing Frequency	17.1 Hz	34.1 Hz	36.6 Hz
Date	May 6, 2023	May 6, 2023	May 6, 2023
Time	07:51:34	07:51:39	07:54:14
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	9.2 Hz
Overswing Ratio	3.4	3.6	7.8

Peak Vector Sum 1.122 mm/s at May 6, 2023 07:51:39

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 6, 2023
 Time 06:12:49
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 8, 2023 06:04:04
Finish May 8, 2023 18:16:15
Number of Intervals/Interval 8786.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230508060404.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44878 112.68254 51.44882 112.68244

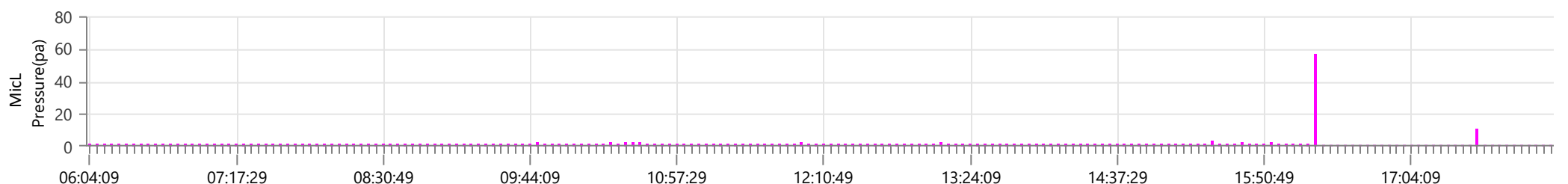
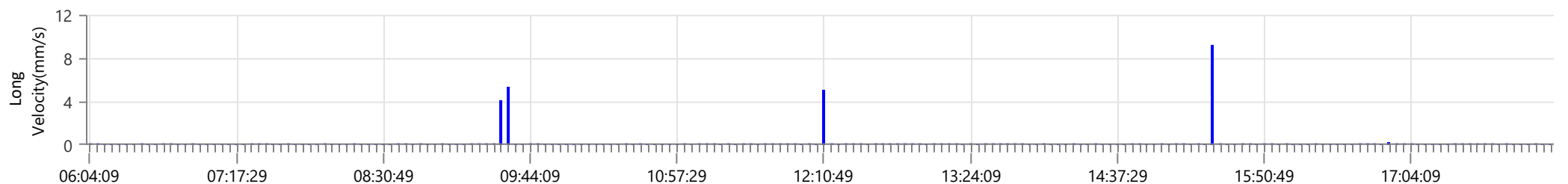
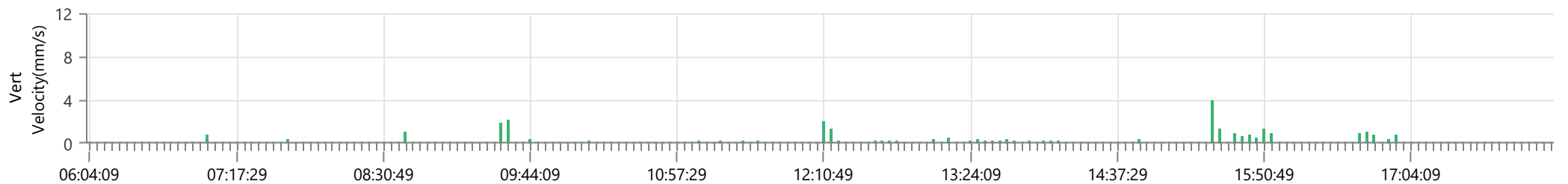
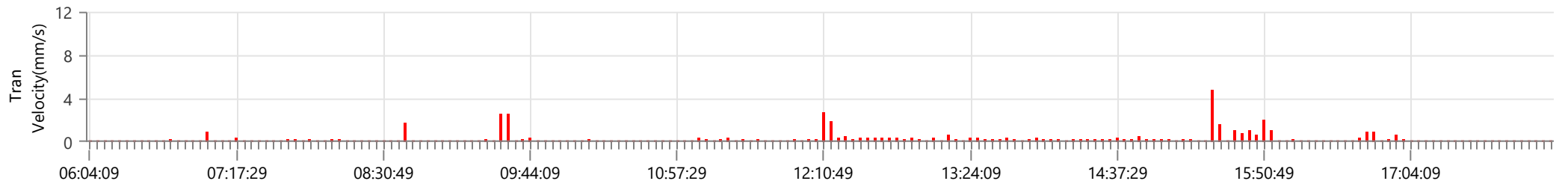
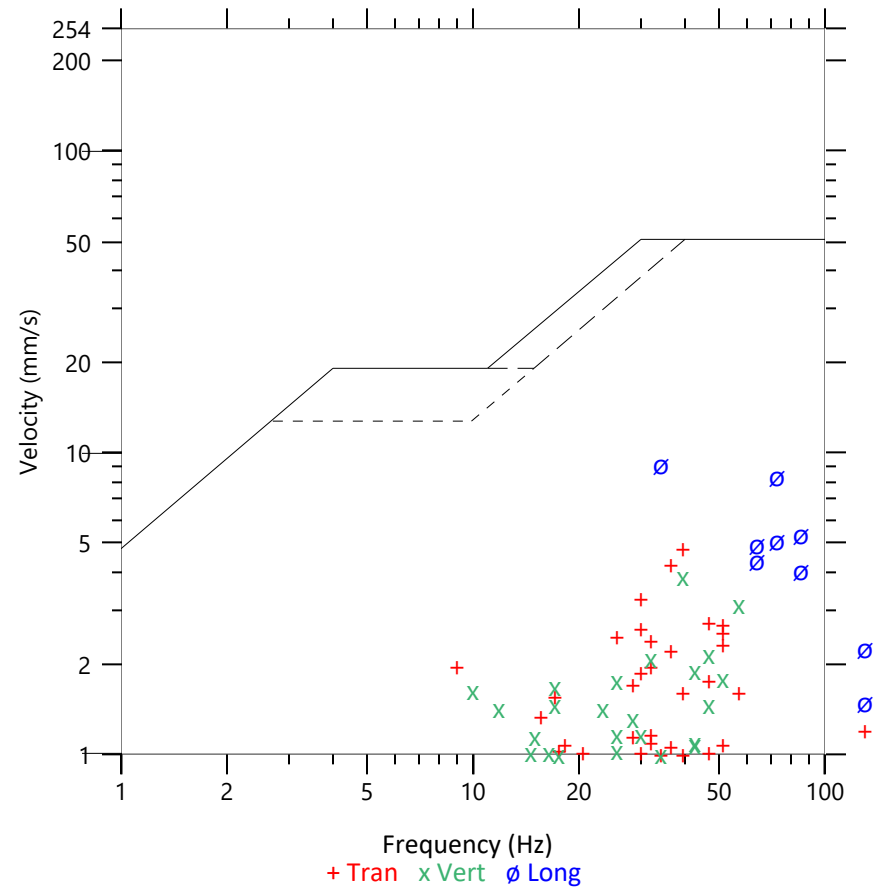
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.889 mm/s	3.937 mm/s	9.239 mm/s
Zero Crossing Frequency	39.4 Hz	39.4 Hz	34.1 Hz
Date	May 8, 2023	May 8, 2023	May 8, 2023
Time	15:28:39	15:28:39	15:28:39
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.7	3.9	4.7

Peak Vector Sum 9.513 mm/s at May 8, 2023 15:28:39

ISEE Linear Microphone
 Peak Sound Pressure Level 57.00 pa
 Date May 8, 2023
 Time 16:17:39
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 8, 2023 06:04:04
Finish May 8, 2023 18:16:15
Number of Intervals/Interval 8786.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 18, 2023 by Instantel
Event File Name BA19602_20230508060404.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
Loc: willow estates 46 garden way front of house facing S
Client: WSP
EM
General: RD7948

Extended Notes 51.44878 112.68254 51.44882 112.68244

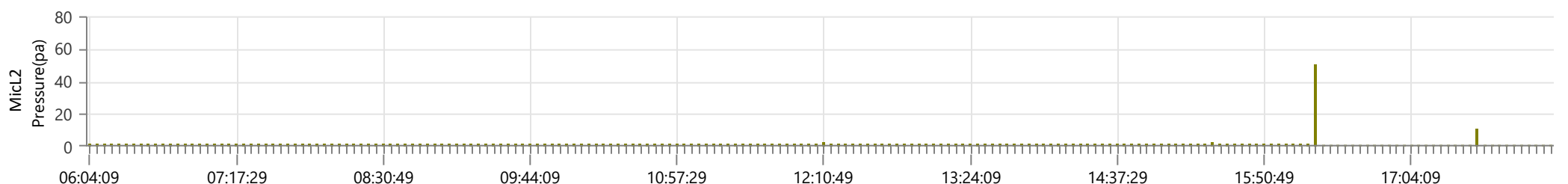
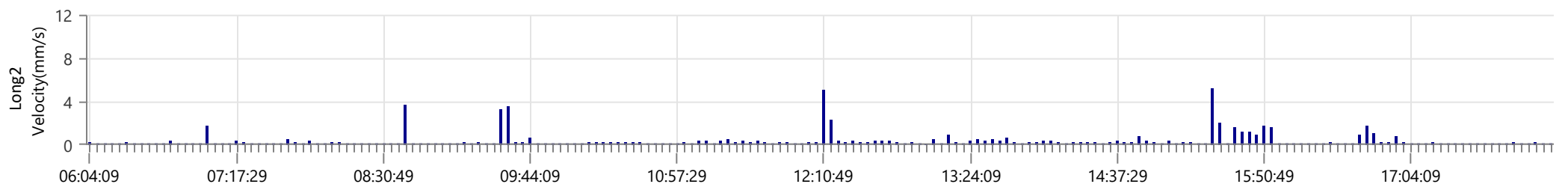
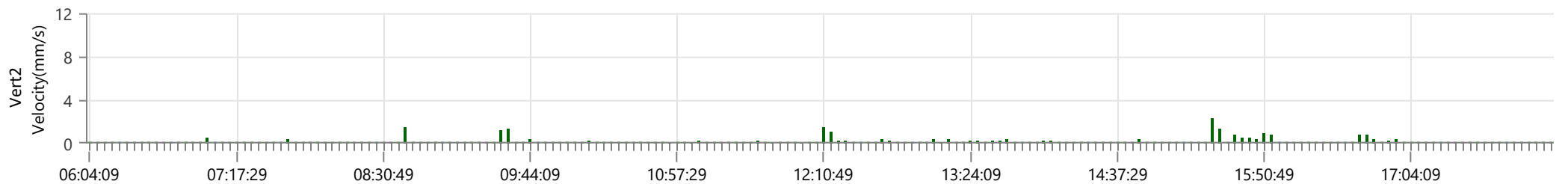
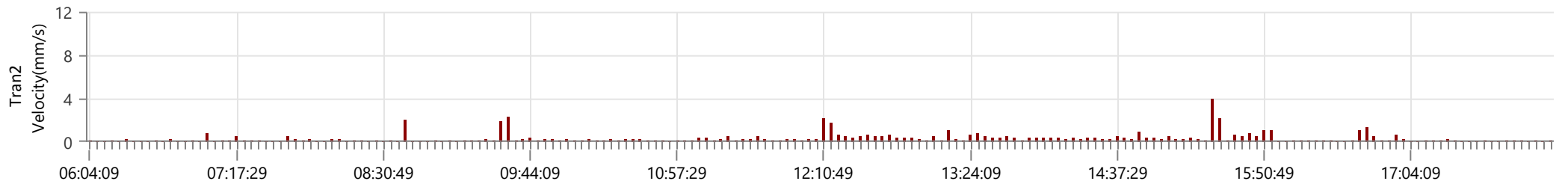
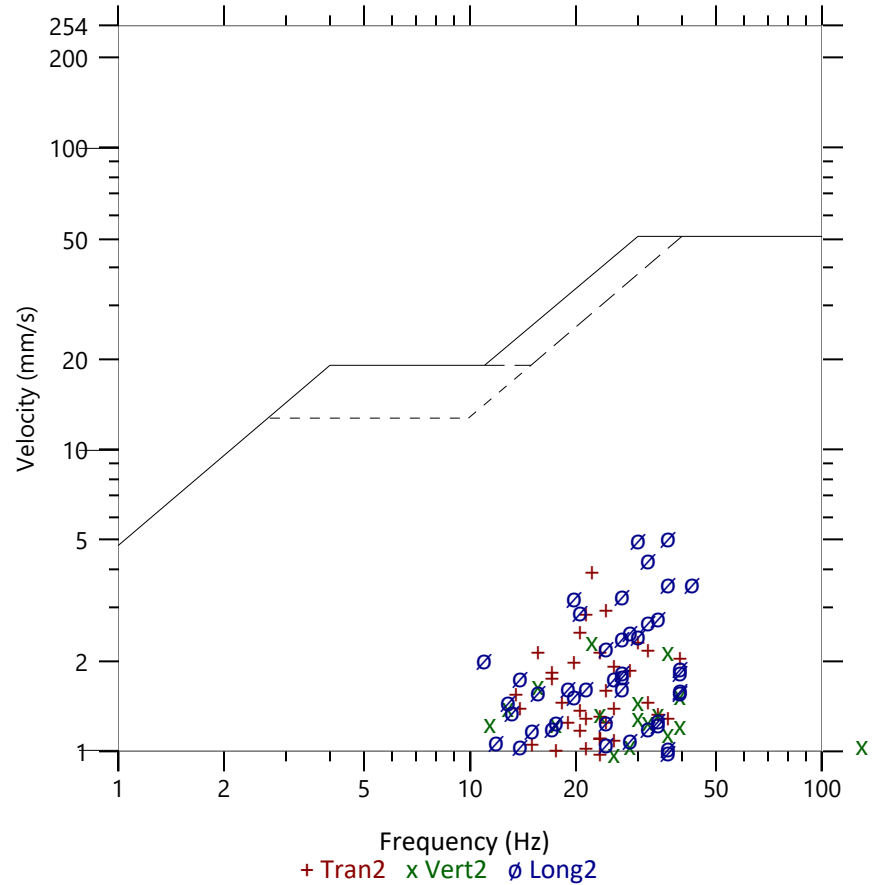
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.985 mm/s	2.334 mm/s	5.223 mm/s
Zero Crossing Frequency	22.3 Hz	22.3 Hz	36.6 Hz
Date	May 8, 2023	May 8, 2023	May 8, 2023
Time	15:28:39	15:28:39	15:28:34
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	4.1	3.7	3.8

Peak Vector Sum 6.038 mm/s at May 8, 2023 15:28:34

ISEE Linear Microphone
 Peak Sound Pressure Level 50.75 pa
 Date May 8, 2023
 Time 16:17:39
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 8, 2023 06:19:13
Finish May 8, 2023 18:12:09
Number of Intervals/Interval 8555.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230508061913.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
18 willow point KCB
User Name: EM
General: rear of house facing river

Extended Notes 51.44979 112.68080 51.44982 112.68081

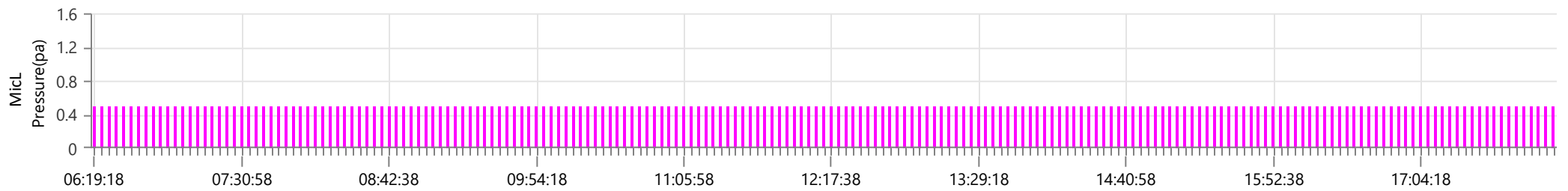
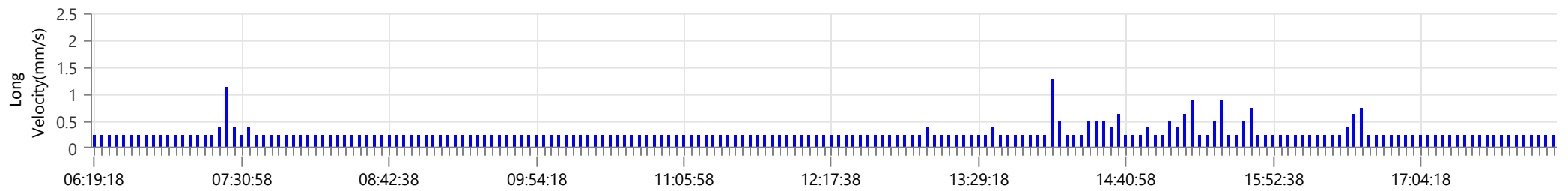
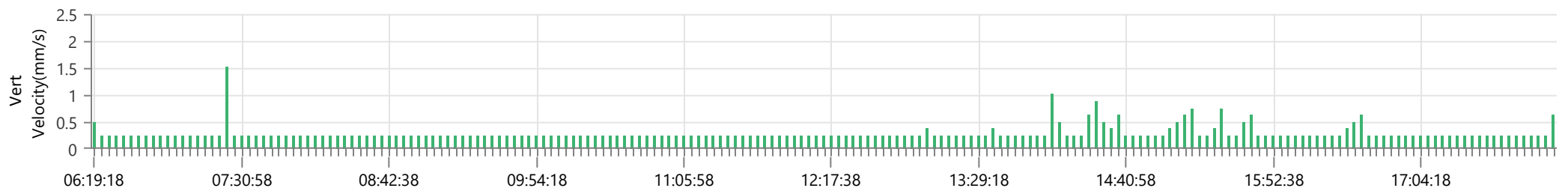
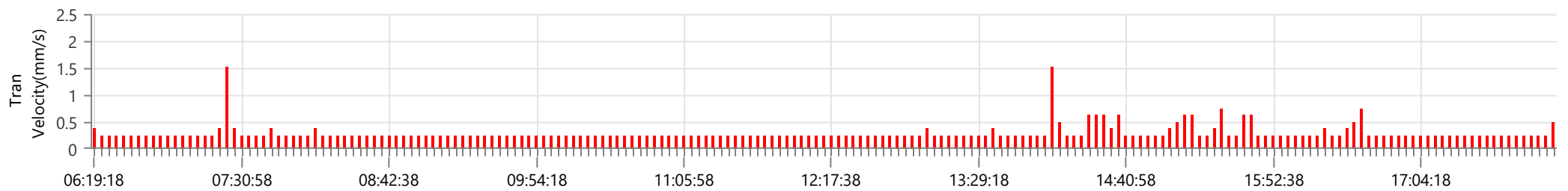
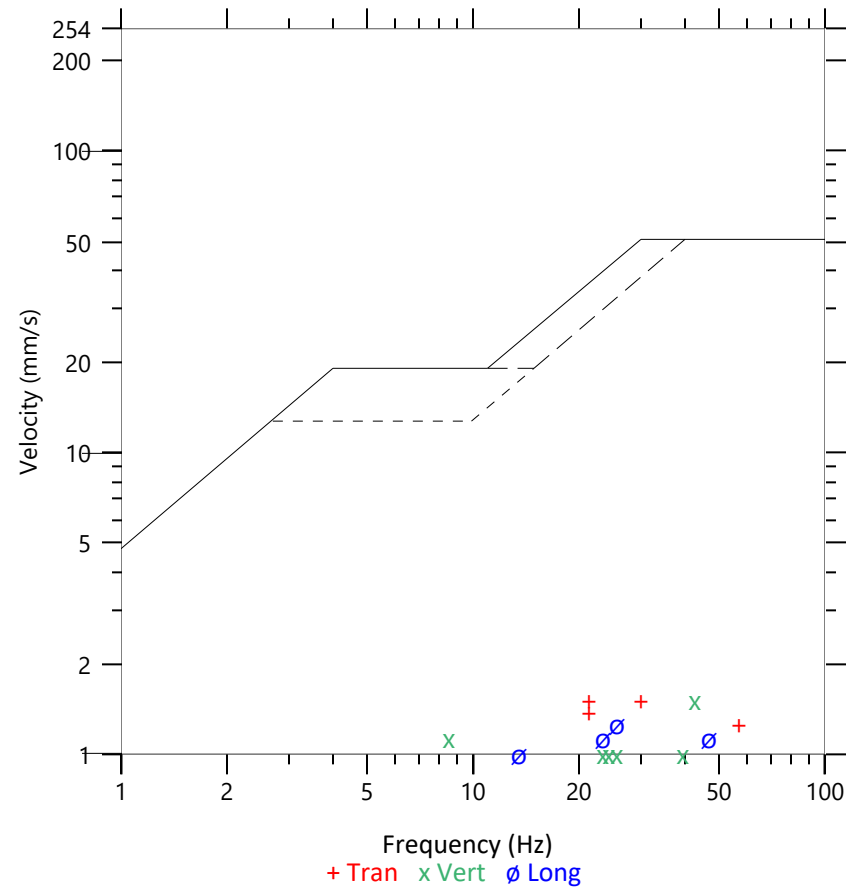
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.524 mm/s	1.524 mm/s	1.270 mm/s
Zero Crossing Frequency	21.3 Hz	42.7 Hz	25.6 Hz
Date	May 8, 2023	May 8, 2023	May 8, 2023
Time	07:25:28	07:25:38	14:06:08
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.5 Hz	7.9 Hz
Overswing Ratio	3.4	3.6	3.5

Peak Vector Sum 1.814 mm/s at May 8, 2023 14:06:08

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 8, 2023
 Time 06:19:43
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 8, 2023 06:19:13
Finish May 8, 2023 18:12:09
Number of Intervals/Interval 8555.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230508061913.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
18 willow point KCB
User Name: EM
General: rear of house facing river

Extended Notes 51.44979 112.68080 51.44982 112.68081

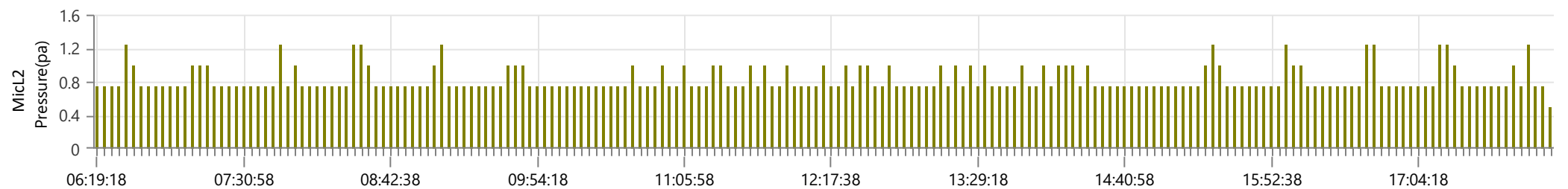
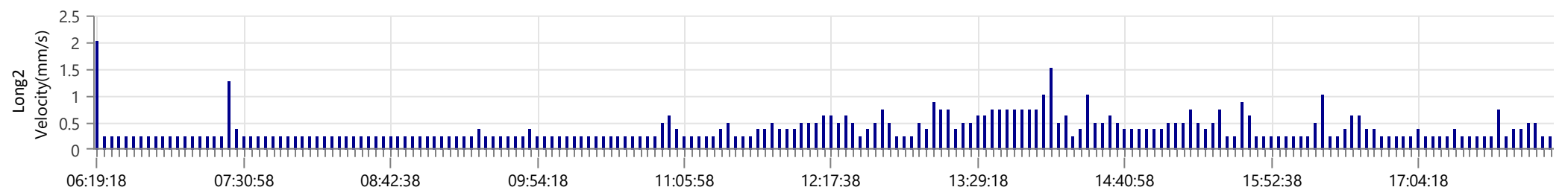
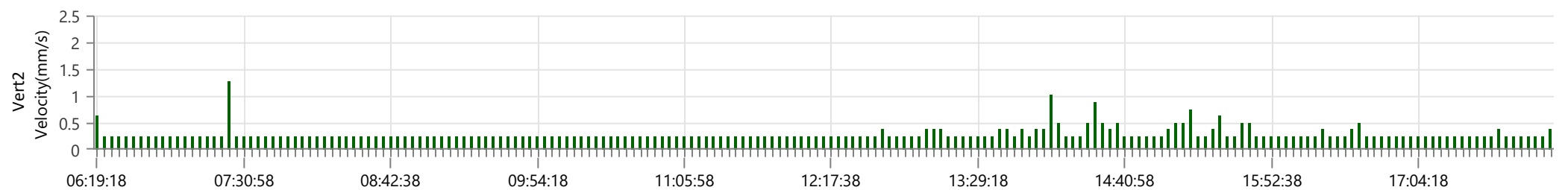
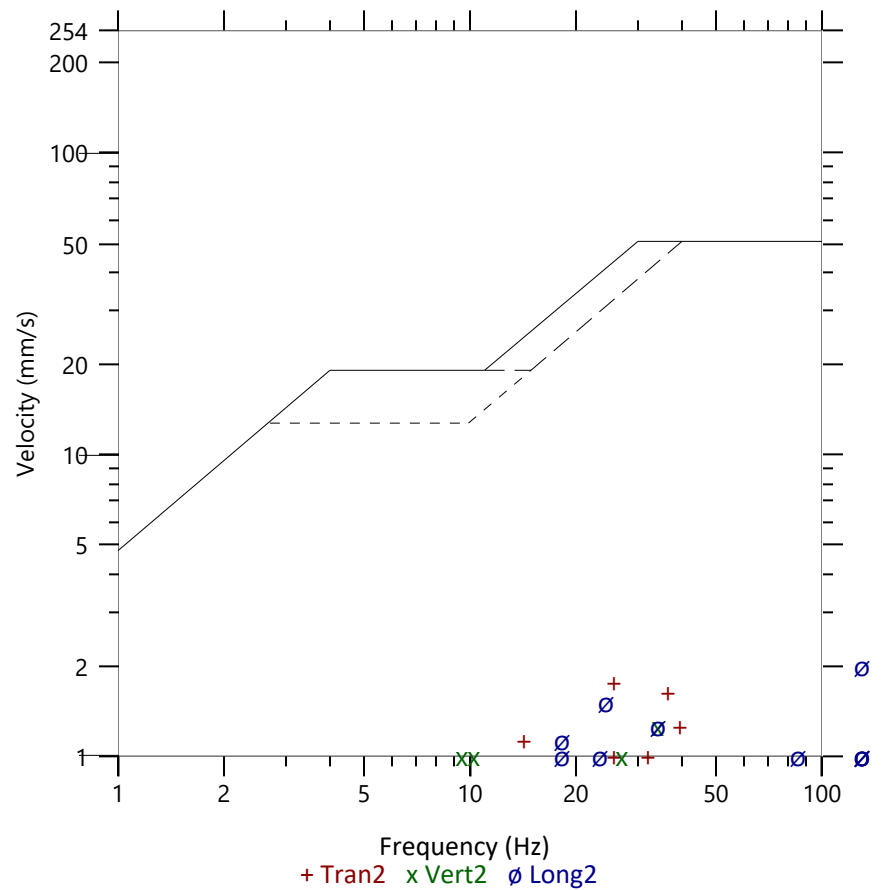
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.778 mm/s	1.270 mm/s	2.032 mm/s
Zero Crossing Frequency	25.6 Hz	34.1 Hz	>100 Hz
Date	May 8, 2023	May 8, 2023	May 8, 2023
Time	14:06:08	07:25:38	06:21:13
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	8.3 Hz	8.6 Hz
Overswing Ratio	3.4	3.3	3.6

Peak Vector Sum 2.110 mm/s at May 8, 2023 06:21:13

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 8, 2023
 Time 06:36:18
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 9, 2023 06:22:32
Finish May 9, 2023 18:09:15
Number of Intervals/Interval 8480.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230509062232.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44882 112.68245 51.44883 112.68244

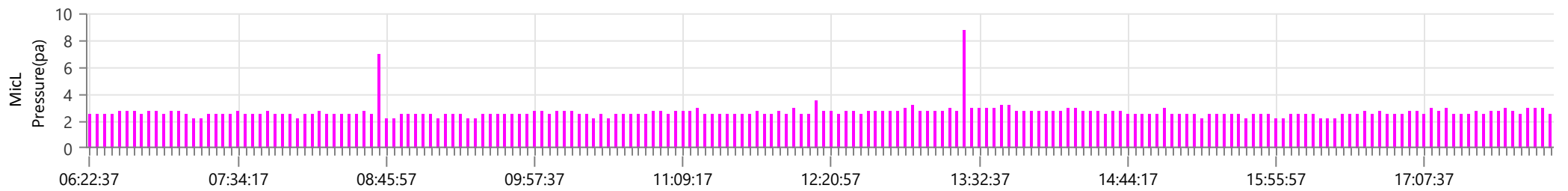
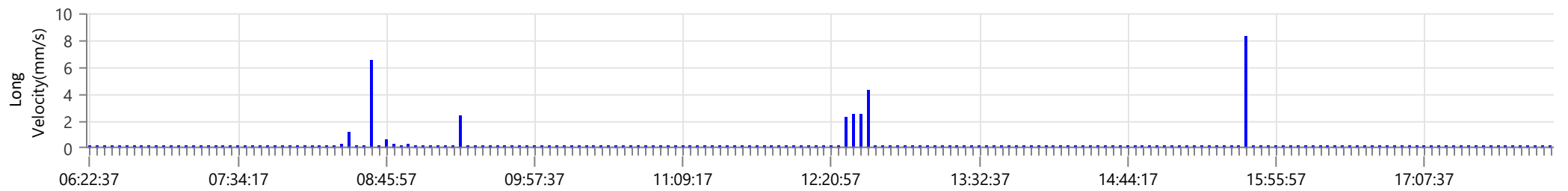
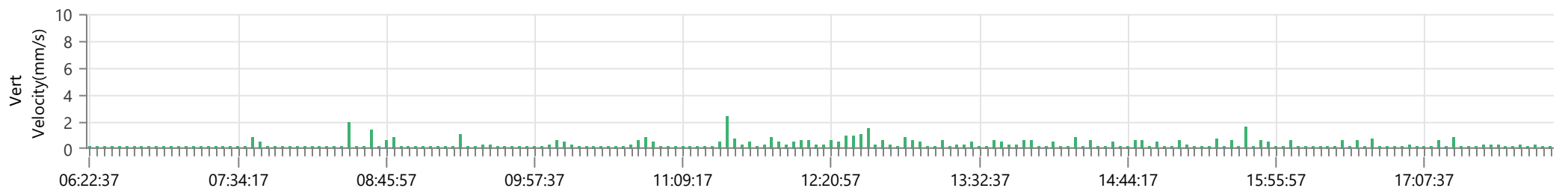
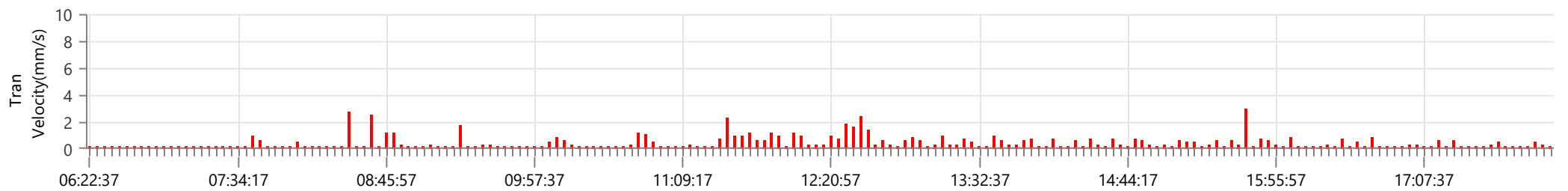
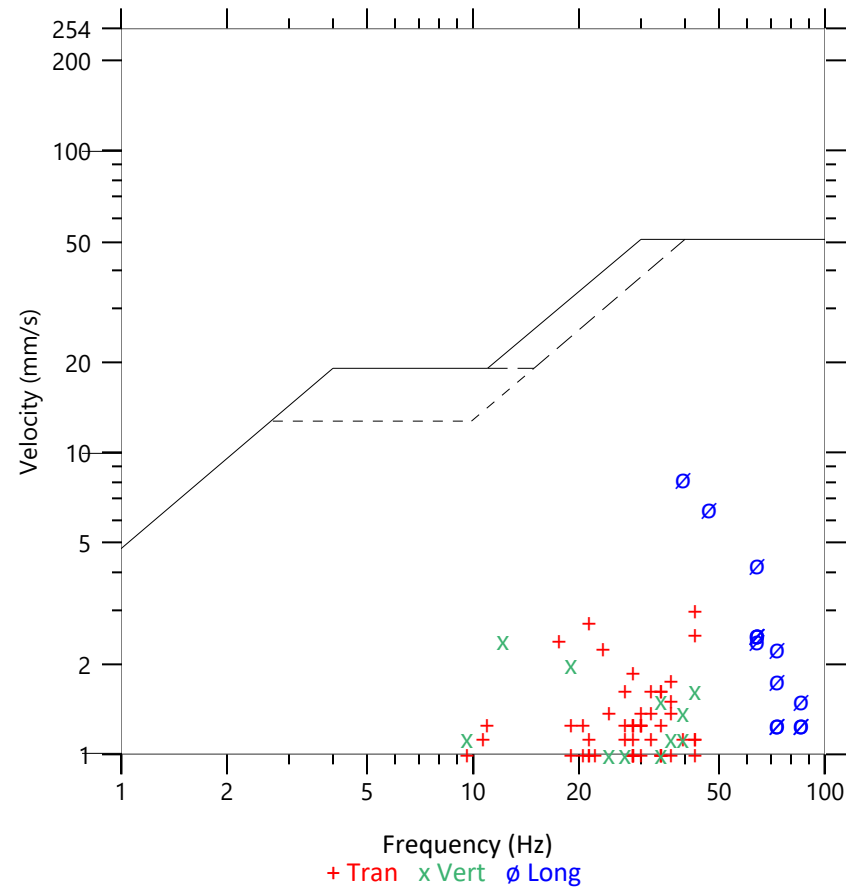
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.048 mm/s	2.413 mm/s	8.382 mm/s
Zero Crossing Frequency	42.7 Hz	12.2 Hz	39.4 Hz
Date	May 9, 2023	May 9, 2023	May 9, 2023
Time	15:43:02	11:33:57	15:43:02
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.7 Hz	8.8 Hz
Overswing Ratio	3.2	3.5	2.8

Peak Vector Sum 8.967 mm/s at May 9, 2023 15:43:02

ISEE Linear Microphone	
Peak Sound Pressure Level	8.75 pa
Date	May 9, 2023
Time	13:28:52
Zero Crossing Frequency	>100 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 9, 2023 06:22:32
Finish May 9, 2023 18:09:15
Number of Intervals/Interval 8480.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230509062232.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44882 112.68245 51.44883 112.68244

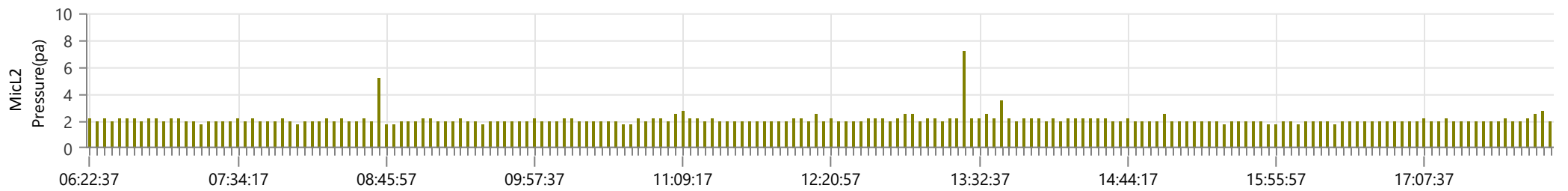
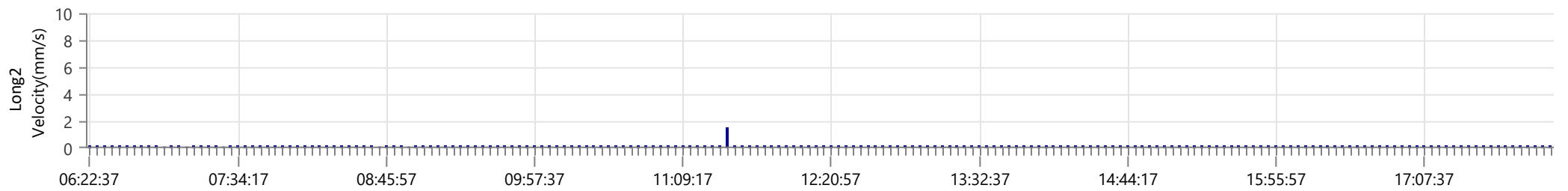
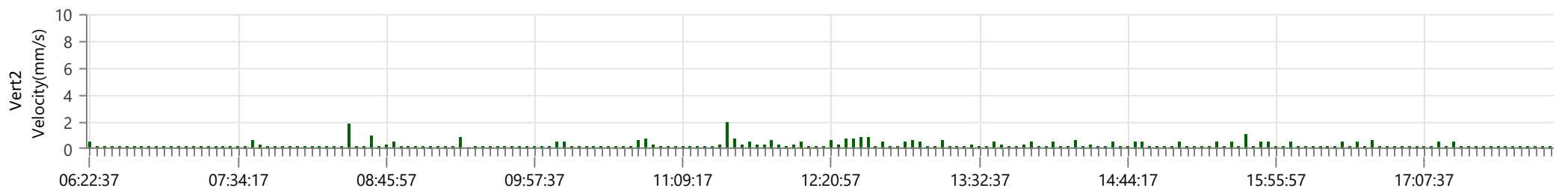
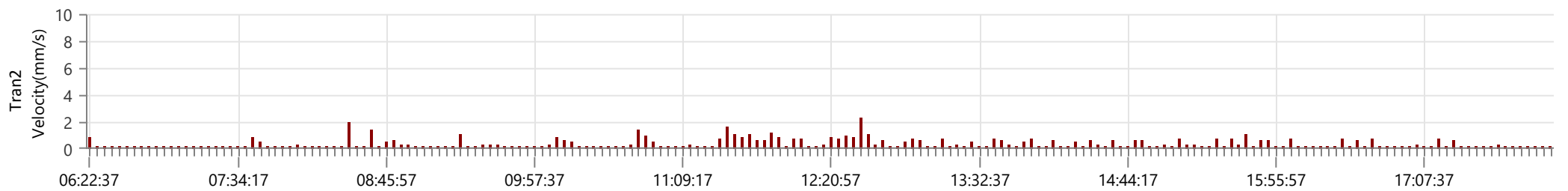
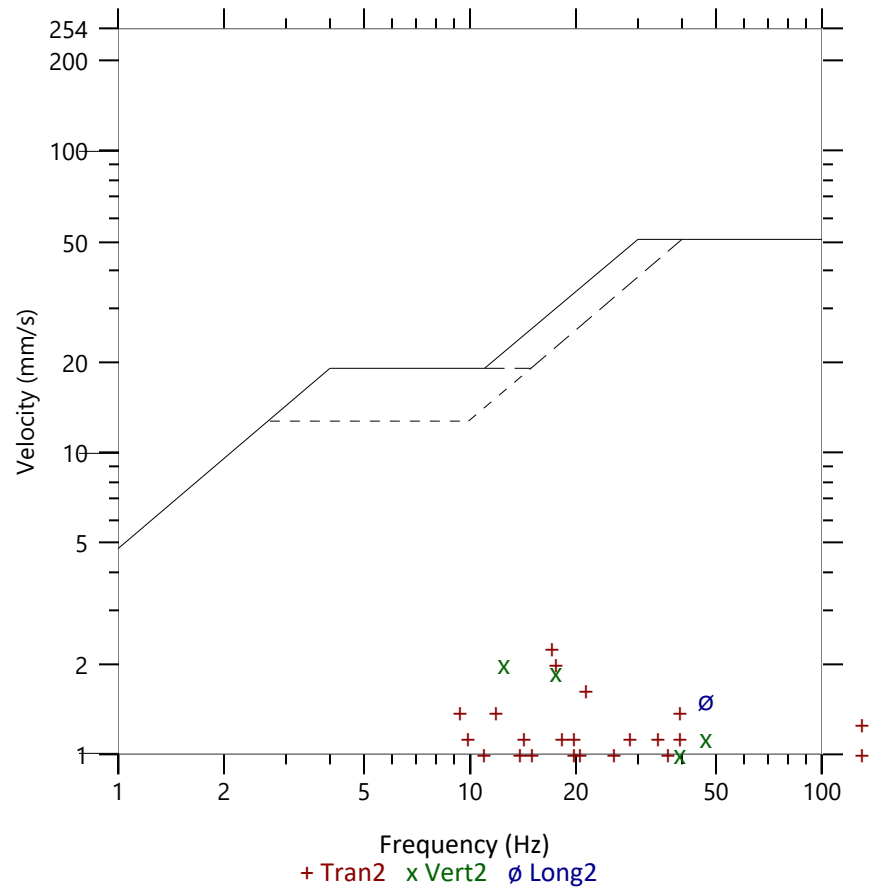
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.286 mm/s	2.032 mm/s	1.524 mm/s
Zero Crossing Frequency	17.1 Hz	12.5 Hz	46.5 Hz
Date	May 9, 2023	May 9, 2023	May 9, 2023
Time	12:36:12	11:33:57	11:33:57
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.9 Hz	8.5 Hz	8.9 Hz
Overswing Ratio	3.2	3.2	4.8

Peak Vector Sum 2.543 mm/s at May 9, 2023 11:33:57

ISEE Linear Microphone
 Peak Sound Pressure Level 7.25 pa
 Date May 9, 2023
 Time 13:28:52
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 9, 2023 11:51:40
Finish May 9, 2023 18:05:09
Number of Intervals/Interval 4481.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230509115140.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

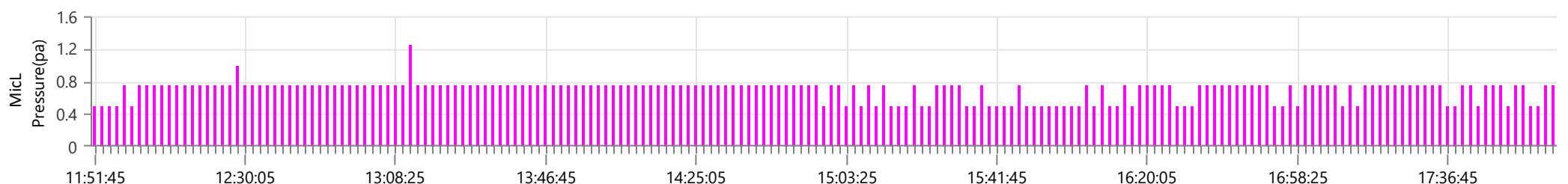
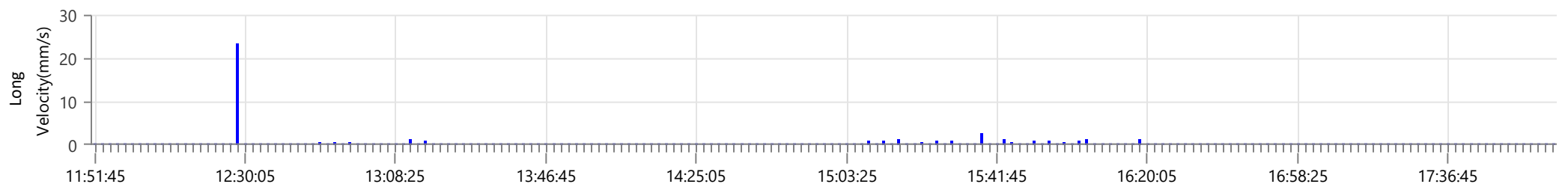
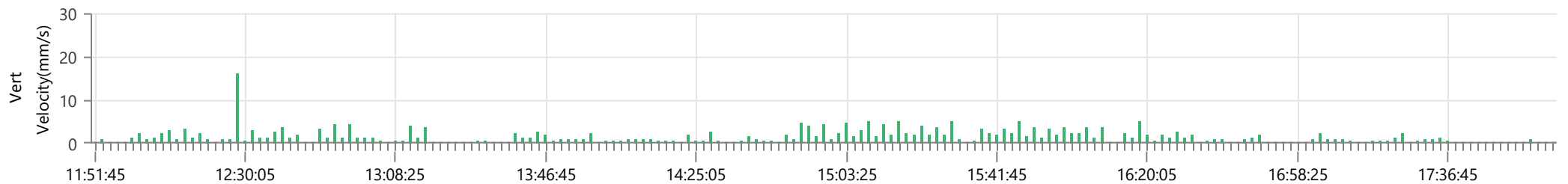
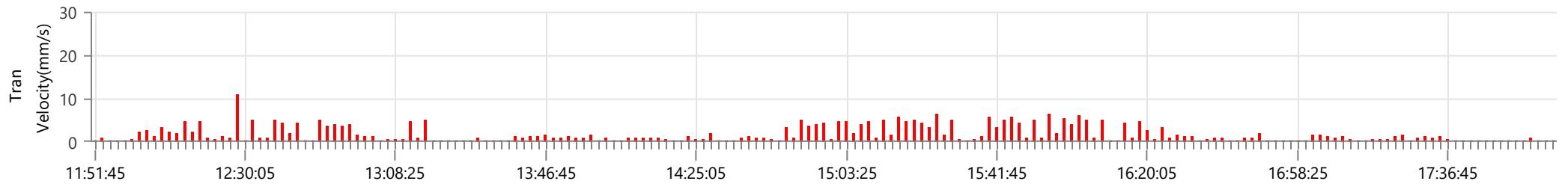
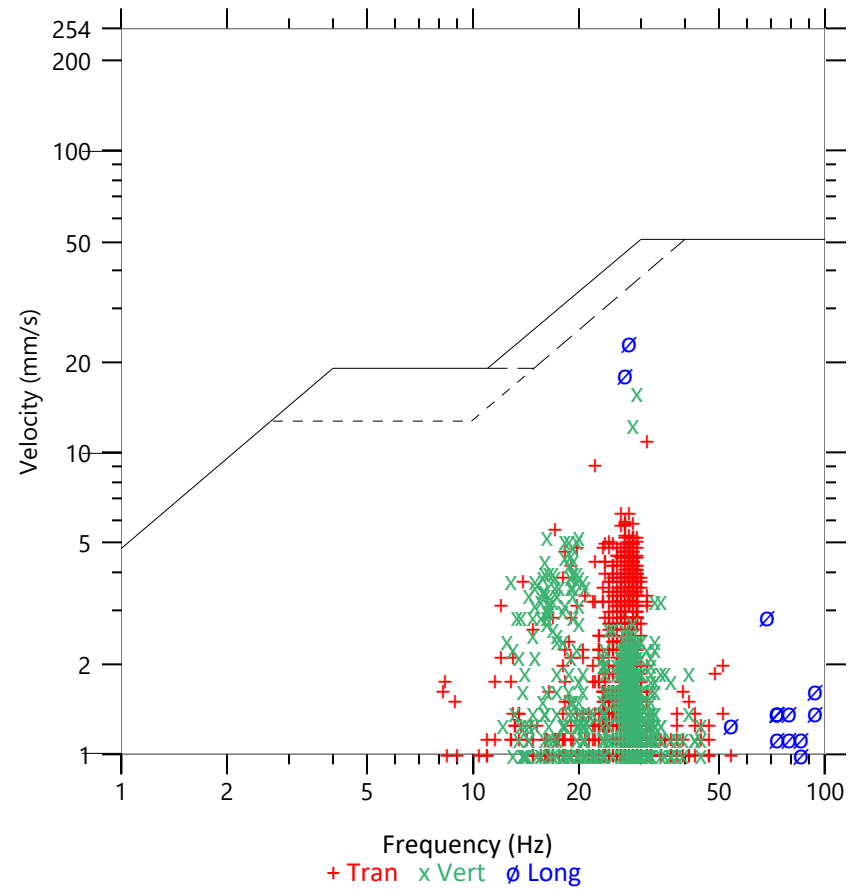
Extended Notes No text to be displayed.
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	11.176 mm/s	16.129 mm/s	23.495 mm/s
Zero Crossing Frequency	31.0 Hz	29.3 Hz	27.7 Hz
Date	May 9, 2023	May 9, 2023	May 9, 2023
Time	12:28:45	12:28:45	12:28:45
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	12.3 Hz	7.7 Hz	8.3 Hz
Overswing Ratio	6.1	3.5	4.0

Peak Vector Sum 25.260 mm/s at May 9, 2023 12:28:45

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 9, 2023
 Time 13:12:55
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 9, 2023 11:51:40
Finish May 9, 2023 18:05:09
Number of Intervals/Interval 4481.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230509115140.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

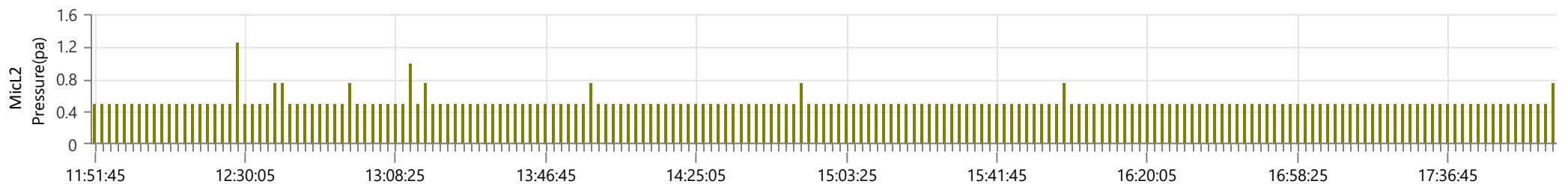
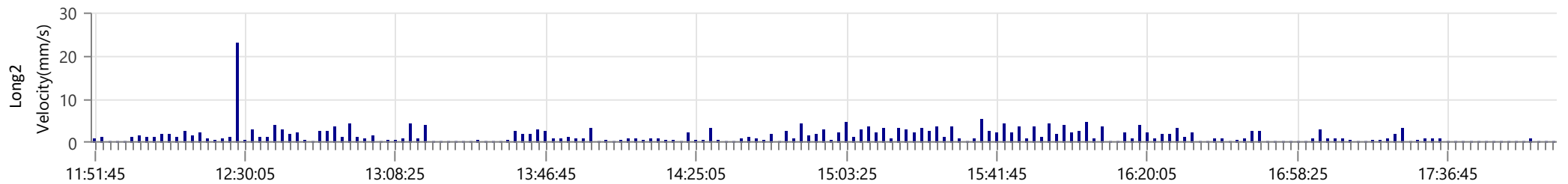
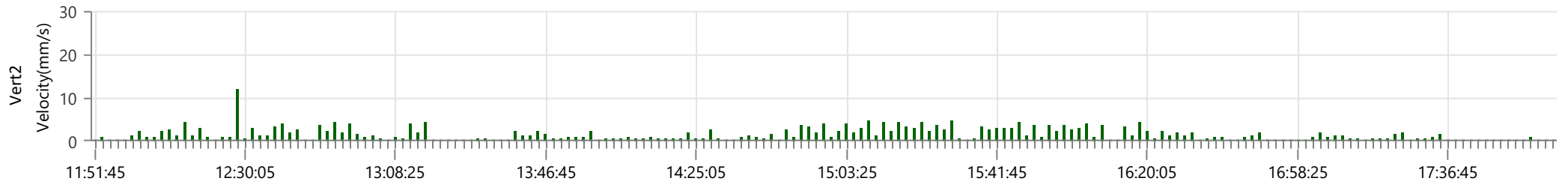
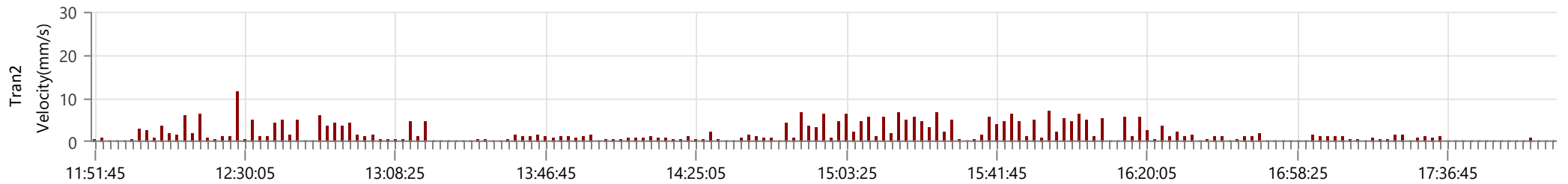
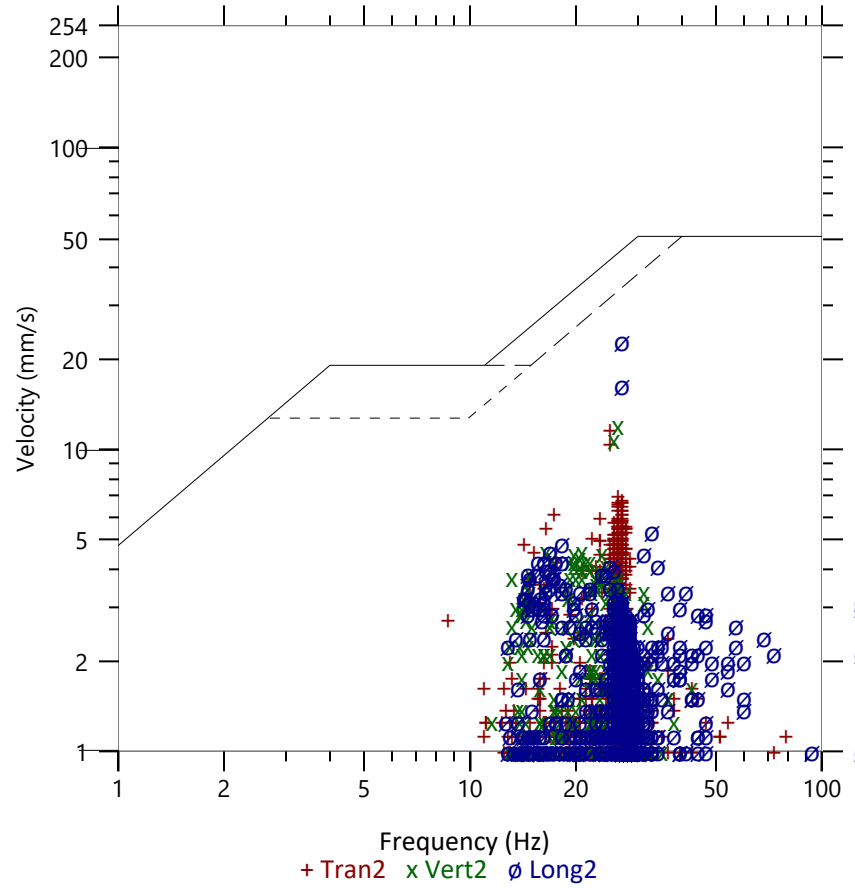
Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes No text to be displayed.
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	11.811 mm/s	12.192 mm/s	23.114 mm/s
Zero Crossing Frequency	25.0 Hz	26.3 Hz	26.9 Hz
Date	May 9, 2023	May 9, 2023	May 9, 2023
Time	12:28:40	12:28:45	12:28:45
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.7	4.2	4.0
Peak Vector Sum	23.780 mm/s at May 9, 2023 12:28:45		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 9, 2023
 Time 12:28:40
 Zero Crossing Frequency 35.3 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 10, 2023 06:31:08
Finish May 10, 2023 18:32:51
Number of Intervals/Interval 8660.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230510063108.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

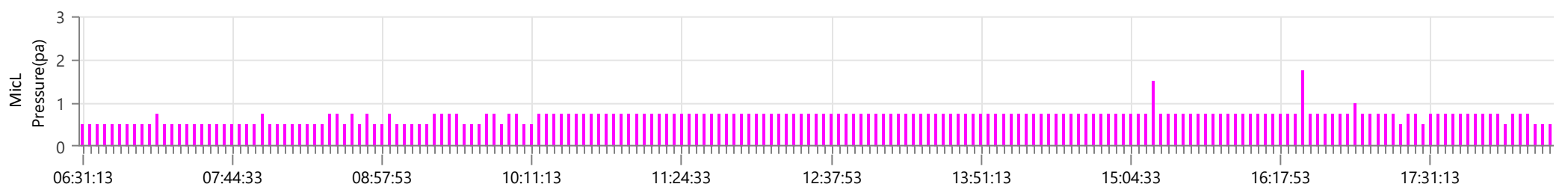
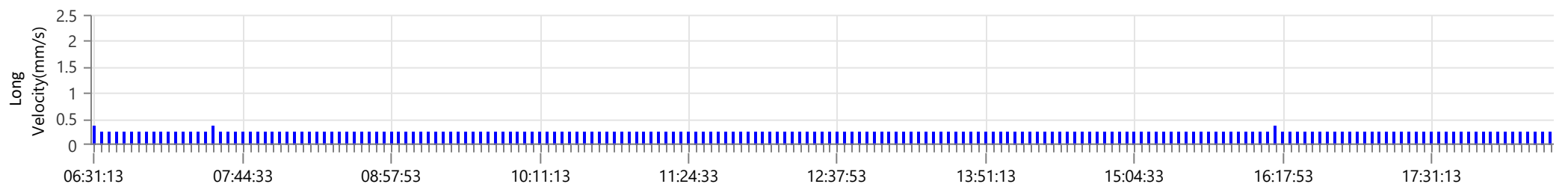
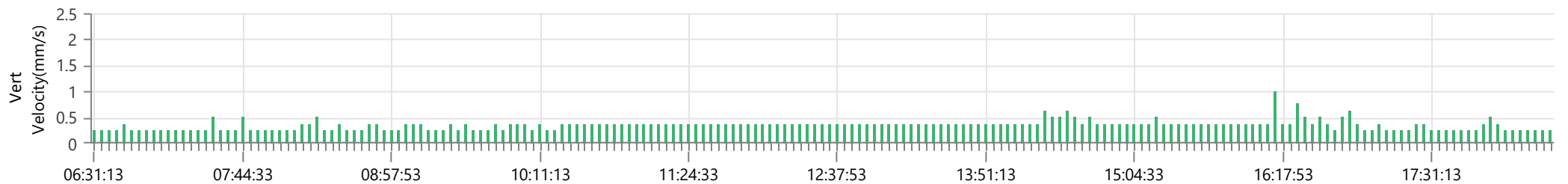
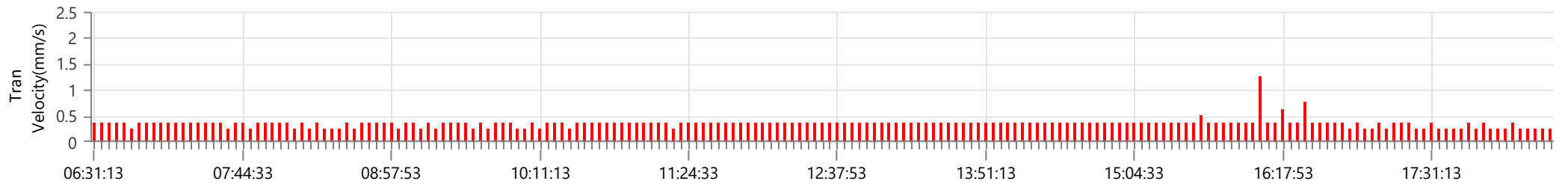
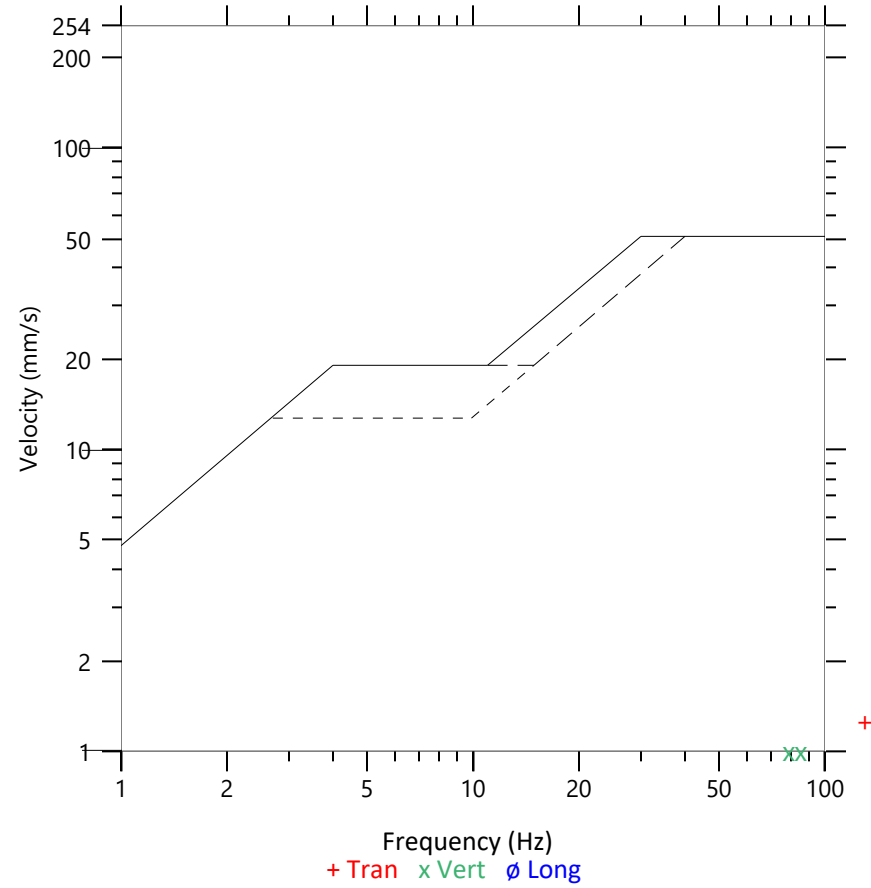
Extended Notes No text to be displayed.
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.016 mm/s	0.381 mm/s
Zero Crossing Frequency	>100 Hz	85.3 Hz	>100 Hz
Date	May 10, 2023	May 10, 2023	May 10, 2023
Time	16:10:03	16:16:18	06:31:38
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	13.3 Hz	7.8 Hz	8.5 Hz
Overswing Ratio	6.1	3.4	3.8

Peak Vector Sum 1.276 mm/s at May 10, 2023 16:10:03

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 10, 2023
 Time 16:30:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 10, 2023 06:31:08
Finish May 10, 2023 18:32:51
Number of Intervals/Interval 8660.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230510063108.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes No text to be displayed.

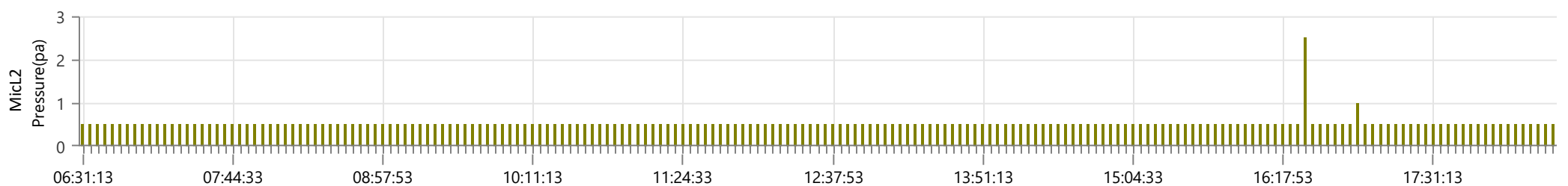
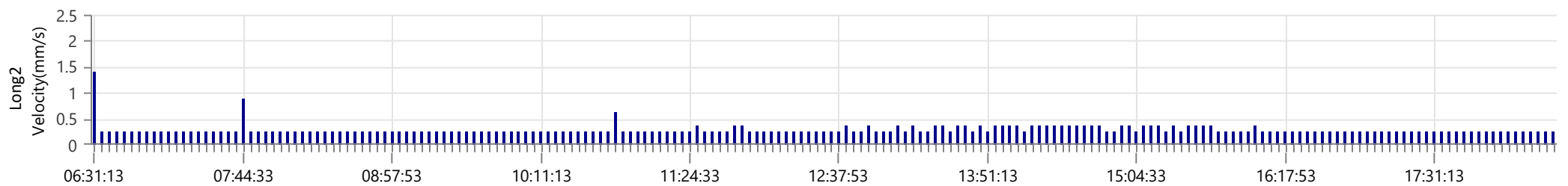
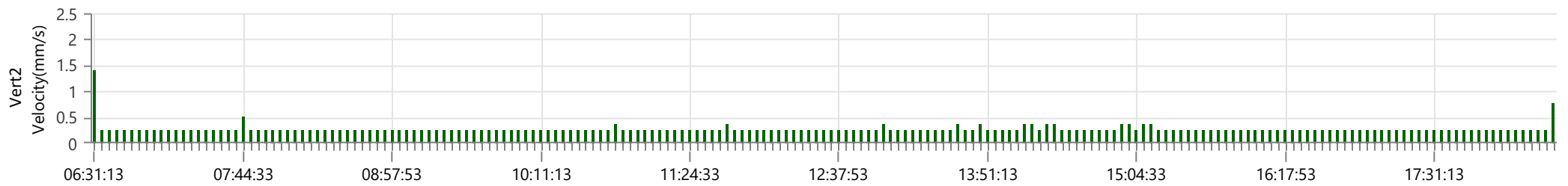
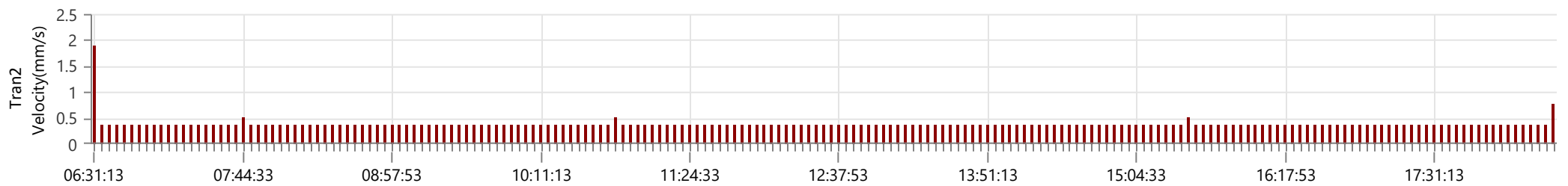
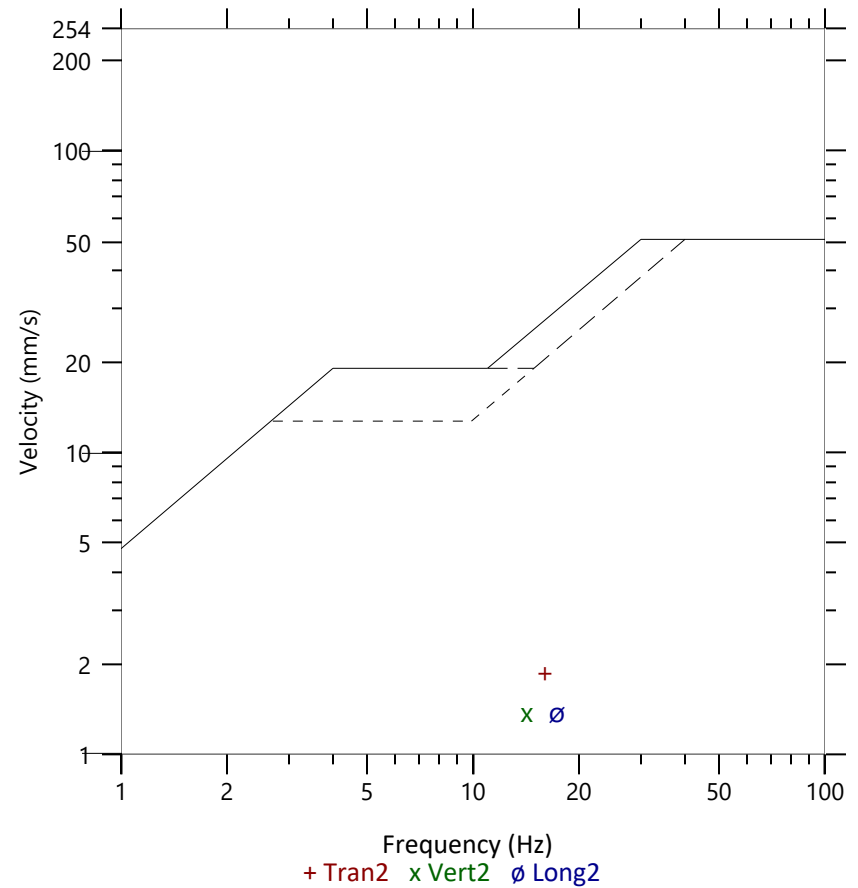
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	1.397 mm/s	1.397 mm/s
Zero Crossing Frequency	16.0 Hz	14.2 Hz	17.4 Hz
Date	May 10, 2023	May 10, 2023	May 10, 2023
Time	06:31:43	06:31:43	06:31:43
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.6 Hz
Overswing Ratio	3.8	4.3	4.0

Peak Vector Sum 2.682 mm/s at May 10, 2023 06:31:43

ISEE Linear Microphone
 Peak Sound Pressure Level 2.50 pa
 Date May 10, 2023
 Time 16:30:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 11, 2023 06:22:59
Finish May 11, 2023 18:30:54
Number of Intervals/Interval 8734.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230511062259.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
willow estate 14 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.45010 112.68102 51.45010 112.68105

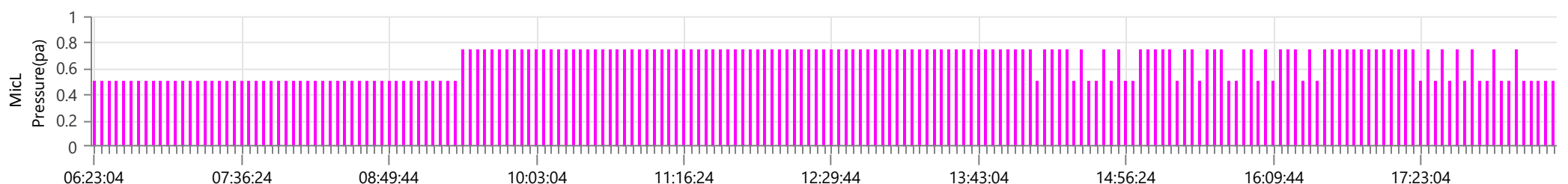
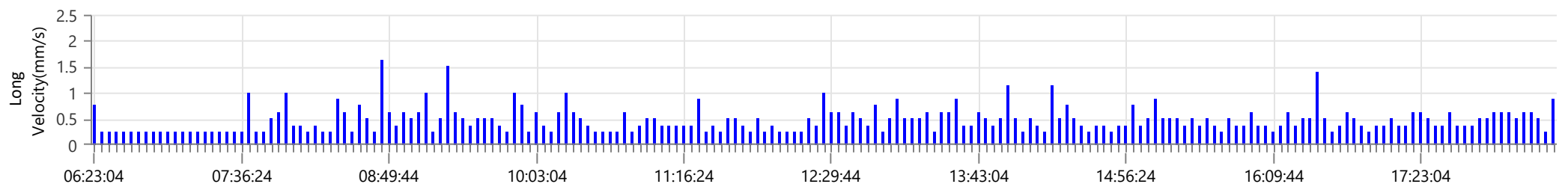
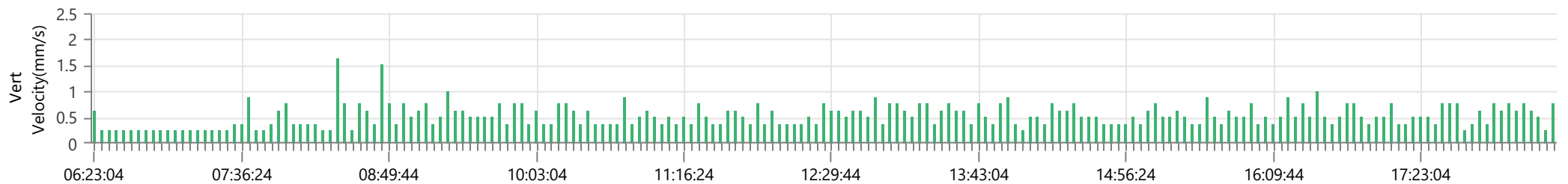
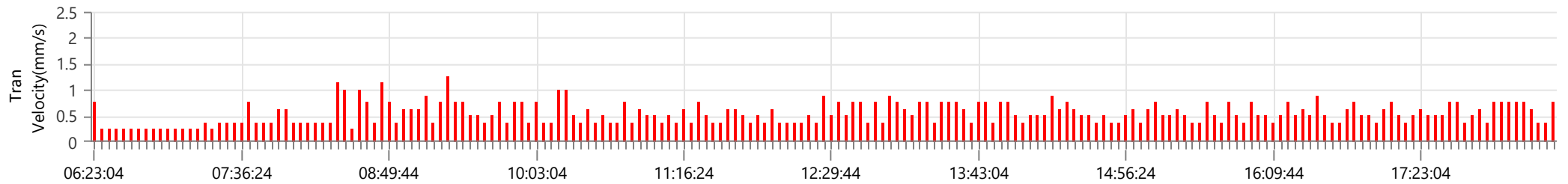
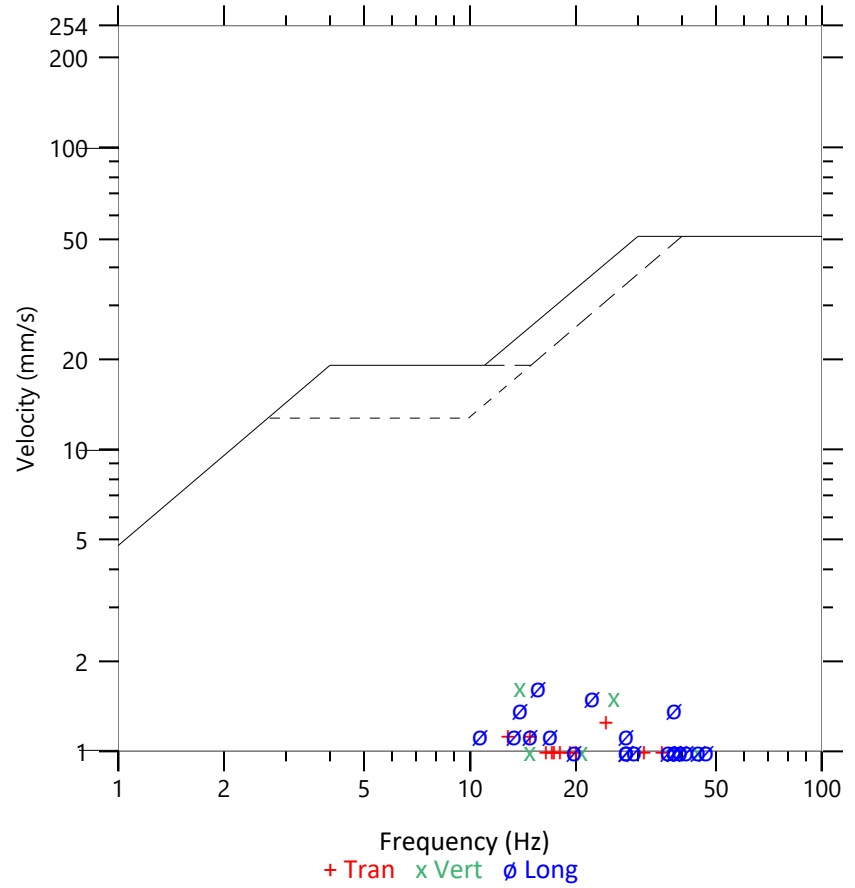
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.651 mm/s	1.651 mm/s
Zero Crossing Frequency	24.4 Hz	13.8 Hz	15.5 Hz
Date	May 11, 2023	May 11, 2023	May 11, 2023
Time	09:21:54	08:27:19	08:47:49
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	10.3 Hz	7.8 Hz	8.1 Hz
Overswing Ratio	4.8	3.5	3.5

Peak Vector Sum 1.773 mm/s at May 11, 2023 08:27:19

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date May 11, 2023
Time 09:26:54
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 11, 2023 06:22:59
Finish May 11, 2023 18:30:54
Number of Intervals/Interval 8734.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230511062259.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
willow estate 14 willow point
WSP
User Name: EM
rear of house facing berm

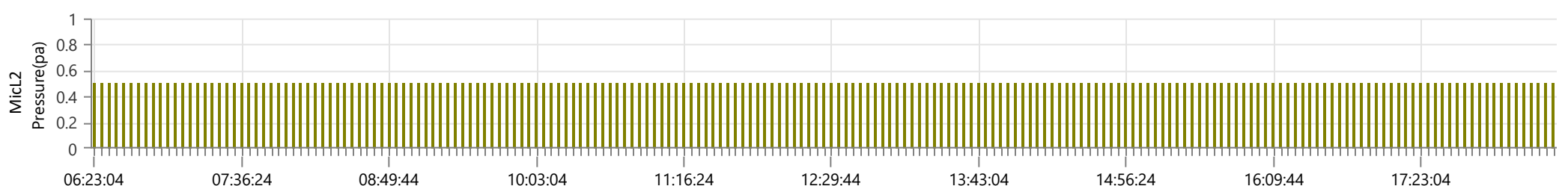
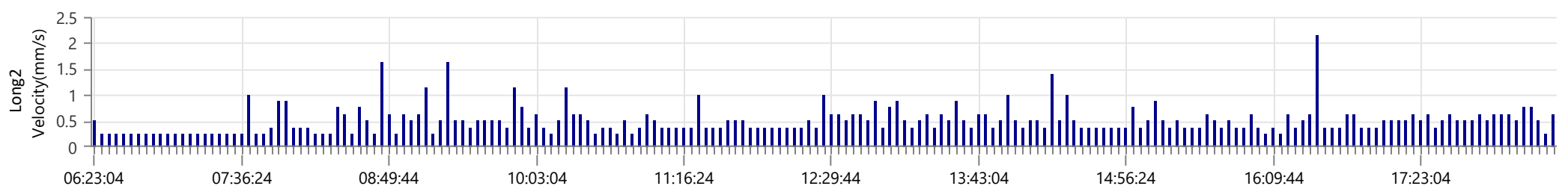
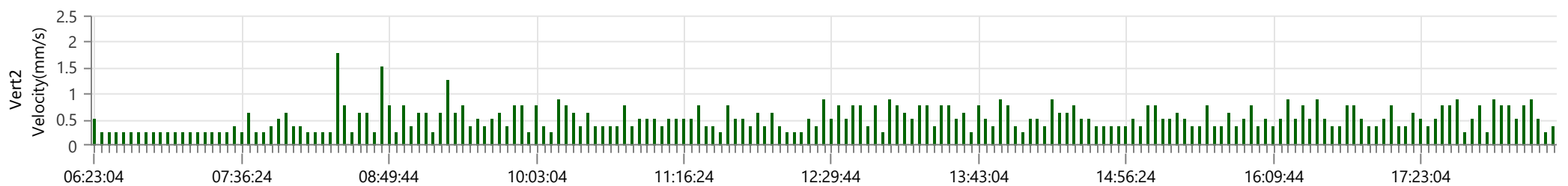
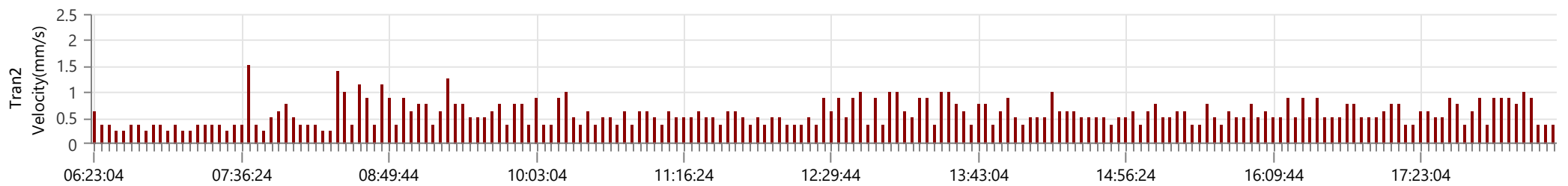
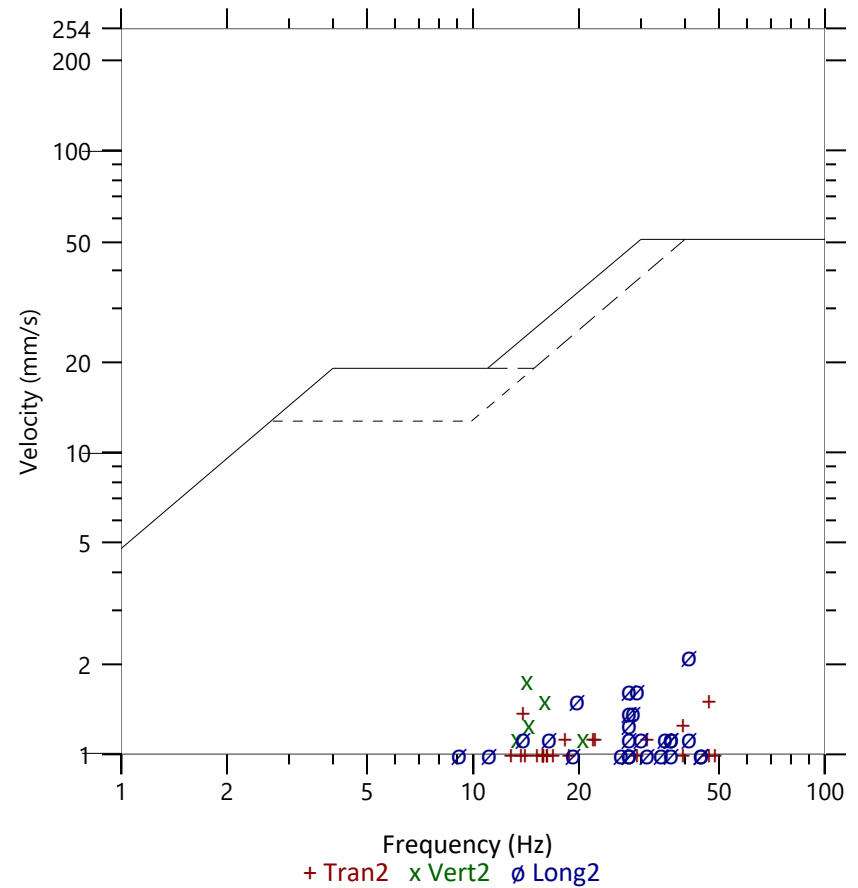
Extended Notes 51.45010 112.68102 51.45010 112.68105
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.778 mm/s	2.159 mm/s
Zero Crossing Frequency	46.5 Hz	14.2 Hz	41.0 Hz
Date	May 11, 2023	May 11, 2023	May 11, 2023
Time	07:41:59	08:27:19	16:34:49
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.2	4.1

Peak Vector Sum 2.307 mm/s at May 11, 2023 16:34:49

ISEE Linear Microphone
Peak Sound Pressure Level 0.50 pa
Date May 11, 2023
Time 06:23:04
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 10, 2023 06:18:50
Finish May 10, 2023 18:20:30
Number of Intervals/Interval 8660.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230510061850.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

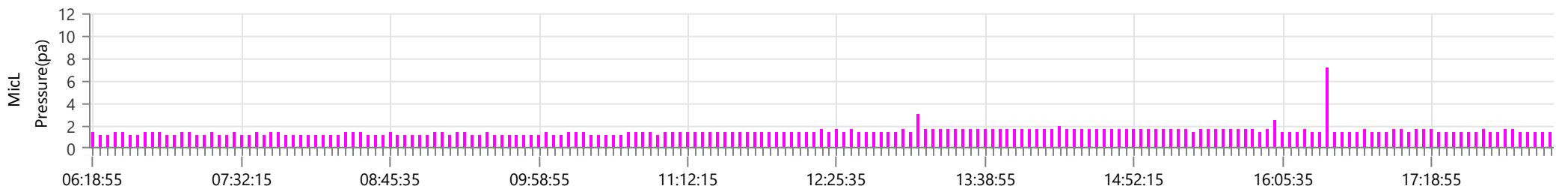
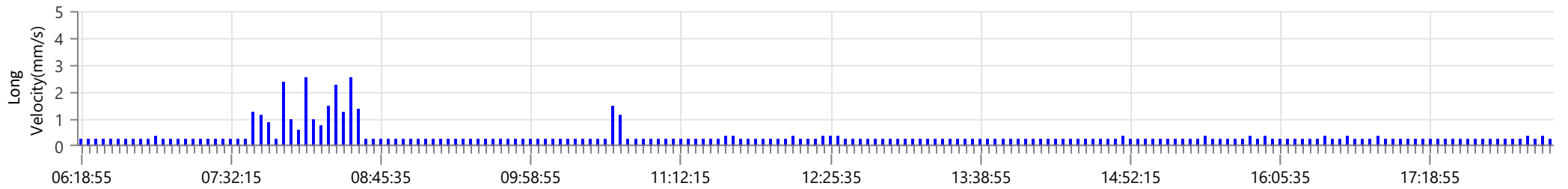
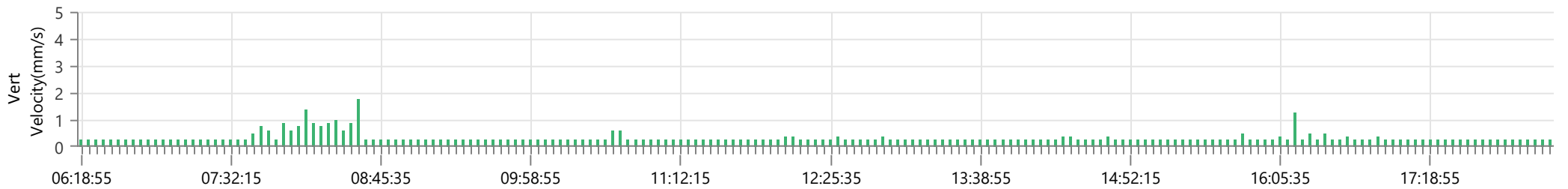
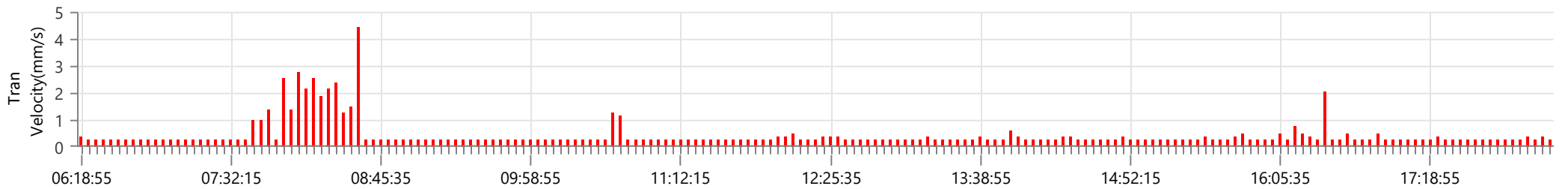
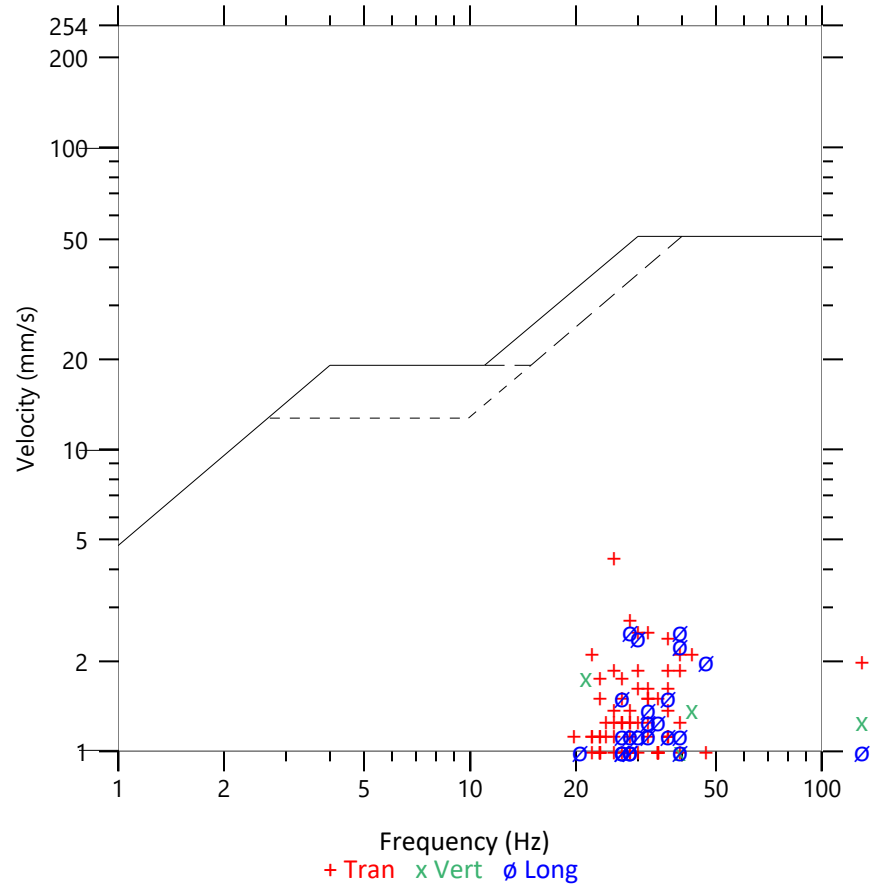
Extended Notes 51.44886 112.68228 51.44884 112.68243

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.445 mm/s	1.778 mm/s	2.540 mm/s
Zero Crossing Frequency	25.6 Hz	21.3 Hz	39.4 Hz
Date	May 10, 2023	May 10, 2023	May 10, 2023
Time	08:37:20	08:37:20	08:10:35
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	8.5 Hz	8.1 Hz
Overswing Ratio	3.4	3.2	2.8
Peak Vector Sum	4.560 mm/s at May 10, 2023 08:37:20		

ISEE Linear Microphone
 Peak Sound Pressure Level 7.25 pa
 Date May 10, 2023
 Time 16:28:50
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 10, 2023 06:18:50
Finish May 10, 2023 18:20:30
Number of Intervals/Interval 8660.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230510061850.IDFH
Scaled Distance 9.5 (3.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44886 112.68228 51.44884 112.68243

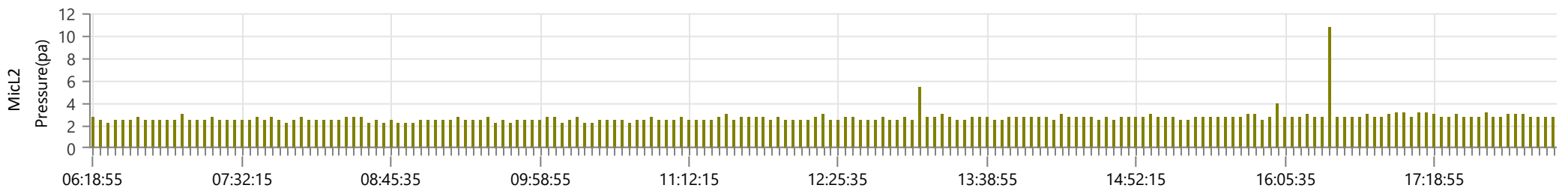
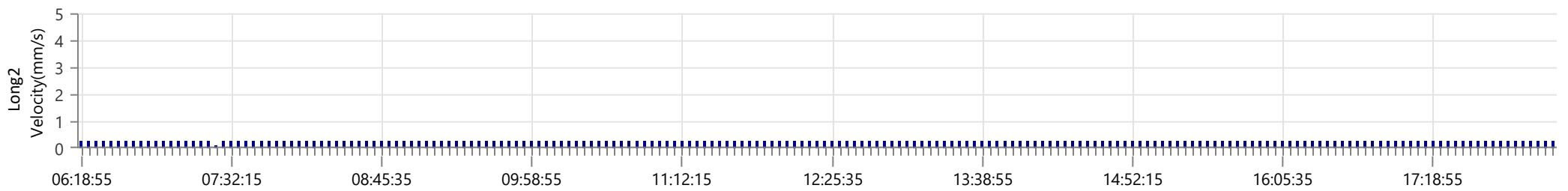
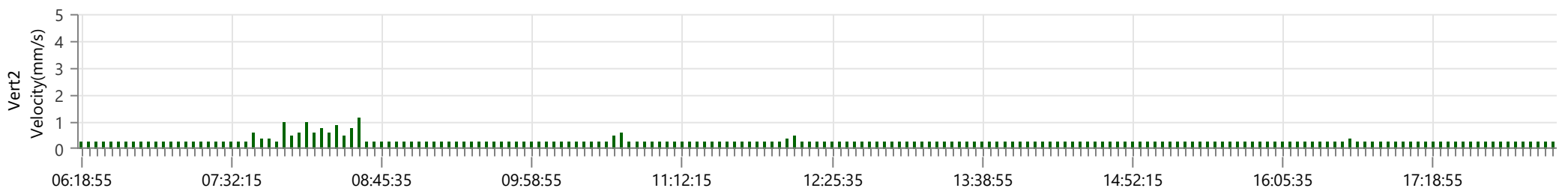
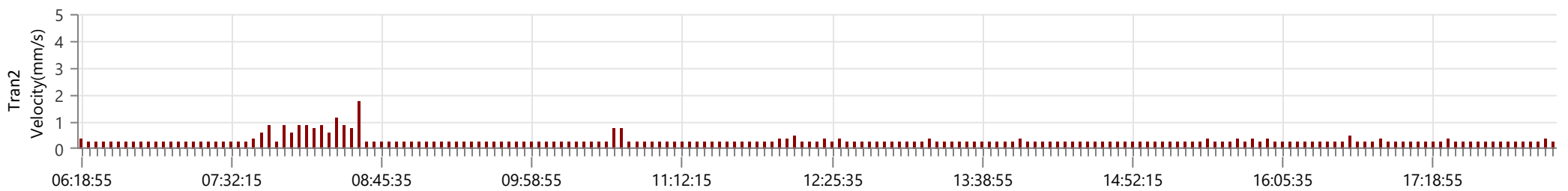
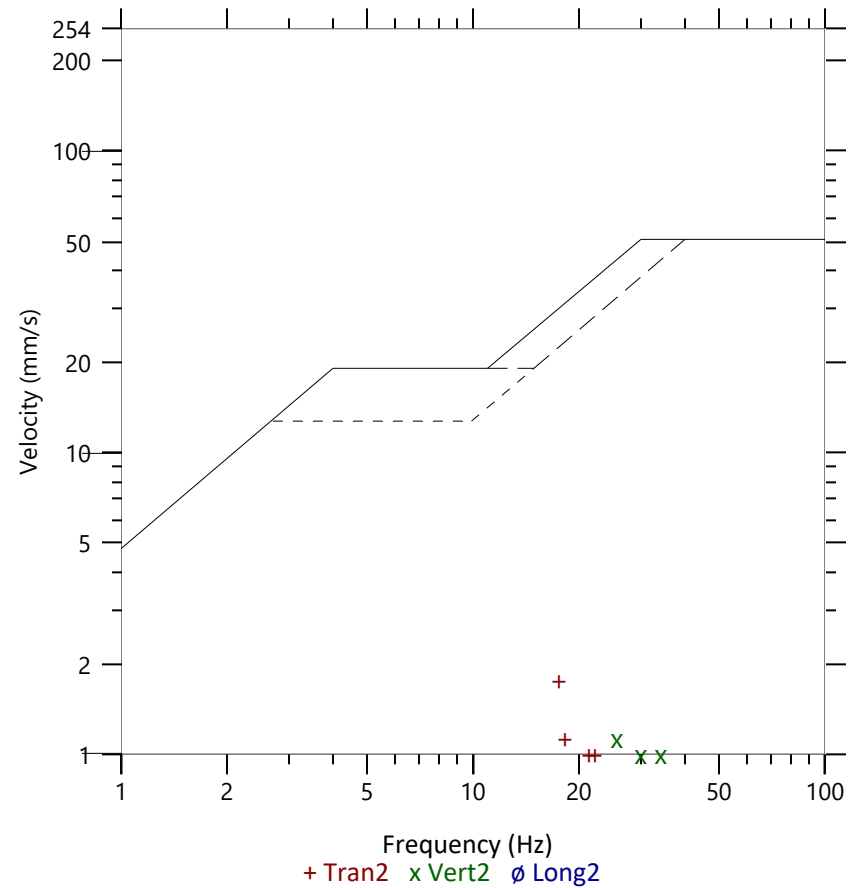
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.778 mm/s	1.143 mm/s	0.254 mm/s
Zero Crossing Frequency	17.7 Hz	25.6 Hz	>100 Hz
Date	May 10, 2023	May 10, 2023	May 10, 2023
Time	08:37:20	08:37:20	06:19:40
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.3	3.5	4.3

Peak Vector Sum: 1.818 mm/s at May 10, 2023 08:37:20

ISEE Linear Microphone
 Peak Sound Pressure Level: 10.75 pa
 Date: May 10, 2023
 Time: 16:28:50
 Zero Crossing Frequency: >100 Hz
 Sensor Check: ✗ Check
 Frequency: 0.0 Hz
 Test Amplitude: 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 11, 2023 06:06:32
Finish May 11, 2023 18:19:46
Number of Intervals/Interval 8798.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230511060632.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

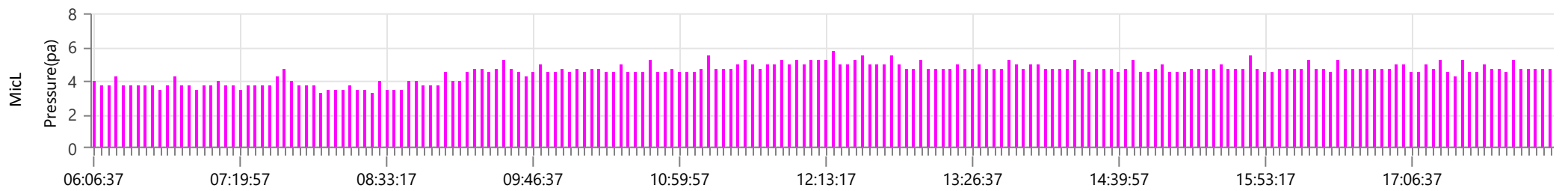
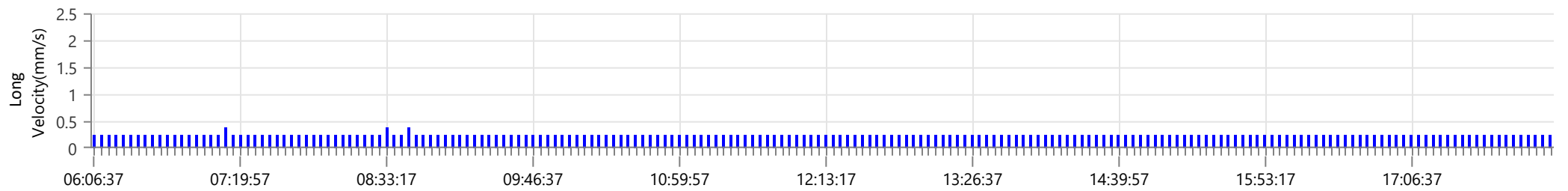
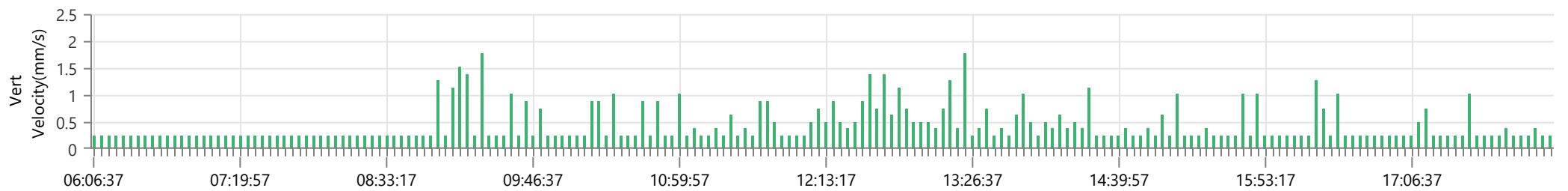
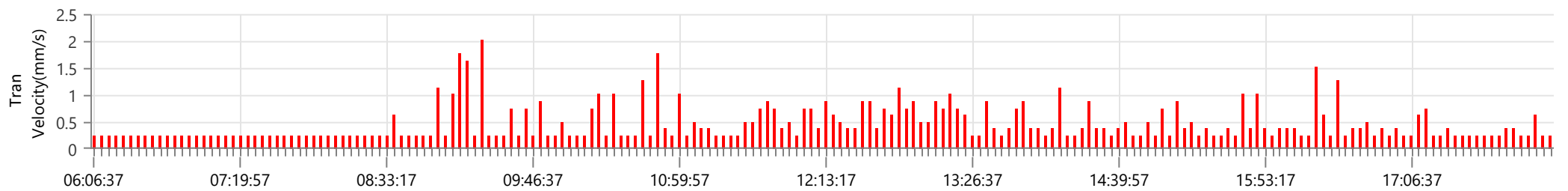
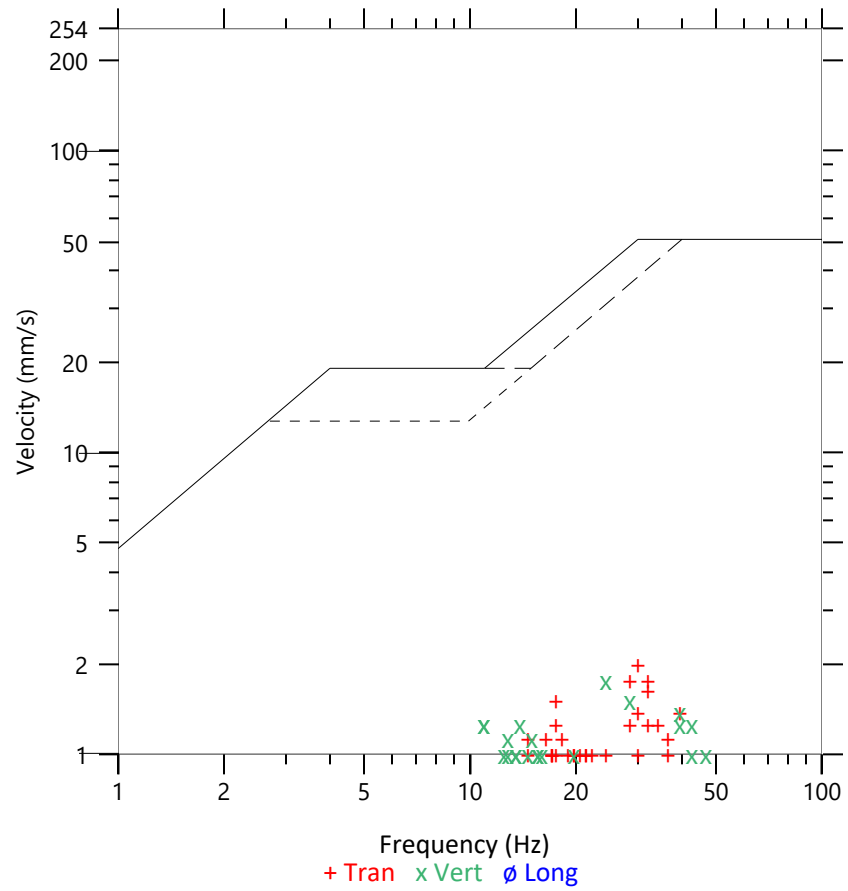
Extended Notes 51.44879 112.68243 51.44881 112.68241

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.032 mm/s	1.778 mm/s	0.381 mm/s
Zero Crossing Frequency	30.1 Hz	24.4 Hz	>100 Hz
Date	May 11, 2023	May 11, 2023	May 11, 2023
Time	09:21:47	09:21:47	07:15:02
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.7 Hz	8.8 Hz
Overswing Ratio	3.3	3.5	2.8
Peak Vector Sum	2.118 mm/s at May 11, 2023 09:21:47		

ISEE Linear Microphone
 Peak Sound Pressure Level 5.75 pa
 Date May 11, 2023
 Time 12:17:52
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 11, 2023 06:06:32
Finish May 11, 2023 18:19:46
Number of Intervals/Interval 8798.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230511060632.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44879 112.68243 51.44881 112.68241

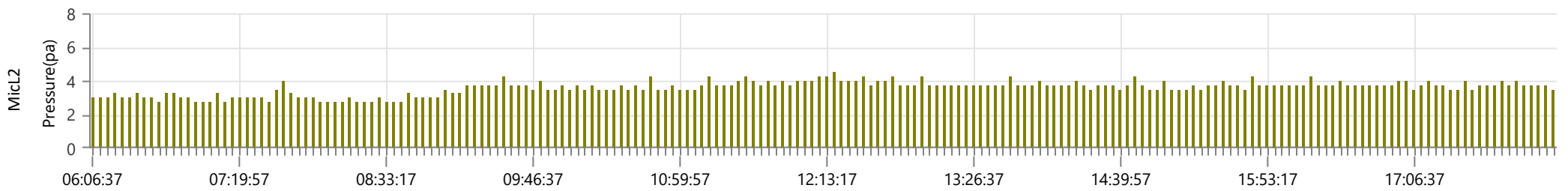
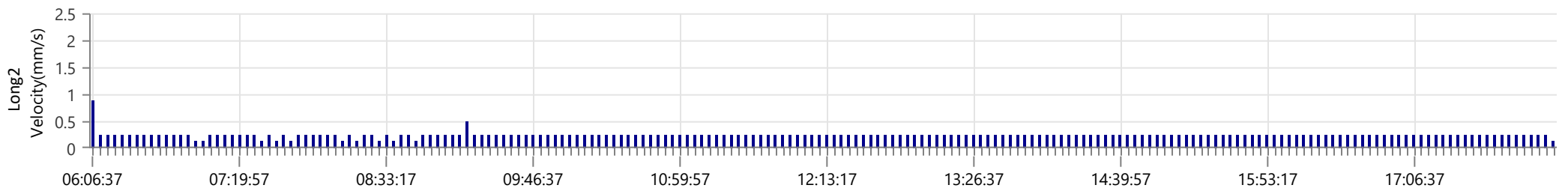
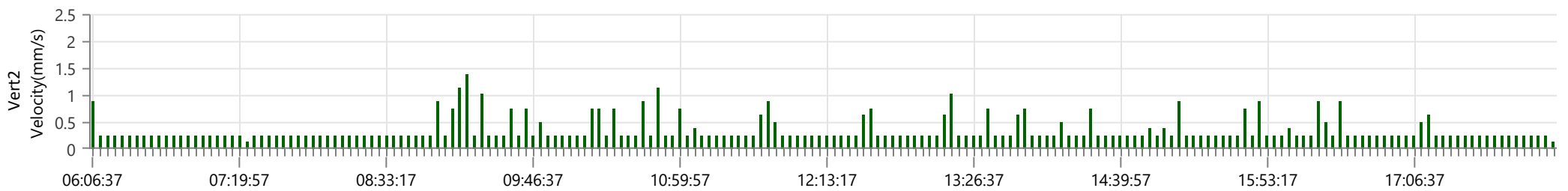
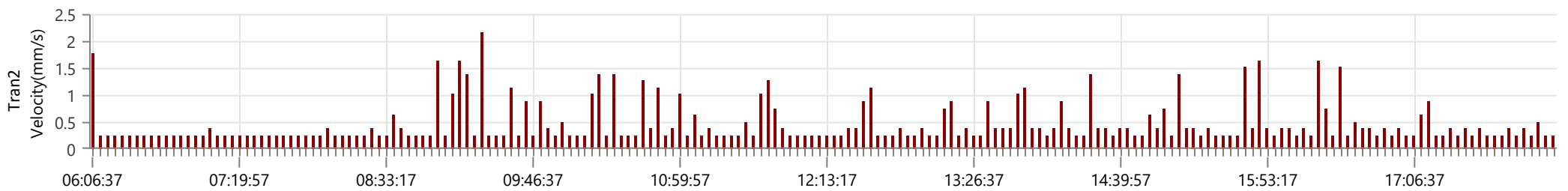
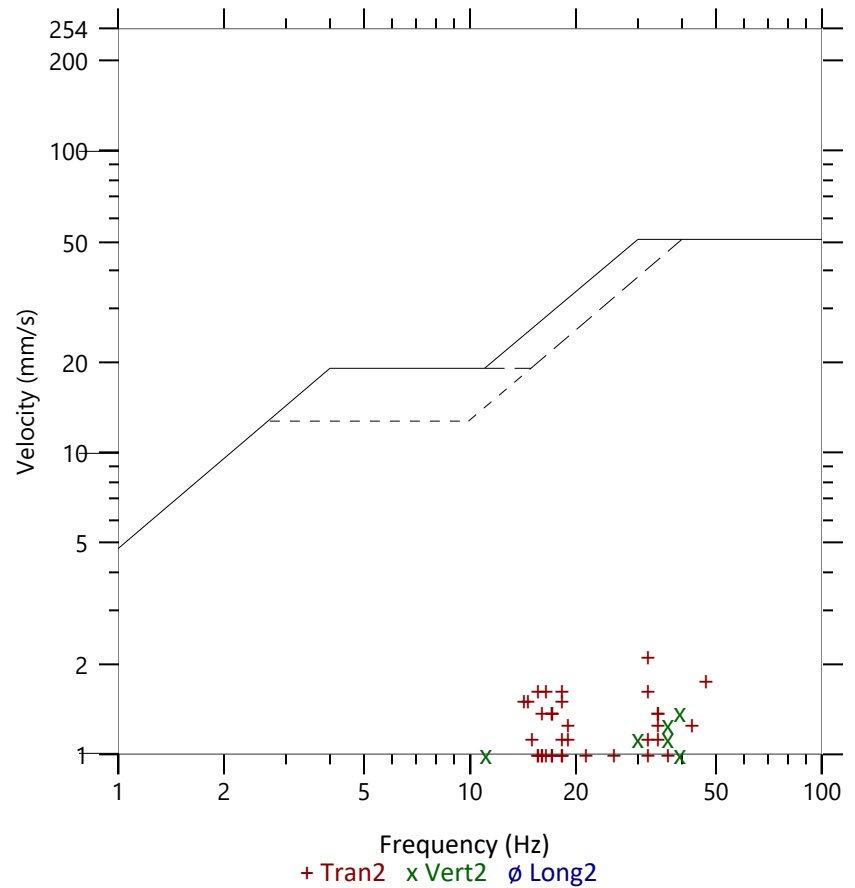
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.159 mm/s	1.397 mm/s	0.889 mm/s
Zero Crossing Frequency	32.0 Hz	39.4 Hz	>100 Hz
Date	May 11, 2023	May 11, 2023	May 11, 2023
Time	09:21:47	09:13:42	06:07:42
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	8.5 Hz	8.6 Hz
Overswing Ratio	3.4	3.2	4.8

Peak Vector Sum 2.192 mm/s at May 11, 2023 09:21:47

ISEE Linear Microphone
Peak Sound Pressure Level 4.50 pa
Date May 11, 2023
Time 12:17:52
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 12, 2023 12:31:33
Finish May 12, 2023 18:48:39
Number of Intervals/Interval 4525.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230512123133.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
willow estate 12 willow point
WSP
User Name: EM
rear of house facing berm

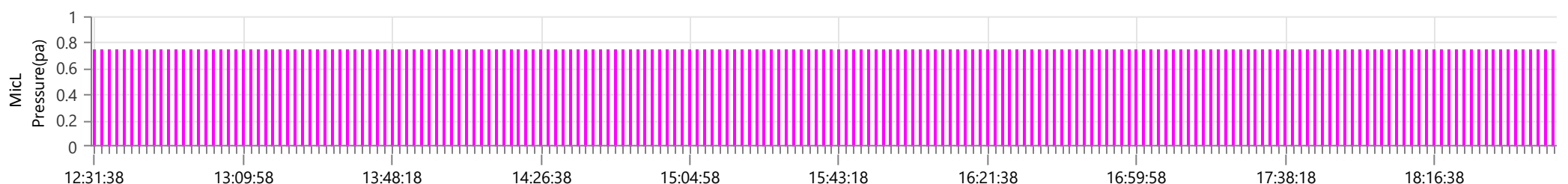
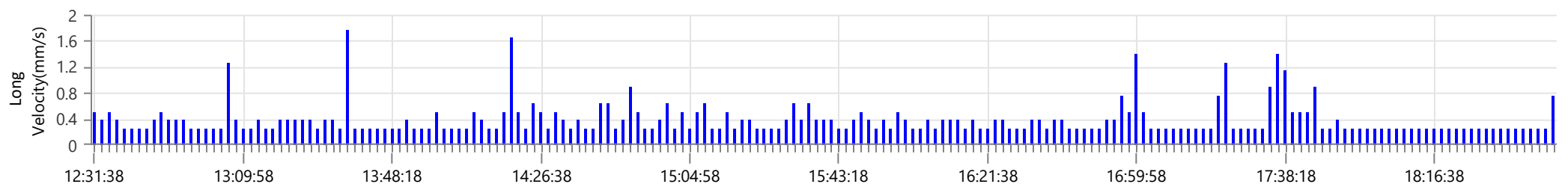
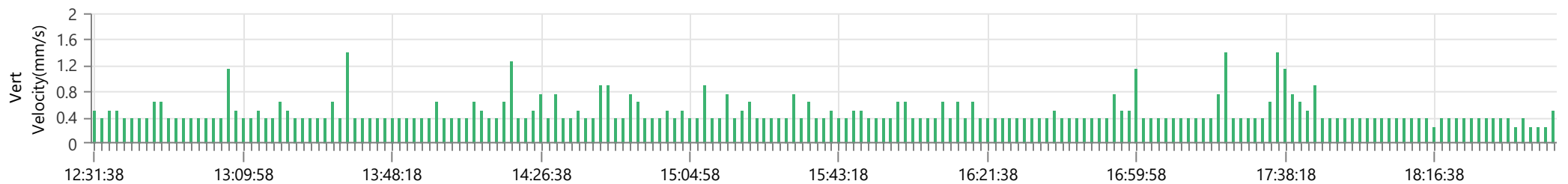
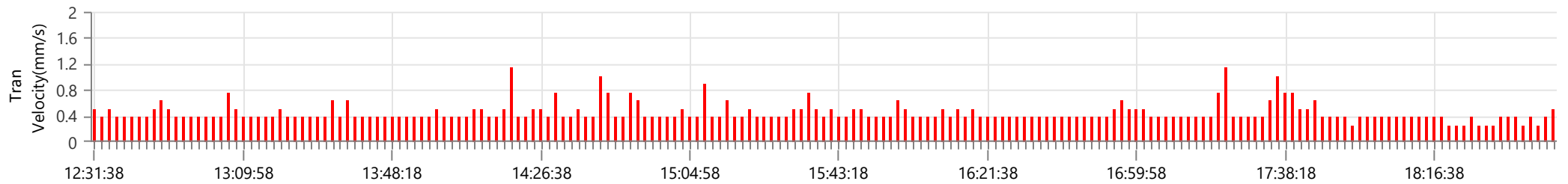
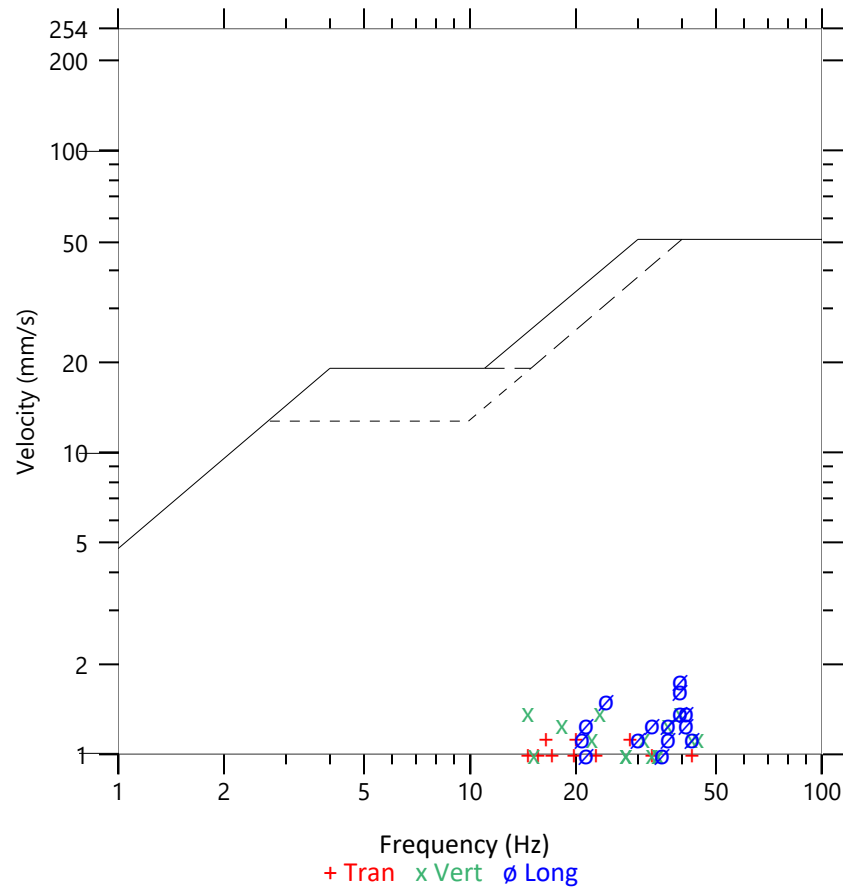
Extended Notes 51.45023 112.68112 51.45025 112.68112
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	1.397 mm/s	1.778 mm/s
Zero Crossing Frequency	16.5 Hz	39.4 Hz	39.4 Hz
Date	May 12, 2023	May 12, 2023	May 12, 2023
Time	14:19:08	13:37:23	13:37:23
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	8.5 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.5	3.5	3.5

Peak Vector Sum 2.189 mm/s at May 12, 2023 13:37:23

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 12, 2023
 Time 12:31:38
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 12, 2023 12:31:33
Finish May 12, 2023 18:48:39
Number of Intervals/Interval 4525.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by InstanTel
Event File Name BA19543_20230512123133.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
willow estate 12 willow point
WSP
User Name: EM
rear of house facing berm

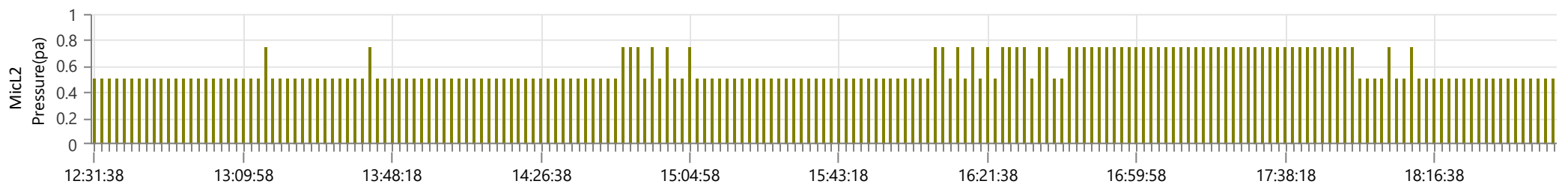
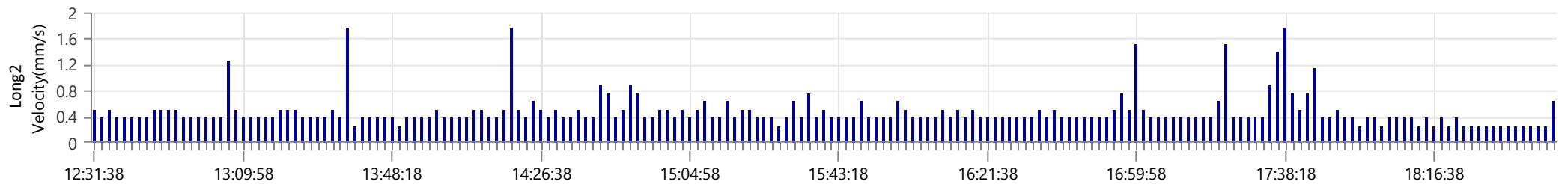
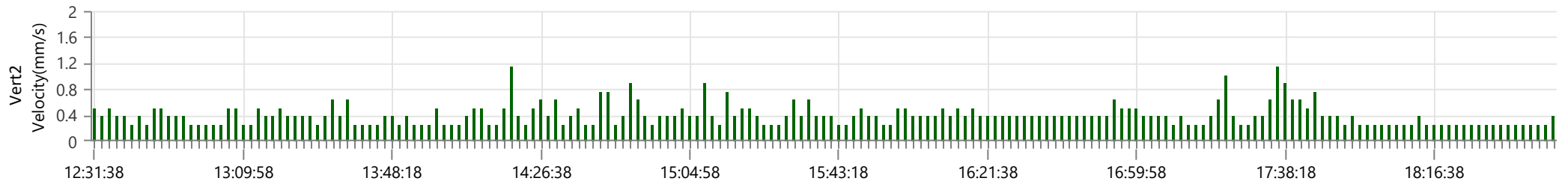
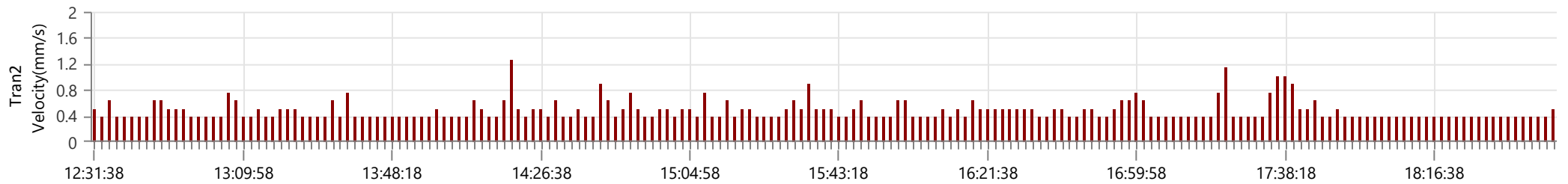
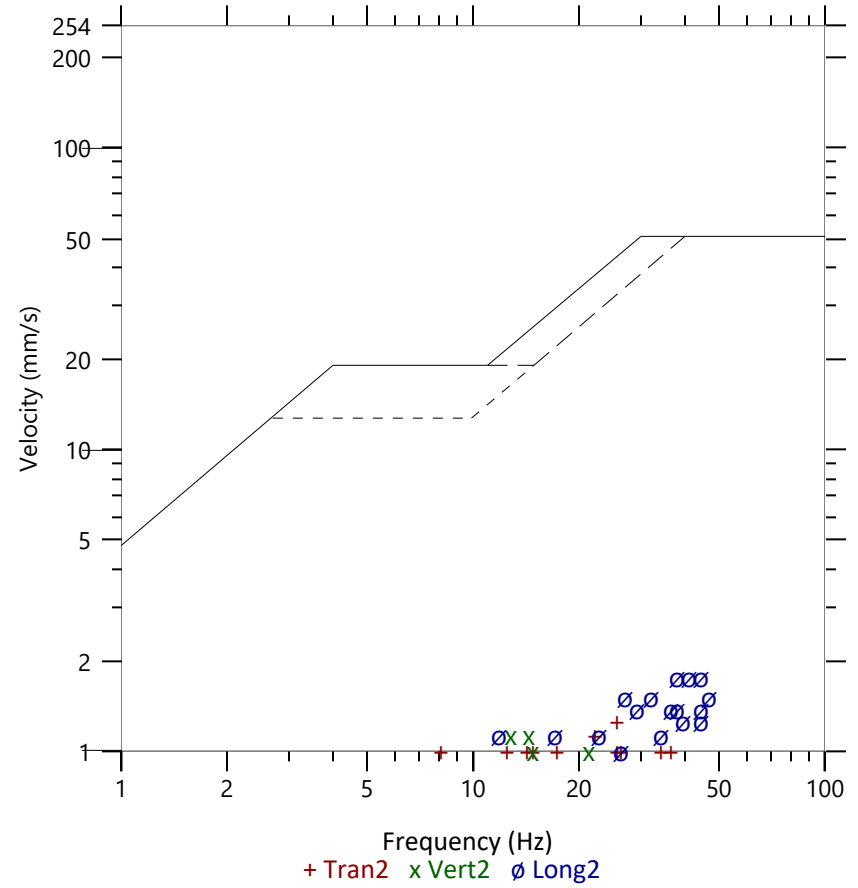
Extended Notes 51.45023 112.68112 51.45025 112.68112
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	1.143 mm/s	1.778 mm/s
Zero Crossing Frequency	25.6 Hz	12.8 Hz	37.9 Hz
Date	May 12, 2023	May 12, 2023	May 12, 2023
Time	14:19:23	14:19:18	13:37:23
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.7	4.1	4.0

Peak Vector Sum 1.955 mm/s at May 12, 2023 17:40:08

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 12, 2023
 Time 13:17:08
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 12, 2023 06:15:05
Finish May 12, 2023 18:30:10
Number of Intervals/Interval 8820.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230512061505.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44881 112.68244 51.44883 112.68241

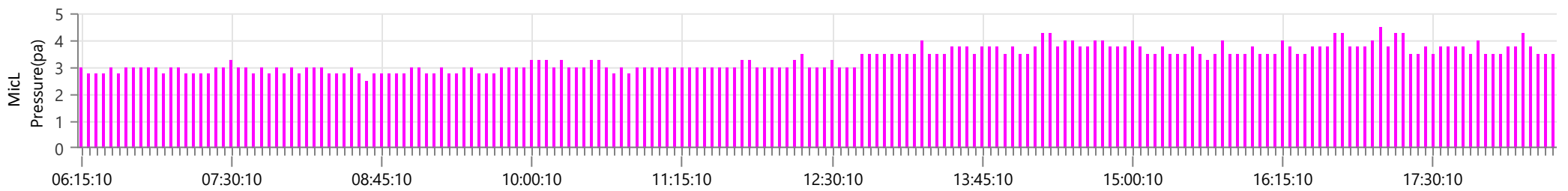
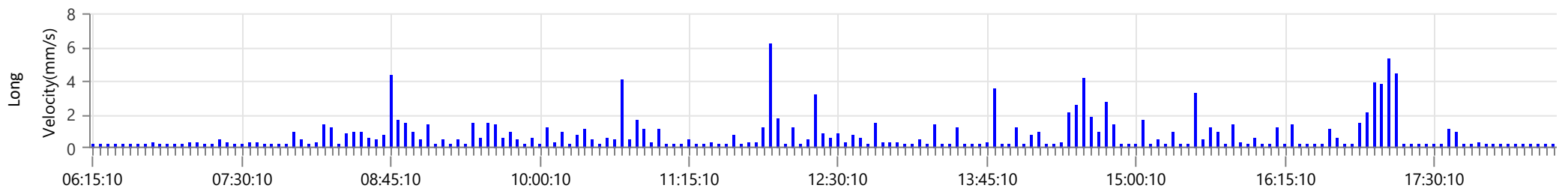
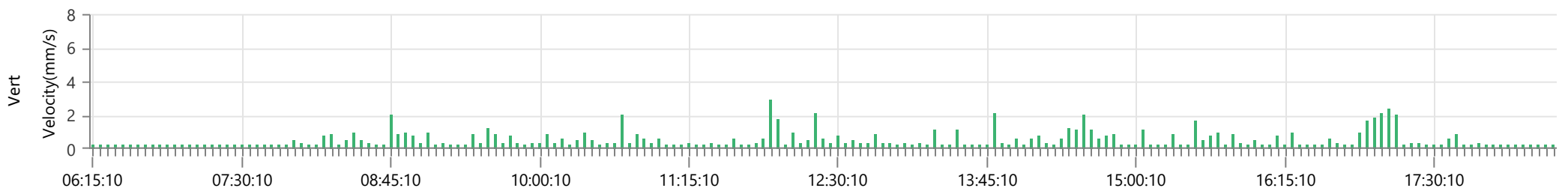
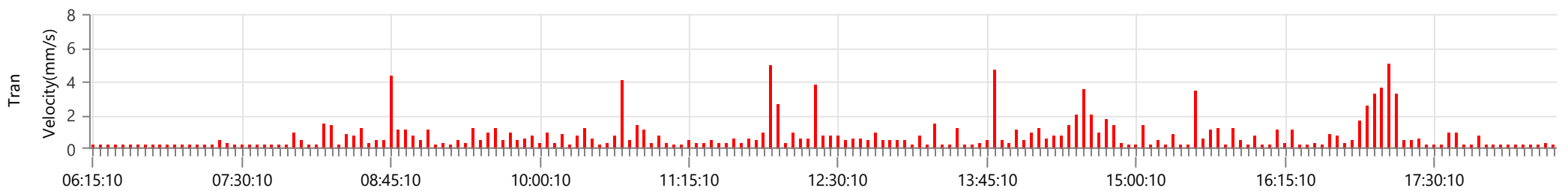
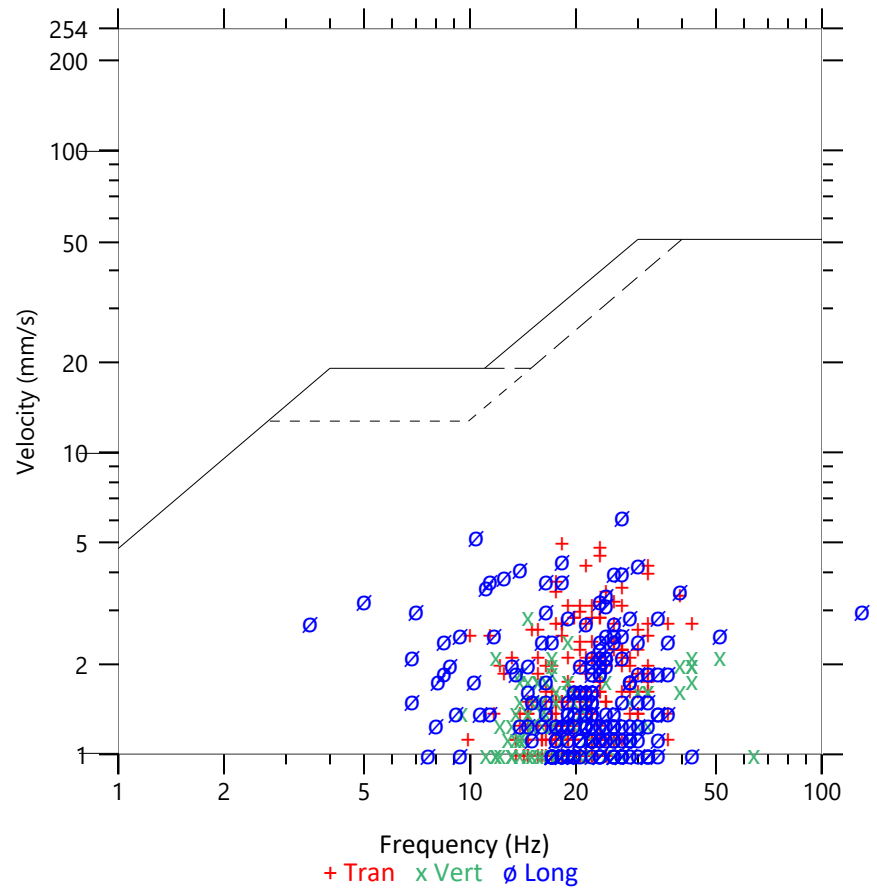
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	5.080 mm/s	2.921 mm/s	6.223 mm/s
Zero Crossing Frequency	18.3 Hz	14.6 Hz	26.9 Hz
Date	May 12, 2023	May 12, 2023	May 12, 2023
Time	17:08:25	11:59:55	11:59:55
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	8.5 Hz
Overswing Ratio	3.3	3.4	5.7

Peak Vector Sum 7.970 mm/s at May 12, 2023 11:59:55

ISEE Linear Microphone
 Peak Sound Pressure Level 4.50 pa
 Date May 12, 2023
 Time 17:04:00
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 12, 2023 06:15:05
Finish May 12, 2023 18:30:10
Number of Intervals/Interval 8820.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230512061505.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44881 112.68244 51.44883 112.68241

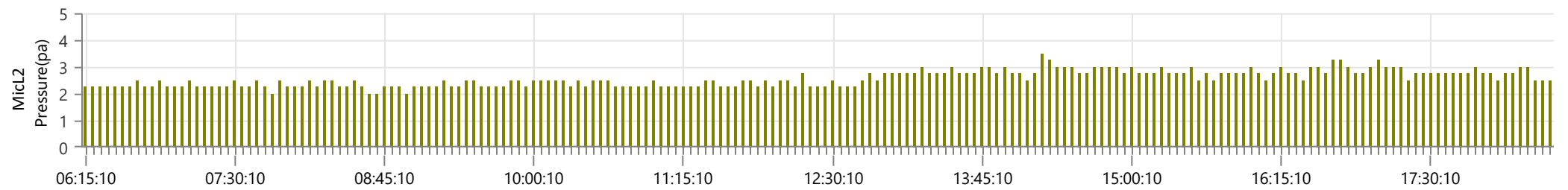
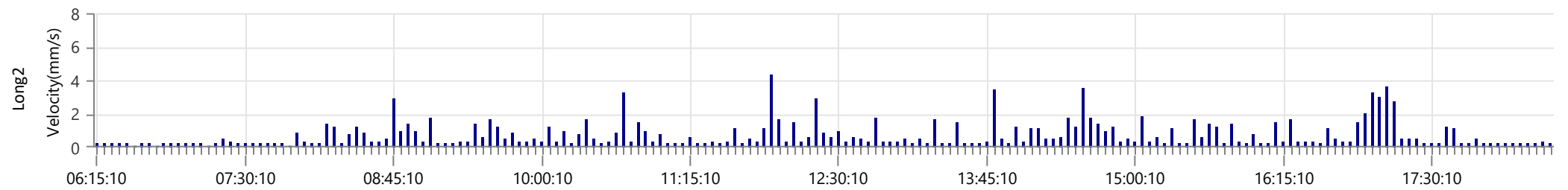
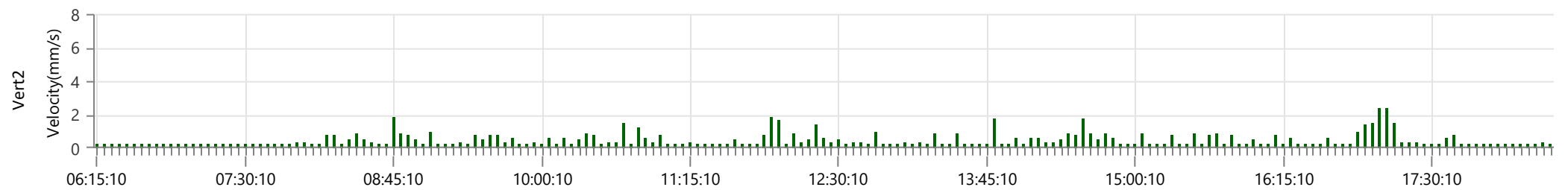
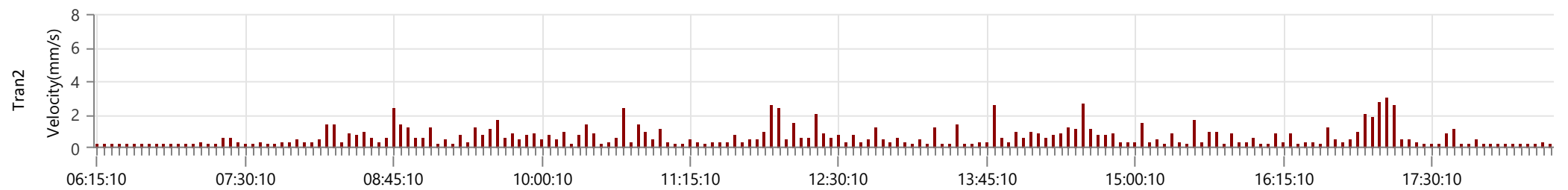
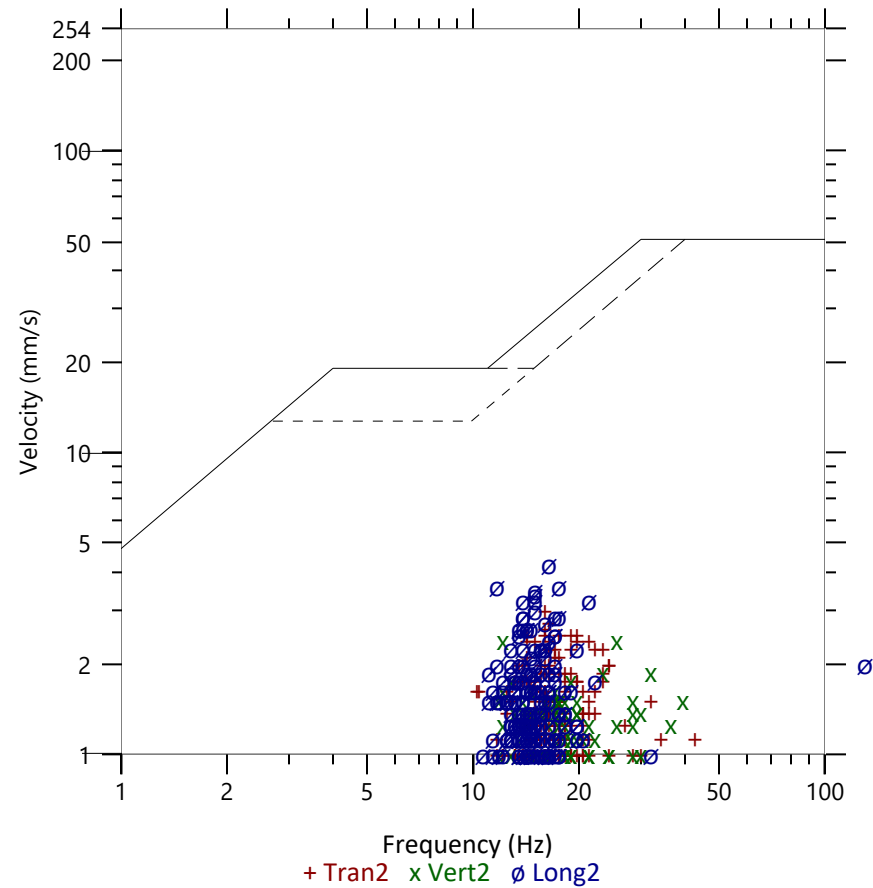
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.048 mm/s	2.413 mm/s	4.318 mm/s
Zero Crossing Frequency	16.0 Hz	25.6 Hz	16.5 Hz
Date	May 12, 2023	May 12, 2023	May 12, 2023
Time	17:08:25	17:05:00	11:59:55
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.8 Hz	8.3 Hz	8.5 Hz
Overswing Ratio	3.2	3.2	3.5

Peak Vector Sum 5.048 mm/s at May 12, 2023 11:59:55

ISEE Linear Microphone
Peak Sound Pressure Level 3.50 pa
Date May 12, 2023
Time 14:18:35
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 13, 2023 06:22:15
Finish May 13, 2023 17:08:42
Number of Intervals/Interval 7757.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230513062215.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
willow estate 18 willow point
WSP
User Name: EM
rear of house facing berm

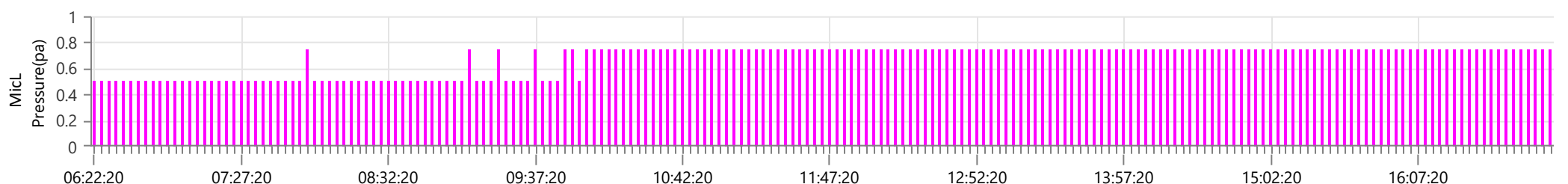
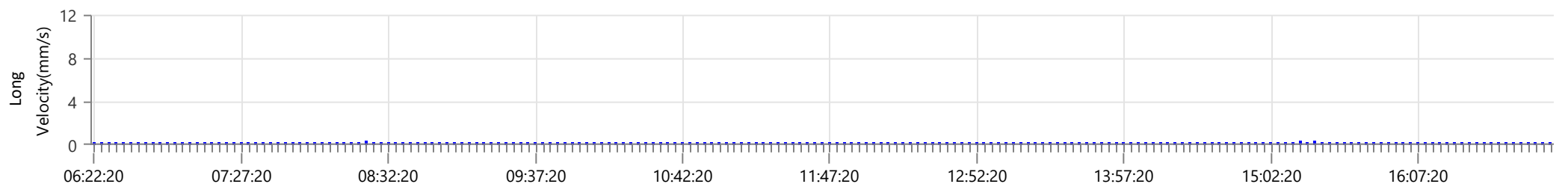
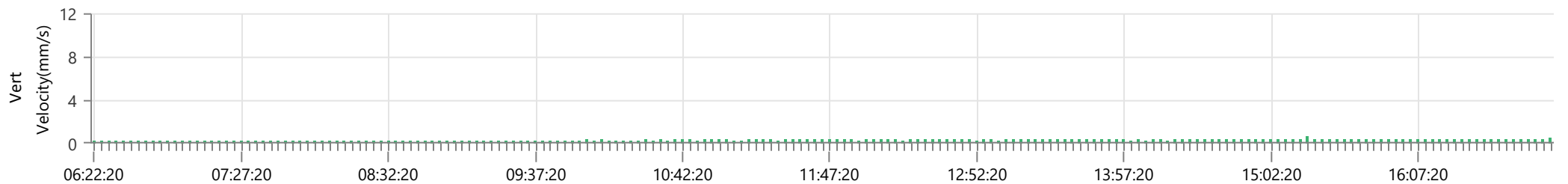
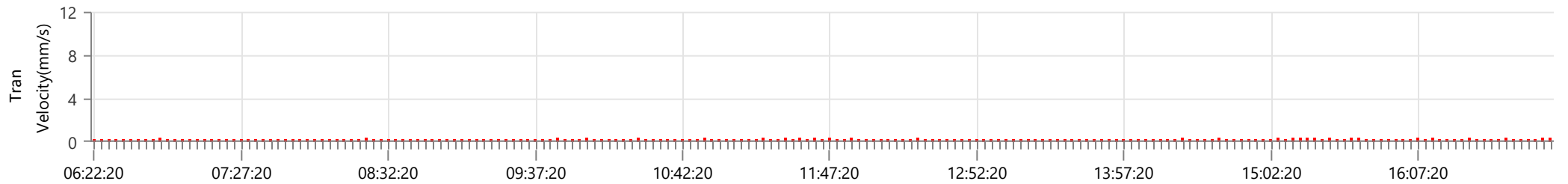
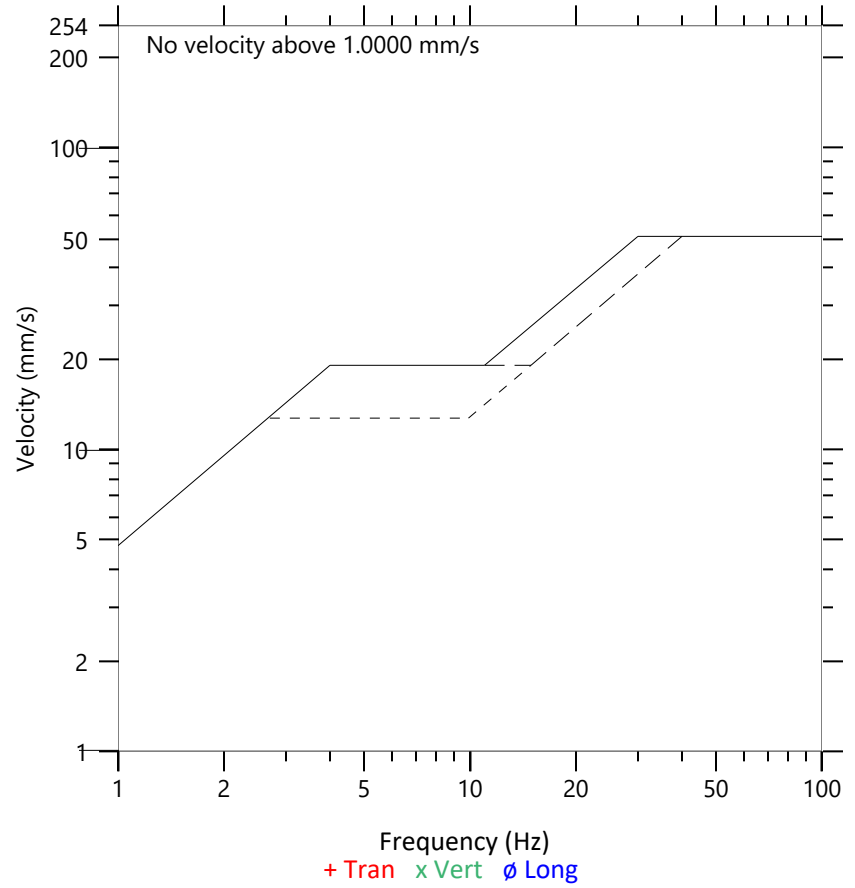
Extended Notes 51.44983 112.68080 51.44985 112.68084
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.381 mm/s	0.635 mm/s	0.381 mm/s
Zero Crossing Frequency	>100 Hz	>100 Hz	>100 Hz
Date	May 13, 2023	May 13, 2023	May 13, 2023
Time	06:54:20	15:20:15	08:23:25
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	10.8 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	6.3	3.4	3.3

Peak Vector Sum 0.684 mm/s at May 13, 2023 15:20:15

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 13, 2023
 Time 07:56:45
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 13, 2023 06:22:15
Finish May 13, 2023 17:08:42
Number of Intervals/Interval 7757.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230513062215.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

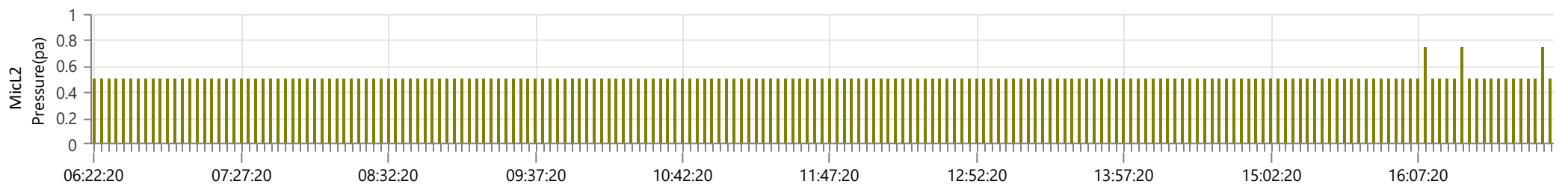
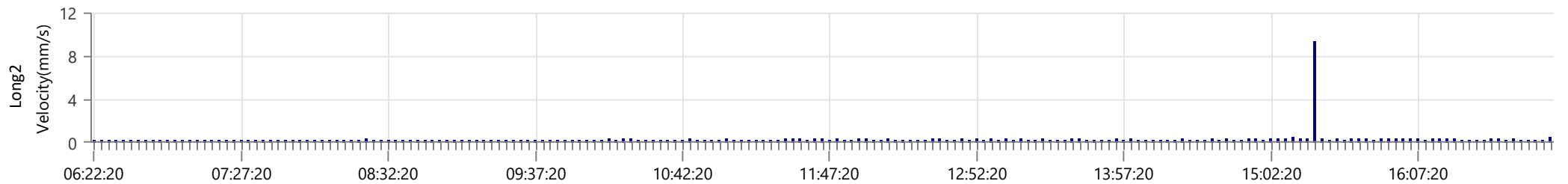
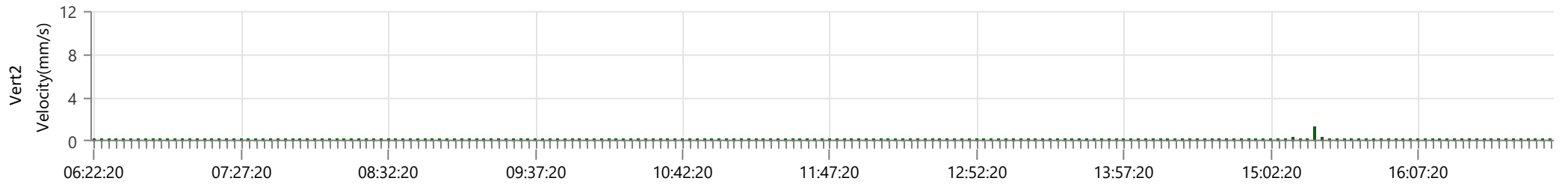
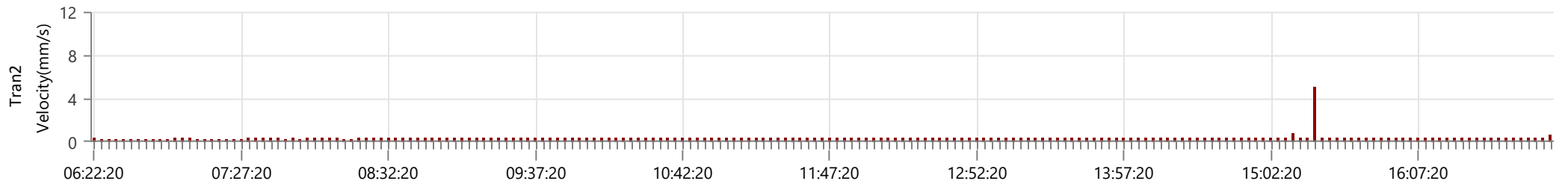
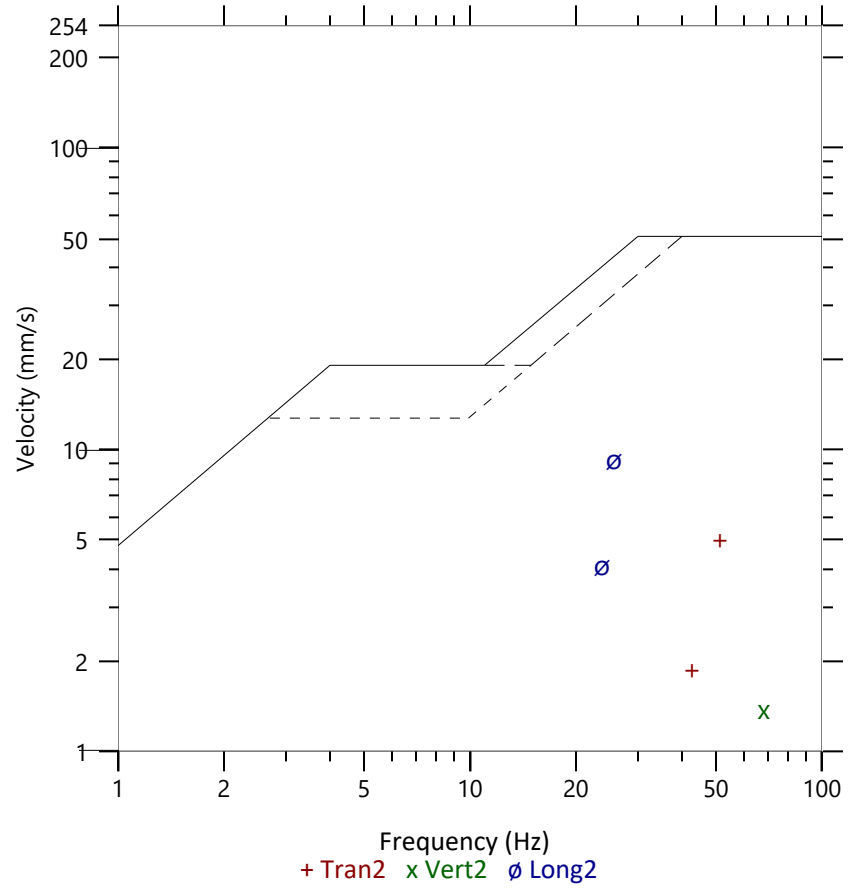
Notes
willow estate 18 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44983 112.68080 51.44985 112.68084
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.080 mm/s	1.397 mm/s	9.398 mm/s
Zero Crossing Frequency	51.2 Hz	68.3 Hz	25.6 Hz
Date	May 13, 2023	May 13, 2023	May 13, 2023
Time	15:24:50	15:24:50	15:24:50
Sensor Check	✘ Check	✘ Check	✘ Check
Frequency	14.4 Hz	22.8 Hz	16.3 Hz
Overswing Ratio	4.3	0.2	0.2
Peak Vector Sum	9.805 mm/s at May 13, 2023 15:24:50		

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date May 13, 2023
Time 16:10:40
Zero Crossing Frequency >100 Hz
Sensor Check ✘ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 13, 2023 06:00:30
Finish May 13, 2023 17:01:26
Number of Intervals/Interval 7931.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230513060030.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

Extended Notes 51.44878 112.68247 51.44881 112.68244

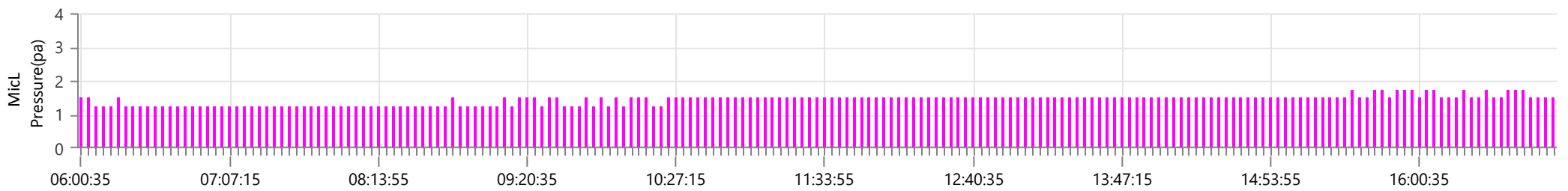
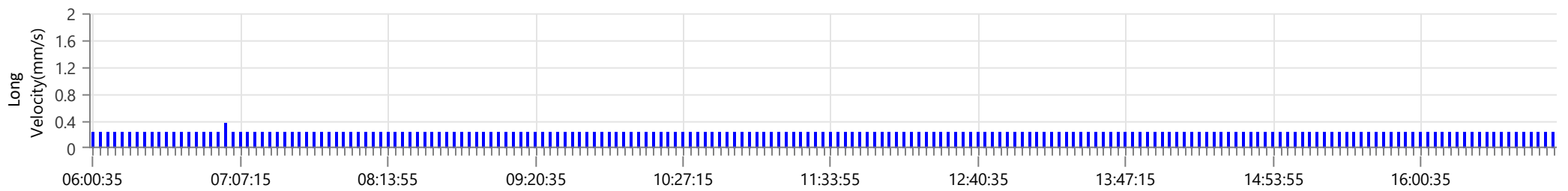
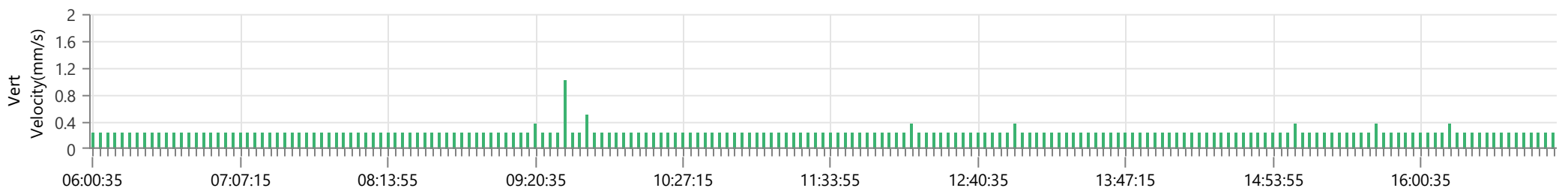
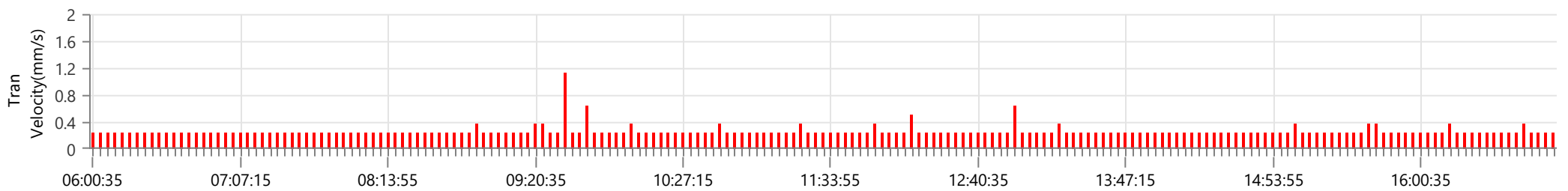
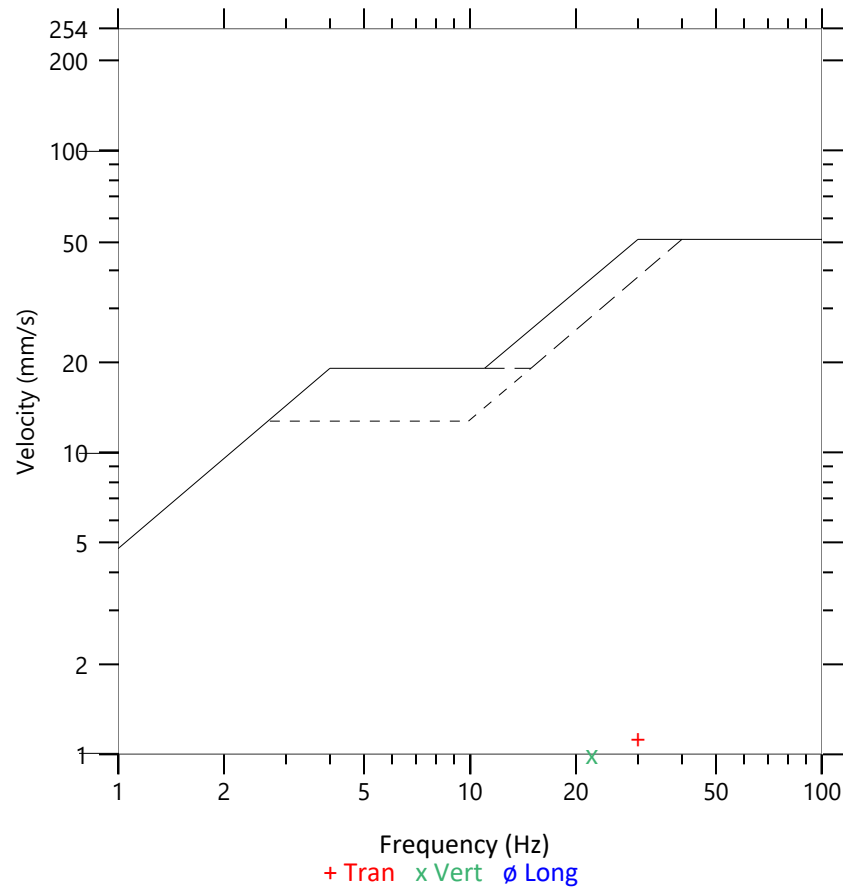
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	1.016 mm/s	0.381 mm/s
Zero Crossing Frequency	30.1 Hz	22.3 Hz	>100 Hz
Date	May 13, 2023	May 13, 2023	May 13, 2023
Time	09:37:00	09:37:00	07:01:00
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	8.3 Hz	9.2 Hz
Overswing Ratio	3.2	3.1	3.2

Peak Vector Sum 1.178 mm/s at May 13, 2023 09:37:05

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 13, 2023
 Time 15:32:40
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 13, 2023 06:00:30
Finish May 13, 2023 17:01:26
Number of Intervals/Interval 7931.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230513060030.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way KCB
User Name: EM
General: side of house facing dike

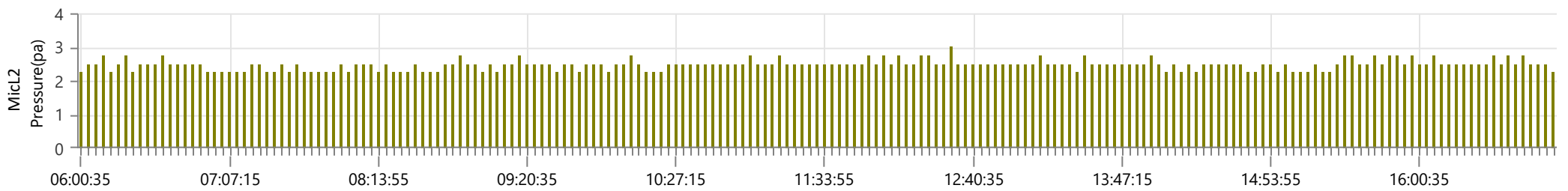
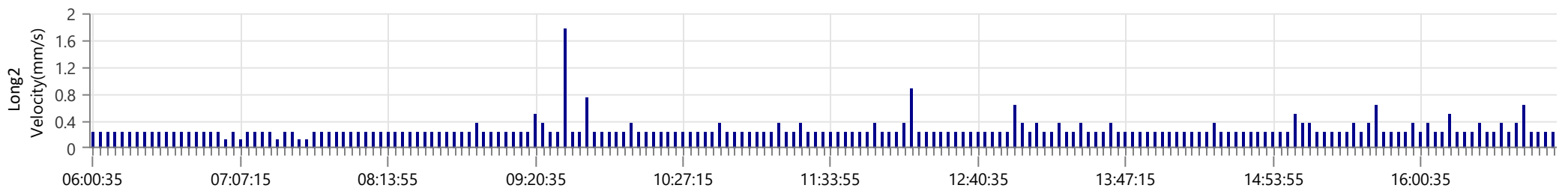
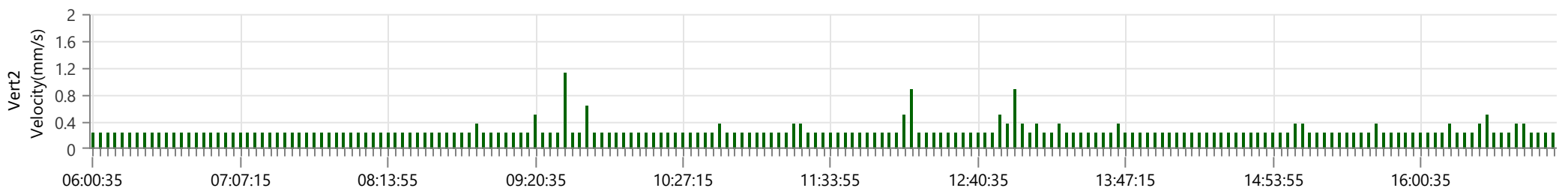
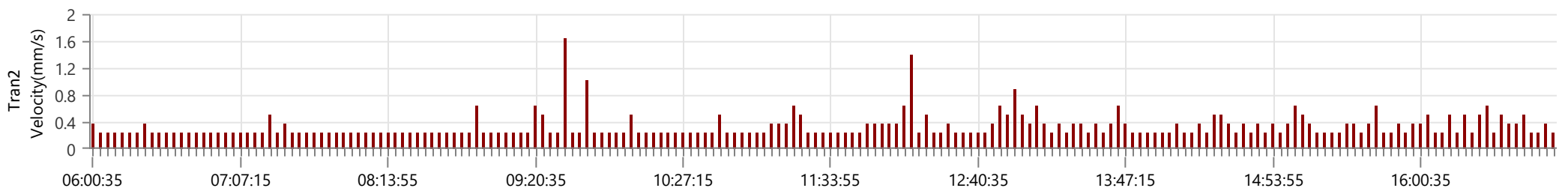
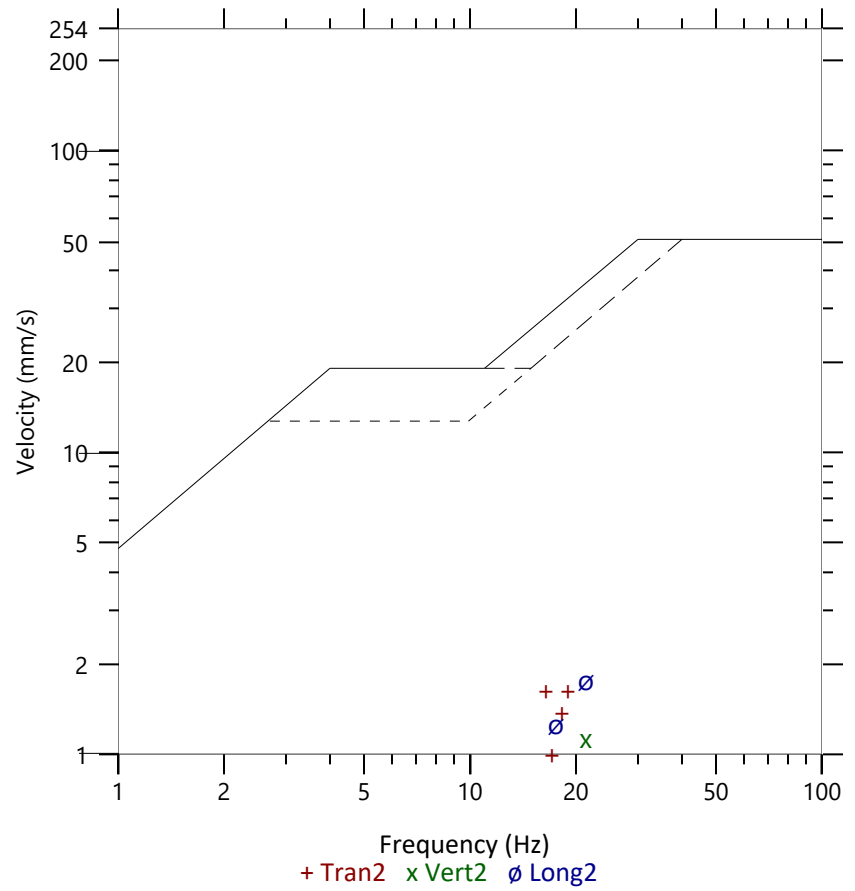
Extended Notes 51.44878 112.68247 51.44881 112.68244

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.651 mm/s	1.143 mm/s	1.778 mm/s
Zero Crossing Frequency	16.5 Hz	21.3 Hz	21.3 Hz
Date	May 13, 2023	May 13, 2023	May 13, 2023
Time	09:37:00	09:37:05	09:37:00
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.5 Hz	8.6 Hz
Overswing Ratio	3.3	3.5	3.4
Peak Vector Sum	1.888 mm/s at May 13, 2023 09:37:05		

ISEE Linear Microphone
Peak Sound Pressure Level 3.00 pa
Date May 13, 2023
Time 12:30:35
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 15, 2023 06:01:21
Finish May 15, 2023 18:19:16
Number of Intervals/Interval 8855.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230515060121.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

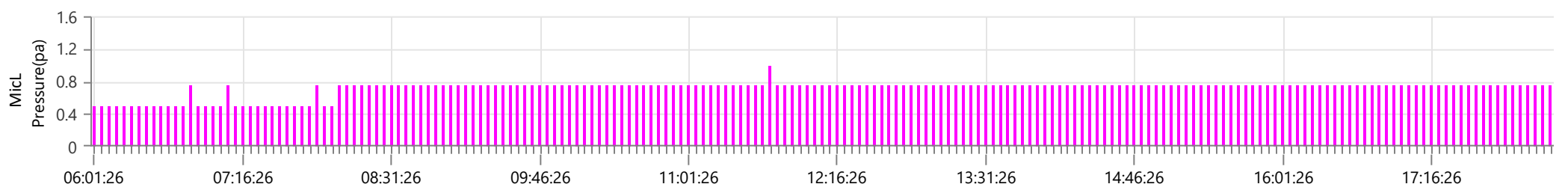
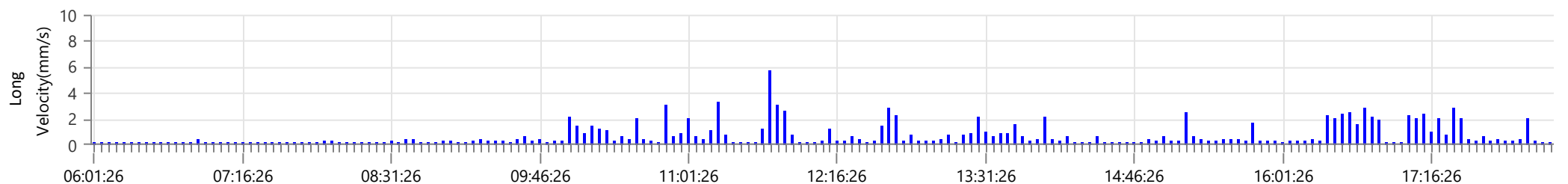
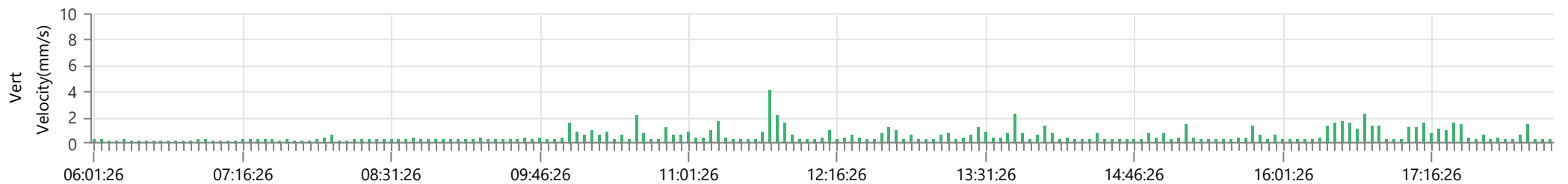
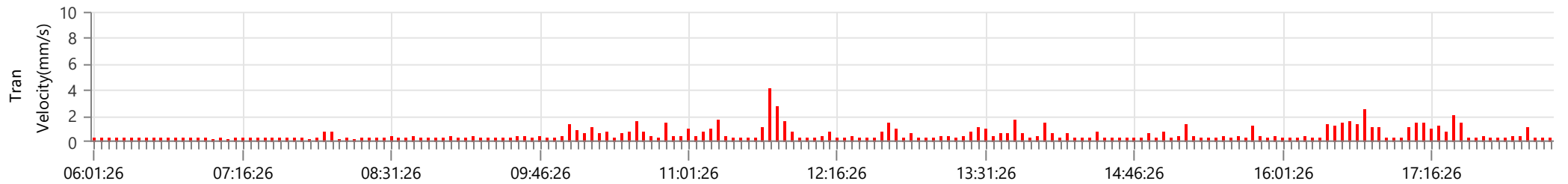
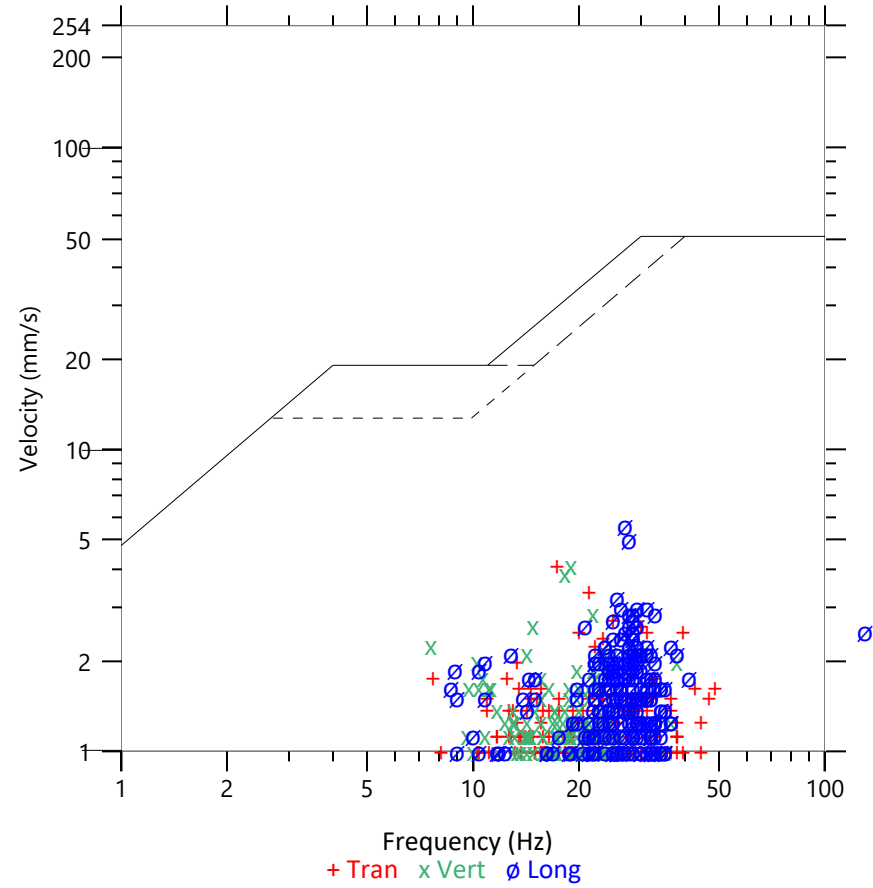
Notes
willow estate 14 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.45021 112.68113 51.45024 112.68114
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.191 mm/s	4.191 mm/s	5.715 mm/s
Zero Crossing Frequency	17.4 Hz	19.0 Hz	26.9 Hz
Date	May 15, 2023	May 15, 2023	May 15, 2023
Time	11:45:36	11:45:21	11:45:36
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.4	3.3
Peak Vector Sum	6.281 mm/s at May 15, 2023 11:45:36		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 15, 2023
 Time 11:45:36
 Zero Crossing Frequency 64.0 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 15, 2023 06:01:21
Finish May 15, 2023 18:19:16
Number of Intervals/Interval 8855.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7947

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230515060121.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

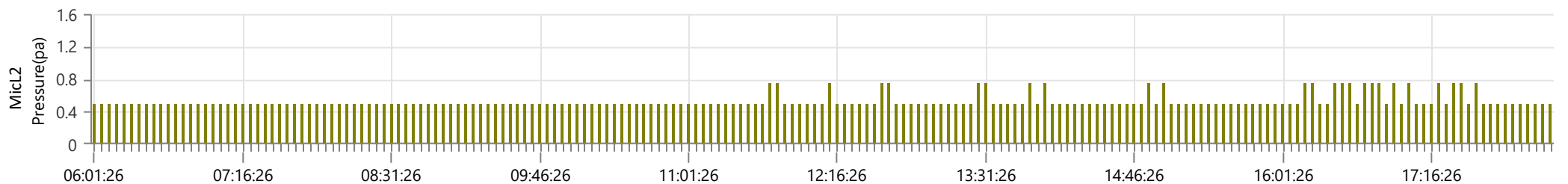
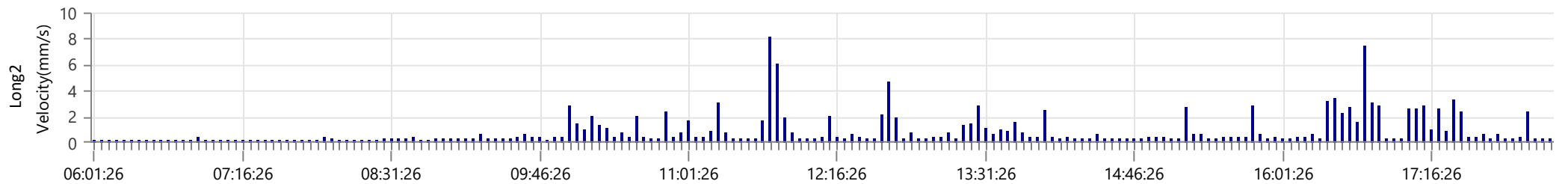
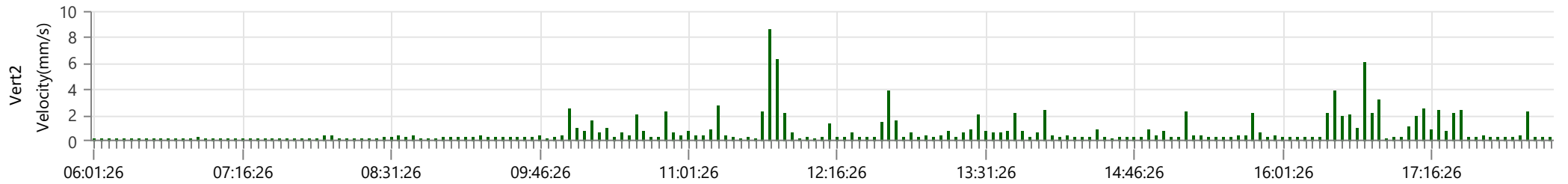
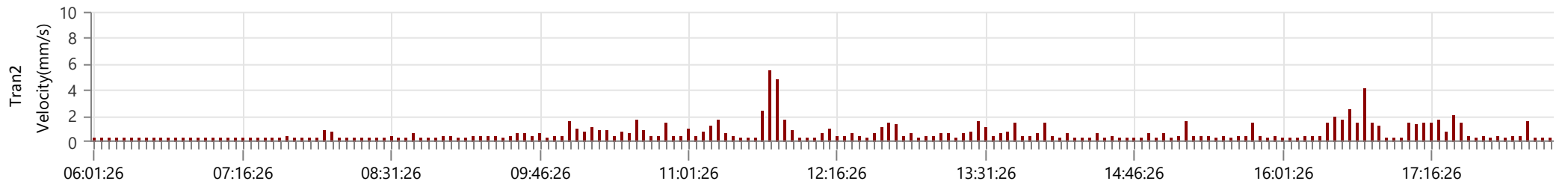
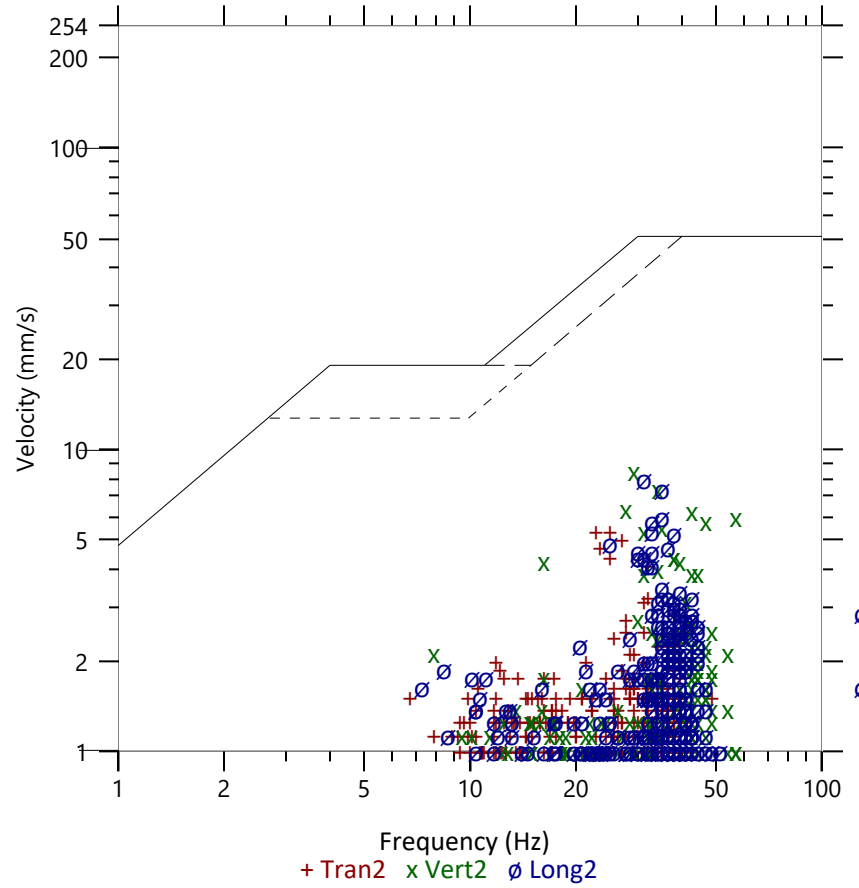
Notes
willow estate 14 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.45021 112.68113 51.45024 112.68114
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.461 mm/s	8.636 mm/s	8.128 mm/s
Zero Crossing Frequency	22.8 Hz	29.3 Hz	31.0 Hz
Date	May 15, 2023	May 15, 2023	May 15, 2023
Time	11:45:36	11:45:36	11:45:36
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.6	4.0	3.8
Peak Vector Sum	9.390 mm/s at May 15, 2023 11:45:36		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 15, 2023
 Time 11:45:16
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 15, 2023 06:07:49
Finish May 15, 2023 18:12:10
Number of Intervals/Interval 8692.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230515060749.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7948
22 willow point WSP
User Name: EM
General: rear of house facing dike

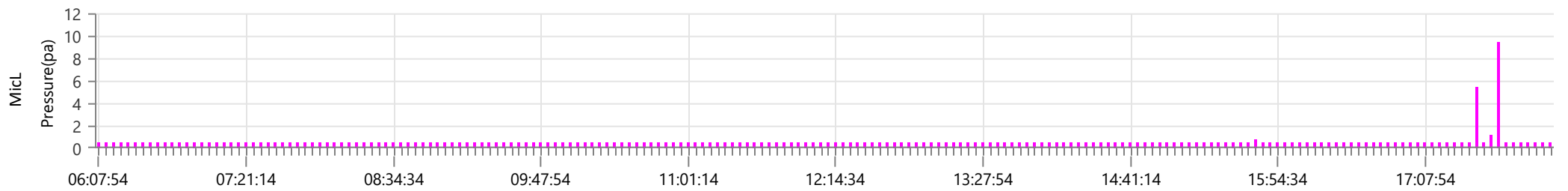
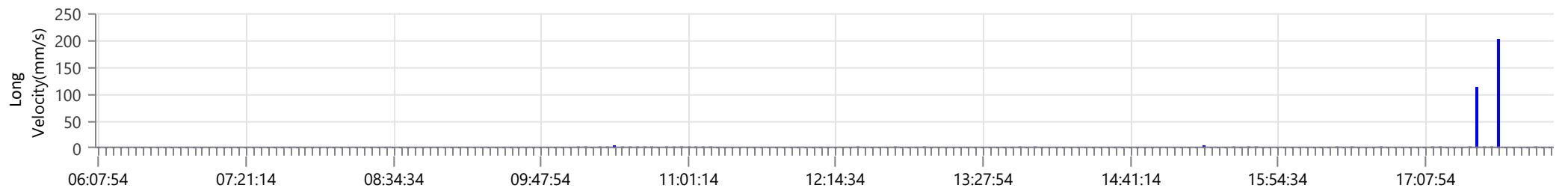
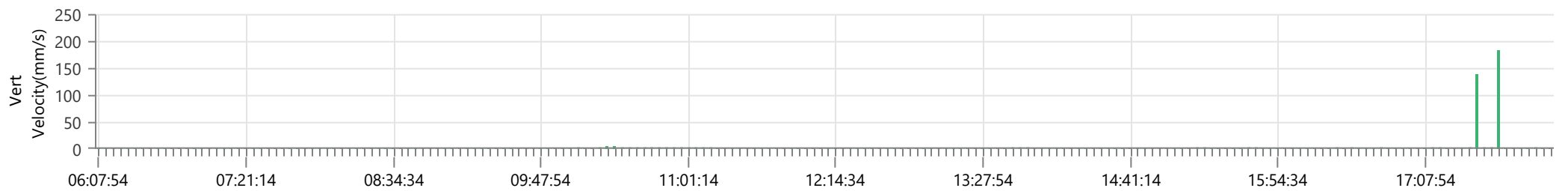
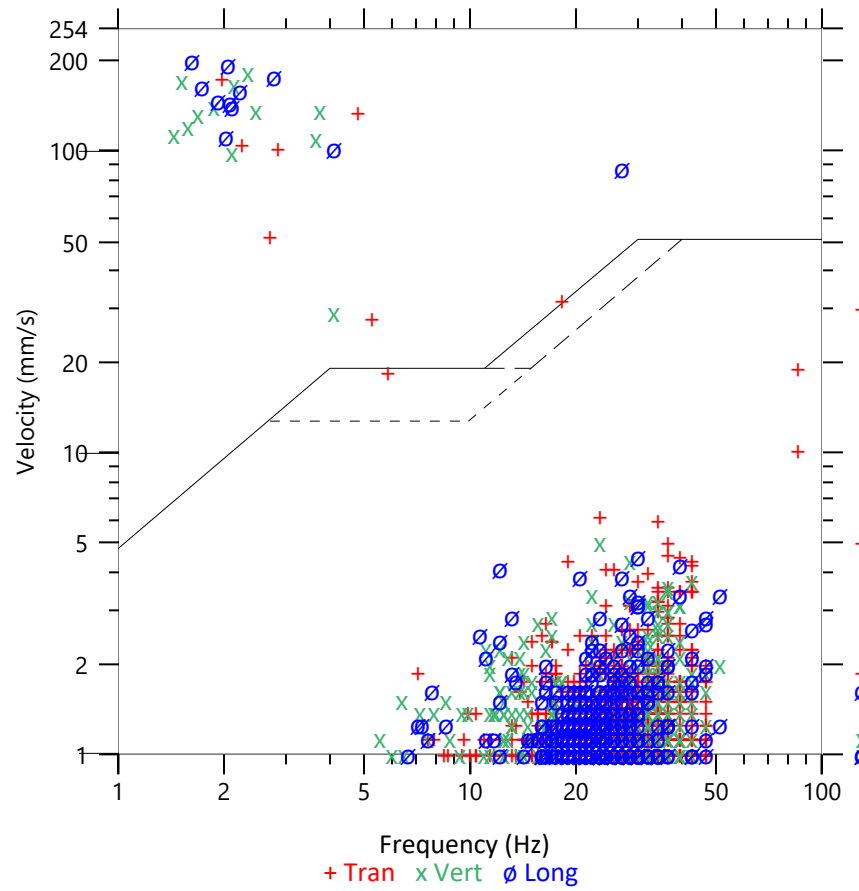
Extended Notes 51.44967 112.68067 51.44969 112.68069

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	176.403 mm/s	184.531 mm/s	202.184 mm/s
Zero Crossing Frequency	2.0 Hz	2.3 Hz	1.6 Hz
Date	May 15, 2023	May 15, 2023	May 15, 2023
Time	17:34:04	17:46:39	17:46:19
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.8 Hz
Overswing Ratio	3.3	3.2	3.5
Peak Vector Sum	230.868 mm/s at May 15, 2023 17:46:19		

ISEE Linear Microphone
 Peak Sound Pressure Level 9.50 pa
 Date May 15, 2023
 Time 17:46:19
 Zero Crossing Frequency 1.8 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 15, 2023 06:07:49
Finish May 15, 2023 18:12:10
Number of Intervals/Interval 8692.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230515060749.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7948
22 willow point WSP
User Name: EM
General: rear of house facing dike

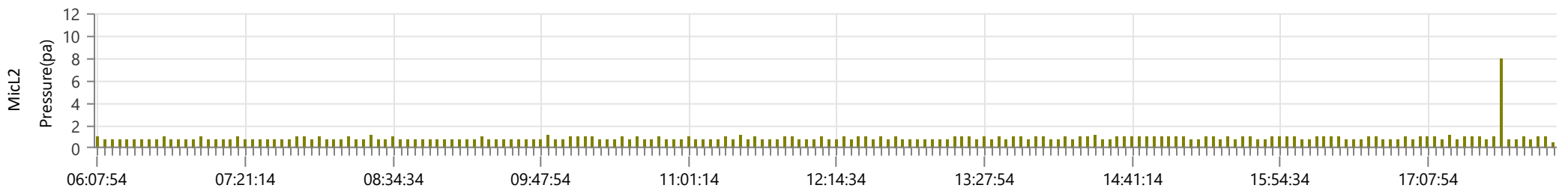
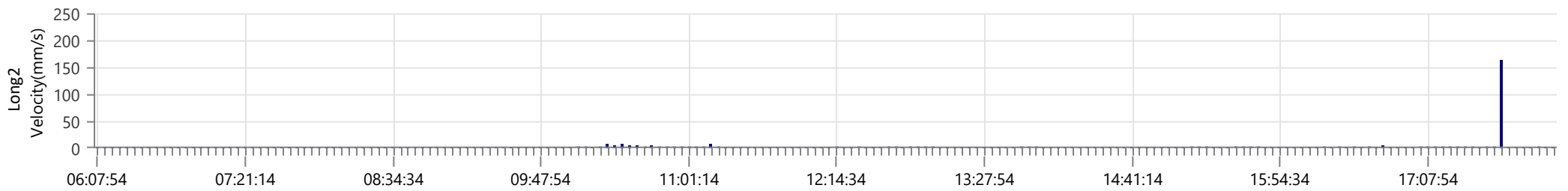
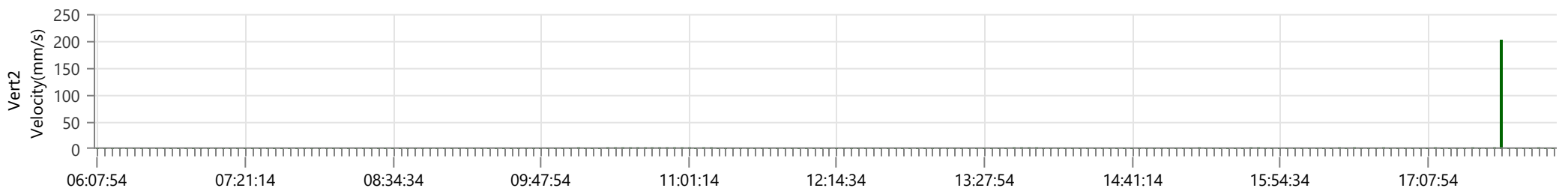
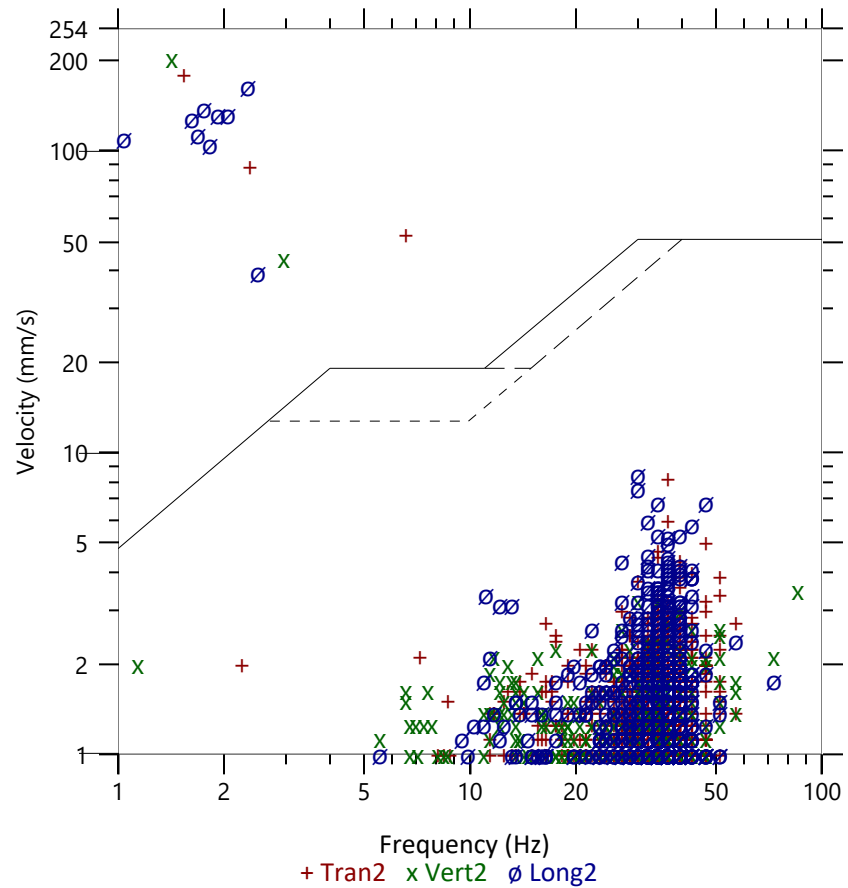
Extended Notes 51.44967 112.68067 51.44969 112.68069

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	181.991 mm/s	203.835 mm/s	165.227 mm/s
Zero Crossing Frequency	1.5 Hz	1.4 Hz	2.3 Hz
Date	May 15, 2023	May 15, 2023	May 15, 2023
Time	17:46:39	17:46:39	17:46:39
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	3.2	3.5	3.5
Peak Vector Sum	224.535 mm/s at May 15, 2023 17:46:39		

ISEE Linear Microphone
Peak Sound Pressure Level 8.00 pa
Date May 15, 2023
Time 17:46:39
Zero Crossing Frequency 2.5 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 16, 2023 06:15:01
Finish May 16, 2023 18:57:31
Number of Intervals/Interval 9150.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230516061501.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
14 willow point WSP
User Name: EM
General: rear of house facing dike

Extended Notes 51.45020 112.68112 51.45022 112.68114

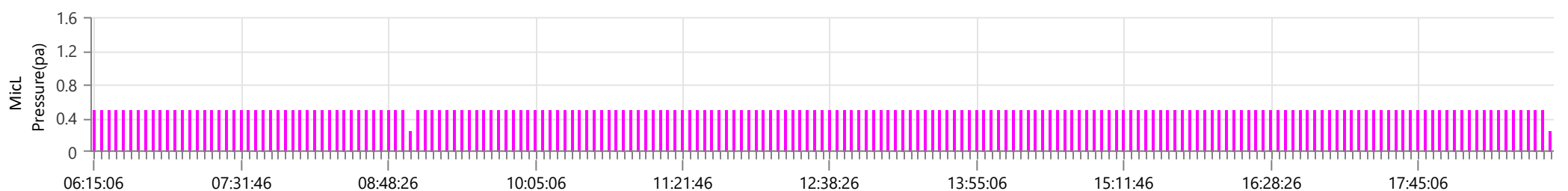
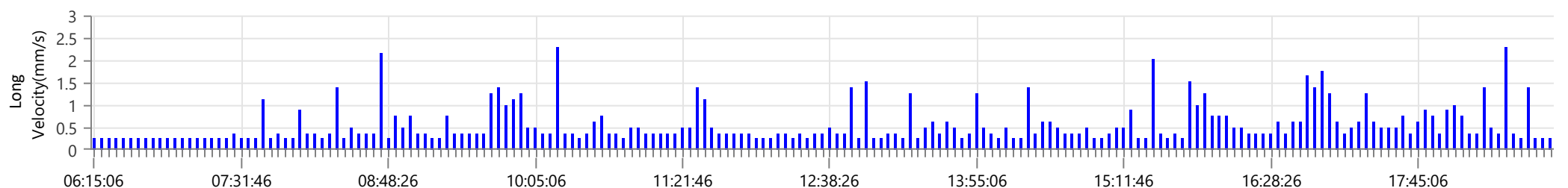
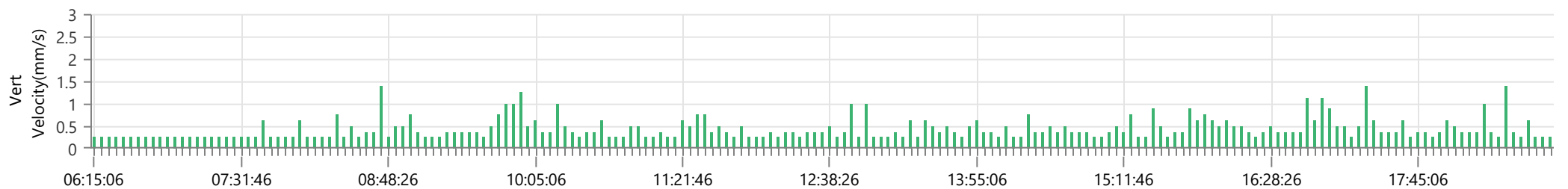
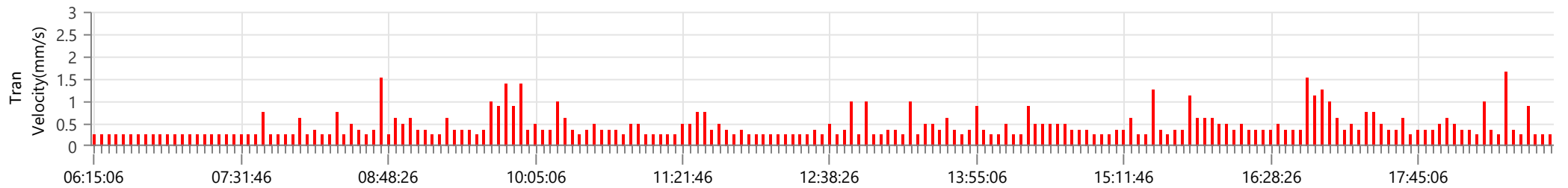
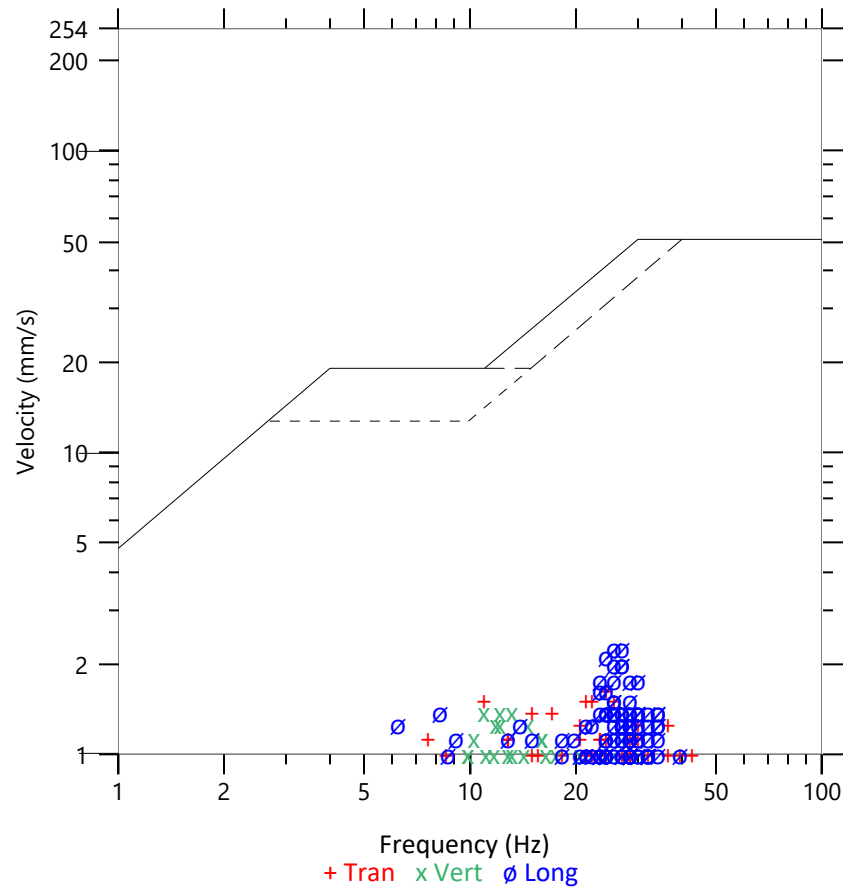
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.651 mm/s	1.397 mm/s	2.286 mm/s
Zero Crossing Frequency	24.4 Hz	10.9 Hz	26.9 Hz
Date	May 16, 2023	May 16, 2023	May 16, 2023
Time	18:34:11	08:46:06	10:19:16
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	3.4	3.6	3.6

Peak Vector Sum 2.655 mm/s at May 16, 2023 08:46:01

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 16, 2023
 Time 06:18:16
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 16, 2023 06:15:01
Finish May 16, 2023 18:57:31
Number of Intervals/Interval 9150.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230516061501.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
14 willow point WSP
User Name: EM
General: rear of house facing dike

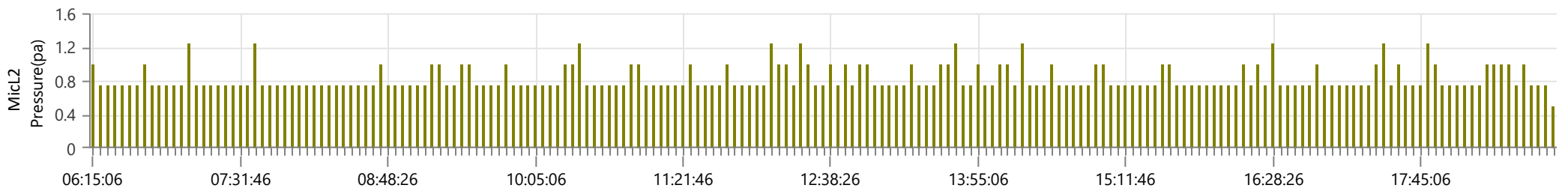
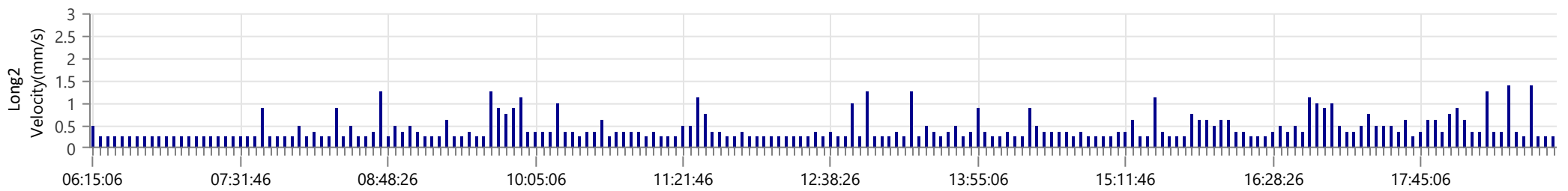
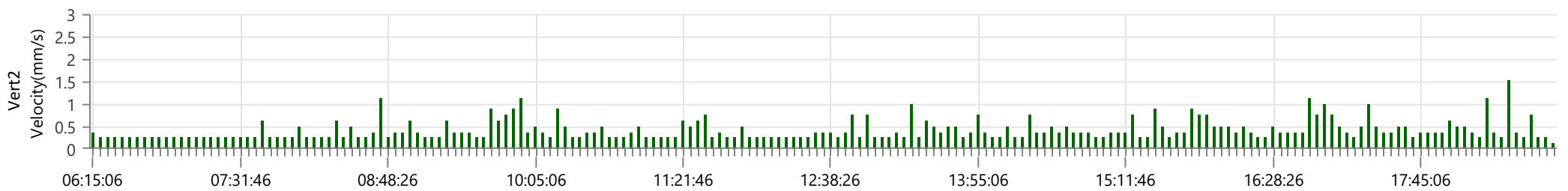
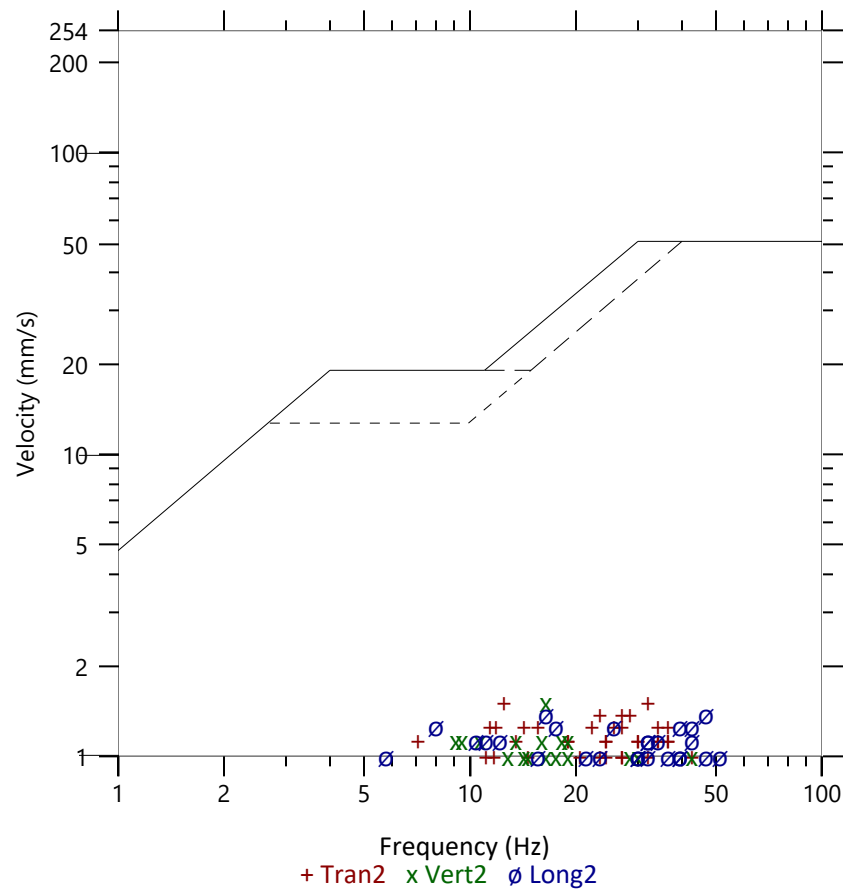
Extended Notes 51.45020 112.68112 51.45022 112.68114

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.524 mm/s	1.397 mm/s
Zero Crossing Frequency	12.5 Hz	16.5 Hz	16.5 Hz
Date	May 16, 2023	May 16, 2023	May 16, 2023
Time	16:49:51	18:34:06	18:34:06
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.8 Hz
Overswing Ratio	3.3	3.3	3.6
Peak Vector Sum	2.102 mm/s at May 16, 2023 16:49:51		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 16, 2023
 Time 07:05:06
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 16, 2023 06:02:39
Finish May 16, 2023 18:56:35
Number of Intervals/Interval 9287.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230516060239.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

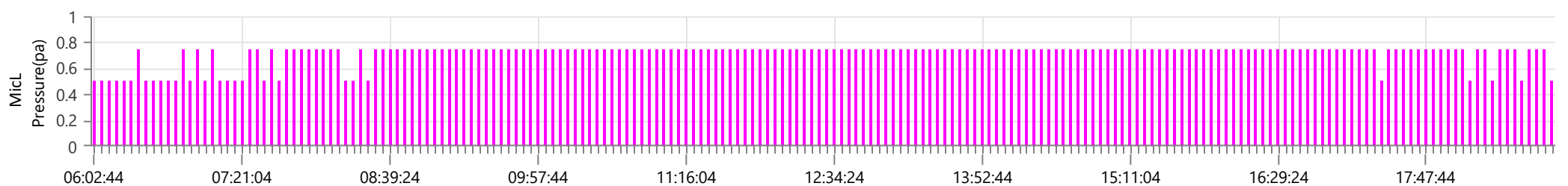
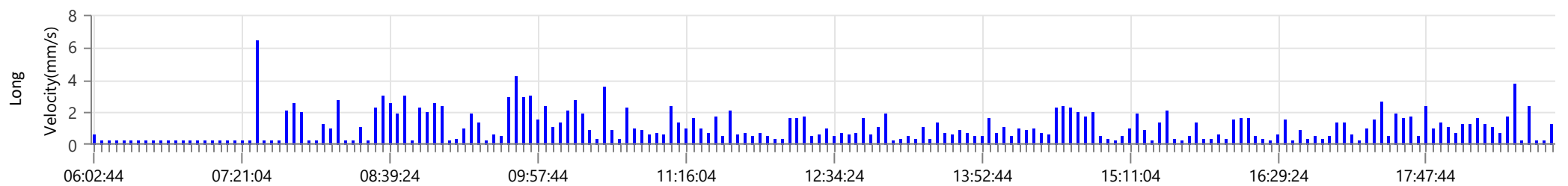
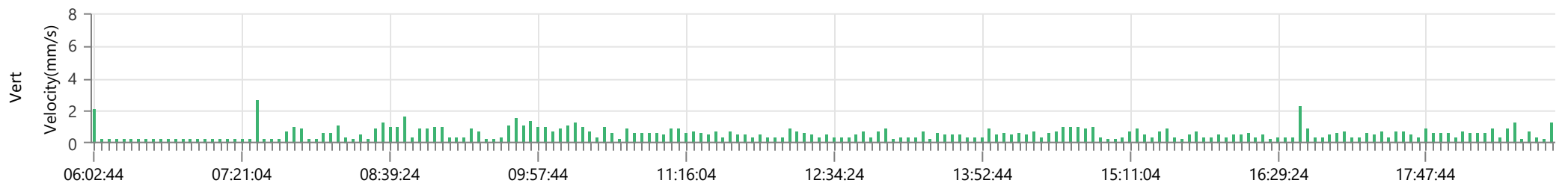
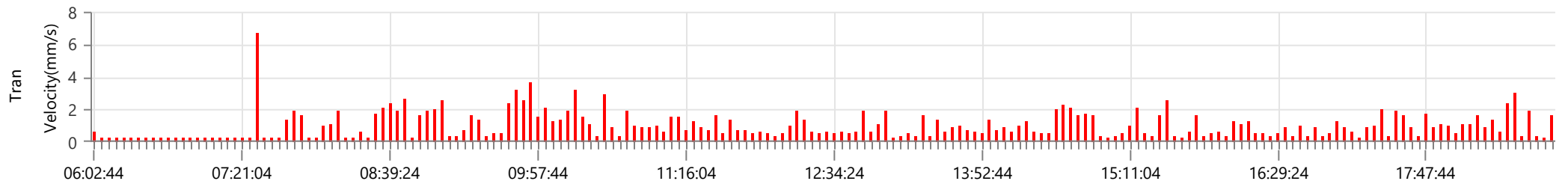
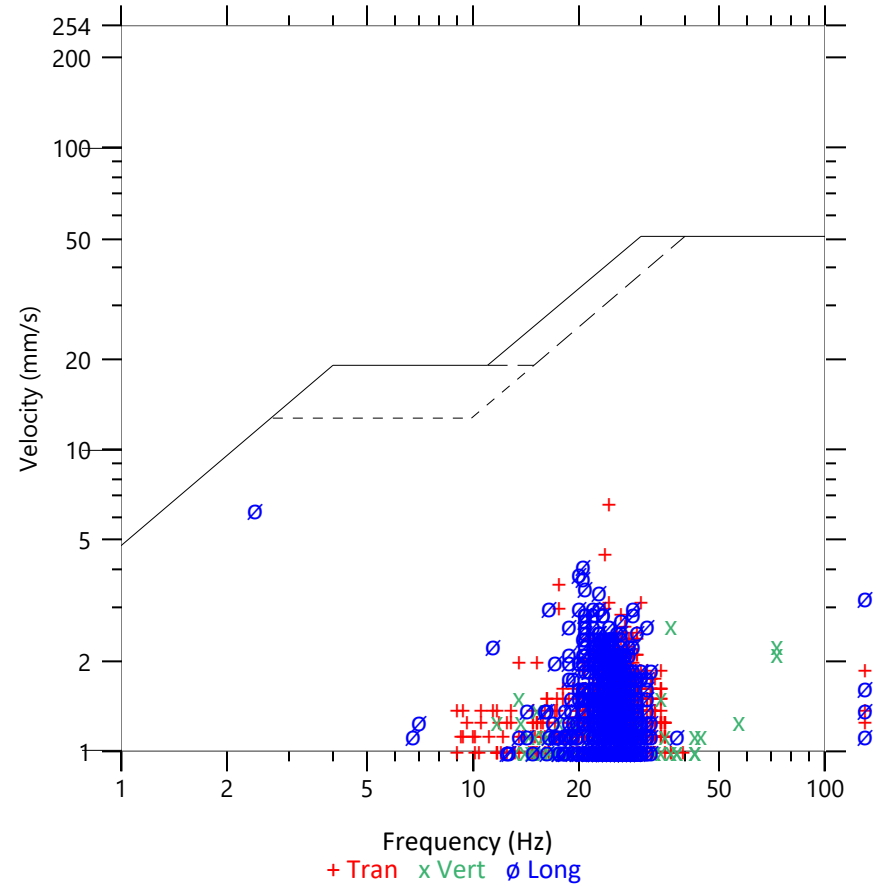
Extended Notes 51.44960 112.68071 51.44961 112.68069
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	6.731 mm/s	2.667 mm/s	6.477 mm/s
Zero Crossing Frequency	24.4 Hz	36.6 Hz	2.4 Hz
Date	May 16, 2023	May 16, 2023	May 16, 2023
Time	07:32:39	07:32:39	07:32:39
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.6	4.2	4.0

Peak Vector Sum 6.870 mm/s at May 16, 2023 07:32:39

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 16, 2023
 Time 06:29:19
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 16, 2023 06:02:39
Finish May 16, 2023 18:56:35
Number of Intervals/Interval 9287.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230516060239.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
willow estate 20 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44960 112.68071 51.44961 112.68069

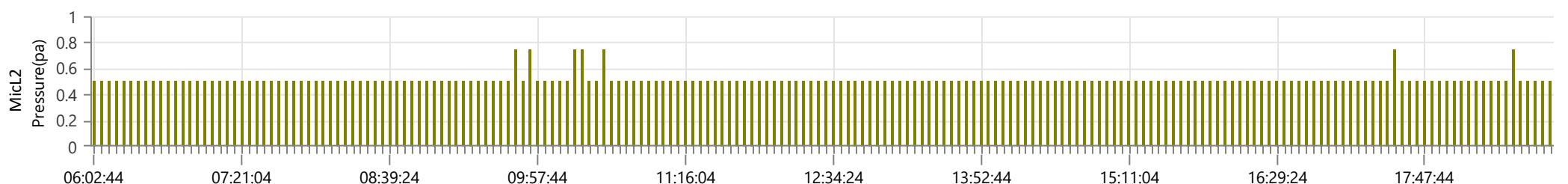
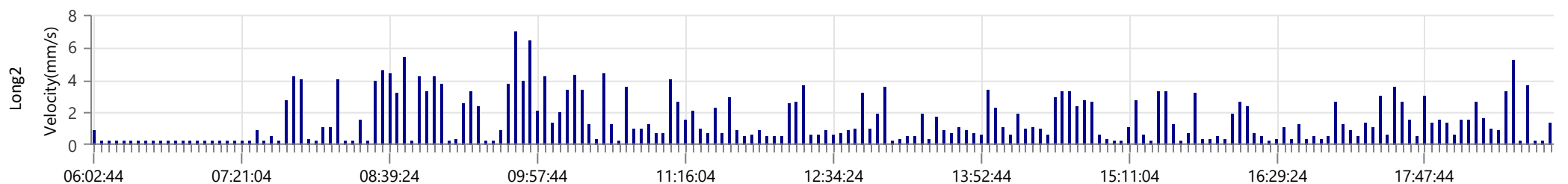
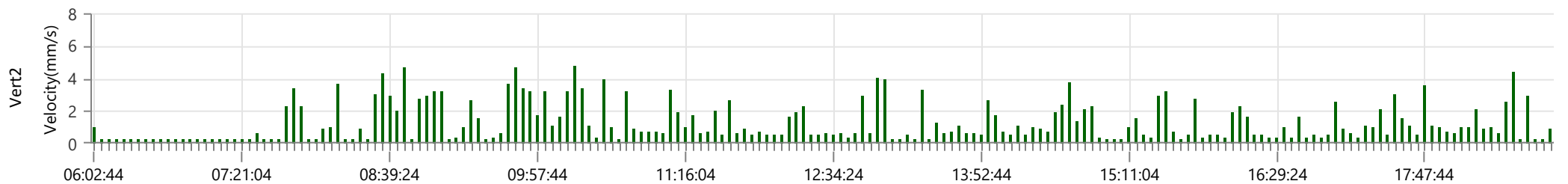
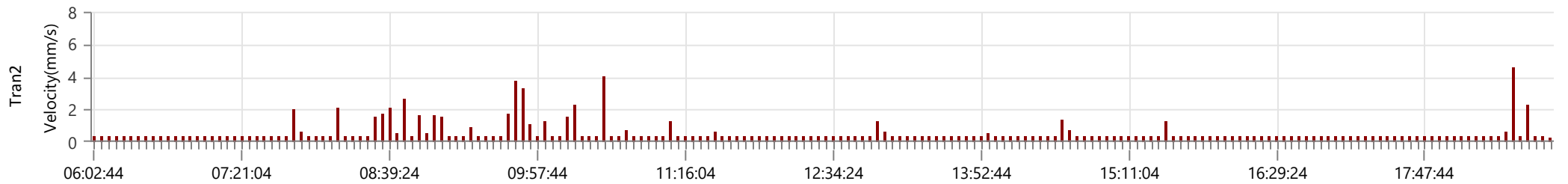
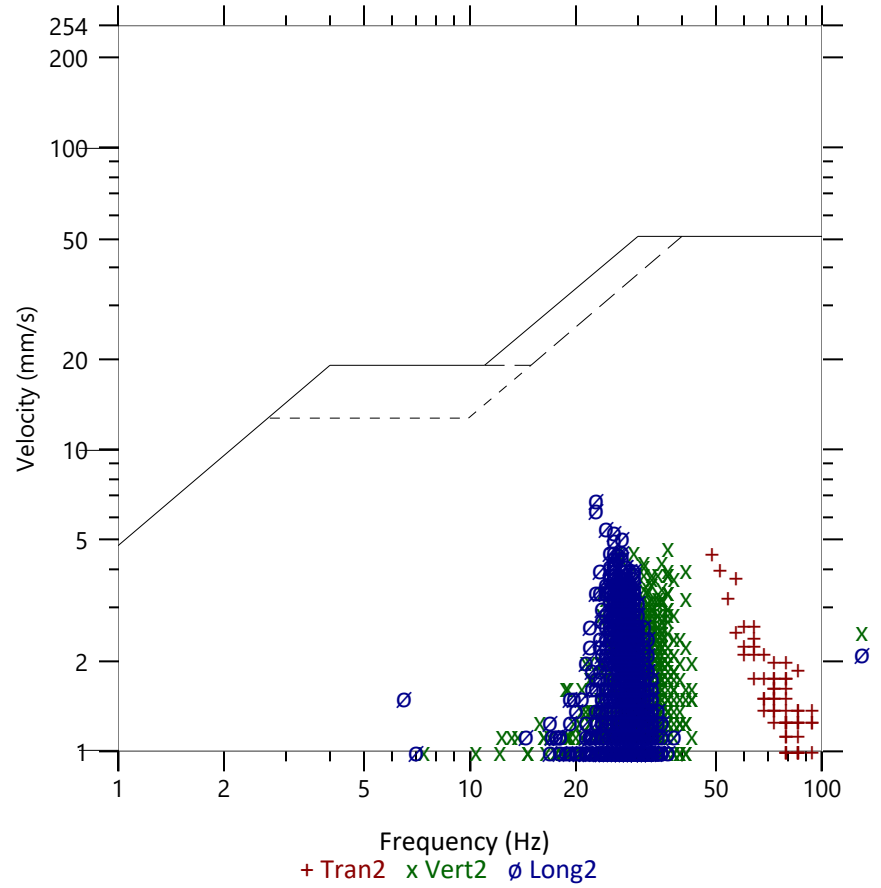
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	4.572 mm/s	4.826 mm/s	6.985 mm/s
Zero Crossing Frequency	48.8 Hz	36.6 Hz	22.8 Hz
Date	May 16, 2023	May 16, 2023	May 16, 2023
Time	18:35:19	10:20:39	09:48:49
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	14.8 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	7.2	3.5	3.5

Peak Vector Sum 7.150 mm/s at May 16, 2023 09:48:49

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date May 16, 2023
Time 09:48:44
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 17, 2023 05:58:01
Finish May 17, 2023 18:33:08
Number of Intervals/Interval 9061.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230517055801.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

Extended Notes 51.45003 112.68099 51.44999 112.68103

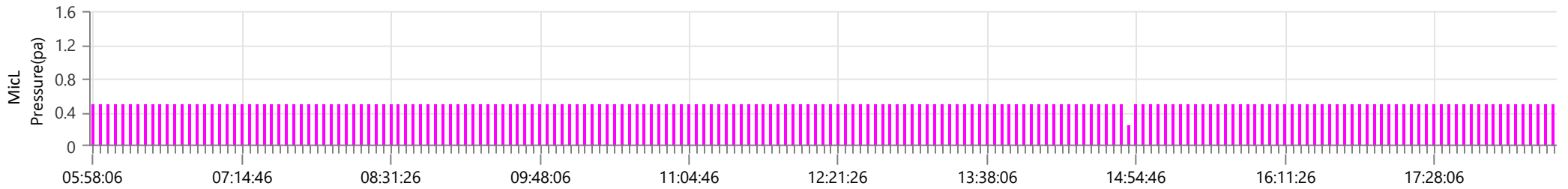
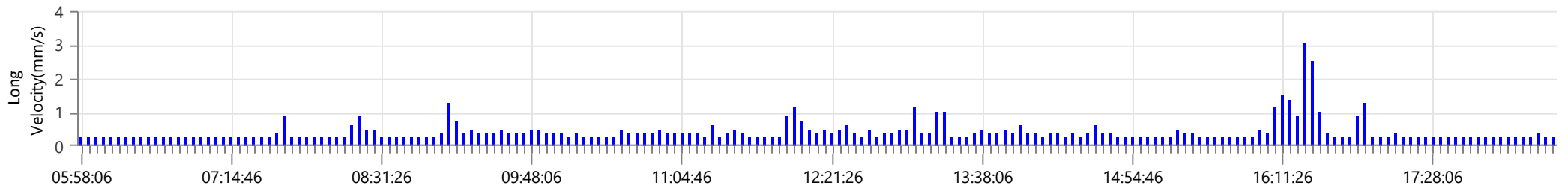
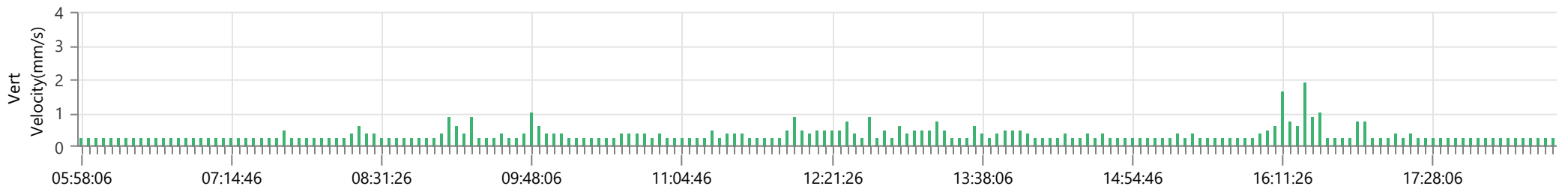
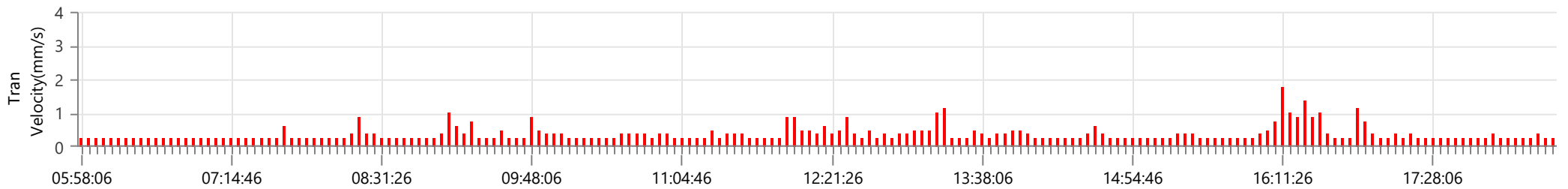
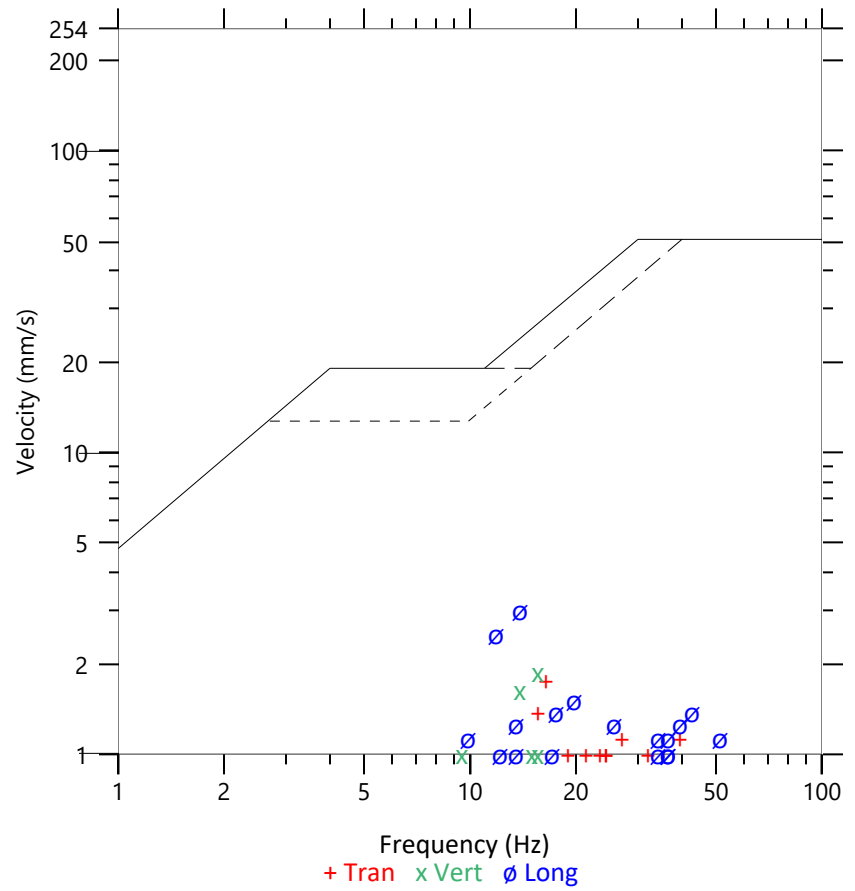
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.778 mm/s	1.905 mm/s	3.048 mm/s
Zero Crossing Frequency	16.5 Hz	15.5 Hz	13.8 Hz
Date	May 17, 2023	May 17, 2023	May 17, 2023
Time	16:15:01	16:25:51	16:25:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.2	3.5	3.6

Peak Vector Sum 3.144 mm/s at May 17, 2023 16:25:51

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 17, 2023
 Time 05:58:21
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 17, 2023 05:58:01
Finish May 17, 2023 18:33:08
Number of Intervals/Interval 9061.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230517055801.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

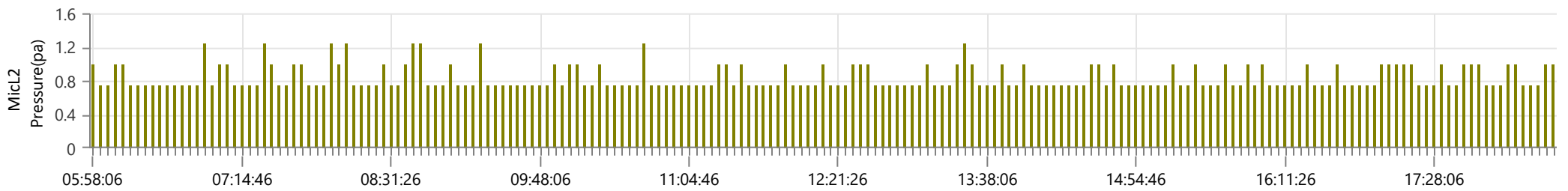
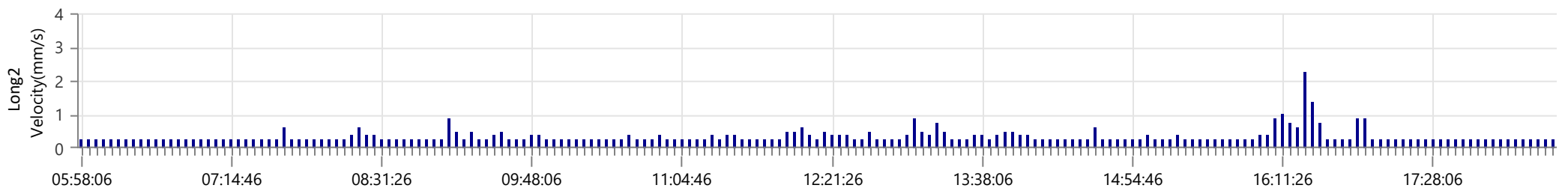
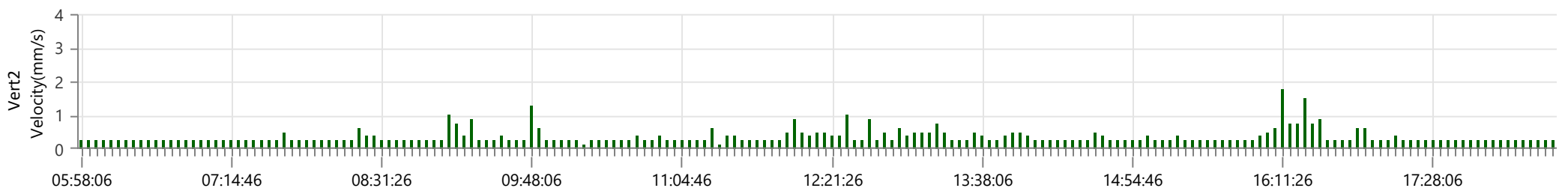
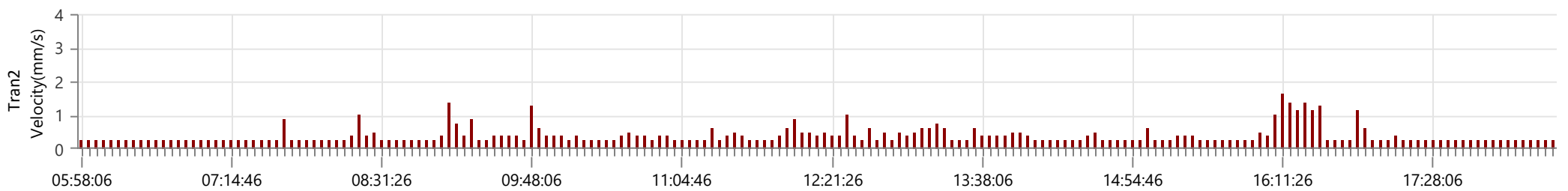
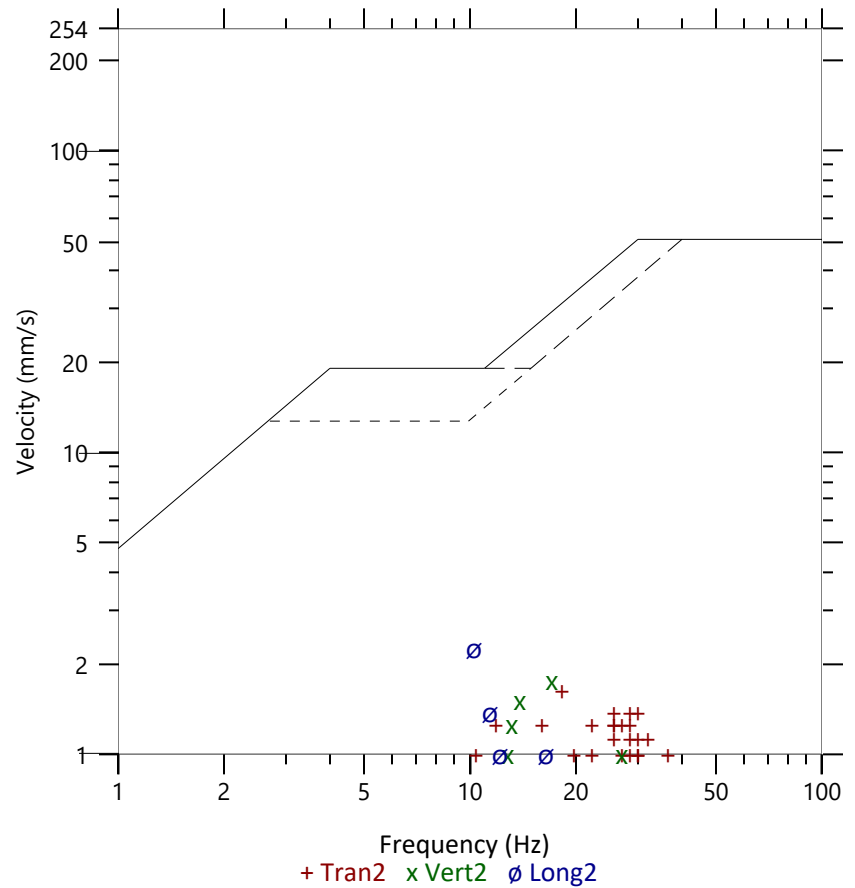
Extended Notes 51.45003 112.68099 51.44999 112.68103

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.651 mm/s	1.778 mm/s	2.286 mm/s
Zero Crossing Frequency	18.3 Hz	17.1 Hz	10.2 Hz
Date	May 17, 2023	May 17, 2023	May 17, 2023
Time	16:15:01	16:15:01	16:25:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.3 Hz	7.8 Hz
Overswing Ratio	3.3	3.2	3.5
Peak Vector Sum	2.355 mm/s at May 17, 2023 16:25:51		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 17, 2023
 Time 06:56:06
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 18, 2023 06:15:23
Finish May 18, 2023 18:55:30
Number of Intervals/Interval 9121.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230518061523.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

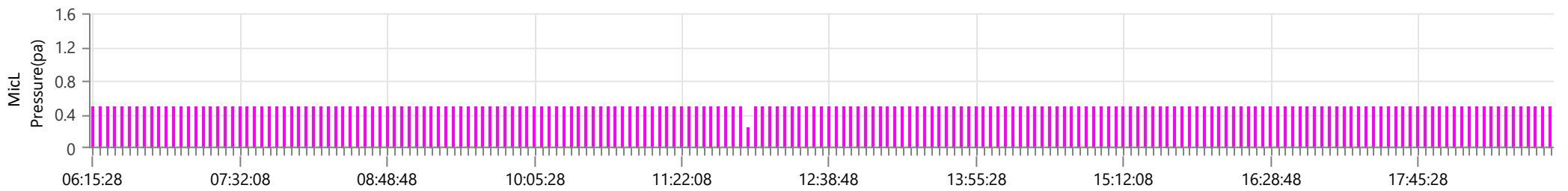
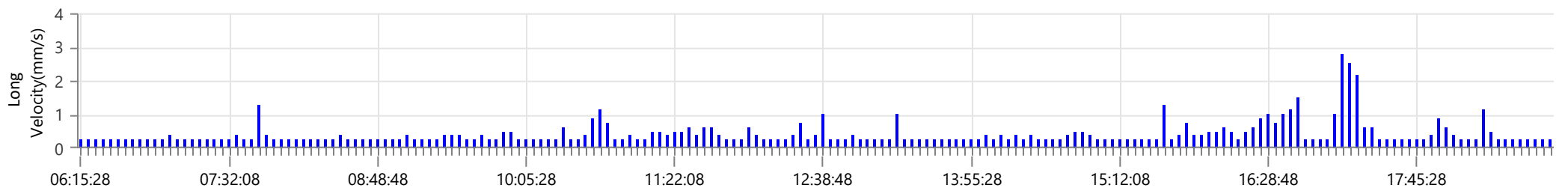
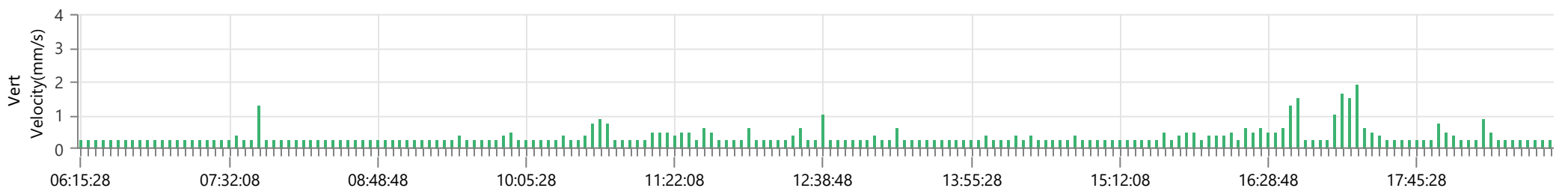
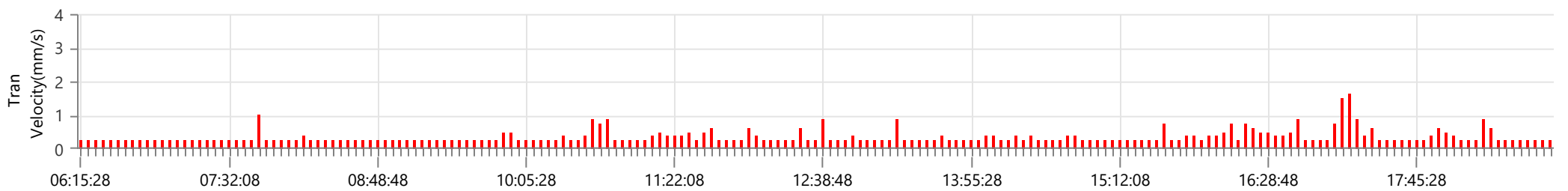
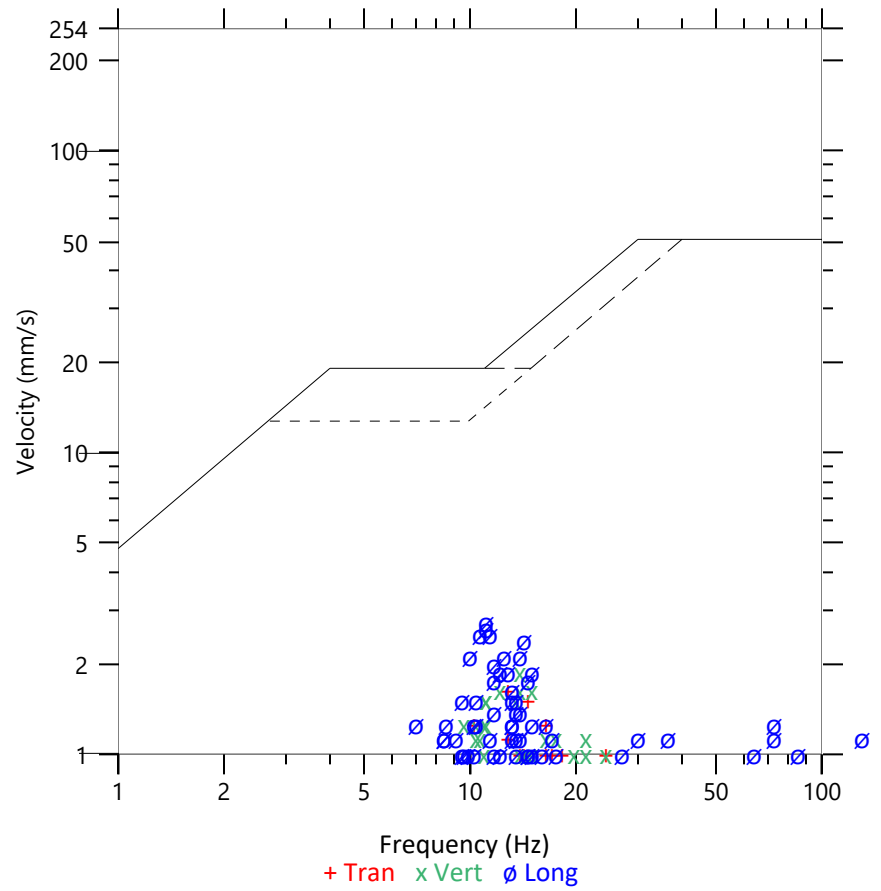
Extended Notes 51.44998 112.68099 51.44998 112.68102

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.651 mm/s	1.905 mm/s	2.794 mm/s
Zero Crossing Frequency	12.8 Hz	13.8 Hz	11.1 Hz
Date	May 18, 2023	May 18, 2023	May 18, 2023
Time	17:14:13	17:15:08	17:10:38
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	8.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.1	3.5	3.5
Peak Vector Sum	3.072 mm/s at May 18, 2023 17:10:38		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 18, 2023
 Time 06:15:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 18, 2023 06:15:23
Finish May 18, 2023 18:55:30
Number of Intervals/Interval 9121.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230518061523.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

Extended Notes 51.44998 112.68099 51.44998 112.68102

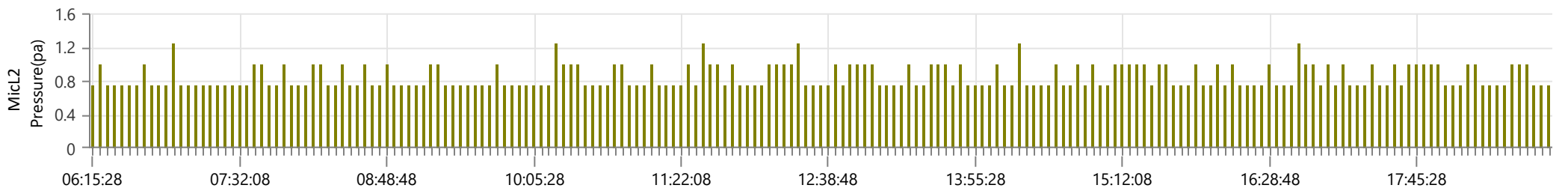
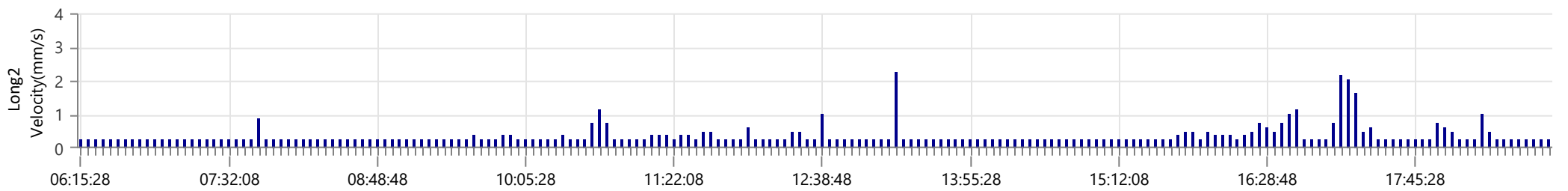
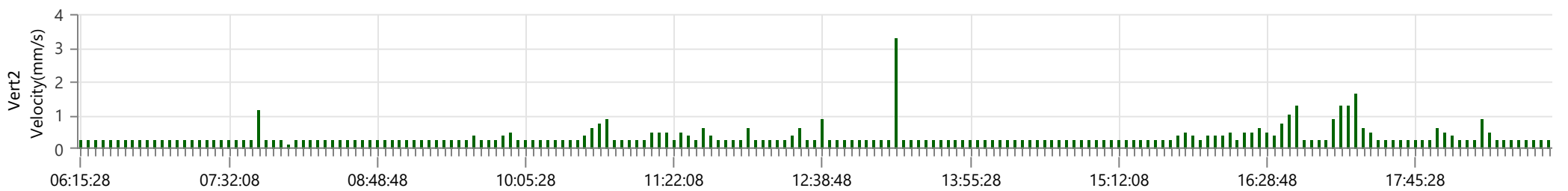
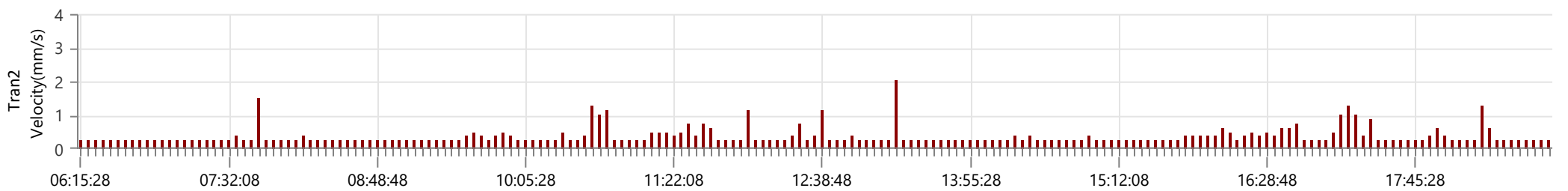
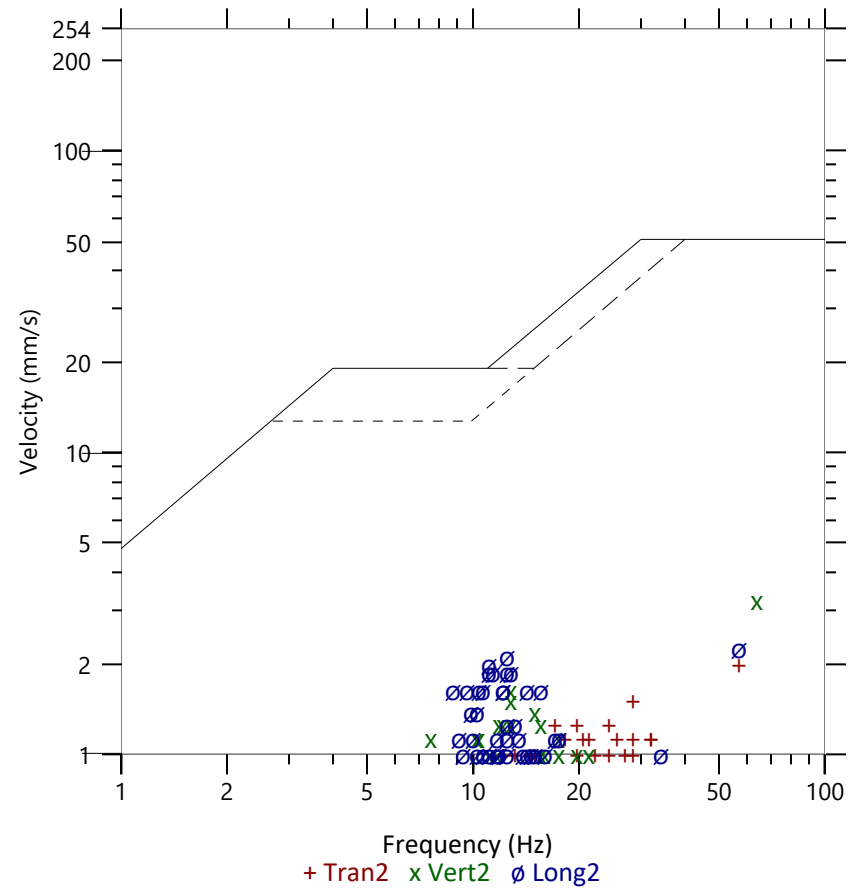
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.032 mm/s	3.302 mm/s	2.286 mm/s
Zero Crossing Frequency	56.9 Hz	64.0 Hz	56.9 Hz
Date	May 18, 2023	May 18, 2023	May 18, 2023
Time	13:19:28	13:19:28	13:19:28
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.8 Hz
Overswing Ratio	3.3	3.2	3.6

Peak Vector Sum 4.018 mm/s at May 18, 2023 13:19:28

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 18, 2023
 Time 07:00:28
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 17, 2023 06:11:44
Finish May 17, 2023 18:27:15
Number of Intervals/Interval 8826.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230517061144.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44877 112.68029 51.44880 112.68031

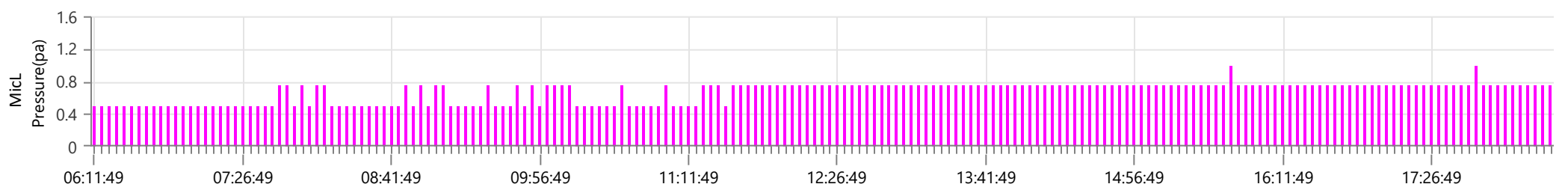
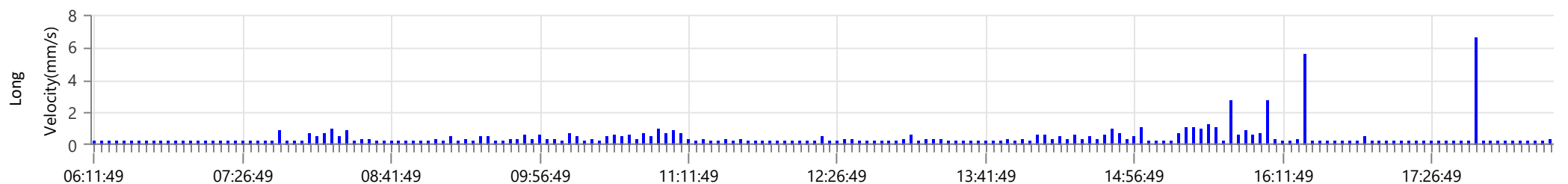
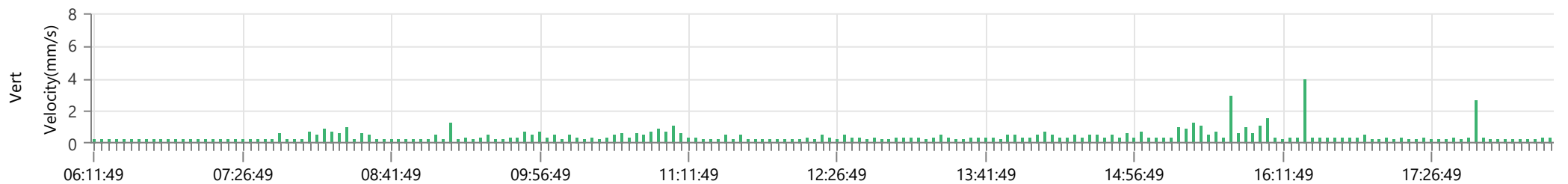
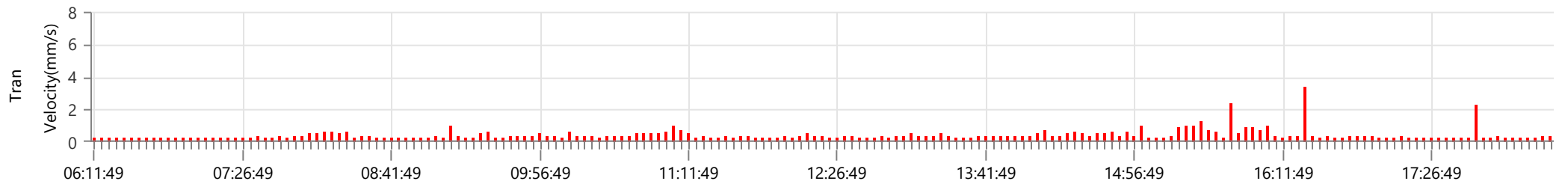
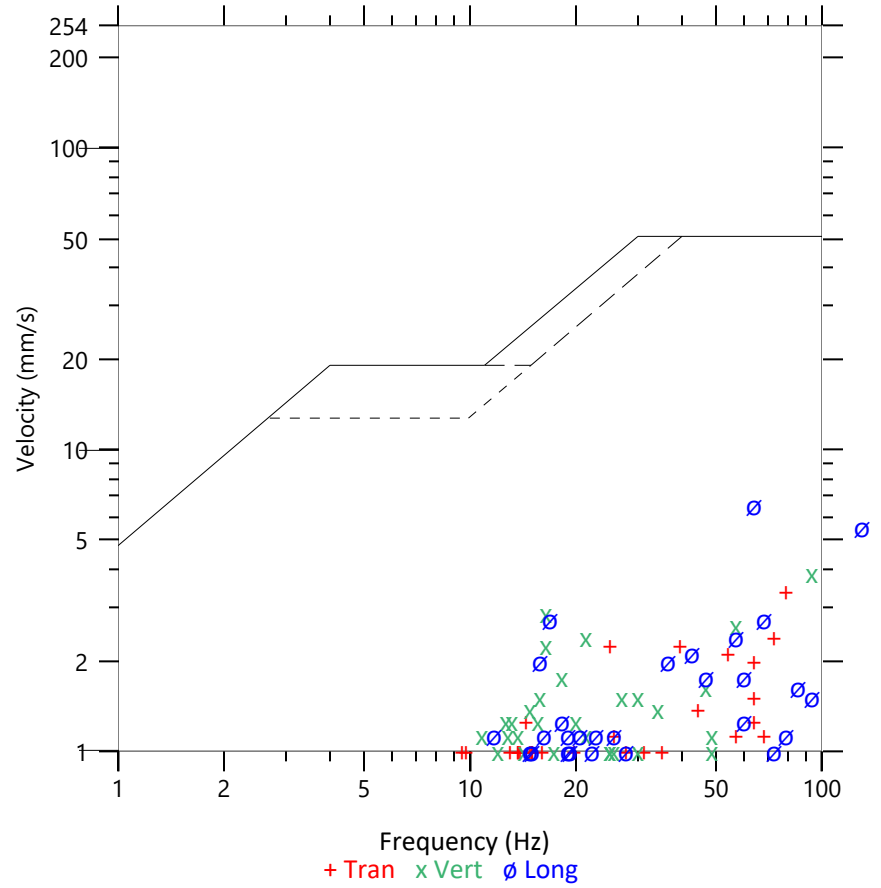
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.429 mm/s	3.937 mm/s	6.604 mm/s
Zero Crossing Frequency	78.8 Hz	93.1 Hz	64.0 Hz
Date	May 17, 2023	May 17, 2023	May 17, 2023
Time	16:24:39	16:24:39	17:52:44
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.7	4.1	3.9

Peak Vector Sum 7.167 mm/s at May 17, 2023 17:52:44

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date May 17, 2023
Time 15:48:29
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 17, 2023 06:11:44
Finish May 17, 2023 18:27:15
Number of Intervals/Interval 8826.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230517061144.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44877 112.68029 51.44880 112.68031

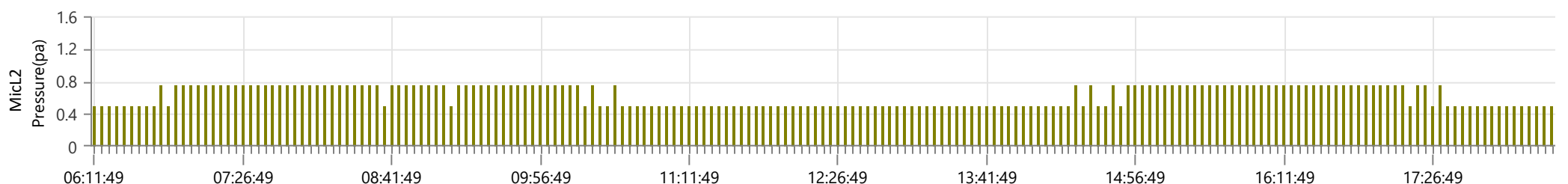
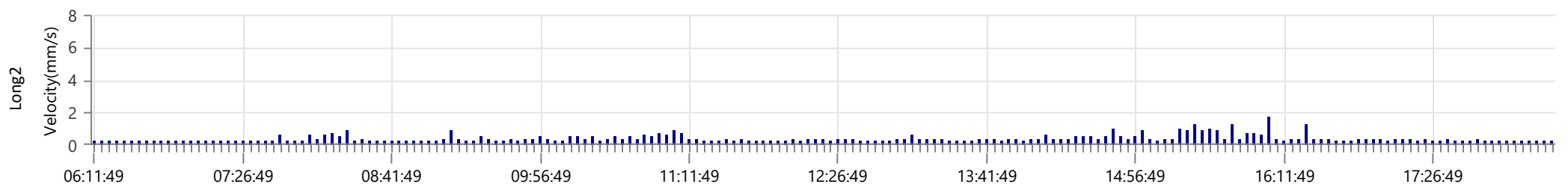
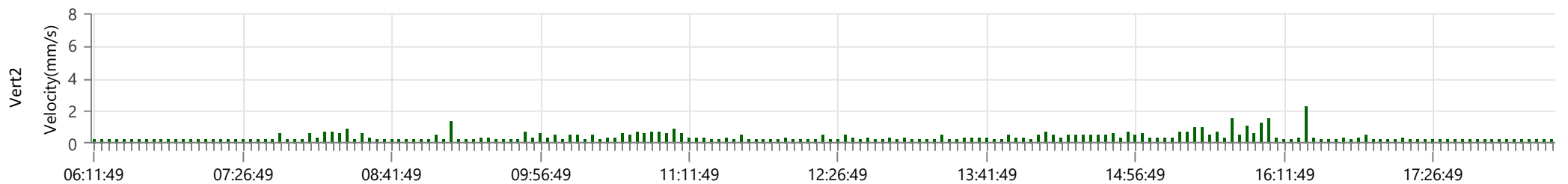
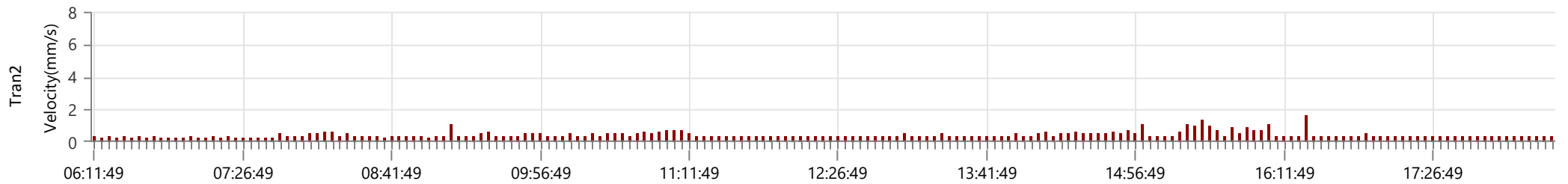
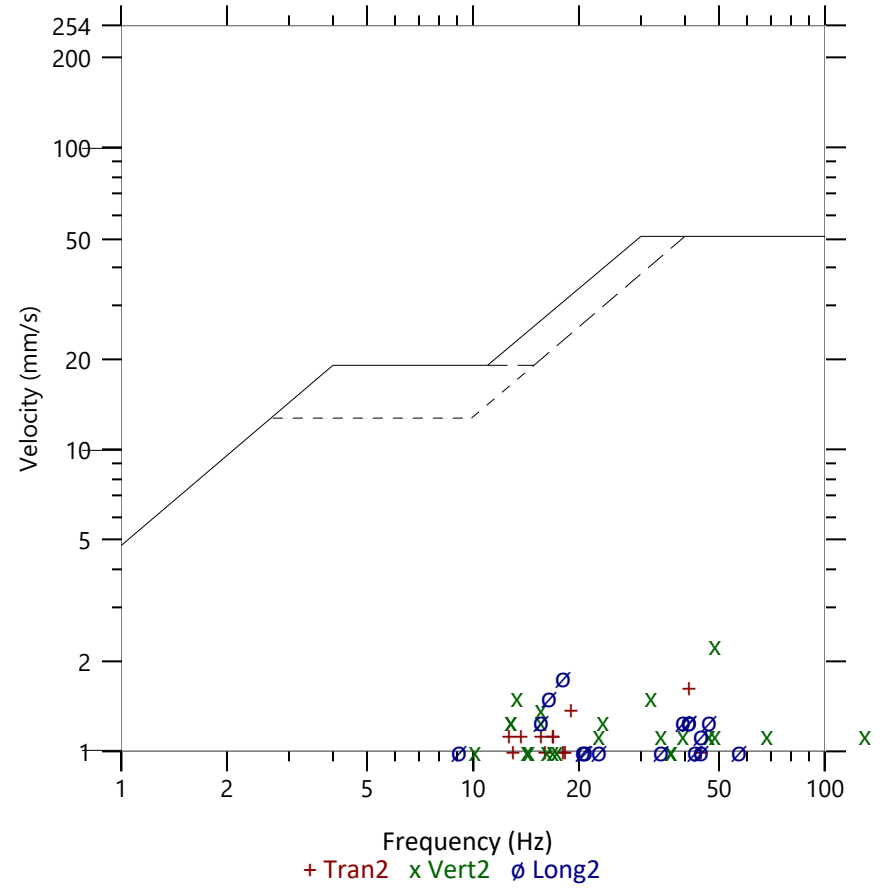
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.651 mm/s	2.286 mm/s	1.778 mm/s
Zero Crossing Frequency	41.0 Hz	48.8 Hz	18.0 Hz
Date	May 17, 2023	May 17, 2023	May 17, 2023
Time	16:24:39	16:24:39	16:04:34
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.4	3.4

Peak Vector Sum 2.806 mm/s at May 17, 2023 16:24:39

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date May 17, 2023
Time 06:46:49
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 18, 2023 06:03:37
Finish May 18, 2023 19:02:05
Number of Intervals/Interval 9341.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230518060337.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44875 112.68035 51.44877 112.68036

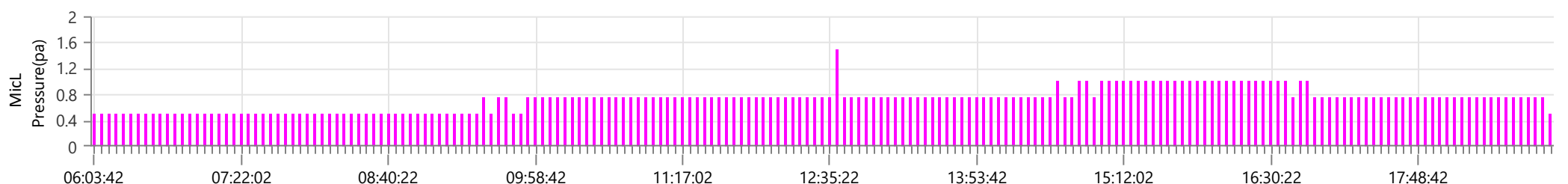
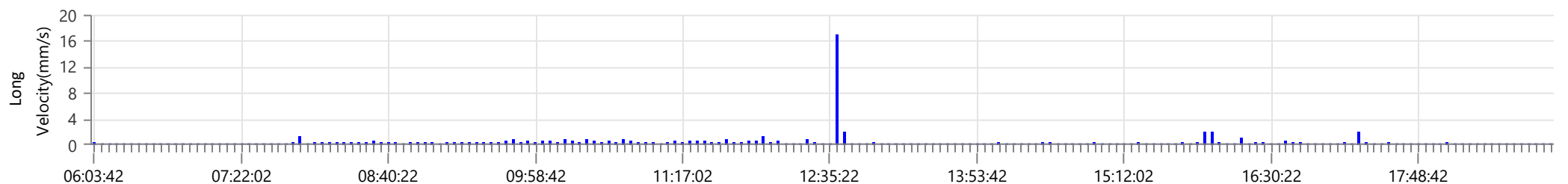
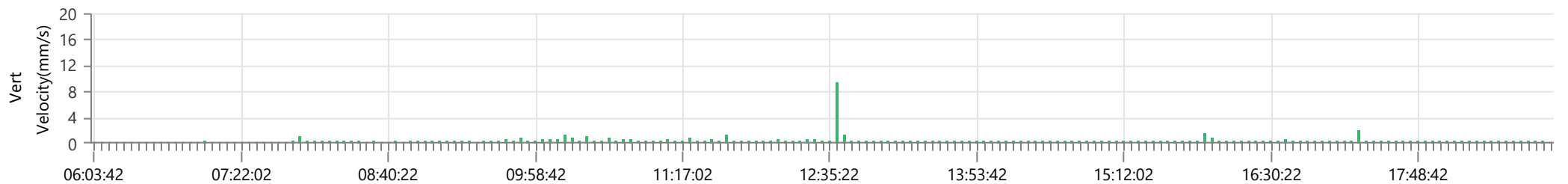
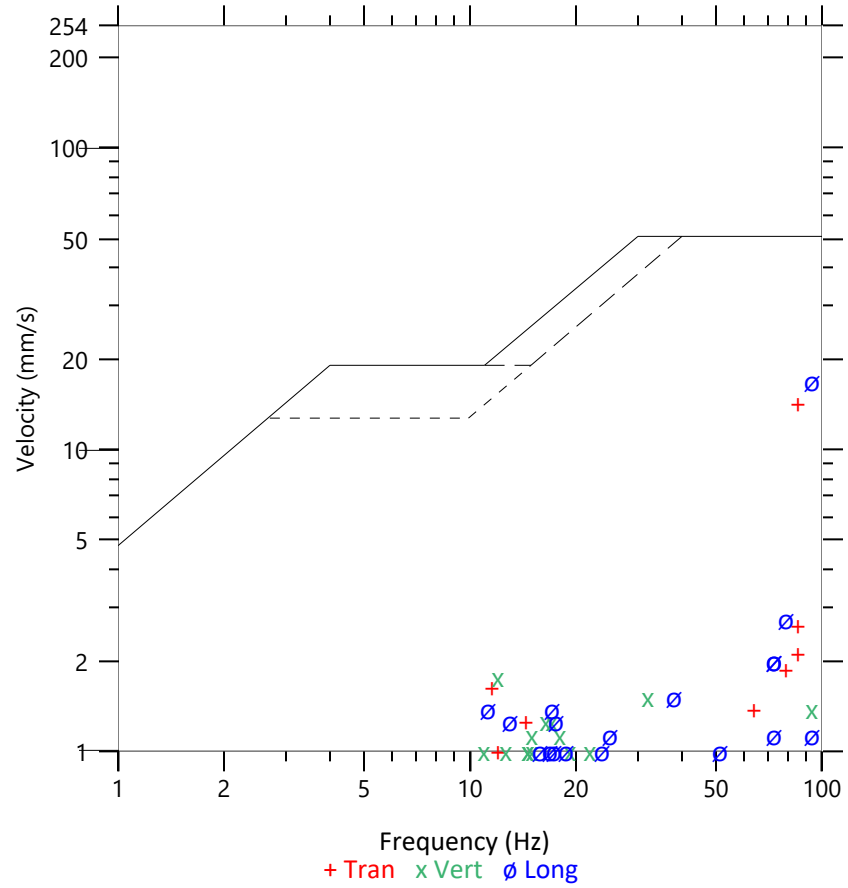
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	14.478 mm/s	9.398 mm/s	17.018 mm/s
Zero Crossing Frequency	85.3 Hz	>100 Hz	93.1 Hz
Date	May 18, 2023	May 18, 2023	May 18, 2023
Time	12:42:02	12:42:02	12:42:02
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.6	4.1	4.0

Peak Vector Sum 22.095 mm/s at May 18, 2023 12:42:02

ISEE Linear Microphone
 Peak Sound Pressure Level 1.50 pa
 Date May 18, 2023
 Time 12:42:02
 Zero Crossing Frequency 93.1 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 18, 2023 06:03:37
Finish May 18, 2023 19:02:05
Number of Intervals/Interval 9341.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230518060337.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

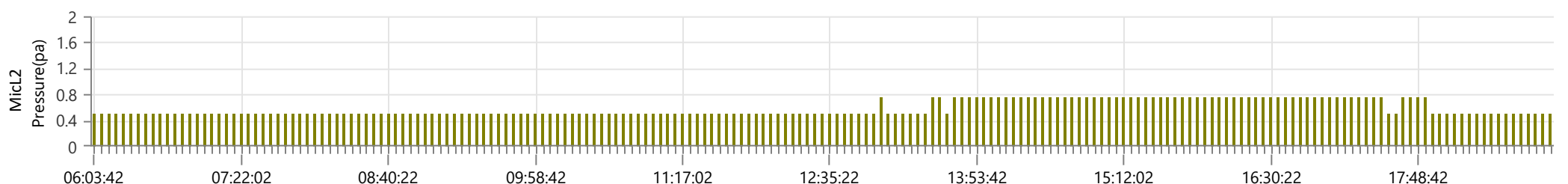
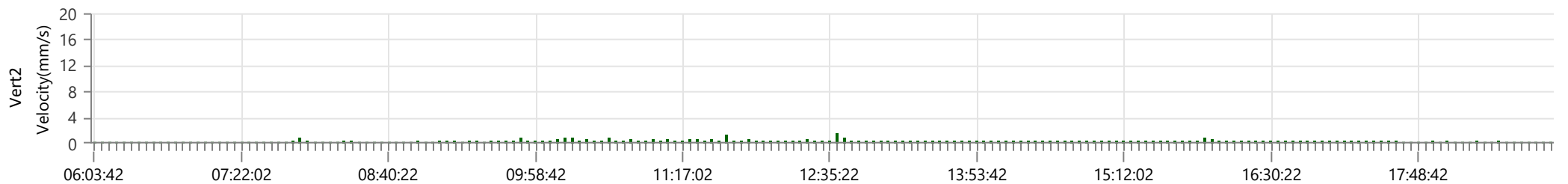
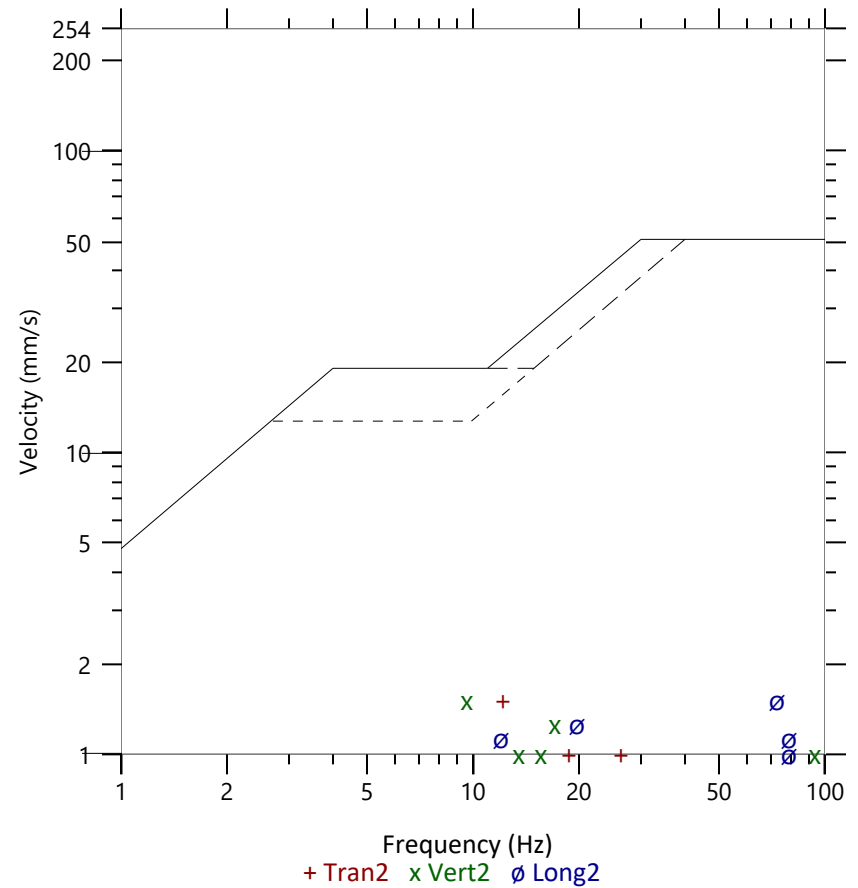
Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44875 112.68035 51.44877 112.68036
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.524 mm/s	1.524 mm/s
Zero Crossing Frequency	12.2 Hz	9.6 Hz	73.1 Hz
Date	May 18, 2023	May 18, 2023	May 18, 2023
Time	07:54:02	12:39:57	12:42:02
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	8.1 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.4	3.4
Peak Vector Sum	1.704 mm/s at May 18, 2023 12:42:02		

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date May 18, 2023
Time 13:03:32
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 19, 2023 06:45:26
Finish May 19, 2023 17:10:33
Number of Intervals/Interval 7501.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230519064526.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44876 112.68028 51.44877 112.68030

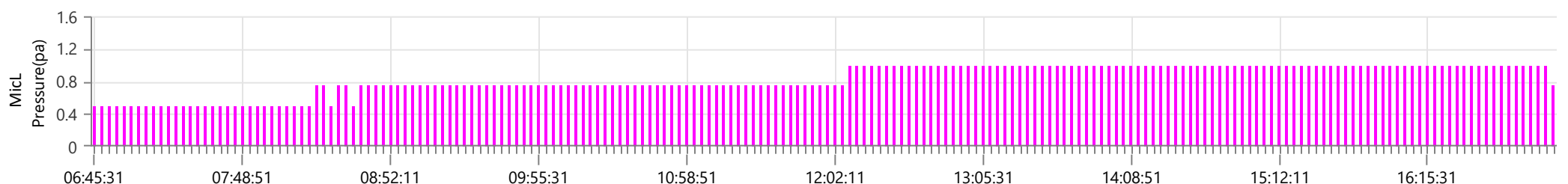
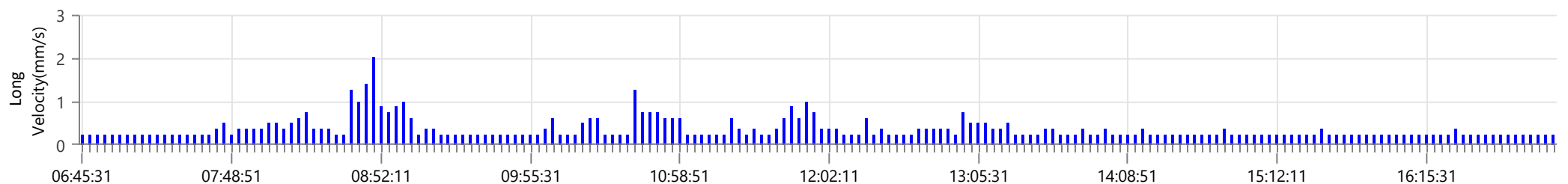
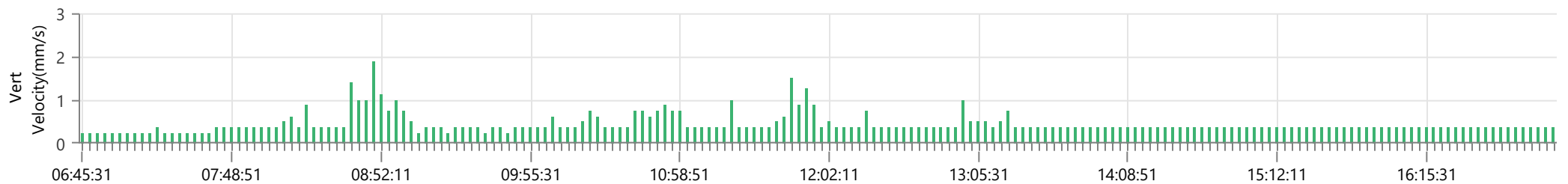
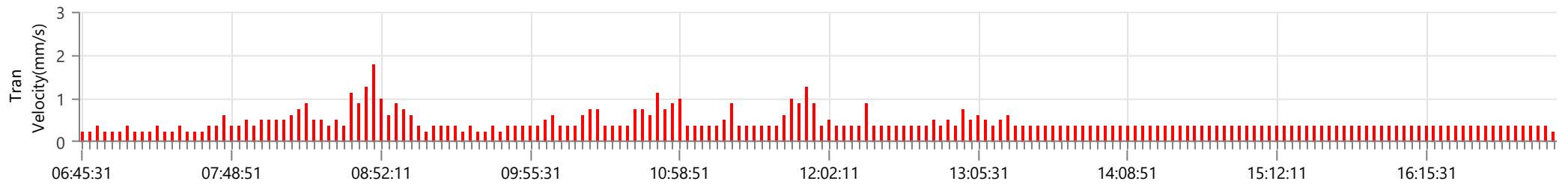
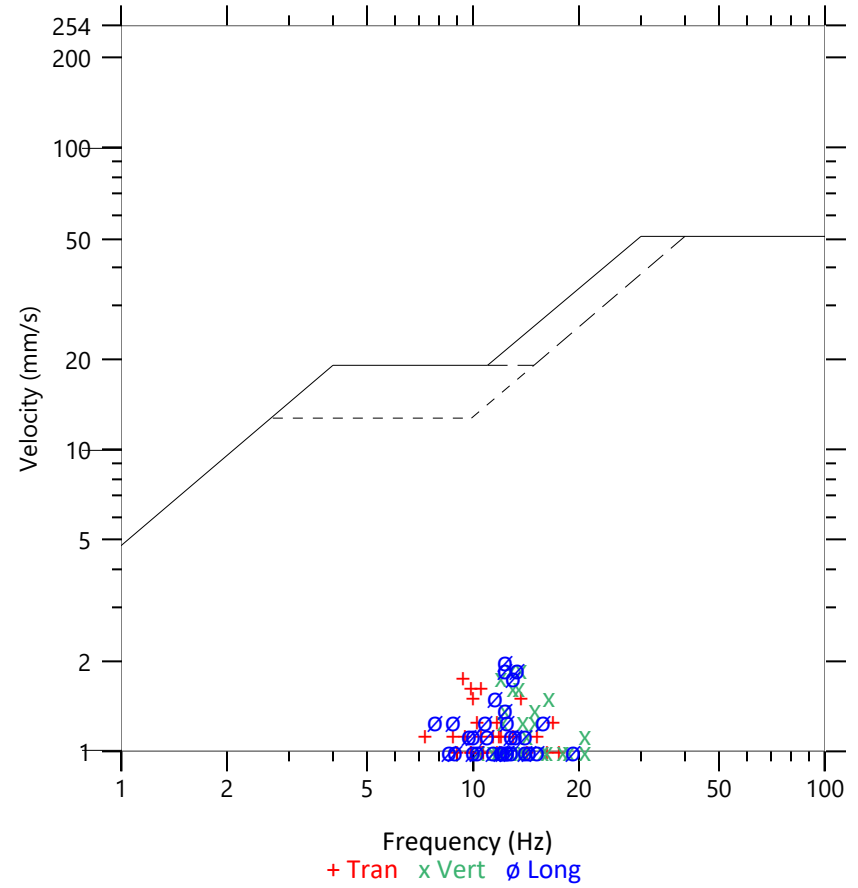
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.778 mm/s	1.905 mm/s	2.032 mm/s
Zero Crossing Frequency	9.3 Hz	12.8 Hz	12.3 Hz
Date	May 19, 2023	May 19, 2023	May 19, 2023
Time	08:50:56	08:49:41	08:50:46
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.5	4.0	3.8

Peak Vector Sum 2.290 mm/s at May 19, 2023 08:50:41

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 19, 2023
 Time 12:10:56
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 19, 2023 06:45:26
Finish May 19, 2023 17:10:33
Number of Intervals/Interval 7501.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230519064526.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: EM
rear of house facing berm

Extended Notes 51.44876 112.68028 51.44877 112.68030

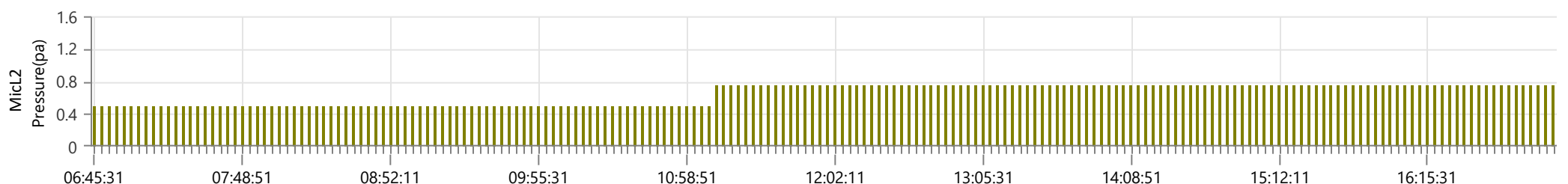
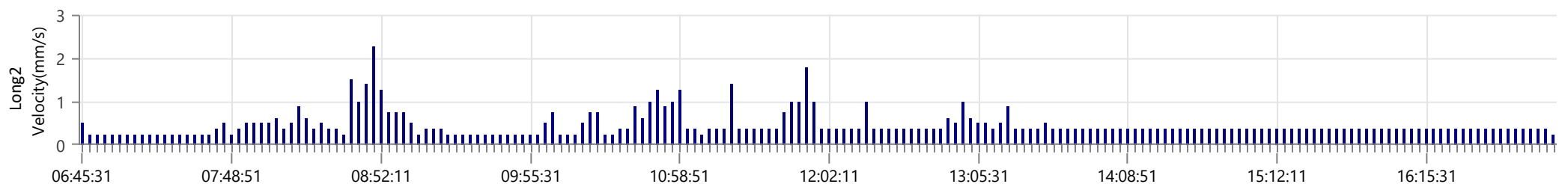
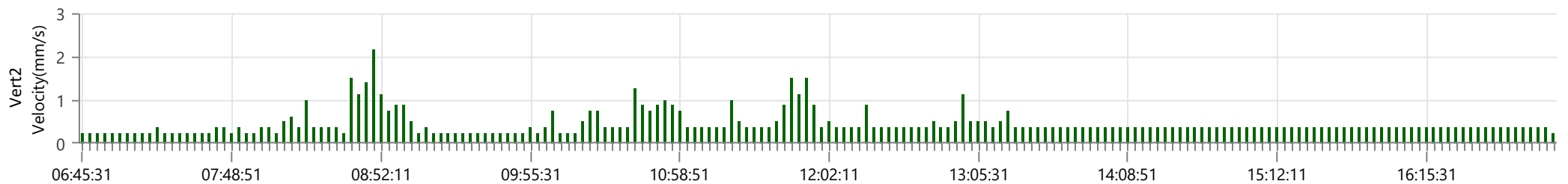
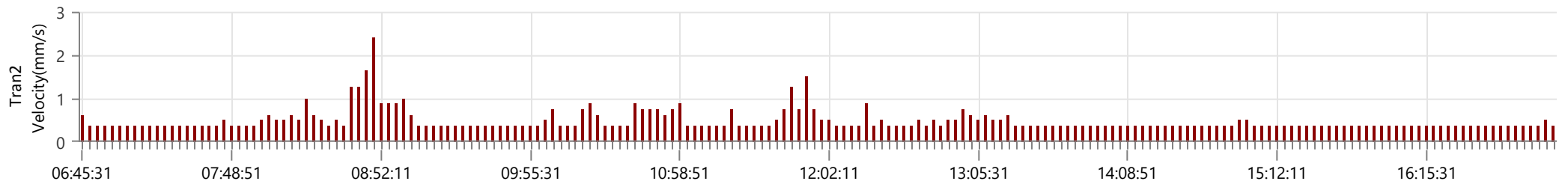
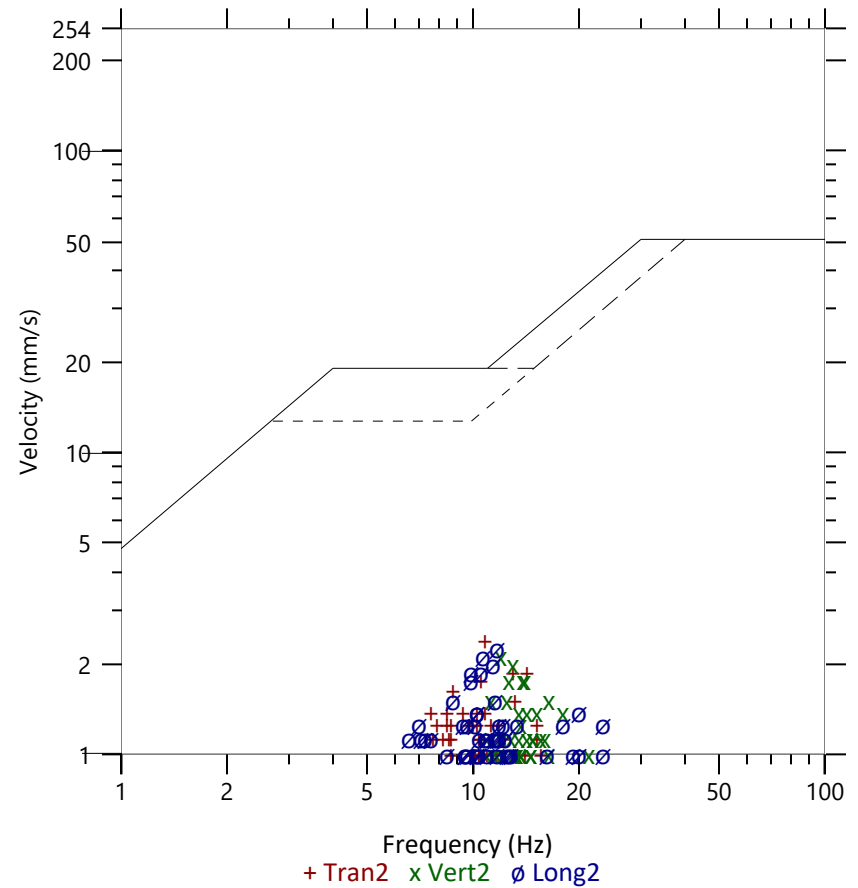
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.413 mm/s	2.159 mm/s	2.286 mm/s
Zero Crossing Frequency	10.8 Hz	12.0 Hz	11.6 Hz
Date	May 19, 2023	May 19, 2023	May 19, 2023
Time	08:50:56	08:50:56	08:50:41
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.3	3.3	3.3

Peak Vector Sum 2.655 mm/s at May 19, 2023 08:50:41

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 19, 2023
 Time 11:13:56
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 19, 2023 06:57:04
Finish May 19, 2023 17:22:07
Number of Intervals/Interval 7500.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230519065704.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

Extended Notes 51.44998 112.68097 51.44998 112.68100

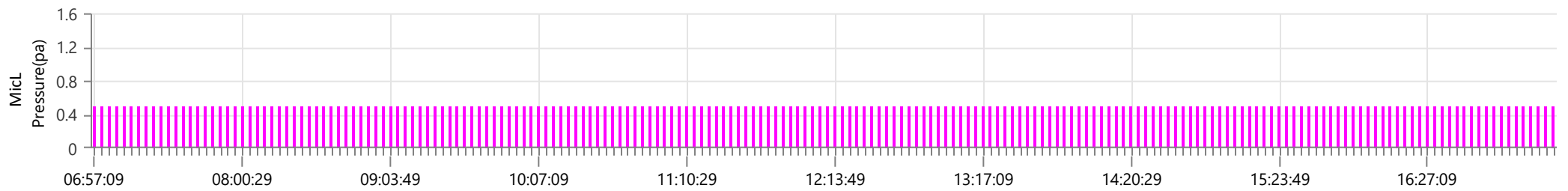
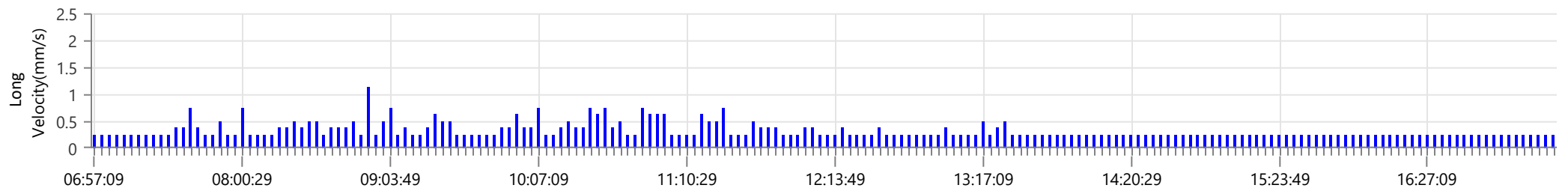
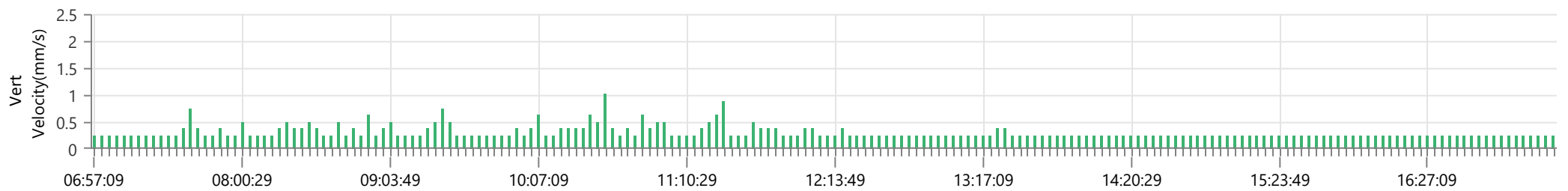
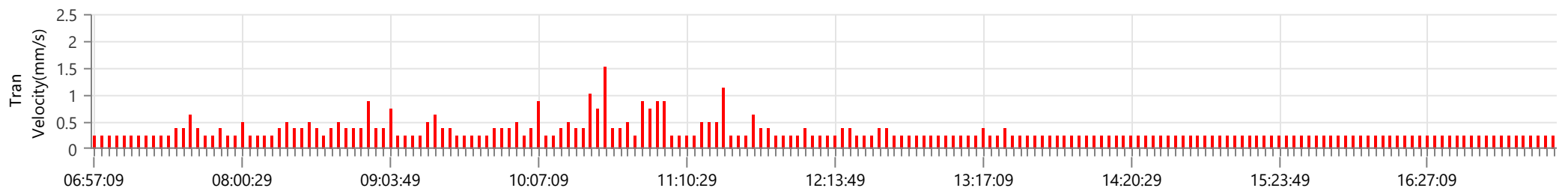
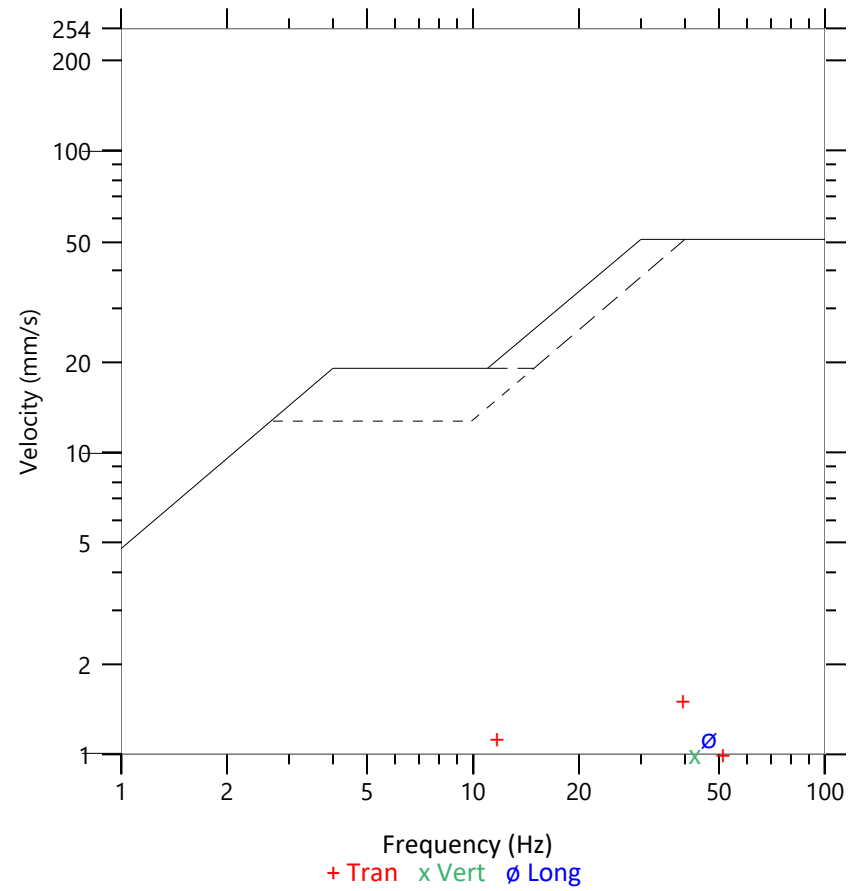
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.524 mm/s	1.016 mm/s	1.143 mm/s
Zero Crossing Frequency	39.4 Hz	42.7 Hz	46.5 Hz
Date	May 19, 2023	May 19, 2023	May 19, 2023
Time	10:38:04	10:38:04	08:55:54
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.2	3.4	3.5

Peak Vector Sum 1.611 mm/s at May 19, 2023 10:38:04

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date May 19, 2023
 Time 06:57:14
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 19, 2023 06:57:04
Finish May 19, 2023 17:22:07
Number of Intervals/Interval 7500.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230519065704.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: EM
General: side of house facing dike

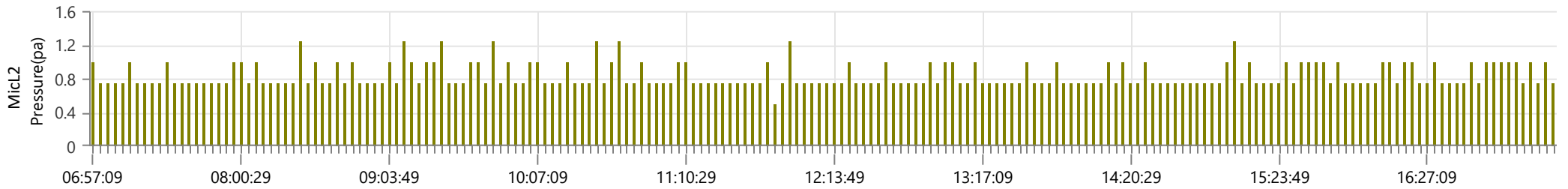
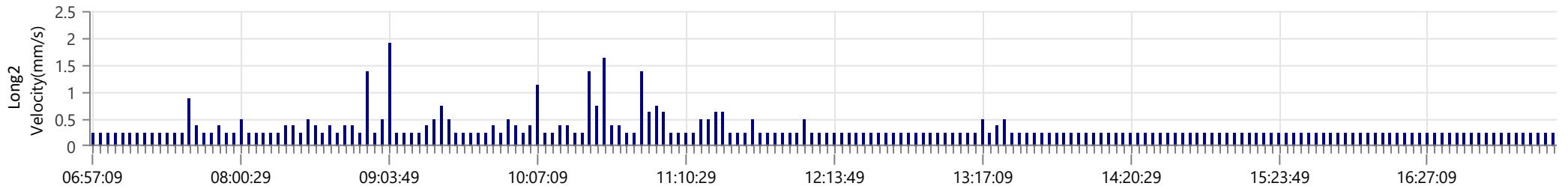
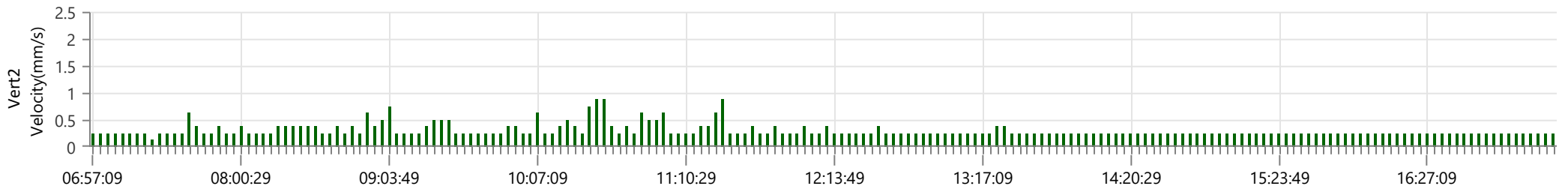
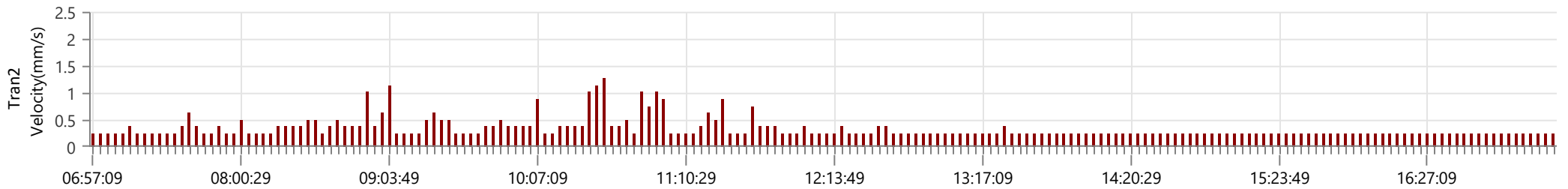
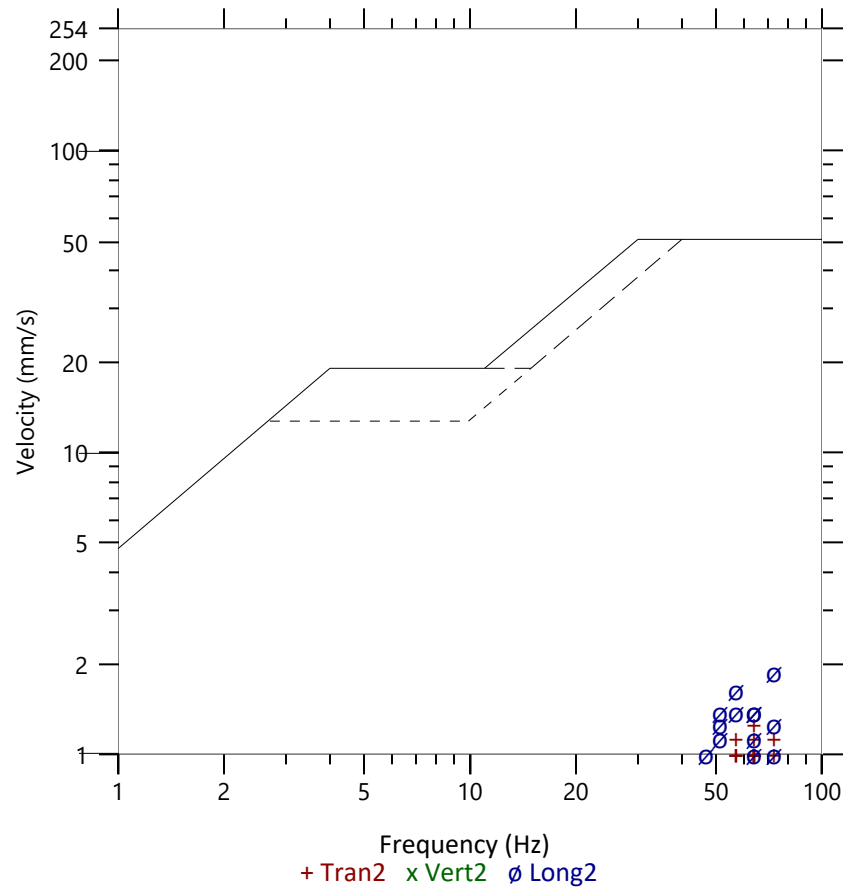
Extended Notes 51.44998 112.68097 51.44998 112.68100

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	0.889 mm/s	1.905 mm/s
Zero Crossing Frequency	64.0 Hz	64.0 Hz	73.1 Hz
Date	May 19, 2023	May 19, 2023	May 19, 2023
Time	10:38:04	10:33:04	09:05:19
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	8.5 Hz	7.9 Hz
Overswing Ratio	3.2	3.1	3.4
Peak Vector Sum	2.250 mm/s at May 19, 2023 09:05:19		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 19, 2023
 Time 08:26:09
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 23, 2023 05:00:47
Finish May 23, 2023 19:11:06
Number of Intervals/Interval 10203.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230523050047.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

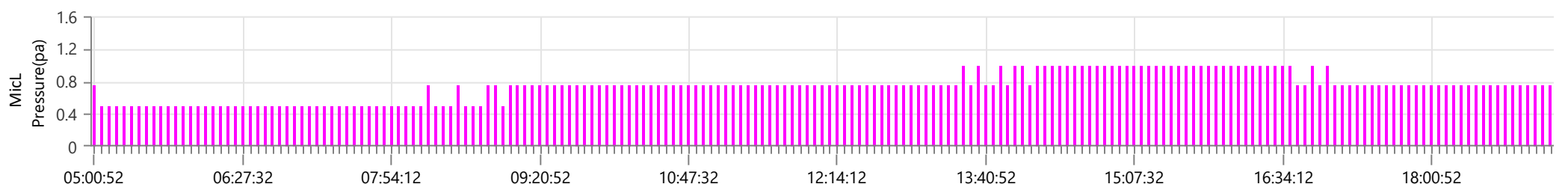
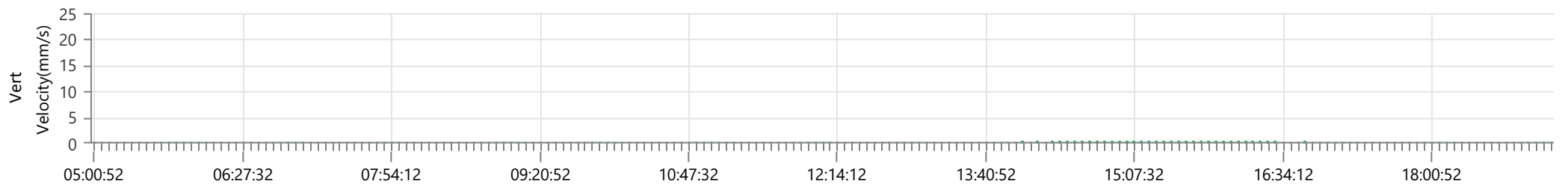
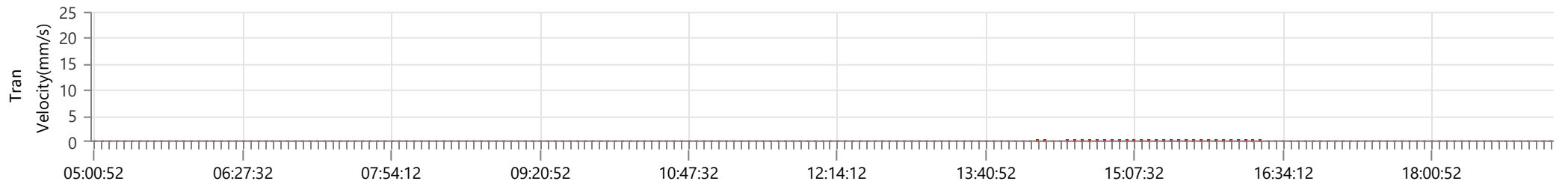
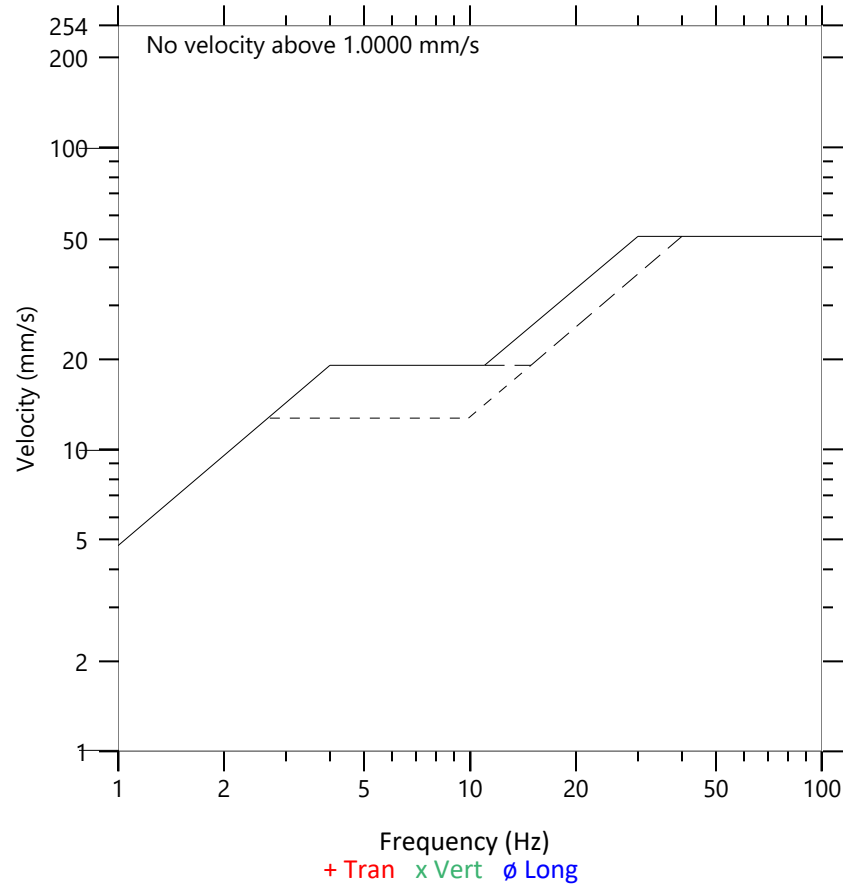
Notes
willow estate 30 willow point
WSP
User Name: dl
rear of house facing berm

Extended Notes 51.44876 112.68028 51.44877 112.68030
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.508 mm/s	0.508 mm/s	0.381 mm/s
Zero Crossing Frequency	>100 Hz	>100 Hz	>100 Hz
Date	May 23, 2023	May 23, 2023	May 23, 2023
Time	14:12:17	14:05:17	11:53:47
Sensor Check	<input checked="" type="checkbox"/> Check	<input checked="" type="checkbox"/> Check	<input checked="" type="checkbox"/> Check
Frequency	1024.0 Hz	1024.0 Hz	1024.0 Hz
Overswing Ratio	0.0	0.0	0.0
Peak Vector Sum	0.582 mm/s at May 23, 2023 14:38:57		

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date May 23, 2023
Time 13:30:07
Zero Crossing Frequency >100 Hz
Sensor Check Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 23, 2023 05:00:47
Finish May 23, 2023 19:11:06
Number of Intervals/Interval 10203.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230523050047.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: dl
rear of house facing berm

Extended Notes 51.44876 112.68028 51.44877 112.68030

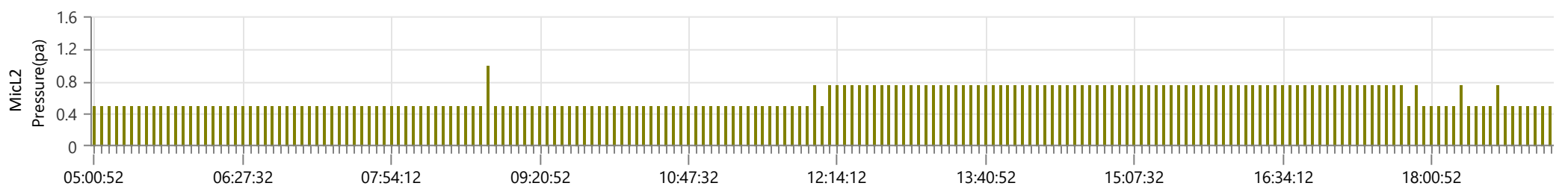
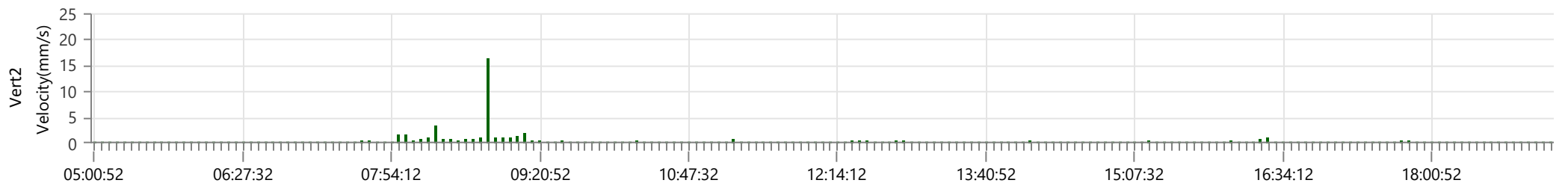
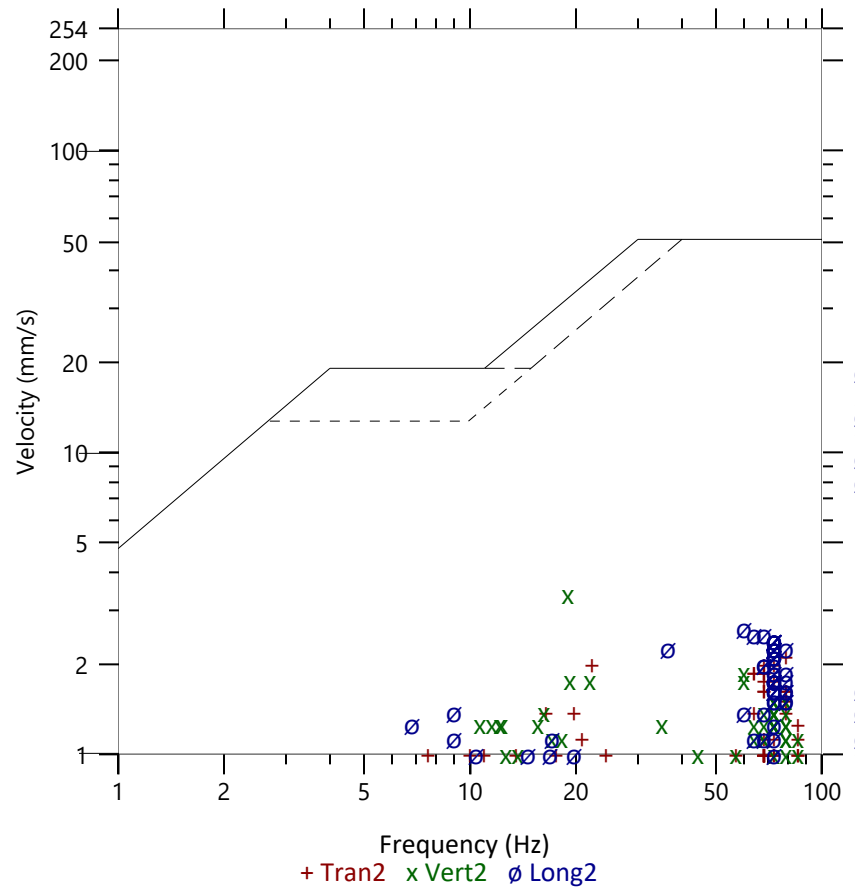
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	14.605 mm/s	16.256 mm/s	18.796 mm/s
Zero Crossing Frequency	>100 Hz	>100 Hz	>100 Hz
Date	May 23, 2023	May 23, 2023	May 23, 2023
Time	08:53:07	08:53:07	08:53:07
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	9.9 Hz	7.8 Hz	7.9 Hz
Overswing Ratio	4.5	3.4	3.4

Peak Vector Sum 21.769 mm/s at May 23, 2023 08:53:07

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date May 23, 2023
Time 08:53:07
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 23, 2023 05:19:11
Finish May 23, 2023 19:19:19
Number of Intervals/Interval 10081.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by InstanTel
Event File Name BA19603_20230523051911.IDFH
Scaled Distance 34.8 (11.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

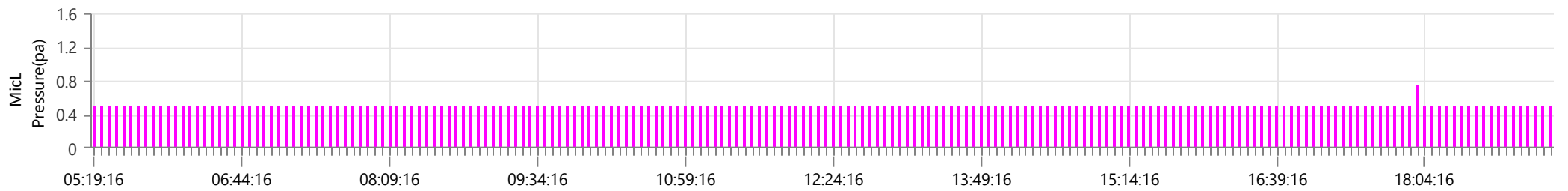
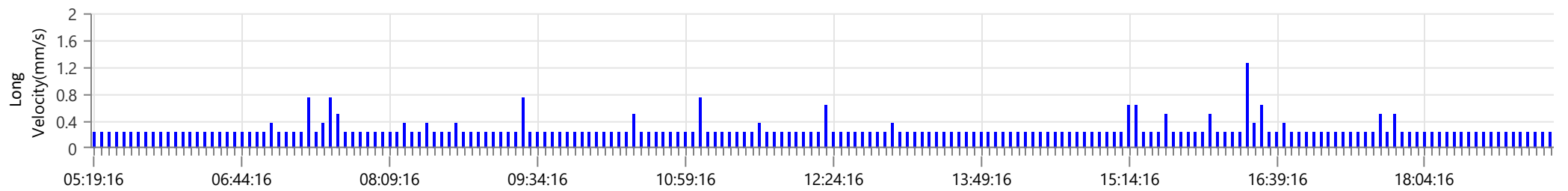
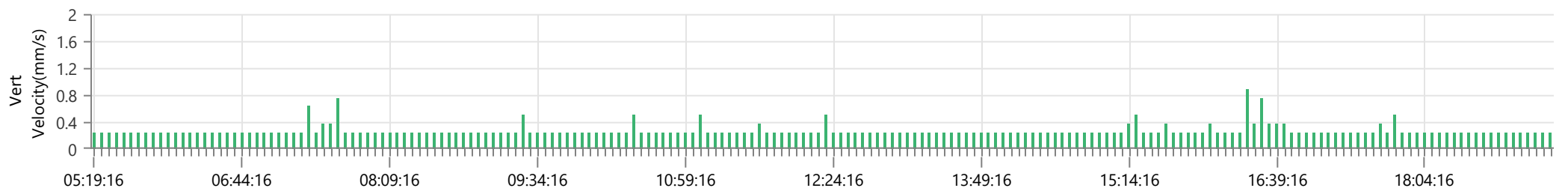
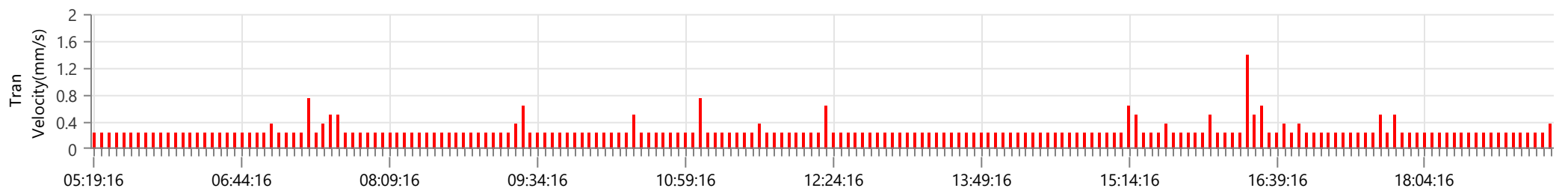
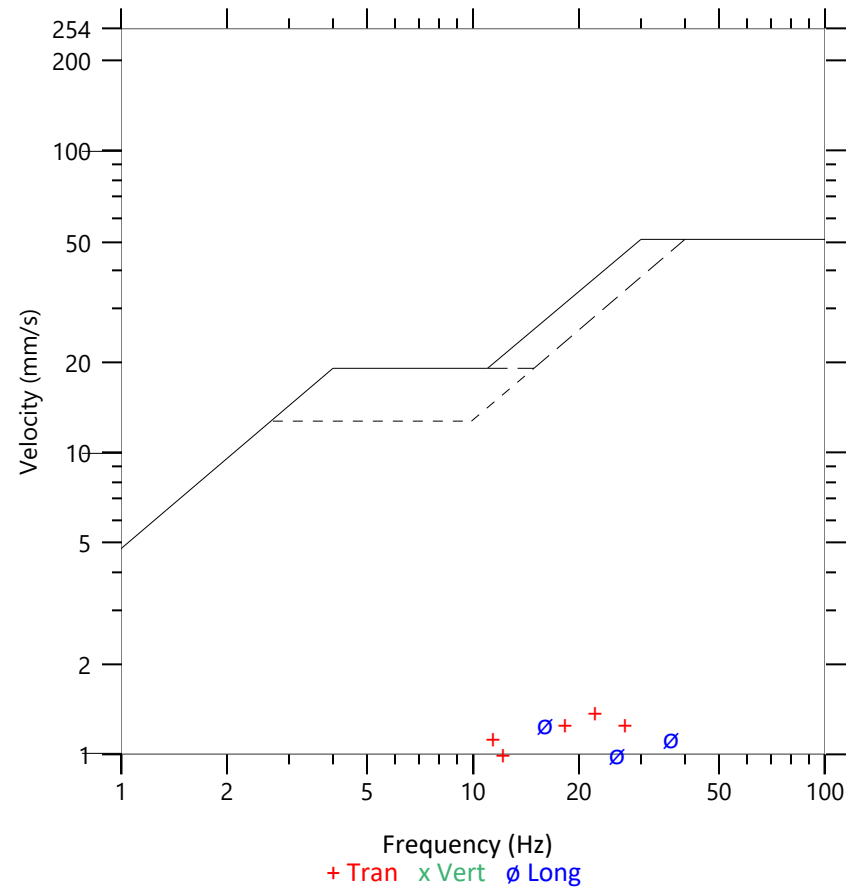
Extended Notes 51.44998 112.68097 51.44998 112.68100

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.397 mm/s	0.889 mm/s	1.270 mm/s
Zero Crossing Frequency	22.3 Hz	13.8 Hz	16.0 Hz
Date	May 23, 2023	May 23, 2023	May 23, 2023
Time	16:26:01	16:26:16	16:26:11
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	3.3	3.5	3.5
Peak Vector Sum	1.727 mm/s at May 23, 2023 16:26:11		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 23, 2023
 Time 18:03:21
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 23, 2023 05:19:11
Finish May 23, 2023 19:19:19
Number of Intervals/Interval 10081.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230523051911.IDFH
Scaled Distance 34.8 (11.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

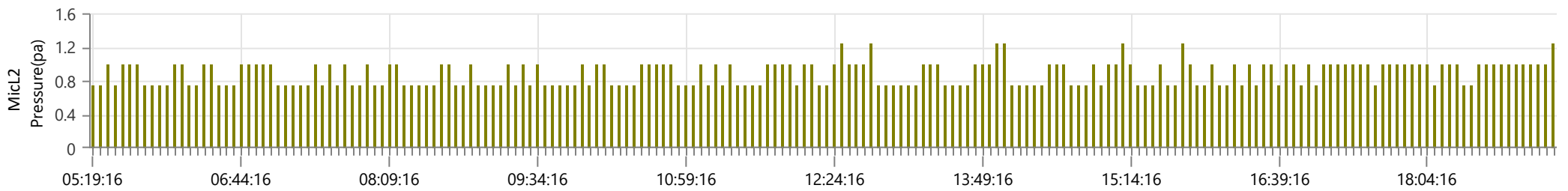
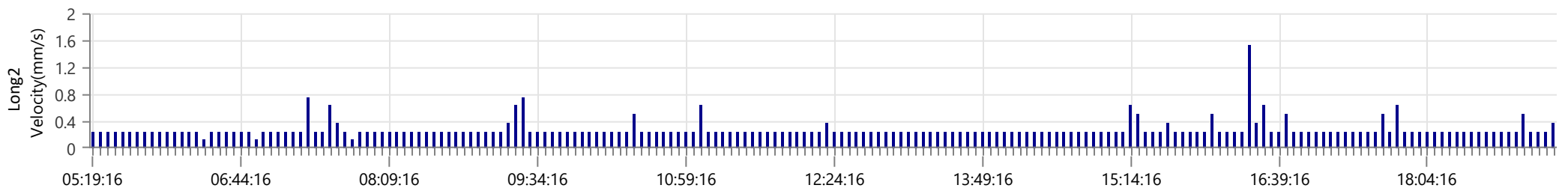
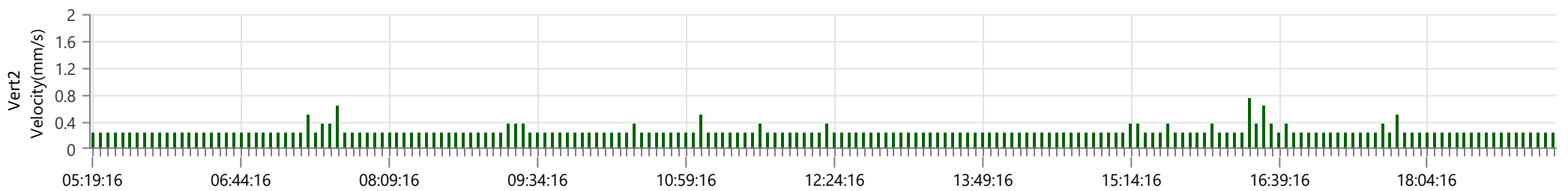
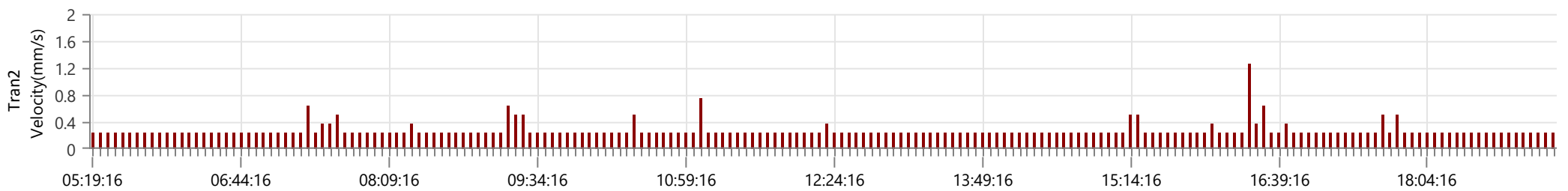
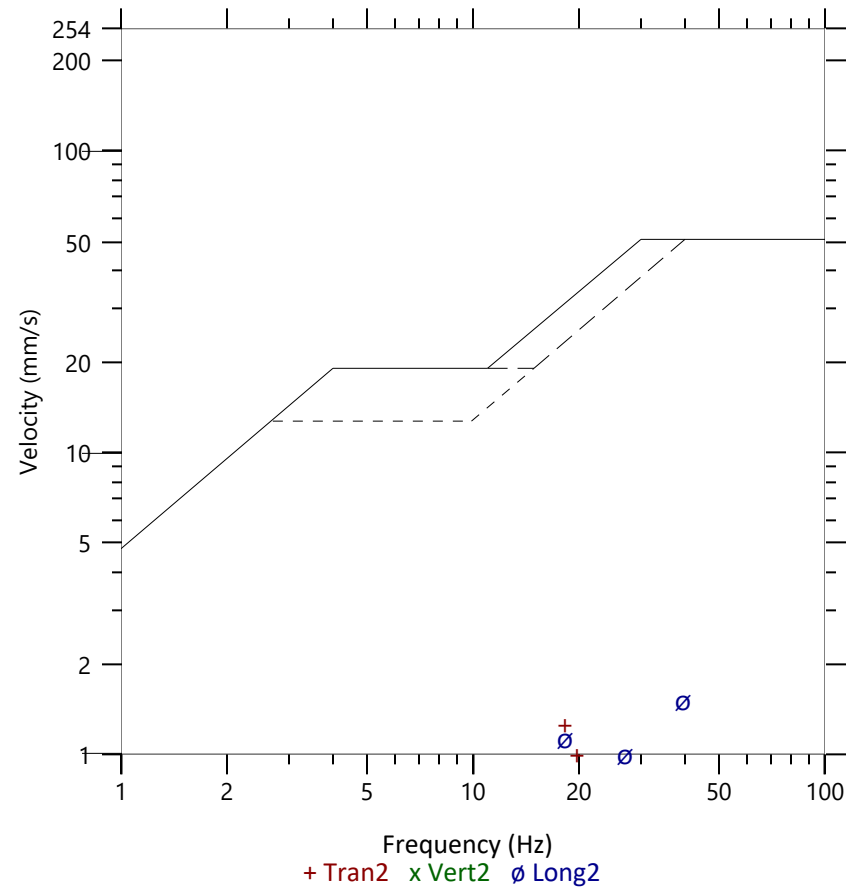
Extended Notes 51.44998 112.68097 51.44998 112.68100

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	0.762 mm/s	1.524 mm/s
Zero Crossing Frequency	18.3 Hz	19.0 Hz	39.4 Hz
Date	May 23, 2023	May 23, 2023	May 23, 2023
Time	16:26:06	16:25:56	16:26:01
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.3 Hz	8.2 Hz
Overswing Ratio	3.3	3.2	3.5
Peak Vector Sum	1.616 mm/s at May 23, 2023 16:26:01		

ISEE Linear Microphone
Peak Sound Pressure Level 1.25 pa
Date May 23, 2023
Time 12:30:16
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 24, 2023 05:18:05
Finish May 24, 2023 19:20:07
Number of Intervals/Interval 10104.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

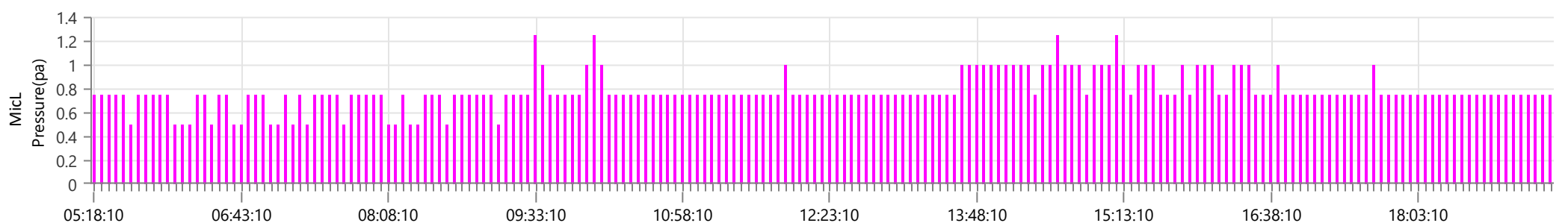
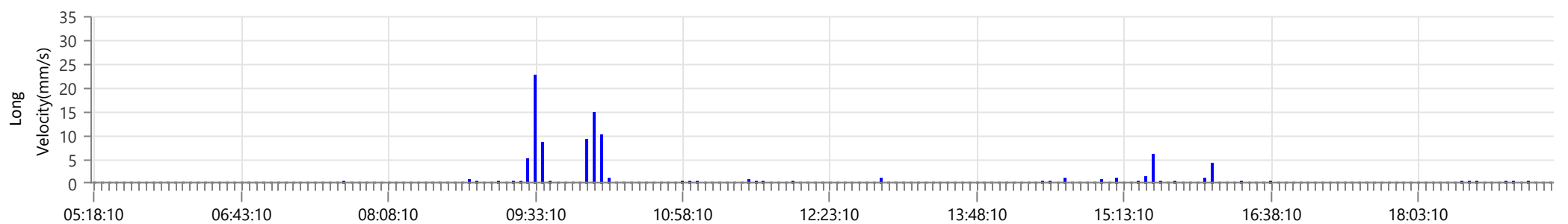
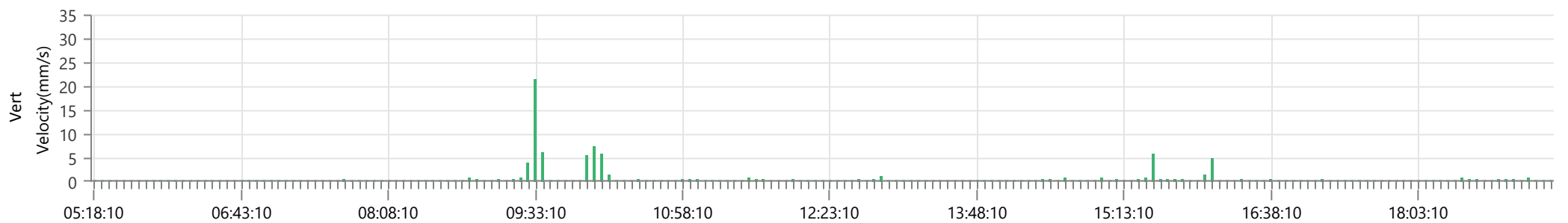
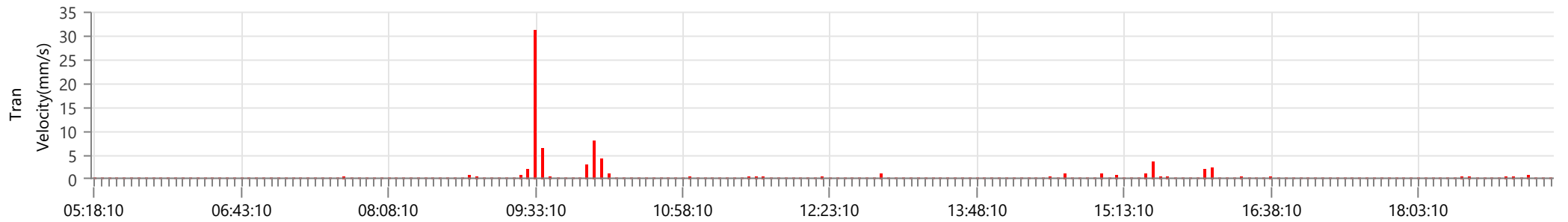
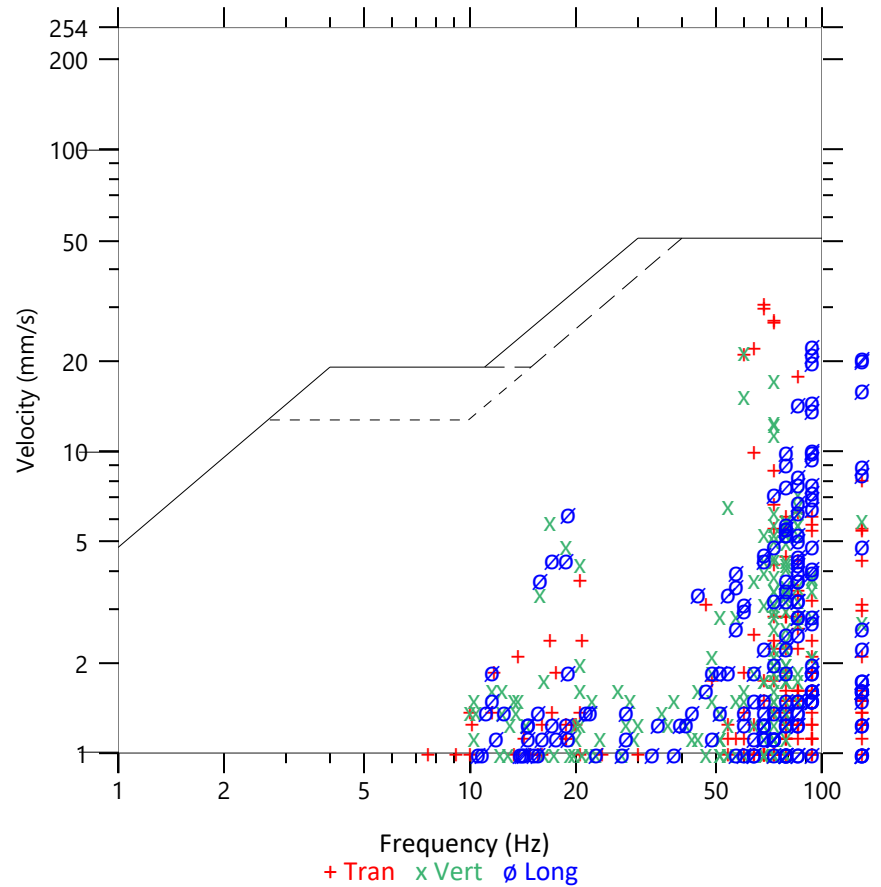
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230524051805.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	31.369 mm/s	21.717 mm/s	22.733 mm/s
Zero Crossing Frequency	68.3 Hz	60.2 Hz	93.1 Hz
Date	May 24, 2023	May 24, 2023	May 24, 2023
Time	09:36:25	09:36:20	09:36:40
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.6	4.2	4.0
Peak Vector Sum	33.086 mm/s at May 24, 2023 09:36:40		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 24, 2023
 Time 09:36:15
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 24, 2023 05:18:05
Finish May 24, 2023 19:20:07
Number of Intervals/Interval 10104.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

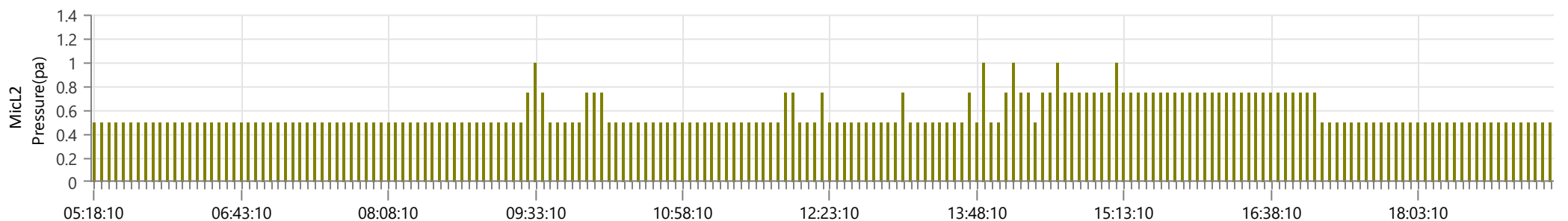
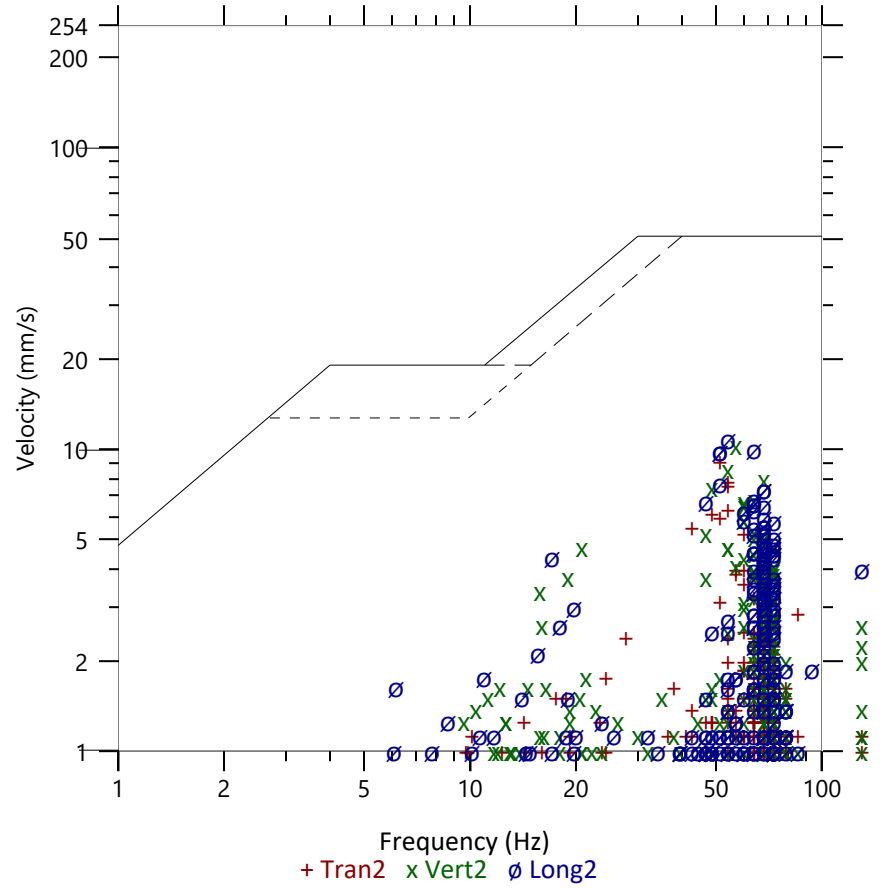
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230524051805.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	9.271 mm/s	10.414 mm/s	10.922 mm/s
Zero Crossing Frequency	51.2 Hz	56.9 Hz	53.9 Hz
Date	May 24, 2023	May 24, 2023	May 24, 2023
Time	09:36:20	09:36:10	09:36:40
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	11.3 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	5.4	3.5	3.4
Peak Vector Sum	12.540 mm/s at May 24, 2023 09:36:10		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 24, 2023
 Time 09:35:25
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 24, 2023 09:50:55
Finish May 24, 2023 19:29:02
Number of Intervals/Interval 6937.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230524095055.IDFH
Scaled Distance 37.9 (12.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

Extended Notes 51.44998 112.68097 51.44998 112.68100

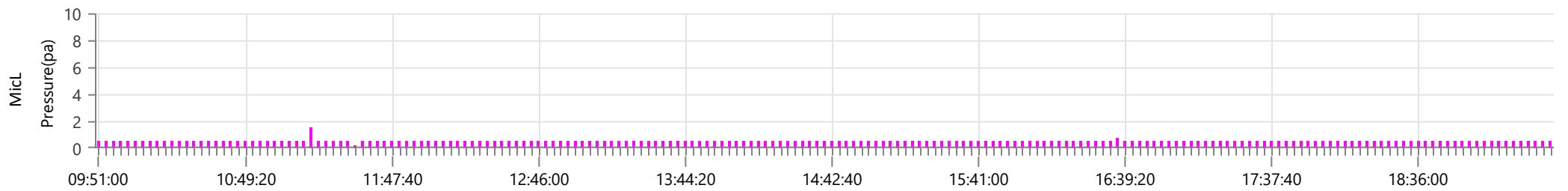
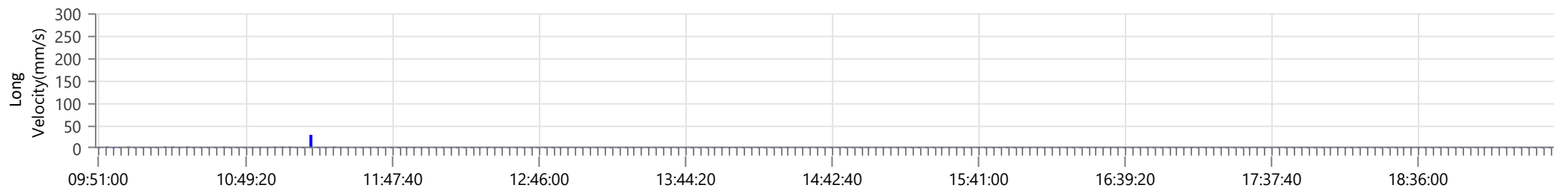
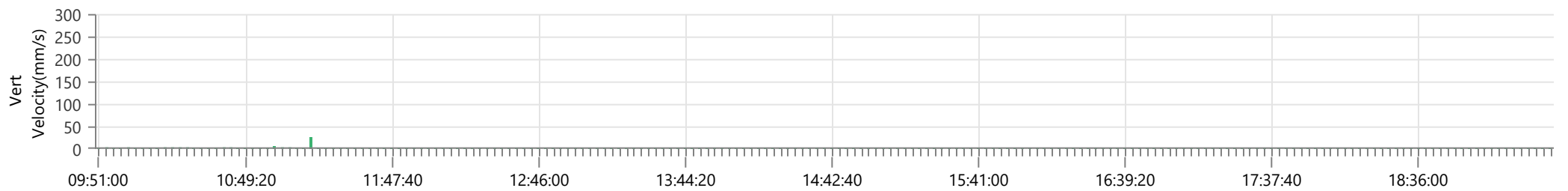
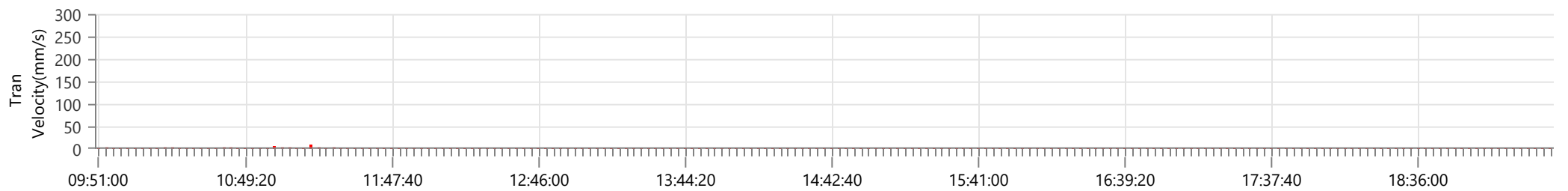
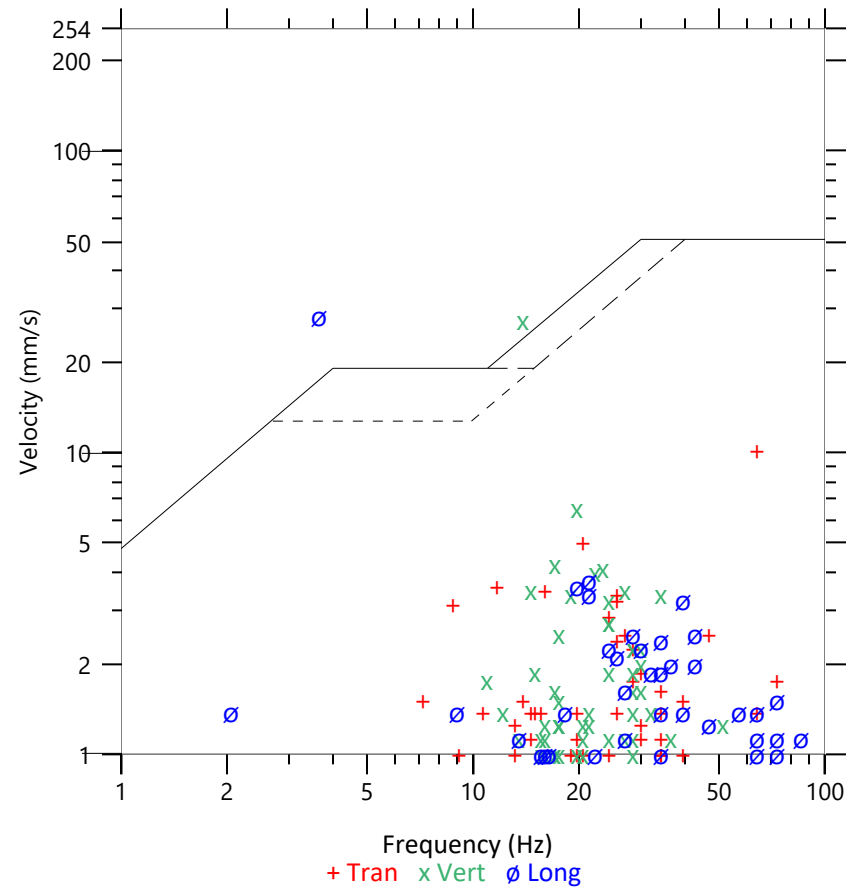
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	10.287 mm/s	27.686 mm/s	28.575 mm/s
Zero Crossing Frequency	64.0 Hz	13.8 Hz	3.7 Hz
Date	May 24, 2023	May 24, 2023	May 24, 2023
Time	11:17:25	11:17:25	11:17:25
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.7 Hz
Overswing Ratio	3.3	3.5	3.5

Peak Vector Sum 37.493 mm/s at May 24, 2023 11:17:25

ISEE Linear Microphone
 Peak Sound Pressure Level 1.50 pa
 Date May 24, 2023
 Time 11:17:25
 Zero Crossing Frequency 73.1 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 24, 2023 09:50:55
Finish May 24, 2023 19:29:02
Number of Intervals/Interval 6937.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230524095055.IDFH
Scaled Distance 37.9 (12.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

Extended Notes 51.44998 112.68097 51.44998 112.68100

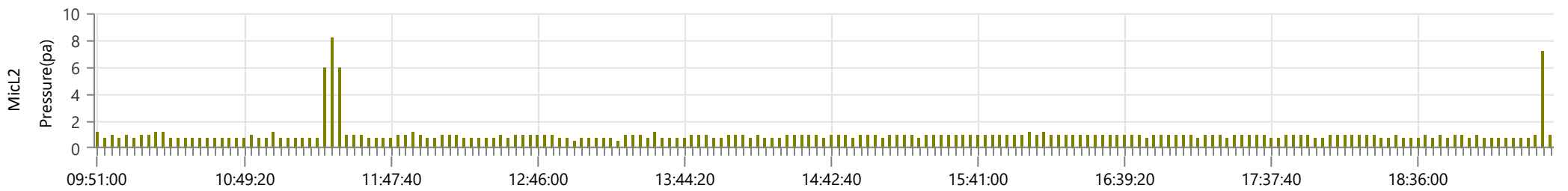
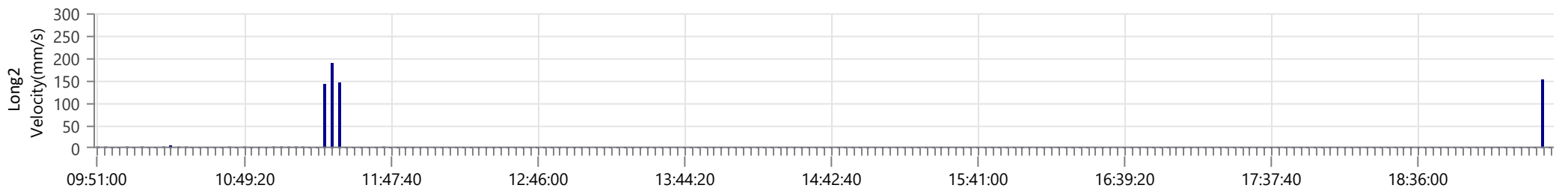
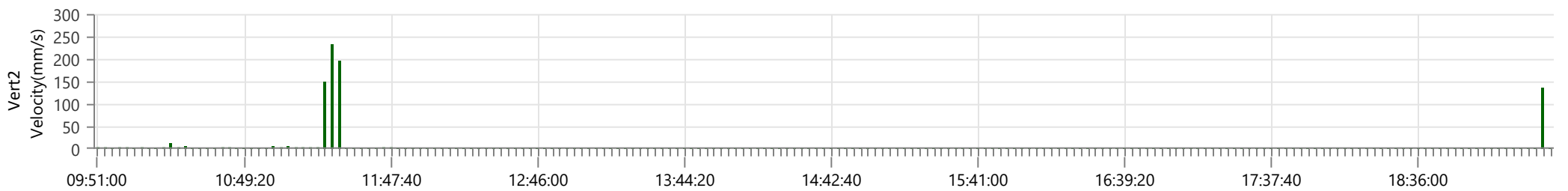
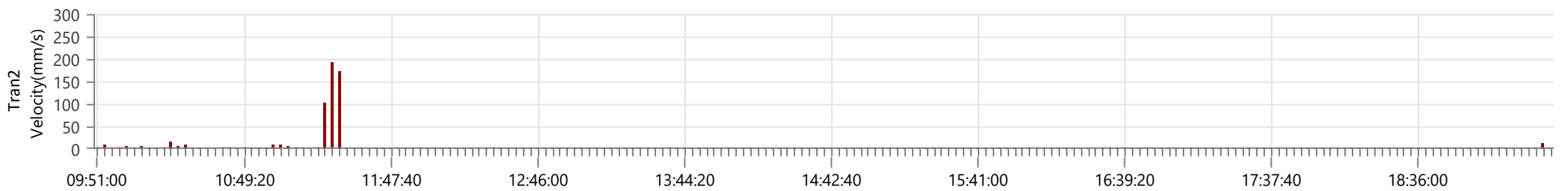
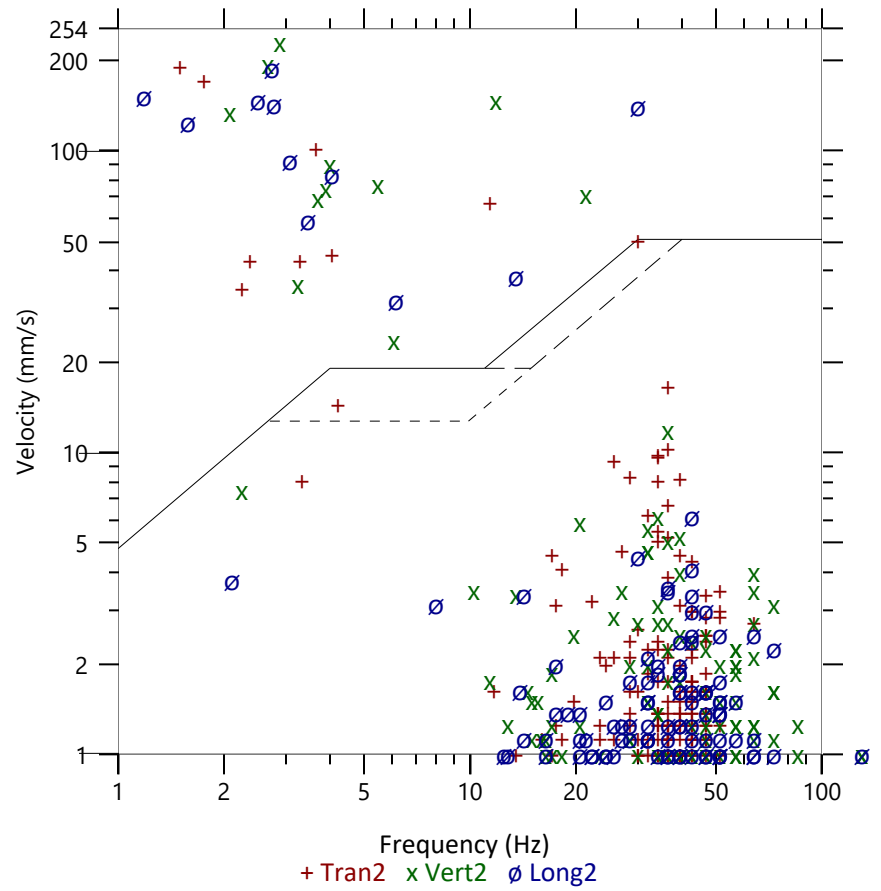
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	193.421 mm/s	233.299 mm/s	190.119 mm/s
Zero Crossing Frequency	1.5 Hz	2.9 Hz	2.8 Hz
Date	May 24, 2023	May 24, 2023	May 24, 2023
Time	11:27:00	11:27:00	11:27:00
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	7.7 Hz	8.2 Hz	20.1 Hz
Overswing Ratio	4.7	3.3	3.6

Peak Vector Sum 268.386 mm/s at May 24, 2023 11:27:00

ISEE Linear Microphone
 Peak Sound Pressure Level 8.25 pa
 Date May 24, 2023
 Time 11:27:00
 Zero Crossing Frequency 2.8 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 25, 2023 05:24:48
Finish May 25, 2023 19:25:40
Number of Intervals/Interval 10090.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

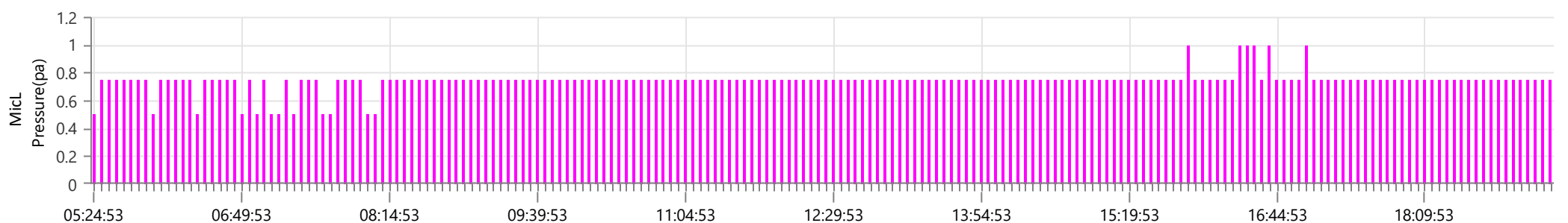
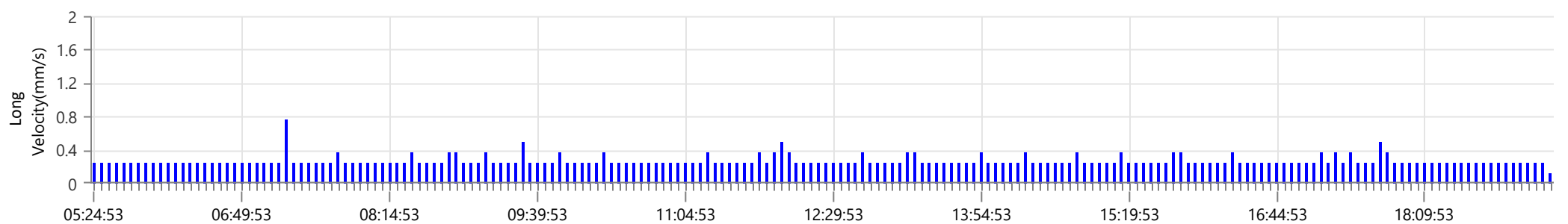
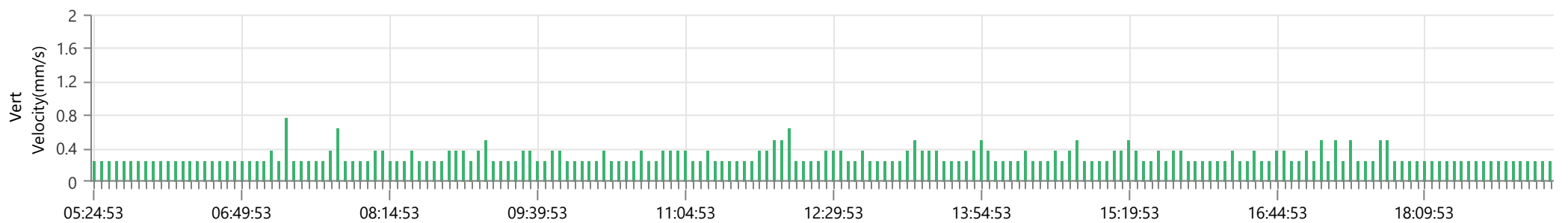
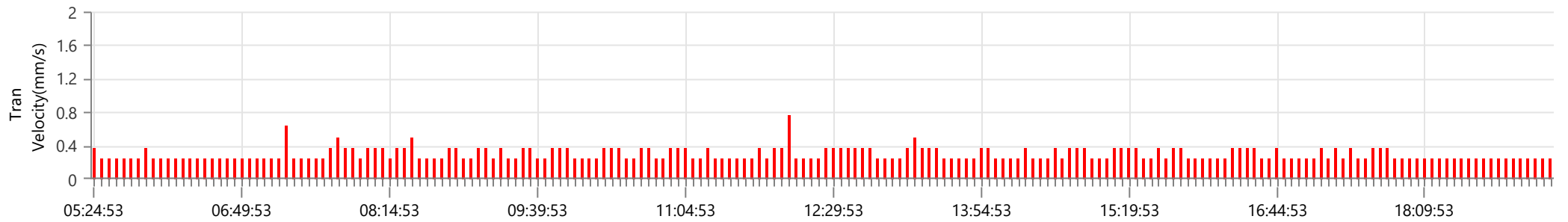
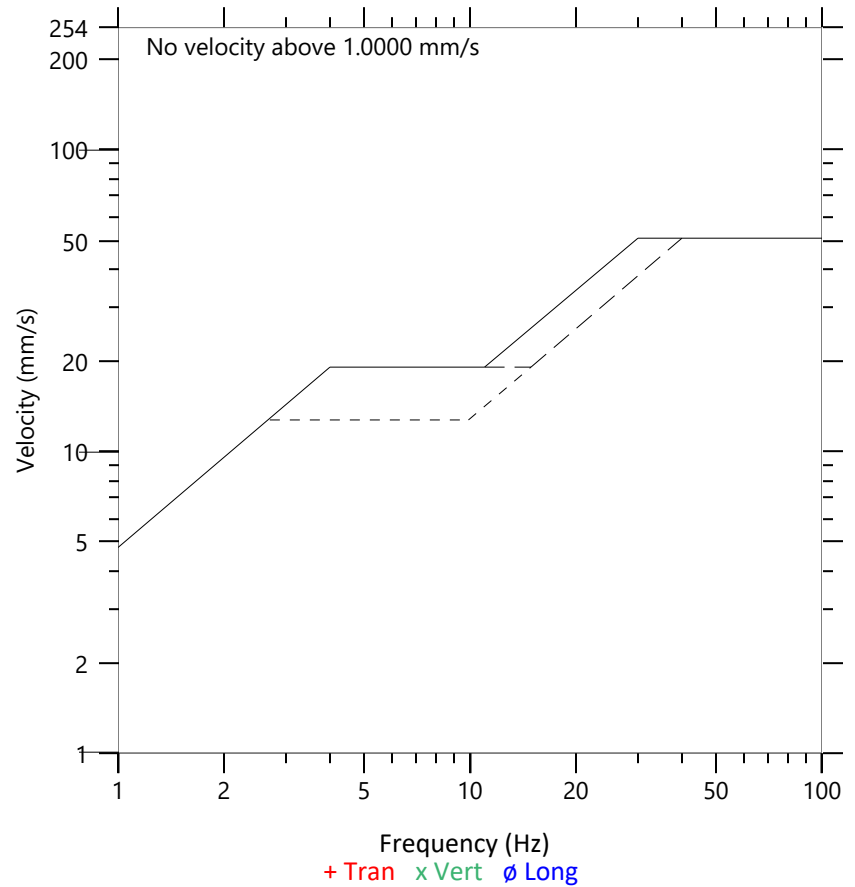
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230525052448.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.762 mm/s	0.762 mm/s	0.762 mm/s
Zero Crossing Frequency	19.0 Hz	18.3 Hz	21.3 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	12:04:23	07:18:33	07:18:33
Sensor Check	✔ Passed	✔ Passed	✔ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.7	4.1	4.0
Peak Vector Sum	0.842 mm/s at May 25, 2023 12:04:23		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 25, 2023
 Time 15:56:13
 Zero Crossing Frequency >100 Hz
 Sensor Check ✘ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 25, 2023 05:24:48
Finish May 25, 2023 19:25:40
Number of Intervals/Interval 10090.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

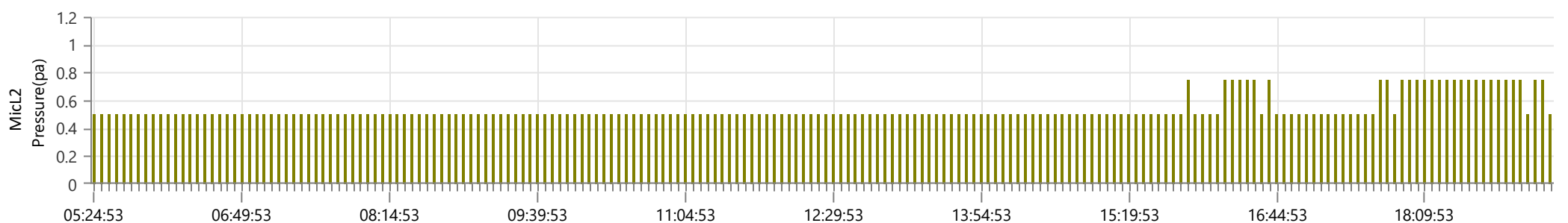
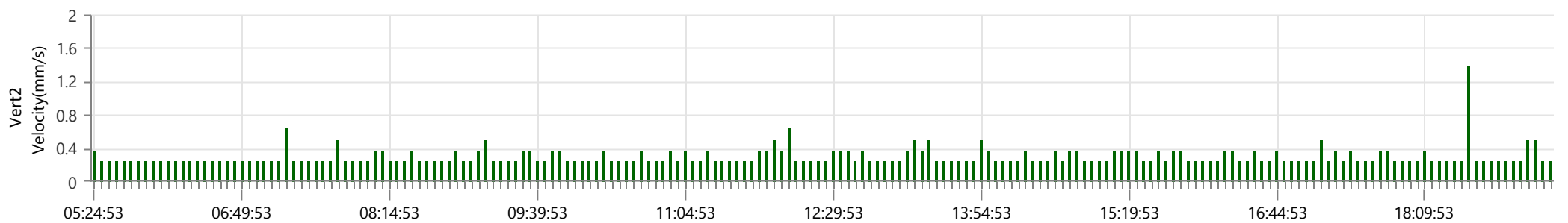
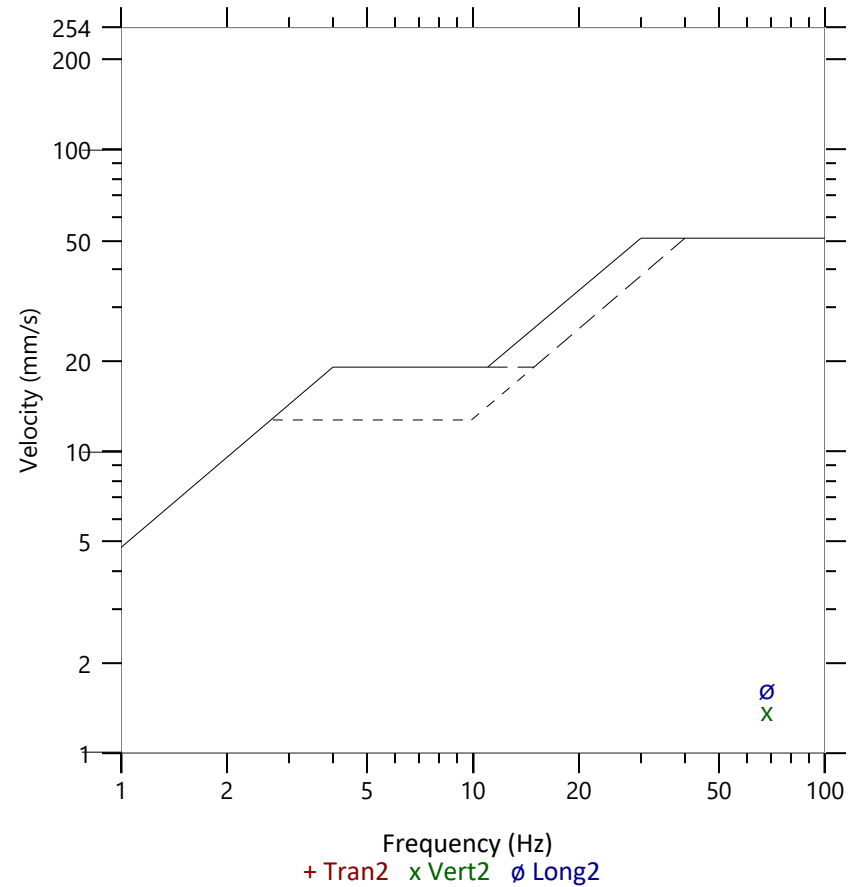
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230525052448.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.762 mm/s	1.397 mm/s	1.651 mm/s
Zero Crossing Frequency	73.1 Hz	68.3 Hz	68.3 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	18:36:43	18:36:43	18:36:43
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	8.6 Hz	7.8 Hz	7.9 Hz
Overswing Ratio	3.7	3.5	3.4
Peak Vector Sum	1.992 mm/s at May 25, 2023 18:36:43		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date May 25, 2023
 Time 15:56:13
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 25, 2023 05:41:15
Finish May 25, 2023 09:32:51
Number of Intervals/Interval 2779.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230525054115.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

Extended Notes 51.44998 112.68097 51.44998 112.68100

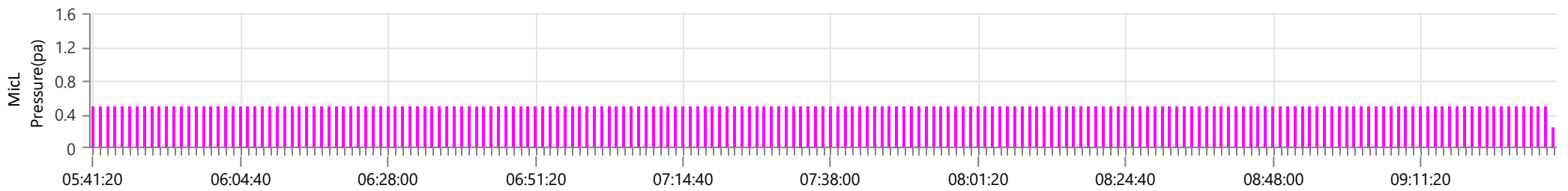
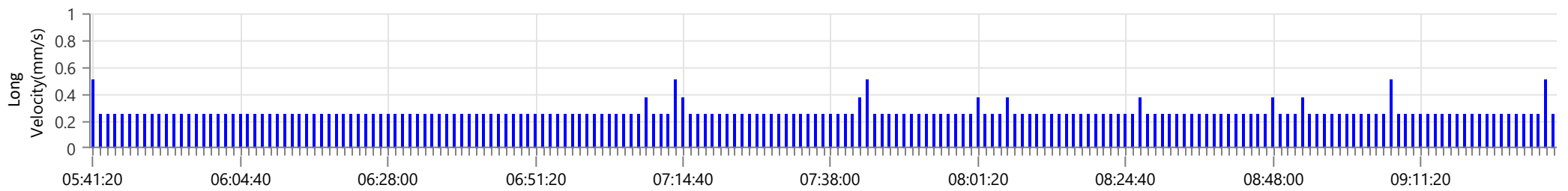
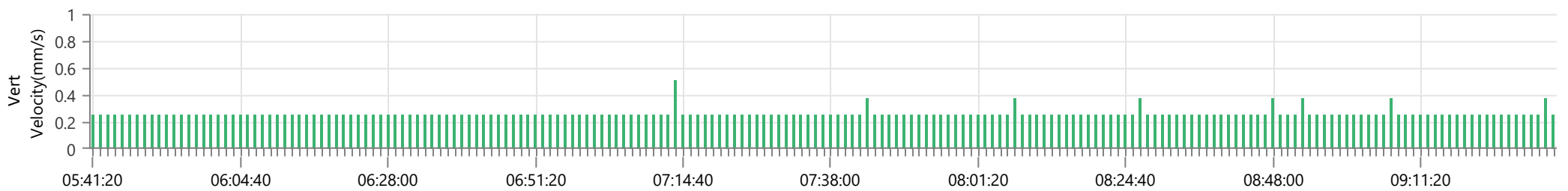
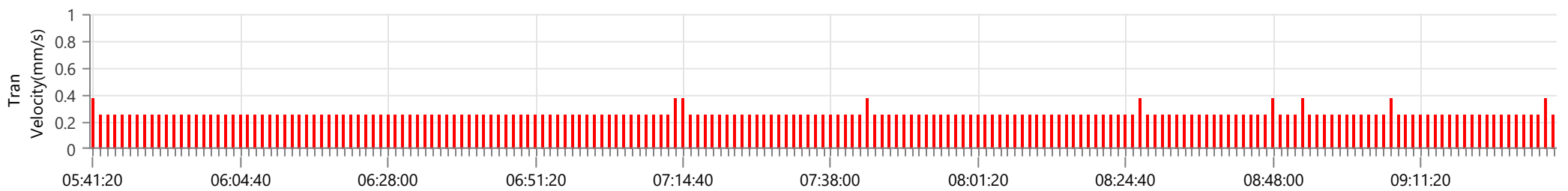
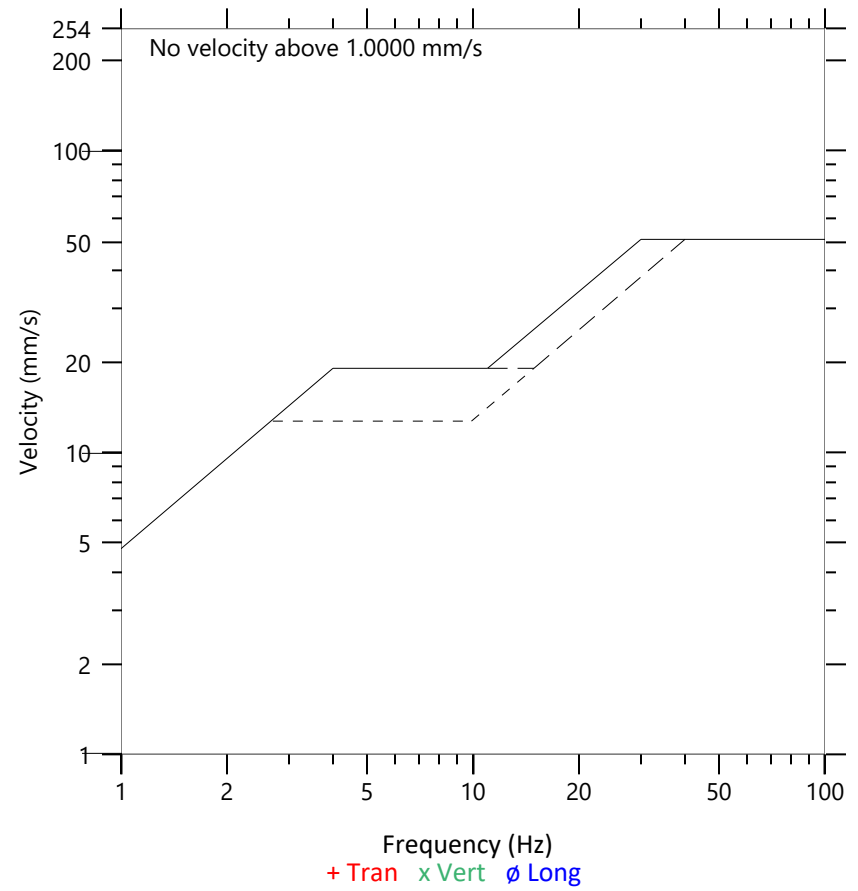
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.381 mm/s	0.508 mm/s	0.508 mm/s
Zero Crossing Frequency	85.3 Hz	18.3 Hz	56.9 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	05:41:40	07:14:00	05:41:40
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	3.3	3.6	3.6

Peak Vector Sum 0.596 mm/s at May 25, 2023 09:07:25

ISEE Linear Microphone
Peak Sound Pressure Level 0.50 pa
Date May 25, 2023
Time 05:41:25
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 25, 2023 05:41:15
Finish May 25, 2023 09:32:51
Number of Intervals/Interval 2779.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 10, 2023 by InstanTel
Event File Name BA19603_20230525054115.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
16 willow point WSP
User Name: DL
General: side of house facing dike

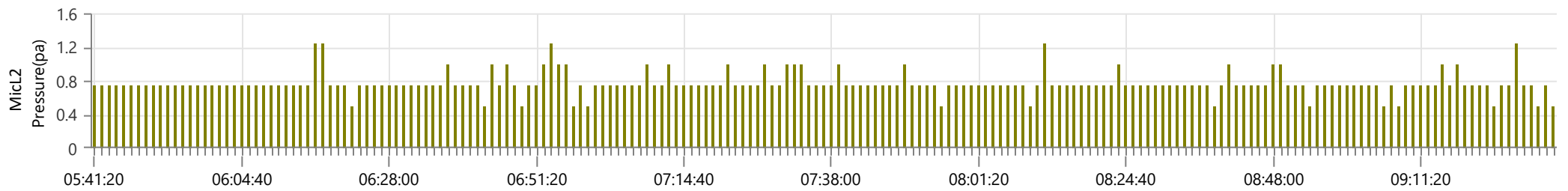
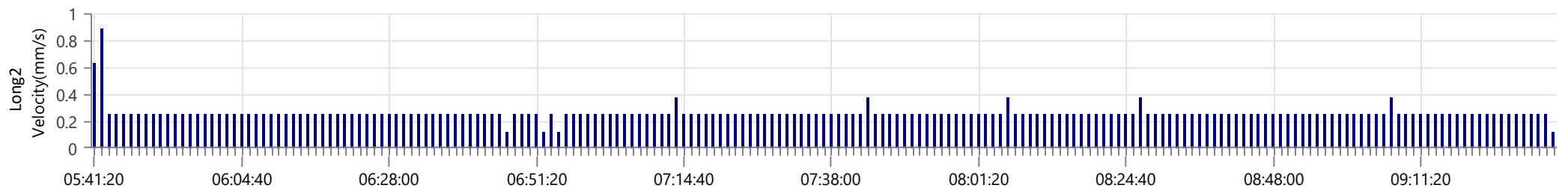
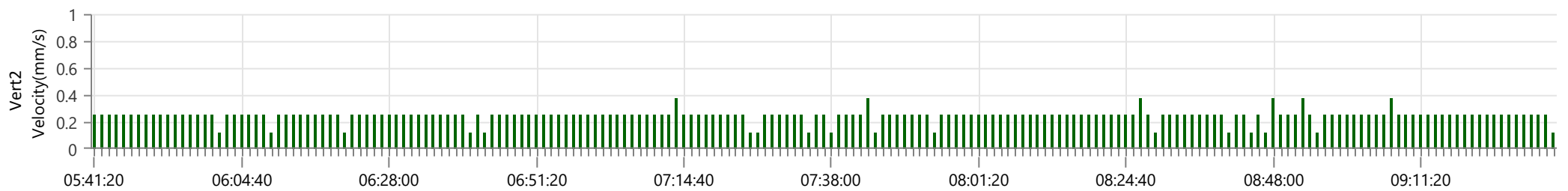
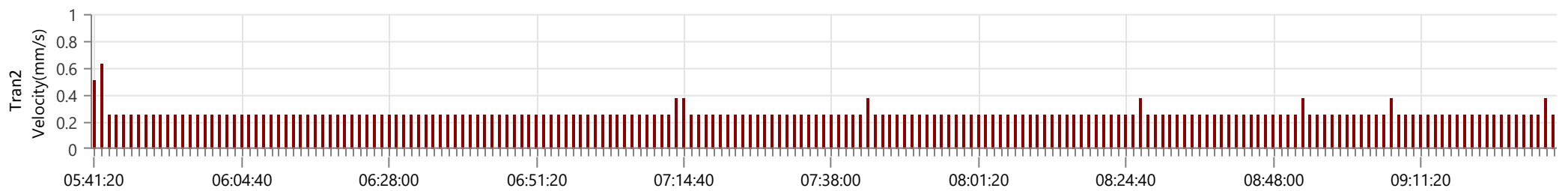
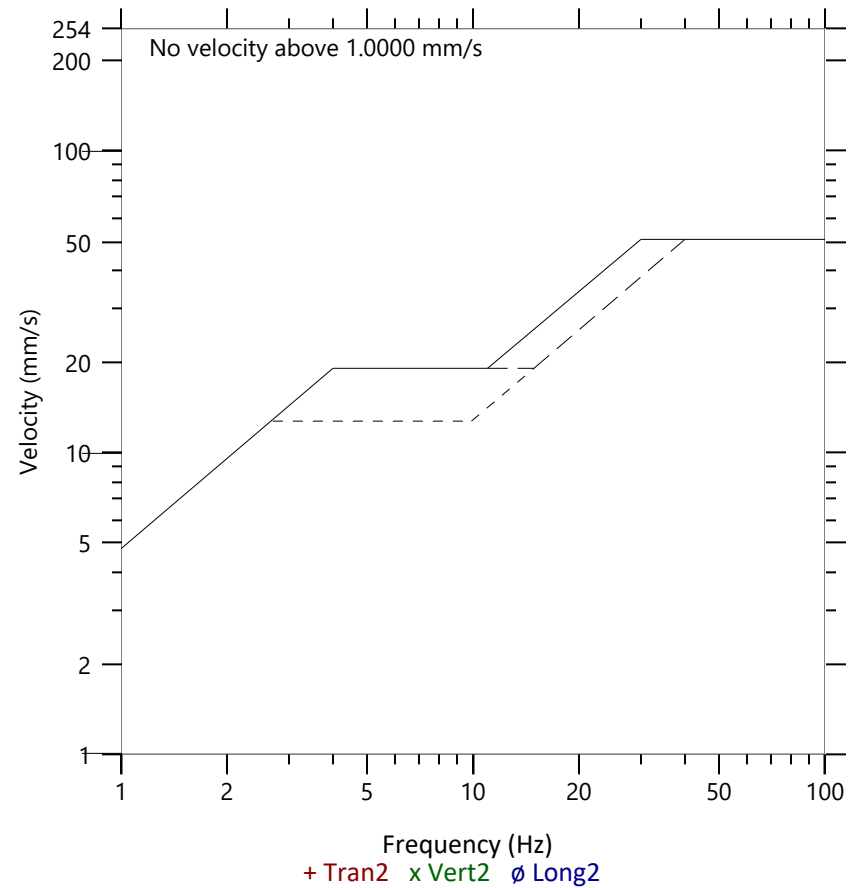
Extended Notes 51.44998 112.68097 51.44998 112.68100

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	0.381 mm/s	0.889 mm/s
Zero Crossing Frequency	46.5 Hz	>100 Hz	51.2 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	05:42:55	07:14:00	05:42:55
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.3 Hz	7.9 Hz
Overswing Ratio	3.3	3.2	3.6
Peak Vector Sum	1.024 mm/s at May 25, 2023 05:42:55		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 25, 2023
 Time 06:16:20
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start
Finish
Number of Intervals/Interval
Sample Rate
Setup File Name
Operator

May 25, 2023 09:51:34
 May 25, 2023 19:30:02
 6941.00/5 sec
 1024 sps
 N/A
 -

Serial Number
Model Number
Battery Level
Unit Calibration
Event File Name
Scaled Distance

BA19603
 BlastMate III/8 10.72.8.17
 6.2 volts
 January 10, 2023 by Instantel
 BA19603_20230525095134.IDFH
 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way
User Name: WSP
DL
General: frontofhouse facing dike

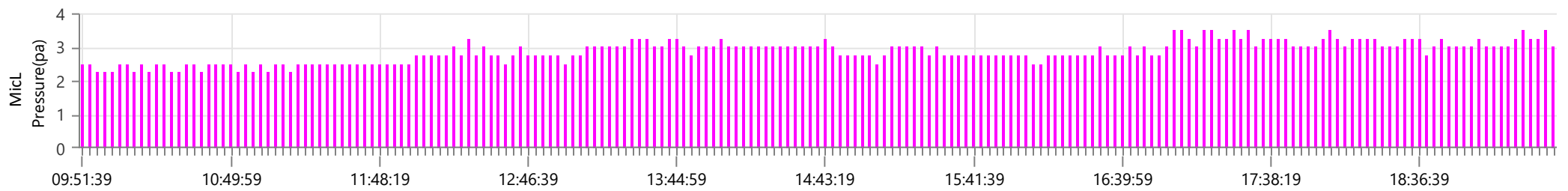
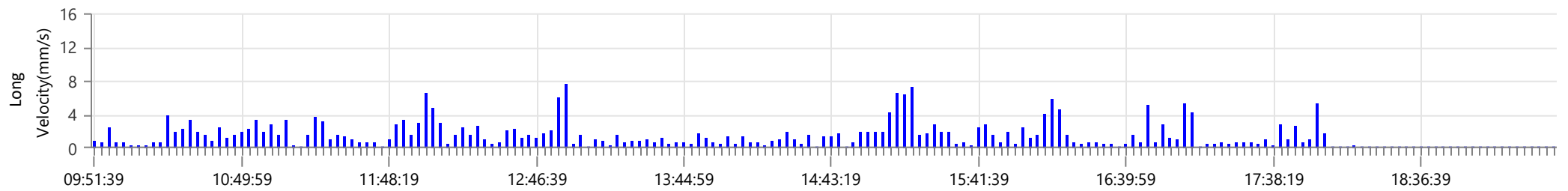
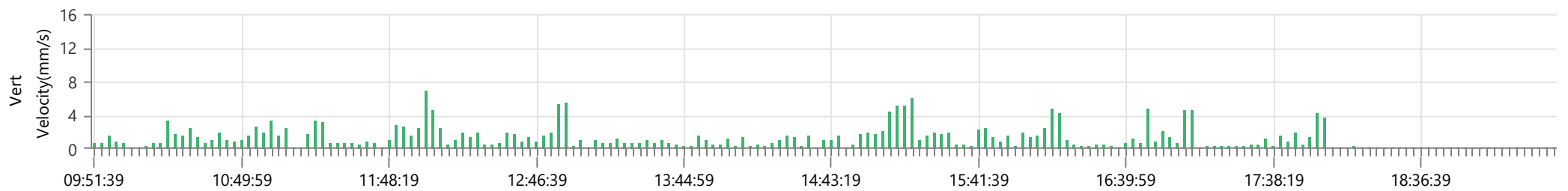
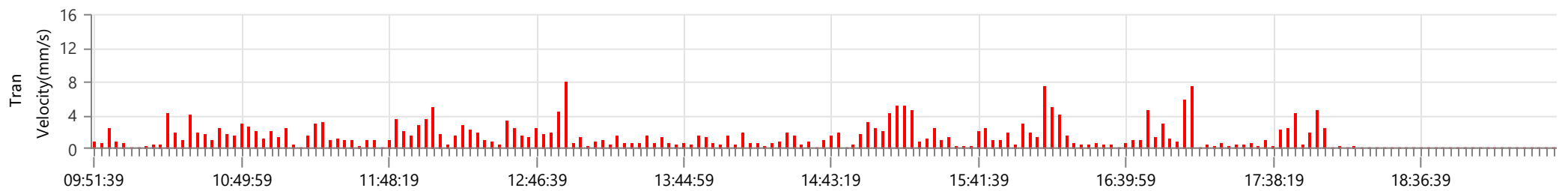
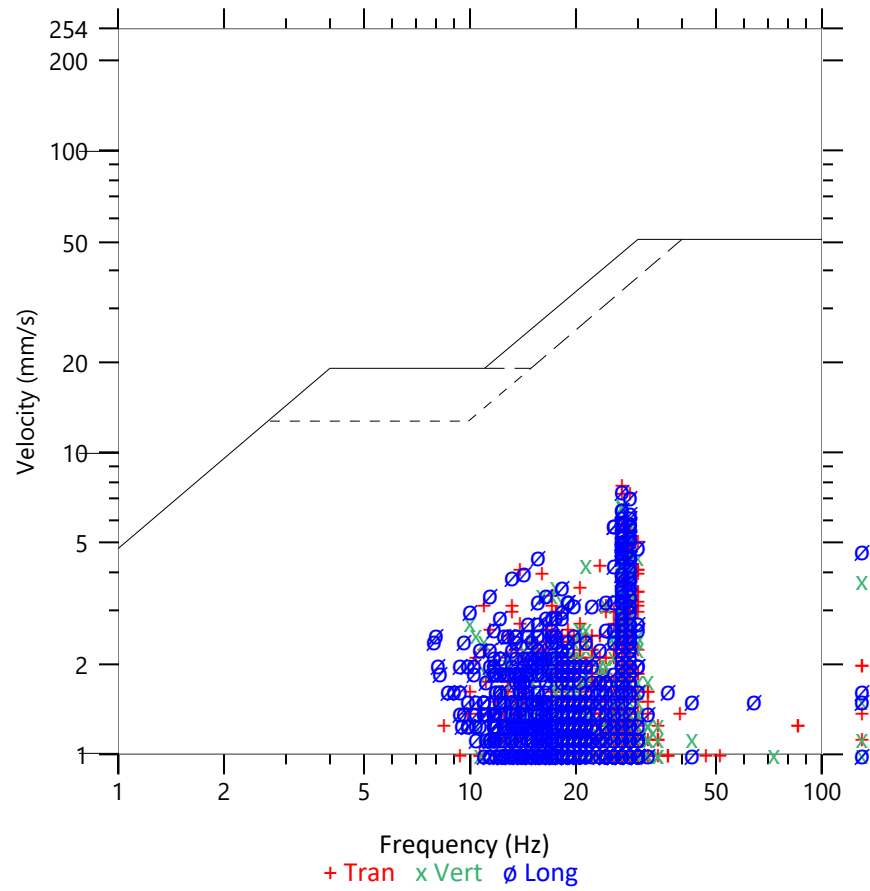
Extended Notes 51.44880 112.68244 51.44879 112.68240

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	8.001 mm/s	6.858 mm/s	7.620 mm/s
Zero Crossing Frequency	26.9 Hz	26.9 Hz	26.9 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	12:59:39	12:04:59	12:59:39
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.3	3.6	3.6
Peak Vector Sum	10.300 mm/s at May 25, 2023 12:59:39		

ISEE Linear Microphone
 Peak Sound Pressure Level: 3.50 pa
 Date: May 25, 2023
 Time: 17:02:44
 Zero Crossing Frequency: >100 Hz
 Sensor Check: ✗ Check
 Frequency: 0.0 Hz
 Test Amplitude: 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 25, 2023 09:51:34
Finish May 25, 2023 19:30:02
Number of Intervals/Interval 6941.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230525095134.IDFH
Scaled Distance 12.6 (4.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

Extended Notes 51.44880 112.68244 51.44879 112.68240

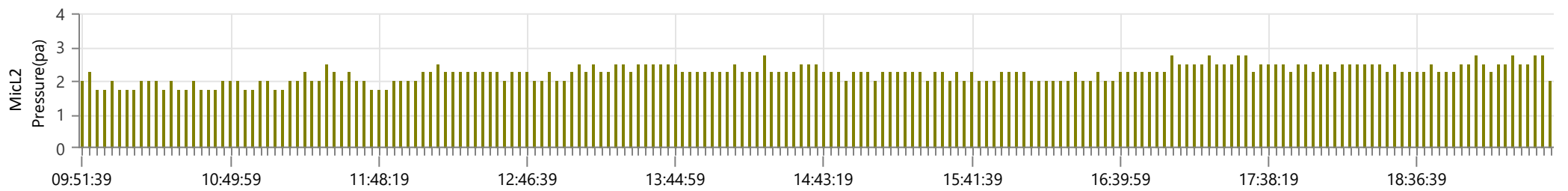
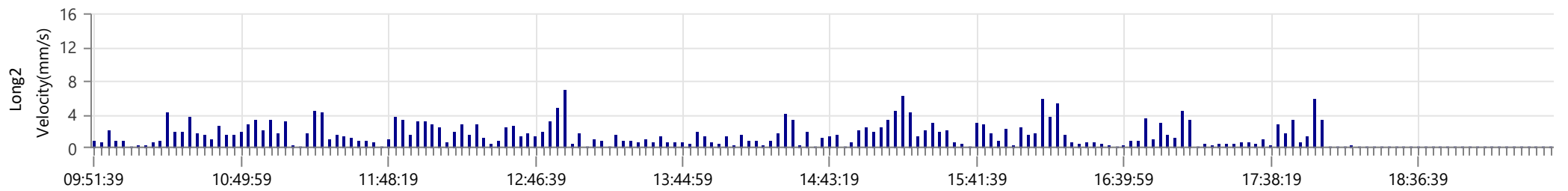
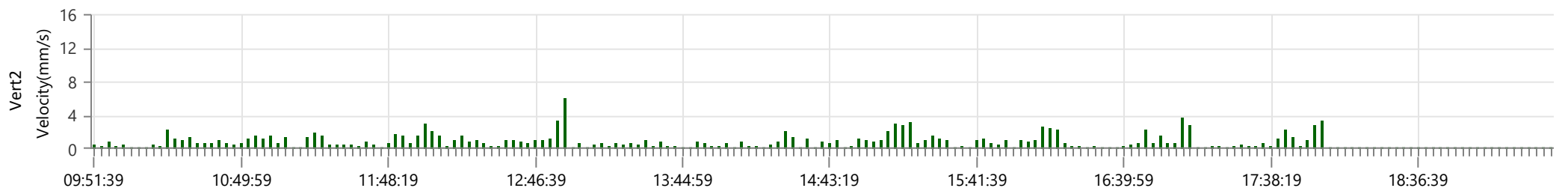
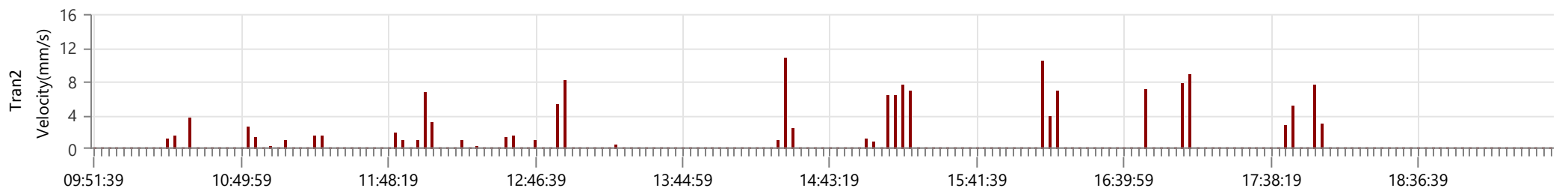
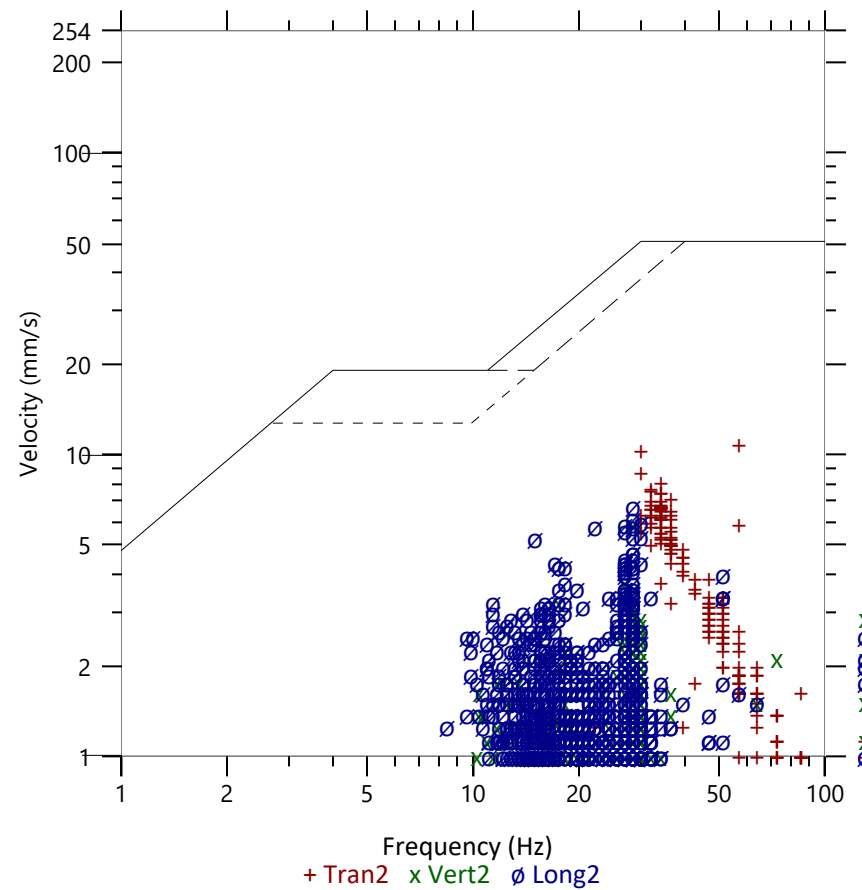
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	10.922 mm/s	5.969 mm/s	6.858 mm/s
Zero Crossing Frequency	56.9 Hz	28.4 Hz	28.4 Hz
Date	May 25, 2023	May 25, 2023	May 25, 2023
Time	14:27:04	12:59:39	12:59:39
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	14.0 Hz	8.3 Hz	7.9 Hz
Overswing Ratio	8.0	3.3	3.6

Peak Vector Sum 10.985 mm/s at May 25, 2023 14:27:04

ISEE Linear Microphone
Peak Sound Pressure Level 2.75 pa
Date May 25, 2023
Time 14:21:39
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 26, 2023 05:19:59
Finish May 26, 2023 19:04:21
Number of Intervals/Interval 9892.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

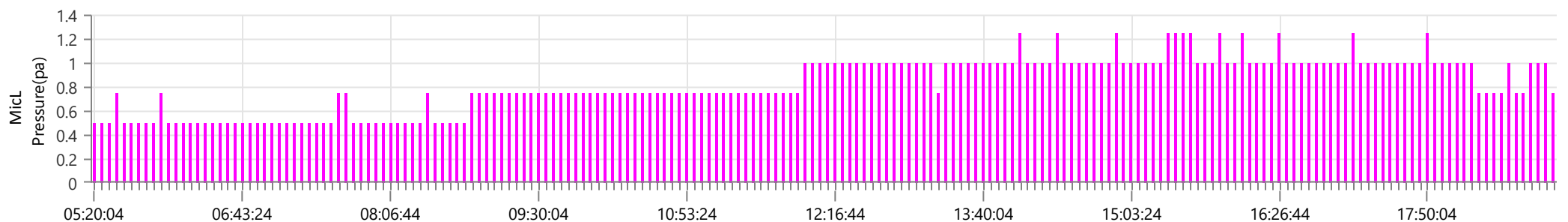
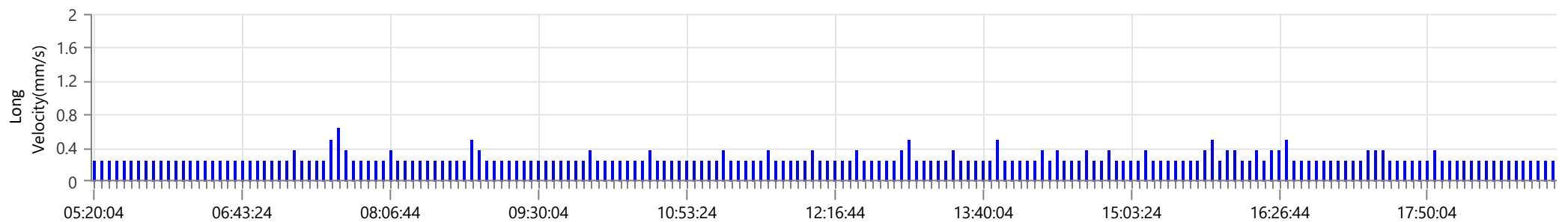
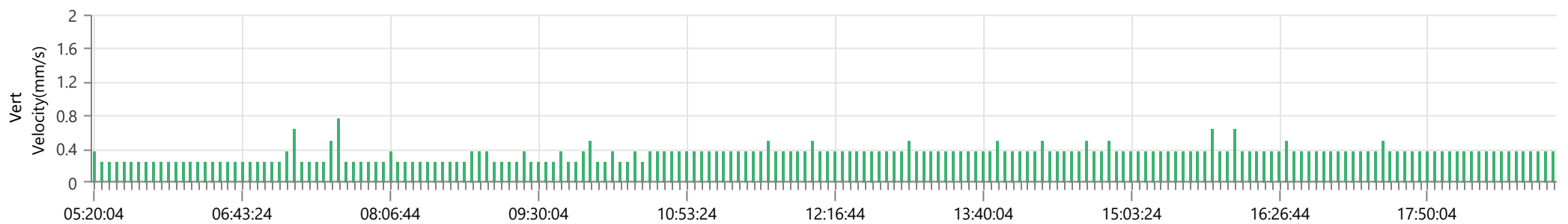
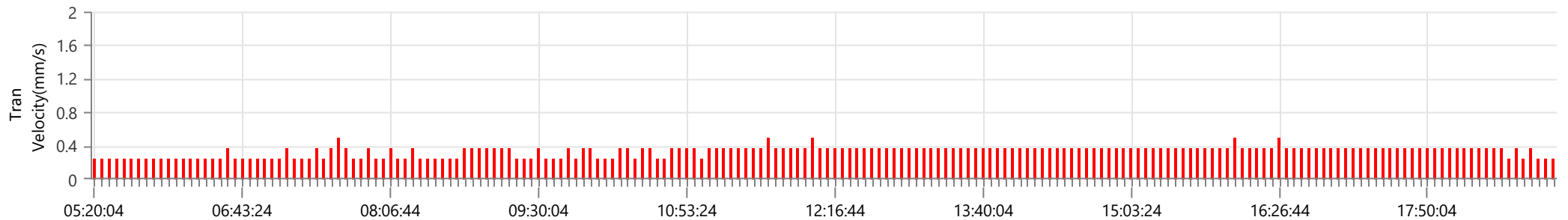
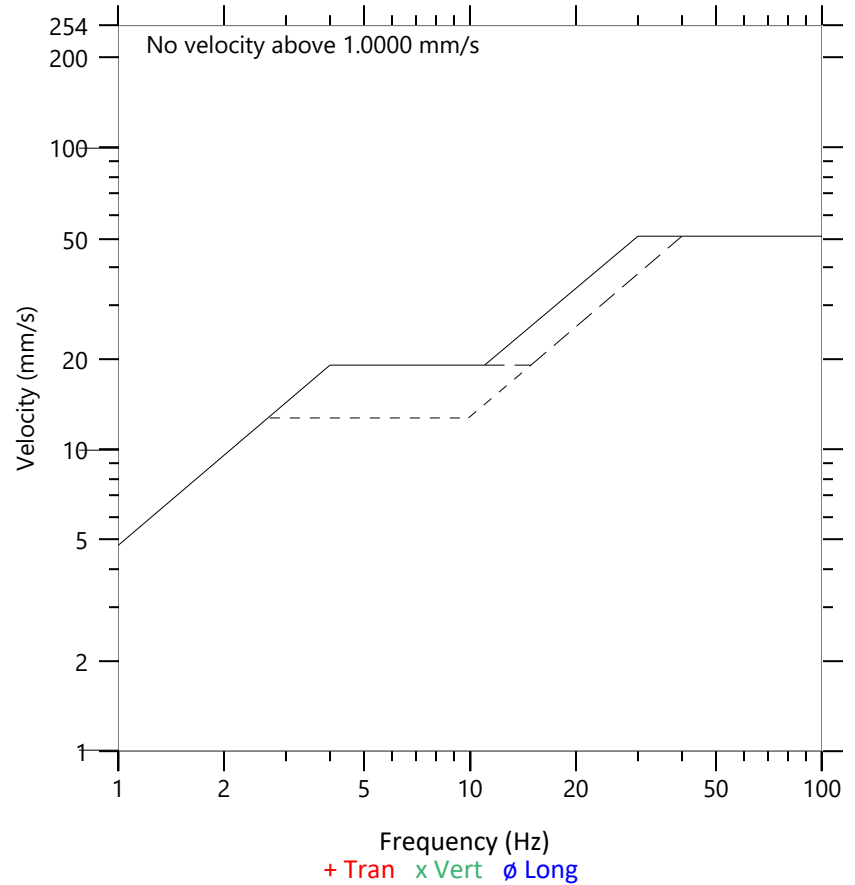
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230526051959.IDFH
Scaled Distance 50.6 (16.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.508 mm/s	0.762 mm/s	0.635 mm/s
Zero Crossing Frequency	41.0 Hz	29.3 Hz	26.3 Hz
Date	May 26, 2023	May 26, 2023	May 26, 2023
Time	07:39:09	07:39:09	07:39:04
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.6	4.1	4.0
Peak Vector Sum	0.833 mm/s at May 26, 2023 07:39:09		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 26, 2023
 Time 14:02:04
 Zero Crossing Frequency 64.0 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 26, 2023 05:19:59
Finish May 26, 2023 19:04:21
Number of Intervals/Interval 9892.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

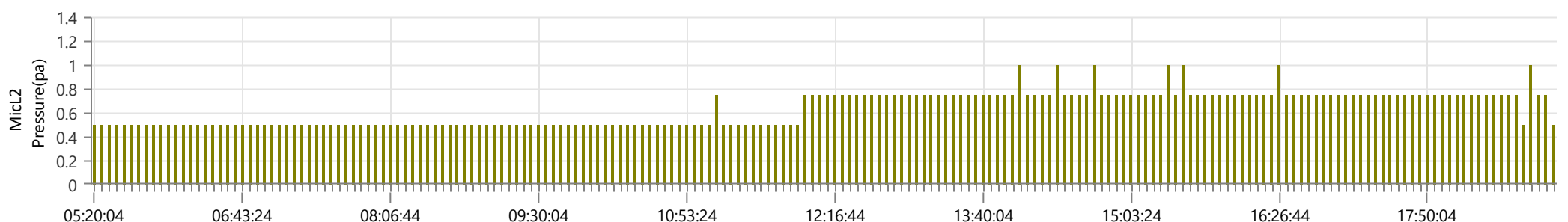
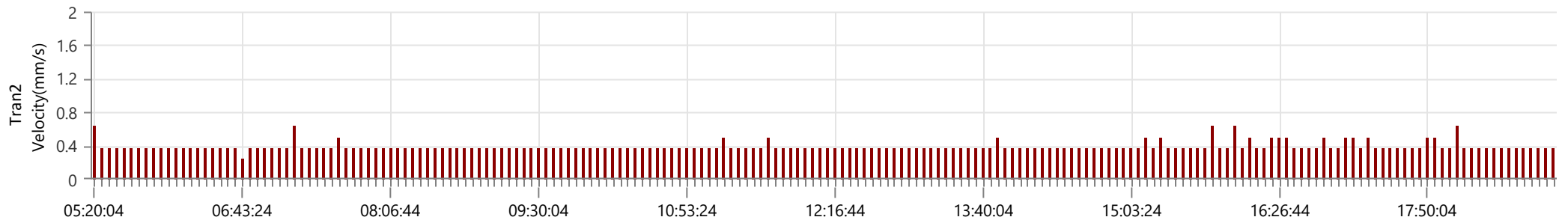
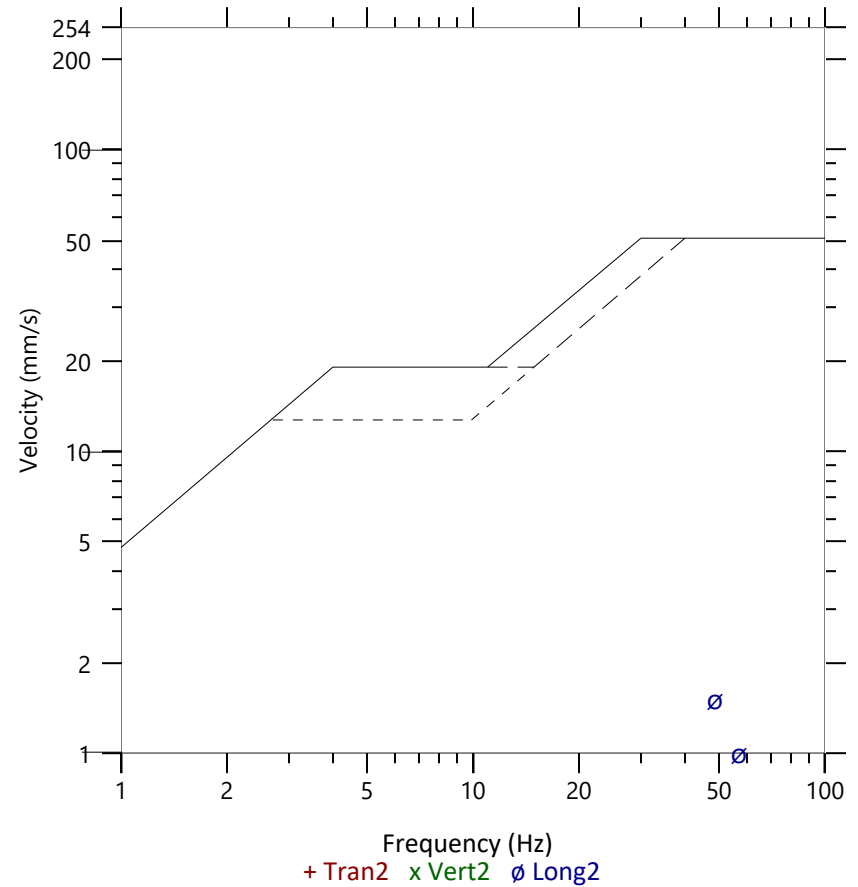
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230526051959.IDFH
Scaled Distance 50.6 (16.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	0.889 mm/s	1.524 mm/s
Zero Crossing Frequency	46.5 Hz	44.5 Hz	48.8 Hz
Date	May 26, 2023	May 26, 2023	May 26, 2023
Time	05:21:19	17:56:24	17:56:24
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	3.5	3.4	3.5
Peak Vector Sum	1.836 mm/s at May 26, 2023 17:56:24		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 26, 2023
 Time 14:02:04
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 26, 2023 05:30:53
Finish May 26, 2023 19:08:21
Number of Intervals/Interval 9809.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230526053053.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

Extended Notes 51.44880 112.68244 51.44879 112.68240

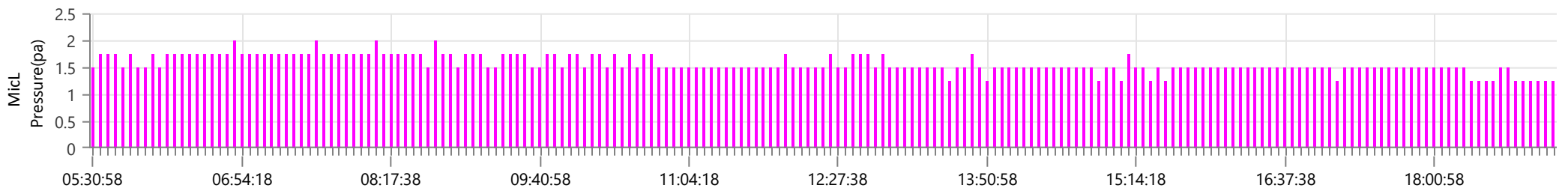
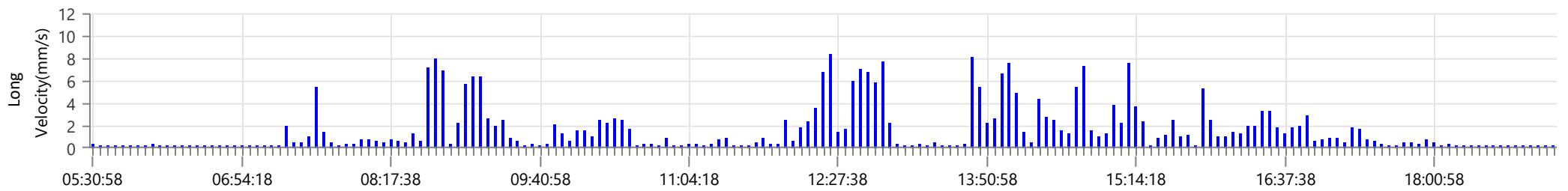
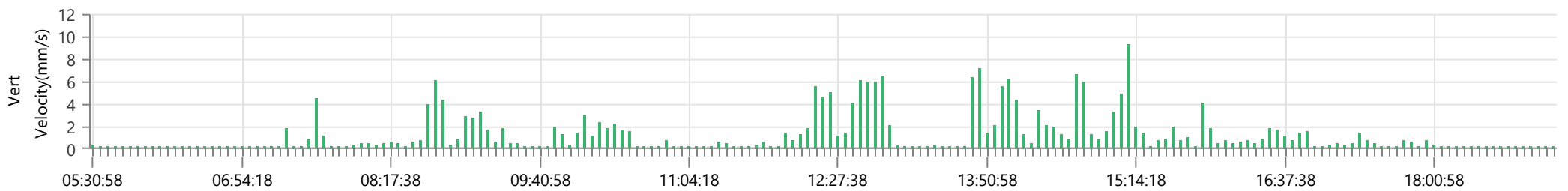
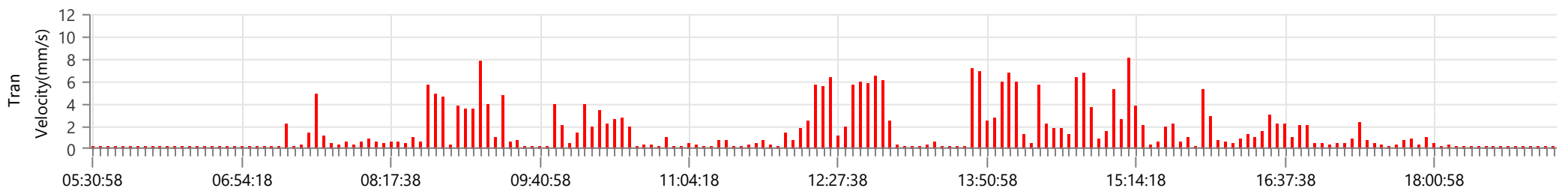
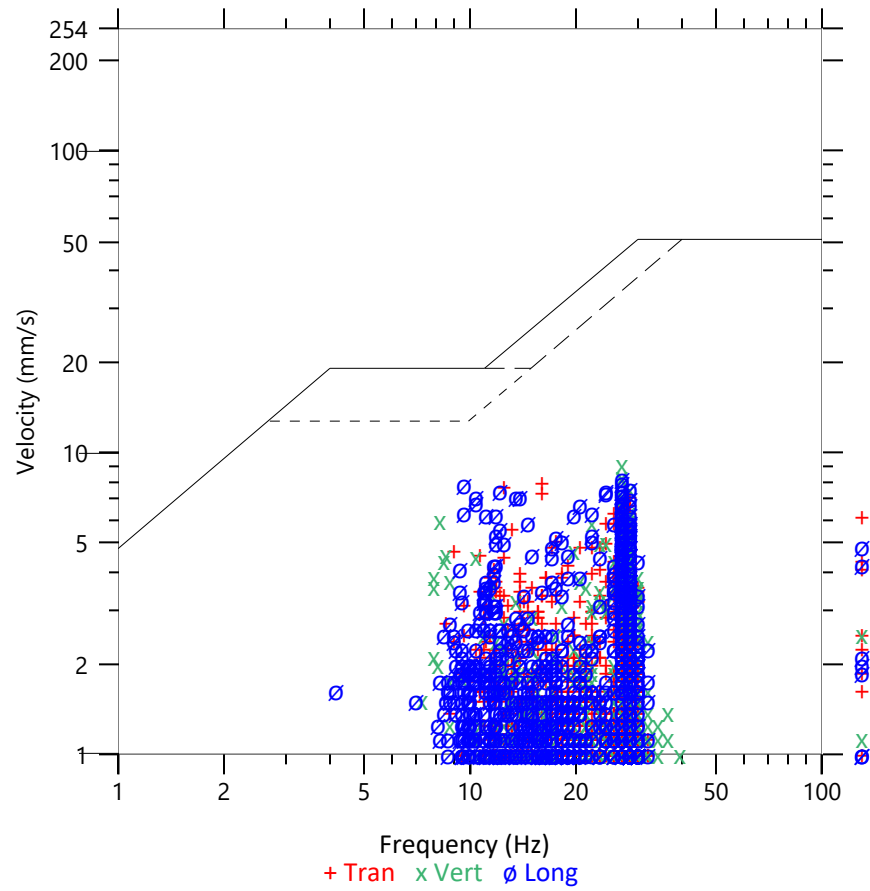
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	8.128 mm/s	9.271 mm/s	8.382 mm/s
Zero Crossing Frequency	16.0 Hz	26.9 Hz	26.9 Hz
Date	May 26, 2023	May 26, 2023	May 26, 2023
Time	15:11:28	15:13:43	12:23:33
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	8.2 Hz
Overswing Ratio	3.2	3.5	3.3

Peak Vector Sum: 10.729 mm/s at May 26, 2023 13:46:03

ISEE Linear Microphone
 Peak Sound Pressure Level: 2.00 pa
 Date: May 26, 2023
 Time: 06:52:13
 Zero Crossing Frequency: >100 Hz
 Sensor Check: ✗ Check
 Frequency: 0.0 Hz
 Test Amplitude: 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 26, 2023 05:30:53
Finish May 26, 2023 19:08:21
Number of Intervals/Interval 9809.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230526053053.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

Extended Notes 51.44880 112.68244 51.44879 112.68240

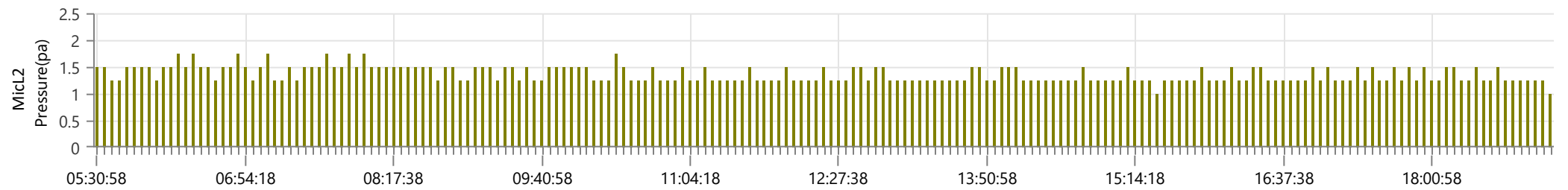
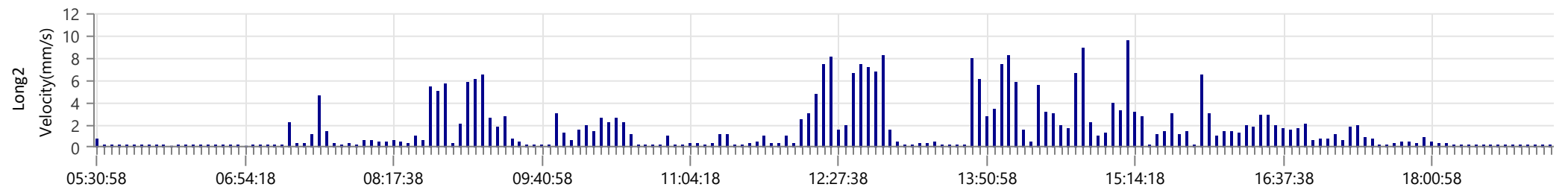
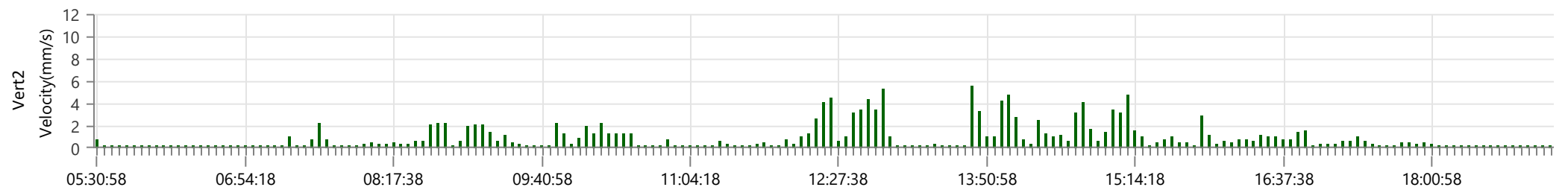
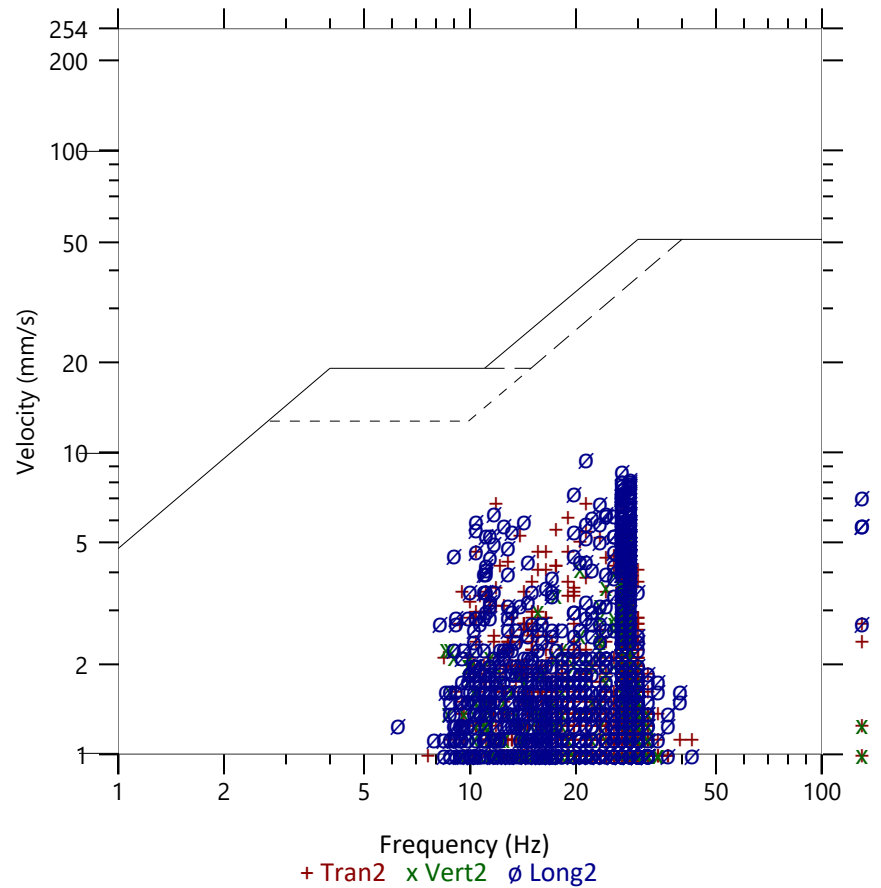
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	6.985 mm/s	5.588 mm/s	9.652 mm/s
Zero Crossing Frequency	11.9 Hz	28.4 Hz	21.3 Hz
Date	May 26, 2023	May 26, 2023	May 26, 2023
Time	09:11:28	13:46:03	15:11:08
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.9 Hz	8.5 Hz	8.2 Hz
Overswing Ratio	3.2	3.2	3.5

Peak Vector Sum 11.283 mm/s at May 26, 2023 15:11:08

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 26, 2023
 Time 06:16:58
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 27, 2023 05:16:59
Finish May 27, 2023 18:45:22
Number of Intervals/Interval 9700.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

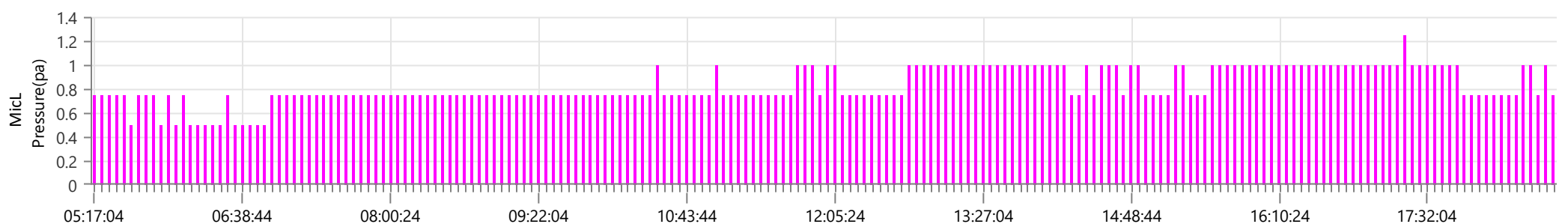
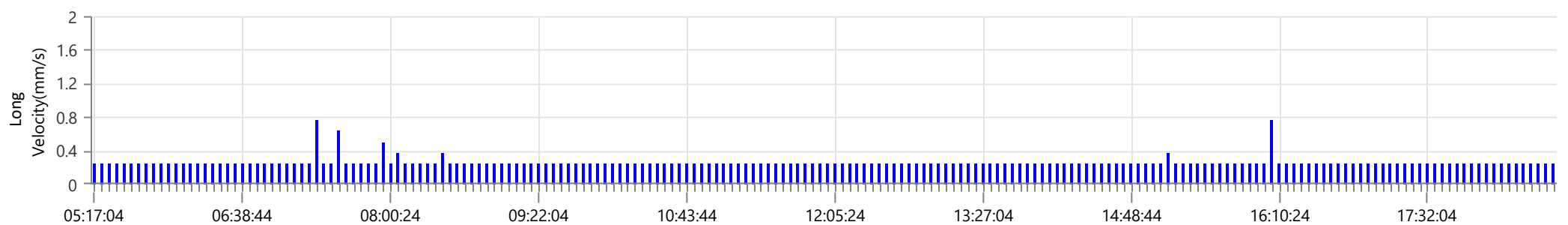
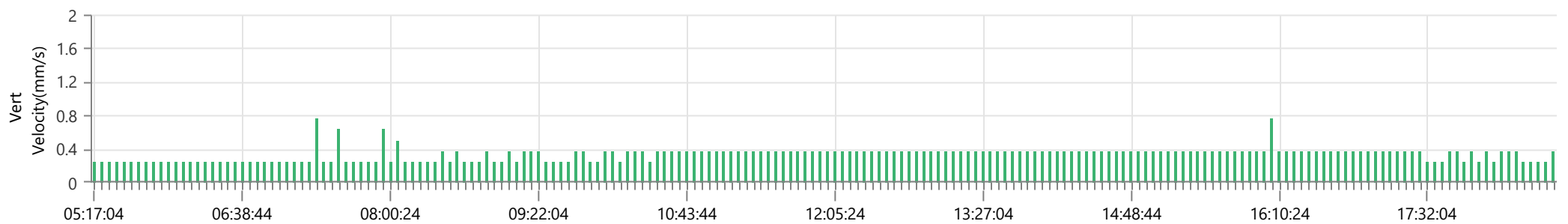
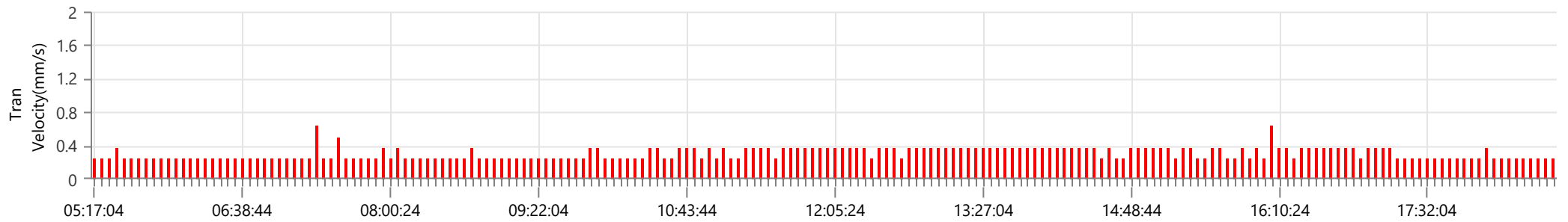
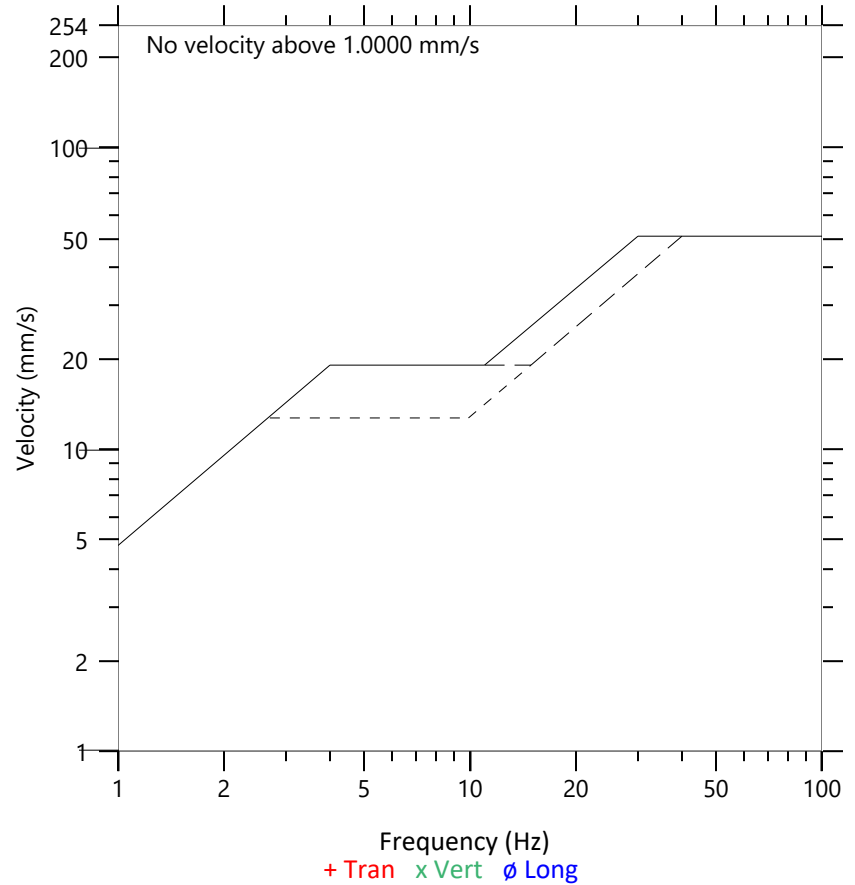
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230527051659.IDFH
Scaled Distance 50.6 (16.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	0.762 mm/s	0.762 mm/s
Zero Crossing Frequency	19.3 Hz	26.3 Hz	17.7 Hz
Date	May 27, 2023	May 27, 2023	May 27, 2023
Time	07:20:19	07:20:29	07:20:29
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.6	4.1	3.9
Peak Vector Sum	1.024 mm/s at May 27, 2023 16:07:29		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 27, 2023
 Time 17:20:59
 Zero Crossing Frequency 78.8 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 27, 2023 05:16:59
Finish May 27, 2023 18:45:22
Number of Intervals/Interval 9700.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

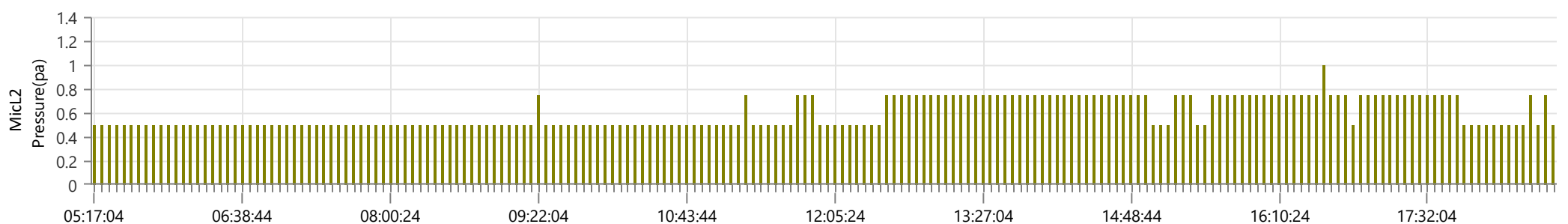
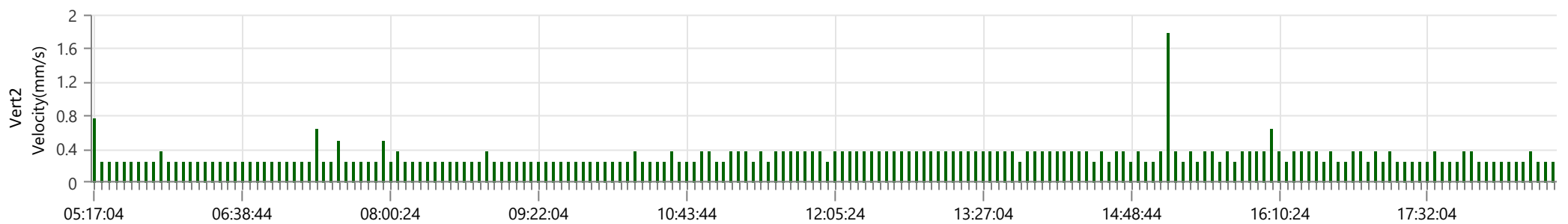
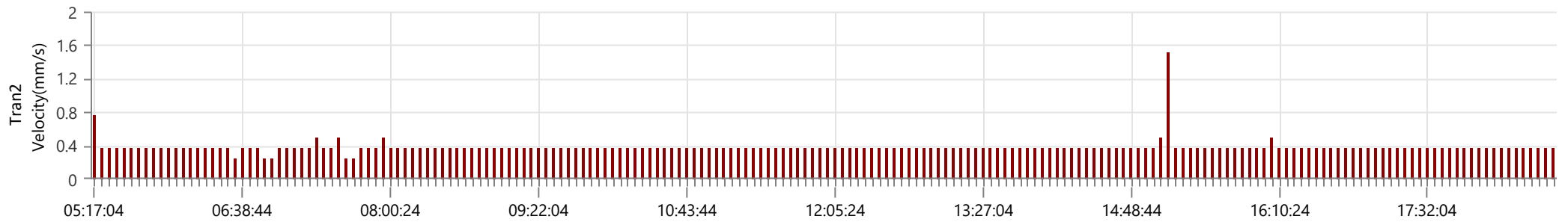
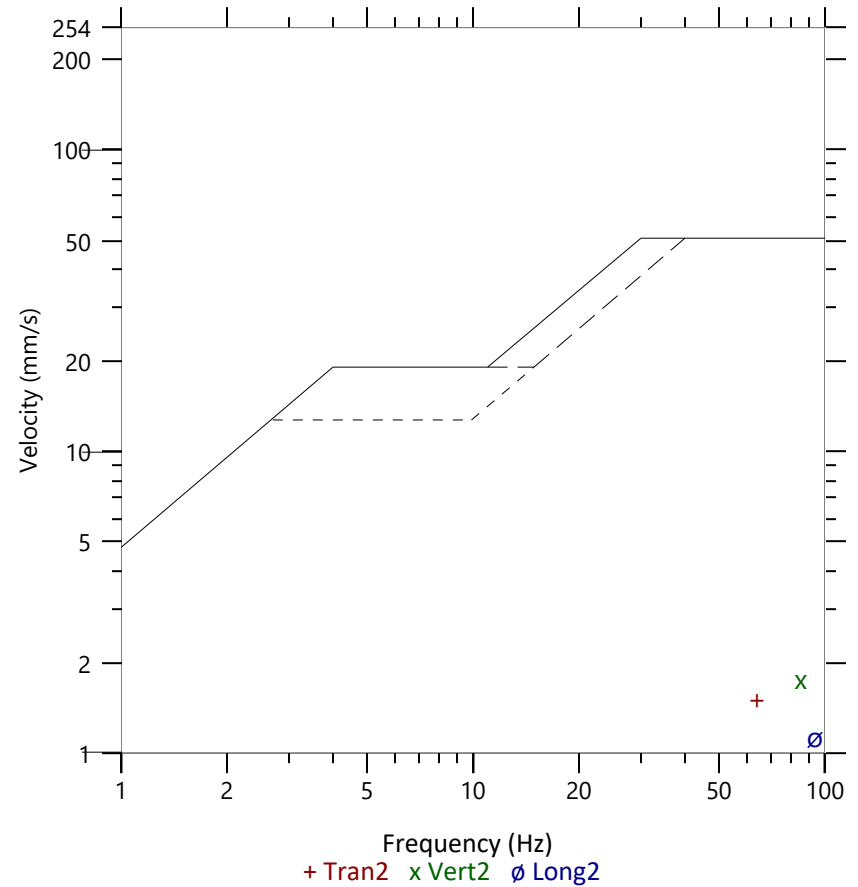
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230527051659.IDFH
Scaled Distance 50.6 (16.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.778 mm/s	1.143 mm/s
Zero Crossing Frequency	64.0 Hz	85.3 Hz	93.1 Hz
Date	May 27, 2023	May 27, 2023	May 27, 2023
Time	15:11:39	15:11:39	15:11:39
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	8.8 Hz	7.7 Hz	8.1 Hz
Overswing Ratio	3.6	3.4	3.4
Peak Vector Sum	2.261 mm/s at May 27, 2023 15:11:39		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 27, 2023
 Time 16:36:09
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 27, 2023 05:28:59
Finish May 27, 2023 18:48:11
Number of Intervals/Interval 9590.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230527052859.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

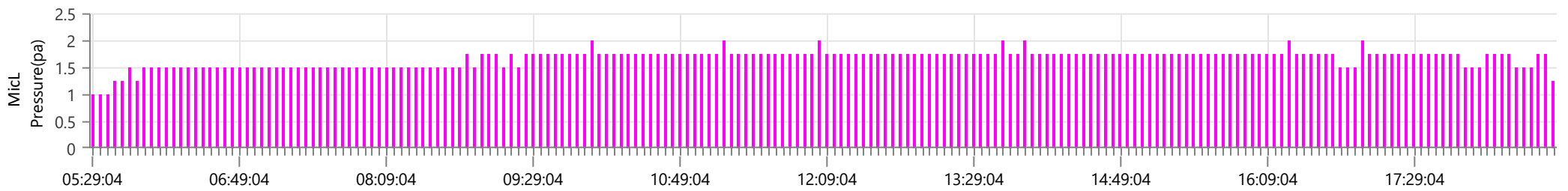
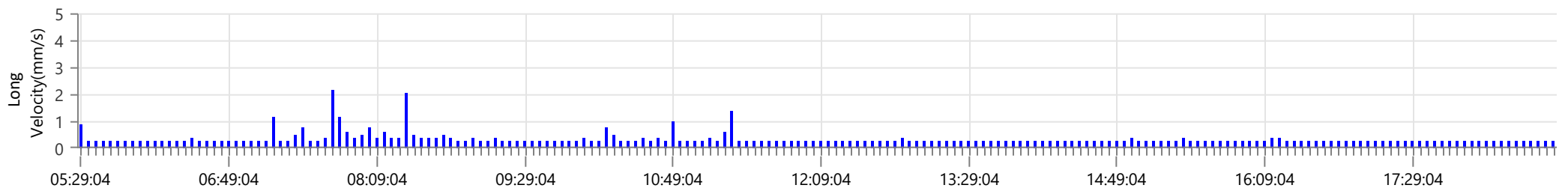
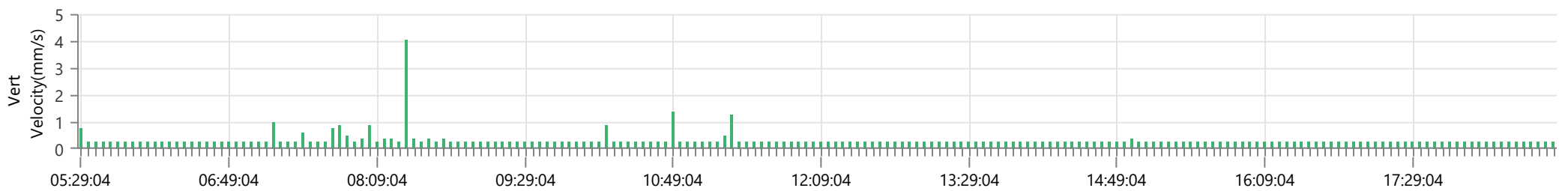
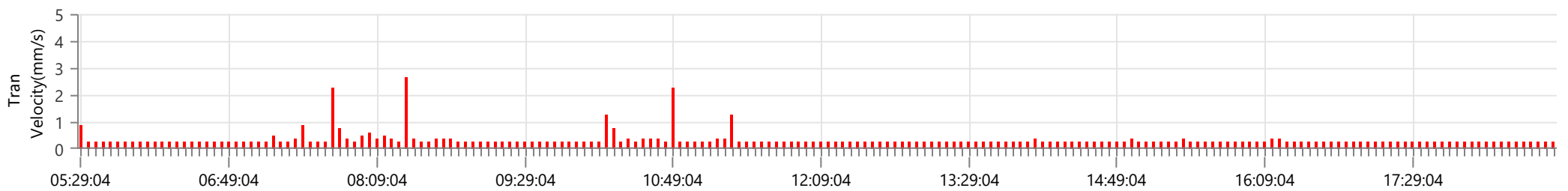
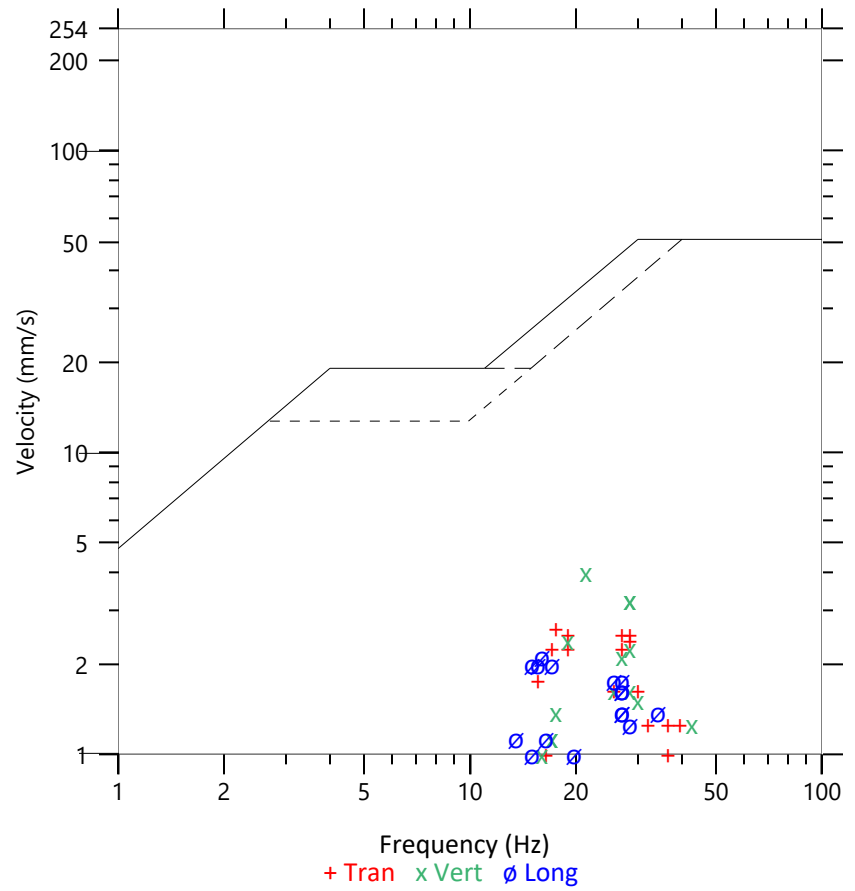
Extended Notes 51.44880 112.68244 51.44879 112.68240

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.667 mm/s	4.064 mm/s	2.159 mm/s
Zero Crossing Frequency	17.7 Hz	21.3 Hz	16.0 Hz
Date	May 27, 2023	May 27, 2023	May 27, 2023
Time	08:27:59	08:27:59	07:48:09
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.8 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.2	3.5	3.3
Peak Vector Sum	4.103 mm/s at May 27, 2023 08:27:59		

ISEE Linear Microphone
 Peak Sound Pressure Level 2.00 pa
 Date May 27, 2023
 Time 10:01:24
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 27, 2023 05:28:59
Finish May 27, 2023 18:48:11
Number of Intervals/Interval 9590.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230527052859.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

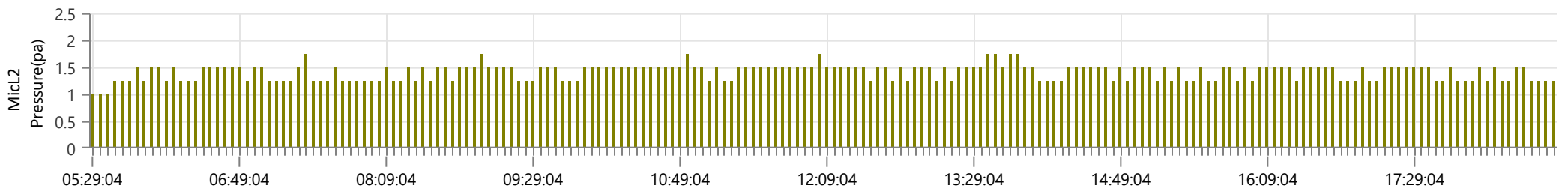
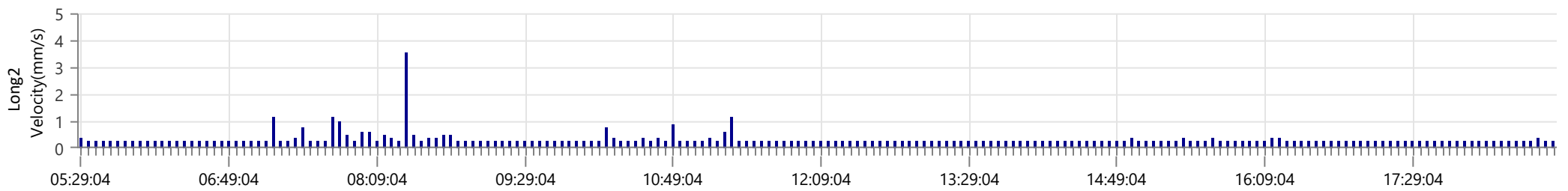
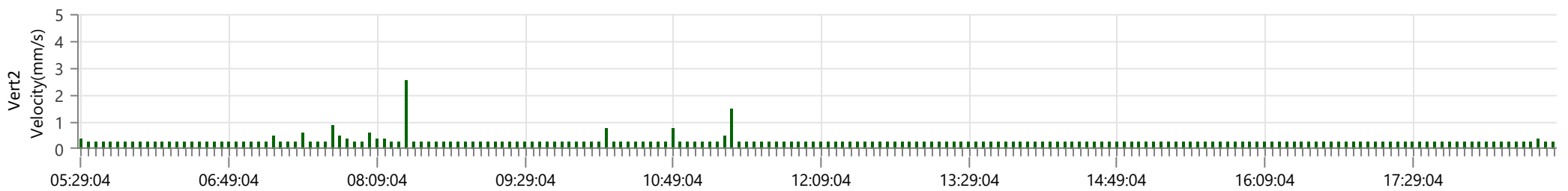
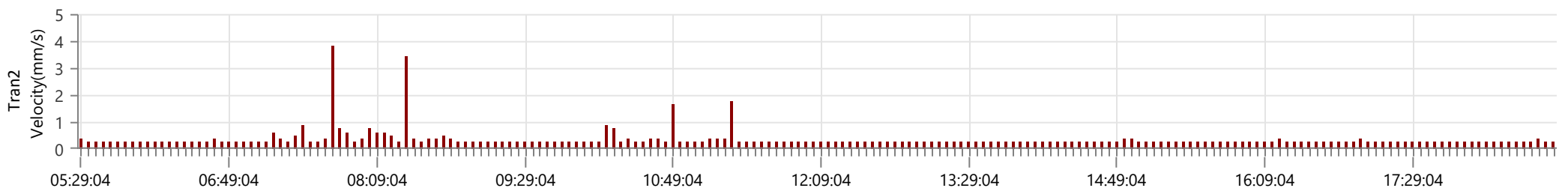
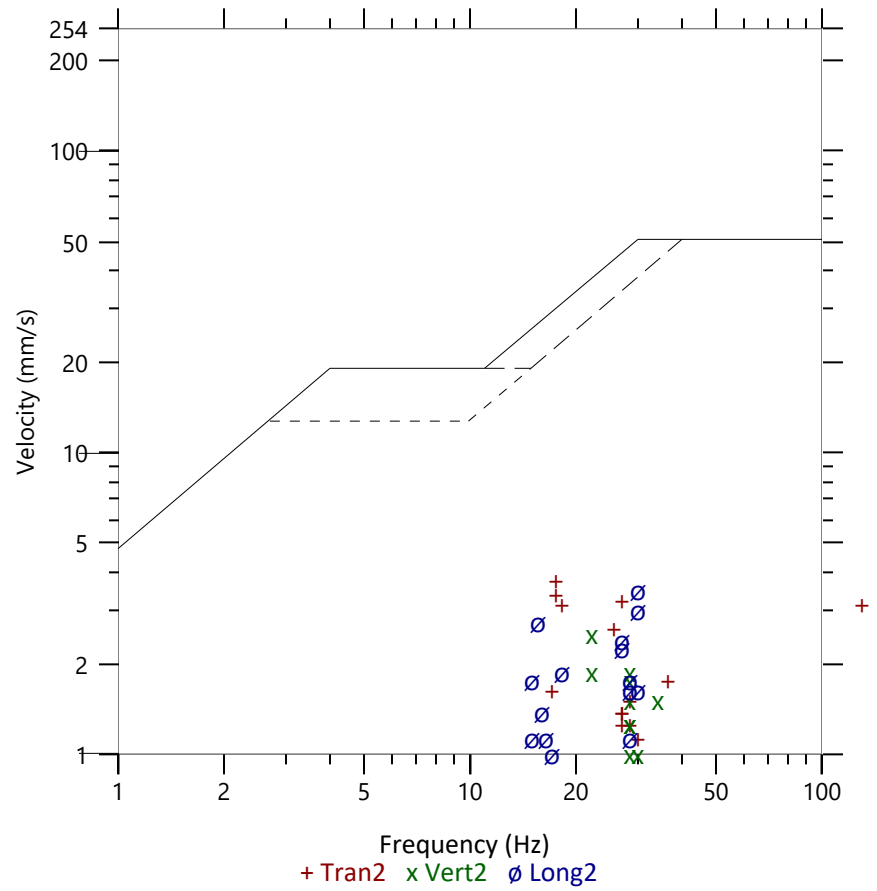
Extended Notes 51.44880 112.68244 51.44879 112.68240

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.810 mm/s	2.540 mm/s	3.556 mm/s
Zero Crossing Frequency	17.7 Hz	22.3 Hz	30.1 Hz
Date	May 27, 2023	May 27, 2023	May 27, 2023
Time	07:48:09	08:27:59	08:27:44
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.8 Hz	8.5 Hz	8.6 Hz
Overswing Ratio	3.2	3.2	4.1
Peak Vector Sum	4.782 mm/s at May 27, 2023 08:27:44		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 27, 2023
 Time 07:28:04
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 29, 2023 05:17:29
Finish May 29, 2023 19:12:18
Number of Intervals/Interval 10017.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

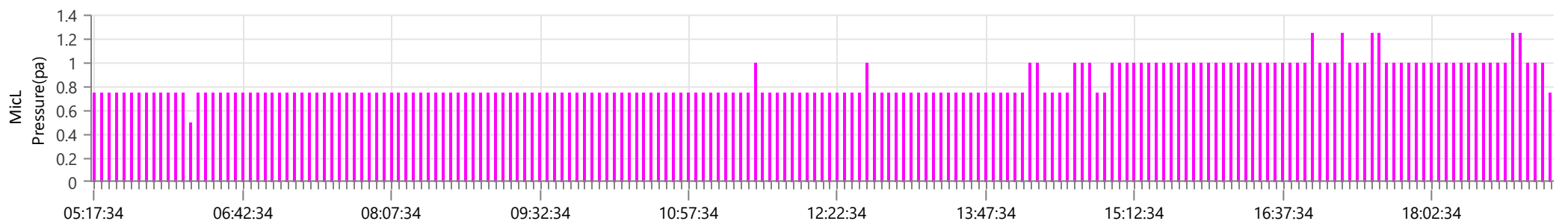
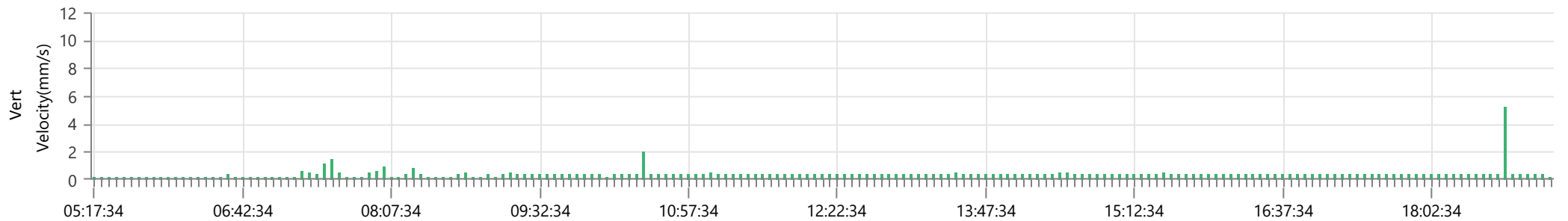
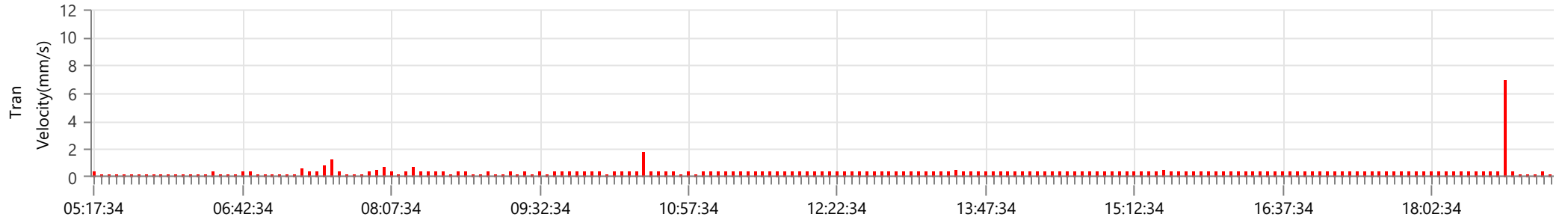
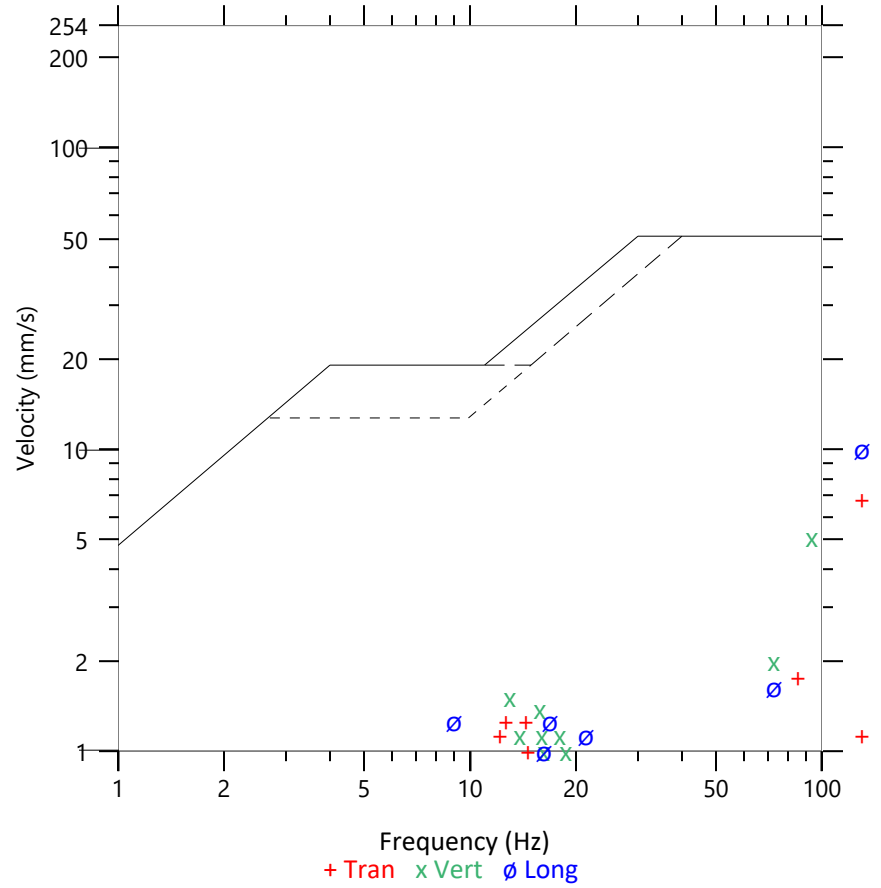
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230529051729.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	6.985 mm/s	5.207 mm/s	10.160 mm/s
Zero Crossing Frequency	>100 Hz	93.1 Hz	>100 Hz
Date	May 29, 2023	May 29, 2023	May 29, 2023
Time	18:48:49	18:48:49	18:48:49
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.5	4.0	3.9
Peak Vector Sum	11.116 mm/s at May 29, 2023 18:48:49		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 29, 2023
 Time 16:55:49
 Zero Crossing Frequency 78.8 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 29, 2023 05:17:29
Finish May 29, 2023 19:12:18
Number of Intervals/Interval 10017.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

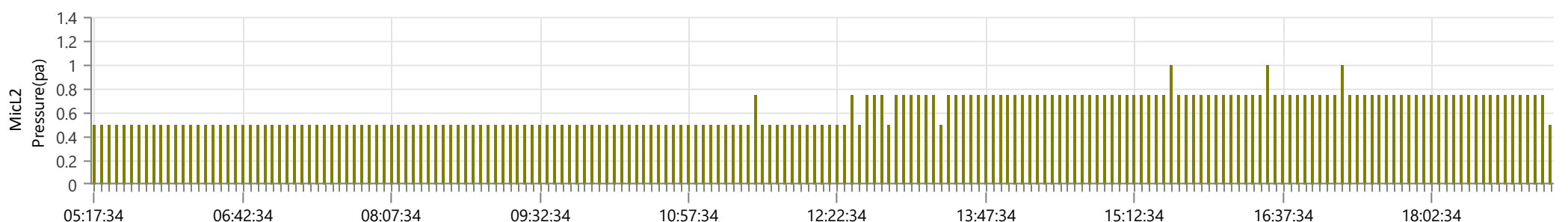
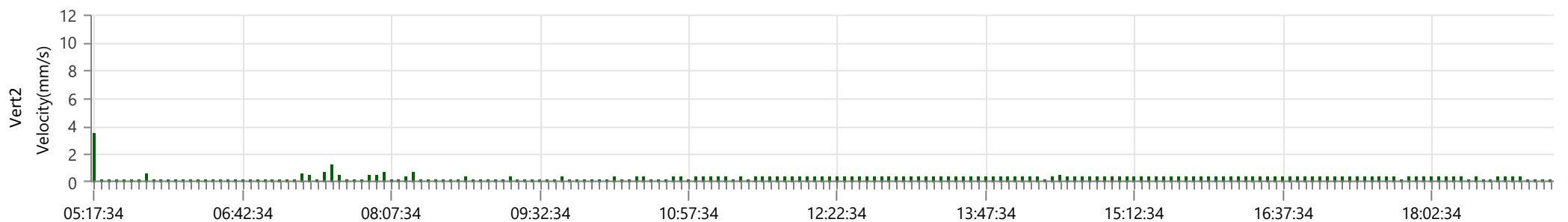
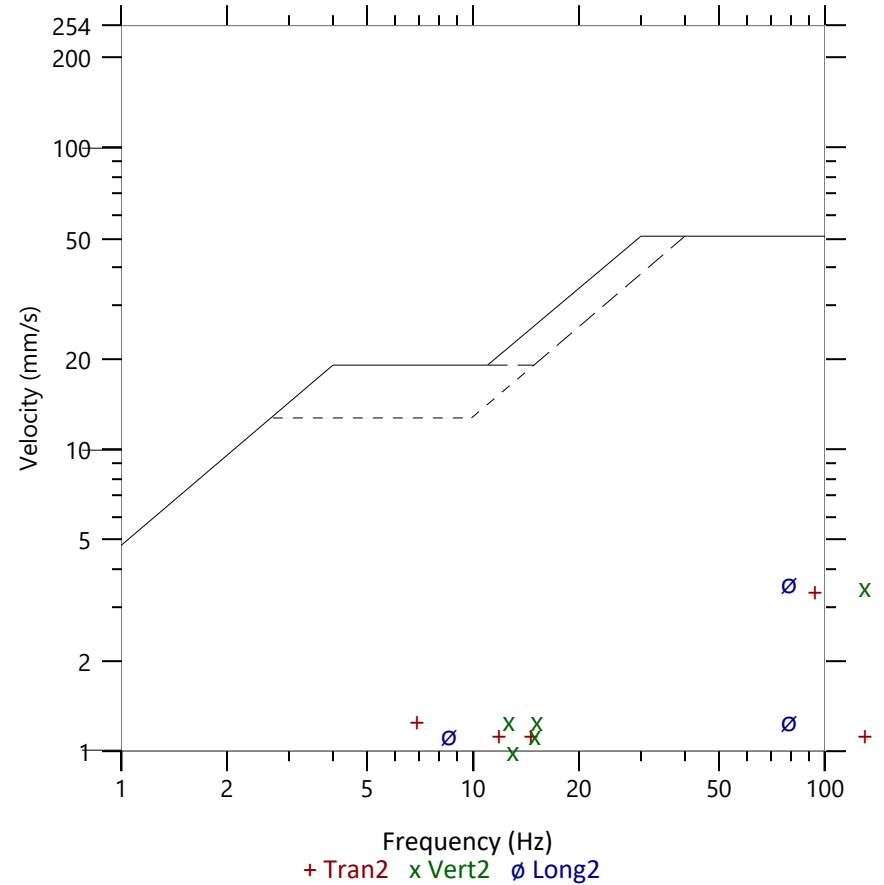
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230529051729.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.429 mm/s	3.556 mm/s	3.683 mm/s
Zero Crossing Frequency	93.1 Hz	>100 Hz	78.8 Hz
Date	May 29, 2023	May 29, 2023	May 29, 2023
Time	05:18:04	05:18:04	05:18:04
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	10.6 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.4	3.5	3.4
Peak Vector Sum	4.933 mm/s at May 29, 2023 05:18:04		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date May 29, 2023
 Time 15:34:54
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 29, 2023 05:26:37
Finish May 29, 2023 19:15:35
Number of Intervals/Interval 9947.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230529052637.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

Extended Notes 51.44880 112.68244 51.44879 112.68240

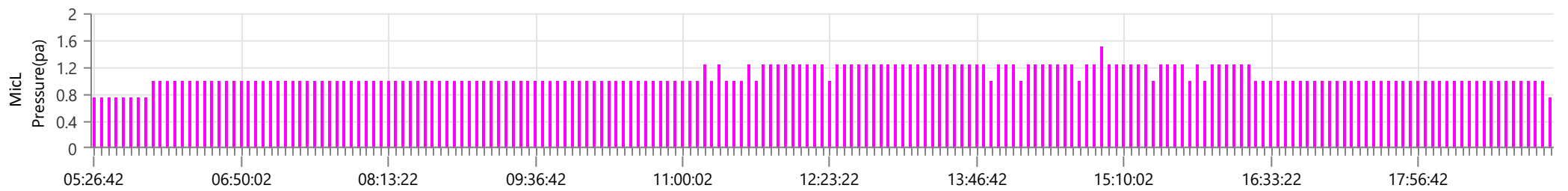
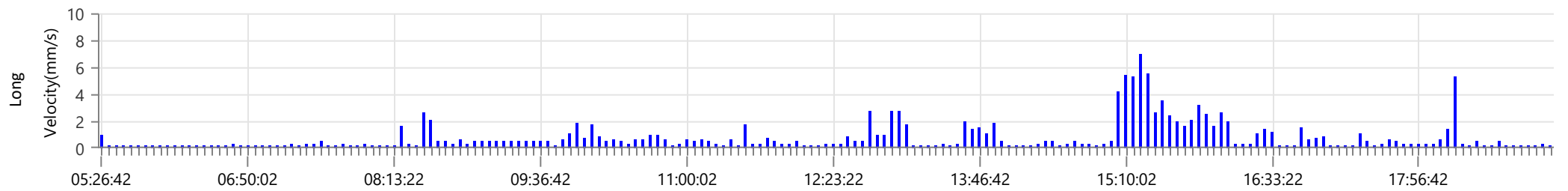
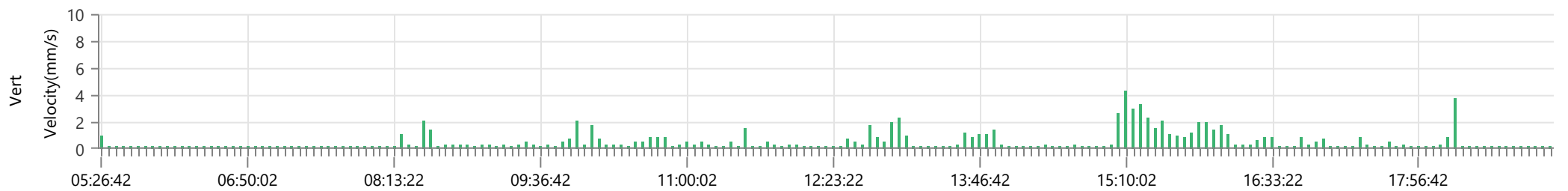
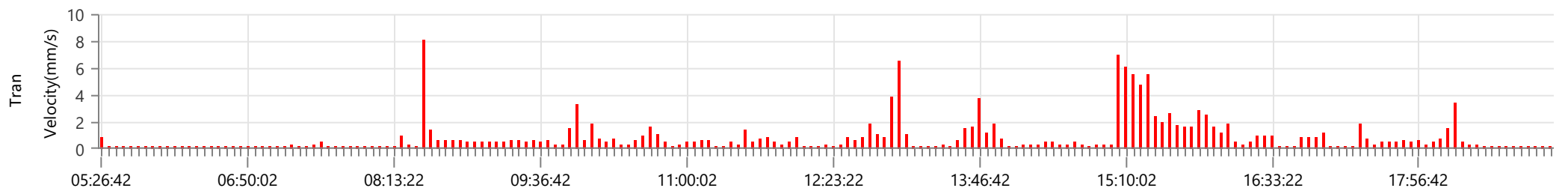
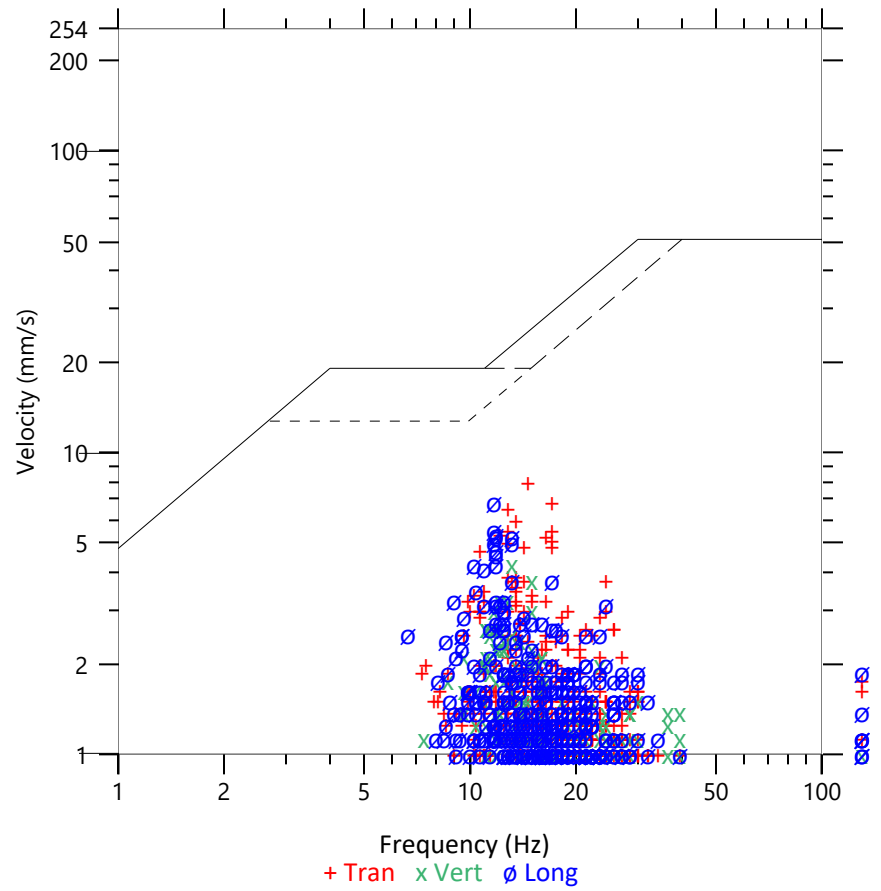
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	8.128 mm/s	4.318 mm/s	6.985 mm/s
Zero Crossing Frequency	14.6 Hz	13.1 Hz	11.6 Hz
Date	May 29, 2023	May 29, 2023	May 29, 2023
Time	08:32:42	15:13:37	15:18:42
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.7 Hz	8.2 Hz
Overswing Ratio	3.2	3.5	3.3

Peak Vector Sum 8.294 mm/s at May 29, 2023 08:32:42

ISEE Linear Microphone
 Peak Sound Pressure Level 1.50 pa
 Date May 29, 2023
 Time 15:01:17
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 29, 2023 05:26:37
Finish May 29, 2023 19:15:35
Number of Intervals/Interval 9947.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230529052637.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: DL
General: frontofhouse facing dike

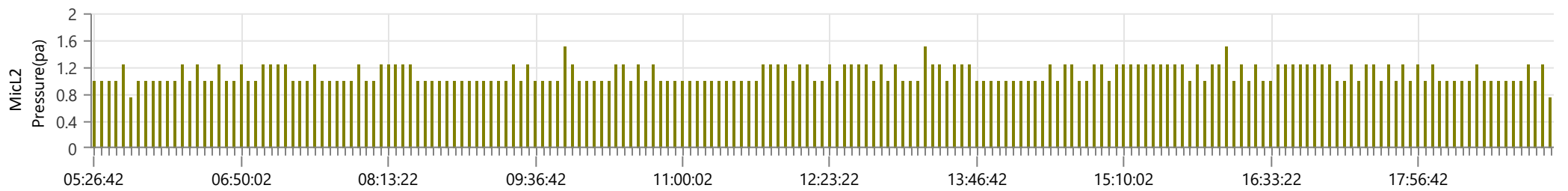
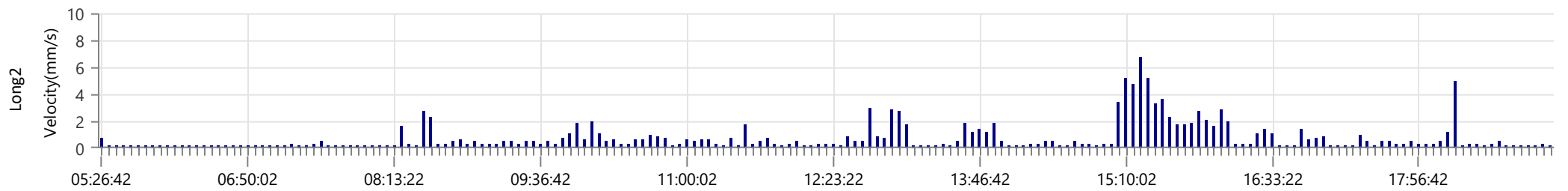
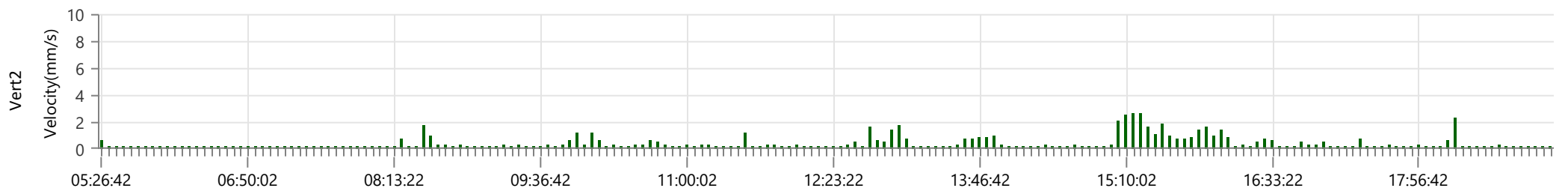
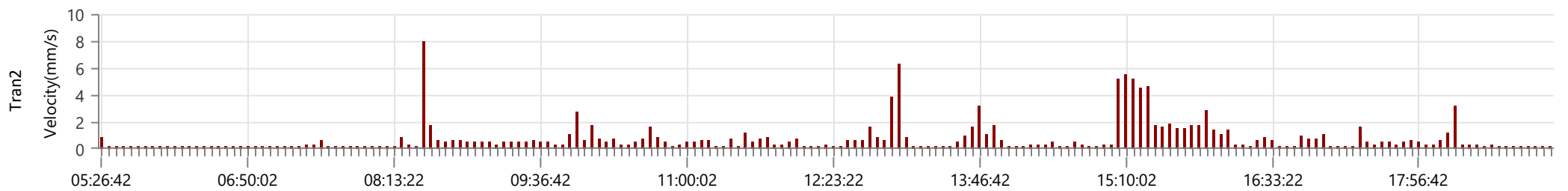
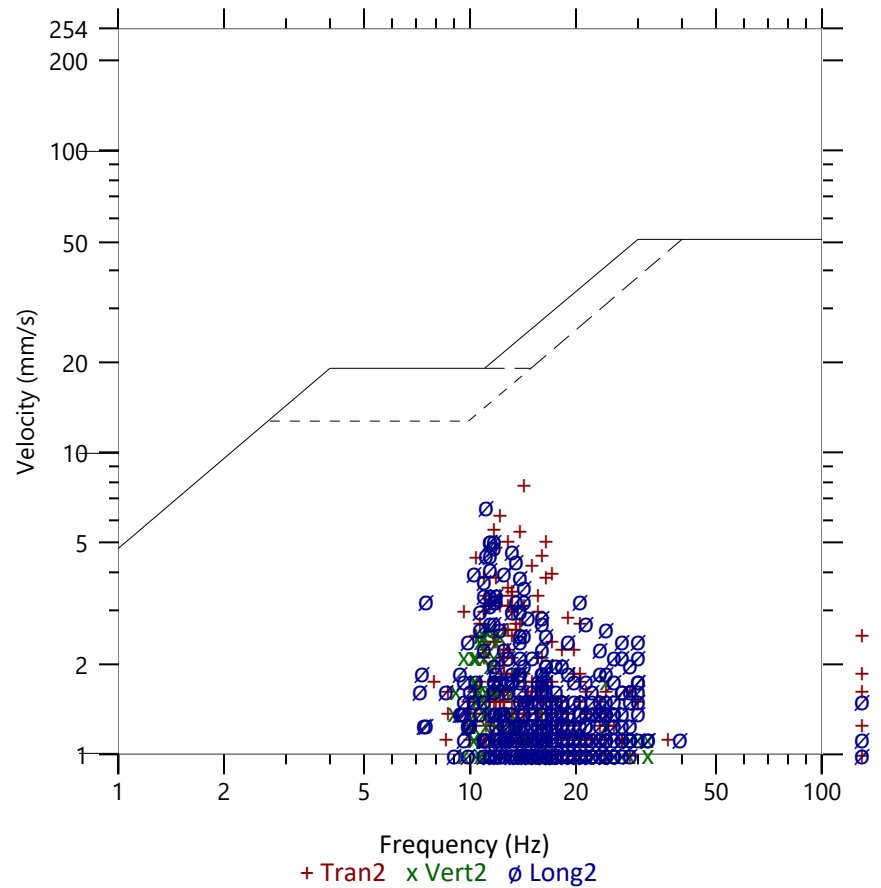
Extended Notes 51.44880 112.68244 51.44879 112.68240

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	8.001 mm/s	2.667 mm/s	6.731 mm/s
Zero Crossing Frequency	14.2 Hz	11.1 Hz	11.1 Hz
Date	May 29, 2023	May 29, 2023	May 29, 2023
Time	08:32:42	15:17:32	15:18:42
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	8.5 Hz	8.1 Hz
Overswing Ratio	3.2	3.1	3.5
Peak Vector Sum	8.046 mm/s at May 29, 2023 08:32:42		

ISEE Linear Microphone
Peak Sound Pressure Level 1.50 pa
Date May 29, 2023
Time 09:53:42
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 30, 2023 04:54:38
Finish May 30, 2023 19:10:06
Number of Intervals/Interval 10265.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

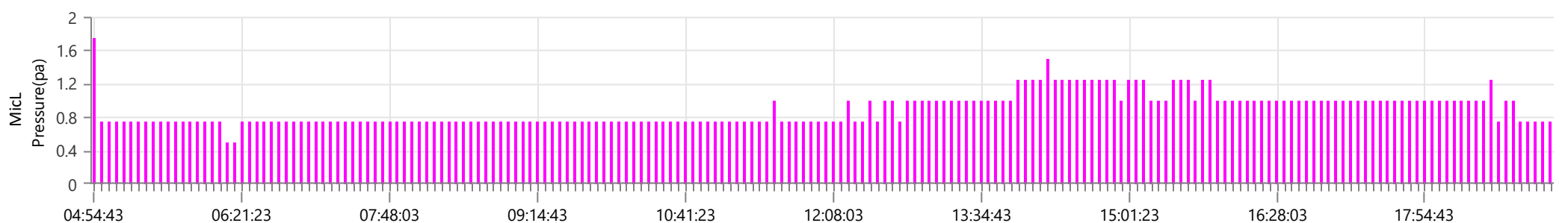
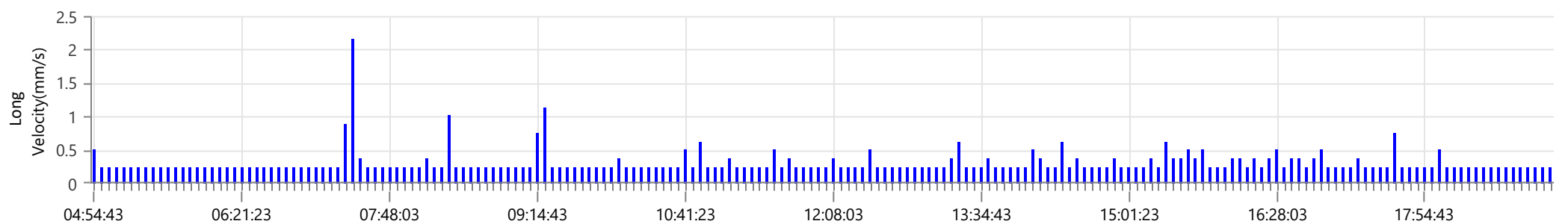
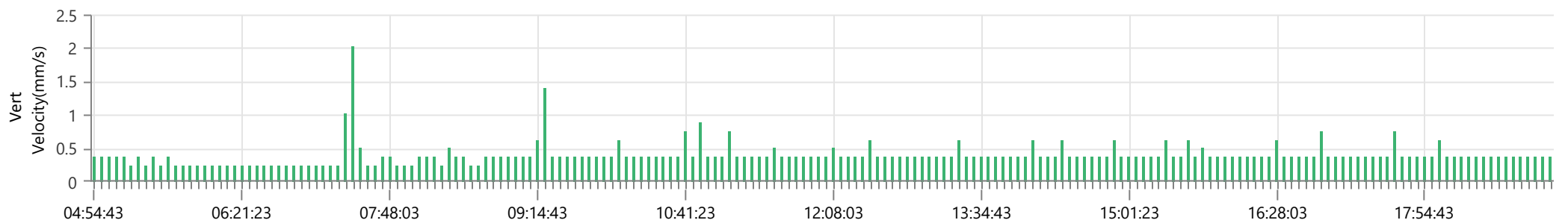
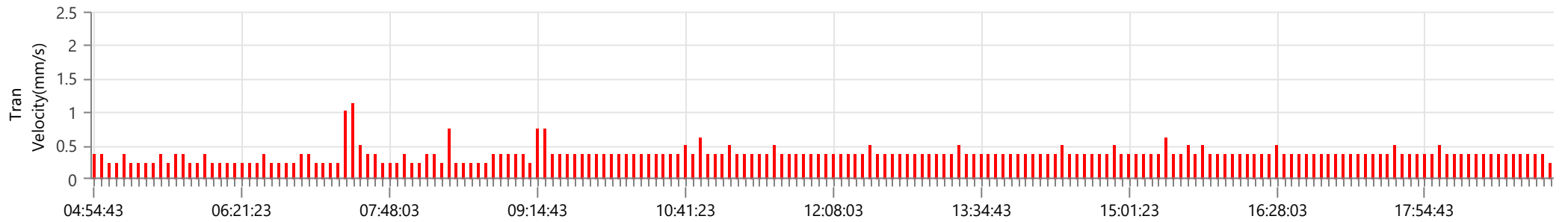
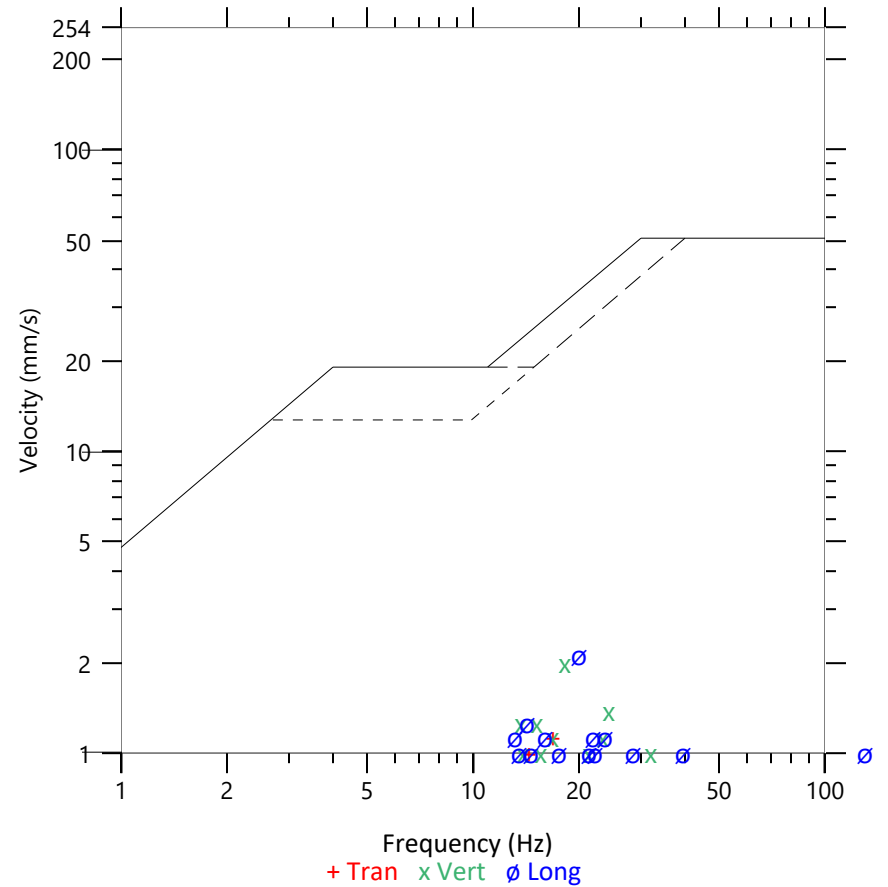
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230530045438.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	2.032 mm/s	2.159 mm/s
Zero Crossing Frequency	16.8 Hz	18.3 Hz	20.1 Hz
Date	May 30, 2023	May 30, 2023	May 30, 2023
Time	07:30:03	07:27:28	07:27:28
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.6	4.0	3.9
Peak Vector Sum	2.196 mm/s at May 30, 2023 07:27:28		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 30, 2023
 Time 04:54:48
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 30, 2023 04:54:38
Finish May 30, 2023 19:10:06
Number of Intervals/Interval 10265.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

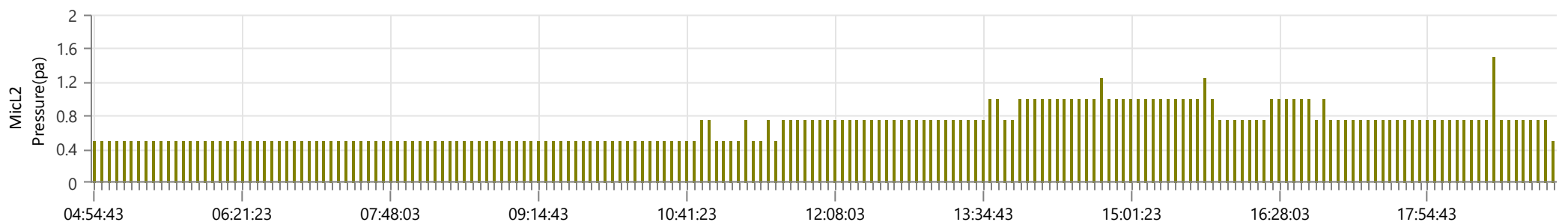
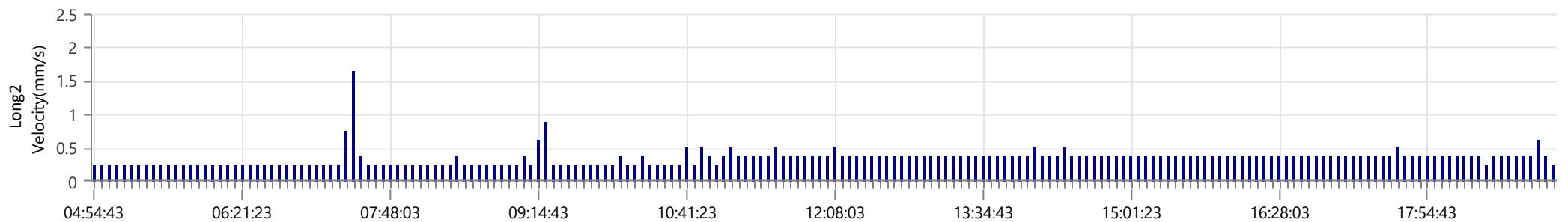
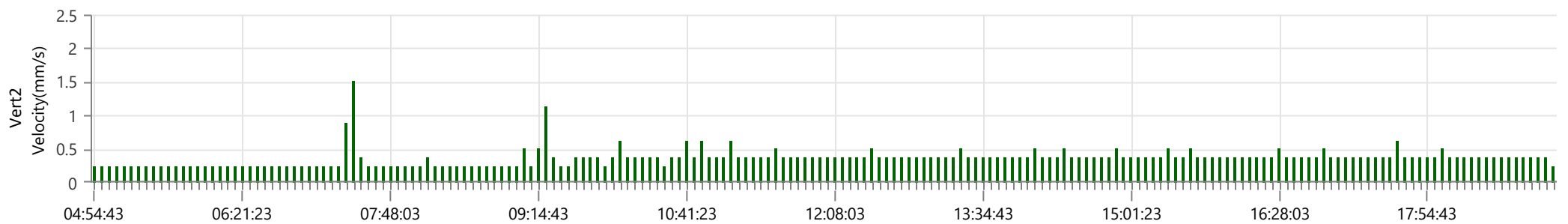
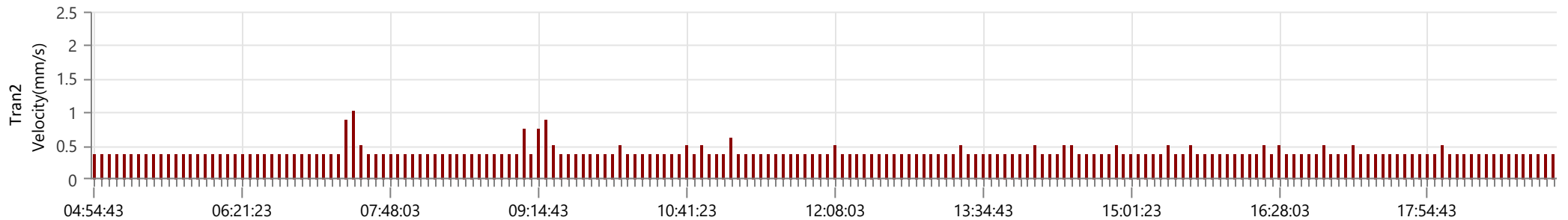
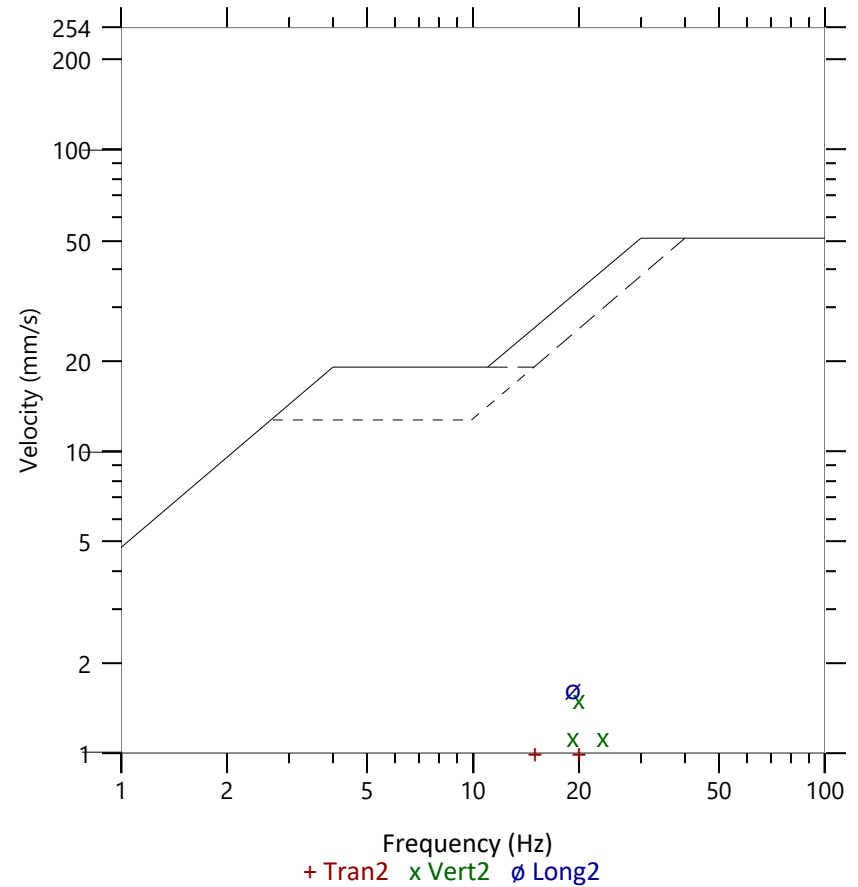
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230530045438.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.016 mm/s	1.524 mm/s	1.651 mm/s
Zero Crossing Frequency	15.1 Hz	20.1 Hz	19.3 Hz
Date	May 30, 2023	May 30, 2023	May 30, 2023
Time	07:27:58	07:27:28	07:27:28
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	11.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.9	3.5	3.4
Peak Vector Sum	1.836 mm/s at May 30, 2023 07:27:28		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.50 pa
 Date May 30, 2023
 Time 18:34:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 30, 2023 04:59:49
Finish May 30, 2023 19:13:10
Number of Intervals/Interval 10240.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

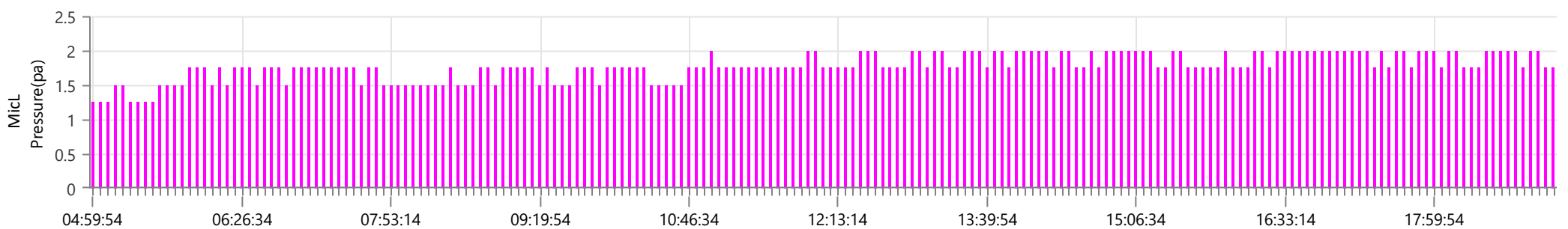
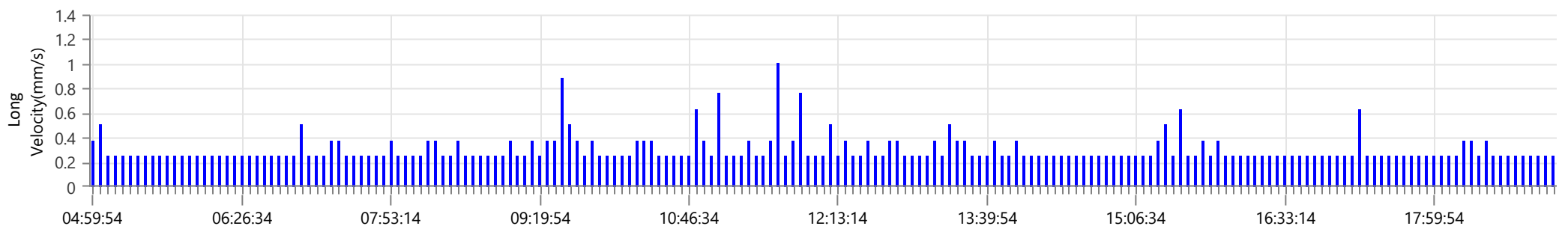
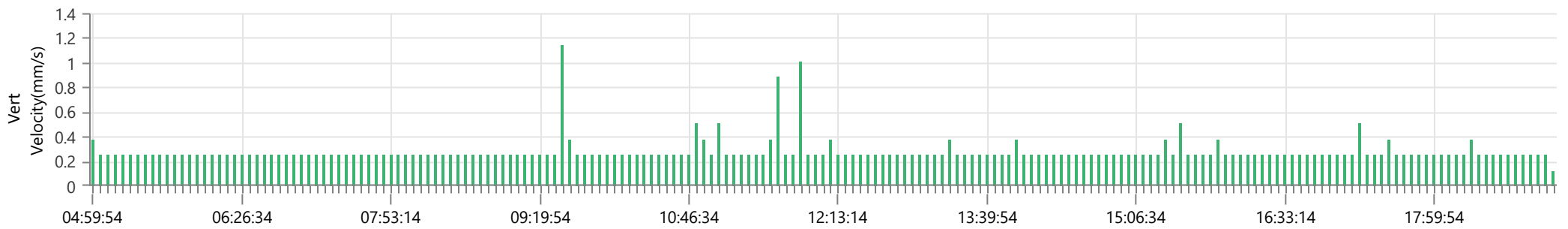
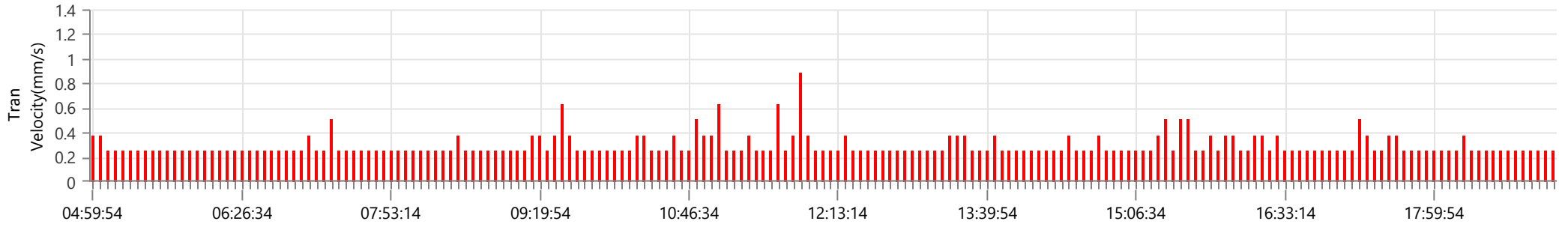
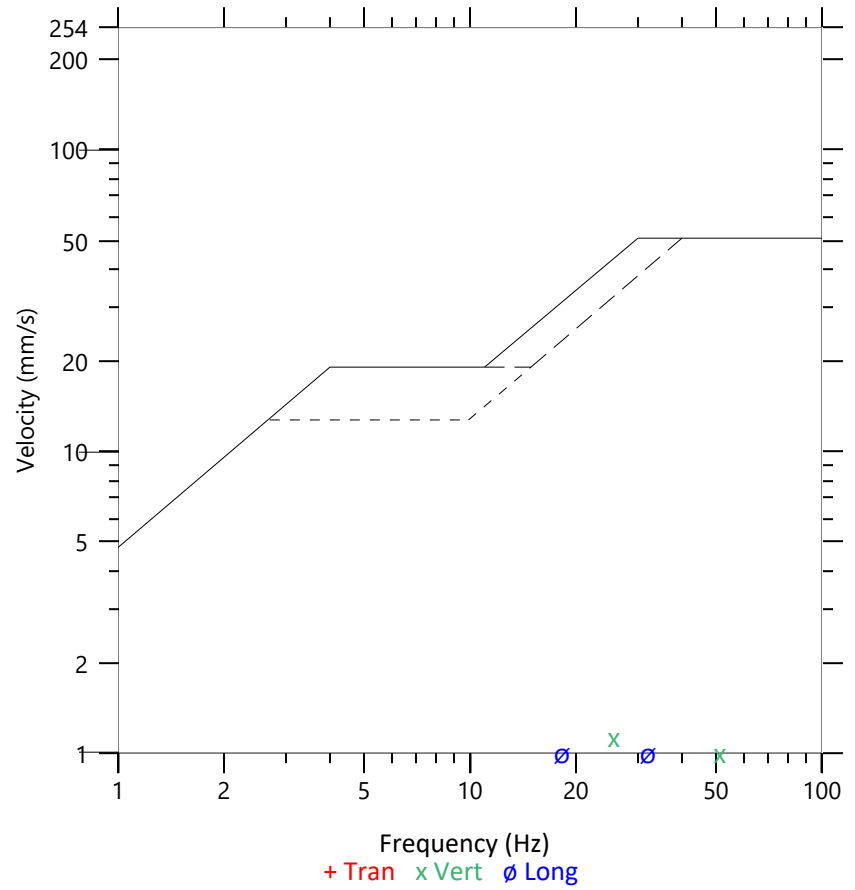
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230530045949.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.889 mm/s	1.143 mm/s	1.016 mm/s
Zero Crossing Frequency	39.4 Hz	25.6 Hz	18.3 Hz
Date	May 30, 2023	May 30, 2023	May 30, 2023
Time	11:54:59	09:33:54	11:39:54
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	8.2 Hz
Overswing Ratio	3.3	3.5	3.2
Peak Vector Sum	1.332 mm/s at May 30, 2023 09:33:54		

ISEE Linear Microphone
 Peak Sound Pressure Level 2.00 pa
 Date May 30, 2023
 Time 11:01:09
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 30, 2023 04:59:49
Finish May 30, 2023 19:13:10
Number of Intervals/Interval 10240.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

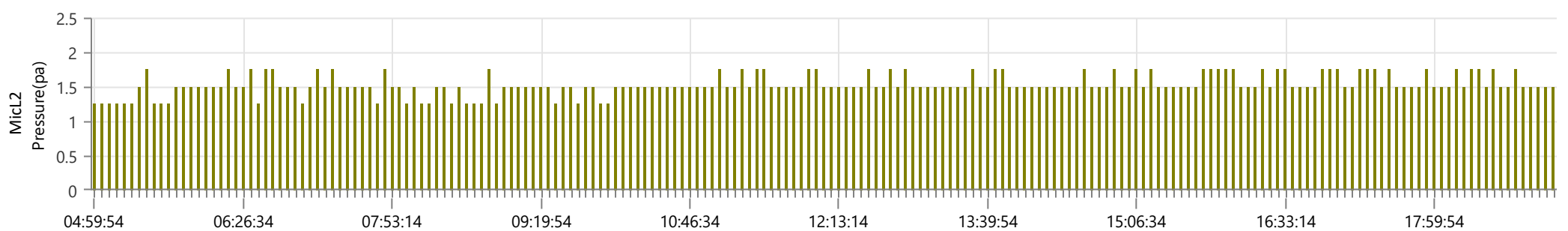
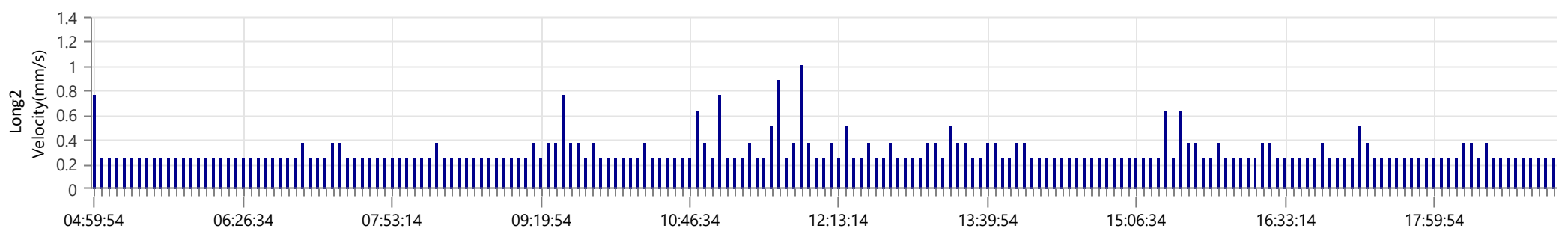
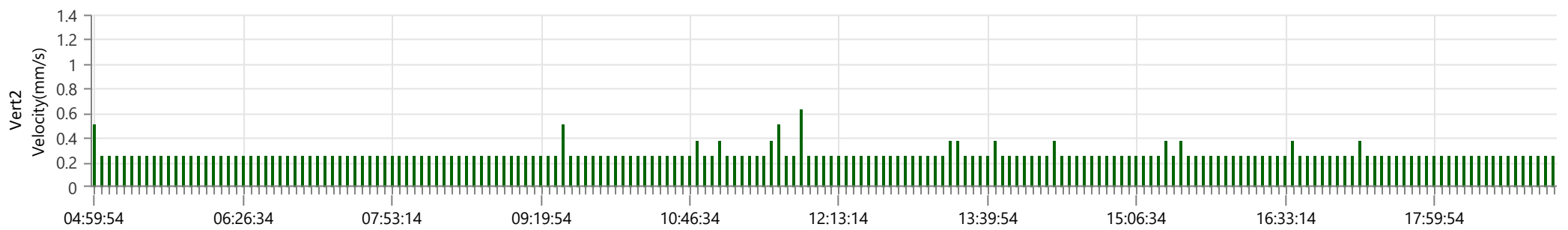
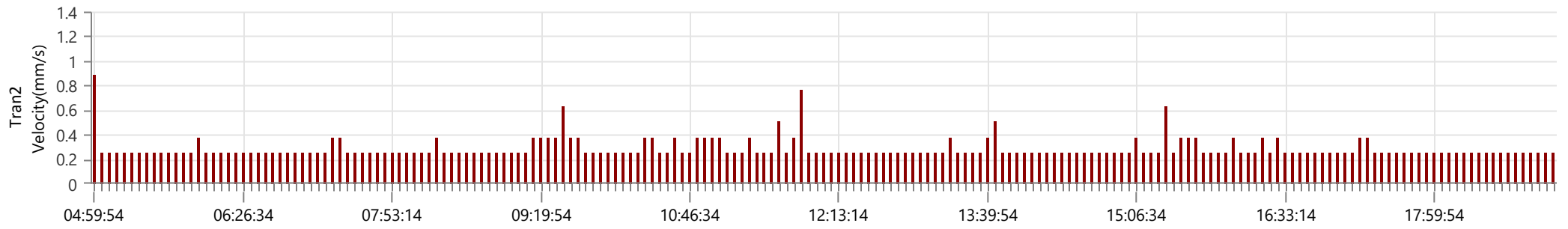
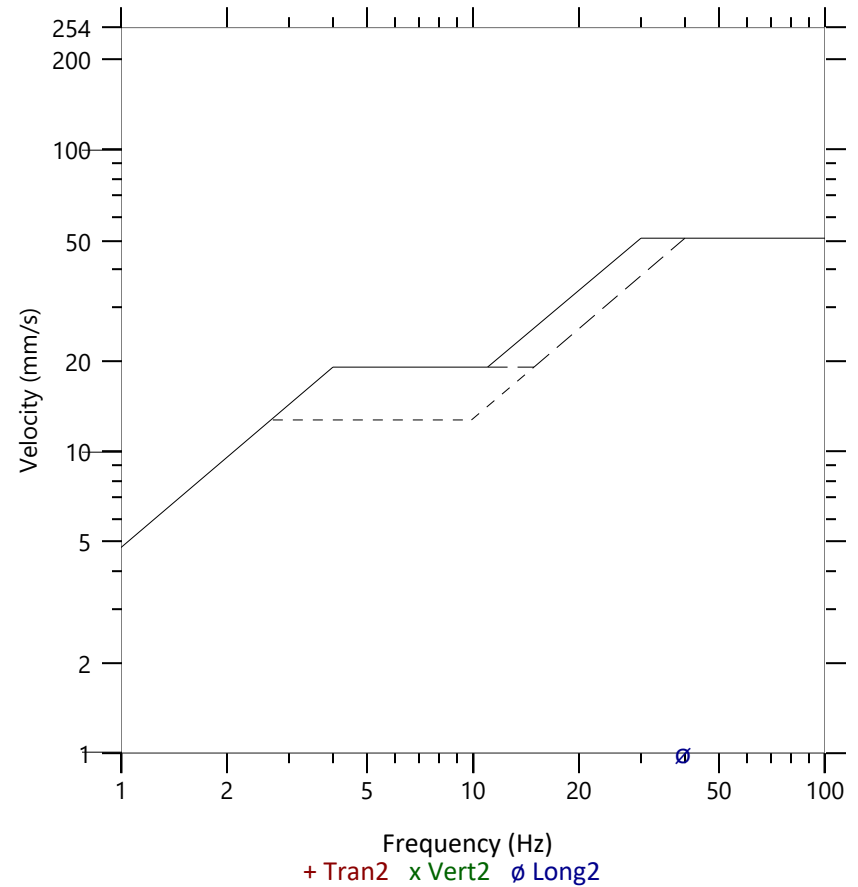
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230530045949.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.889 mm/s	0.635 mm/s	1.016 mm/s
Zero Crossing Frequency	20.5 Hz	42.7 Hz	39.4 Hz
Date	May 30, 2023	May 30, 2023	May 30, 2023
Time	05:02:04	11:54:59	11:55:04
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	10.3 Hz	8.5 Hz	8.2 Hz
Overswing Ratio	4.9	3.2	3.5
Peak Vector Sum	1.198 mm/s at May 30, 2023 11:55:04		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.75 pa
 Date May 30, 2023
 Time 05:33:54
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 31, 2023 04:47:09
Finish May 31, 2023 18:49:19
Number of Intervals/Interval 10106.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

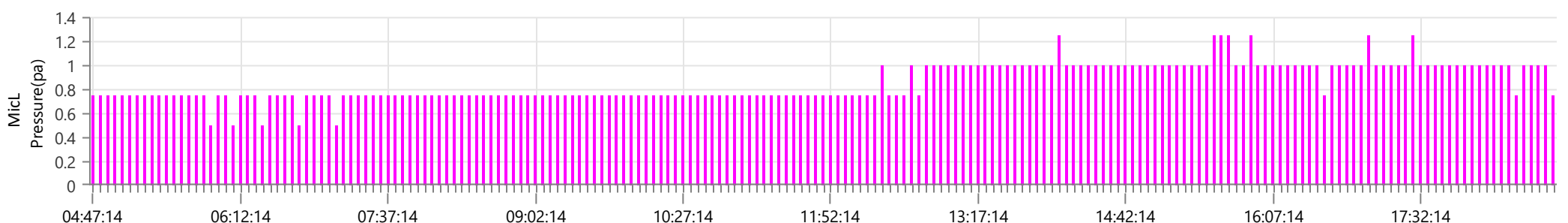
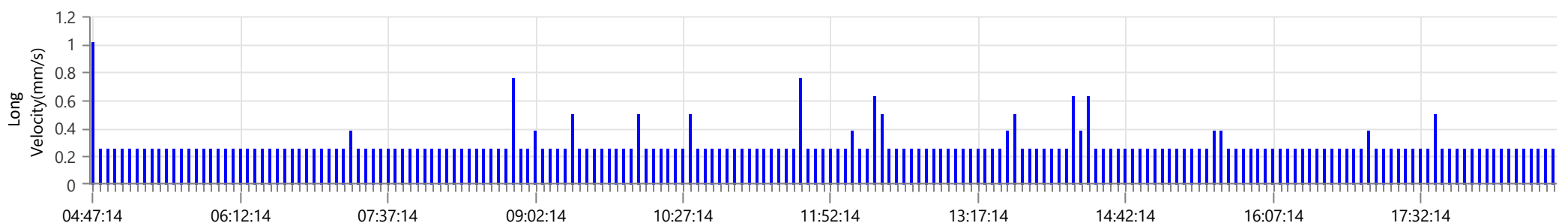
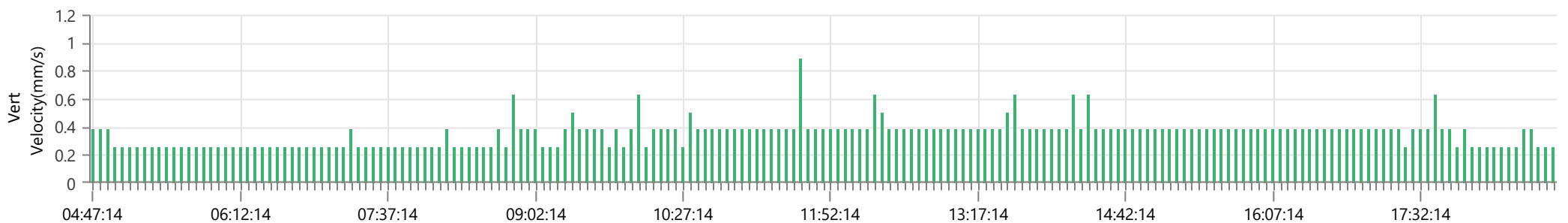
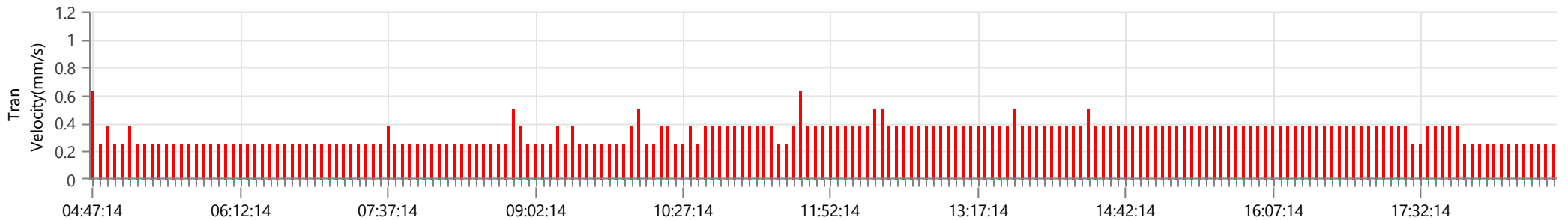
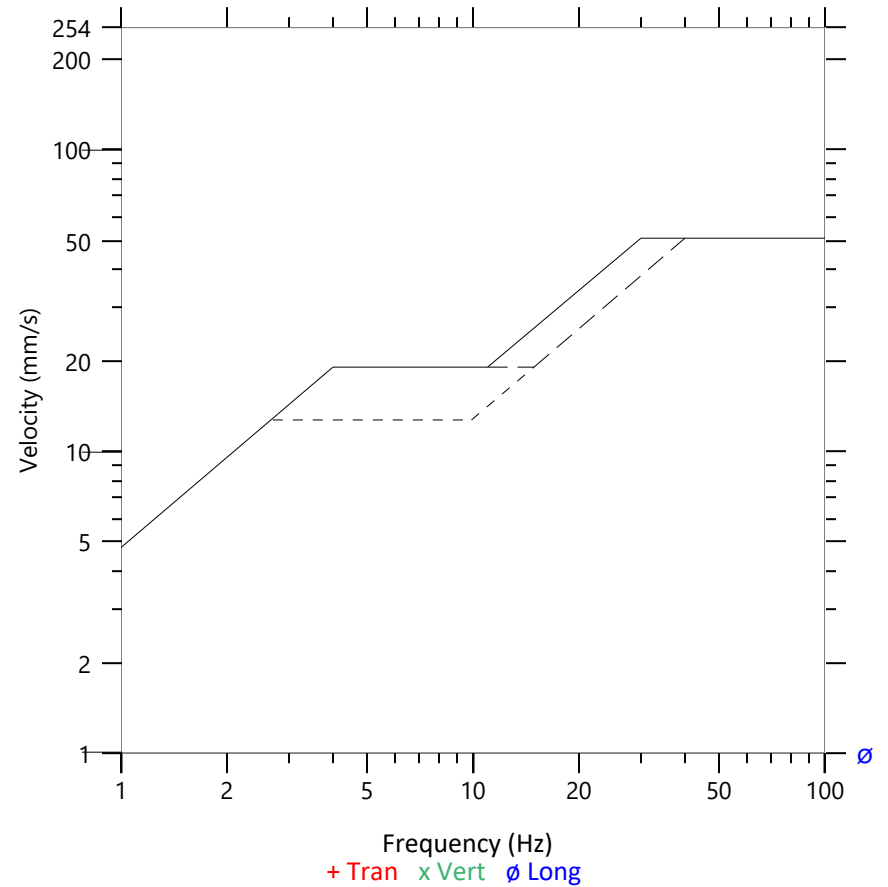
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230531044709.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	0.889 mm/s	1.016 mm/s
Zero Crossing Frequency	>100 Hz	30.1 Hz	>100 Hz
Date	May 31, 2023	May 31, 2023	May 31, 2023
Time	04:47:39	11:37:49	04:47:39
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.6	4.1	3.9
Peak Vector Sum	1.198 mm/s at May 31, 2023 04:47:39		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 31, 2023
 Time 14:05:14
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 31, 2023 04:47:09
Finish May 31, 2023 18:49:19
Number of Intervals/Interval 10106.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

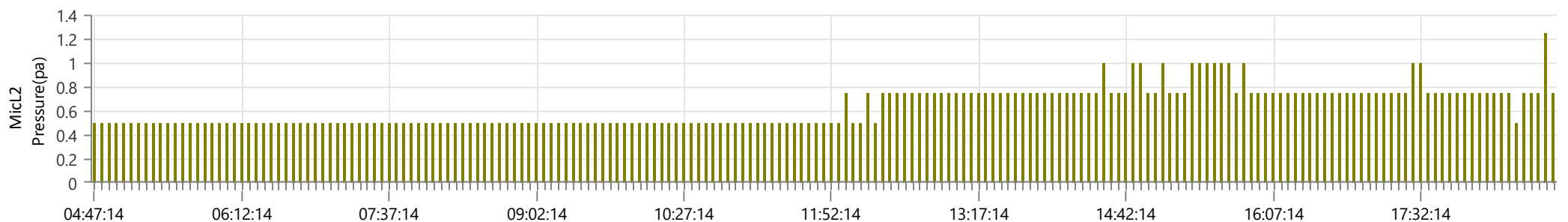
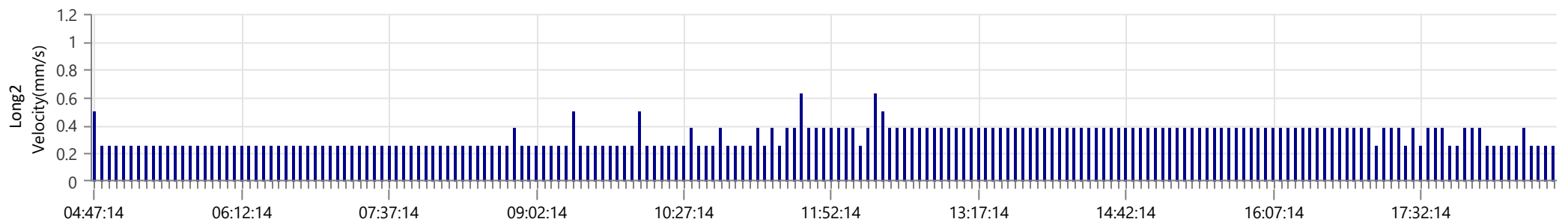
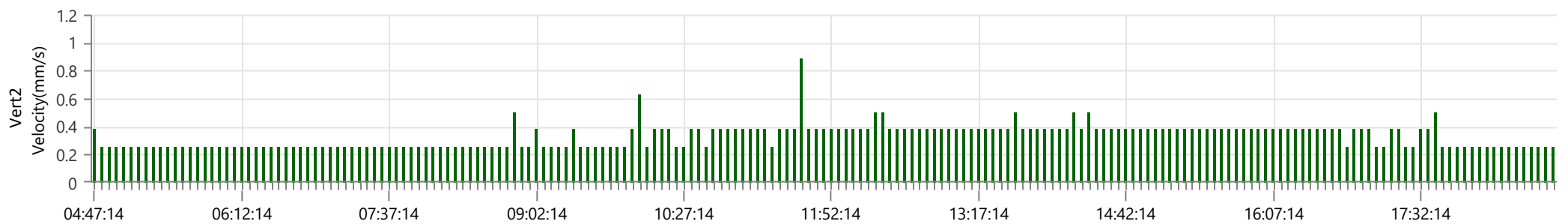
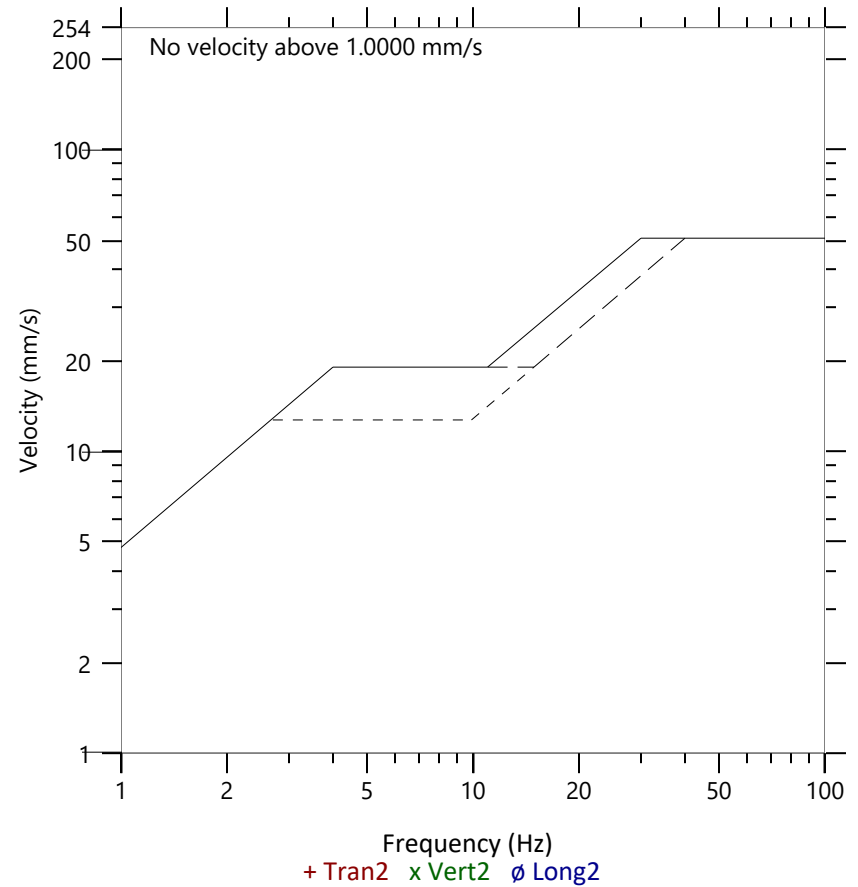
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230531044709.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	0.889 mm/s	0.635 mm/s
Zero Crossing Frequency	34.1 Hz	28.4 Hz	25.6 Hz
Date	May 31, 2023	May 31, 2023	May 31, 2023
Time	11:37:54	11:37:49	11:37:59
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	11.8 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	5.7	3.5	3.4
Peak Vector Sum	0.925 mm/s at May 31, 2023 11:37:49		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date May 31, 2023
 Time 18:45:29
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 31, 2023 04:54:47
Finish May 31, 2023 18:52:51
Number of Intervals/Interval 10056.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

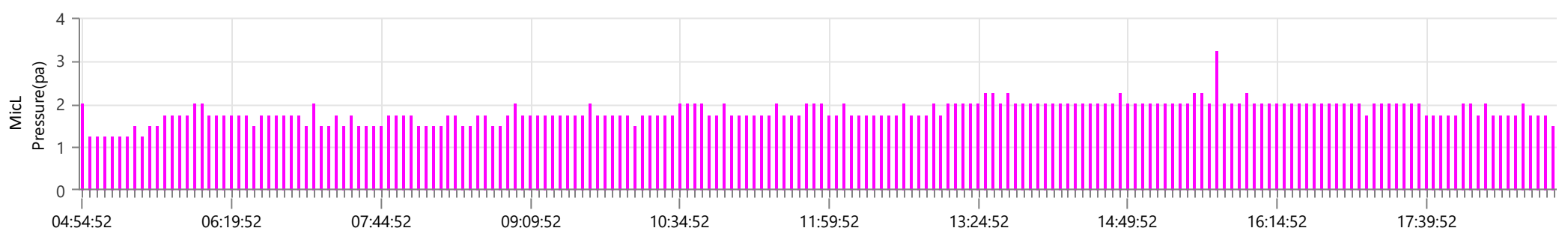
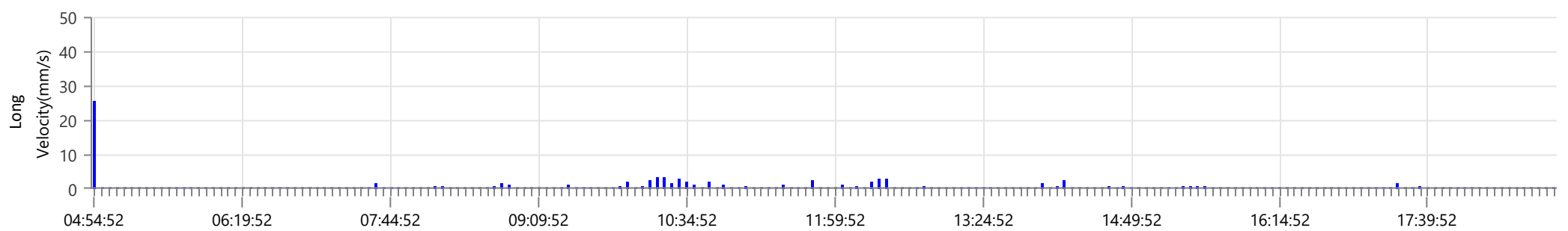
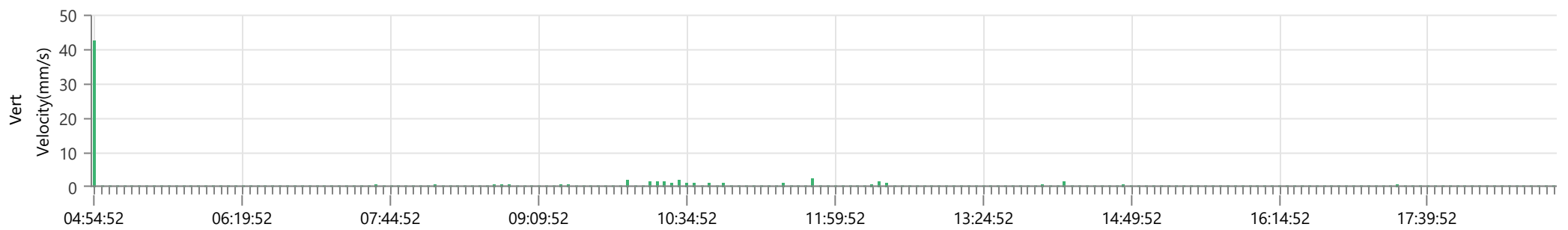
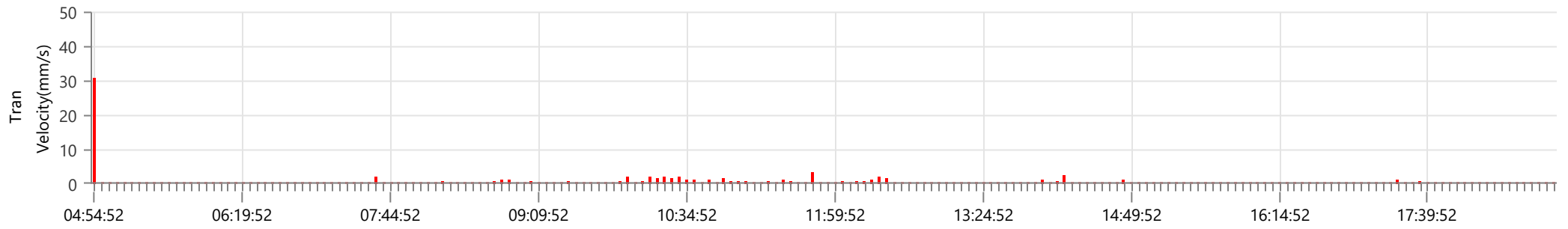
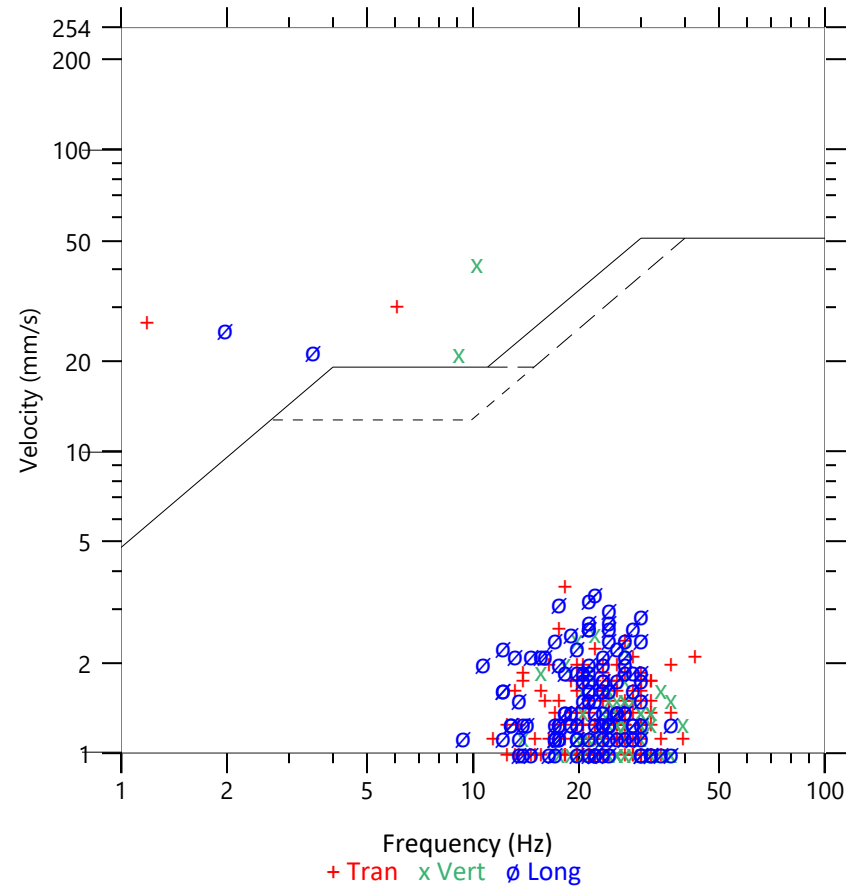
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230531045447.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	30.988 mm/s	42.672 mm/s	25.654 mm/s
Zero Crossing Frequency	6.1 Hz	10.2 Hz	2.0 Hz
Date	May 31, 2023	May 31, 2023	May 31, 2023
Time	04:55:02	04:55:02	04:55:07
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.3	3.5	3.4
Peak Vector Sum	51.805 mm/s at May 31, 2023 04:55:02		

ISEE Linear Microphone
 Peak Sound Pressure Level 3.25 pa
 Date May 31, 2023
 Time 15:42:12
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start May 31, 2023 04:54:47
Finish May 31, 2023 18:52:51
Number of Intervals/Interval 10056.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

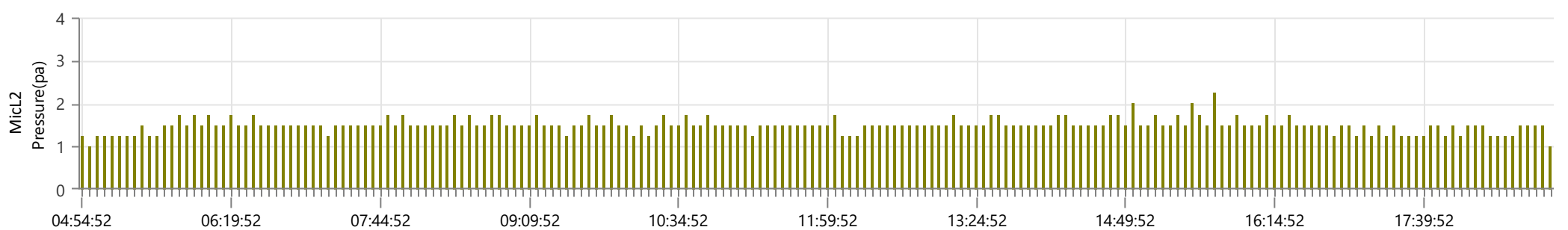
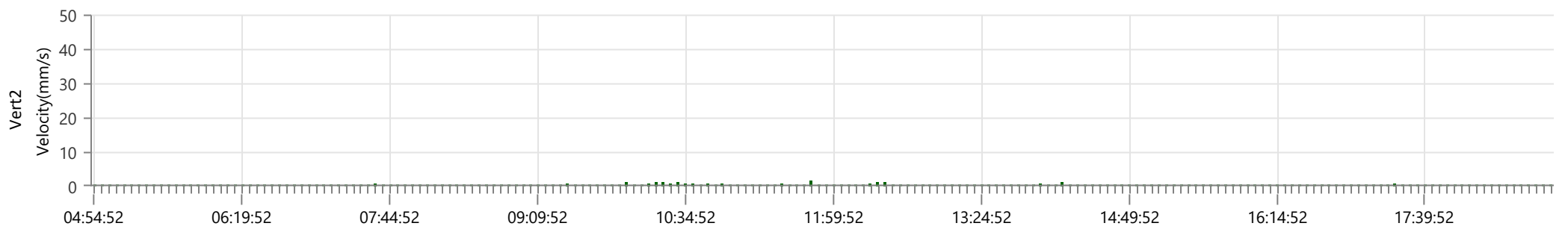
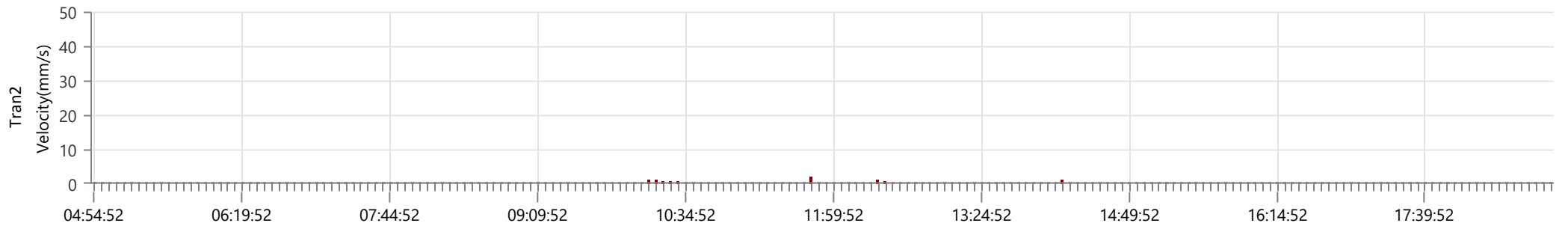
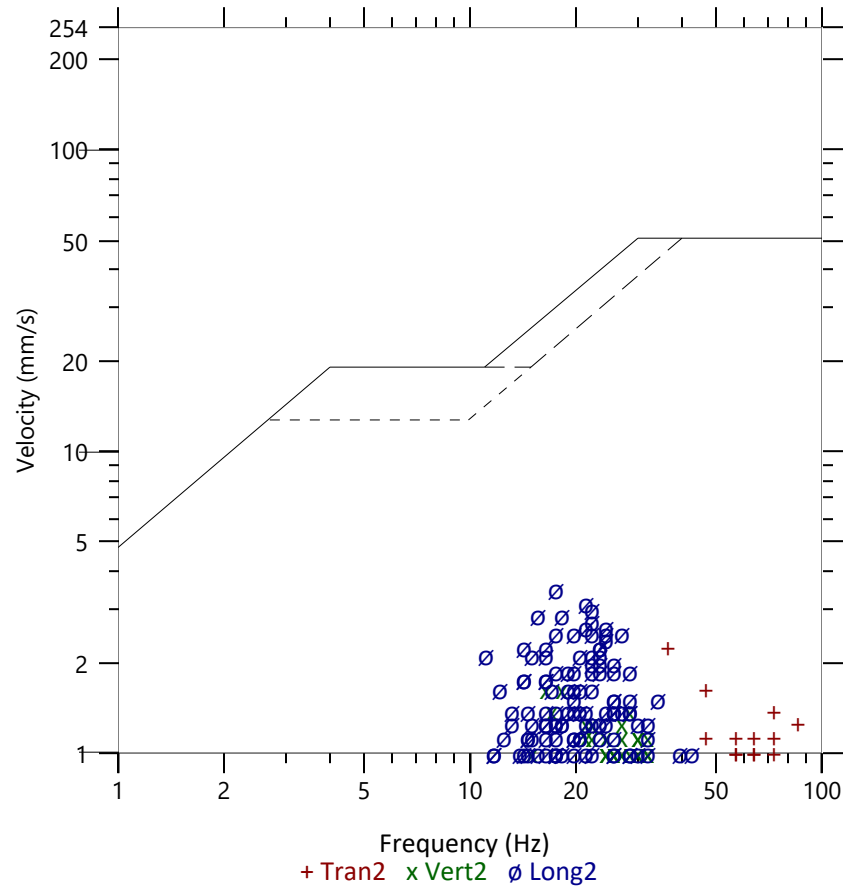
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230531045447.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.286 mm/s	1.651 mm/s	3.556 mm/s
Zero Crossing Frequency	36.6 Hz	16.5 Hz	17.7 Hz
Date	May 31, 2023	May 31, 2023	May 31, 2023
Time	11:51:12	11:51:12	10:33:37
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	13.3 Hz	8.3 Hz	8.1 Hz
Overswing Ratio	5.8	3.3	3.6
Peak Vector Sum	3.561 mm/s at May 31, 2023 10:33:37		

ISEE Linear Microphone
 Peak Sound Pressure Level 2.25 pa
 Date May 31, 2023
 Time 15:42:12
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 1, 2023 04:47:13
Finish June 1, 2023 19:21:19
Number of Intervals/Interval 10489.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

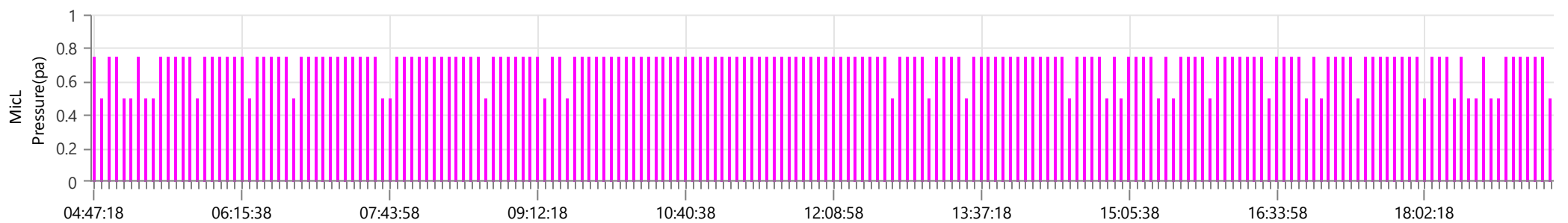
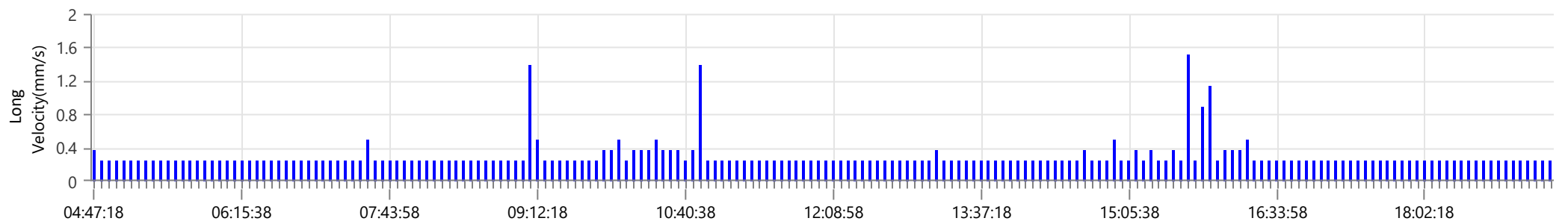
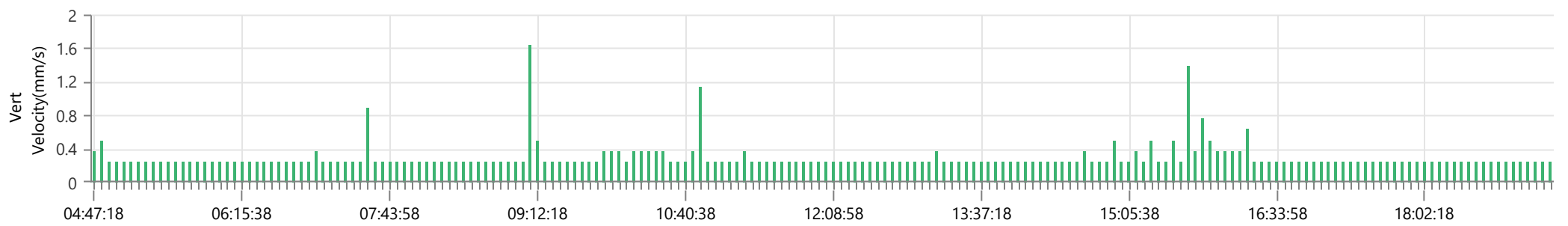
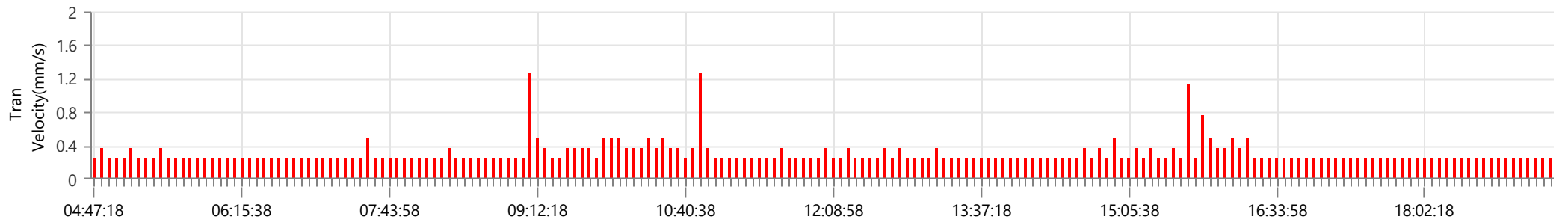
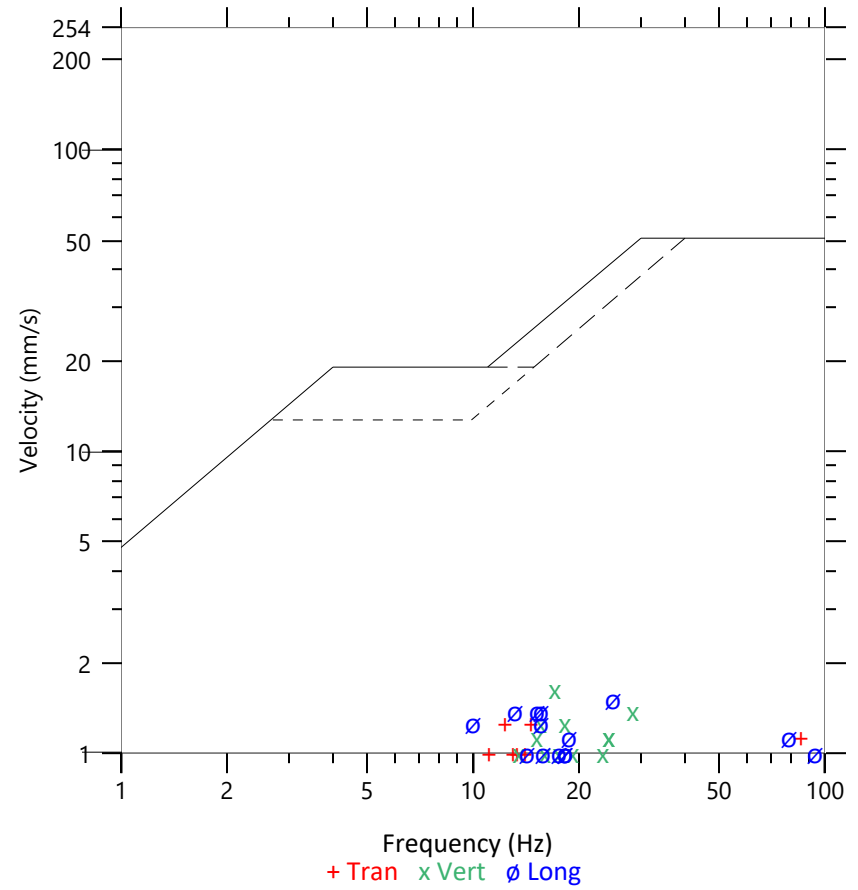
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230601044713.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.651 mm/s	1.524 mm/s
Zero Crossing Frequency	12.3 Hz	17.1 Hz	25.0 Hz
Date	Jun 1, 2023	Jun 1, 2023	Jun 1, 2023
Time	09:11:33	09:11:43	15:44:23
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	3.7	4.2	4.0
Peak Vector Sum	2.250 mm/s at June 1, 2023 15:44:23		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Jun 1, 2023
 Time 04:49:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 1, 2023 04:47:13
Finish June 1, 2023 19:21:19
Number of Intervals/Interval 10489.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

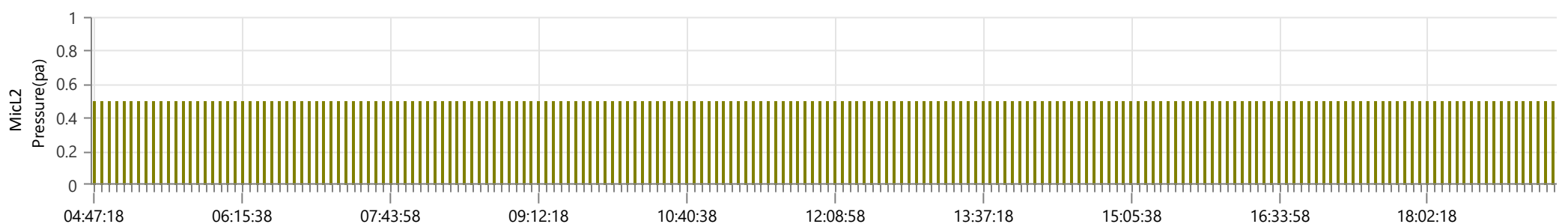
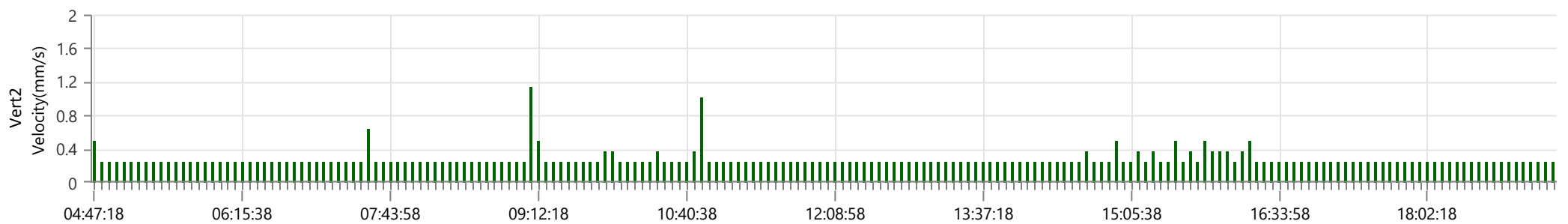
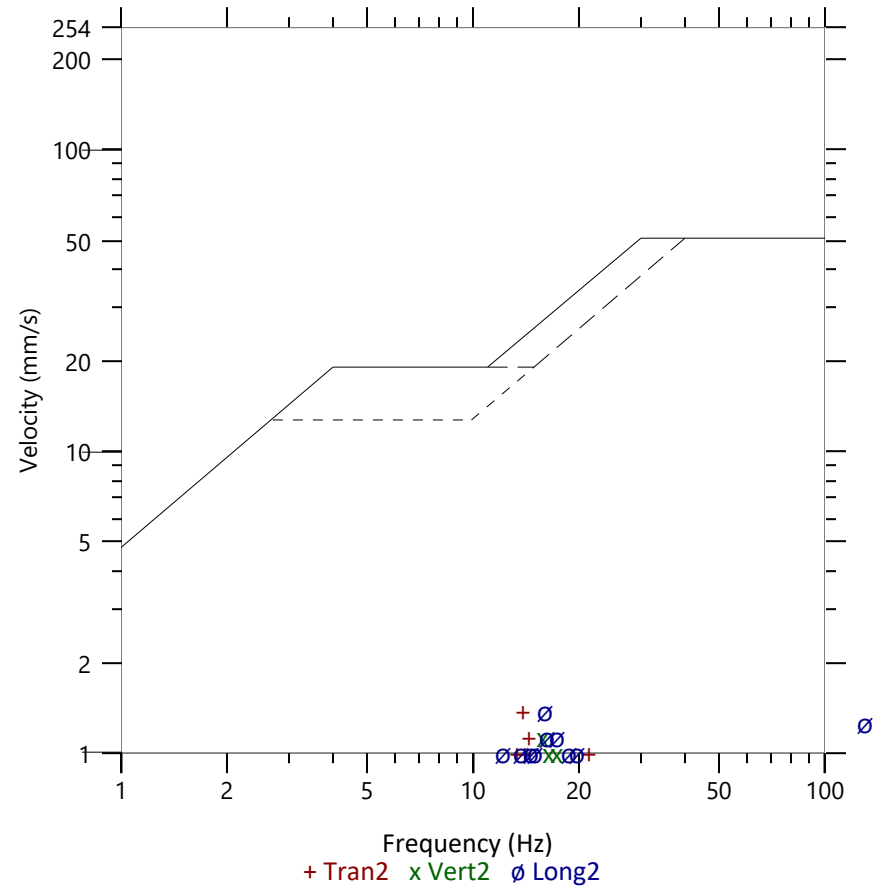
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230601044713.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.397 mm/s	1.143 mm/s	1.397 mm/s
Zero Crossing Frequency	13.8 Hz	15.8 Hz	16.0 Hz
Date	Jun 1, 2023	Jun 1, 2023	Jun 1, 2023
Time	10:50:48	09:11:43	09:11:43
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.5	3.5	3.5
Peak Vector Sum	1.611 mm/s at June 1, 2023 10:50:48		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.50 pa
 Date Jun 1, 2023
 Time 04:47:18
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 1, 2023 05:00:13
Finish June 1, 2023 19:14:04
Number of Intervals/Interval 10246.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

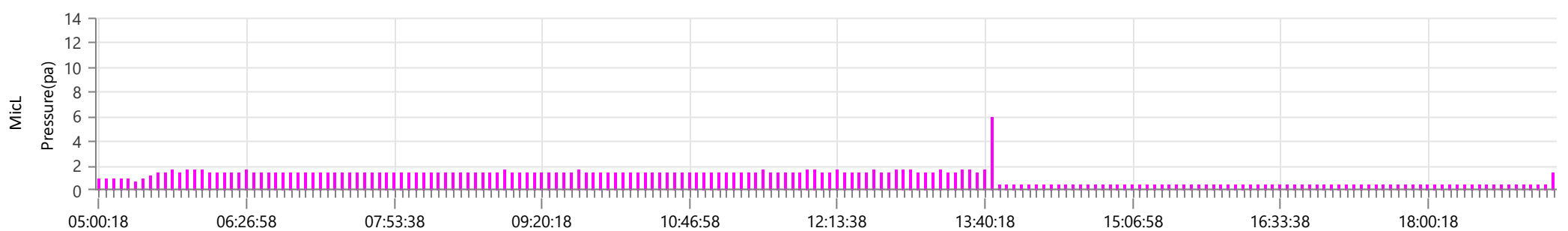
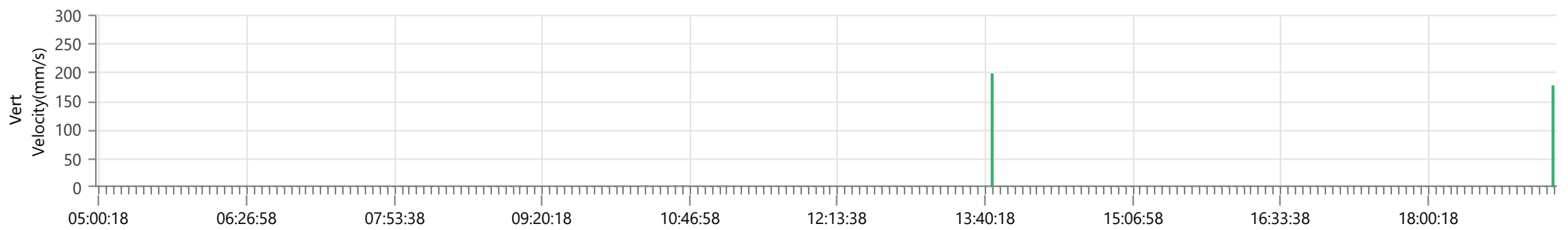
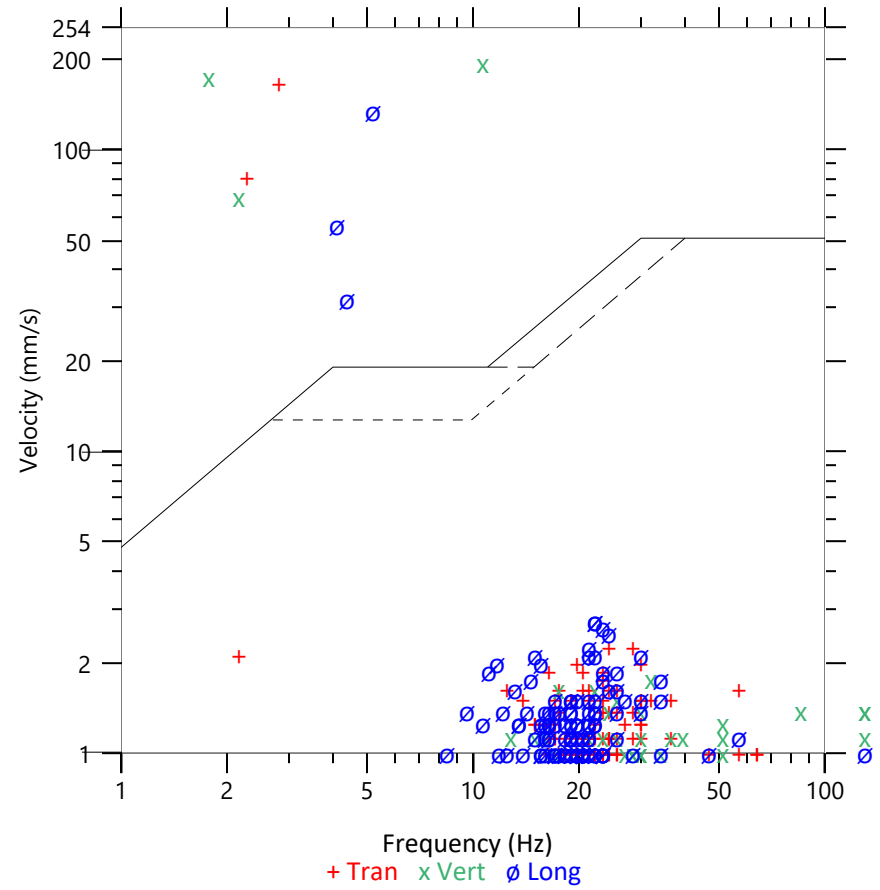
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230601050013.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	167.640 mm/s	197.104 mm/s	135.890 mm/s
Zero Crossing Frequency	2.8 Hz	10.7 Hz	5.2 Hz
Date	Jun 1, 2023	Jun 1, 2023	Jun 1, 2023
Time	13:46:28	13:46:28	13:46:28
Sensor Check	⊗ Check	⊗ Check	⊗ Check
Frequency	25.0 Hz	6.8 Hz	7.4 Hz
Overswing Ratio	0.7	0.4	0.7
Peak Vector Sum	218.935 mm/s at June 1, 2023 13:46:28		

ISEE Linear Microphone
 Peak Sound Pressure Level 6.00 pa
 Date Jun 1, 2023
 Time 13:46:28
 Zero Crossing Frequency 6.8 Hz
 Sensor Check ⊗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



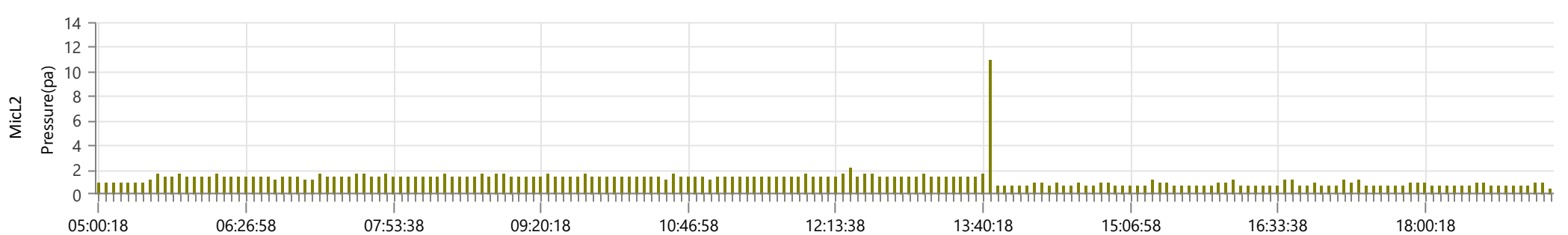
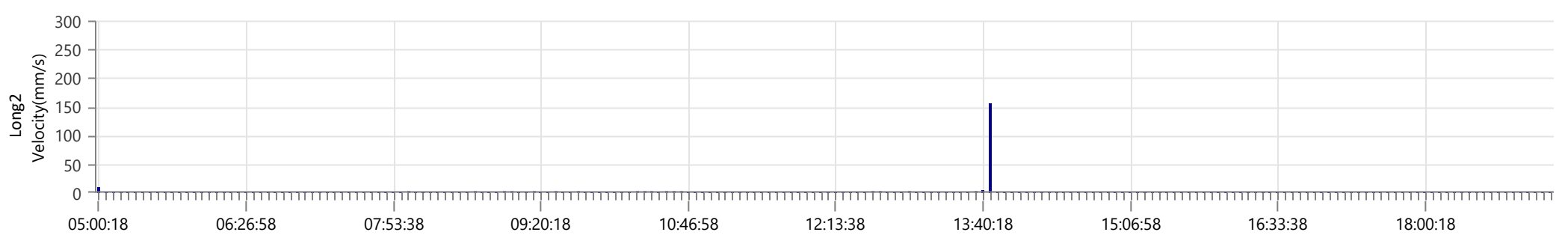
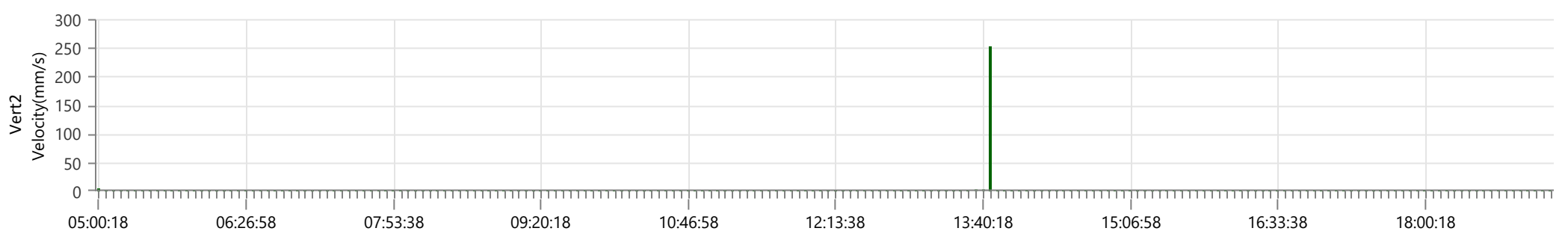
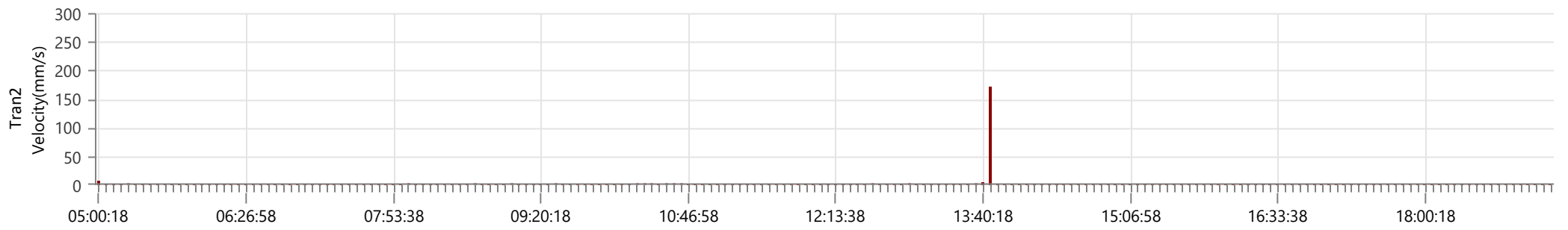
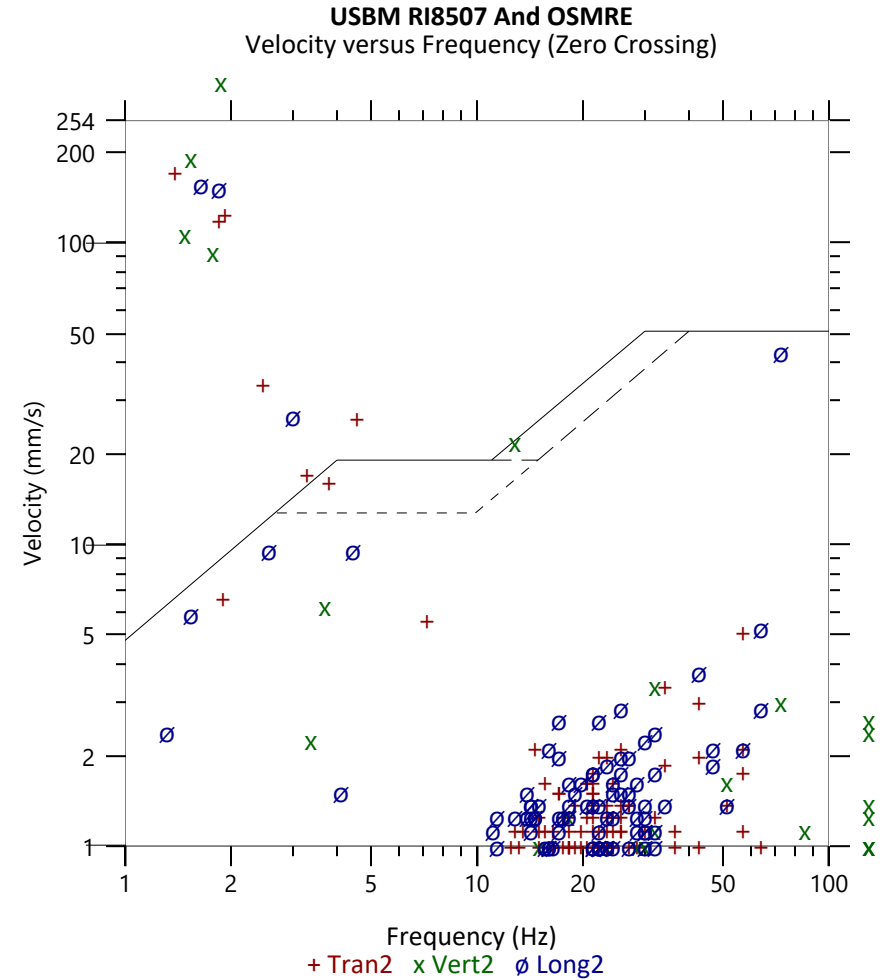
Start June 1, 2023 05:00:13
Finish June 1, 2023 19:14:04
Number of Intervals/Interval 10246.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230601050013.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	172.974 mm/s	***	157.226 mm/s
Zero Crossing Frequency	1.4 Hz	1.9 Hz	1.6 Hz
Date	Jun 1, 2023	Jun 1, 2023	Jun 1, 2023
Time	13:46:43	13:46:43	13:46:28
Sensor Check	⊗ Check	⊗ Check	⊗ Check
Frequency	68.3 Hz	146.3 Hz	9.9 Hz
Overswing Ratio	1.0	1.0	2.0
Peak Vector Sum	262.095 mm/s at June 1, 2023 13:46:43		

ISEE Linear Microphone
 Peak Sound Pressure Level 11.00 pa
 Date Jun 1, 2023
 Time 13:46:43
 Zero Crossing Frequency >100 Hz
 Sensor Check ⊗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



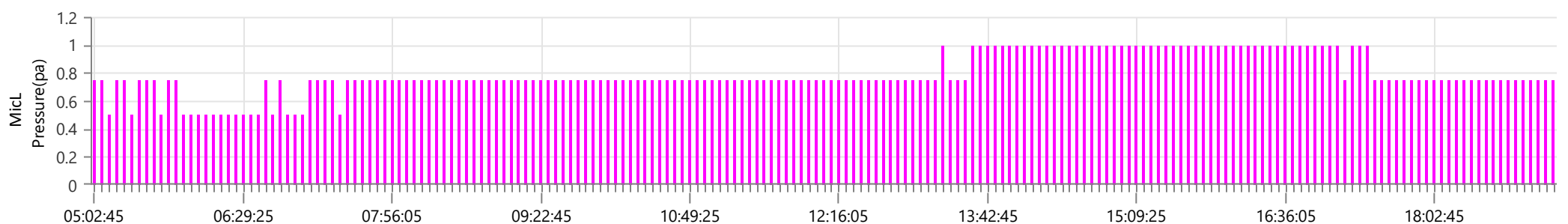
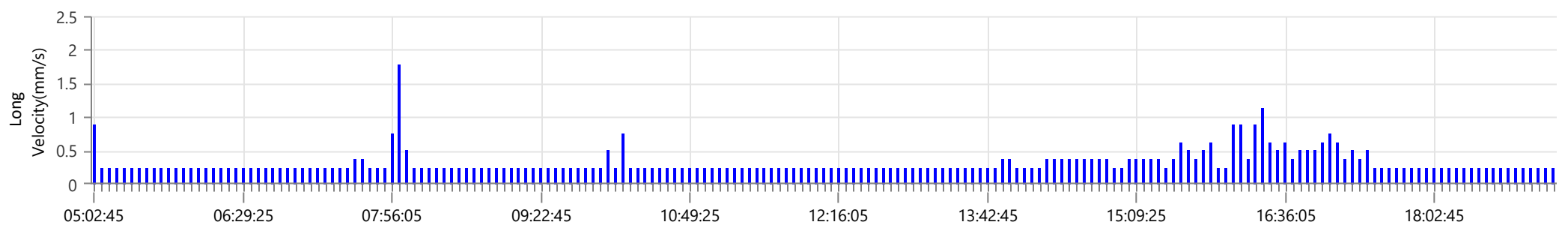
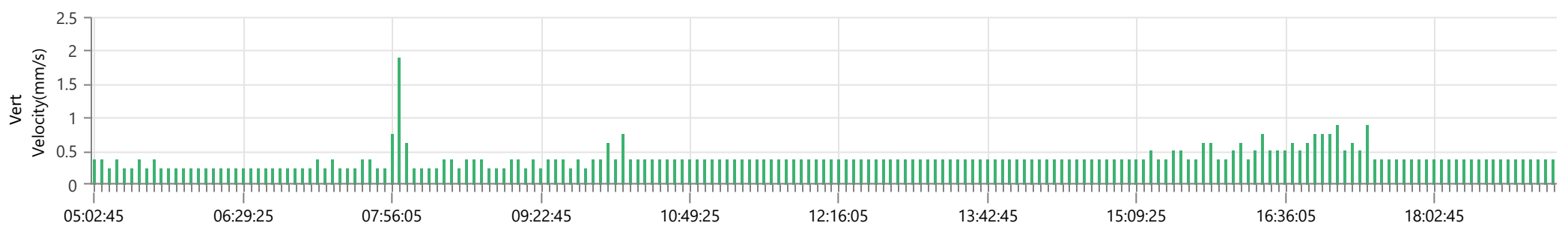
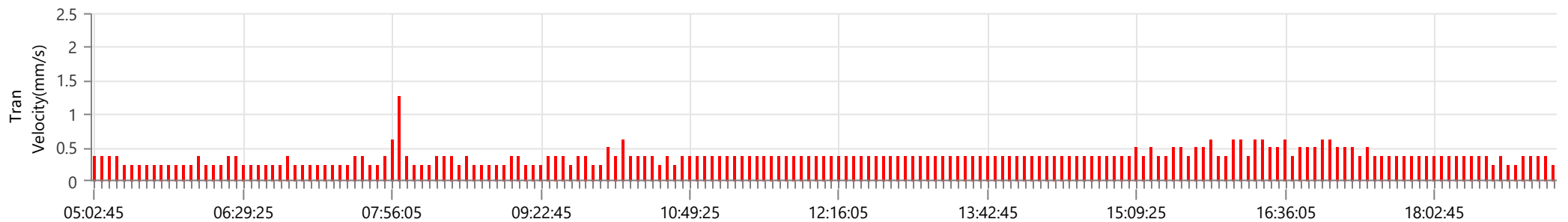
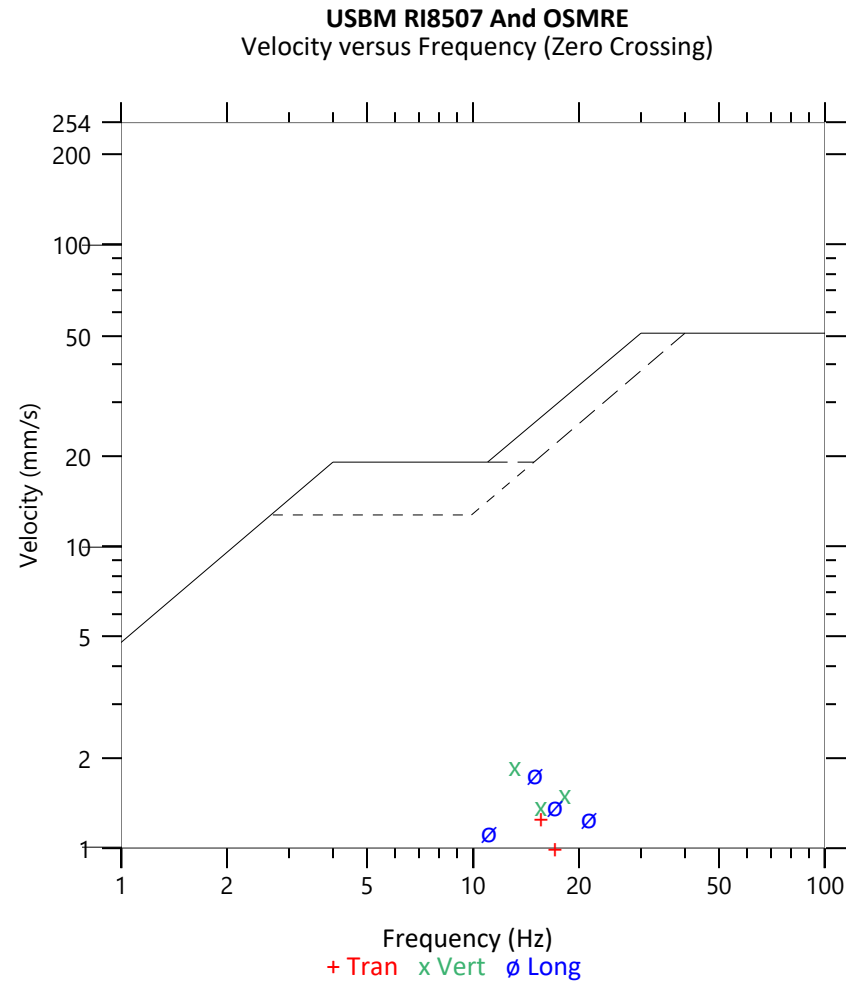
Start June 2, 2023 05:02:40
Finish June 2, 2023 19:15:29
Number of Intervals/Interval 10233.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230602050240.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.905 mm/s	1.778 mm/s
Zero Crossing Frequency	15.5 Hz	13.1 Hz	15.1 Hz
Date	Jun 2, 2023	Jun 2, 2023	Jun 2, 2023
Time	08:00:50	08:00:50	08:00:50
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.6	4.1	3.9
Peak Vector Sum	2.185 mm/s at June 2, 2023 08:00:50		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date Jun 2, 2023
 Time 13:21:00
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



Start June 2, 2023 05:02:40
Finish June 2, 2023 19:15:29
Number of Intervals/Interval 10233.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

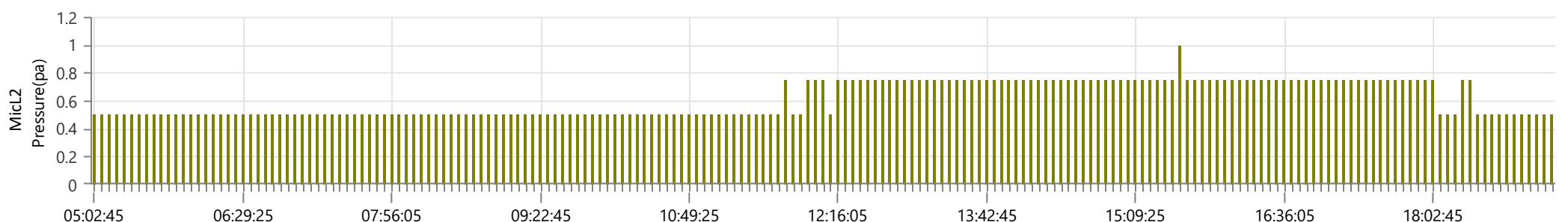
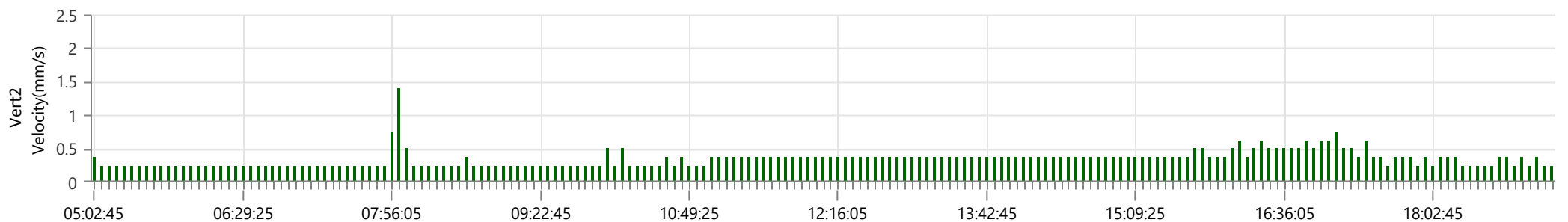
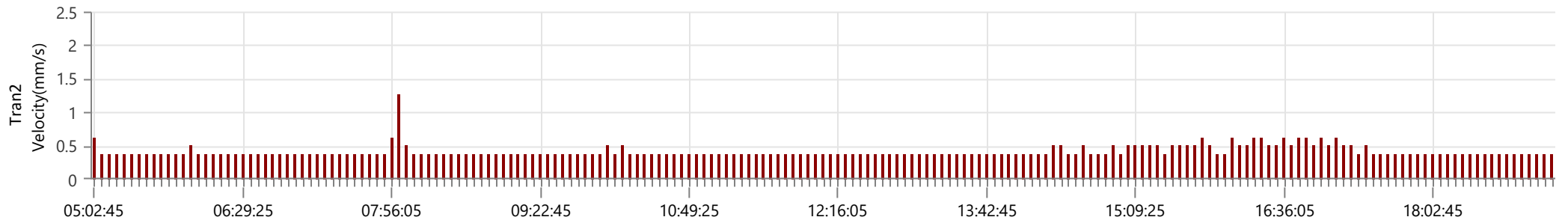
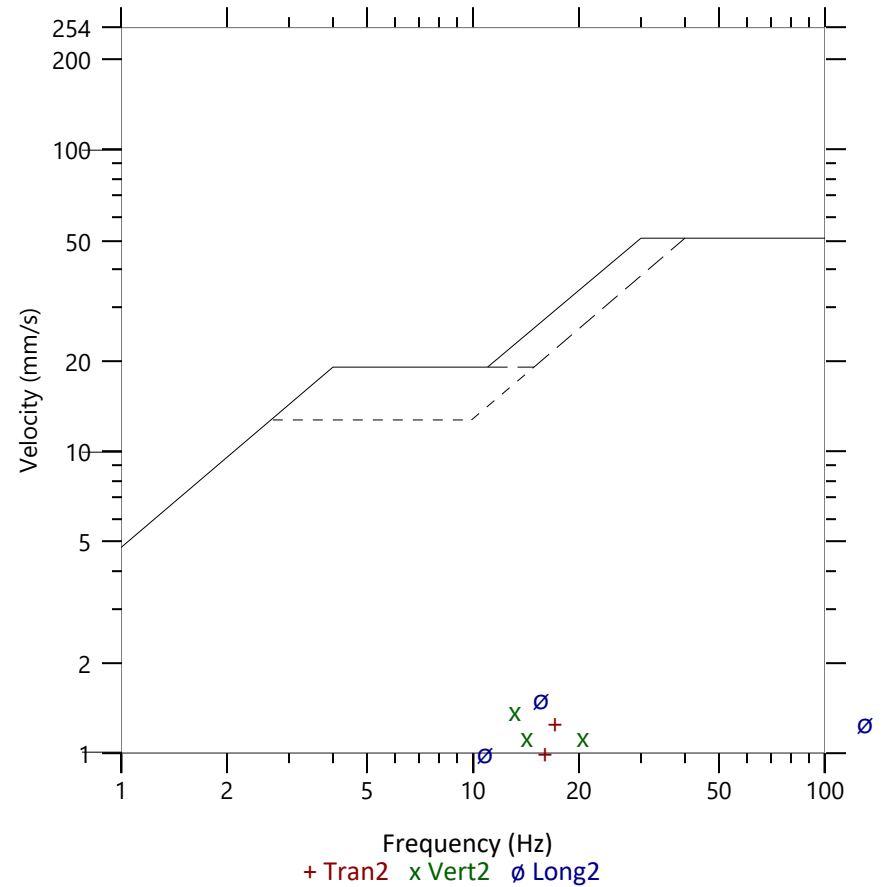
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230602050240.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	1.397 mm/s	1.524 mm/s
Zero Crossing Frequency	17.1 Hz	13.1 Hz	15.5 Hz
Date	Jun 2, 2023	Jun 2, 2023	Jun 2, 2023
Time	08:00:50	08:00:50	08:00:50
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	10.1 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.0	3.5	3.4
Peak Vector Sum	1.836 mm/s at June 2, 2023 08:00:50		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.00 pa
 Date Jun 2, 2023
 Time 15:36:05
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 2, 2023 05:07:01
Finish June 2, 2023 19:18:10
Number of Intervals/Interval 10213.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

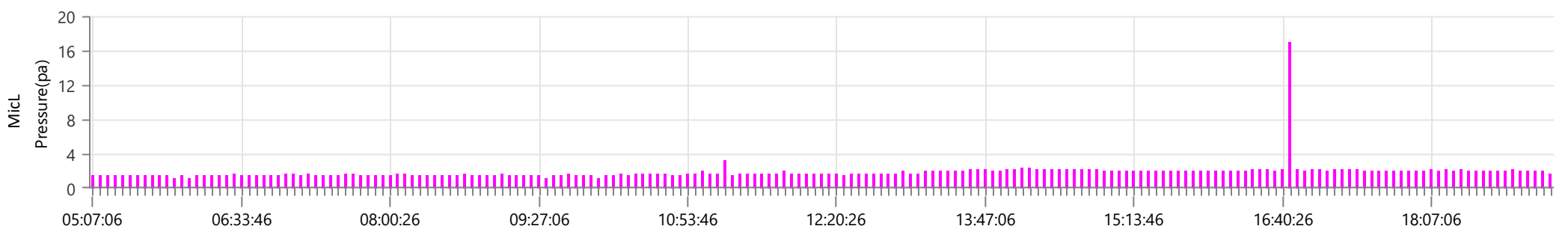
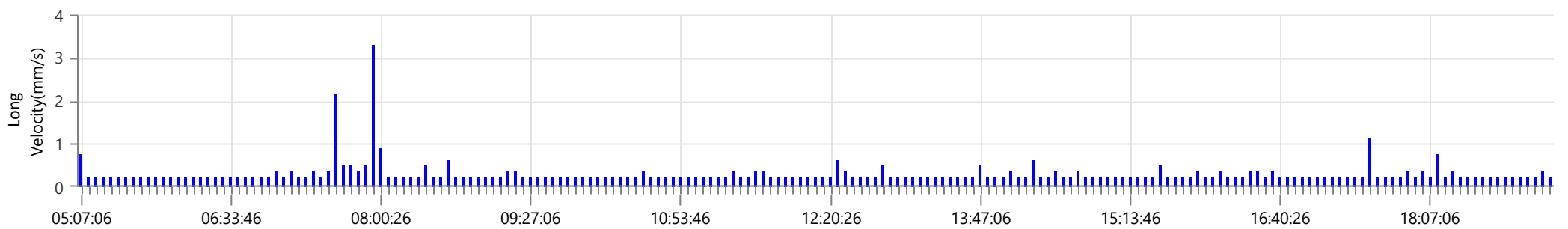
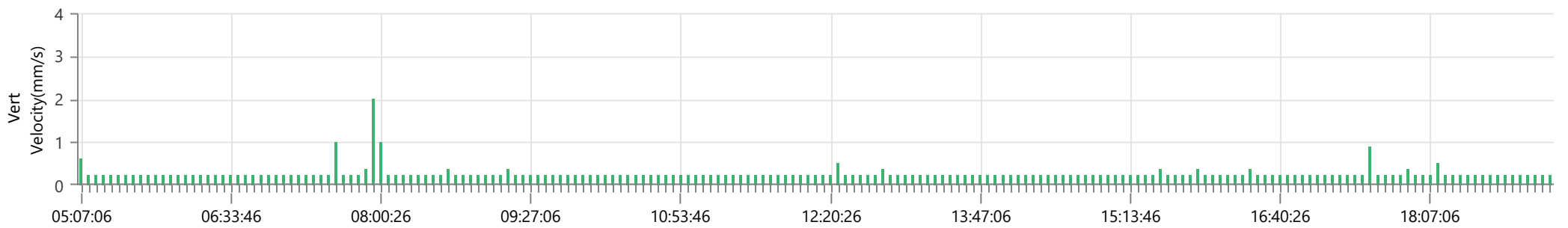
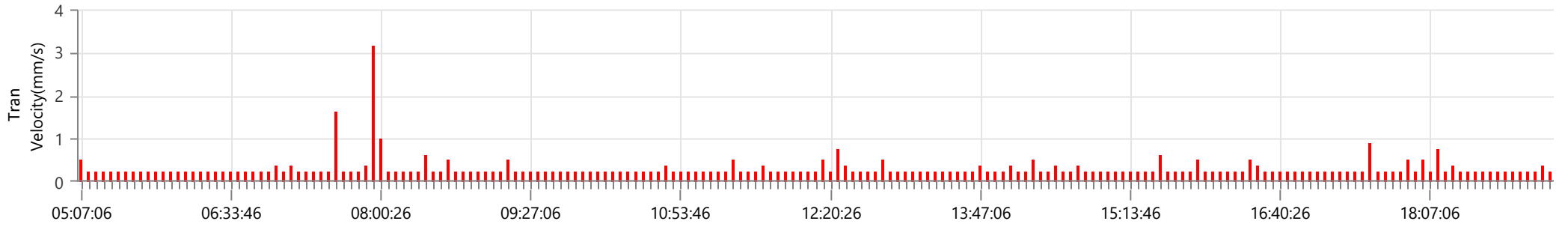
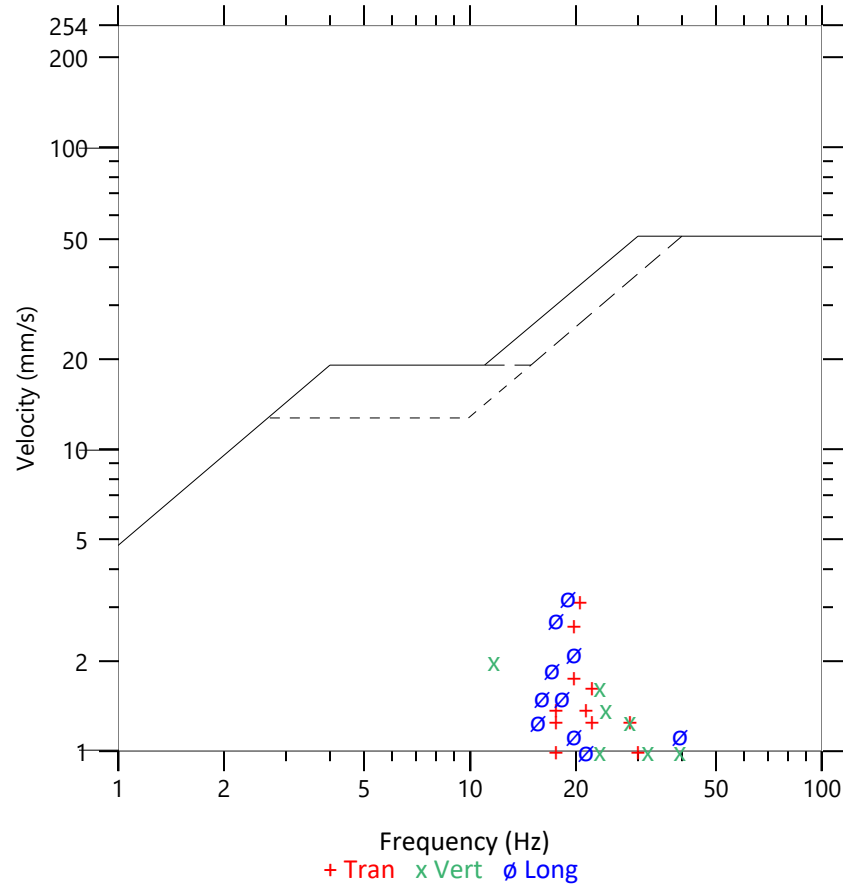
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230602050701.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.175 mm/s	2.032 mm/s	3.302 mm/s
Zero Crossing Frequency	20.5 Hz	11.6 Hz	19.0 Hz
Date	Jun 2, 2023	Jun 2, 2023	Jun 2, 2023
Time	07:56:21	07:56:21	07:56:26
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.3	3.5	3.3
Peak Vector Sum	3.718 mm/s at June 2, 2023 07:56:21		

ISEE Linear Microphone
 Peak Sound Pressure Level 17.00 pa
 Date Jun 2, 2023
 Time 16:46:51
 Zero Crossing Frequency 85.3 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 2, 2023 05:07:01
Finish June 2, 2023 19:18:10
Number of Intervals/Interval 10213.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

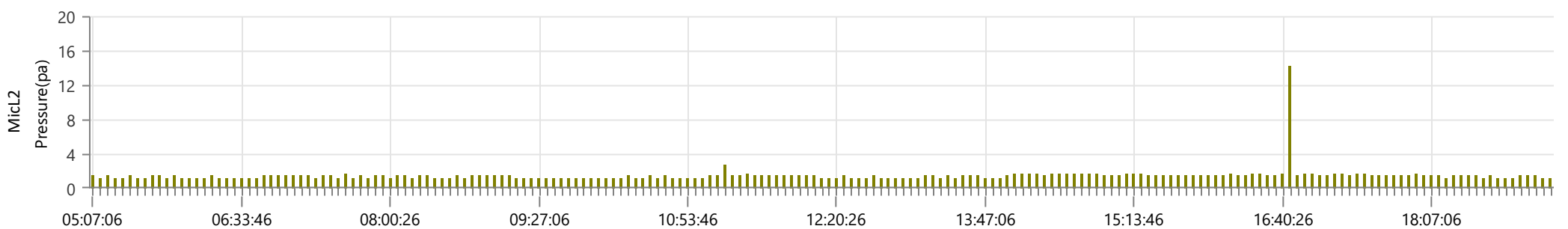
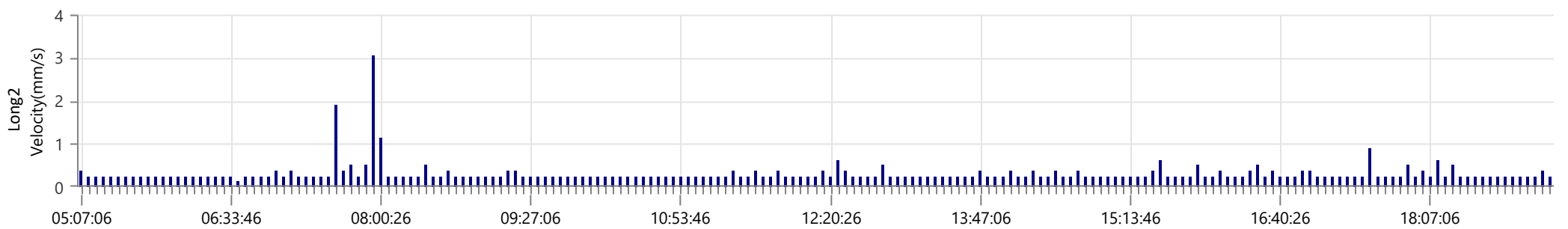
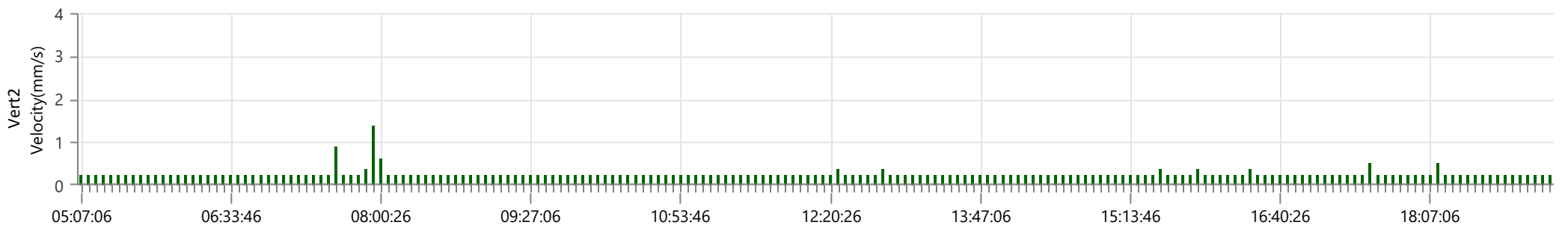
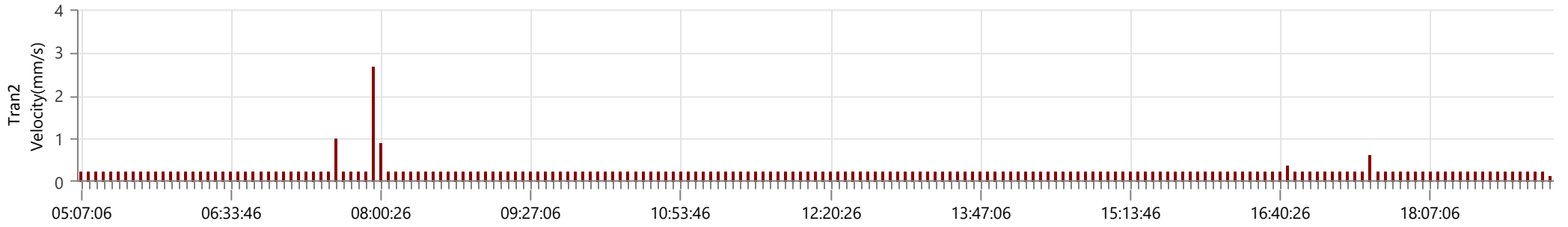
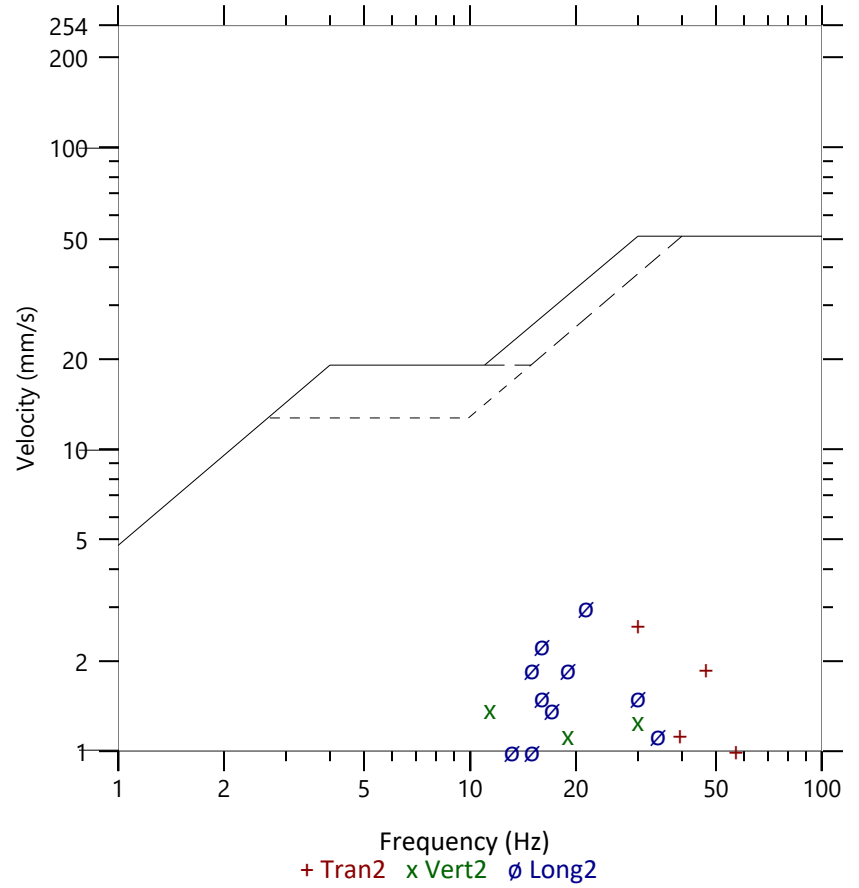
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230602050701.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.667 mm/s	1.397 mm/s	3.048 mm/s
Zero Crossing Frequency	30.1 Hz	11.4 Hz	21.3 Hz
Date	Jun 2, 2023	Jun 2, 2023	Jun 2, 2023
Time	07:56:16	07:56:21	07:56:26
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	13.3 Hz	8.3 Hz	7.9 Hz
Overswing Ratio	6.2	3.3	3.5
Peak Vector Sum	3.124 mm/s at June 2, 2023 07:56:26		

ISEE Linear Microphone
 Peak Sound Pressure Level 14.25 pa
 Date Jun 2, 2023
 Time 16:46:51
 Zero Crossing Frequency 85.3 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 3, 2023 05:11:35
Finish June 3, 2023 18:40:12
Number of Intervals/Interval 9703.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

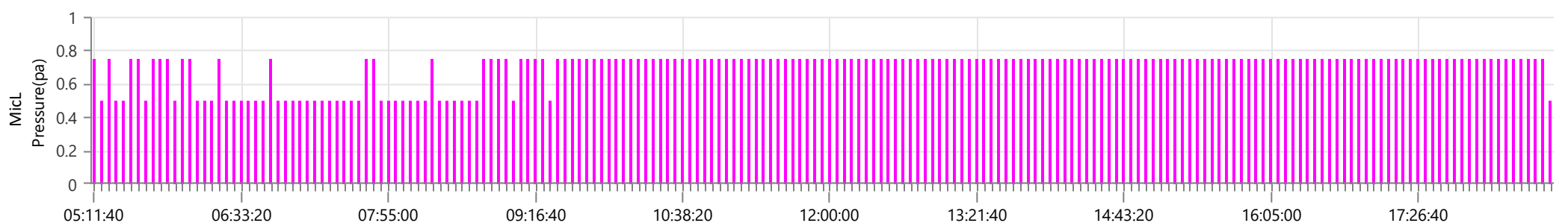
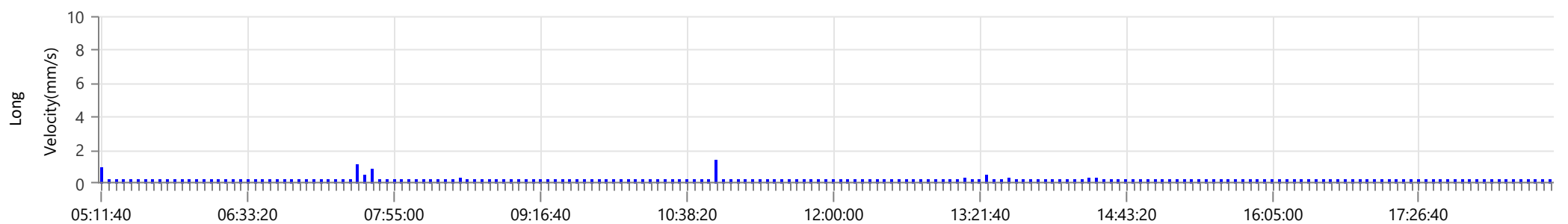
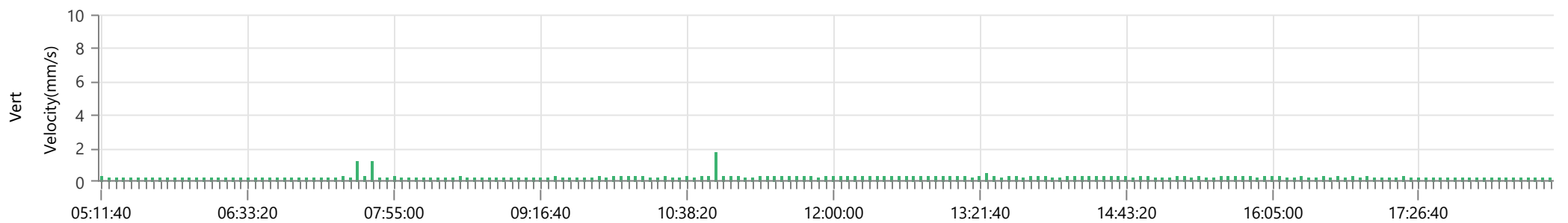
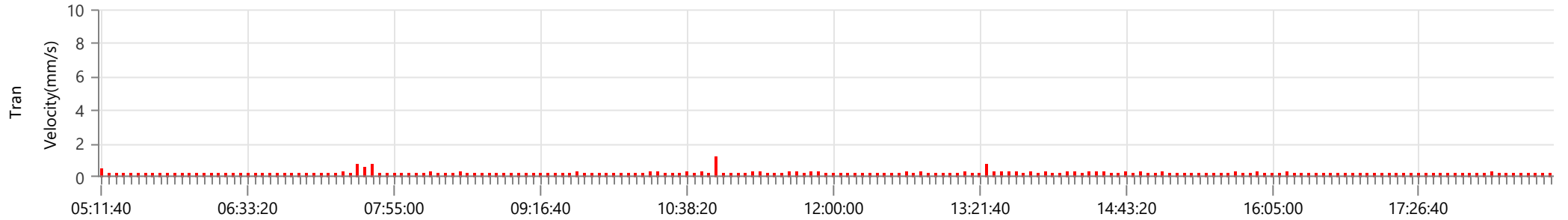
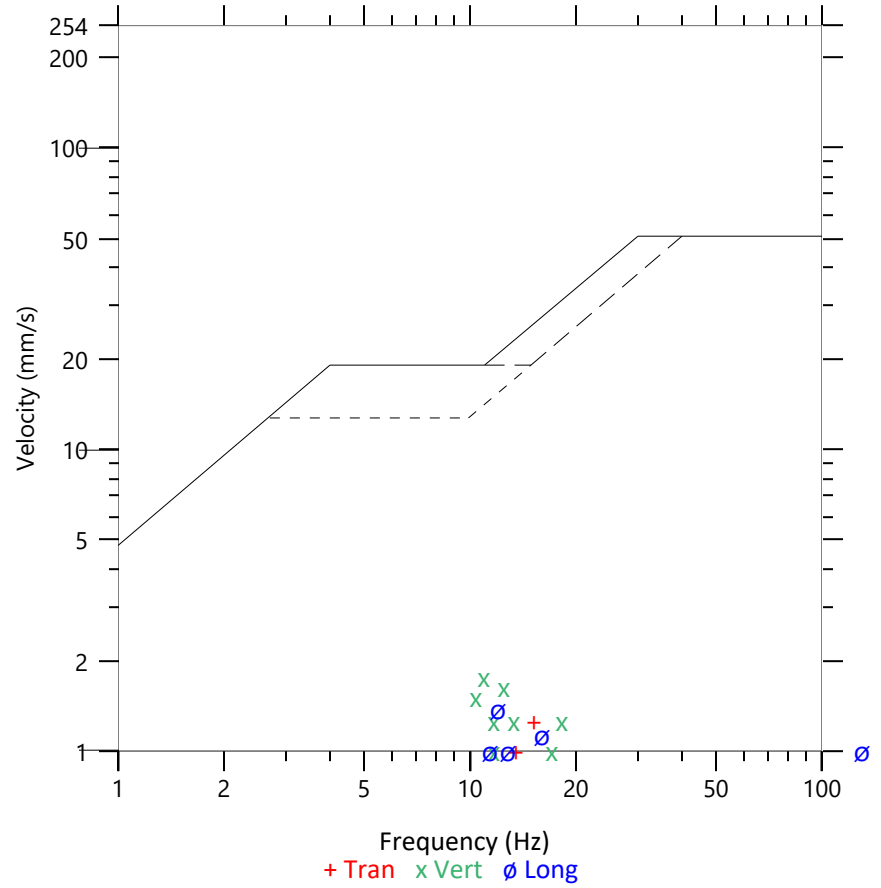
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230603051135.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.778 mm/s	1.397 mm/s
Zero Crossing Frequency	15.3 Hz	10.9 Hz	12.0 Hz
Date	Jun 3, 2023	Jun 3, 2023	Jun 3, 2023
Time	10:56:00	10:56:10	10:56:10
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.7	4.1	3.9
Peak Vector Sum	2.044 mm/s at June 3, 2023 10:56:10		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Jun 3, 2023
 Time 05:11:55
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 3, 2023 05:11:35
Finish June 3, 2023 18:40:12
Number of Intervals/Interval 9703.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

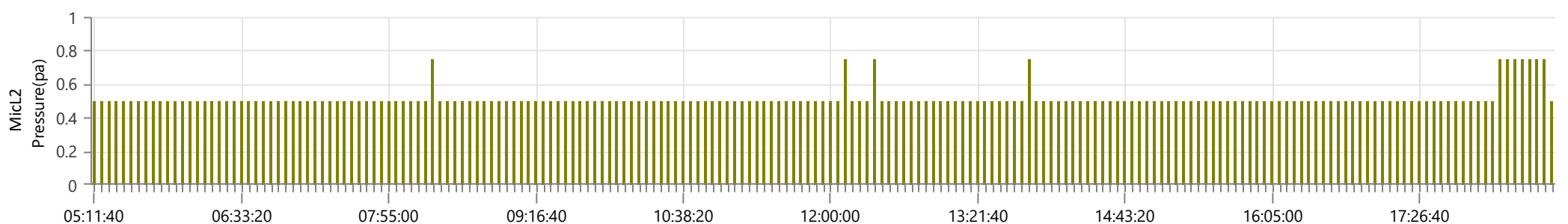
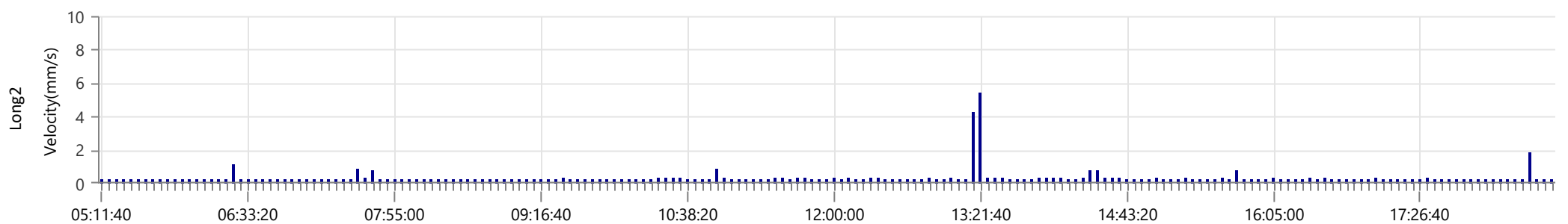
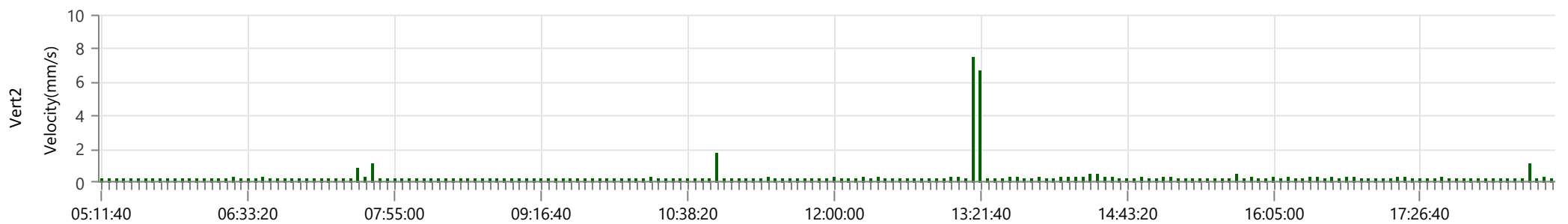
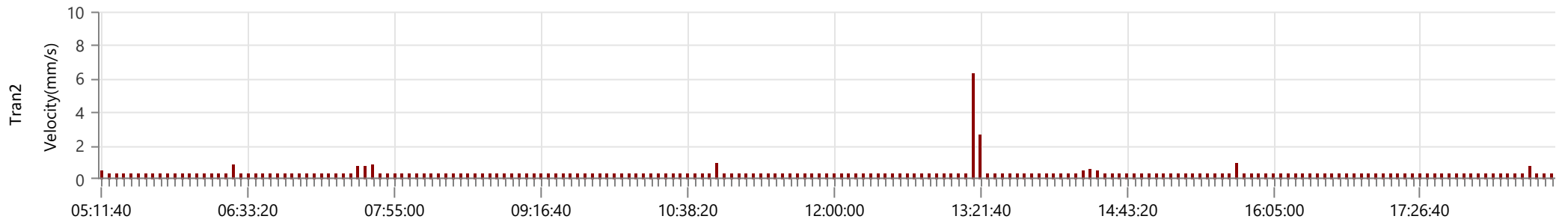
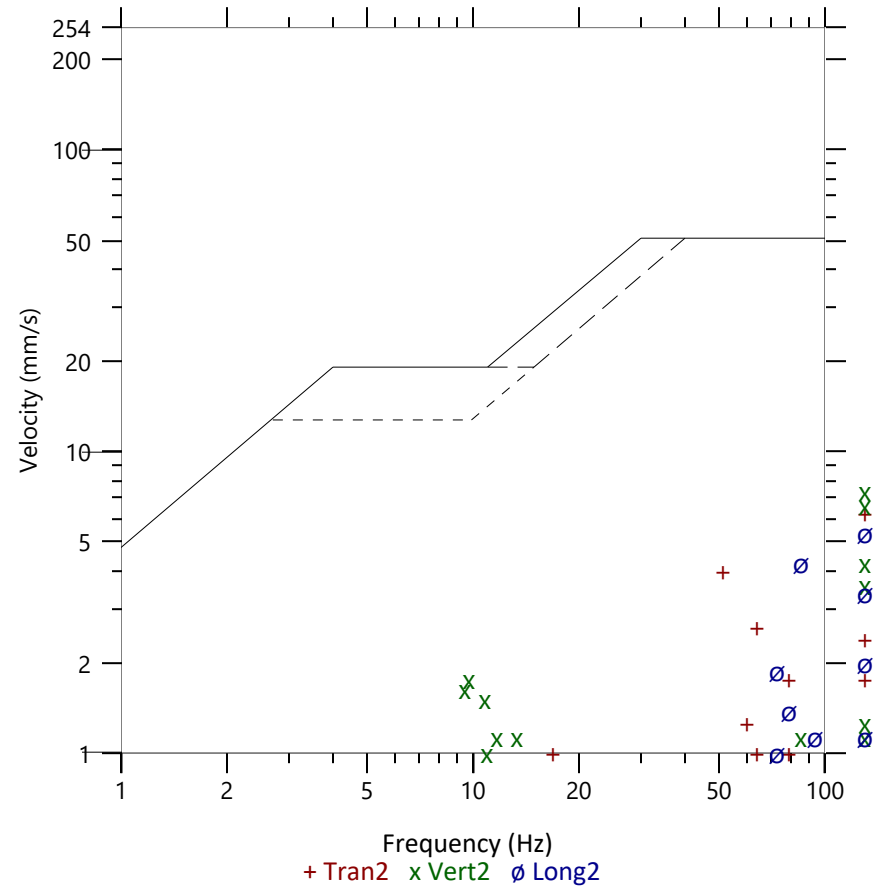
Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230603051135.IDFH
Scaled Distance 44.3 (14.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	6.350 mm/s	7.493 mm/s	5.461 mm/s
Zero Crossing Frequency	>100 Hz	>100 Hz	>100 Hz
Date	Jun 3, 2023	Jun 3, 2023	Jun 3, 2023
Time	13:20:20	13:20:20	13:24:00
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.4	3.4
Peak Vector Sum	9.064 mm/s at June 3, 2023 13:20:20		

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Jun 3, 2023
 Time 08:19:40
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 3, 2023 05:16:42
Finish June 3, 2023 18:33:23
Number of Intervals/Interval 9560.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

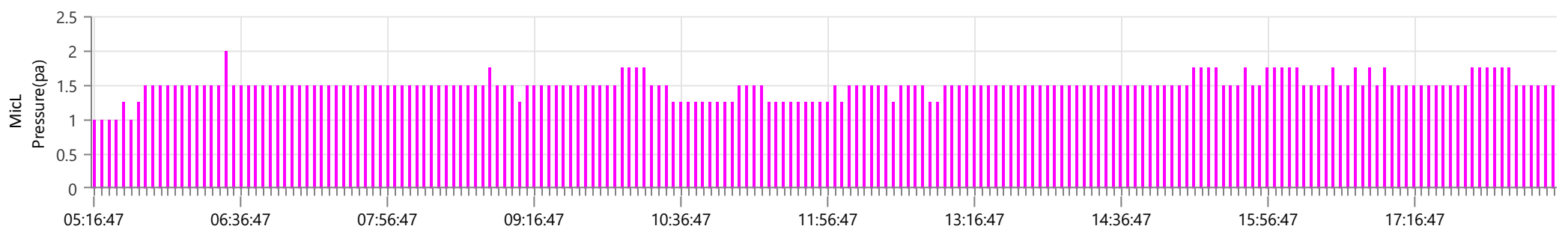
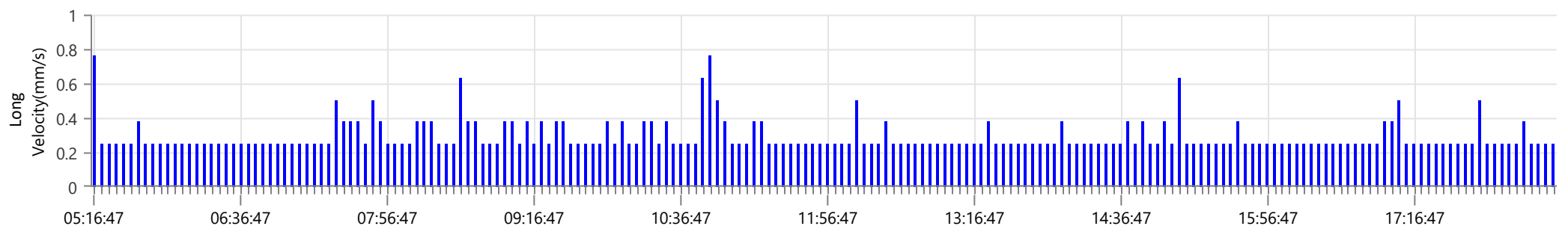
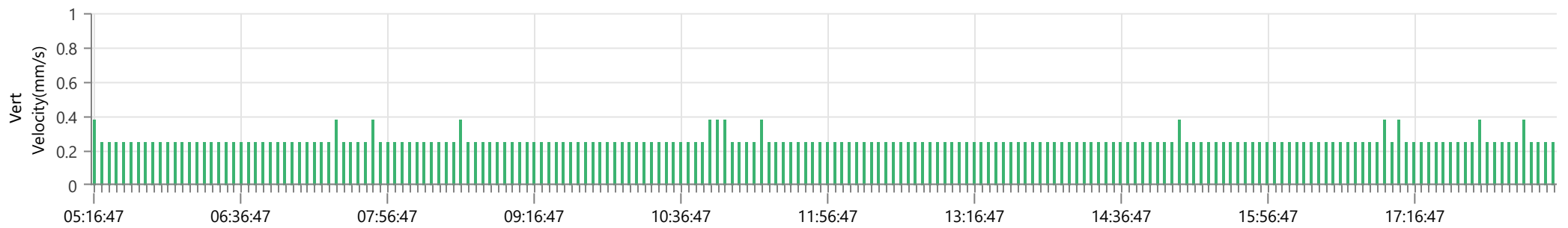
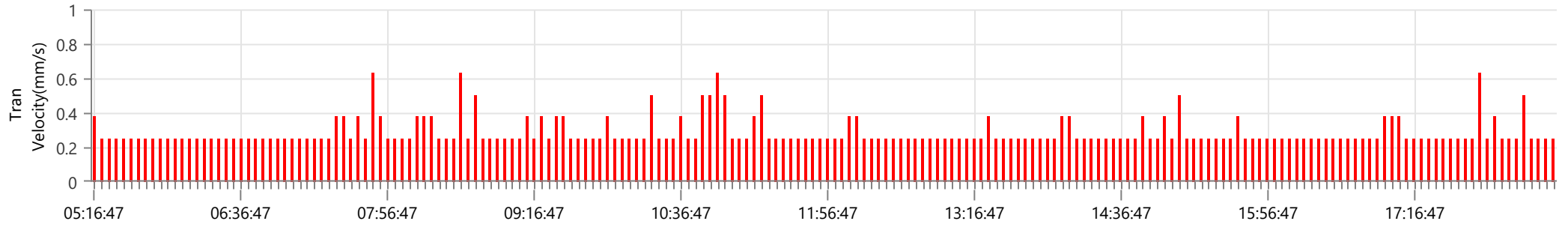
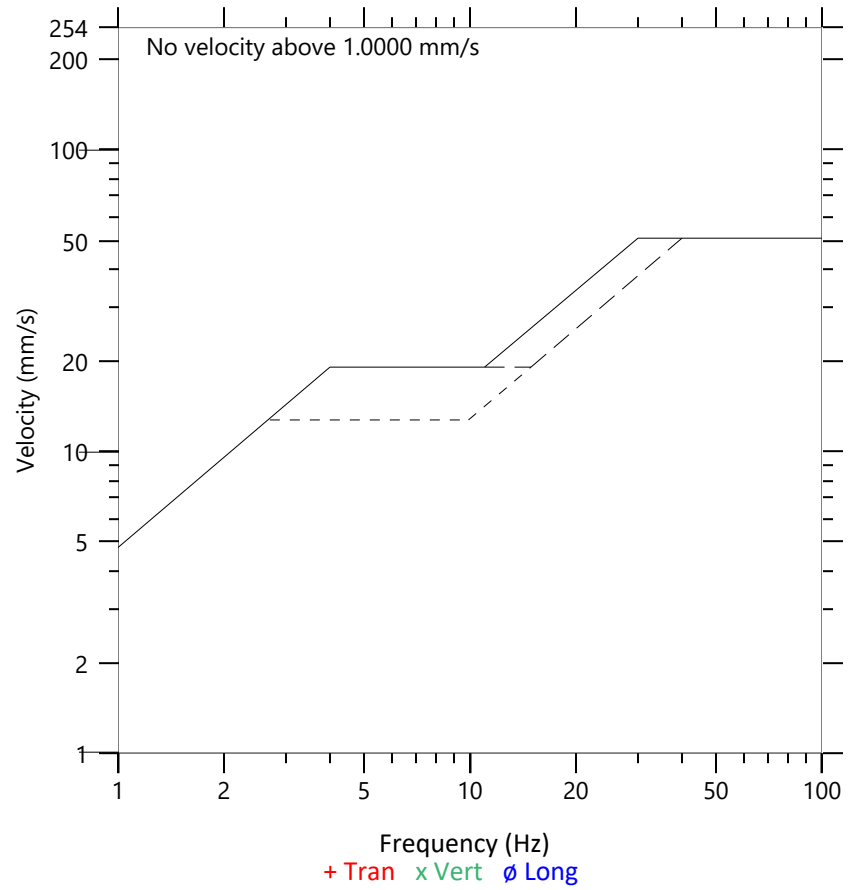
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230603051642.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	0.381 mm/s	0.762 mm/s
Zero Crossing Frequency	14.2 Hz	85.3 Hz	64.0 Hz
Date	Jun 3, 2023	Jun 3, 2023	Jun 3, 2023
Time	07:51:37	05:16:52	05:16:52
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	7.8 Hz
Overswing Ratio	3.3	3.5	3.4
Peak Vector Sum	0.842 mm/s at June 3, 2023 05:16:52		

ISEE Linear Microphone
 Peak Sound Pressure Level 2.00 pa
 Date Jun 3, 2023
 Time 06:31:02
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 3, 2023 05:16:42
Finish June 3, 2023 18:33:23
Number of Intervals/Interval 9560.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

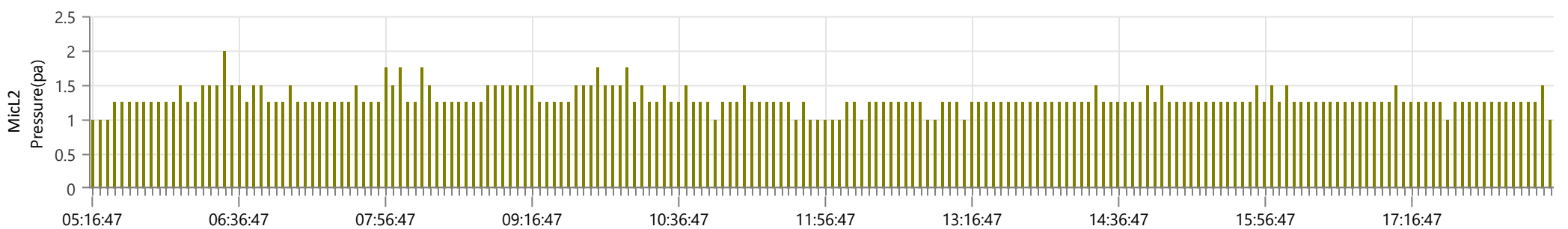
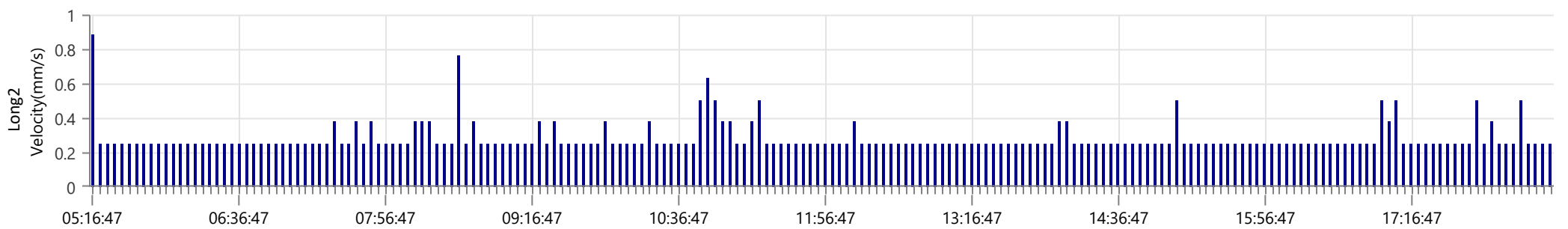
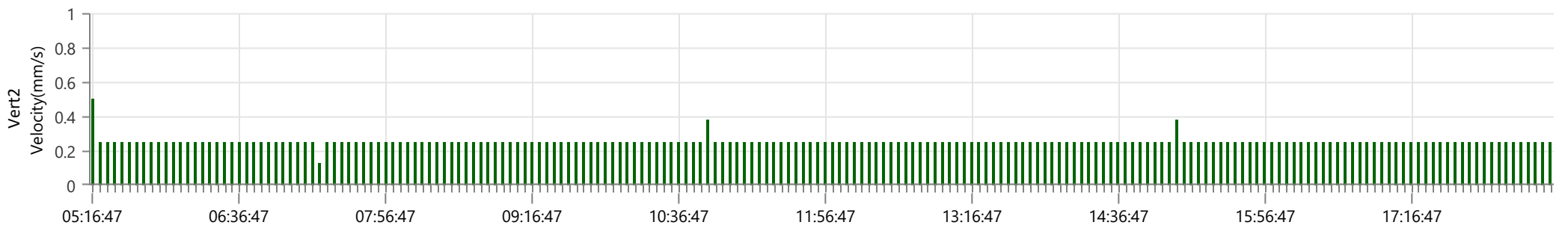
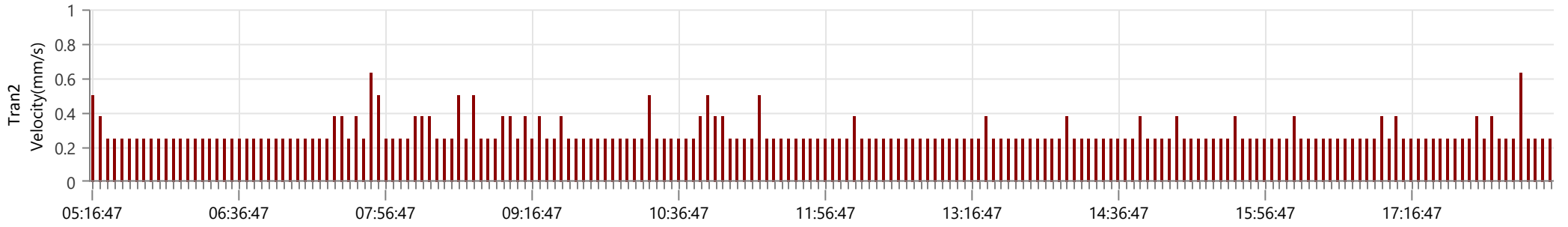
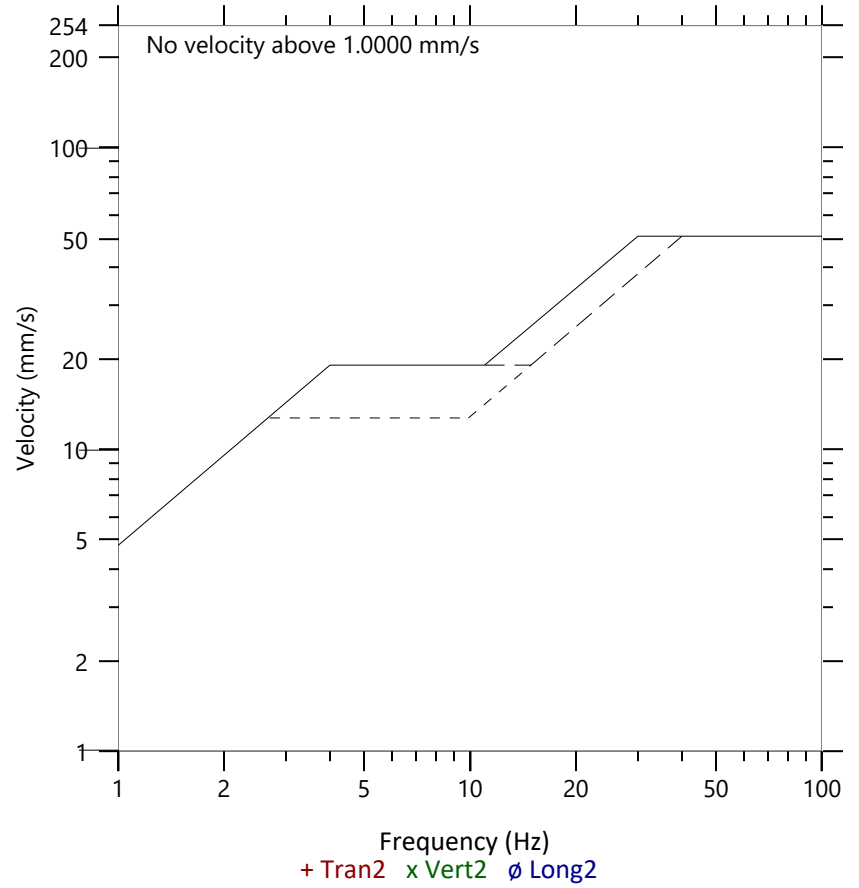
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230603051642.IDFH
Scaled Distance 22.1 (7.0 m, 0.1 kg)

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	0.508 mm/s	0.889 mm/s
Zero Crossing Frequency	13.1 Hz	42.7 Hz	30.1 Hz
Date	Jun 3, 2023	Jun 3, 2023	Jun 3, 2023
Time	07:51:37	05:19:57	05:17:27
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	11.8 Hz	8.3 Hz	8.1 Hz
Overswing Ratio	4.9	3.3	3.6
Peak Vector Sum	0.898 mm/s at June 3, 2023 05:17:27		

ISEE Linear Microphone
 Peak Sound Pressure Level 2.00 pa
 Date Jun 3, 2023
 Time 06:31:02
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 09:59:16
Finish June 5, 2023 19:10:09
Number of Intervals/Interval 6610.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230605095916.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

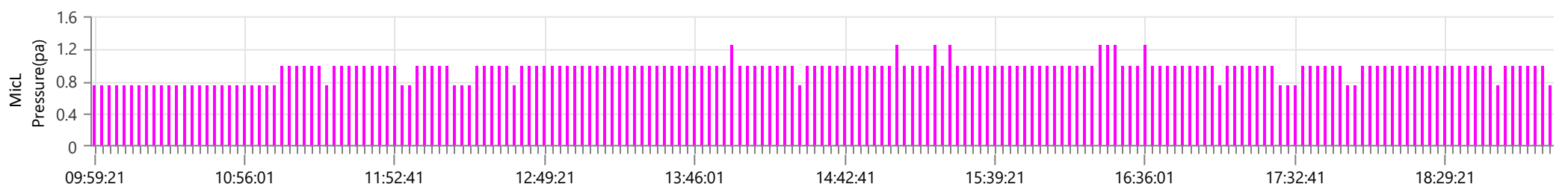
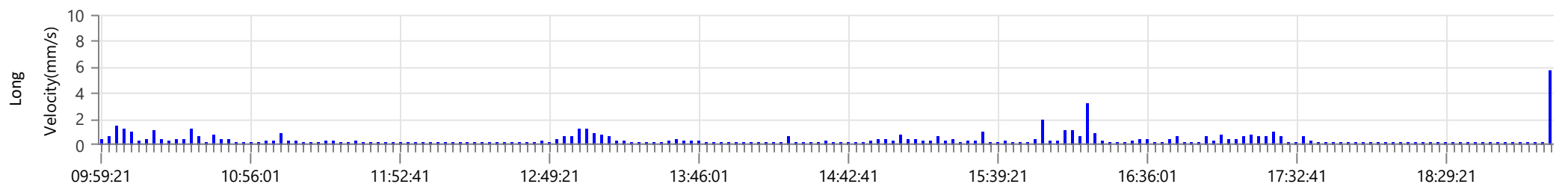
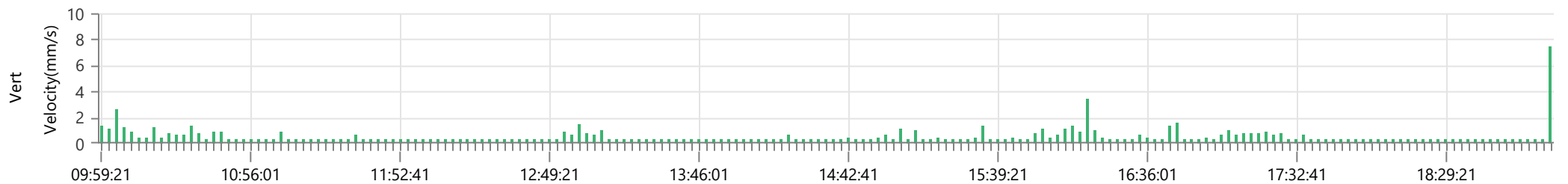
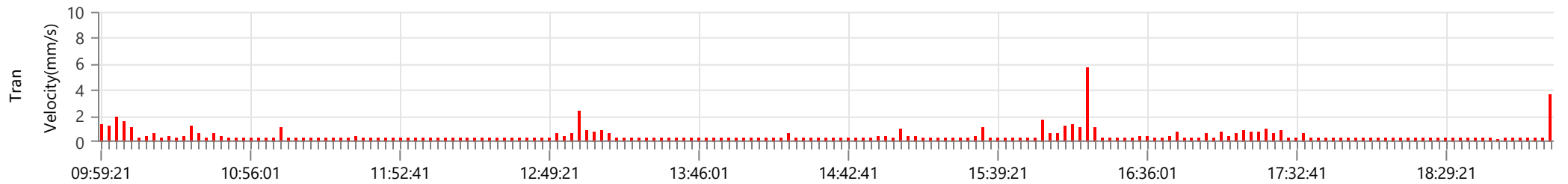
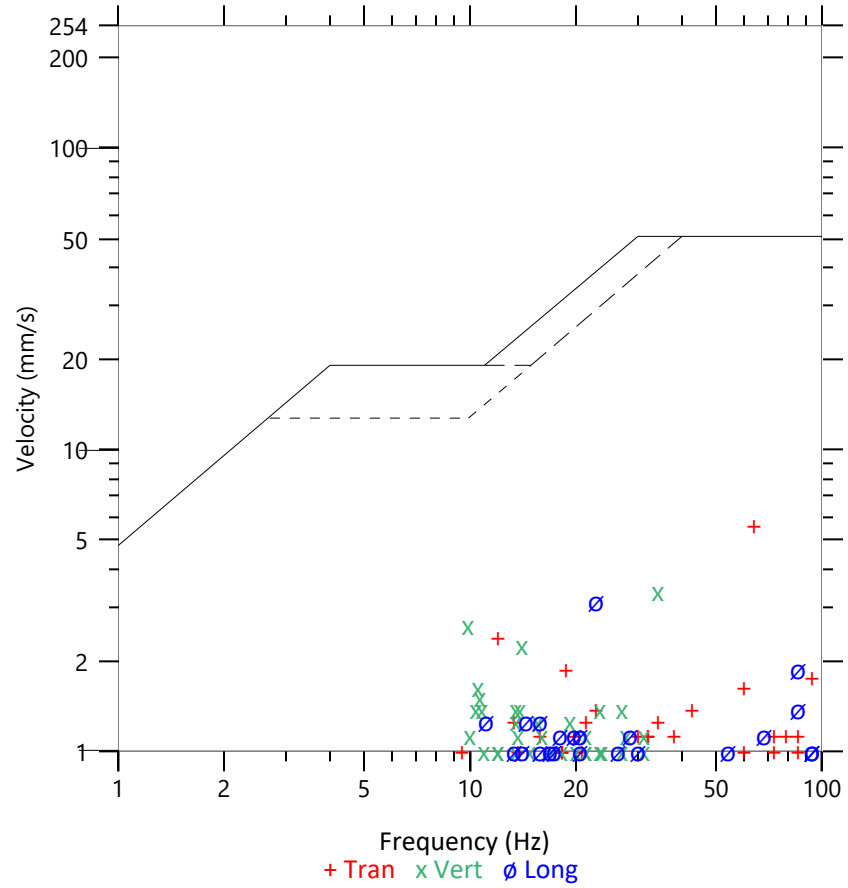
Extended Notes 51.44878 112.68037 51.44878 112.68029
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	5.715 mm/s	7.493 mm/s	5.715 mm/s
Zero Crossing Frequency	64.0 Hz	>100 Hz	>100 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	16:15:51	19:10:06	19:10:06
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.5	4.1	3.9

Peak Vector Sum 8.011 mm/s at June 5, 2023 19:10:06

ISEE Linear Microphone
Peak Sound Pressure Level 1.25 pa
Date Jun 5, 2023
Time 14:02:31
Zero Crossing Frequency 93.1 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 09:59:16
Finish June 5, 2023 19:10:09
Number of Intervals/Interval 6610.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230605095916.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44878 112.68037 51.44878 112.68029

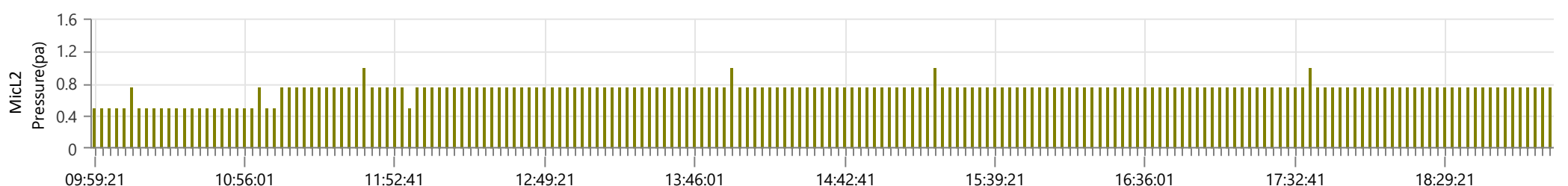
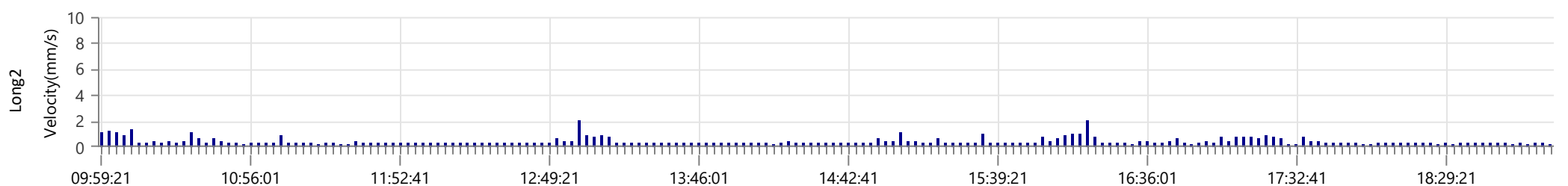
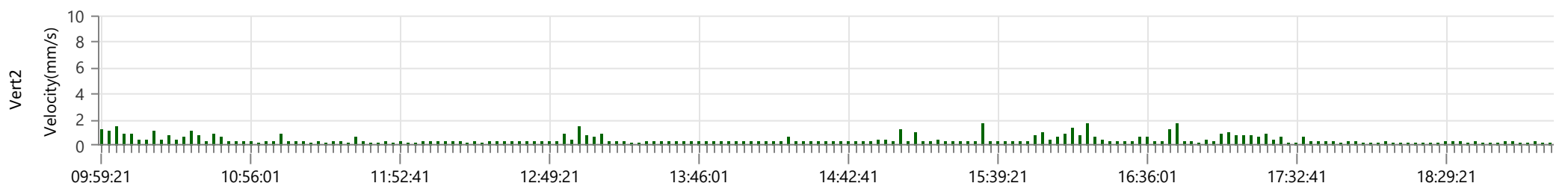
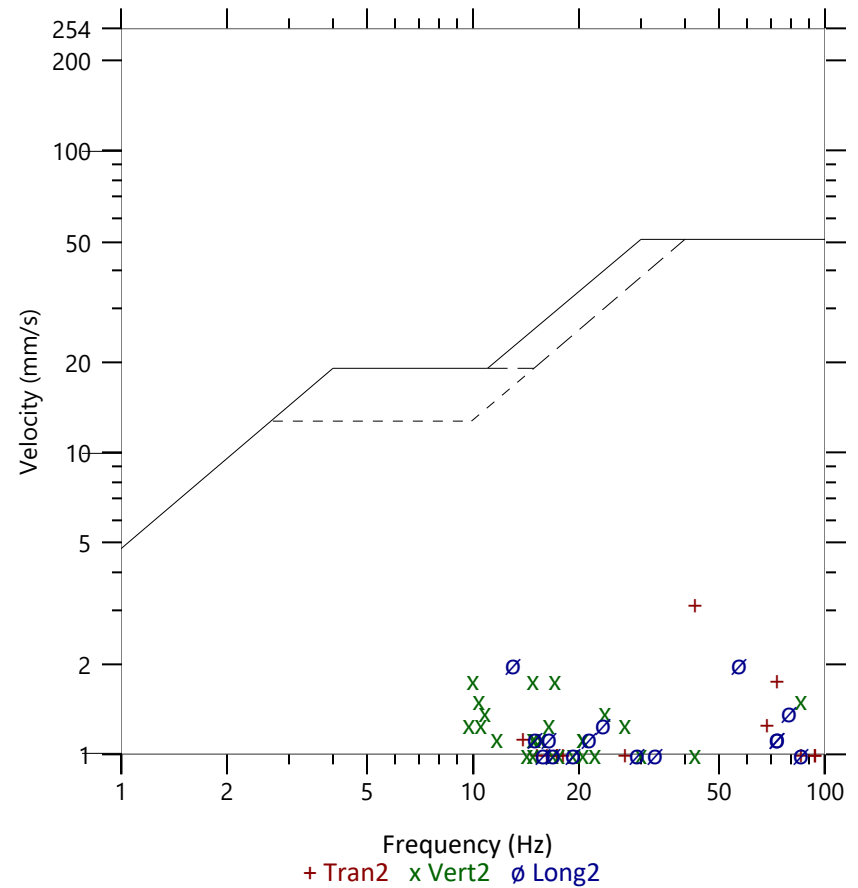
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.175 mm/s	1.778 mm/s	2.032 mm/s
Zero Crossing Frequency	42.7 Hz	14.8 Hz	13.0 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	16:15:51	15:35:16	13:00:41
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	9.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	4.3	3.5	3.4

Peak Vector Sum 3.846 mm/s at June 5, 2023 16:15:51

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date Jun 5, 2023
Time 11:41:31
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 05:41:52
Finish June 5, 2023 09:58:14
Number of Intervals/Interval 3076.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230605054152.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

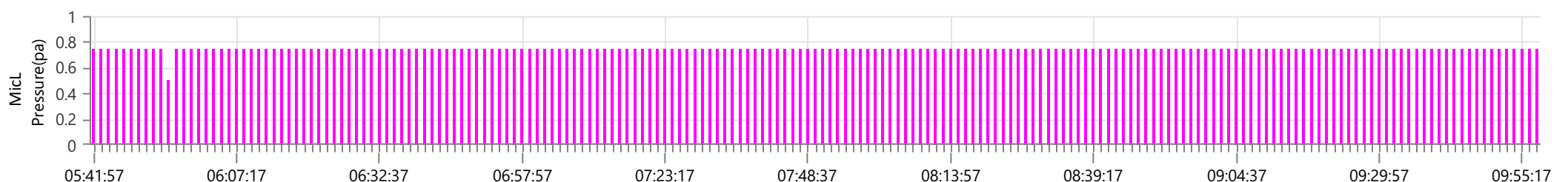
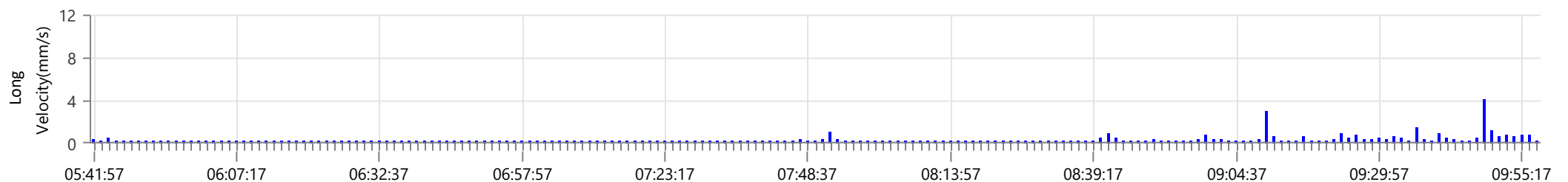
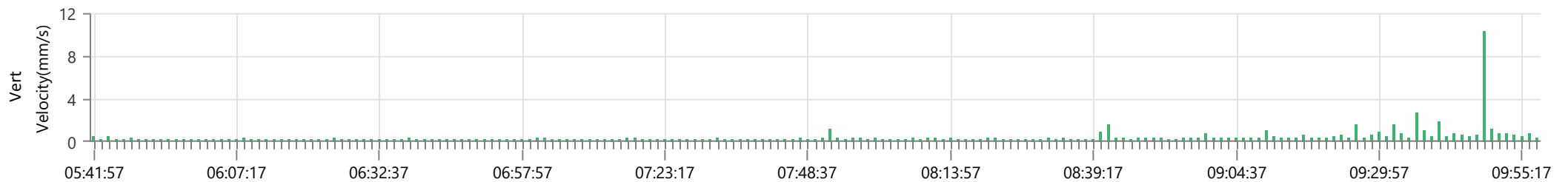
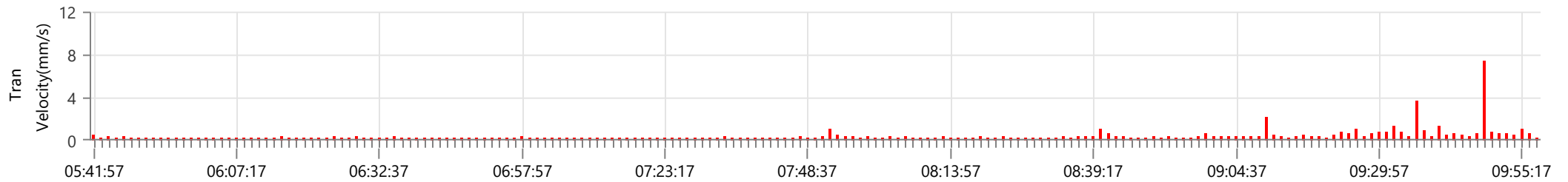
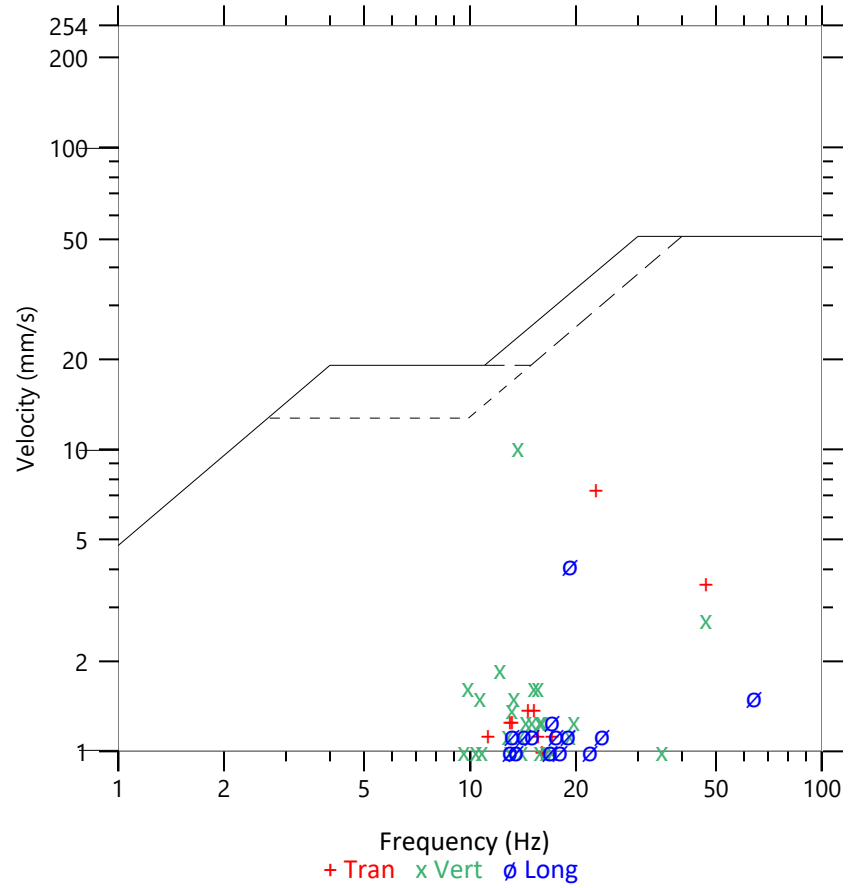
Extended Notes 51.44878 112.68037 51.44878 112.68029
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	7.493 mm/s	10.287 mm/s	4.191 mm/s
Zero Crossing Frequency	22.8 Hz	13.7 Hz	19.3 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	09:48:52	09:48:52	09:48:52
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	3.6	4.0	3.8

Peak Vector Sum 11.827 mm/s at June 5, 2023 09:48:52

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date Jun 5, 2023
Time 05:42:02
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 05:41:52
Finish June 5, 2023 09:58:14
Number of Intervals/Interval 3076.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230605054152.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44878 112.68037 51.44878 112.68029

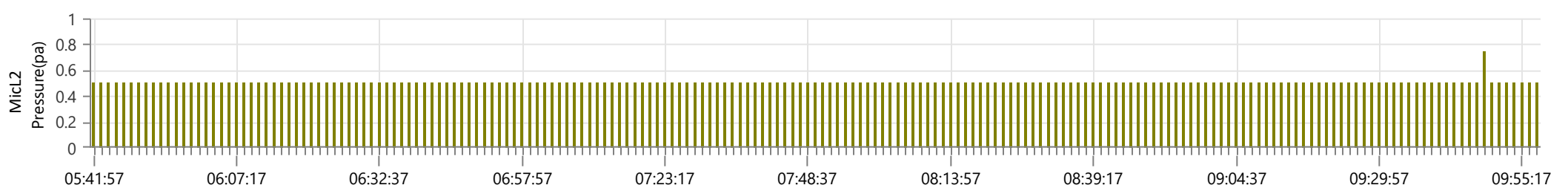
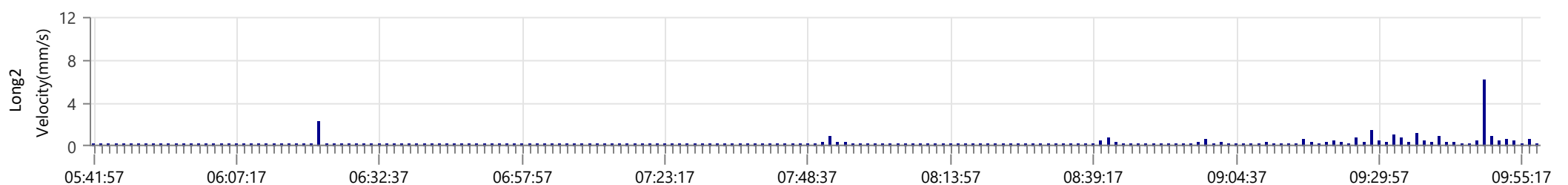
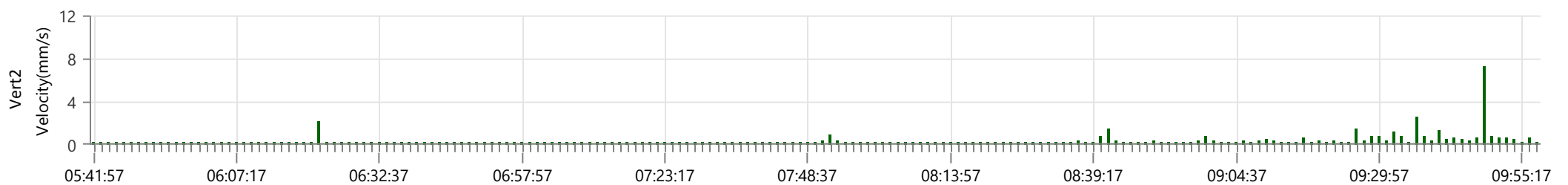
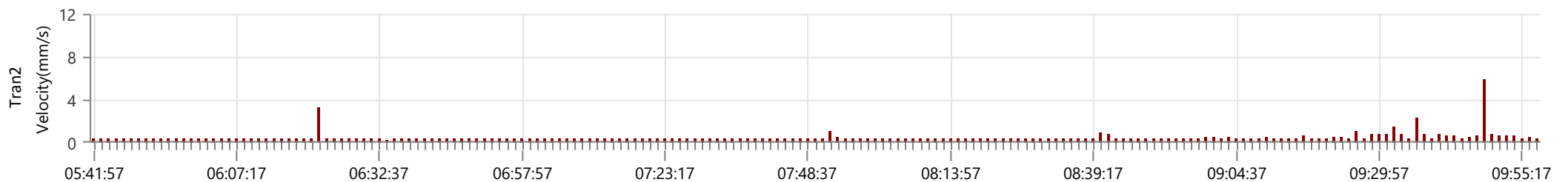
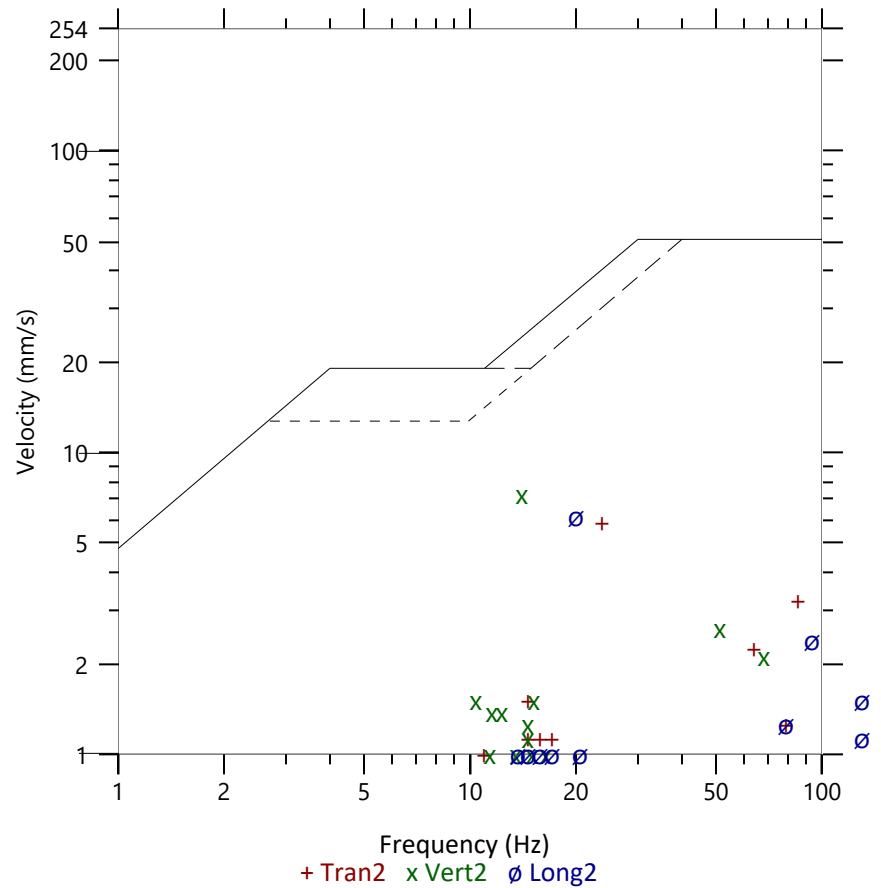
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.969 mm/s	7.366 mm/s	6.223 mm/s
Zero Crossing Frequency	23.8 Hz	14.0 Hz	20.1 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	09:48:52	09:48:52	09:48:52
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	9.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	4.3	3.5	3.4

Peak Vector Sum 9.511 mm/s at June 5, 2023 09:48:52

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date Jun 5, 2023
Time 09:48:52
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 05:46:05
Finish June 5, 2023 19:13:30
Number of Intervals/Interval 9688.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230605054605.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

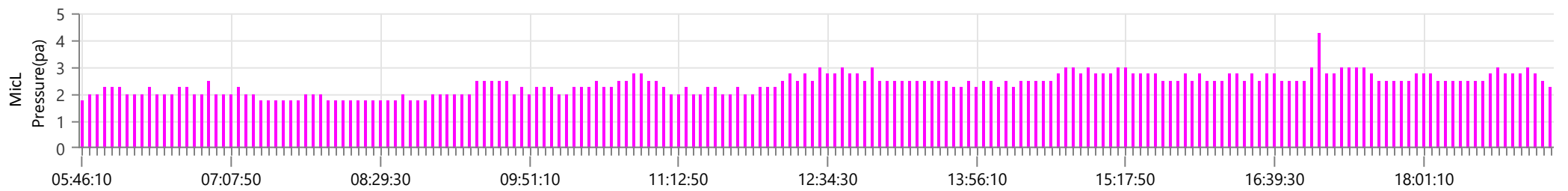
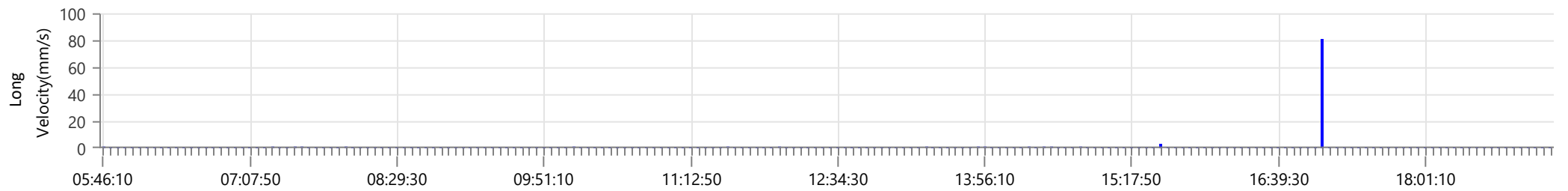
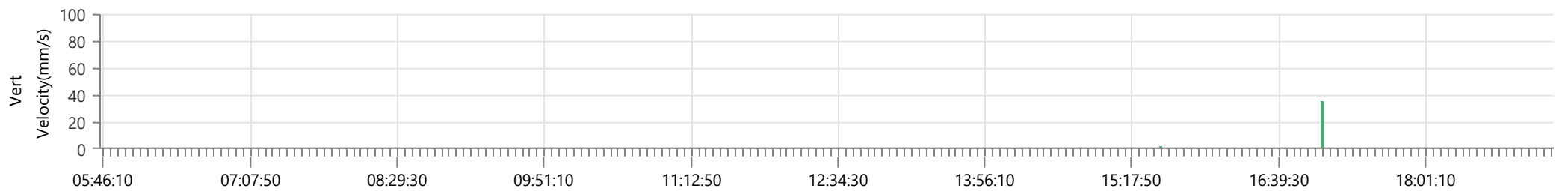
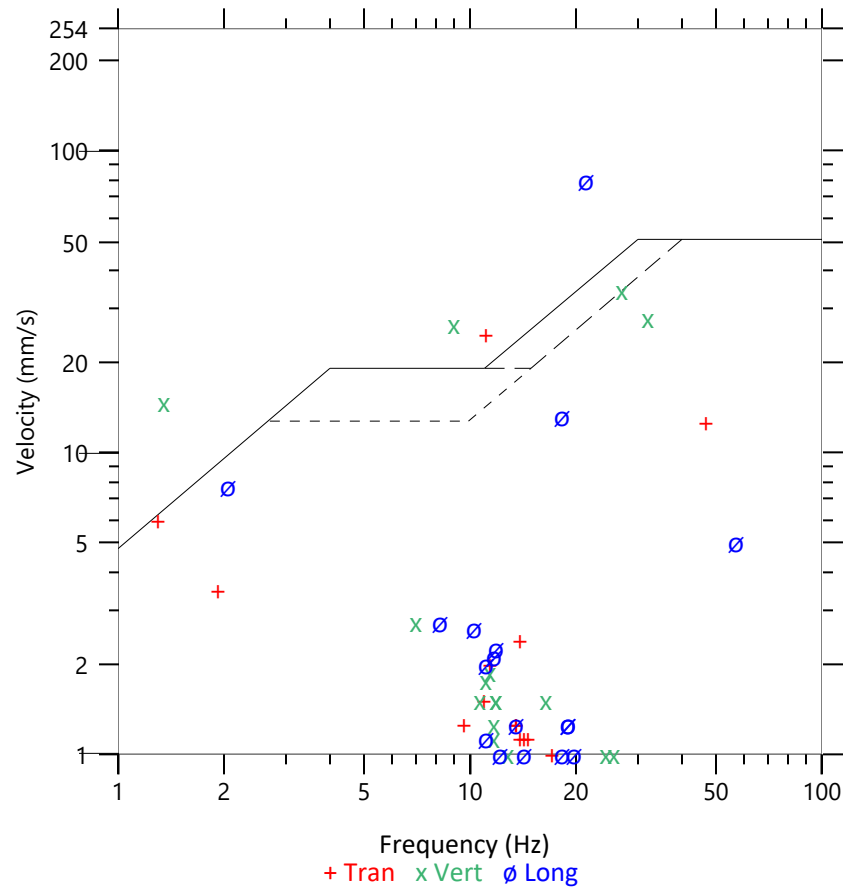
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	40.640 mm/s	35.179 mm/s	80.772 mm/s
Zero Crossing Frequency	N/A	26.9 Hz	21.3 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	17:05:00	17:04:35	17:05:35
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	7.9 Hz
Overswing Ratio	3.3	3.5	3.3

Peak Vector Sum 82.641 mm/s at June 5, 2023 17:05:35

ISEE Linear Microphone
Peak Sound Pressure Level 4.25 pa
Date Jun 5, 2023
Time 17:05:35
Zero Crossing Frequency 34.1 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 5, 2023 05:46:05
Finish June 5, 2023 19:13:30
Number of Intervals/Interval 9688.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230605054605.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

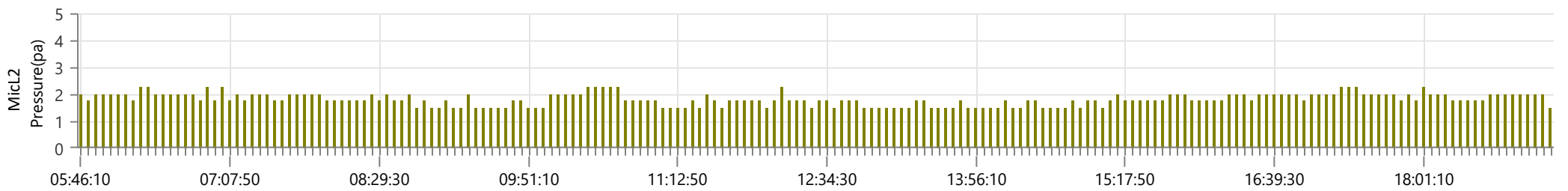
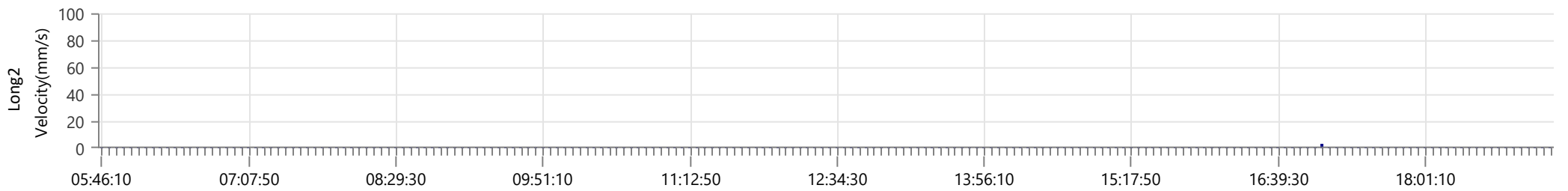
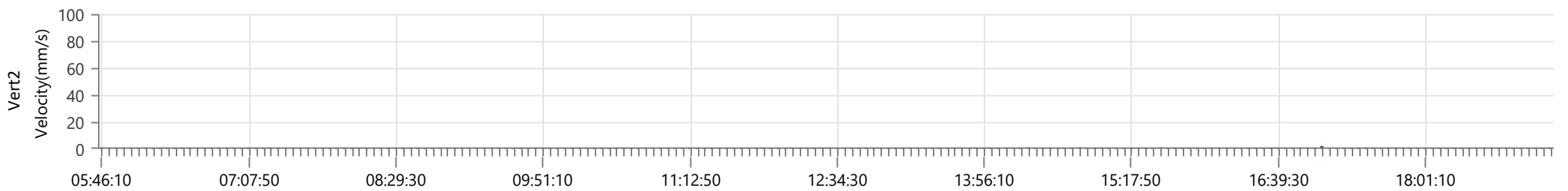
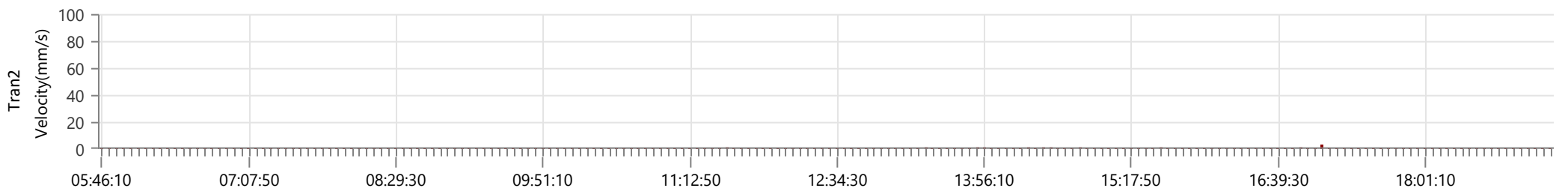
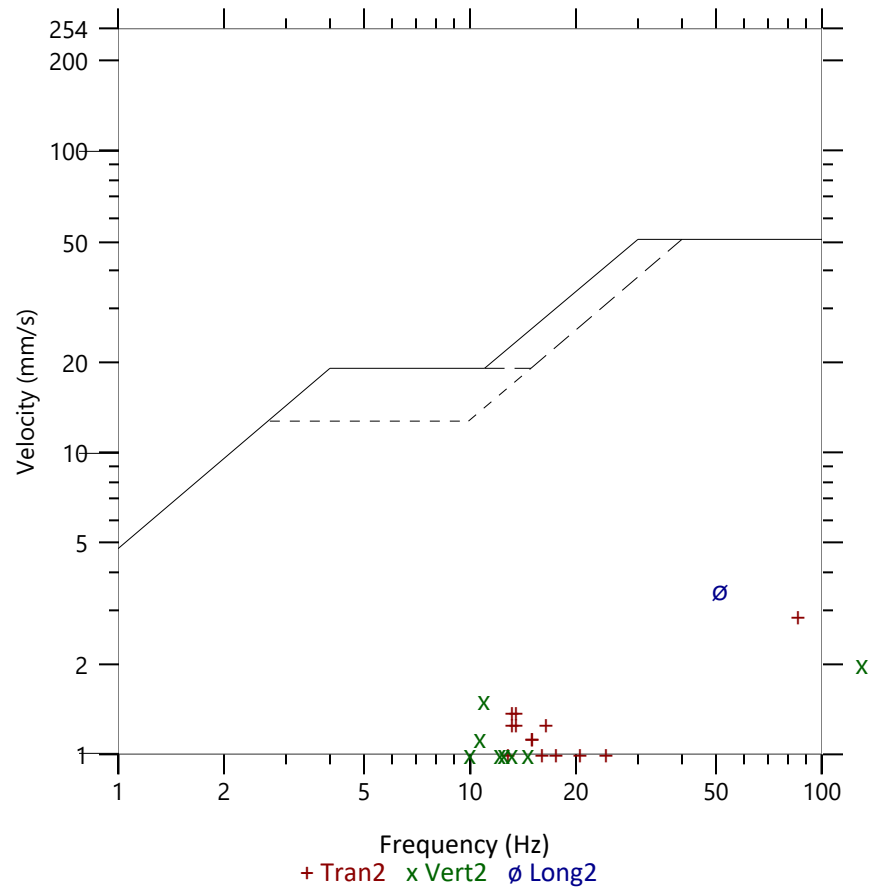
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.921 mm/s	2.032 mm/s	3.556 mm/s
Zero Crossing Frequency	85.3 Hz	>100 Hz	51.2 Hz
Date	Jun 5, 2023	Jun 5, 2023	Jun 5, 2023
Time	17:04:50	17:04:50	17:04:50
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.7 Hz	8.5 Hz	8.8 Hz
Overswing Ratio	3.3	3.2	4.8

Peak Vector Sum 3.657 mm/s at June 5, 2023 17:04:50

ISEE Linear Microphone	
Peak Sound Pressure Level	2.25 pa
Date	Jun 5, 2023
Time	06:20:10
Zero Crossing Frequency	>100 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 6, 2023 05:28:41
Finish June 6, 2023 18:15:32
Number of Intervals/Interval 9202.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230606052841.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

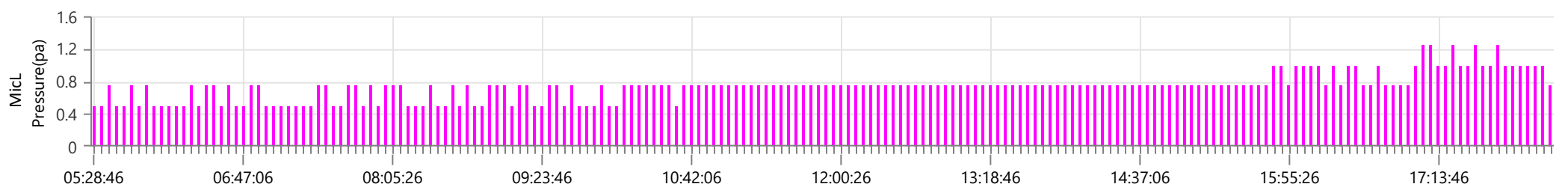
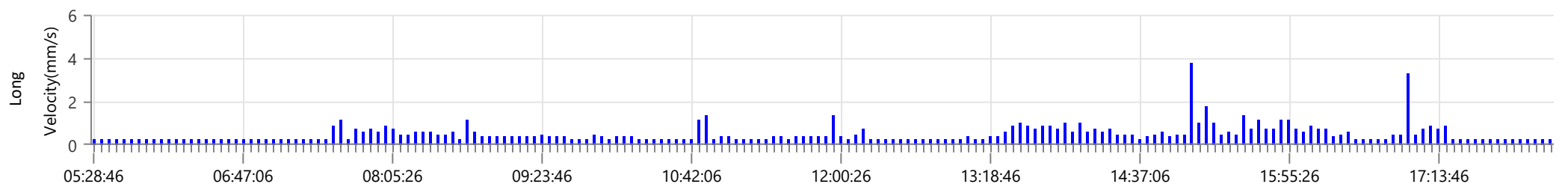
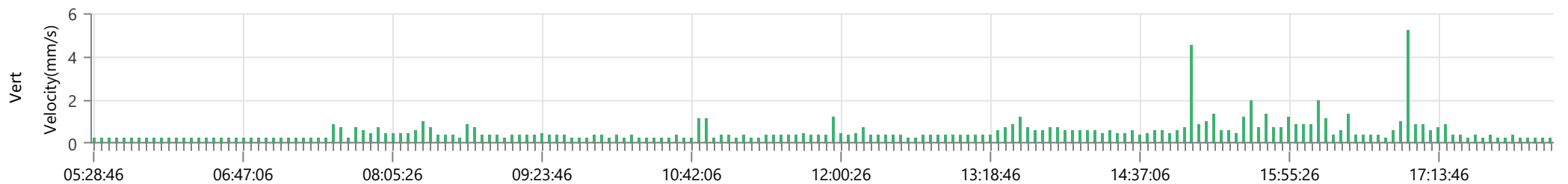
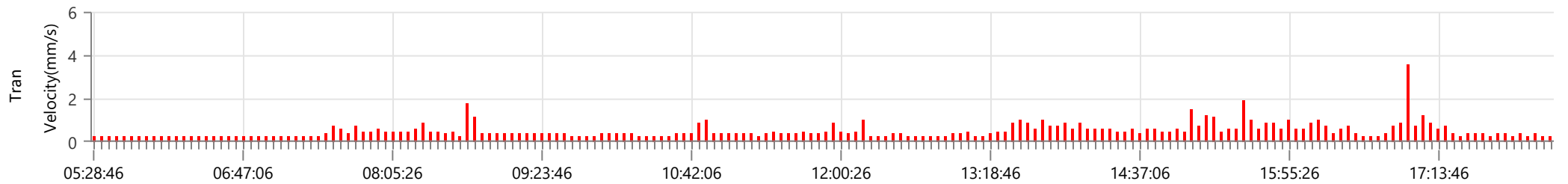
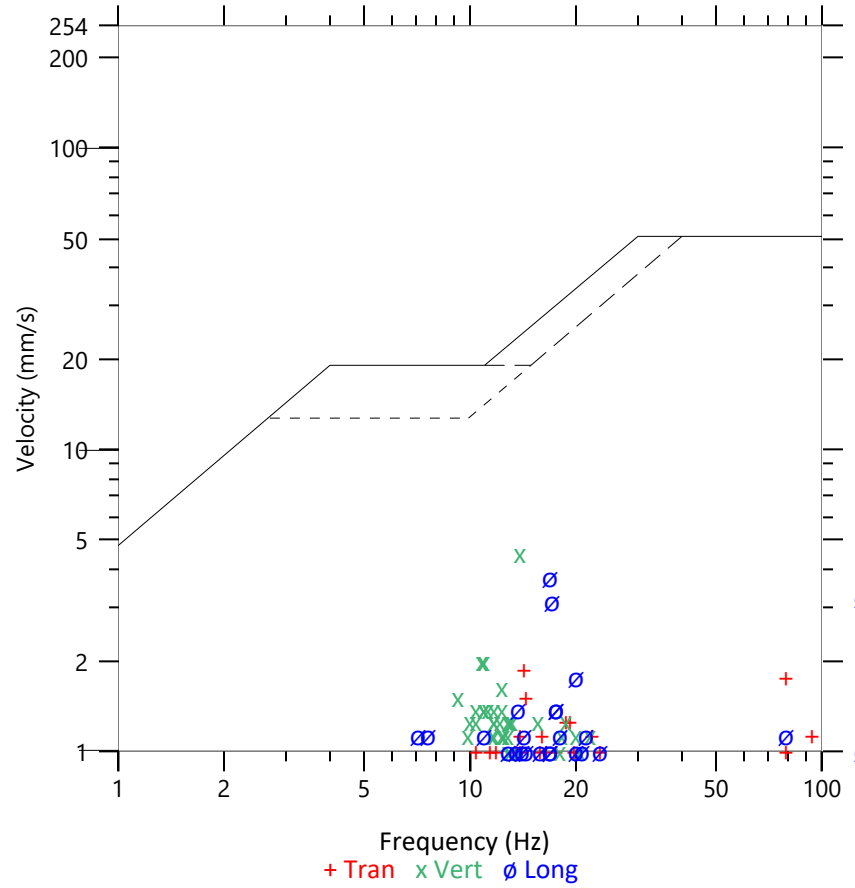
Extended Notes 51.44878 112.68037 51.44878 112.68029
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.556 mm/s	5.207 mm/s	3.810 mm/s
Zero Crossing Frequency	>100 Hz	>100 Hz	16.8 Hz
Date	Jun 6, 2023	Jun 6, 2023	Jun 6, 2023
Time	17:00:26	17:00:26	15:06:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	3.6	4.1	3.9

Peak Vector Sum 5.209 mm/s at June 6, 2023 17:00:26

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date Jun 6, 2023
 Time 17:09:46
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 6, 2023 05:28:41
Finish June 6, 2023 18:15:32
Number of Intervals/Interval 9202.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230606052841.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 30 willow point
WSP
User Name: KJ
rear of house facing berm

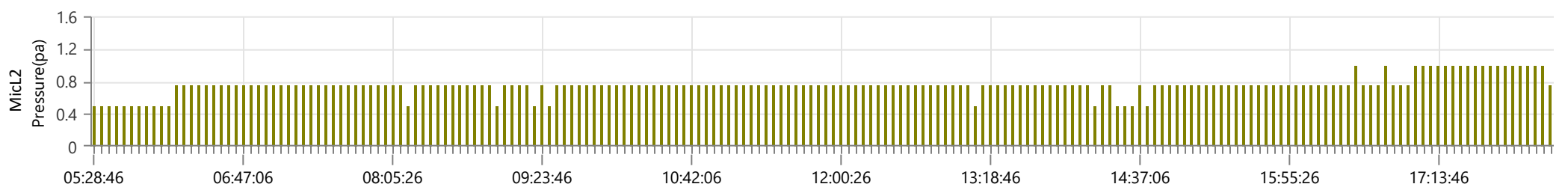
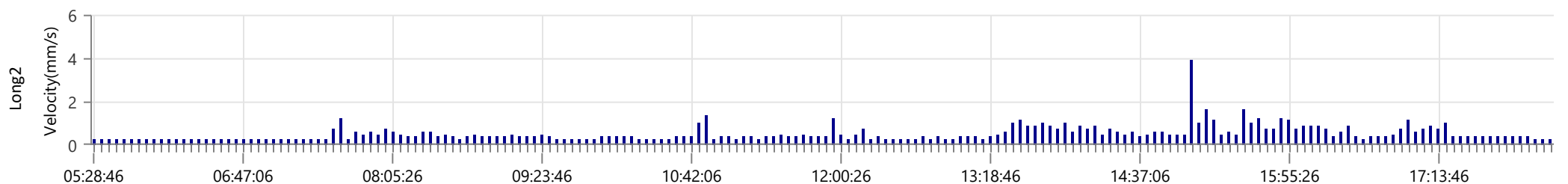
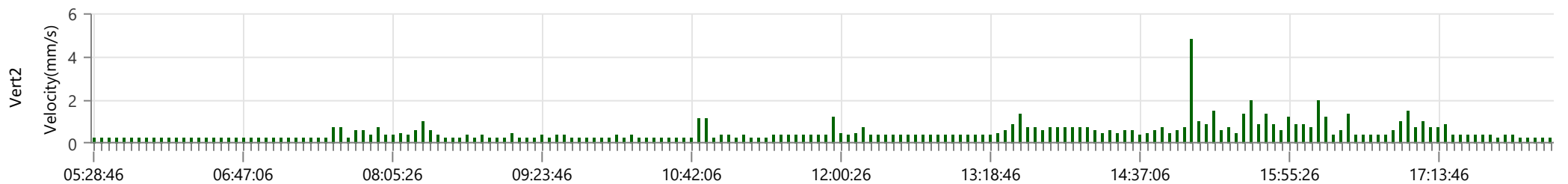
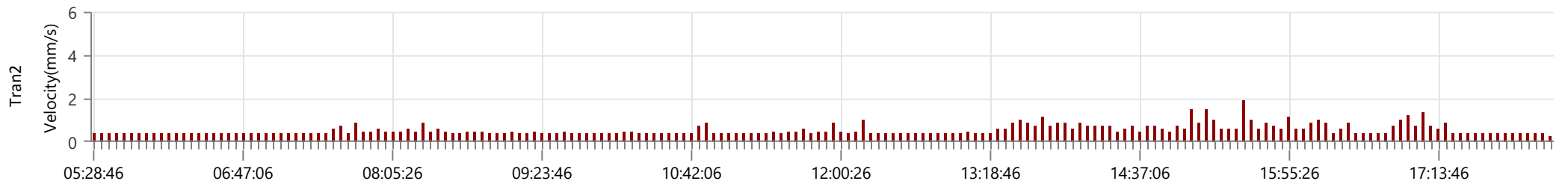
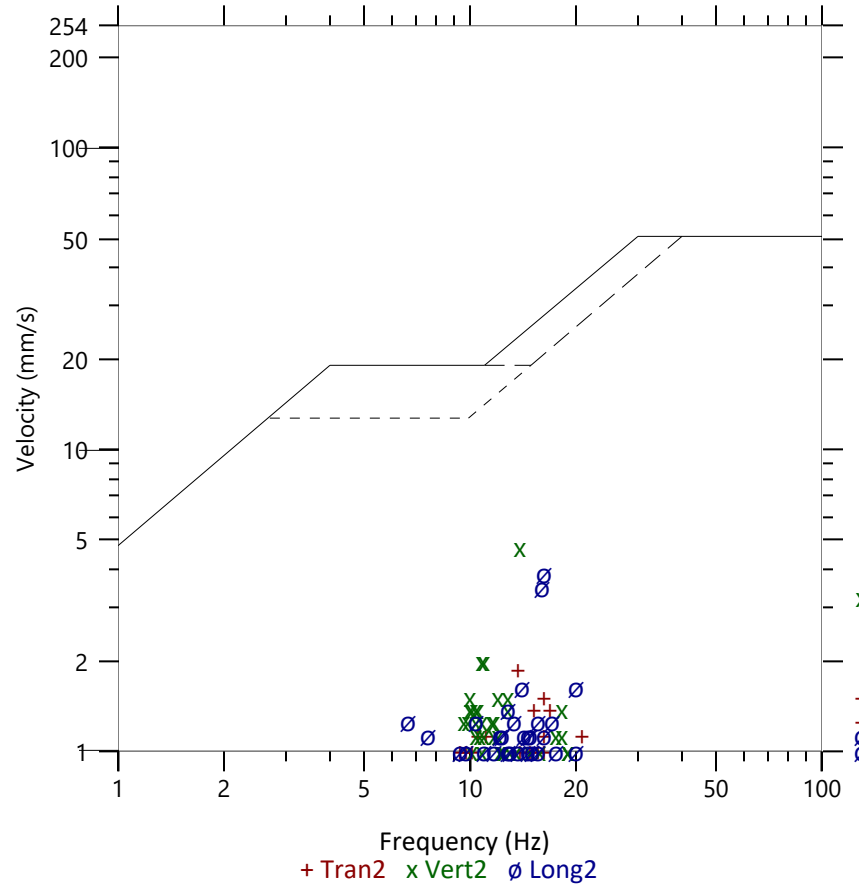
Extended Notes 51.44878 112.68037 51.44878 112.68029
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	4.826 mm/s	3.937 mm/s
Zero Crossing Frequency	13.7 Hz	13.8 Hz	16.3 Hz
Date	Jun 6, 2023	Jun 6, 2023	Jun 6, 2023
Time	15:33:56	15:06:51	15:06:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.4	3.4

Peak Vector Sum 4.966 mm/s at June 6, 2023 15:06:51

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date Jun 6, 2023
Time 16:30:46
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 6, 2023 05:38:23
Finish June 6, 2023 18:09:28
Number of Intervals/Interval 9013.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230606053823.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

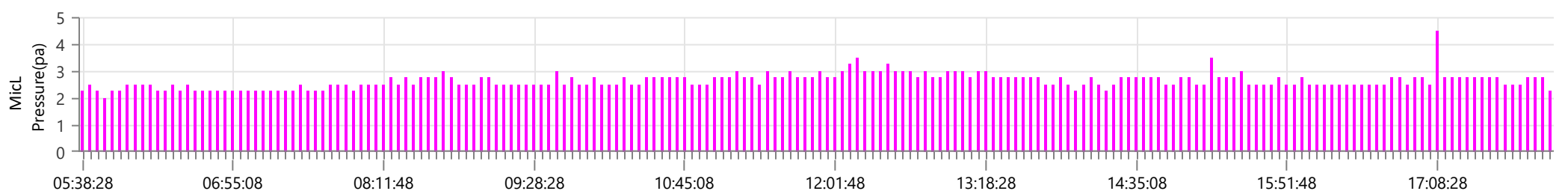
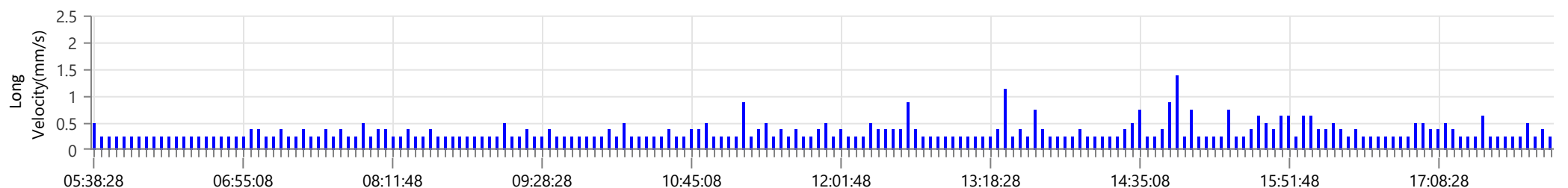
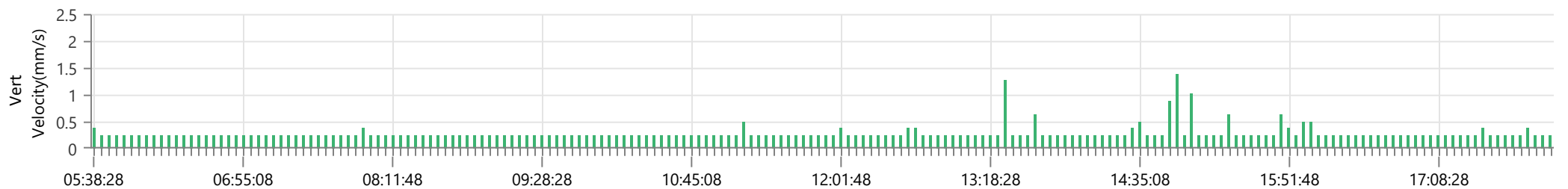
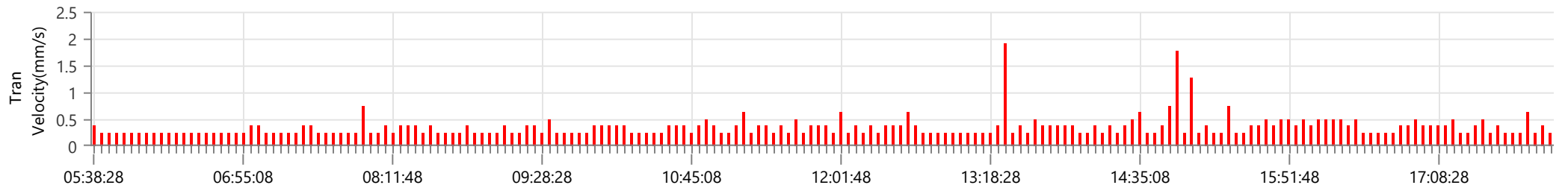
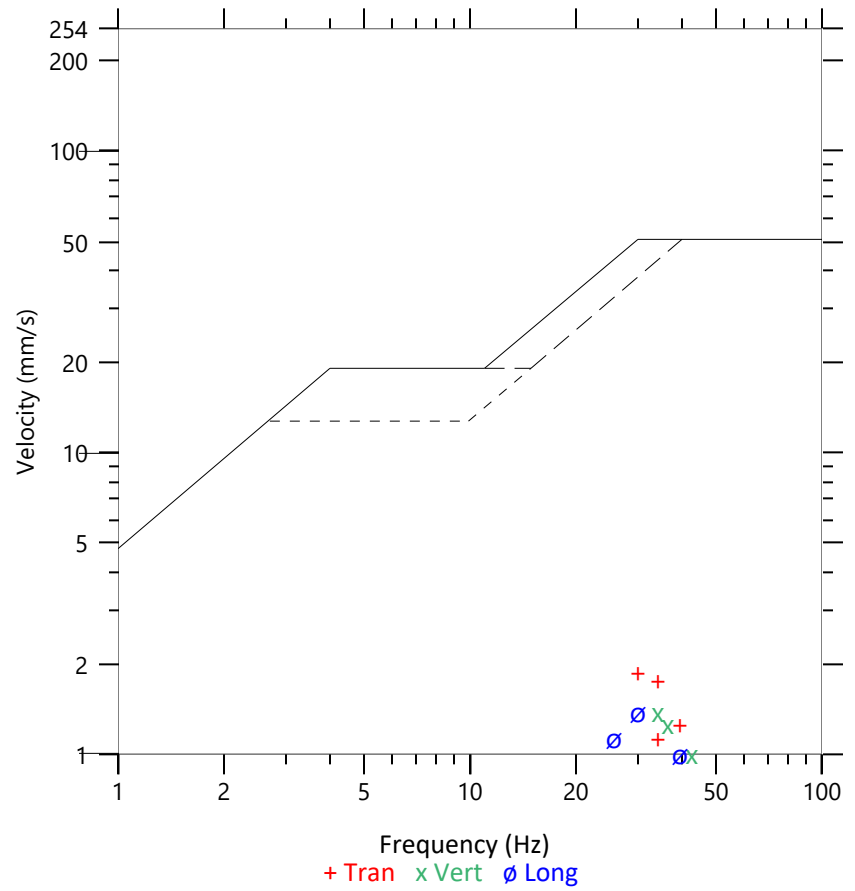
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.905 mm/s	1.397 mm/s	1.397 mm/s
Zero Crossing Frequency	30.1 Hz	34.1 Hz	30.1 Hz
Date	Jun 6, 2023	Jun 6, 2023	Jun 6, 2023
Time	13:28:23	14:57:03	14:57:03
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	8.2 Hz
Overswing Ratio	3.3	3.5	3.3

Peak Vector Sum 1.984 mm/s at June 6, 2023 13:28:23

ISEE Linear Microphone
 Peak Sound Pressure Level 4.50 pa
 Date Jun 6, 2023
 Time 17:09:08
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 6, 2023 05:38:23
Finish June 6, 2023 18:09:28
Number of Intervals/Interval 9013.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230606053823.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

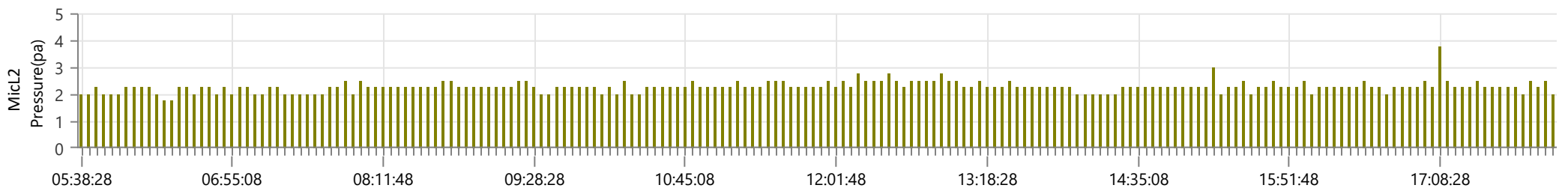
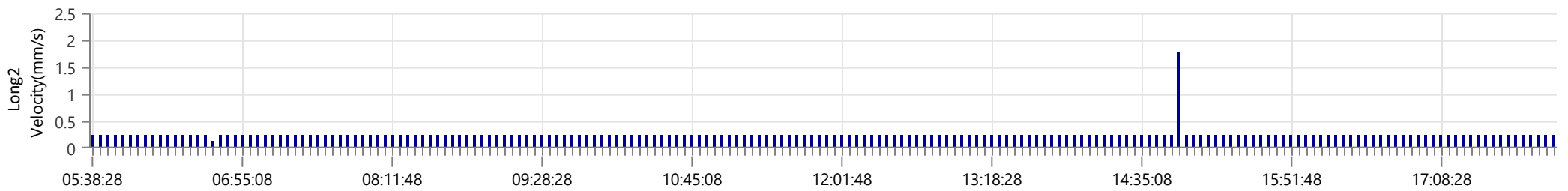
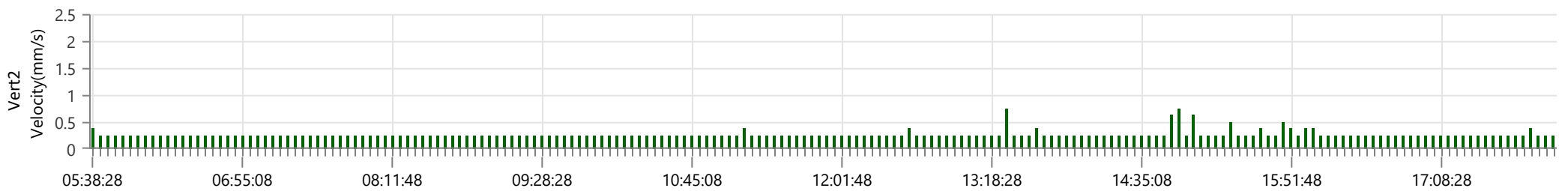
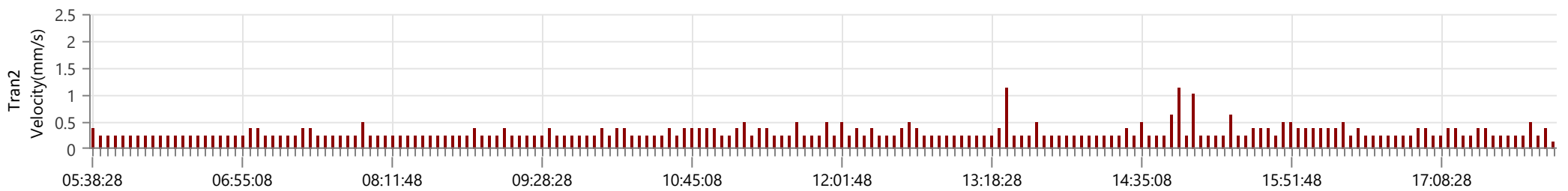
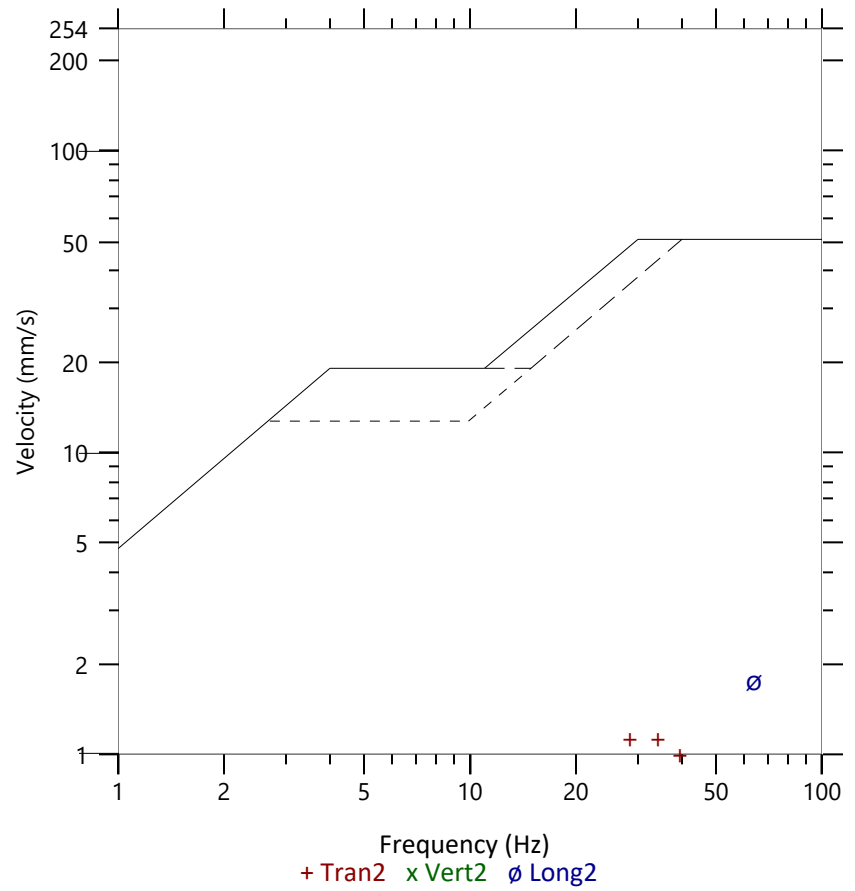
Extended Notes 51.44883 112.68244 51.44881 112.68243

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.143 mm/s	0.762 mm/s	1.778 mm/s
Zero Crossing Frequency	28.4 Hz	30.1 Hz	64.0 Hz
Date	Jun 6, 2023	Jun 6, 2023	Jun 6, 2023
Time	13:28:23	13:28:23	14:57:03
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.9 Hz	8.3 Hz	8.8 Hz
Overswing Ratio	3.2	3.2	4.8
Peak Vector Sum	1.854 mm/s at June 6, 2023 14:57:03		

ISEE Linear Microphone
Peak Sound Pressure Level 3.75 pa
Date Jun 6, 2023
Time 17:08:58
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 7, 2023 05:43:53
Finish June 7, 2023 18:14:08
Number of Intervals/Interval 9003.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230607054353.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

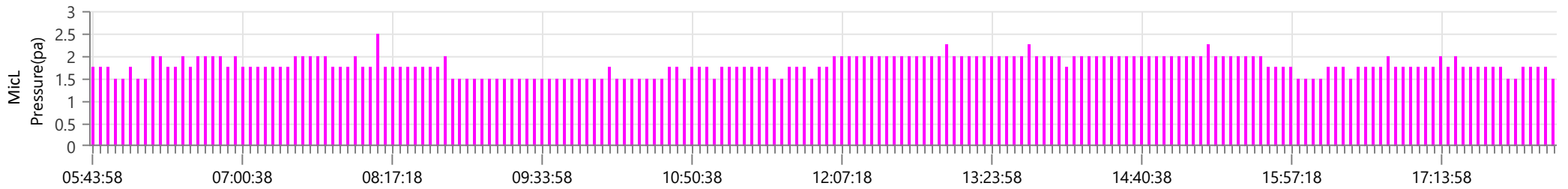
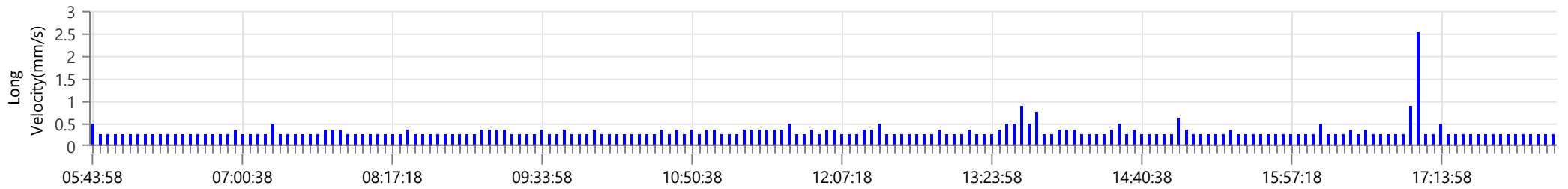
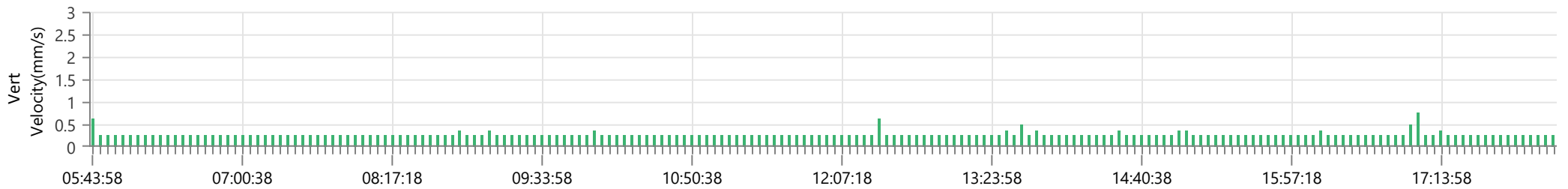
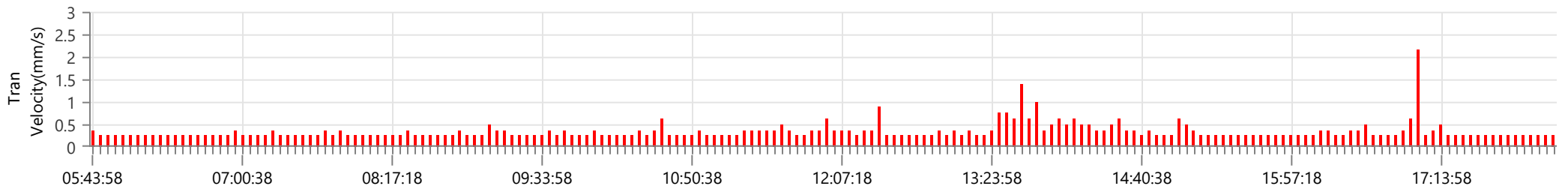
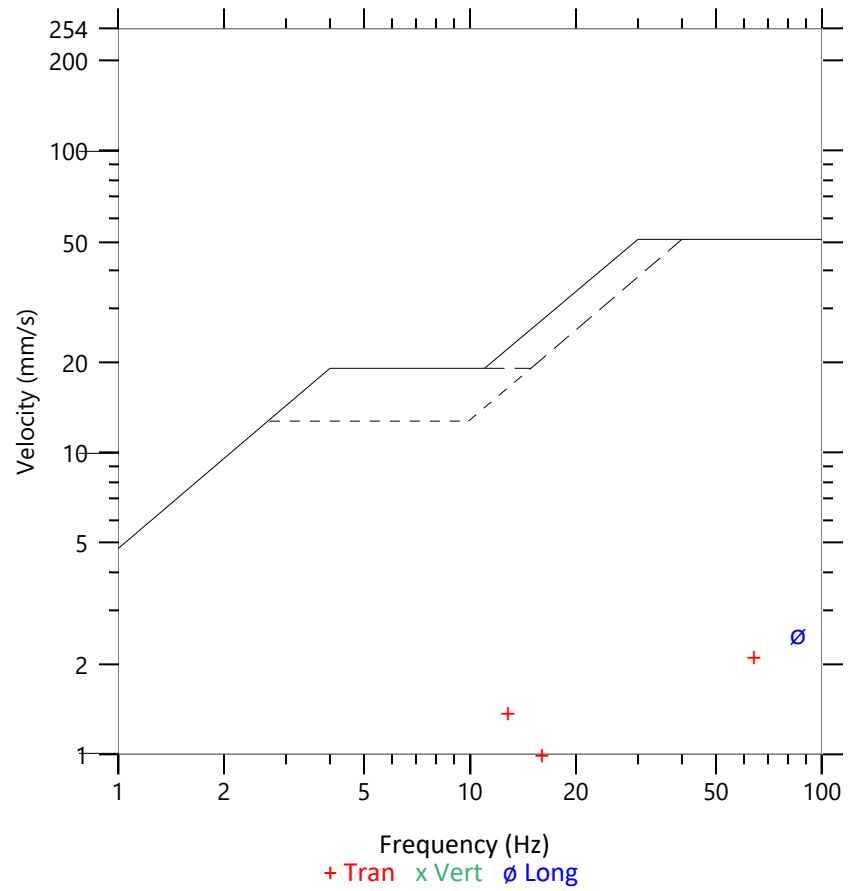
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.159 mm/s	0.762 mm/s	2.540 mm/s
Zero Crossing Frequency	64.0 Hz	>100 Hz	85.3 Hz
Date	Jun 7, 2023	Jun 7, 2023	Jun 7, 2023
Time	17:04:28	17:04:28	17:04:28
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	7.9 Hz
Overswing Ratio	3.2	3.4	3.3

Peak Vector Sum 3.341 mm/s at June 7, 2023 17:04:28

ISEE Linear Microphone
 Peak Sound Pressure Level 2.50 pa
 Date Jun 7, 2023
 Time 08:09:53
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 7, 2023 05:43:53
Finish June 7, 2023 18:14:08
Number of Intervals/Interval 9003.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230607054353.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

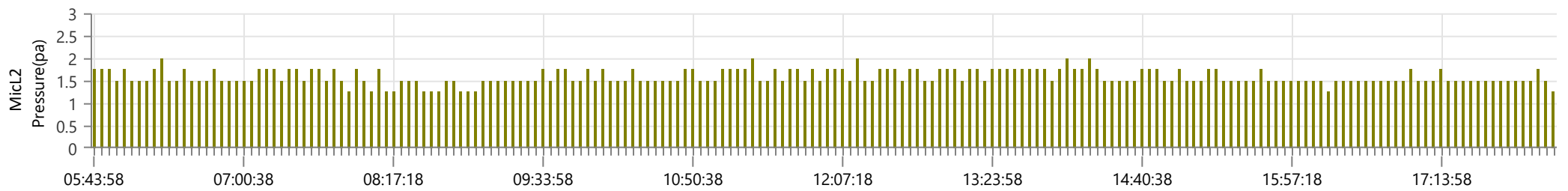
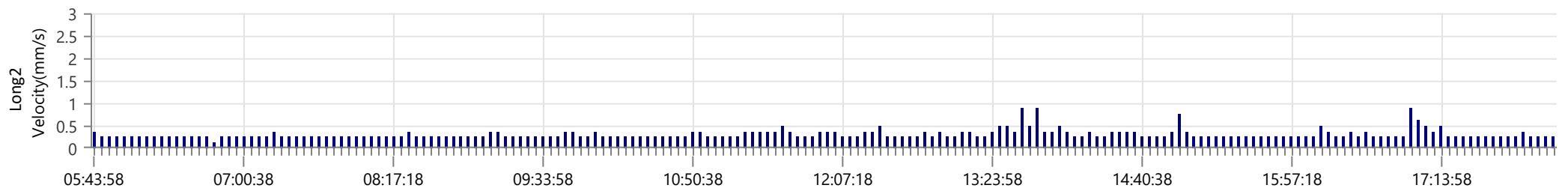
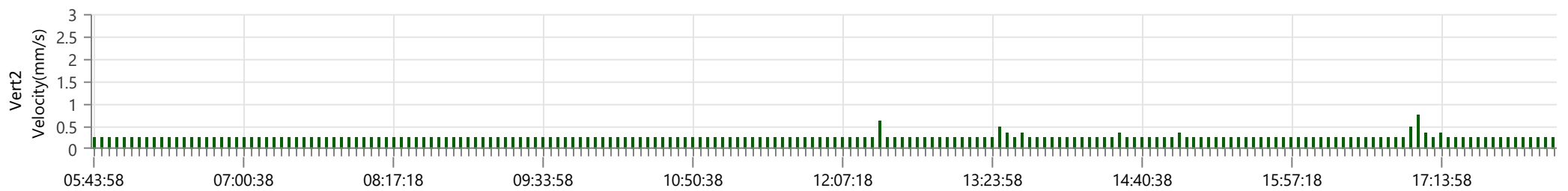
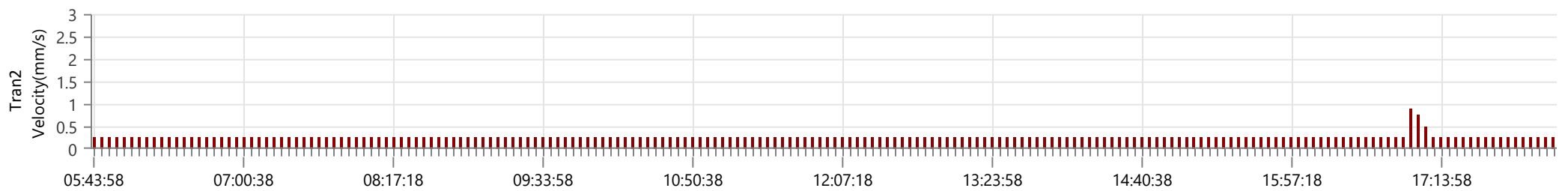
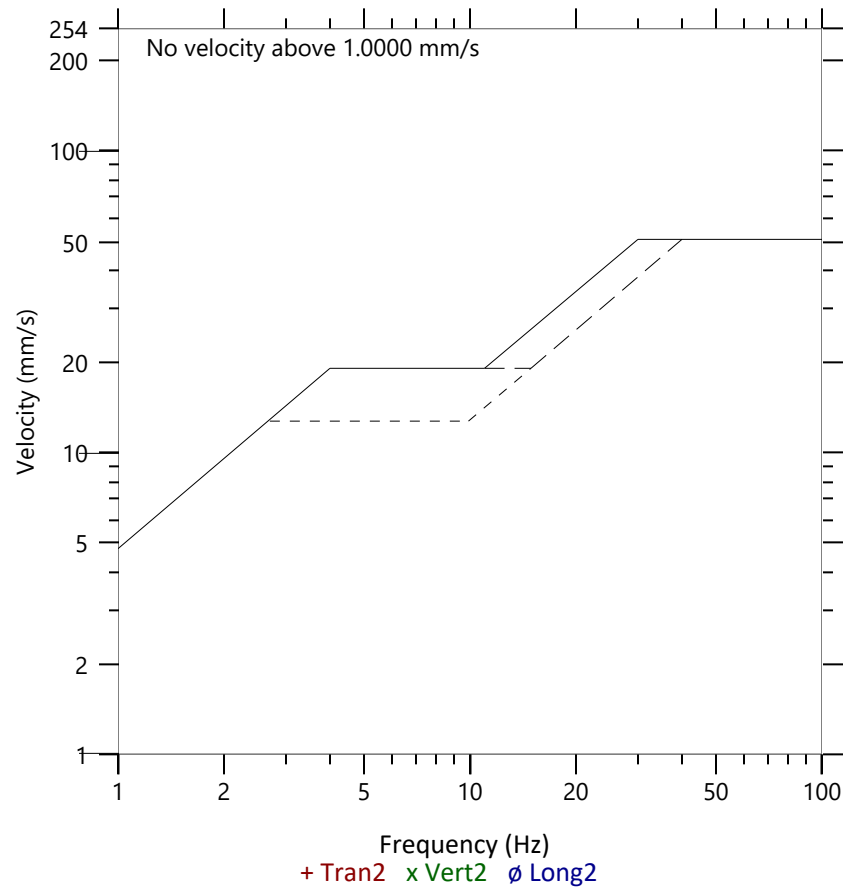
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.889 mm/s	0.762 mm/s	0.889 mm/s
Zero Crossing Frequency	73.1 Hz	64.0 Hz	17.7 Hz
Date	Jun 7, 2023	Jun 7, 2023	Jun 7, 2023
Time	16:58:53	17:04:23	13:40:53
Sensor Check	✗ Check	✓ Passed	✗ Check
Frequency	13.3 Hz	8.3 Hz	8.5 Hz
Overswing Ratio	5.3	3.2	3.5

Peak Vector Sum 1.063 mm/s at June 7, 2023 17:04:23

ISEE Linear Microphone
 Peak Sound Pressure Level 2.00 pa
 Date Jun 7, 2023
 Time 06:18:58
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 7, 2023 08:01:47
Finish June 7, 2023 18:20:25
Number of Intervals/Interval 7423.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230607080147.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44881 112.68034 51.44878 112.68038

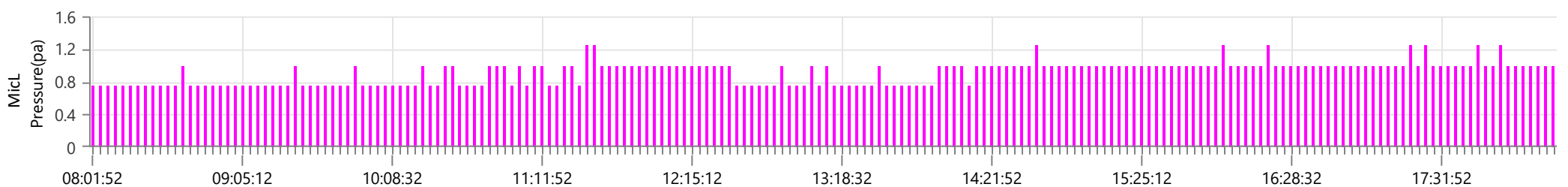
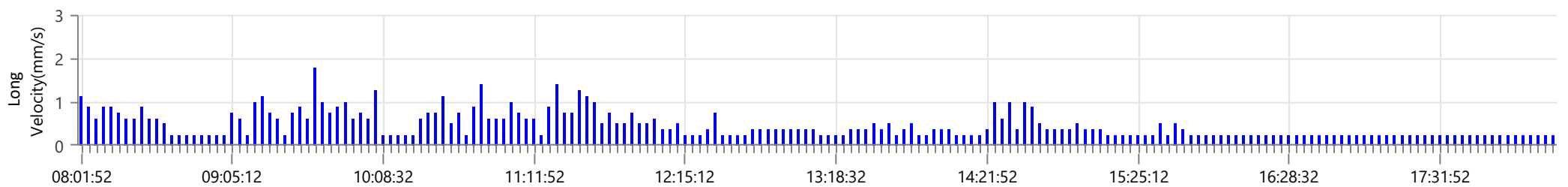
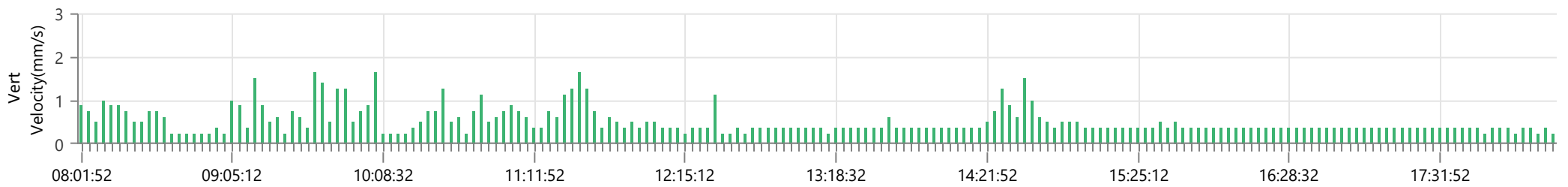
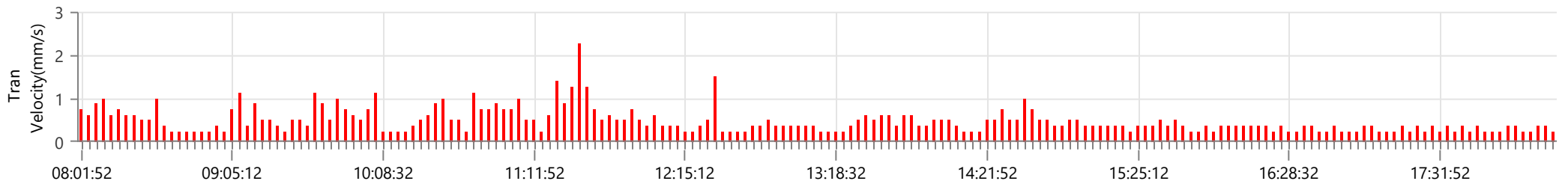
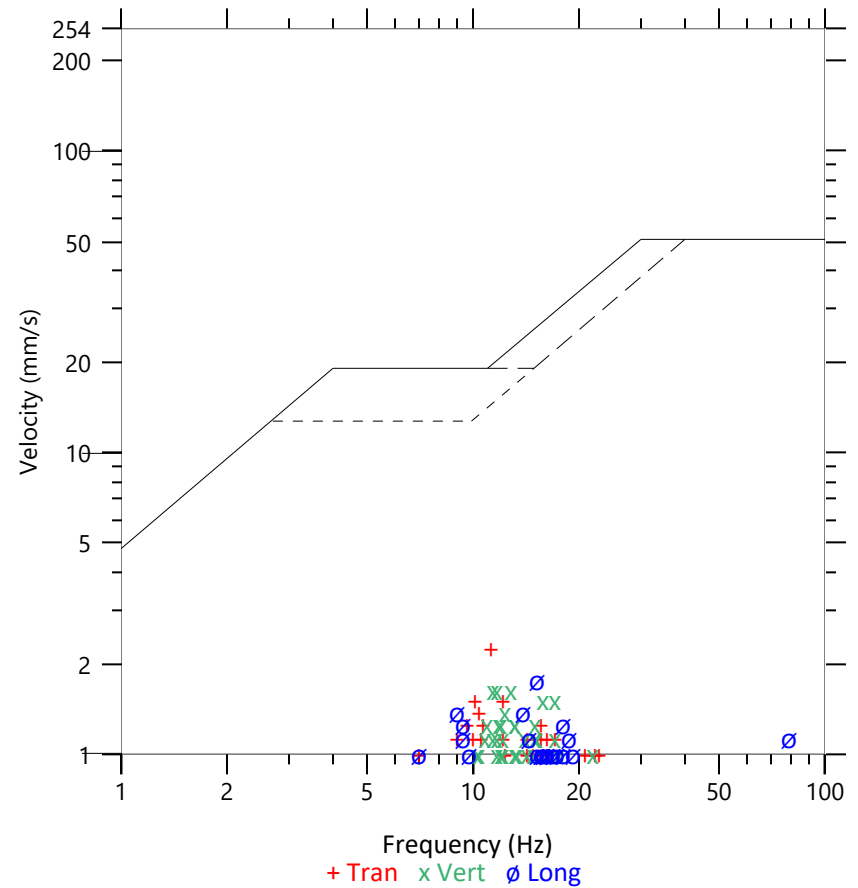
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.286 mm/s	1.651 mm/s	1.778 mm/s
Zero Crossing Frequency	11.3 Hz	11.4 Hz	15.3 Hz
Date	Jun 7, 2023	Jun 7, 2023	Jun 7, 2023
Time	11:31:52	09:40:42	09:40:42
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.5	3.9	3.8

Peak Vector Sum 2.440 mm/s at June 7, 2023 11:31:52

ISEE Linear Microphone
Peak Sound Pressure Level 1.25 pa
Date Jun 7, 2023
Time 11:31:52
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 7, 2023 08:01:47
Finish June 7, 2023 18:20:25
Number of Intervals/Interval 7423.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230607080147.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44881 112.68034 51.44878 112.68038

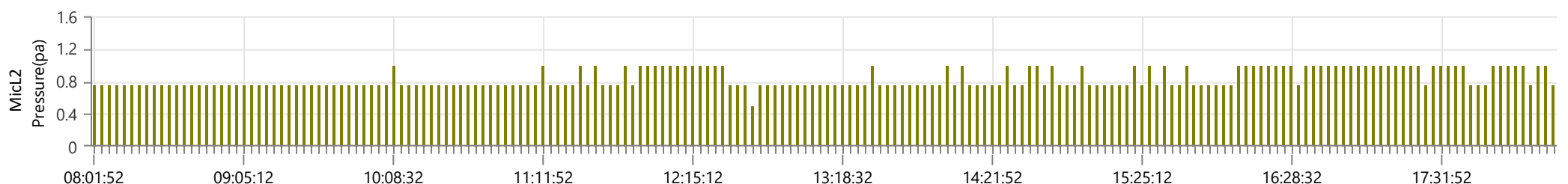
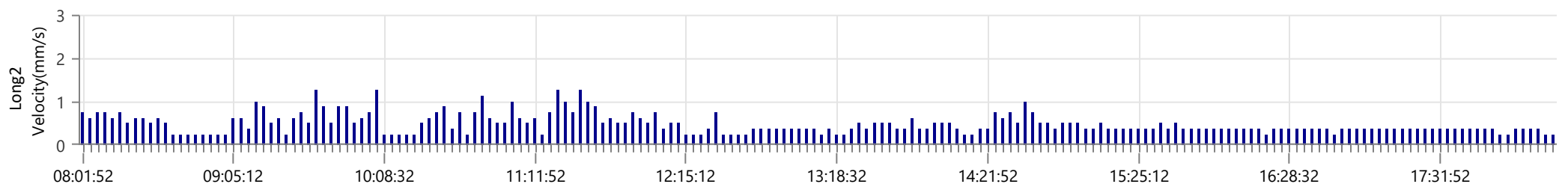
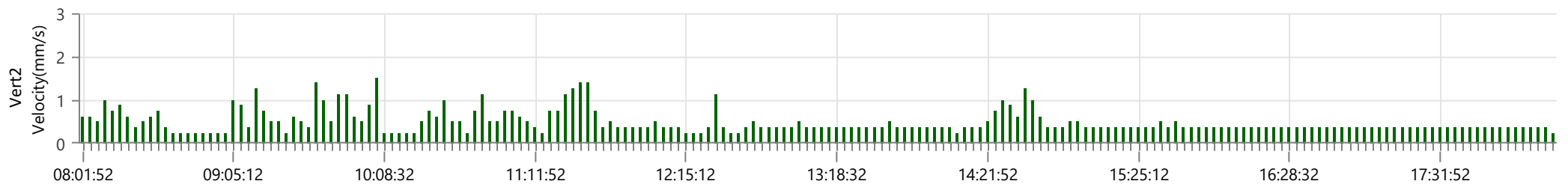
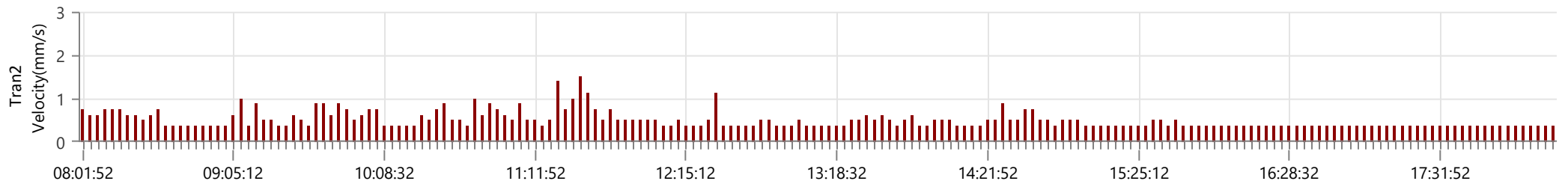
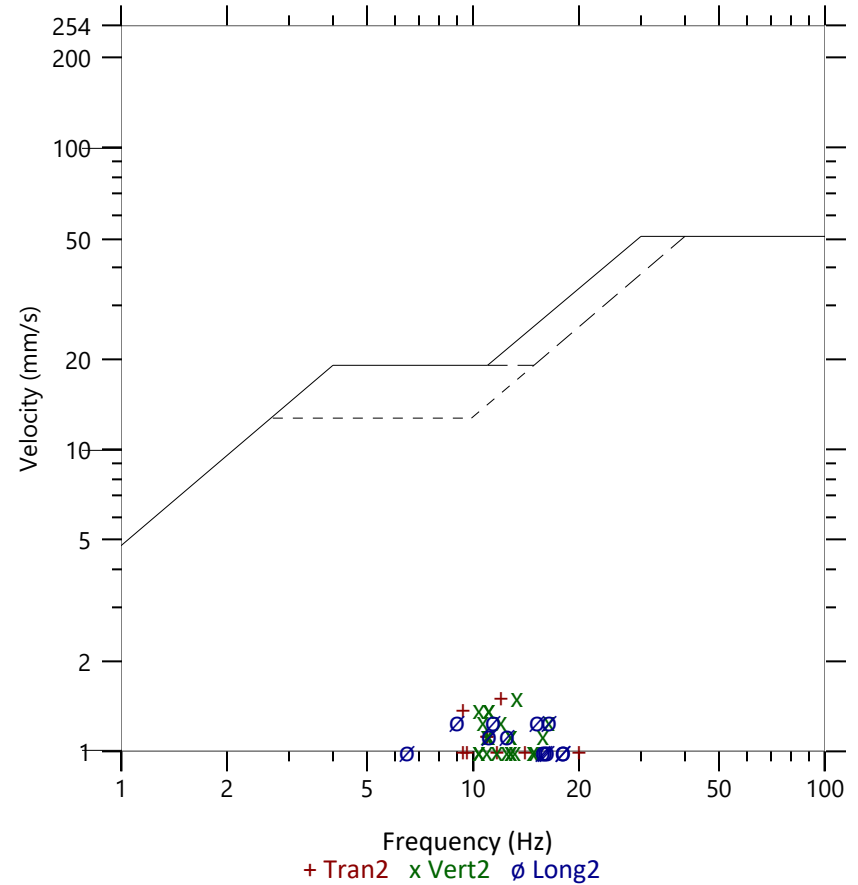
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.524 mm/s	1.270 mm/s
Zero Crossing Frequency	12.0 Hz	13.3 Hz	15.3 Hz
Date	Jun 7, 2023	Jun 7, 2023	Jun 7, 2023
Time	11:31:52	10:05:32	09:40:42
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	11.3 Hz	7.8 Hz	7.9 Hz
Overswing Ratio	5.4	3.4	3.3

Peak Vector Sum 1.943 mm/s at June 7, 2023 11:31:52

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date Jun 7, 2023
Time 10:09:07
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 8, 2023 06:19:44
Finish June 8, 2023 19:07:14
Number of Intervals/Interval 9210.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230608061944.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

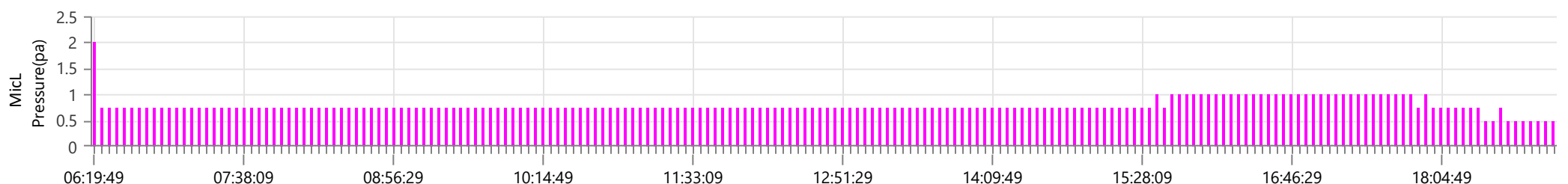
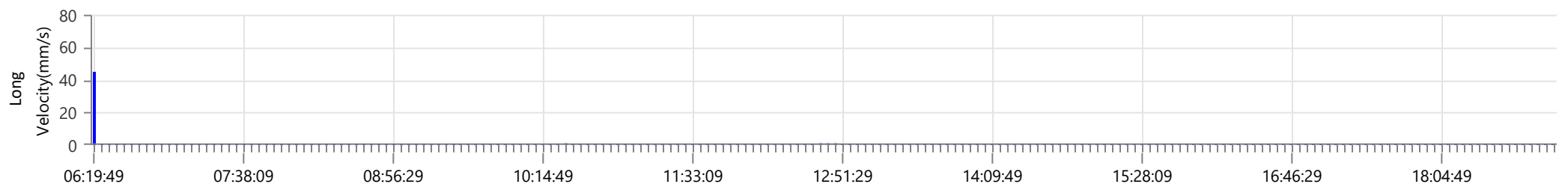
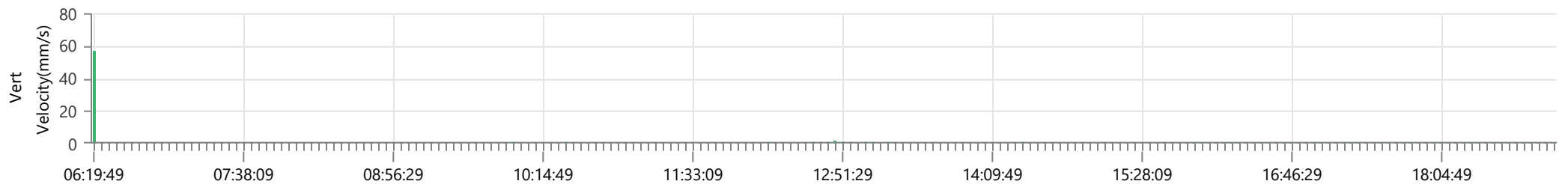
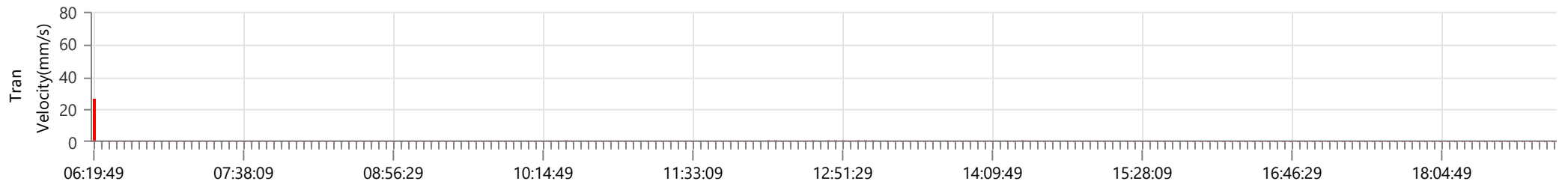
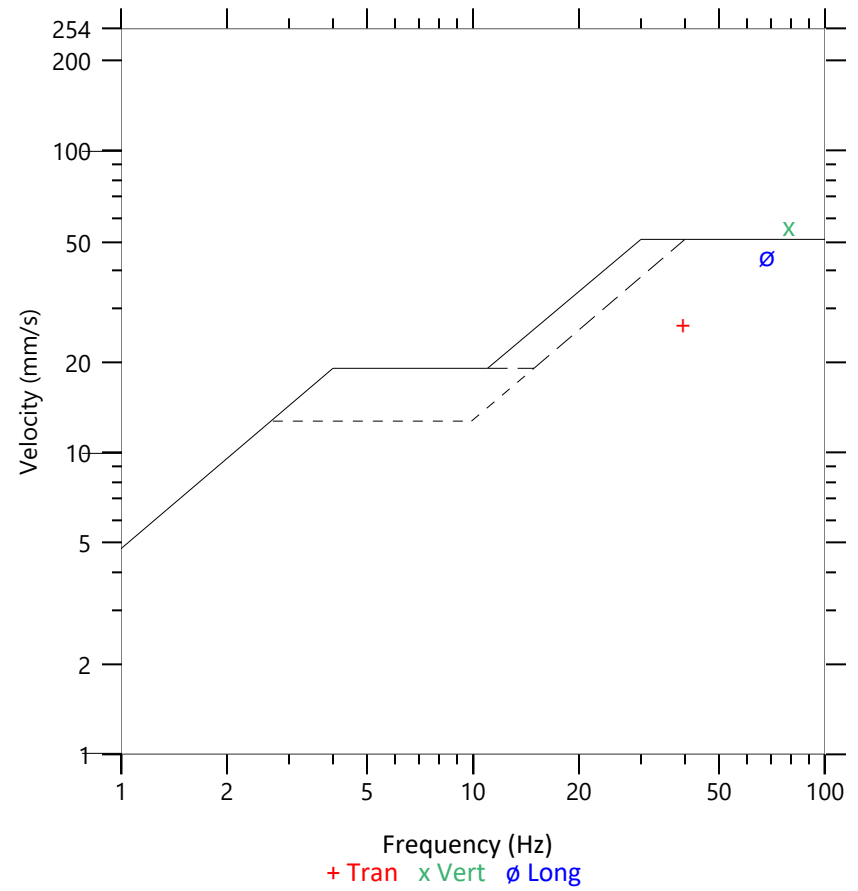
Extended Notes 51.44881 112.68034 51.44878 112.68038
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	26.797 mm/s	57.277 mm/s	45.466 mm/s
Zero Crossing Frequency	39.4 Hz	78.8 Hz	68.3 Hz
Date	Jun 8, 2023	Jun 8, 2023	Jun 8, 2023
Time	06:19:54	06:19:54	06:19:54
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	3.6	4.1	3.9

Peak Vector Sum 71.537 mm/s at June 8, 2023 06:19:54

ISEE Linear Microphone
Peak Sound Pressure Level 2.00 pa
Date Jun 8, 2023
Time 06:19:54
Zero Crossing Frequency 30.1 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 8, 2023 06:19:44
Finish June 8, 2023 19:07:14
Number of Intervals/Interval 9210.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230608061944.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

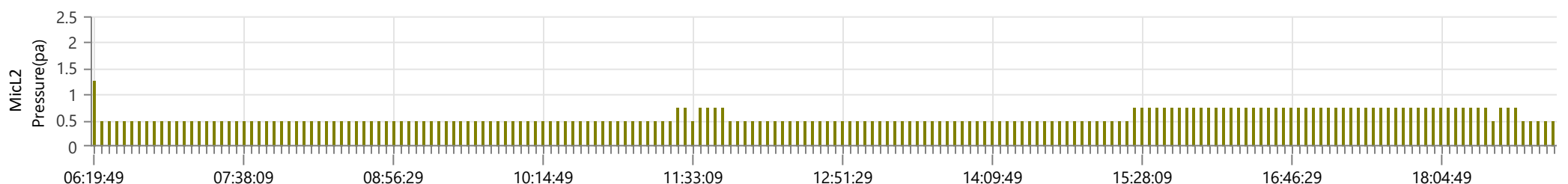
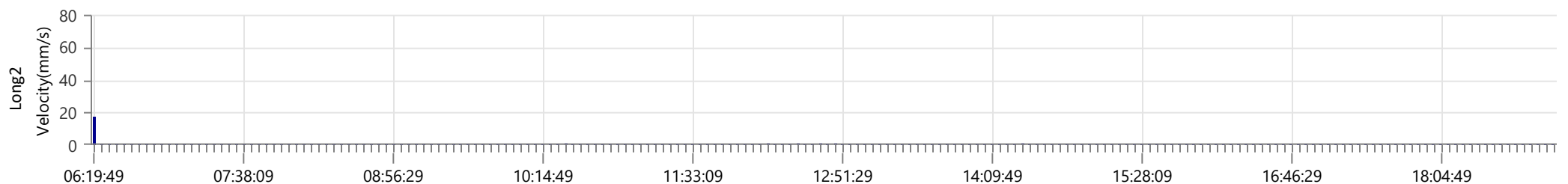
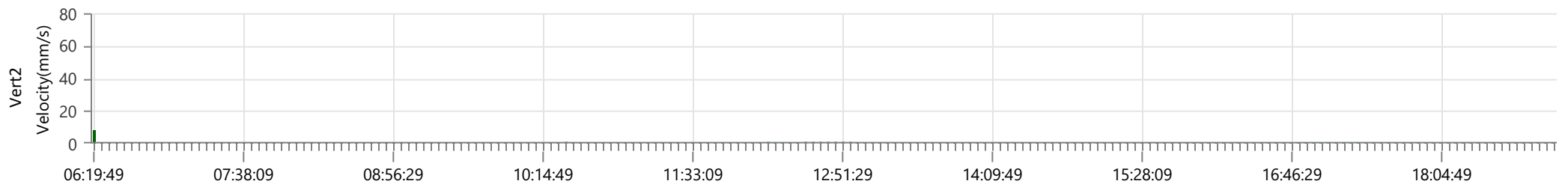
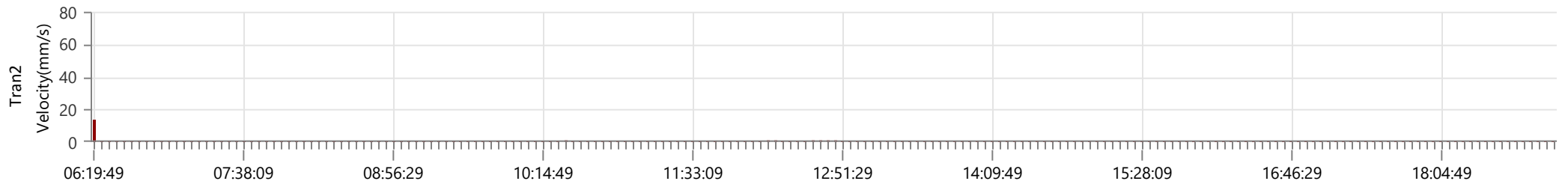
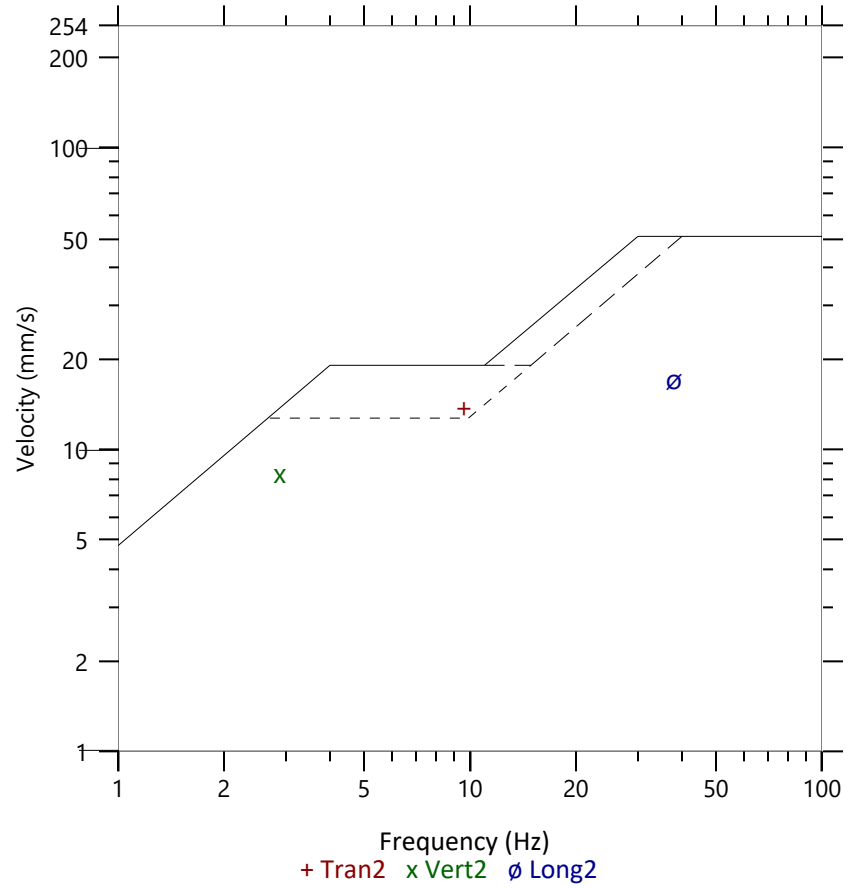
Extended Notes 51.44881 112.68034 51.44878 112.68038

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	14.097 mm/s	8.509 mm/s	17.272 mm/s
Zero Crossing Frequency	9.7 Hz	2.9 Hz	37.9 Hz
Date	Jun 8, 2023	Jun 8, 2023	Jun 8, 2023
Time	06:19:59	06:19:59	06:19:59
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	9.4 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	4.0	3.4	3.4
Peak Vector Sum	18.448 mm/s at June 8, 2023 06:19:59		

ISEE Linear Microphone
Peak Sound Pressure Level 1.25 pa
Date Jun 8, 2023
Time 06:19:59
Zero Crossing Frequency 4.2 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 9, 2023 07:00:14
Finish June 9, 2023 17:21:03
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230609070014.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

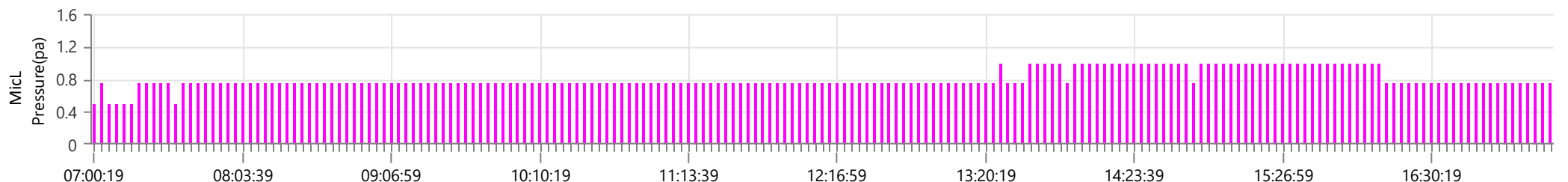
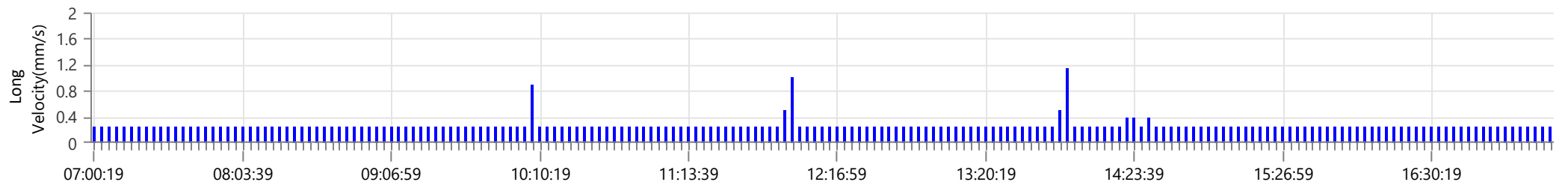
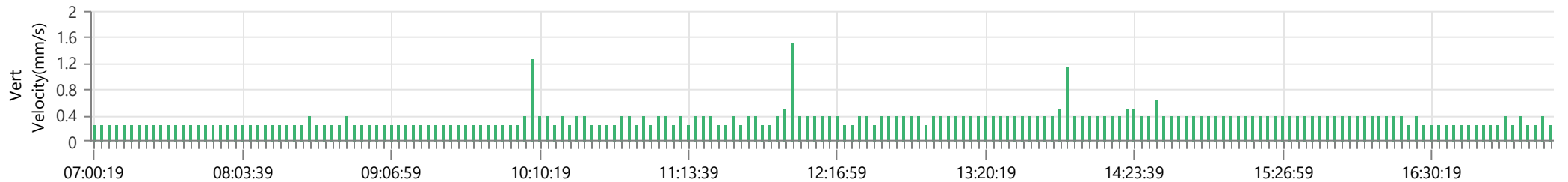
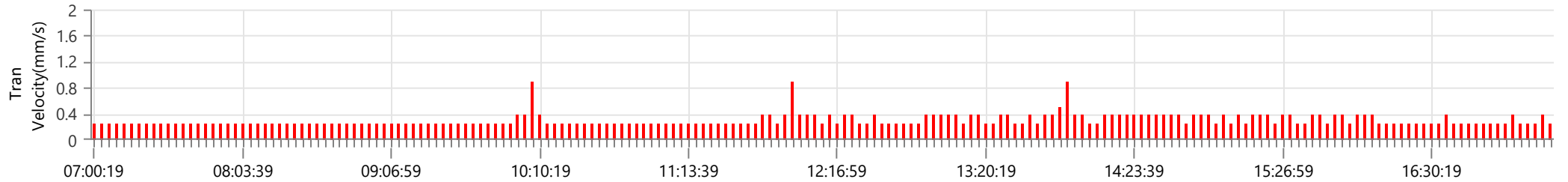
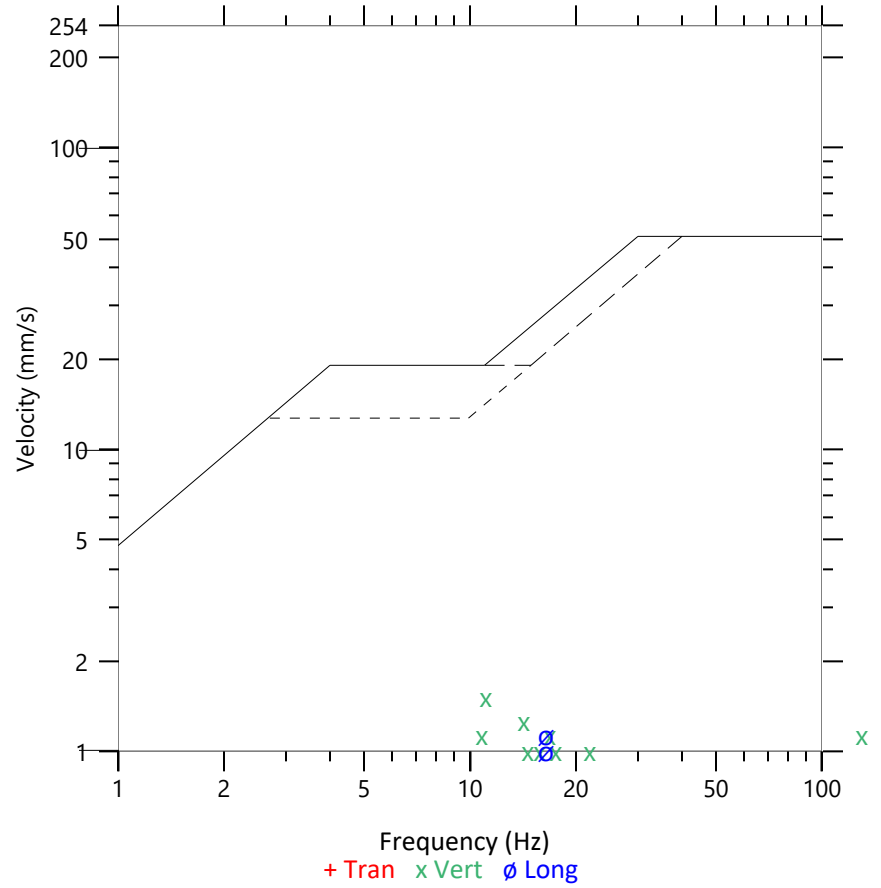
Extended Notes 51.44881 112.68034 51.44878 112.68038
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.889 mm/s	1.524 mm/s	1.143 mm/s
Zero Crossing Frequency	15.5 Hz	11.1 Hz	16.5 Hz
Date	Jun 9, 2023	Jun 9, 2023	Jun 9, 2023
Time	10:08:54	11:58:59	13:55:44
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.6	4.0	3.8

Peak Vector Sum 1.651 mm/s at June 9, 2023 11:58:59

ISEE Linear Microphone
Peak Sound Pressure Level 1.00 pa
Date Jun 9, 2023
Time 13:28:49
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 9, 2023 07:00:14
Finish June 9, 2023 17:21:03
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230609070014.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44881 112.68034 51.44878 112.68038

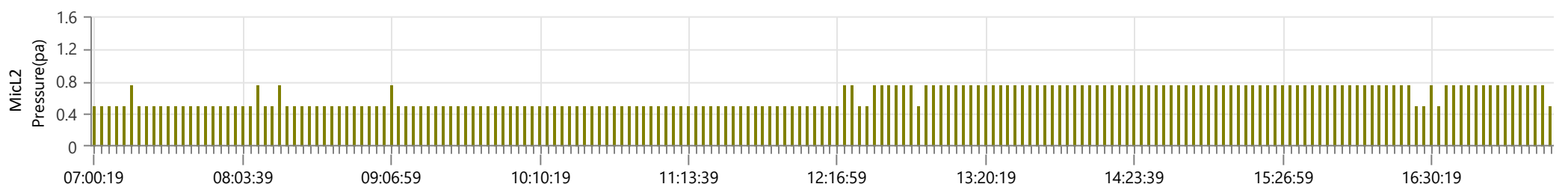
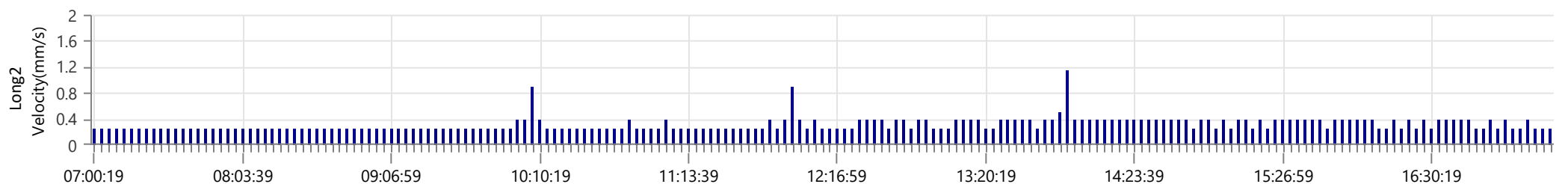
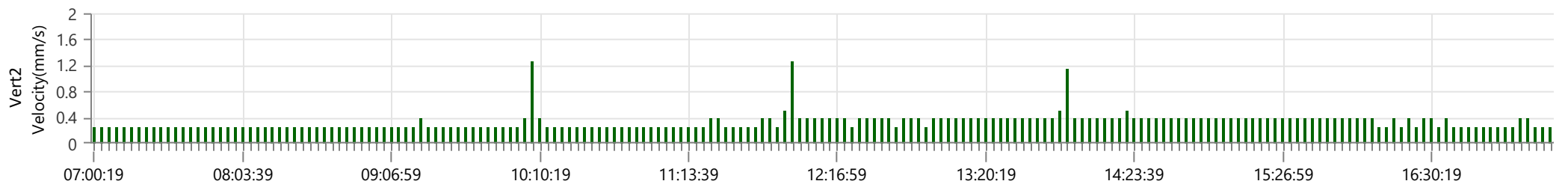
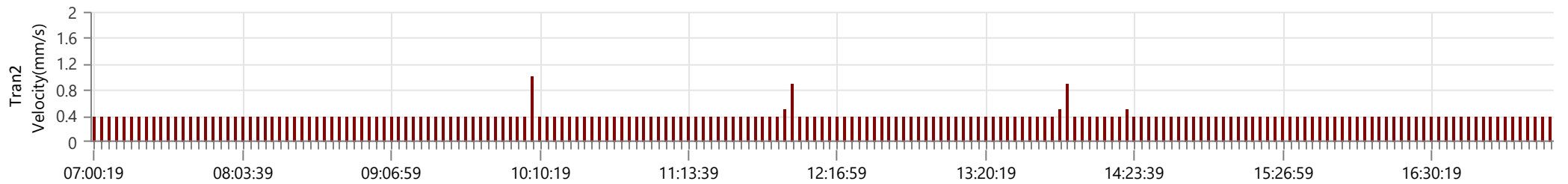
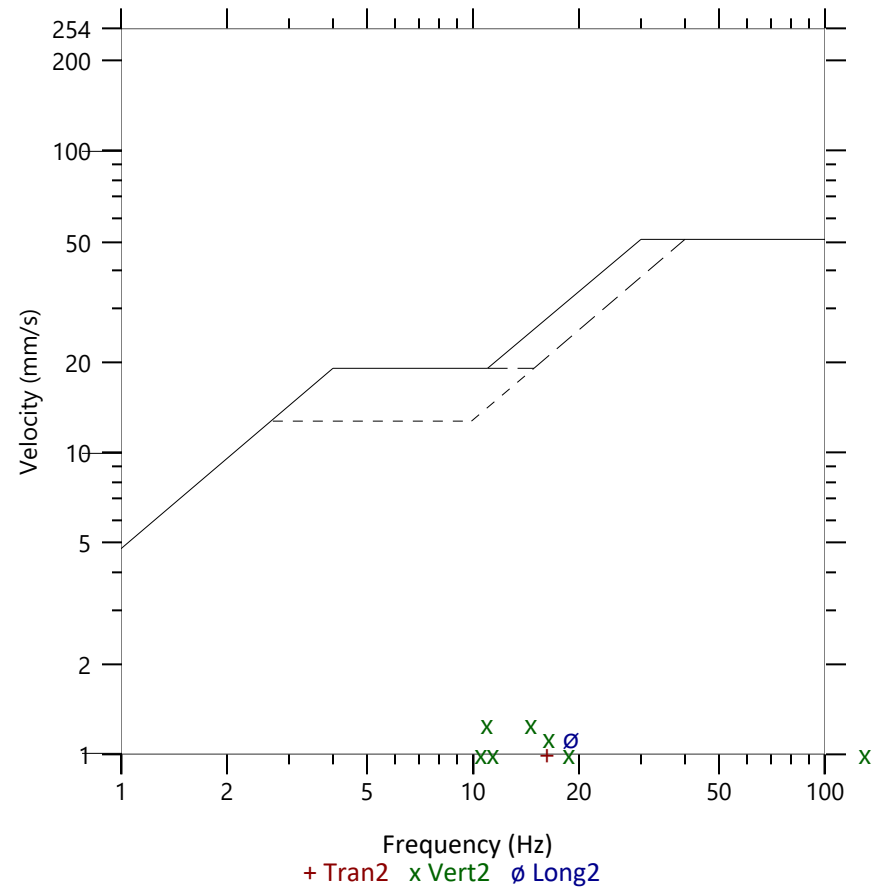
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.016 mm/s	1.270 mm/s	1.143 mm/s
Zero Crossing Frequency	16.3 Hz	14.6 Hz	19.0 Hz
Date	Jun 9, 2023	Jun 9, 2023	Jun 9, 2023
Time	10:08:54	10:08:54	13:55:44
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.4	3.3	3.4

Peak Vector Sum 1.470 mm/s at June 9, 2023 10:08:54

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Jun 9, 2023
 Time 07:17:19
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 8, 2023 06:10:45
Finish June 8, 2023 19:00:44
Number of Intervals/Interval 9239.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230608061045.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

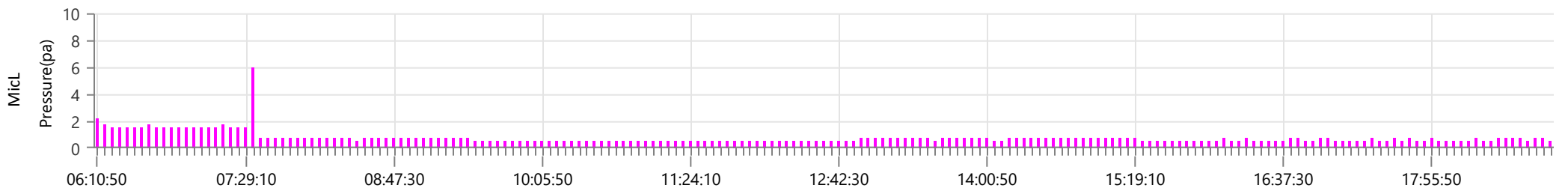
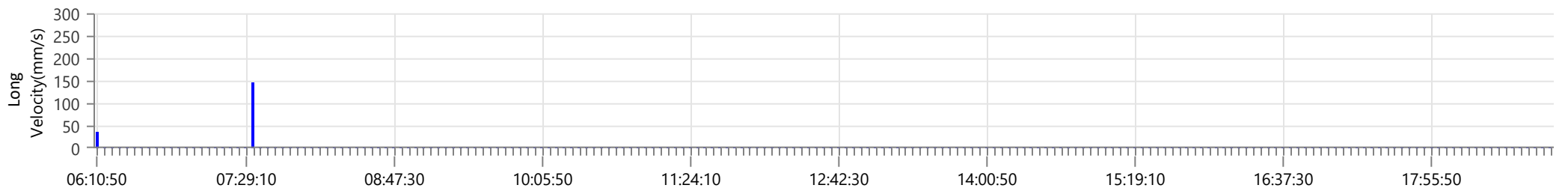
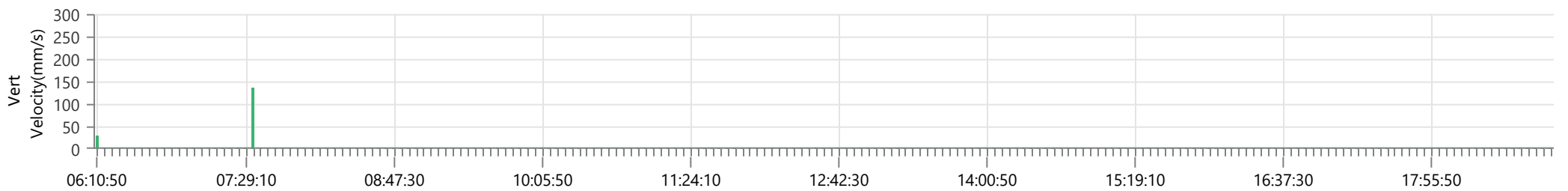
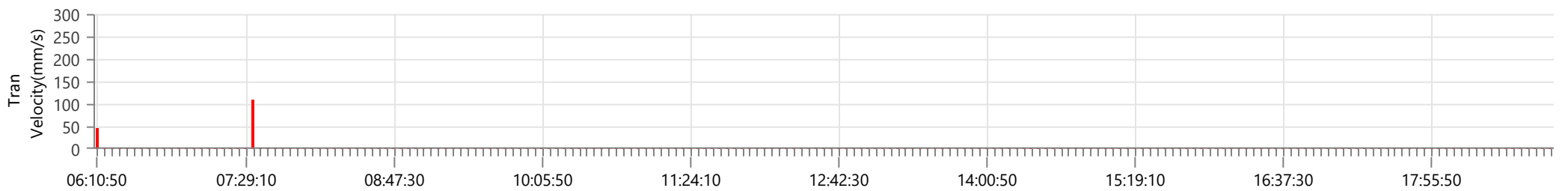
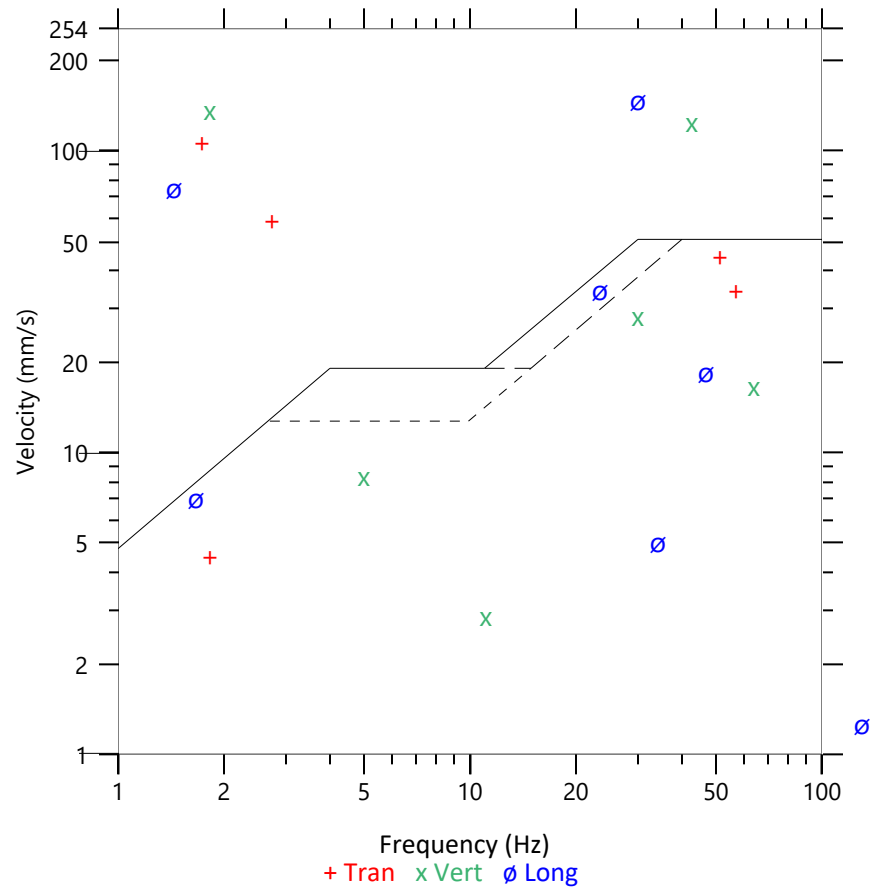
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	108.585 mm/s	138.176 mm/s	148.082 mm/s
Zero Crossing Frequency	1.7 Hz	1.8 Hz	30.1 Hz
Date	Jun 8, 2023	Jun 8, 2023	Jun 8, 2023
Time	07:35:15	07:35:10	07:35:15
Sensor Check	⊗ Check	⊗ Check	⊗ Check
Frequency	18.0 Hz	113.8 Hz	2.2 Hz
Overswing Ratio	1.0	1.0	2.0

Peak Vector Sum 186.428 mm/s at June 8, 2023 07:35:15

ISEE Linear Microphone
 Peak Sound Pressure Level 6.00 pa
 Date Jun 8, 2023
 Time 07:35:15
 Zero Crossing Frequency 51.2 Hz
 Sensor Check ⊗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 8, 2023 06:10:45
Finish June 8, 2023 19:00:44
Number of Intervals/Interval 9239.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230608061045.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

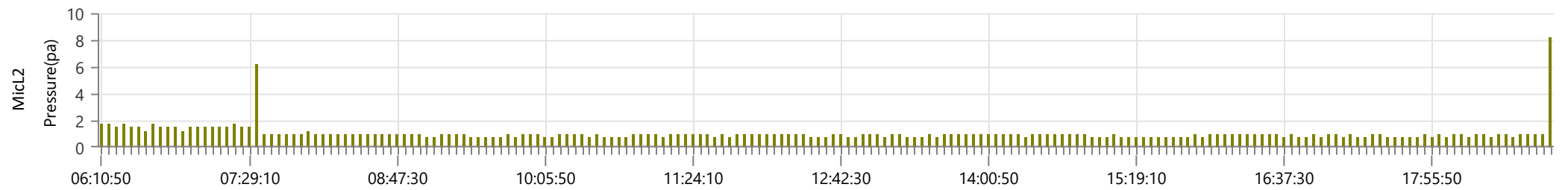
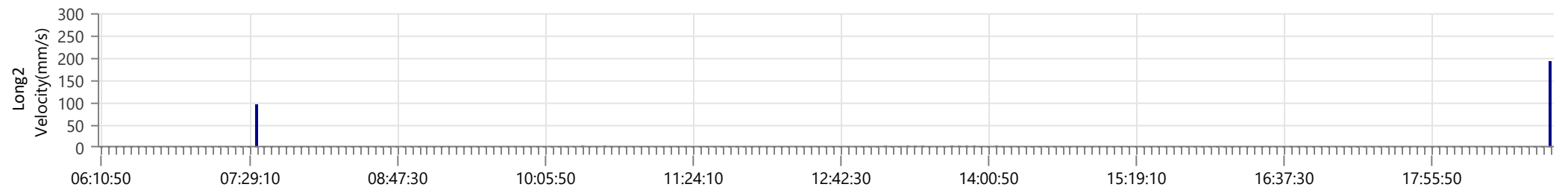
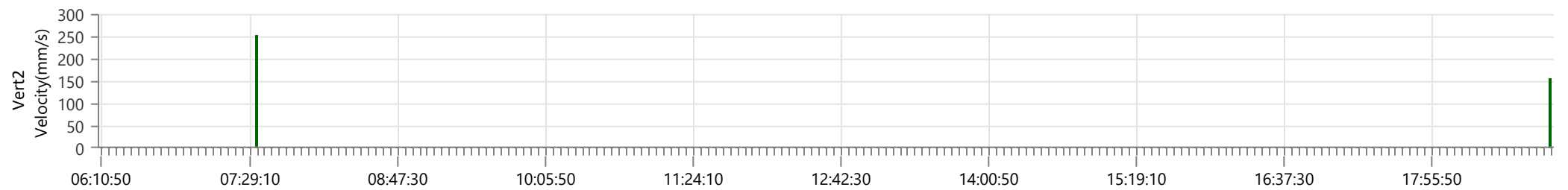
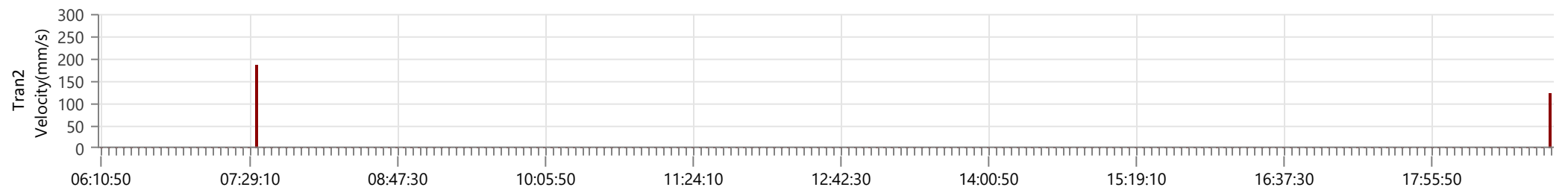
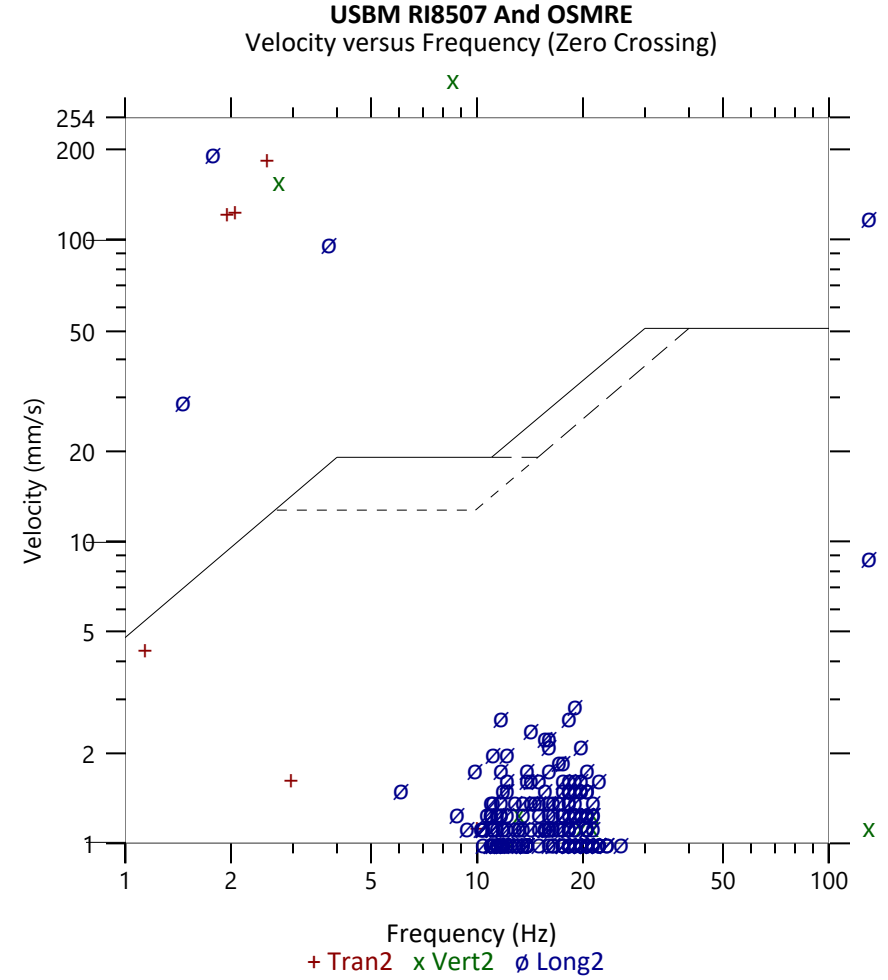
Extended Notes 51.44883 112.68244 51.44881 112.68243

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	185.928 mm/s	***	194.564 mm/s
Zero Crossing Frequency	2.5 Hz	8.5 Hz	1.8 Hz
Date	Jun 8, 2023	Jun 8, 2023	Jun 8, 2023
Time	07:35:20	07:35:20	19:00:40
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.8 Hz	8.3 Hz	12.0 Hz
Overswing Ratio	3.2	3.2	4.7

Peak Vector Sum 256.791 mm/s at June 8, 2023 07:35:20

ISEE Linear Microphone
 Peak Sound Pressure Level 8.25 pa
 Date Jun 8, 2023
 Time 19:00:40
 Zero Crossing Frequency 1.9 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



Start June 9, 2023 06:51:21
Finish June 9, 2023 17:12:08
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230609065121.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

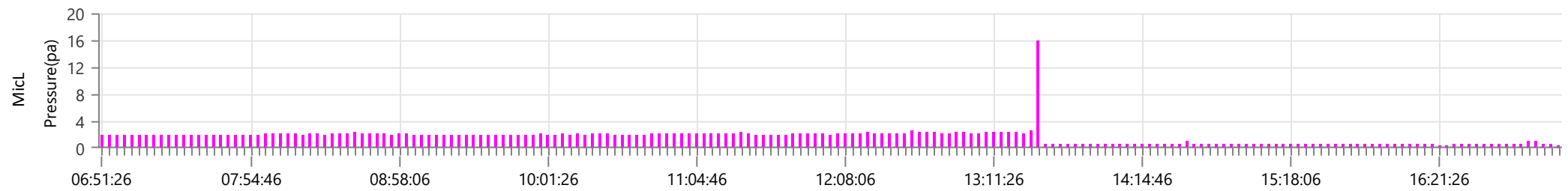
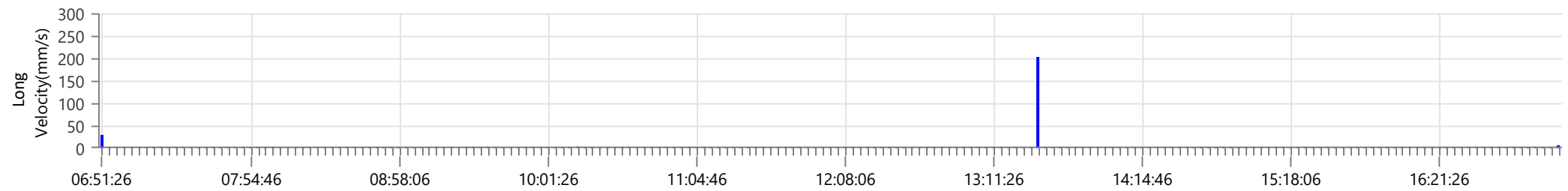
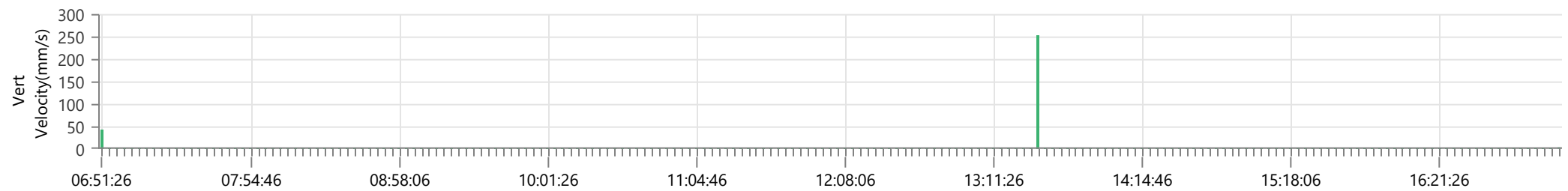
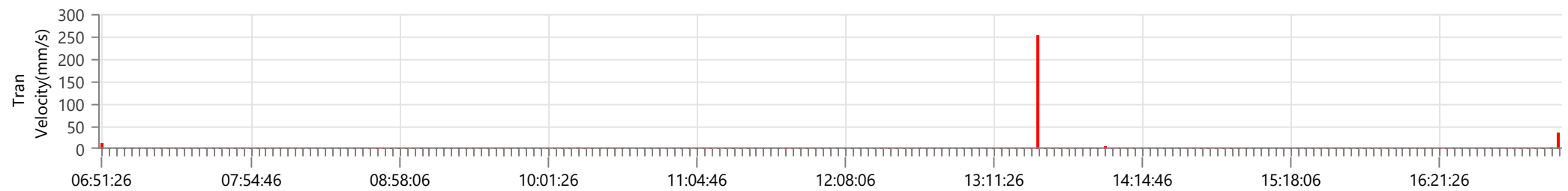
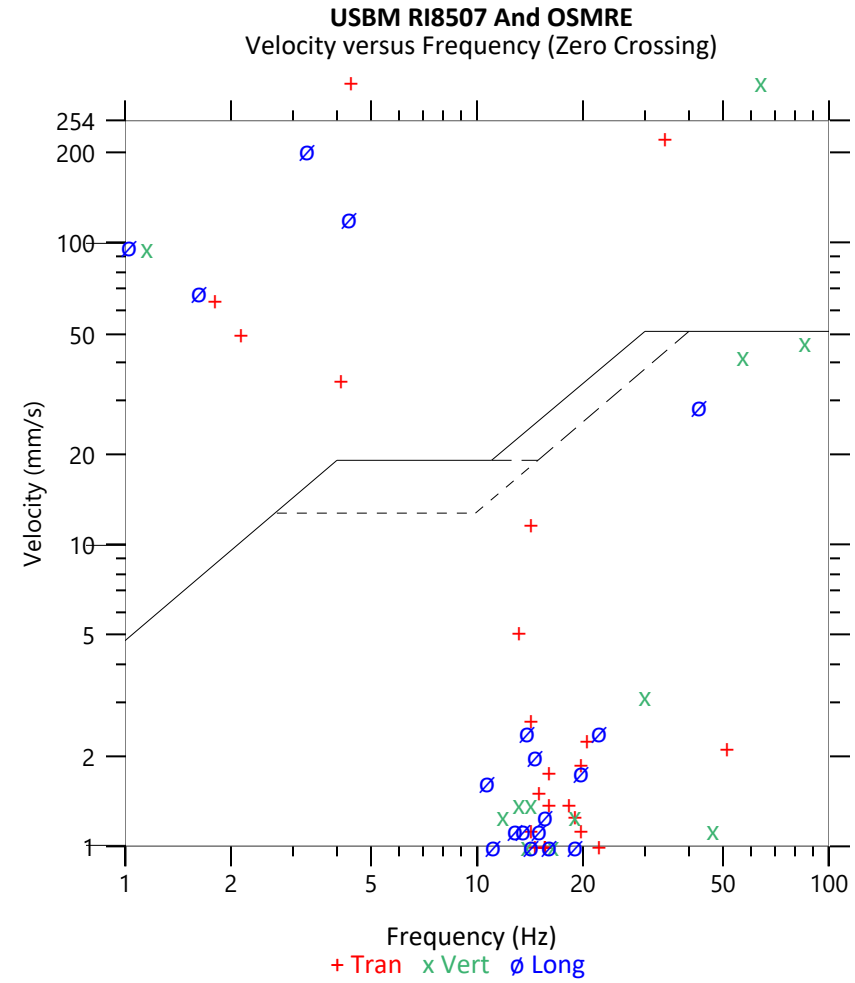
Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	***	***	204.597 mm/s
Zero Crossing Frequency	4.4 Hz	64.0 Hz	3.3 Hz
Date	Jun 9, 2023	Jun 9, 2023	Jun 9, 2023
Time	13:33:06	13:32:51	13:32:51
Sensor Check	✓ Passed	✗ Check	✗ Check
Frequency	7.7 Hz	341.3 Hz	2.2 Hz
Overswing Ratio	3.2	0.0	1.0
Peak Vector Sum	289.967 mm/s at June 9, 2023 13:32:51		

ISEE Linear Microphone
 Peak Sound Pressure Level 16.00 pa
 Date Jun 9, 2023
 Time 13:32:51
 Zero Crossing Frequency 12.8 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv



Start June 9, 2023 06:51:21
Finish June 9, 2023 17:12:08
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230609065121.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

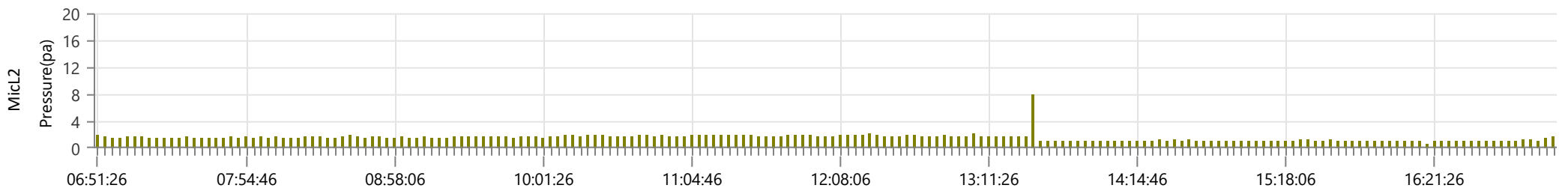
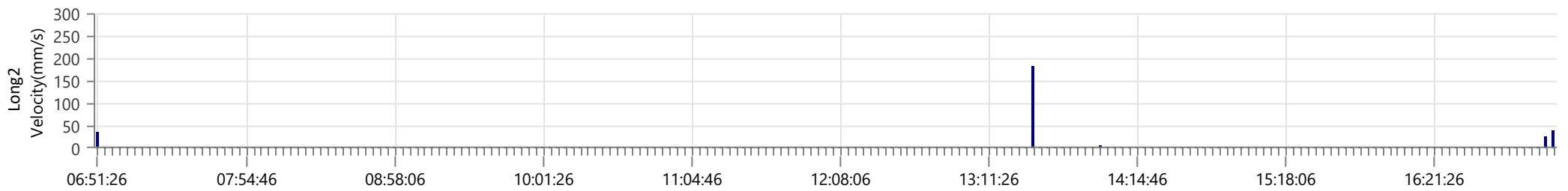
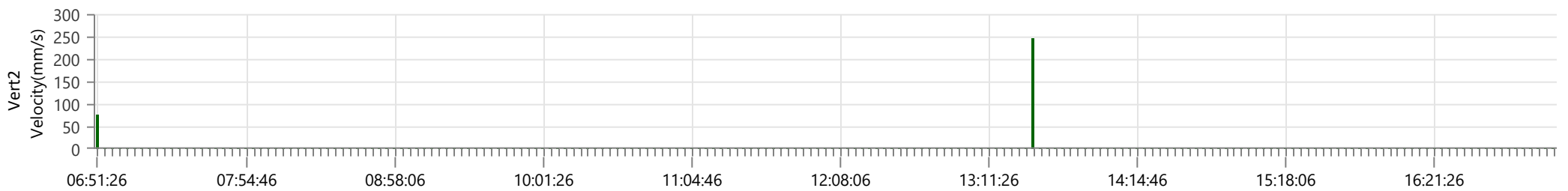
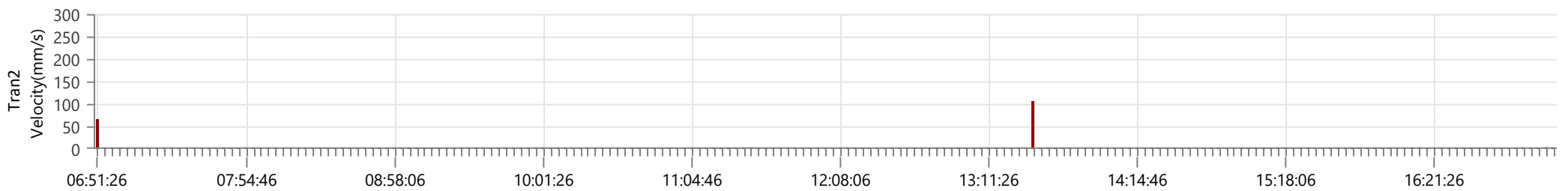
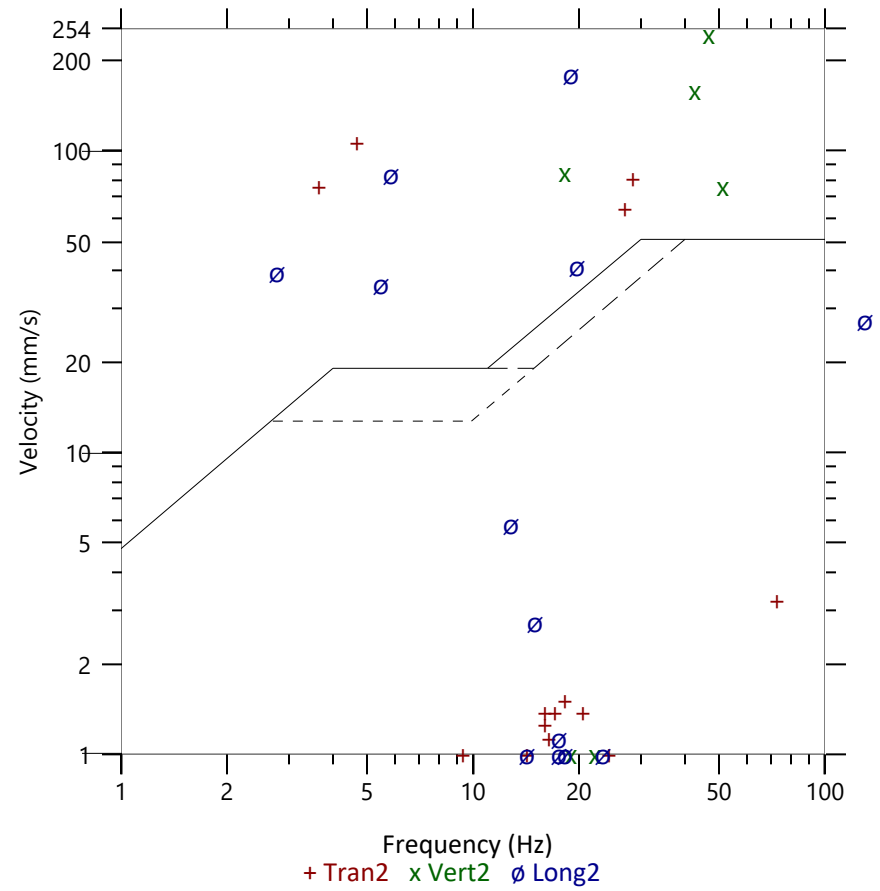
Extended Notes 51.44883 112.68244 51.44881 112.68243

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	107.950 mm/s	248.158 mm/s	182.118 mm/s
Zero Crossing Frequency	4.7 Hz	46.5 Hz	19.0 Hz
Date	Jun 9, 2023	Jun 9, 2023	Jun 9, 2023
Time	13:32:56	13:33:06	13:32:56
Sensor Check	✗ Check	✗ Check	✓ Passed
Frequency	60.2 Hz	7.8 Hz	7.9 Hz
Overswing Ratio	1.5	4.0	3.3
Peak Vector Sum	250.246 mm/s at June 9, 2023 13:33:06		

ISEE Linear Microphone
Peak Sound Pressure Level 8.00 pa
Date Jun 9, 2023
Time 13:32:56
Zero Crossing Frequency 39.4 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 10, 2023 06:34:56
Finish June 10, 2023 13:56:56
Number of Intervals/Interval 5304.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.7 volts
Battery Error (Battery very low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230610063456.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

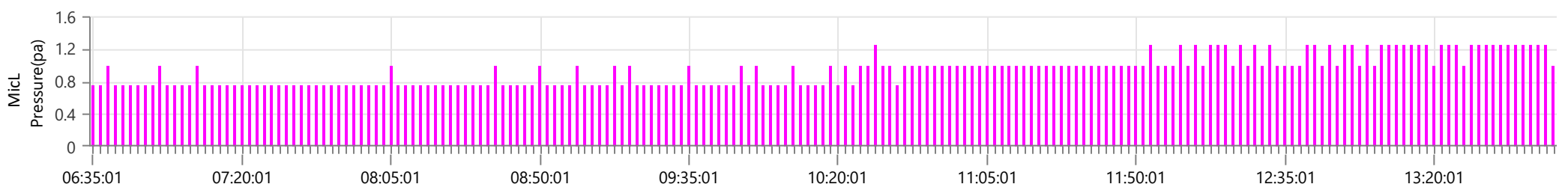
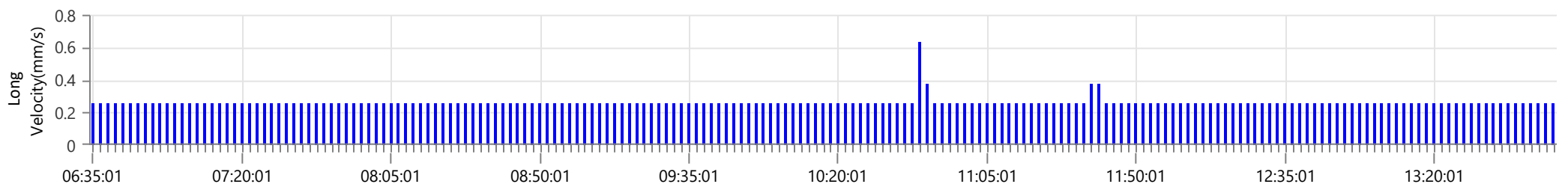
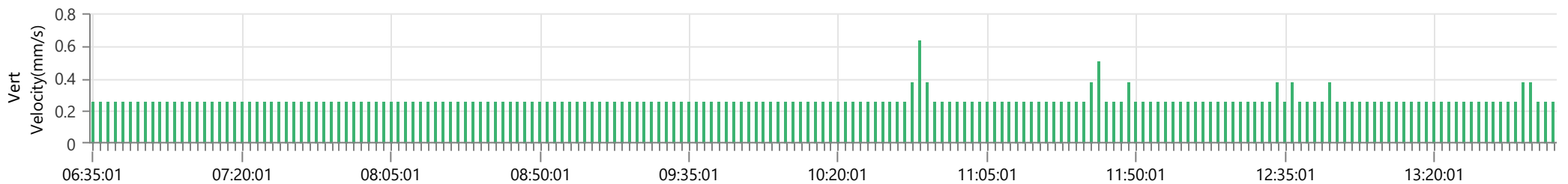
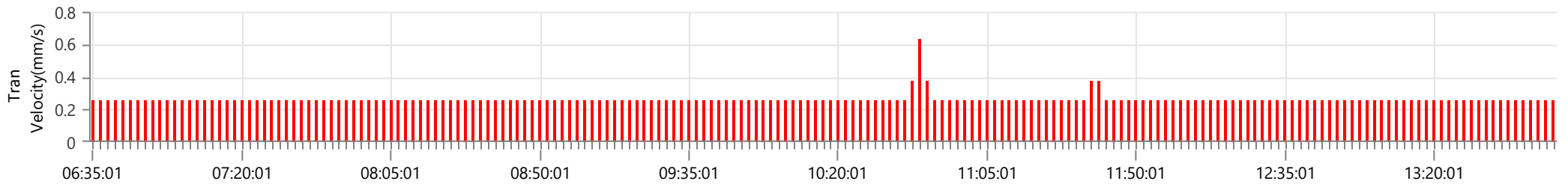
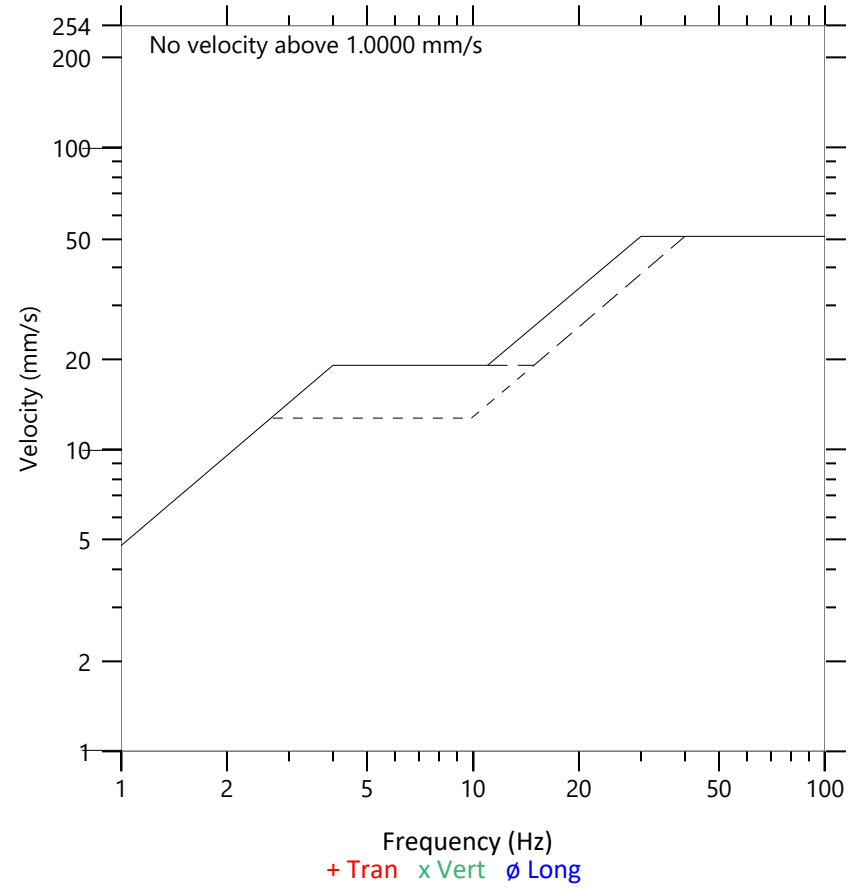
Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44881 112.68034 51.44878 112.68038
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	0.635 mm/s	0.635 mm/s
Zero Crossing Frequency	24.4 Hz	20.5 Hz	22.3 Hz
Date	Jun 10, 2023	Jun 10, 2023	Jun 10, 2023
Time	10:46:11	10:46:11	10:46:16
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.6	4.0	3.8
 Peak Vector Sum	0.833 mm/s at June 10, 2023 10:46:16		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date Jun 10, 2023
 Time 10:32:01
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 10, 2023 06:34:56
Finish June 10, 2023 13:56:56
Number of Intervals/Interval 5304.00/5 sec
Sample Rate 2048 sps
Setup File Name N/A
Operator -
Job Number 7948

Serial Number BA19543
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.7 volts
Battery Error (Battery very low)
Unit Calibration January 13, 2023 by Instantel
Event File Name BA19543_20230610063456.IDFH
Scaled Distance 47.4 (15.0 m, 0.1 kg)

Notes
willow estate 28 willow point
WSP
User Name: KJ
rear of house facing berm

Extended Notes 51.44881 112.68034 51.44878 112.68038

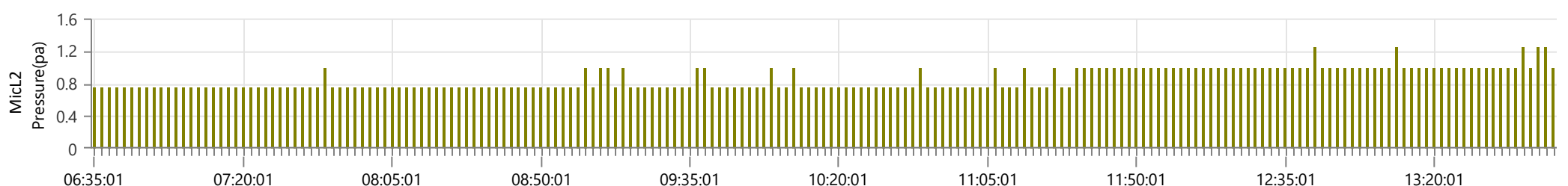
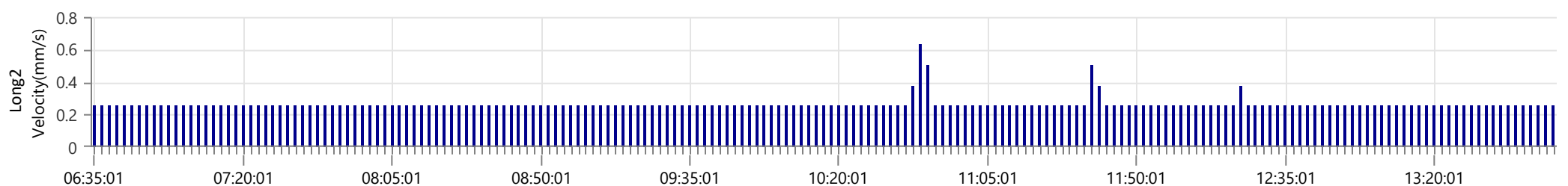
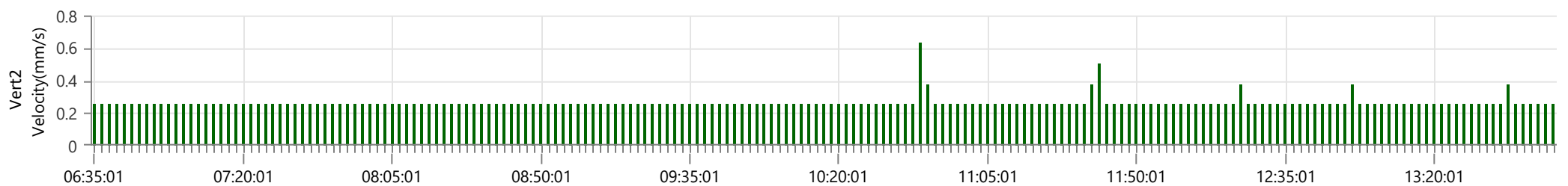
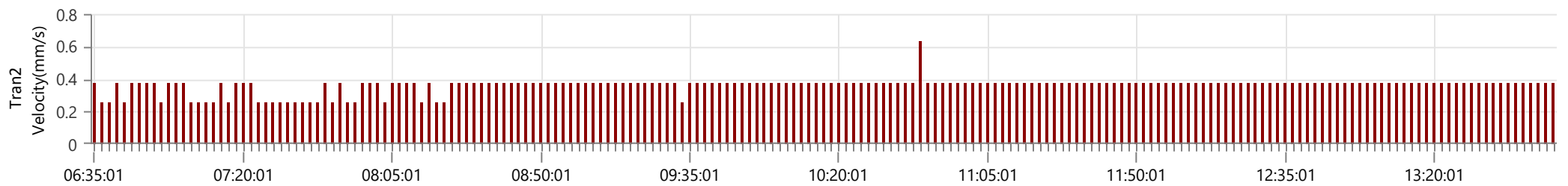
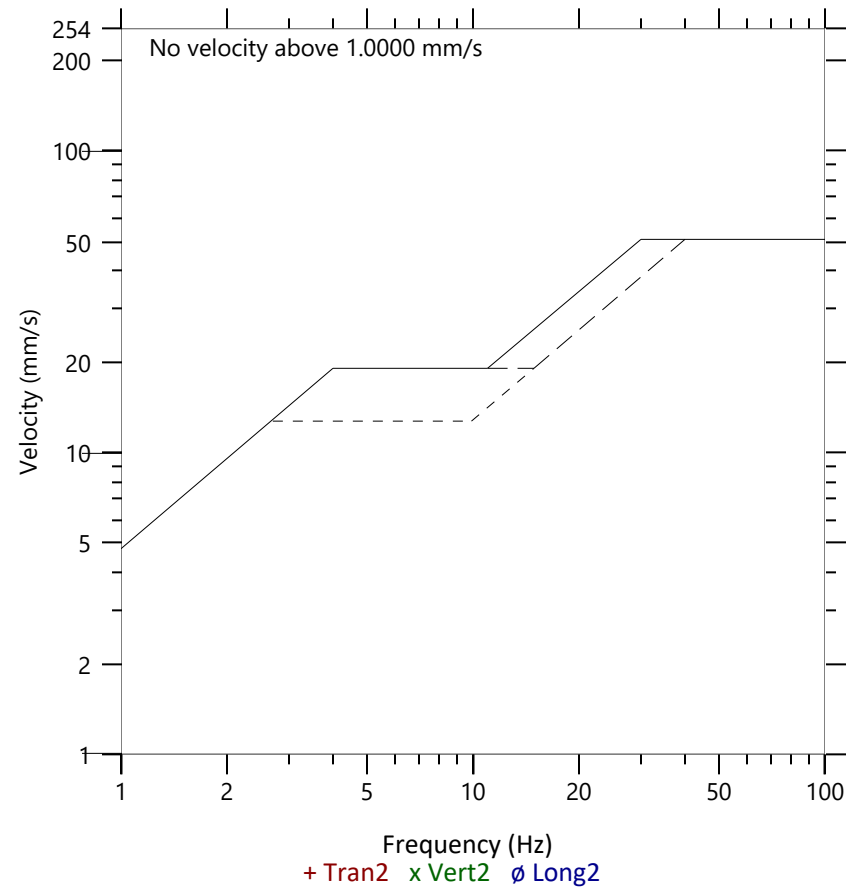
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	0.635 mm/s	0.635 mm/s
Zero Crossing Frequency	14.8 Hz	17.1 Hz	13.1 Hz
Date	Jun 10, 2023	Jun 10, 2023	Jun 10, 2023
Time	10:45:46	10:46:11	10:46:16
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.9 Hz
Overswing Ratio	3.3	3.3	3.3

Peak Vector Sum 0.823 mm/s at June 10, 2023 10:46:11

ISEE Linear Microphone
Peak Sound Pressure Level 1.25 pa
Date Jun 10, 2023
Time 12:45:01
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 10, 2023 06:26:37
Finish June 10, 2023 17:37:52
Number of Intervals/Interval 8055.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230610062637.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

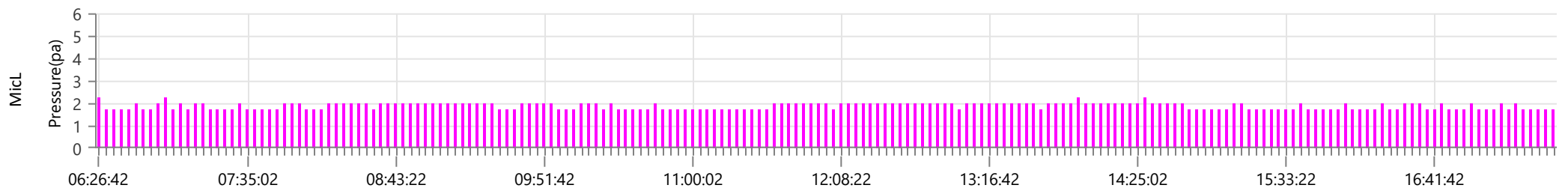
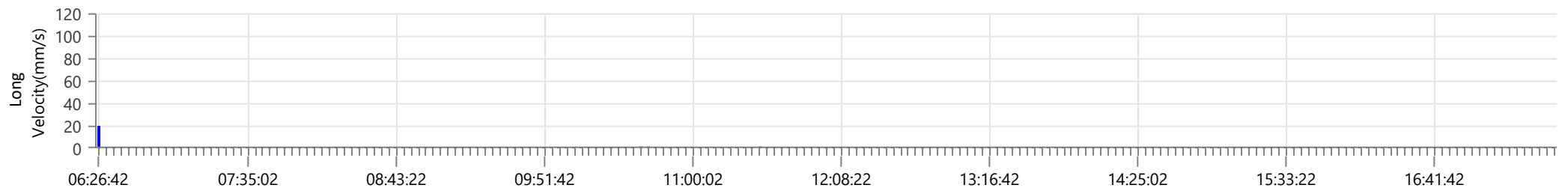
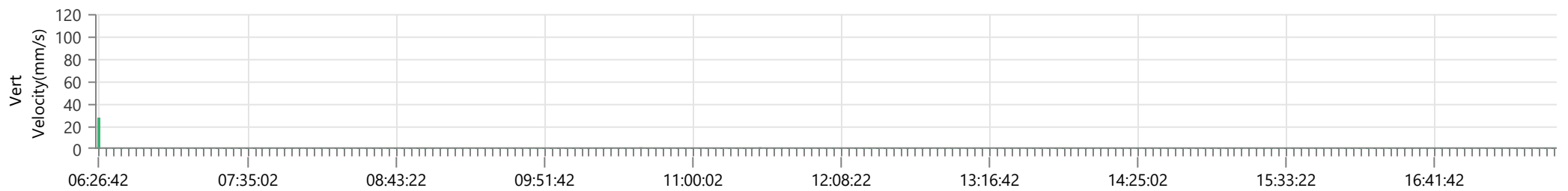
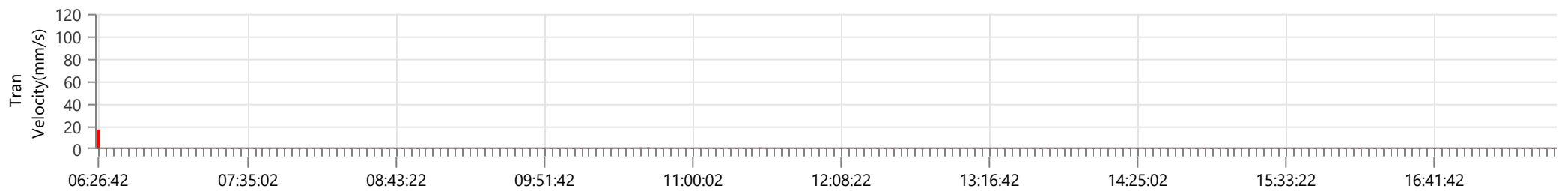
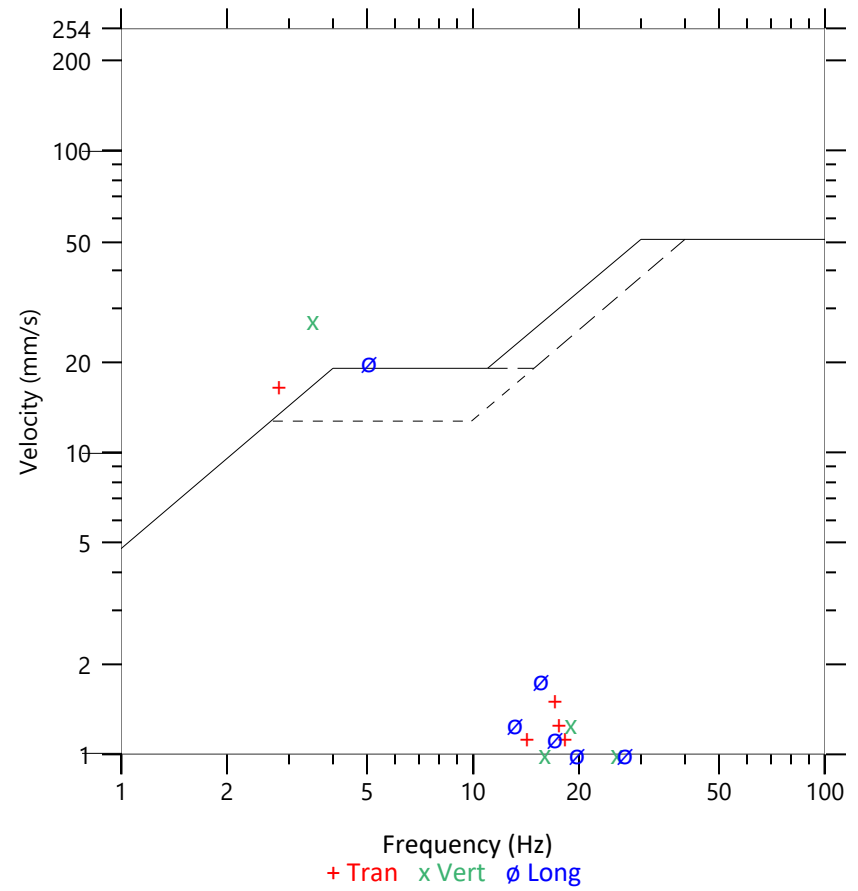
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	16.764 mm/s	27.940 mm/s	20.066 mm/s
Zero Crossing Frequency	2.8 Hz	3.5 Hz	5.1 Hz
Date	Jun 10, 2023	Jun 10, 2023	Jun 10, 2023
Time	06:26:52	06:26:52	06:26:52
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	3.3	3.5	3.4

Peak Vector Sum 34.949 mm/s at June 10, 2023 06:26:52

ISEE Linear Microphone
 Peak Sound Pressure Level 2.25 pa
 Date Jun 10, 2023
 Time 06:26:52
 Zero Crossing Frequency 73.1 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 10, 2023 06:26:37
Finish June 10, 2023 17:37:52
Number of Intervals/Interval 8055.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230610062637.IDFH
Scaled Distance 15.8 (5.0 m, 0.1 kg)

Notes
Job: RD7948
46 garden way WSP
User Name: KJ
General: frontofhouse facing dike

Extended Notes 51.44883 112.68244 51.44881 112.68243

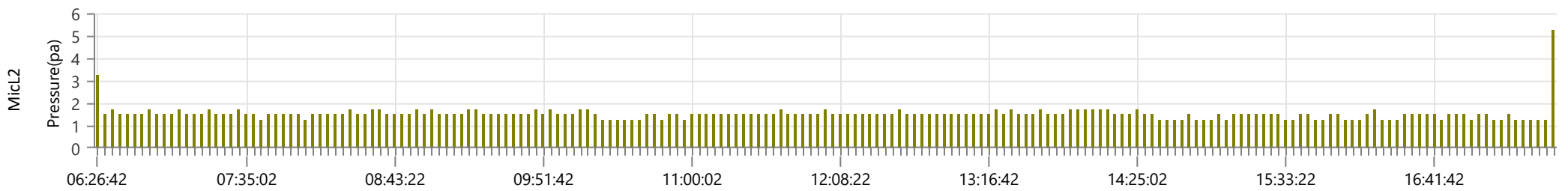
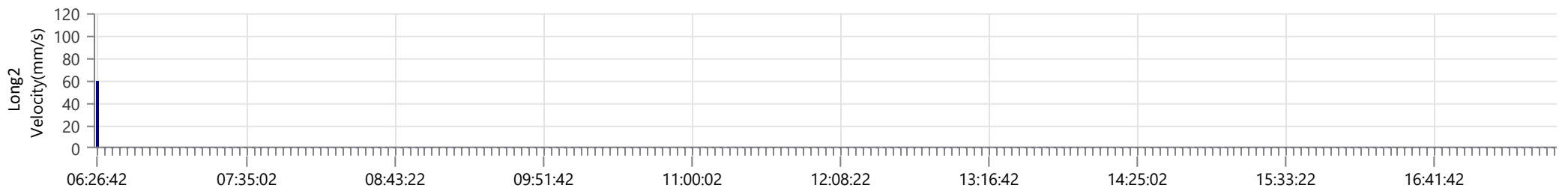
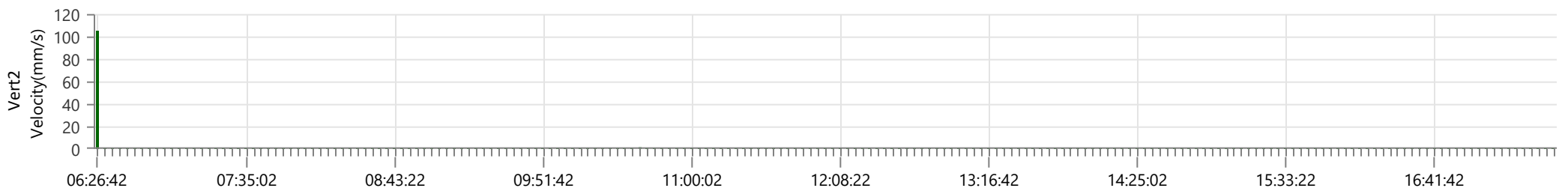
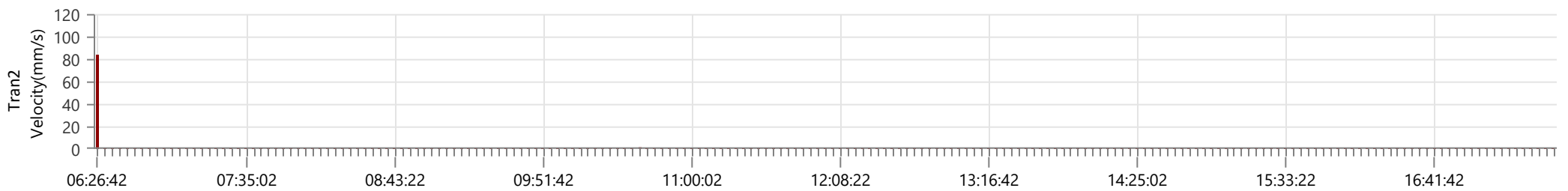
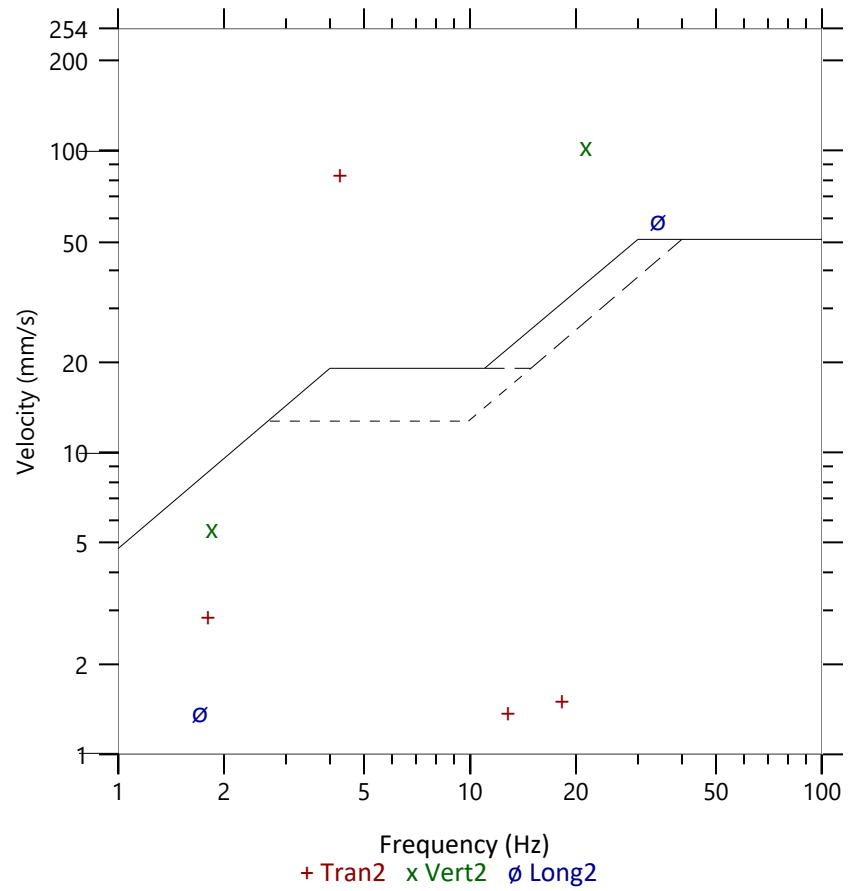
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	84.455 mm/s	105.283 mm/s	59.690 mm/s
Zero Crossing Frequency	4.3 Hz	21.3 Hz	34.1 Hz
Date	Jun 10, 2023	Jun 10, 2023	Jun 10, 2023
Time	06:26:52	06:26:52	06:26:52
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	8.3 Hz	8.3 Hz	8.6 Hz
Overswing Ratio	3.3	3.2	4.5

Peak Vector Sum 127.034 mm/s at June 10, 2023 06:26:52

ISEE Linear Microphone
 Peak Sound Pressure Level 5.25 pa
 Date Jun 10, 2023
 Time 17:37:52
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 16, 2023 06:21:52
Finish June 16, 2023 15:52:58
Number of Intervals/Interval 6853.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA20194
Model Number BlastMate III 10.72.8.17
Battery Level 6.3 volts
Unit Calibration January 6, 2023 by Instantel
Event File Name BA20194_20230616062152.IDFH
Scaled Distance 25.3 (8.0 m, 0.1 kg)

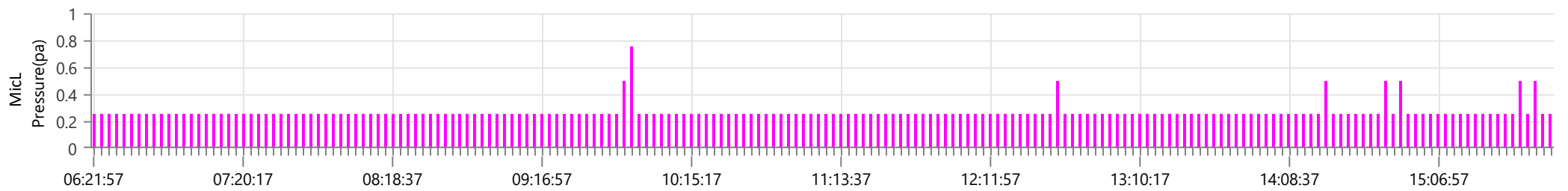
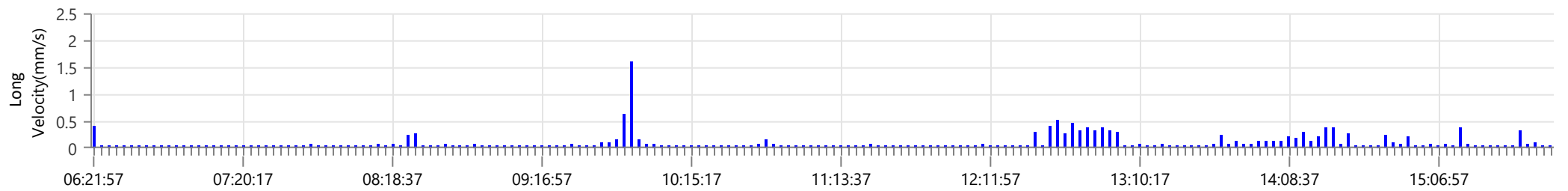
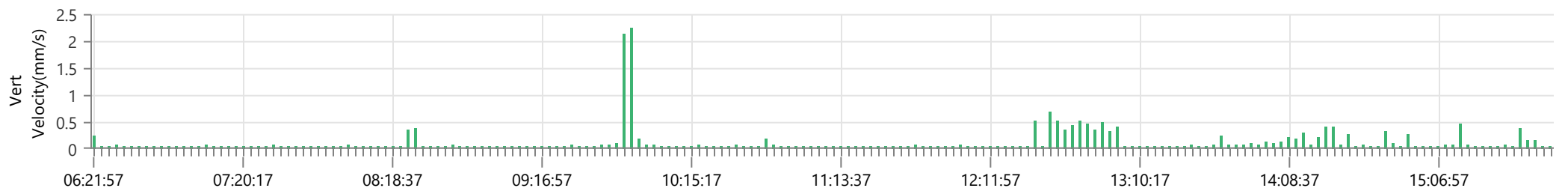
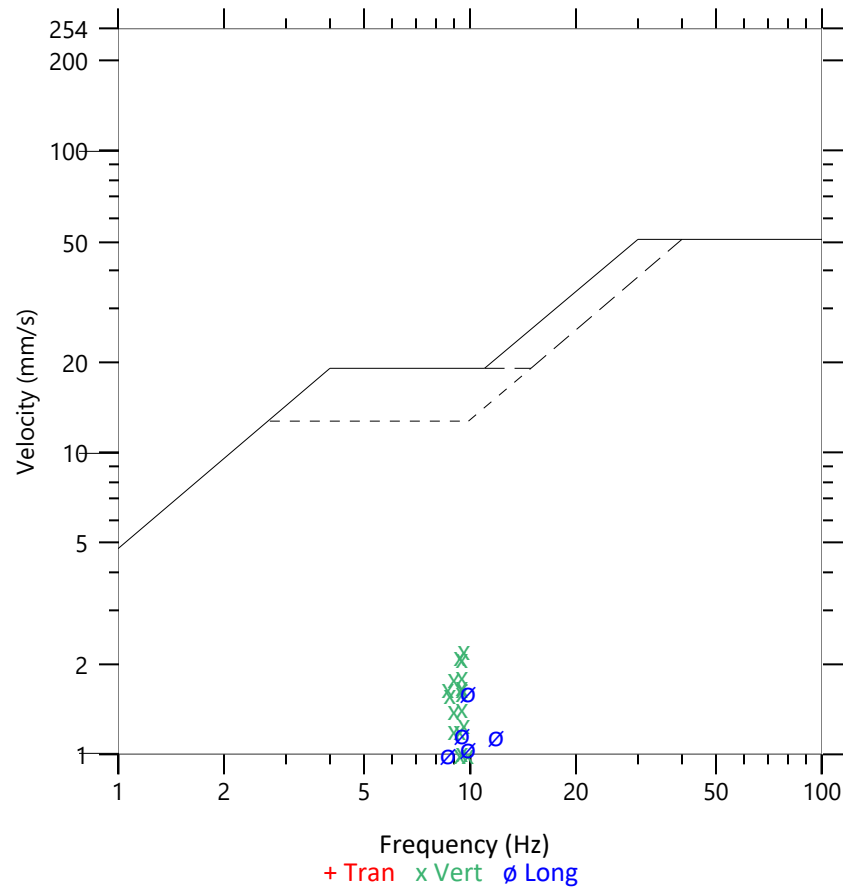
Notes
Location: Willow Est
Client: WSP
User Name: DL
General: RD7948 rear of house facing berm

Extended Notes 51.44867 112.68097
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.968 mm/s	2.238 mm/s	1.619 mm/s
Zero Crossing Frequency	9.7 Hz	9.7 Hz	9.8 Hz
Date	Jun 16, 2023	Jun 16, 2023	Jun 16, 2023
Time	09:51:57	09:53:12	09:53:12
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.3 Hz	7.4 Hz
Overswing Ratio	3.8	4.0	3.8
Peak Vector Sum	2.306 mm/s at June 16, 2023 09:53:12		

ISEE Linear Microphone
Peak Sound Pressure Level 0.75 pa
Date Jun 16, 2023
Time 09:53:12
Zero Crossing Frequency 30.1 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 16, 2023 06:51:02
Finish June 16, 2023 15:51:25
Number of Intervals/Interval 6484.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by Instantel
Event File Name BA19603_20230616065102.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
Job: RD7948
26 Willow Pt WSP
User Name: DL
General: back of house facingberm

Extended Notes 51.44923 112.68035 51.44925 112.68033

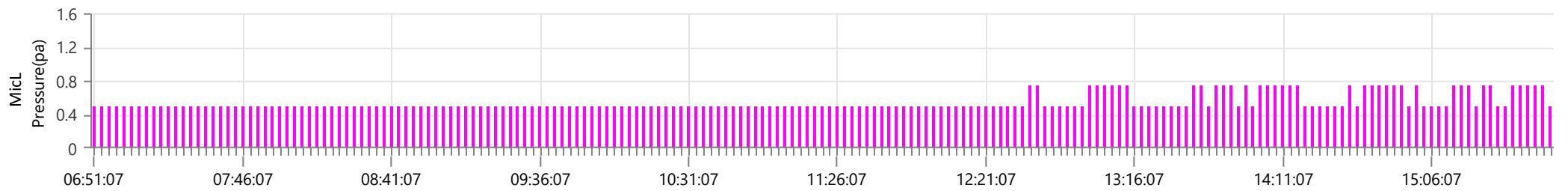
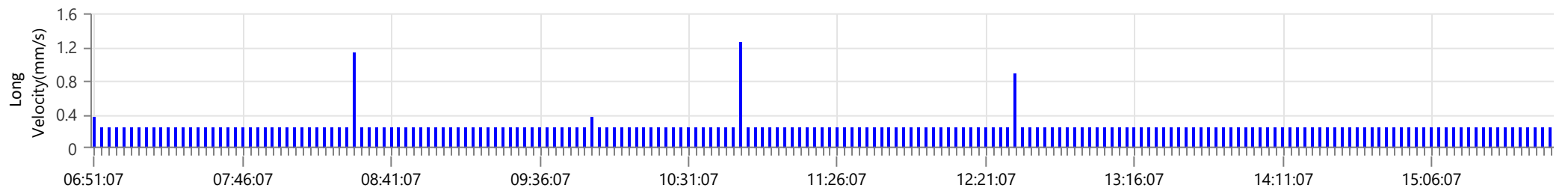
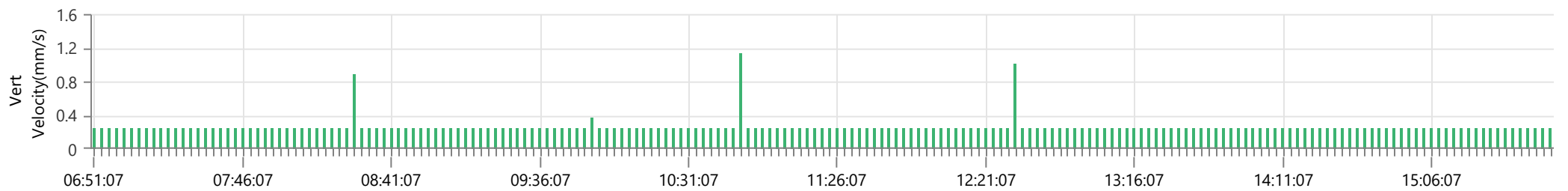
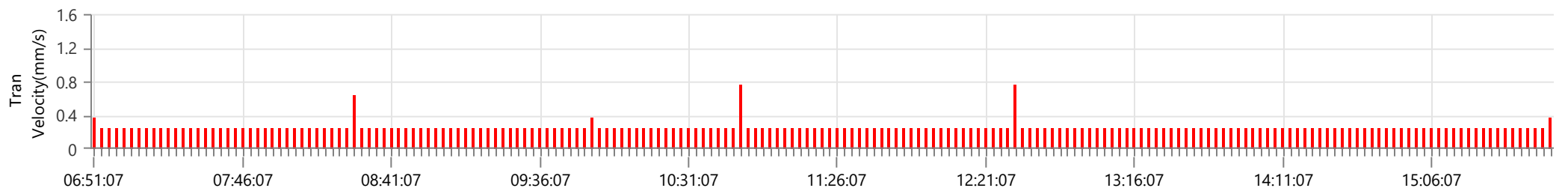
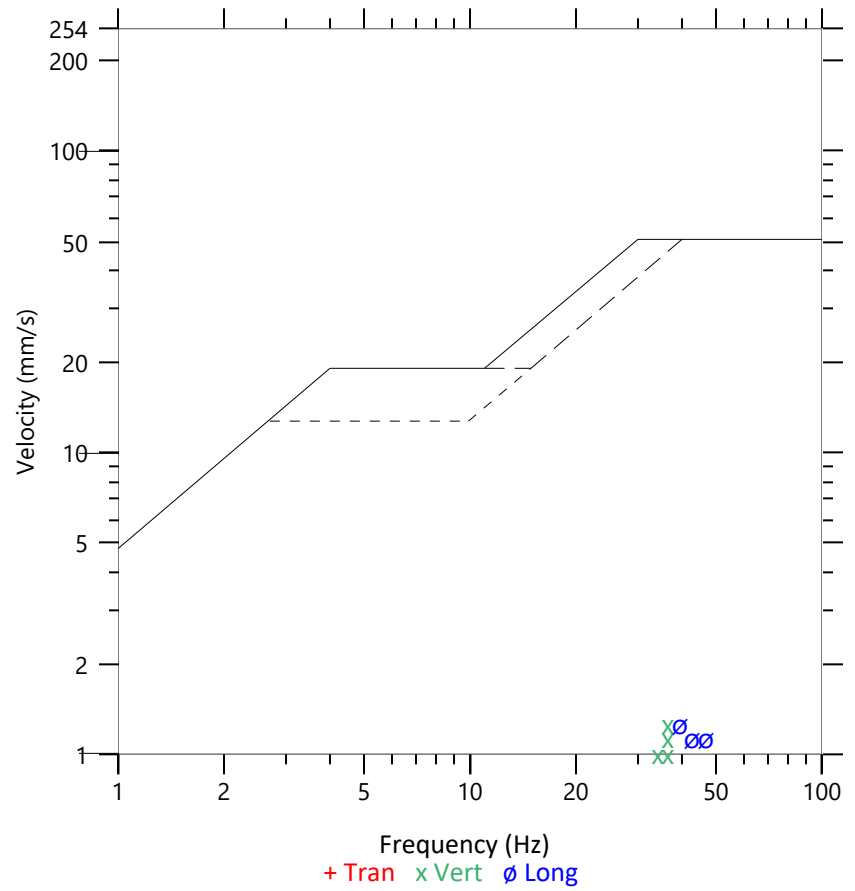
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.762 mm/s	1.270 mm/s	1.270 mm/s
Zero Crossing Frequency	51.2 Hz	36.6 Hz	39.4 Hz
Date	Jun 16, 2023	Jun 16, 2023	Jun 16, 2023
Time	10:52:32	15:50:12	10:52:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.2	3.4	3.5

Peak Vector Sum 1.492 mm/s at June 16, 2023 10:52:32

ISEE Linear Microphone
 Peak Sound Pressure Level 0.75 pa
 Date Jun 16, 2023
 Time 12:38:57
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start June 16, 2023 06:51:02
Finish June 16, 2023 15:51:25
Number of Intervals/Interval 6484.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration January 10, 2023 by InstanTel
Event File Name BA19603_20230616065102.IDFH
Scaled Distance 19.0 (6.0 m, 0.1 kg)

Notes
Job: RD7948
26 Willow Pt WSP
User Name: DL
General: back of house facing berm

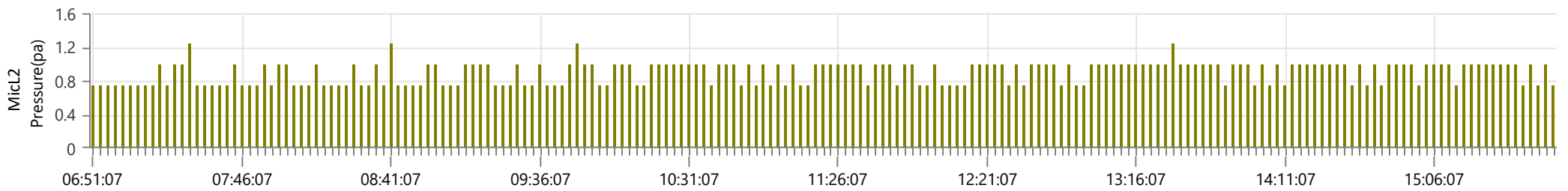
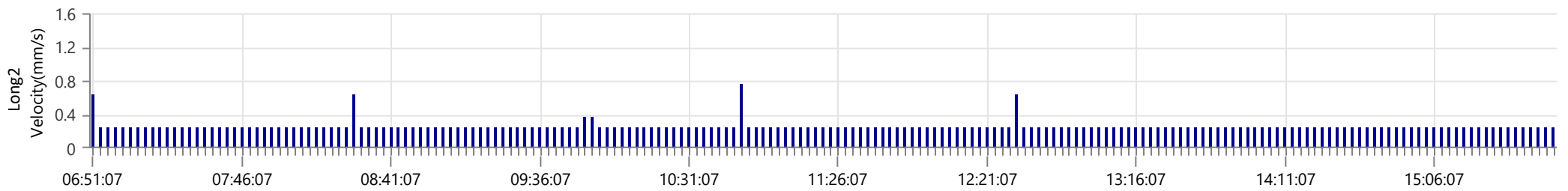
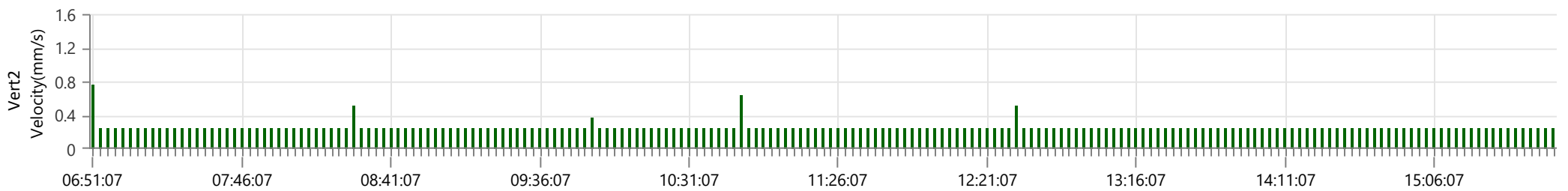
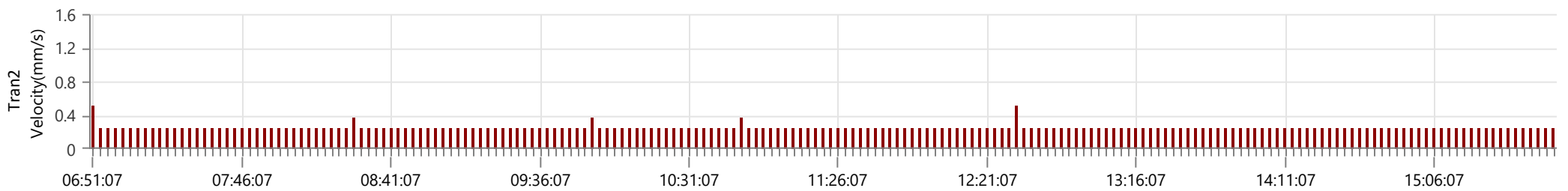
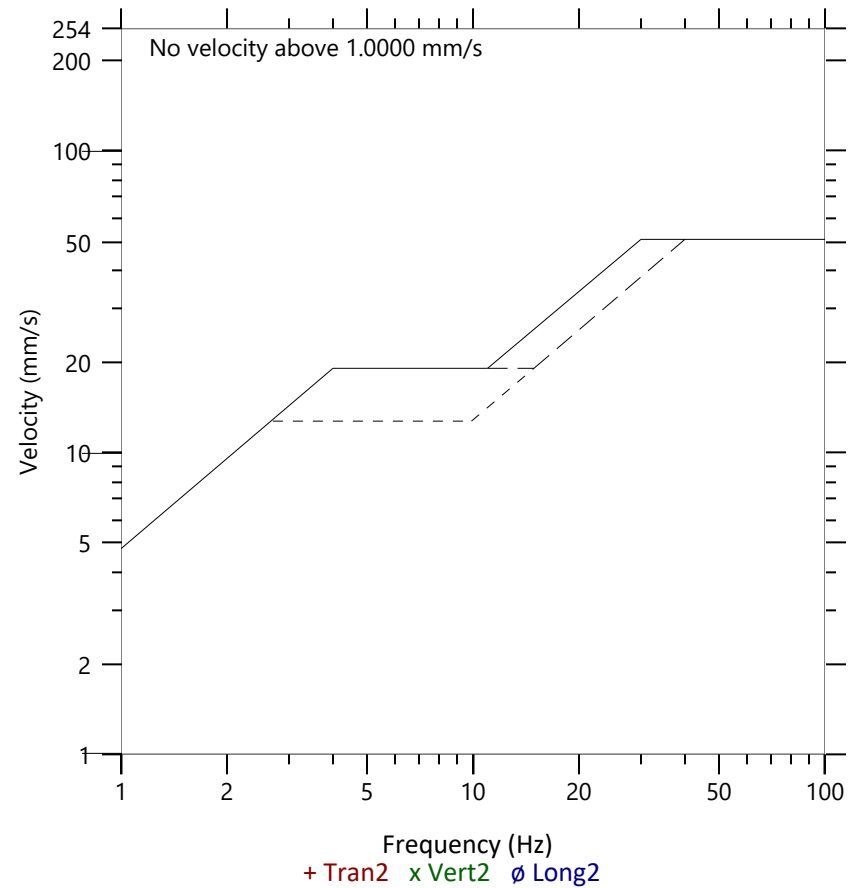
Extended Notes 51.44923 112.68035 51.44925 112.68033

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.508 mm/s	0.762 mm/s	0.762 mm/s
Zero Crossing Frequency	85.3 Hz	>100 Hz	39.4 Hz
Date	Jun 16, 2023	Jun 16, 2023	Jun 16, 2023
Time	06:52:02	06:52:02	10:52:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.8 Hz
Overswing Ratio	3.3	3.2	3.5
Peak Vector Sum	1.063 mm/s at June 16, 2023 06:52:02		

ISEE Linear Microphone
 Peak Sound Pressure Level 1.25 pa
 Date Jun 16, 2023
 Time 07:27:07
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 3, 2022 08:07:09
Finish November 3, 2022 17:57:05
Number of Intervals/Interval 7079.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration March 17, 2022 by InstanTEL
Event File Name BA19602_20221103080709.IDFH

Notes
Location:
Client:
User Name:
General:

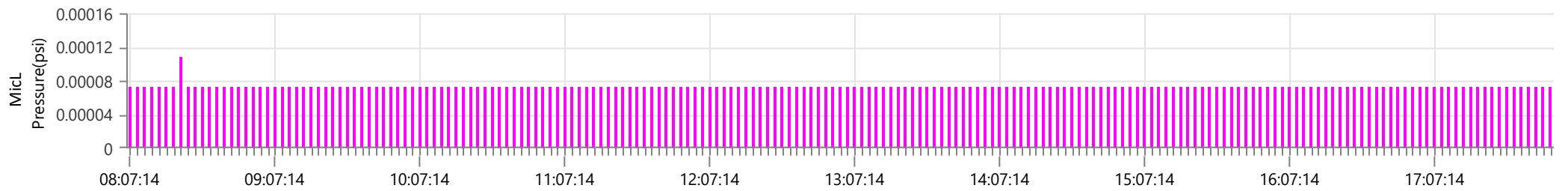
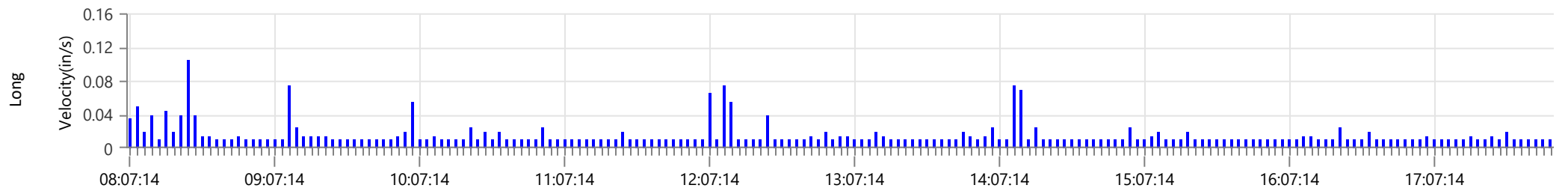
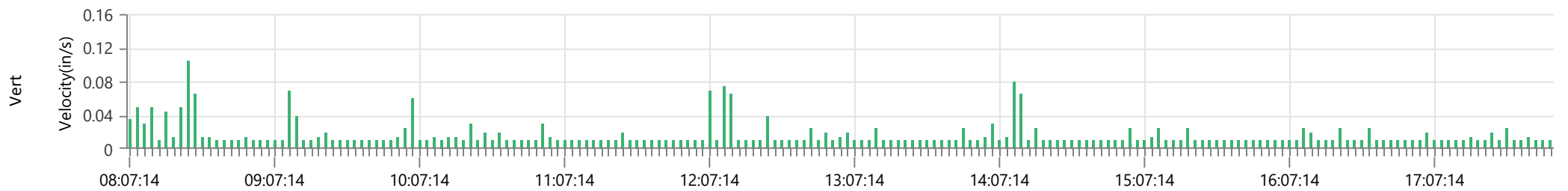
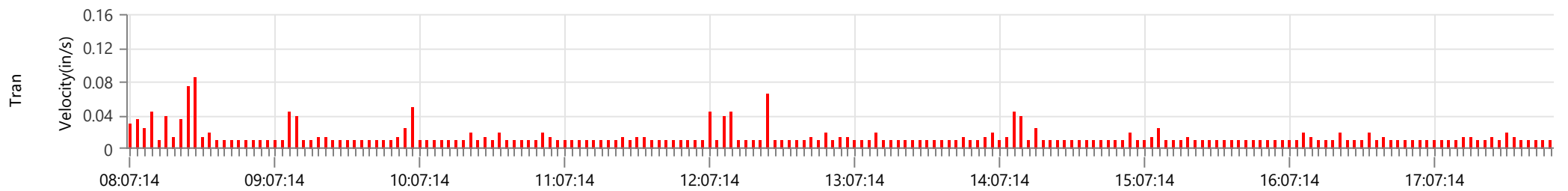
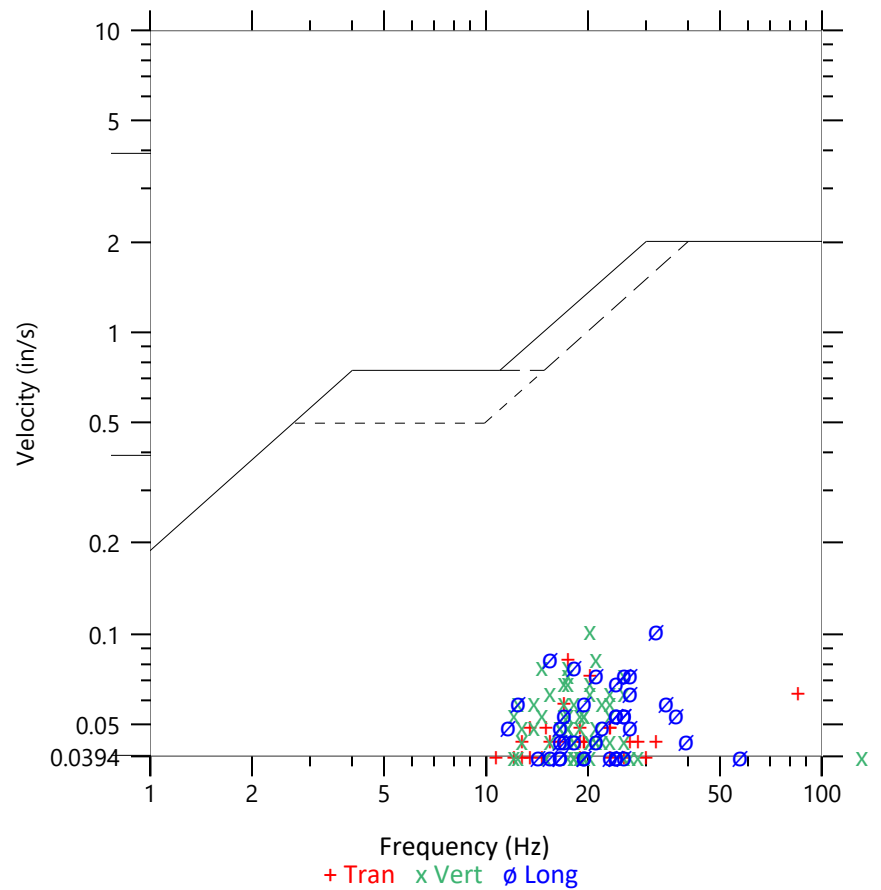
Extended Notes No text to be displayed.
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.0850 in/s	0.1050 in/s	0.1050 in/s
Zero Crossing Frequency	17.7 Hz	20.5 Hz	32.0 Hz
Date	Nov 3, 2022	Nov 3, 2022	Nov 3, 2022
Time	08:34:54	08:32:19	08:32:19
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.3	4.0	4.2

Peak Vector Sum 0.1138 in/s at November 3, 2022 08:32:19

ISEE Linear Microphone
 Peak Sound Pressure Level 0.000109 psi
 Date Nov 3, 2022
 Time 08:30:44
 Zero Crossing Frequency >100 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 3, 2022 08:07:09
Finish November 3, 2022 17:57:05
Number of Intervals/Interval 7079.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19602
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration March 17, 2022 by InstanTel
Event File Name BA19602_20221103080709.IDFH

Notes
Location:
Client:
User Name:
General:

Extended Notes No text to be displayed.

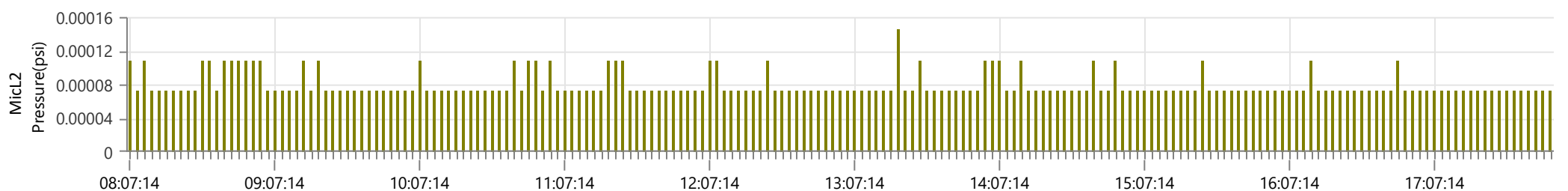
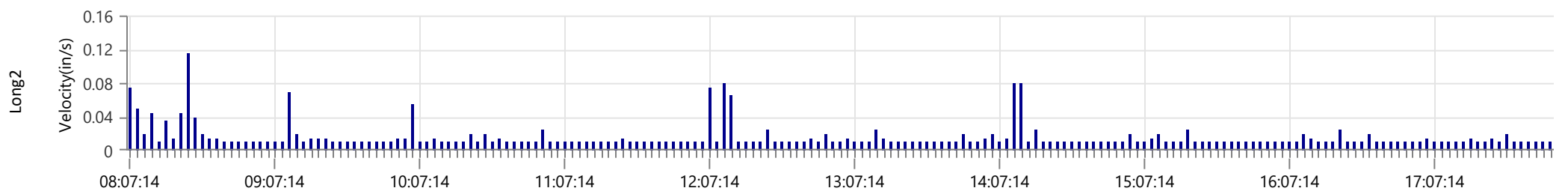
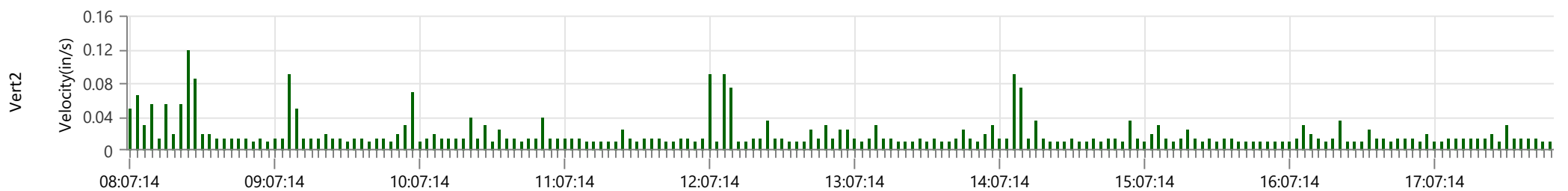
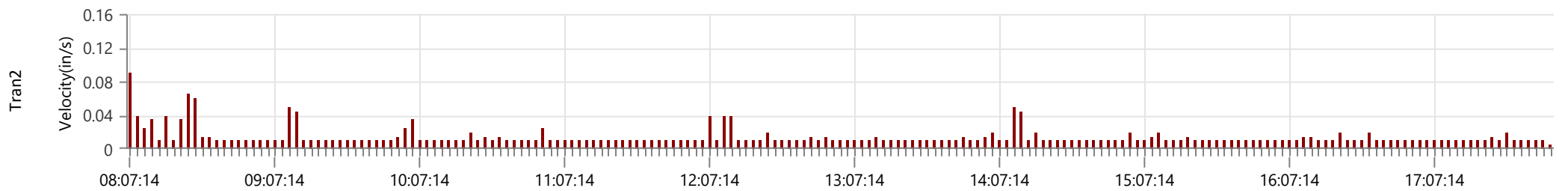
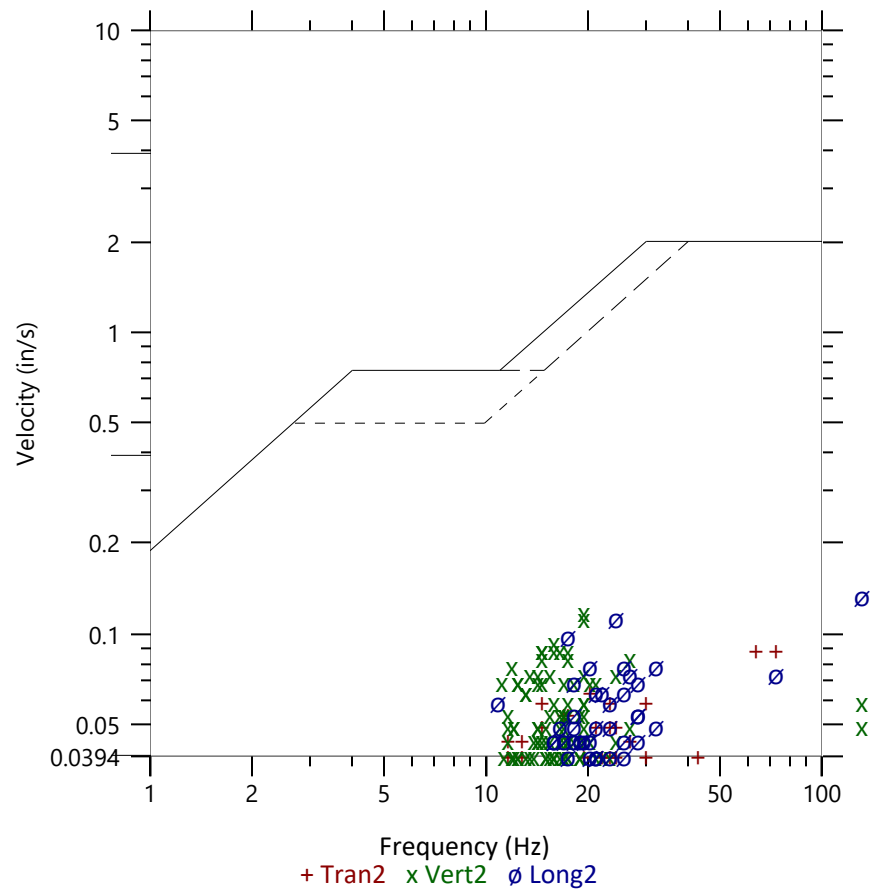
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.0900 in/s	0.1200 in/s	0.1350 in/s
Zero Crossing Frequency	64.0 Hz	19.7 Hz	>100 Hz
Date	Nov 3, 2022	Nov 3, 2022	Nov 3, 2022
Time	08:09:24	08:32:14	17:56:59
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.7 Hz	7.4 Hz
Overswing Ratio	4.5	3.7	3.8

Peak Vector Sum 0.1521 in/s at November 3, 2022 17:56:59

ISEE Linear Microphone	
Peak Sound Pressure Level	0.000145 psi
Date	Nov 3, 2022
Time	13:26:14
Zero Crossing Frequency	>100 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 10:37:17
Finish October 3, 2022 19:28:41
Number of Intervals/Interval 6376.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221003103717.IDFH

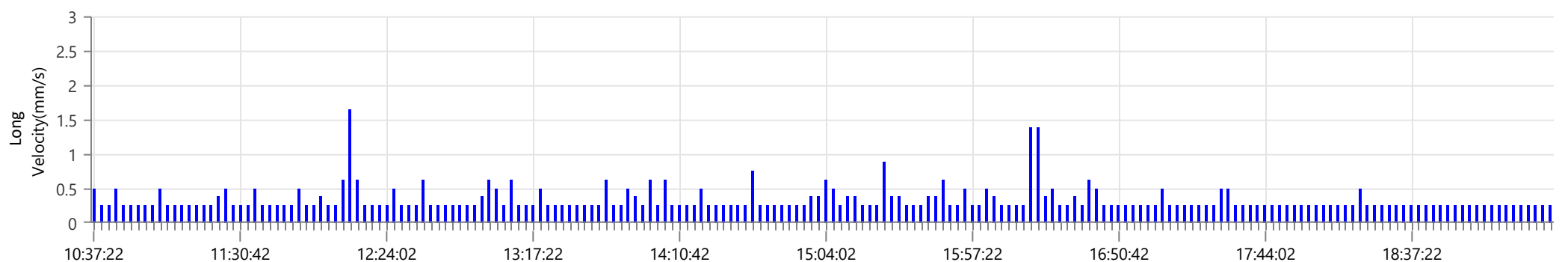
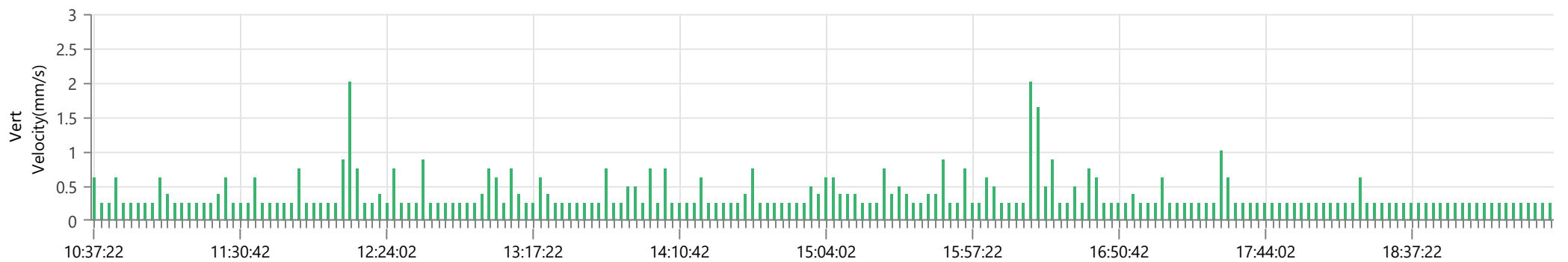
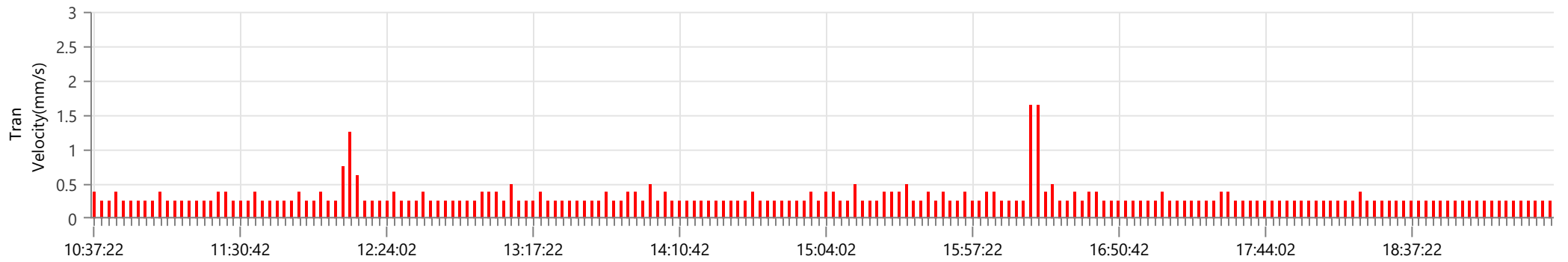
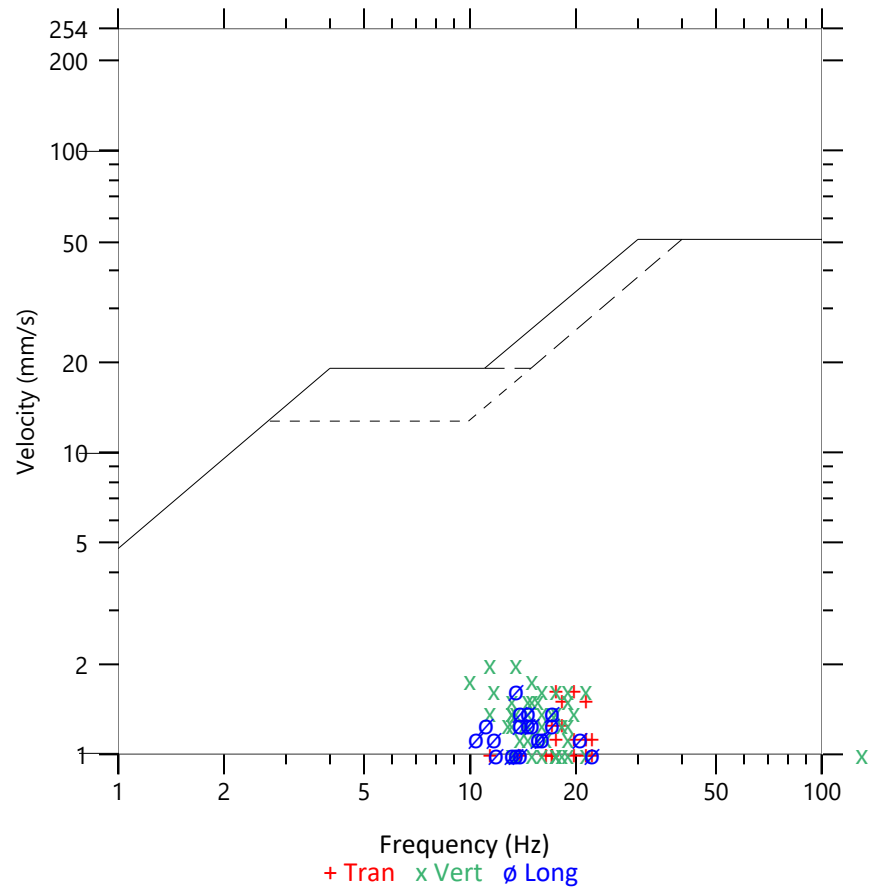
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.651 mm/s	2.032 mm/s	1.651 mm/s
Zero Crossing Frequency	19.7 Hz	11.4 Hz	13.5 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	16:20:52	12:13:02	12:13:02
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.7 Hz
Overswing Ratio	3.7	3.9	3.5
Peak Vector Sum	2.362 mm/s at October 3, 2022 12:13:02		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 10:37:17
Finish October 3, 2022 19:28:41
Number of Intervals/Interval 6376.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221003103717.IDFH

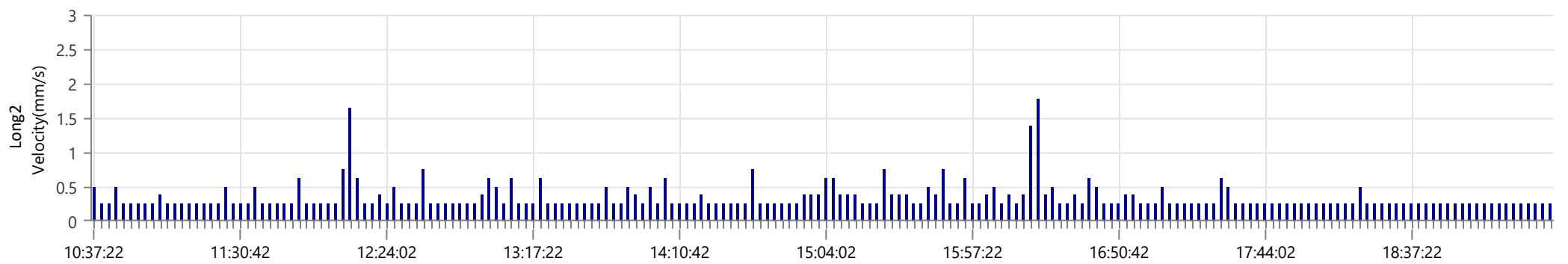
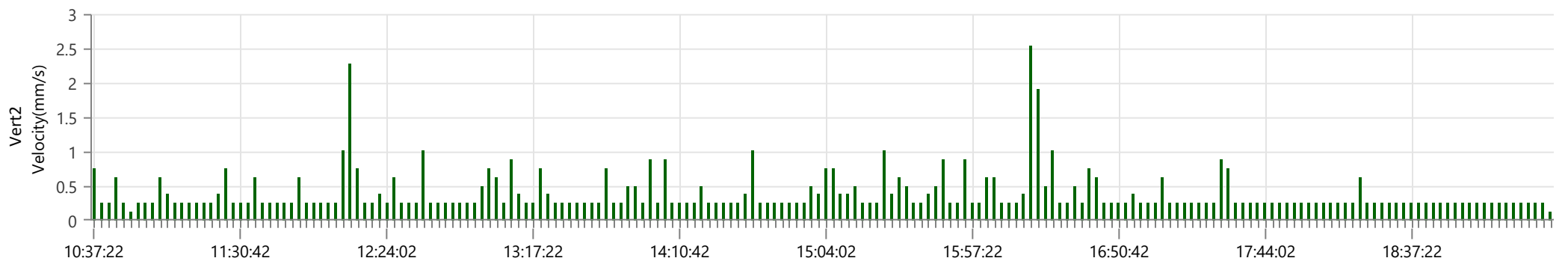
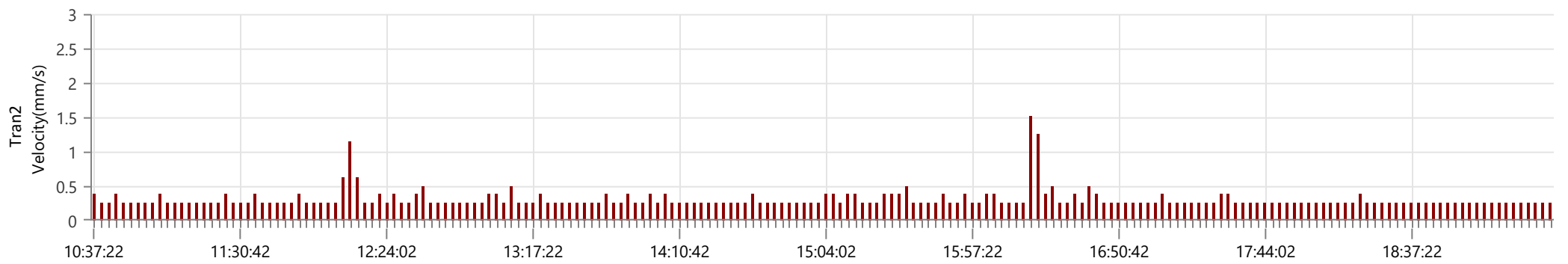
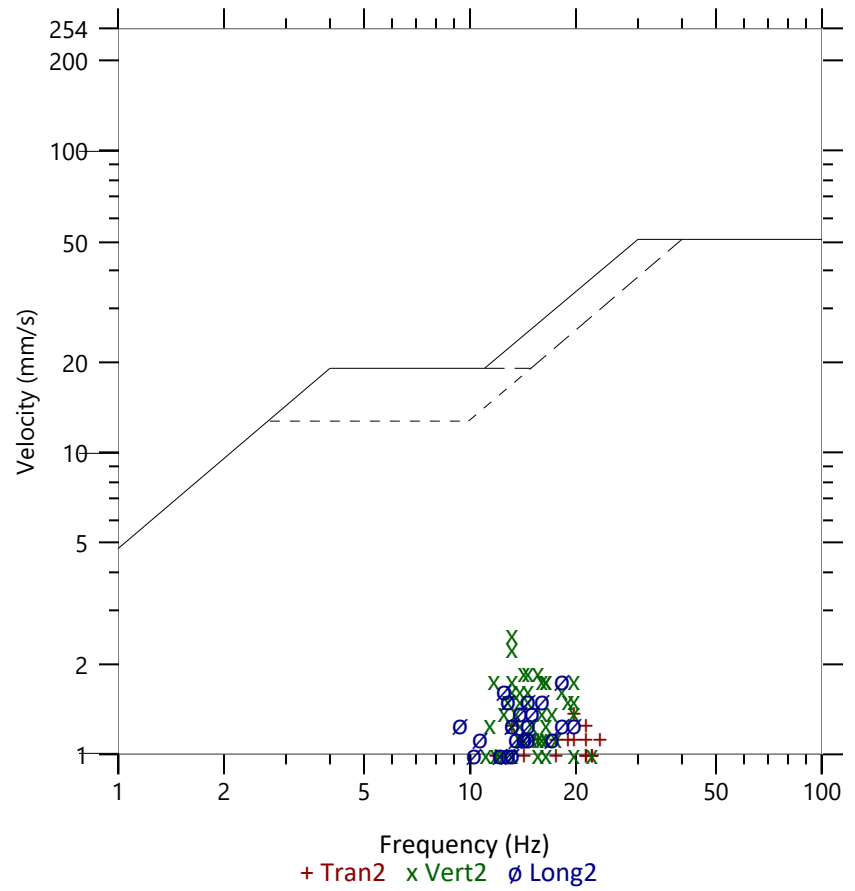
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	2.540 mm/s	1.778 mm/s
Zero Crossing Frequency	N/A	13.1 Hz	18.3 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	16:20:42	16:21:02	16:22:37
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.6	3.7	3.7
Peak Vector Sum	2.694 mm/s at October 3, 2022 16:21:02		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 4, 2022 08:14:27
Finish October 4, 2022 19:28:58
Number of Intervals/Interval 8094.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221004081427.IDFH

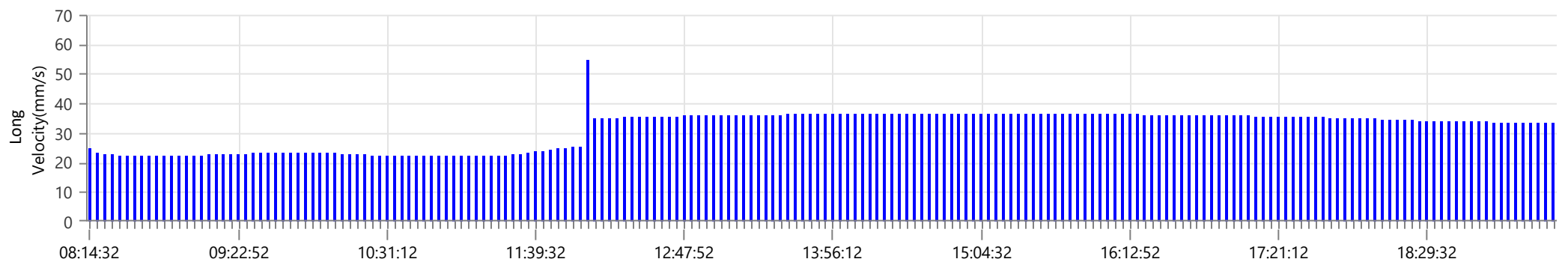
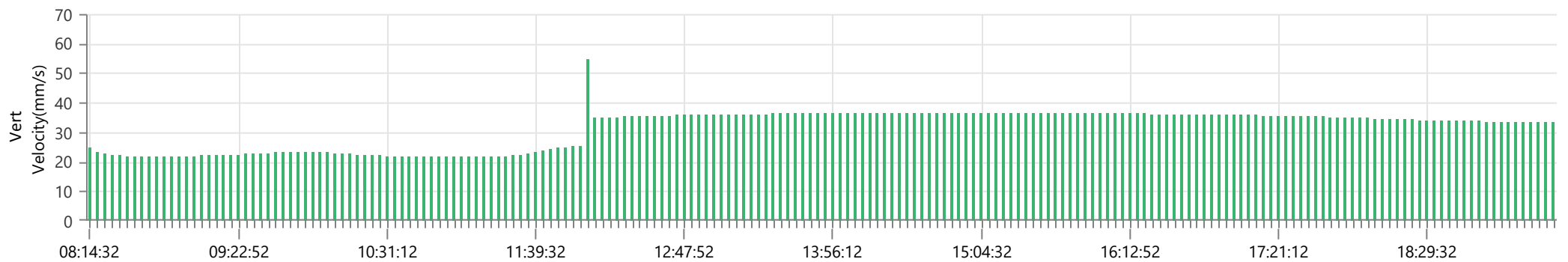
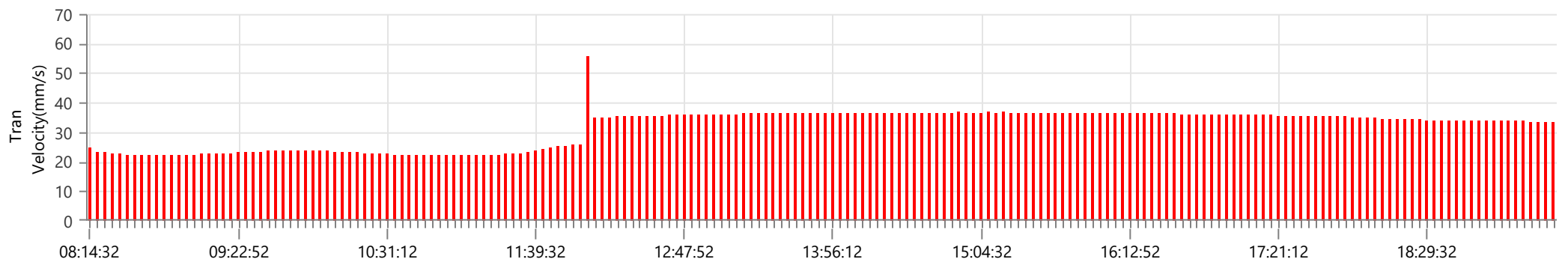
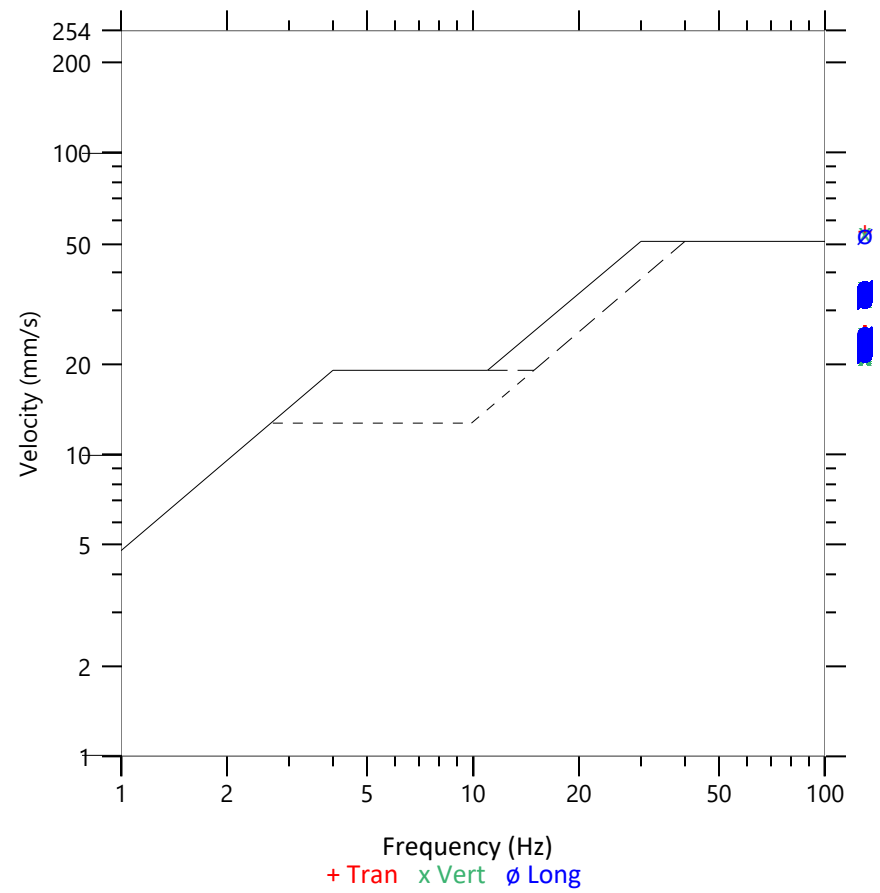
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	55.753 mm/s	54.864 mm/s	54.610 mm/s
Zero Crossing Frequency	N/A	N/A	N/A
Date	Oct 4, 2022	Oct 4, 2022	Oct 4, 2022
Time	12:05:42	12:05:42	12:05:42
Sensor Check	⊗ Check	⊗ Check	⊗ Check
Frequency	1024.0 Hz	1024.0 Hz	1024.0 Hz
Overswing Ratio	0.0	0.0	0.0
Peak Vector Sum	95.325 mm/s at October 4, 2022 12:05:42		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 4, 2022 08:14:27
Finish October 4, 2022 19:28:58
Number of Intervals/Interval 8094.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221004081427.IDFH

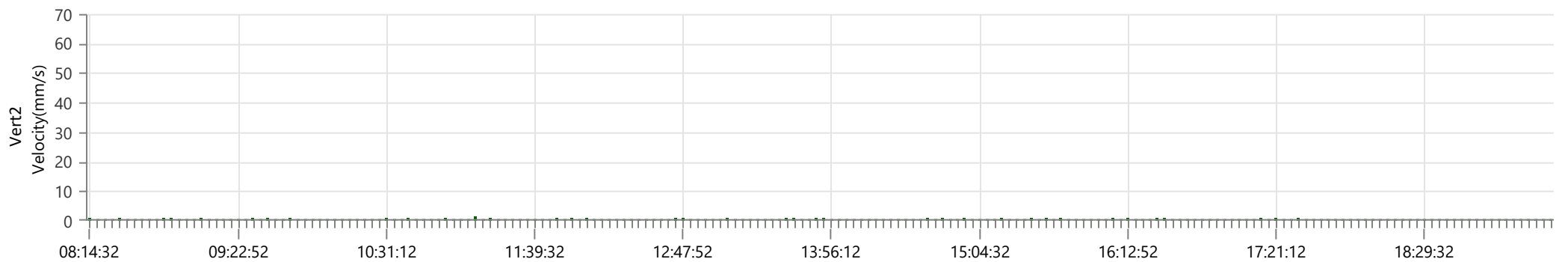
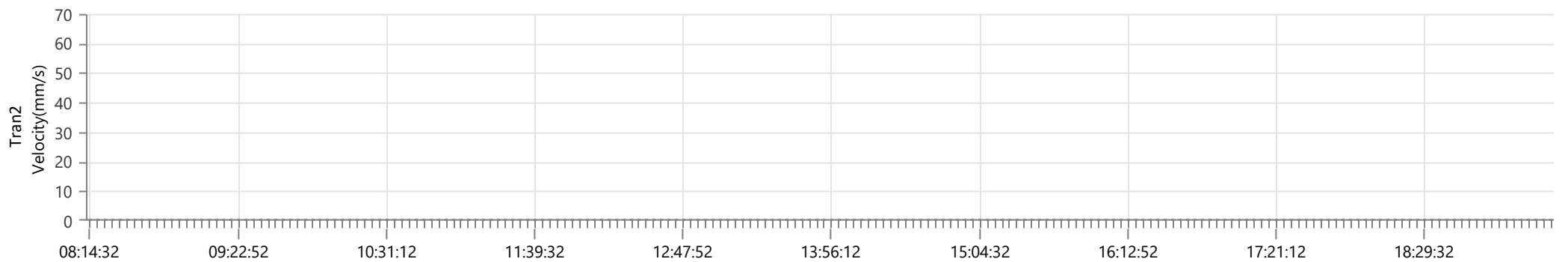
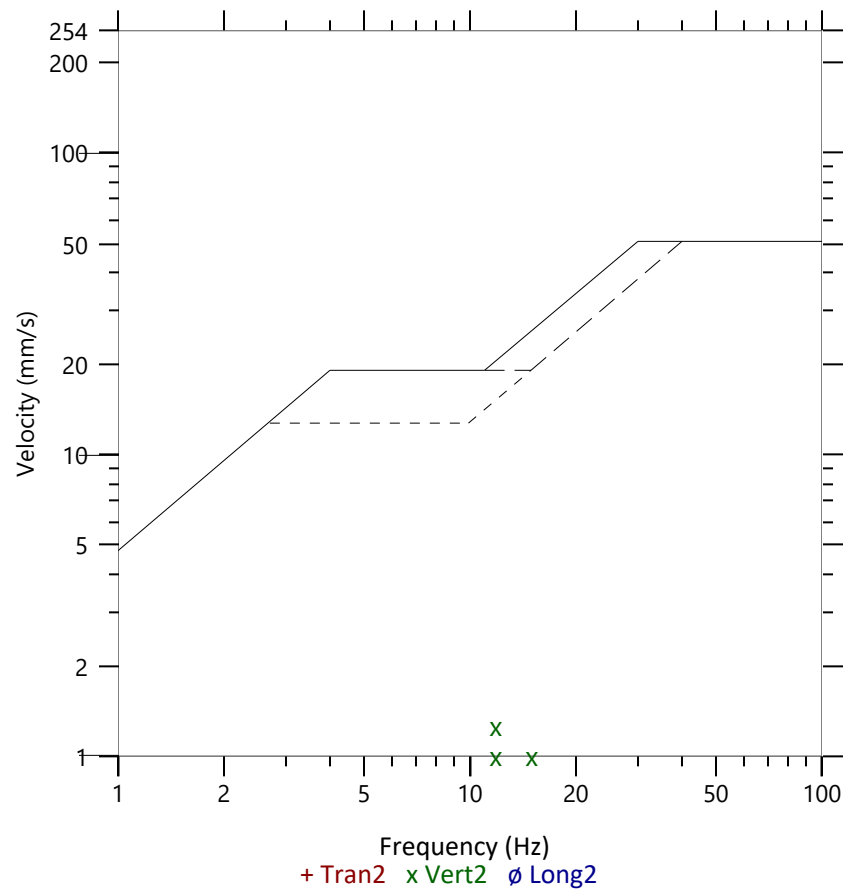
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.508 mm/s	1.270 mm/s	0.762 mm/s
Zero Crossing Frequency	22.3 Hz	11.9 Hz	13.1 Hz
Date	Oct 4, 2022	Oct 4, 2022	Oct 4, 2022
Time	08:49:57	11:13:57	08:49:47
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.6 Hz	7.9 Hz
Overswing Ratio	3.9	4.0	3.7
Peak Vector Sum	1.326 mm/s at October 4, 2022 11:13:57		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 5, 2022 07:57:43
Finish October 5, 2022 18:55:50
Number of Intervals/Interval 7897.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by InstanTEL
Event File Name BA19603_20221005075743.IDFH

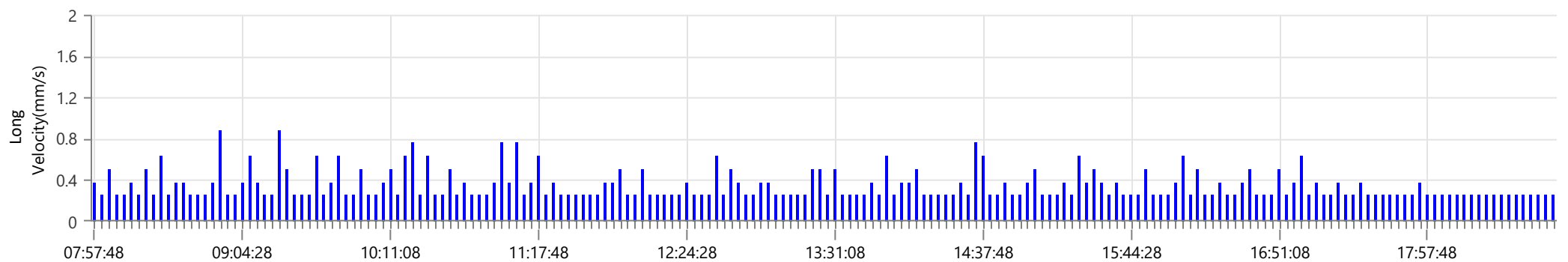
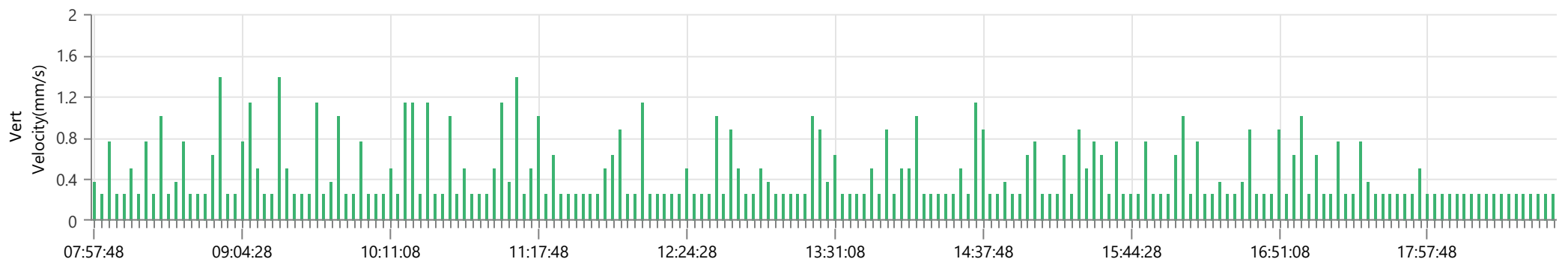
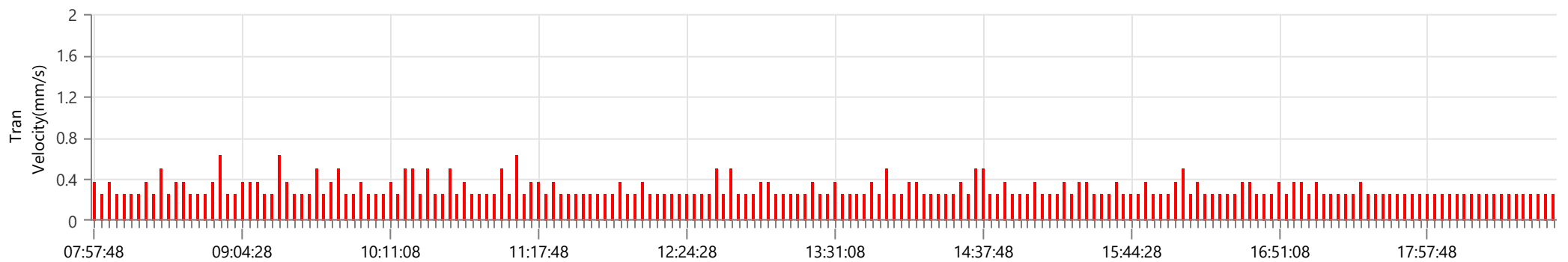
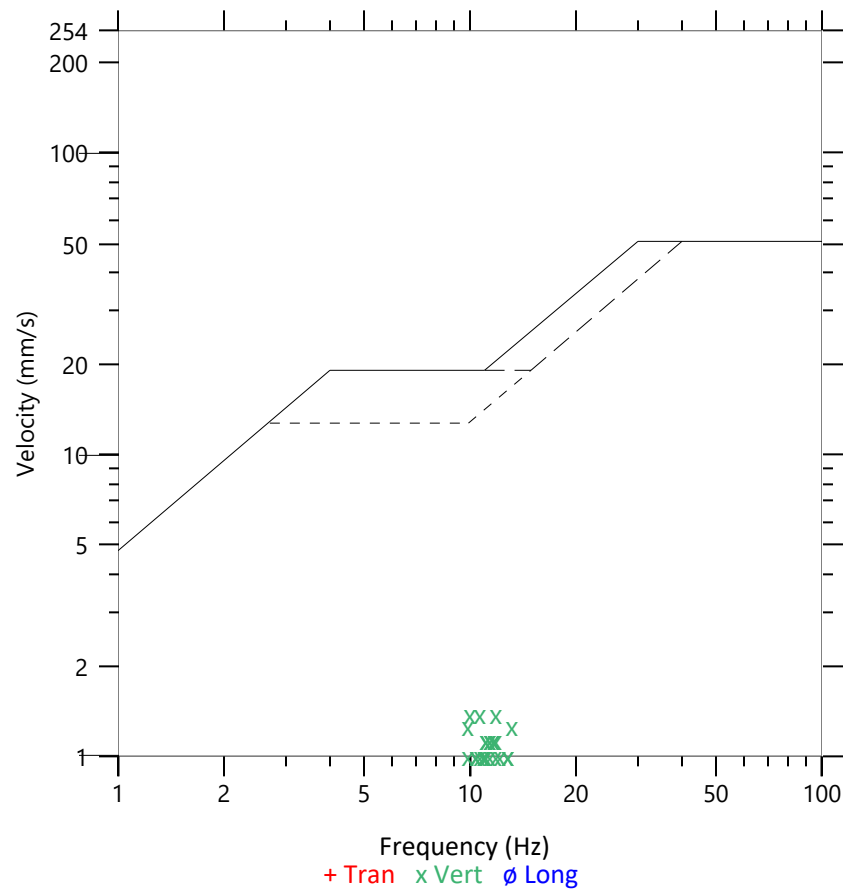
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	1.397 mm/s	0.889 mm/s
Zero Crossing Frequency	14.2 Hz	10.0 Hz	11.1 Hz
Date	Oct 5, 2022	Oct 5, 2022	Oct 5, 2022
Time	08:56:48	08:56:48	08:56:48
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.4 Hz	7.8 Hz
Overswing Ratio	3.7	3.7	3.6
Peak Vector Sum	1.470 mm/s at October 5, 2022 09:22:48		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 5, 2022 07:57:43
Finish October 5, 2022 18:55:50
Number of Intervals/Interval 7897.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221005075743.IDFH

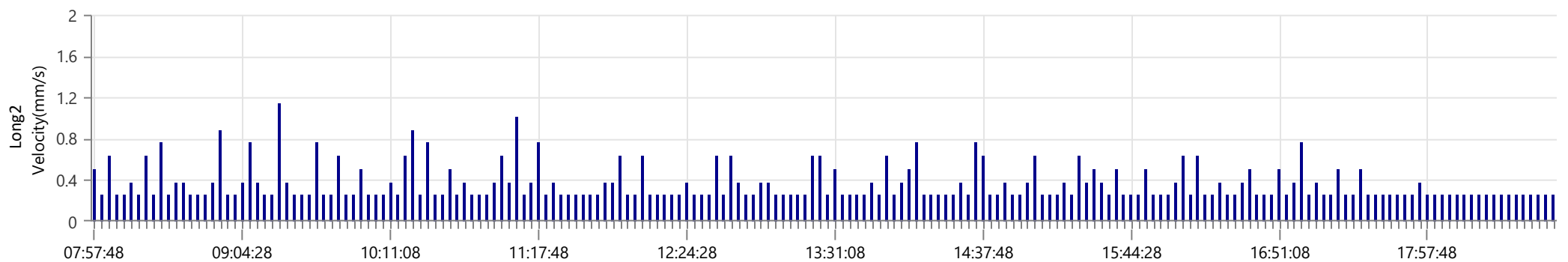
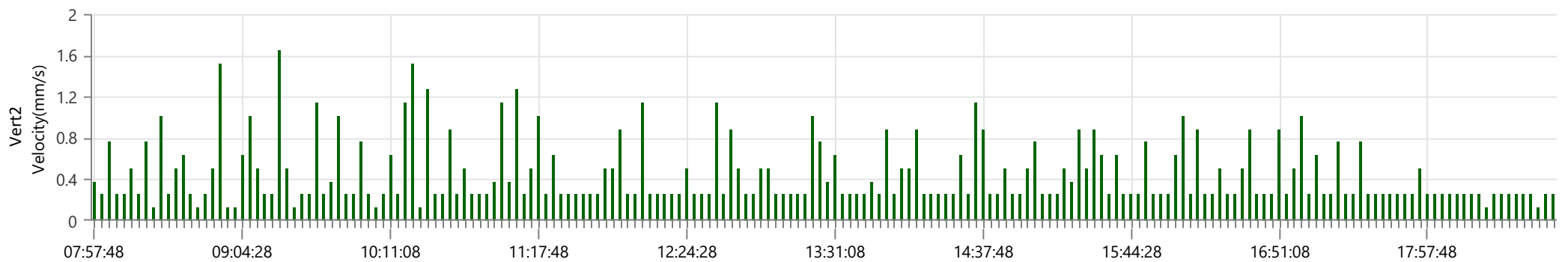
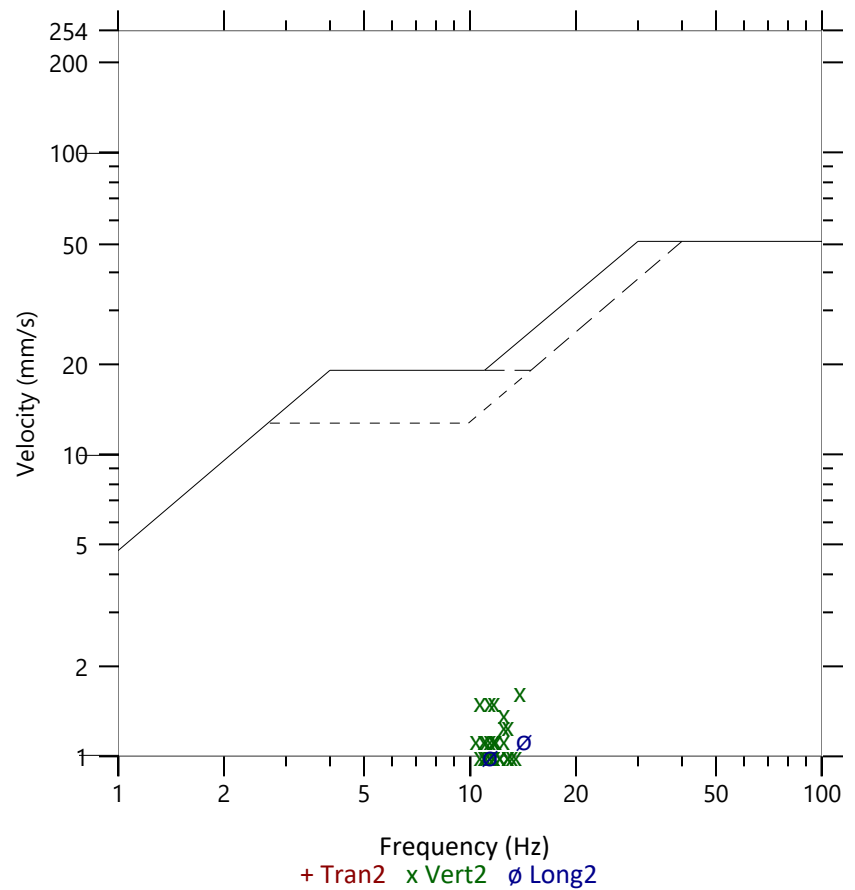
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.635 mm/s	1.651 mm/s	1.143 mm/s
Zero Crossing Frequency	13.5 Hz	13.8 Hz	14.2 Hz
Date	Oct 5, 2022	Oct 5, 2022	Oct 5, 2022
Time	08:56:48	09:22:53	09:22:53
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.7 Hz
Overswing Ratio	3.8	4.1	3.7
Peak Vector Sum	1.694 mm/s at October 5, 2022 09:22:53		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 6, 2022 07:48:36
Finish October 6, 2022 19:47:13
Number of Intervals/Interval 8623.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221006074836.IDFH

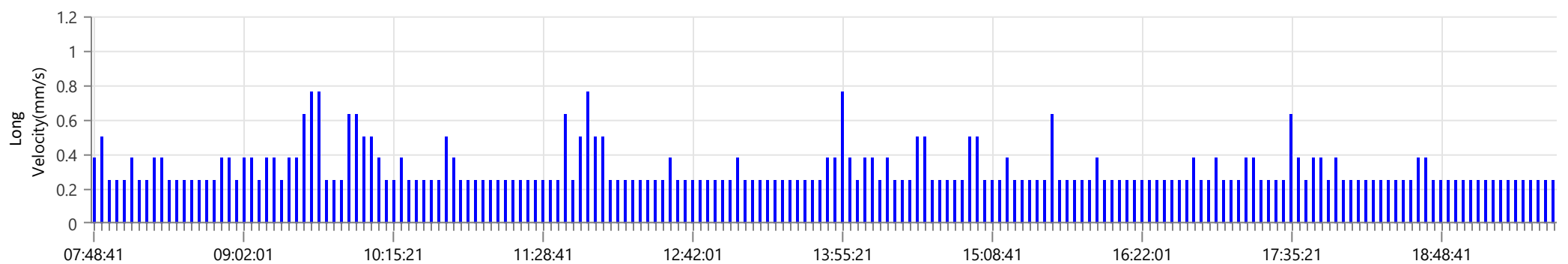
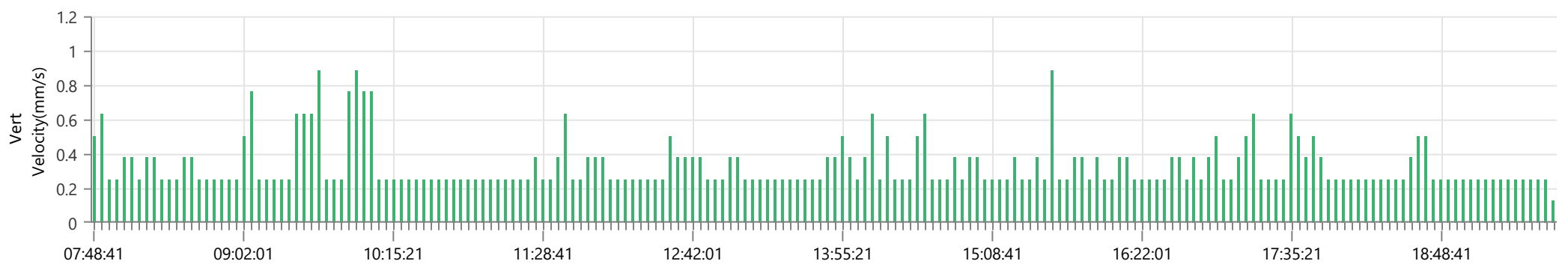
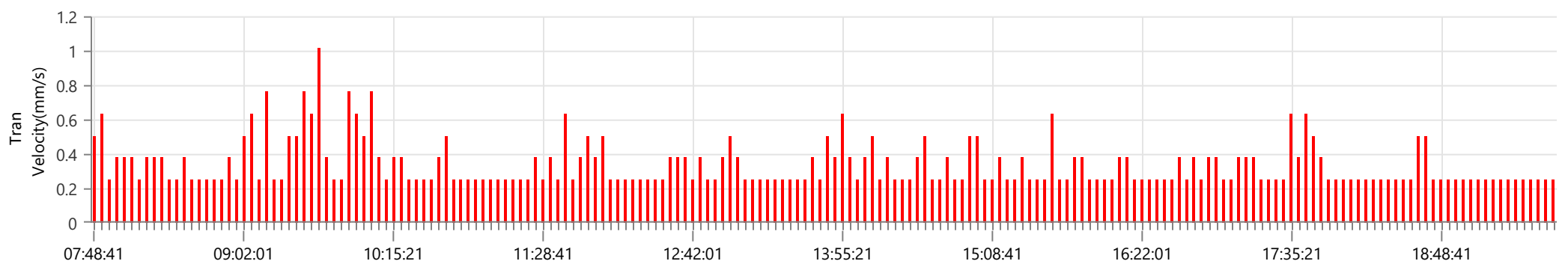
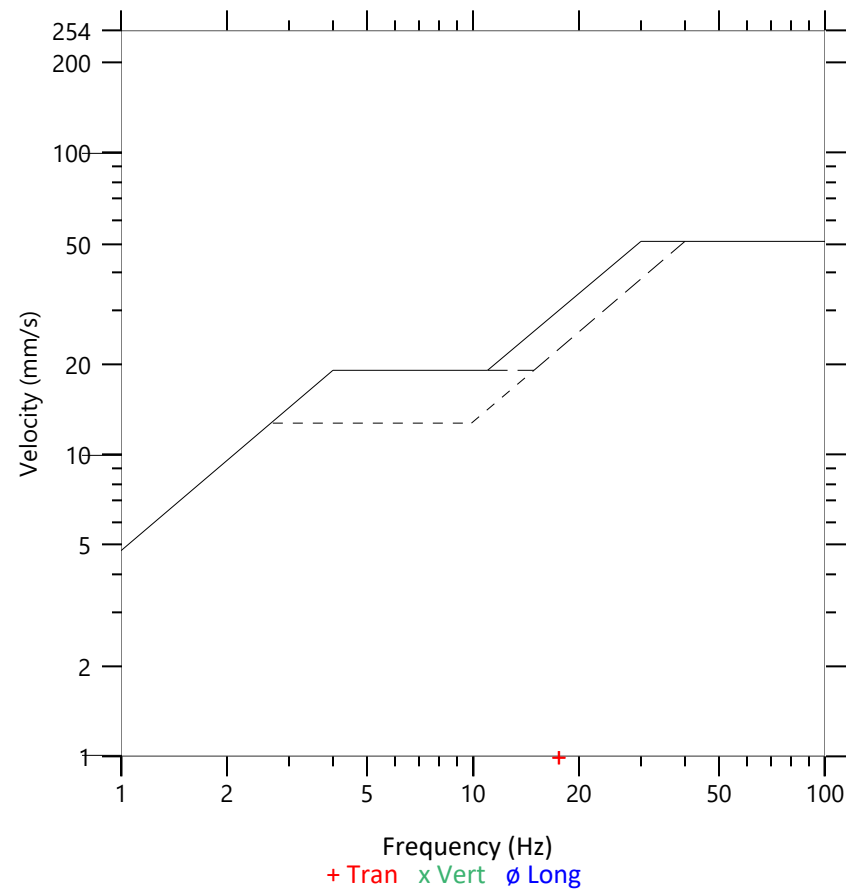
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.016 mm/s	0.889 mm/s	0.762 mm/s
Zero Crossing Frequency	17.7 Hz	16.5 Hz	22.3 Hz
Date	Oct 6, 2022	Oct 6, 2022	Oct 6, 2022
Time	09:41:31	09:41:31	09:38:21
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.6 Hz
Overswing Ratio	3.6	3.8	3.7
Peak Vector Sum	1.205 mm/s at October 6, 2022 09:41:36		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 6, 2022 07:48:36
Finish October 6, 2022 19:47:13
Number of Intervals/Interval 8623.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221006074836.IDFH

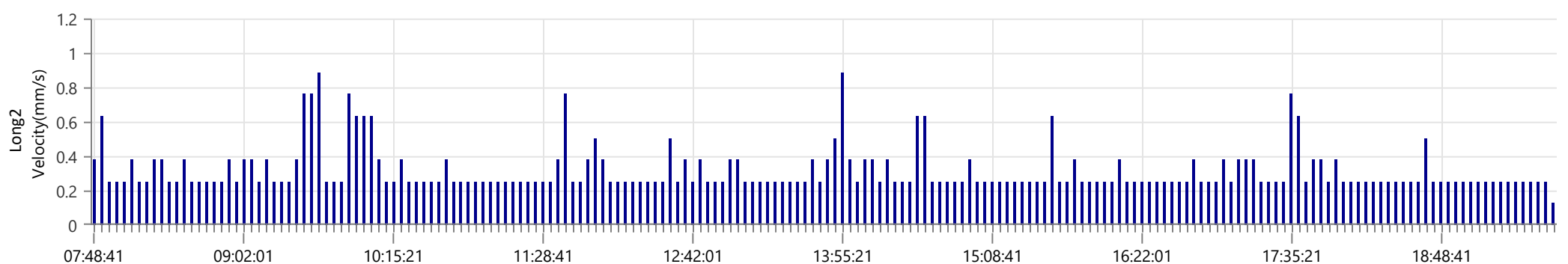
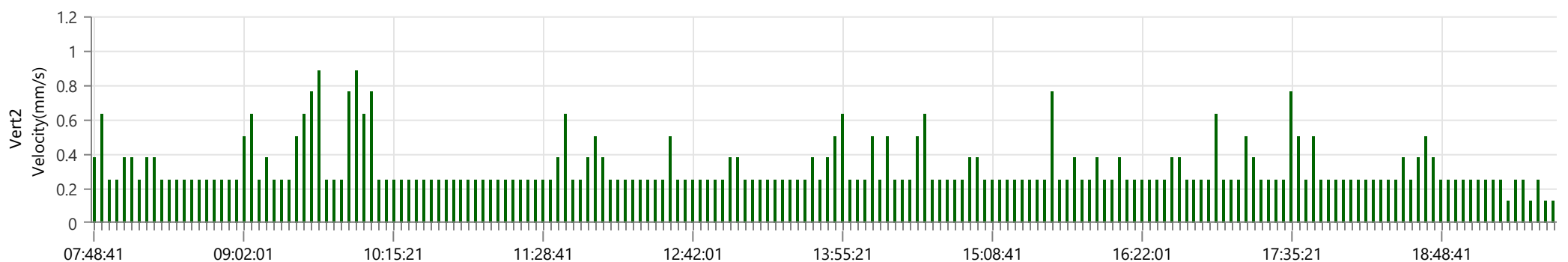
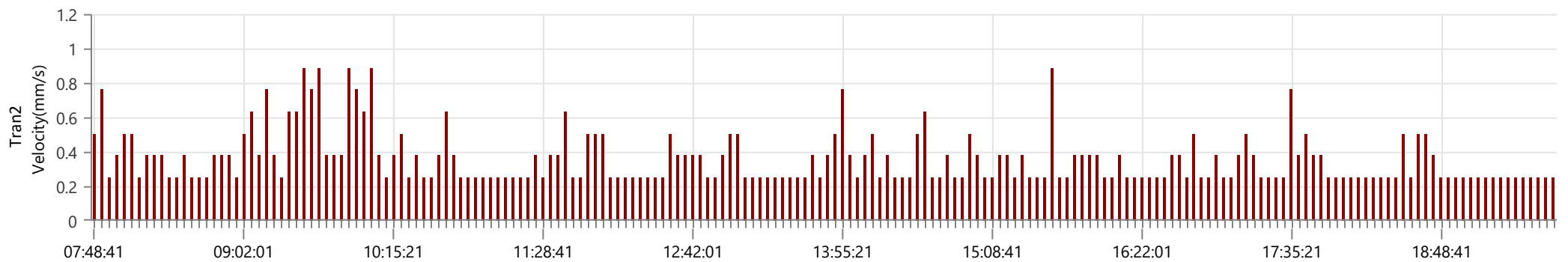
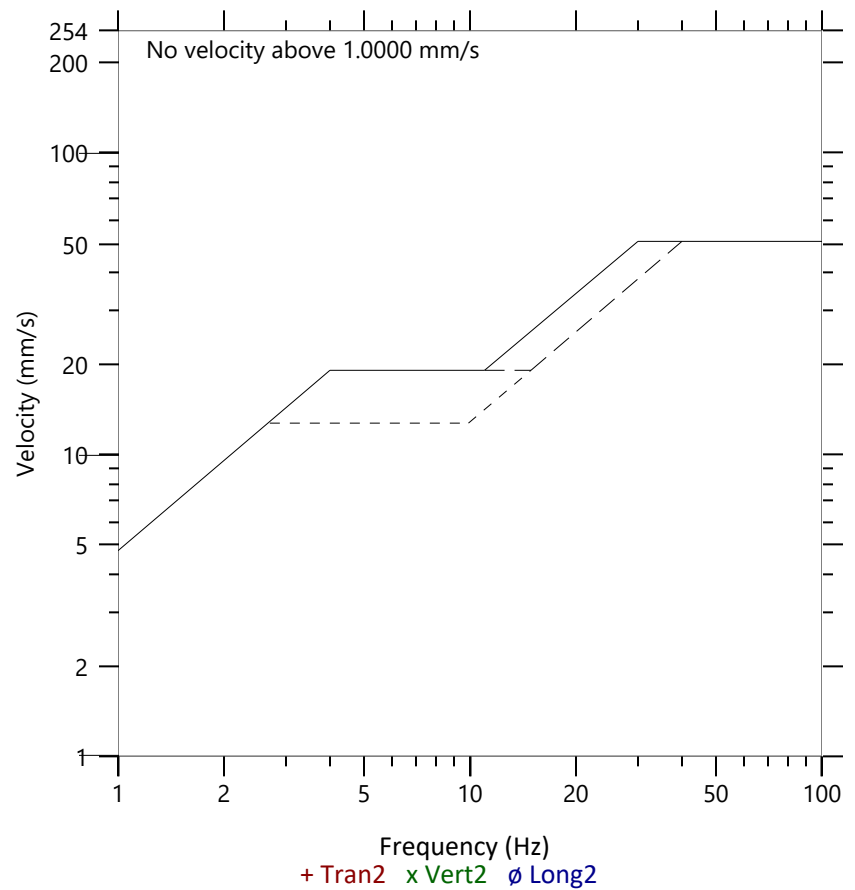
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.889 mm/s	0.889 mm/s	0.889 mm/s
Zero Crossing Frequency	19.7 Hz	15.5 Hz	19.7 Hz
Date	Oct 6, 2022	Oct 6, 2022	Oct 6, 2022
Time	09:33:16	09:41:36	09:38:56
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.8	4.1	3.8
Peak Vector Sum	1.063 mm/s at October 6, 2022 09:41:36		

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 7, 2022 08:23:52
Finish October 7, 2022 16:21:52
Number of Intervals/Interval 5736.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.7 volts
Battery Error (Battery very low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221007082352.IDFH

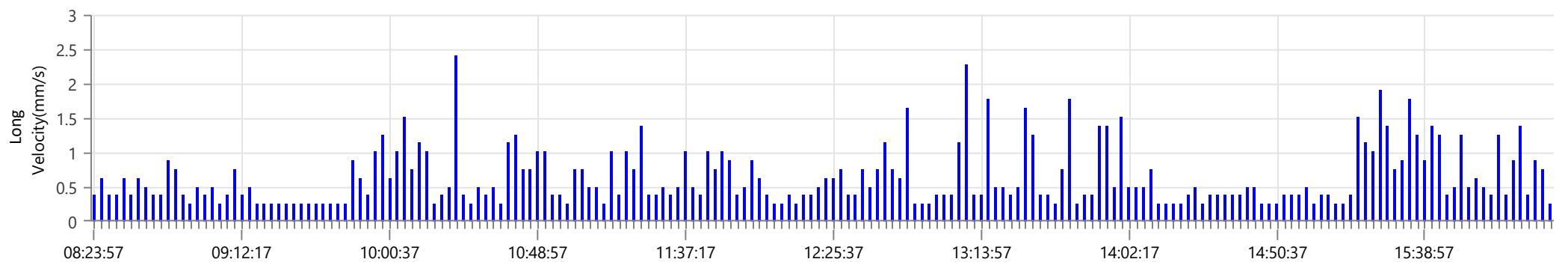
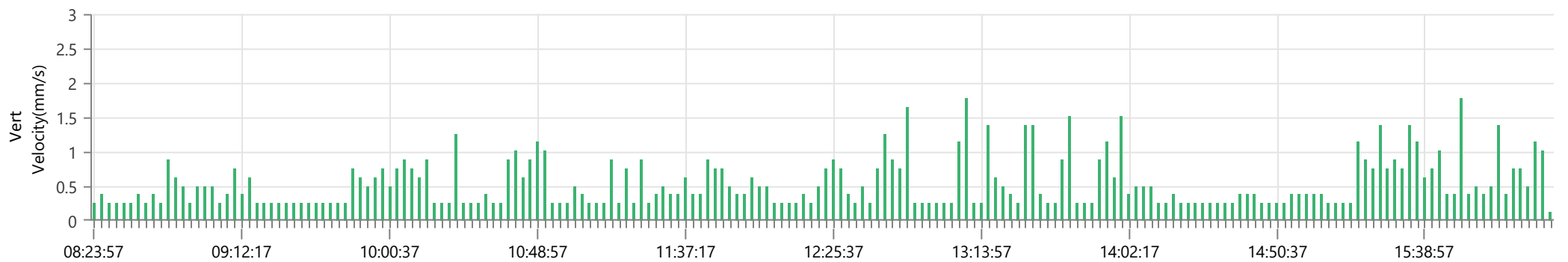
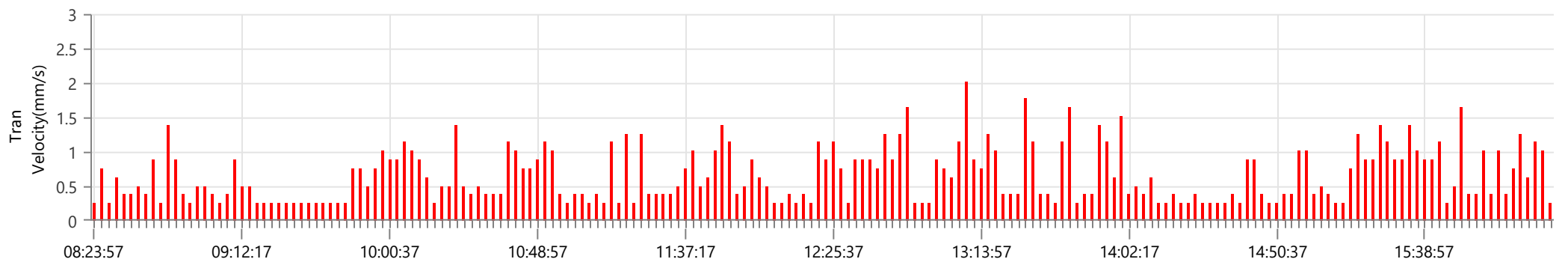
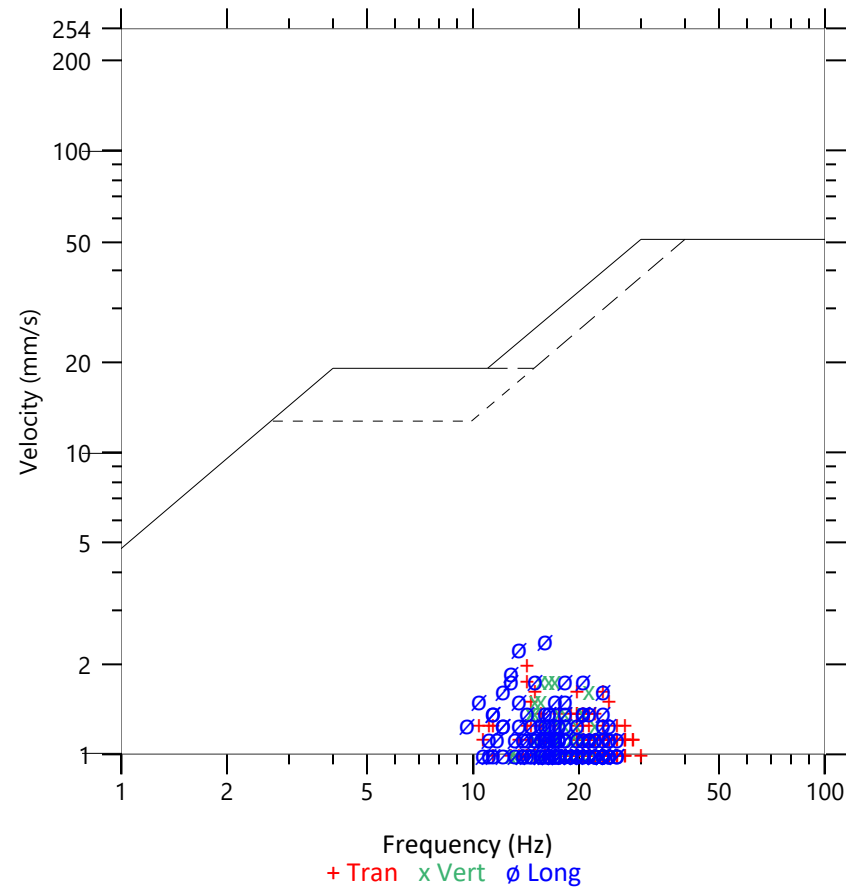
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.032 mm/s	1.778 mm/s	2.413 mm/s
Zero Crossing Frequency	14.2 Hz	16.5 Hz	16.0 Hz
Date	Oct 7, 2022	Oct 7, 2022	Oct 7, 2022
Time	13:09:52	13:09:57	10:24:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.5 Hz
Overswing Ratio	3.6	3.8	3.7
Peak Vector Sum	2.664 mm/s at October 7, 2022 10:24:32		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 7, 2022 08:23:52
Finish October 7, 2022 16:21:52
Number of Intervals/Interval 5736.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.7 volts
Battery Error (Battery very low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221007082352.IDFH

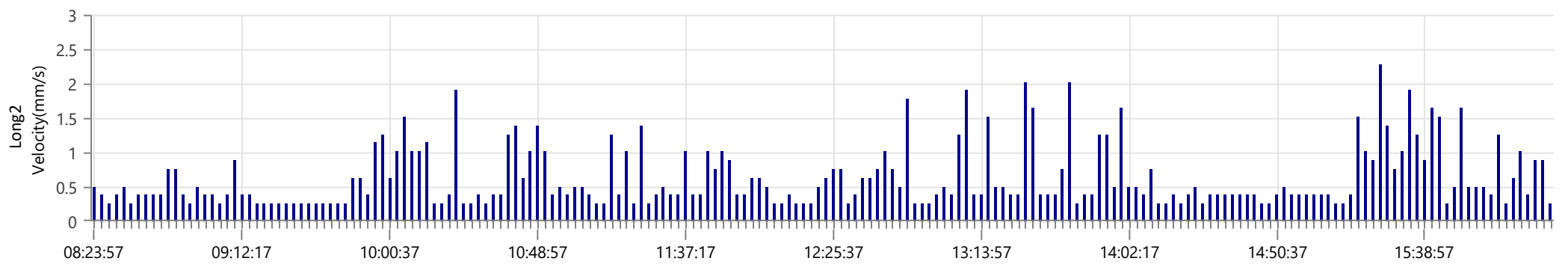
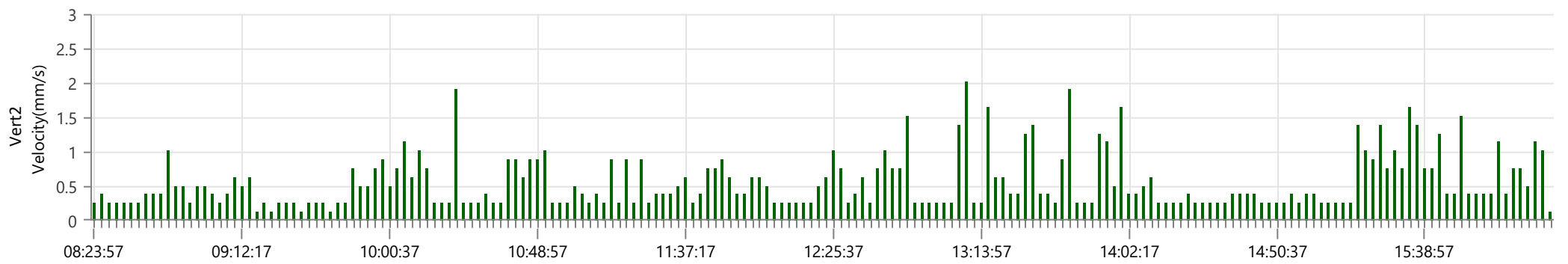
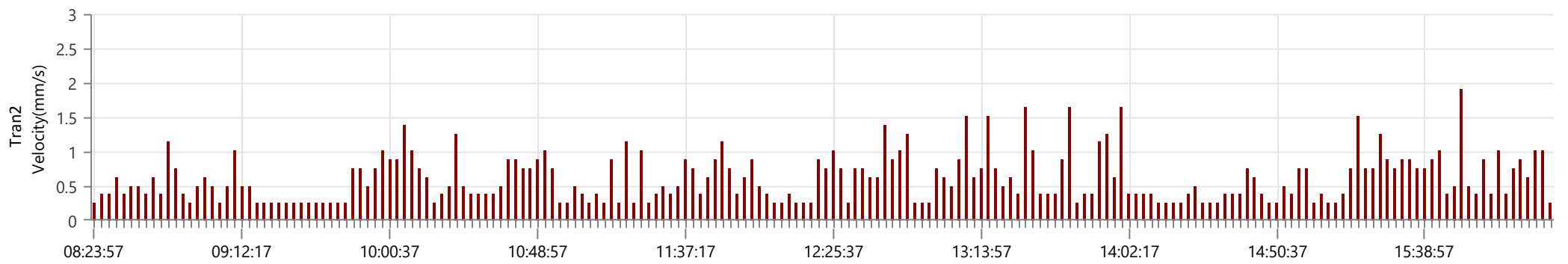
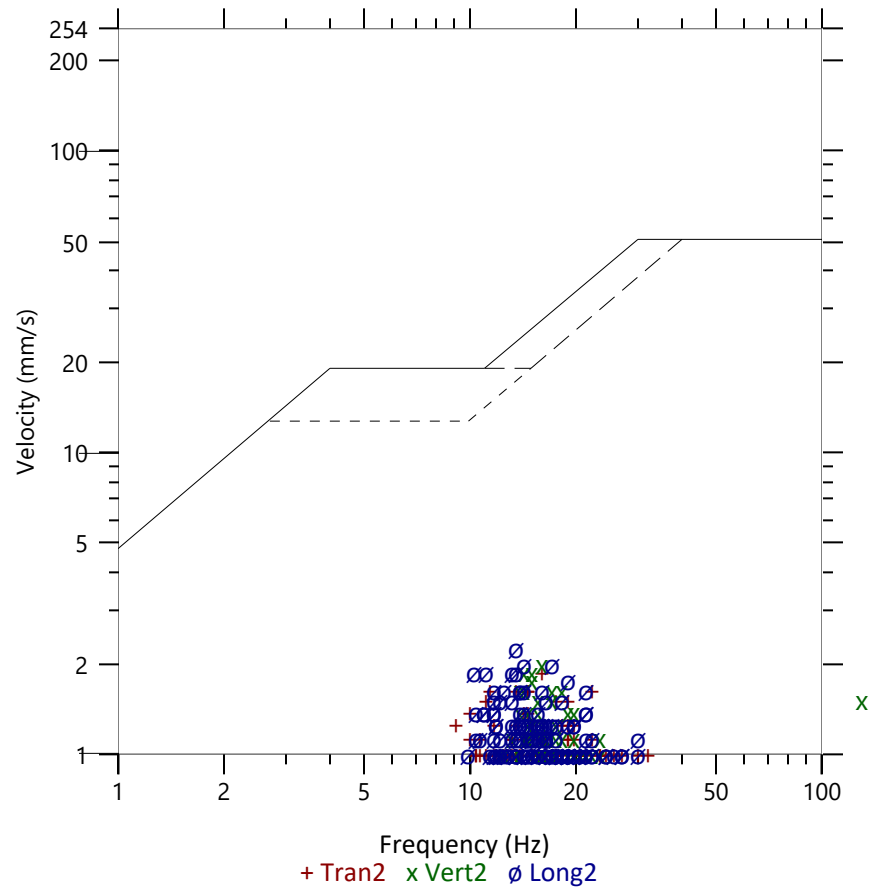
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	2.032 mm/s	2.286 mm/s
Zero Crossing Frequency	16.0 Hz	16.0 Hz	13.5 Hz
Date	Oct 7, 2022	Oct 7, 2022	Oct 7, 2022
Time	15:52:47	13:09:57	15:25:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.7 Hz
Overswing Ratio	3.7	4.0	3.7
Peak Vector Sum	2.572 mm/s at October 7, 2022 13:09:57		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 11, 2022 09:50:36
Finish October 11, 2022 18:44:08
Number of Intervals/Interval 6402.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221011095036.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

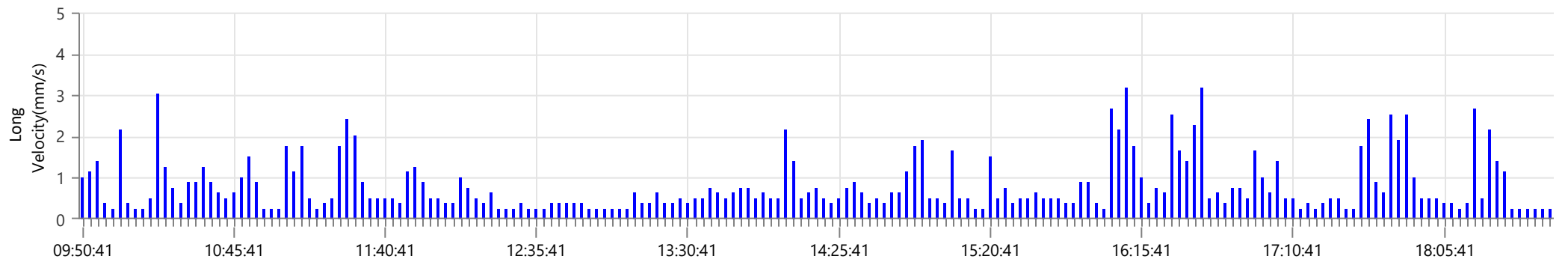
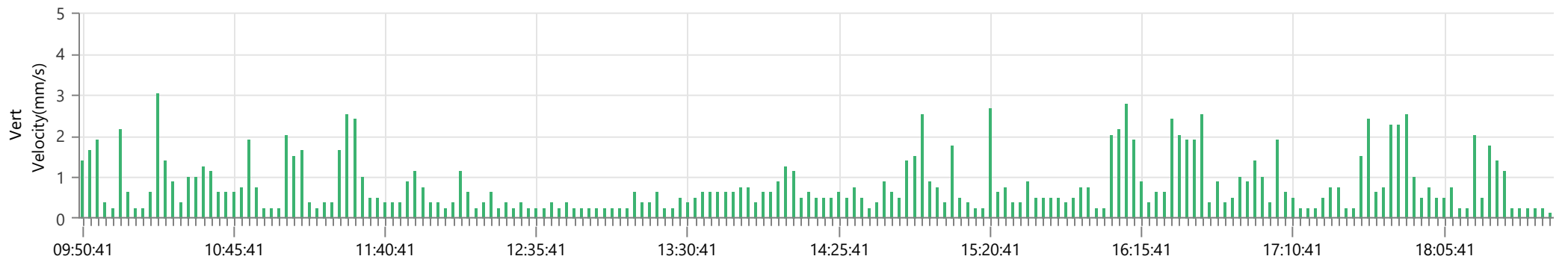
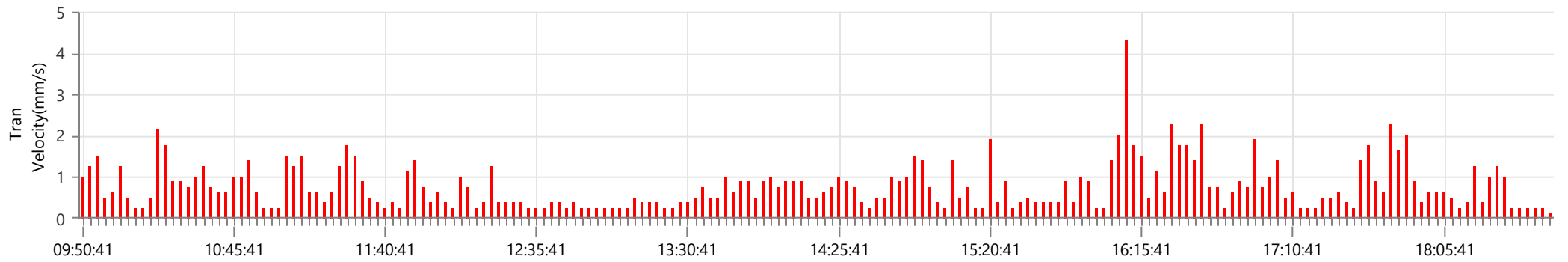
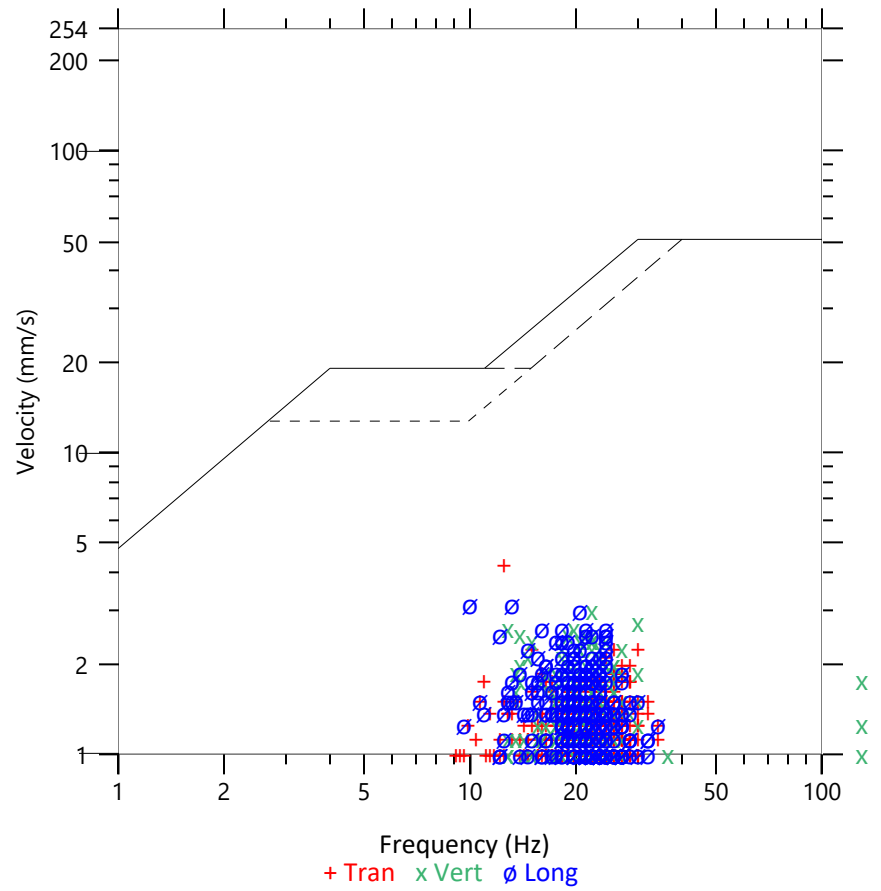
Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.318 mm/s	3.048 mm/s	3.175 mm/s
Zero Crossing Frequency	12.5 Hz	22.3 Hz	10.0 Hz
Date	Oct 11, 2022	Oct 11, 2022	Oct 11, 2022
Time	16:12:11	10:20:41	16:12:11
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.7	3.8	3.7

Peak Vector Sum 5.209 mm/s at October 11, 2022 16:12:11

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 11, 2022 09:50:36
Finish October 11, 2022 18:44:08
Number of Intervals/Interval 6402.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221011095036.IDFH

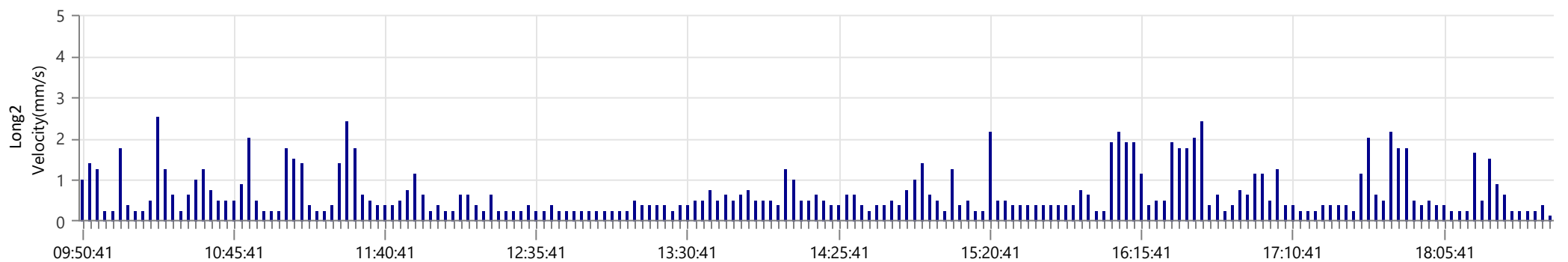
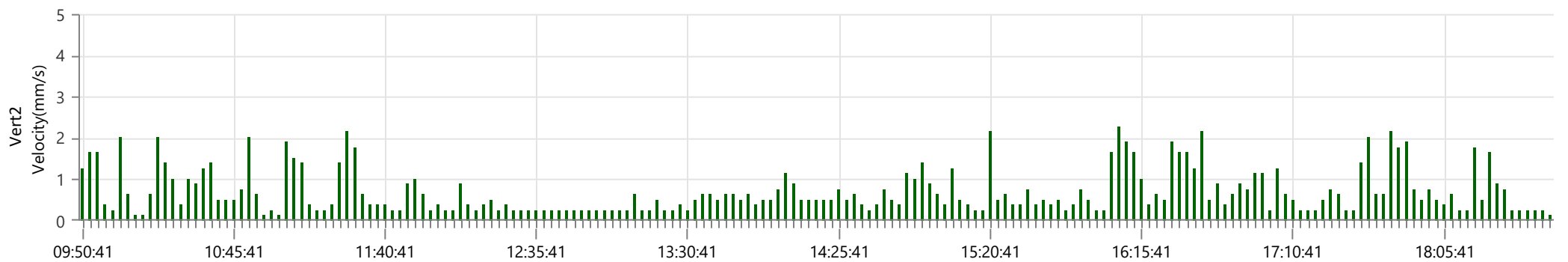
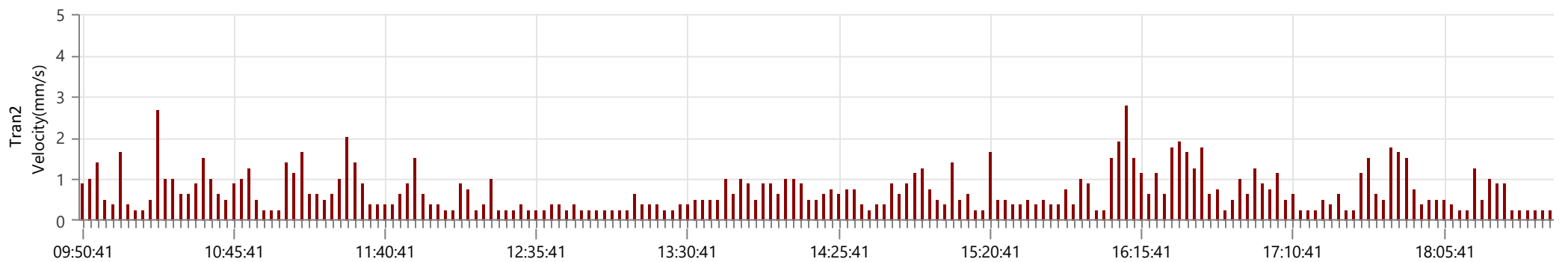
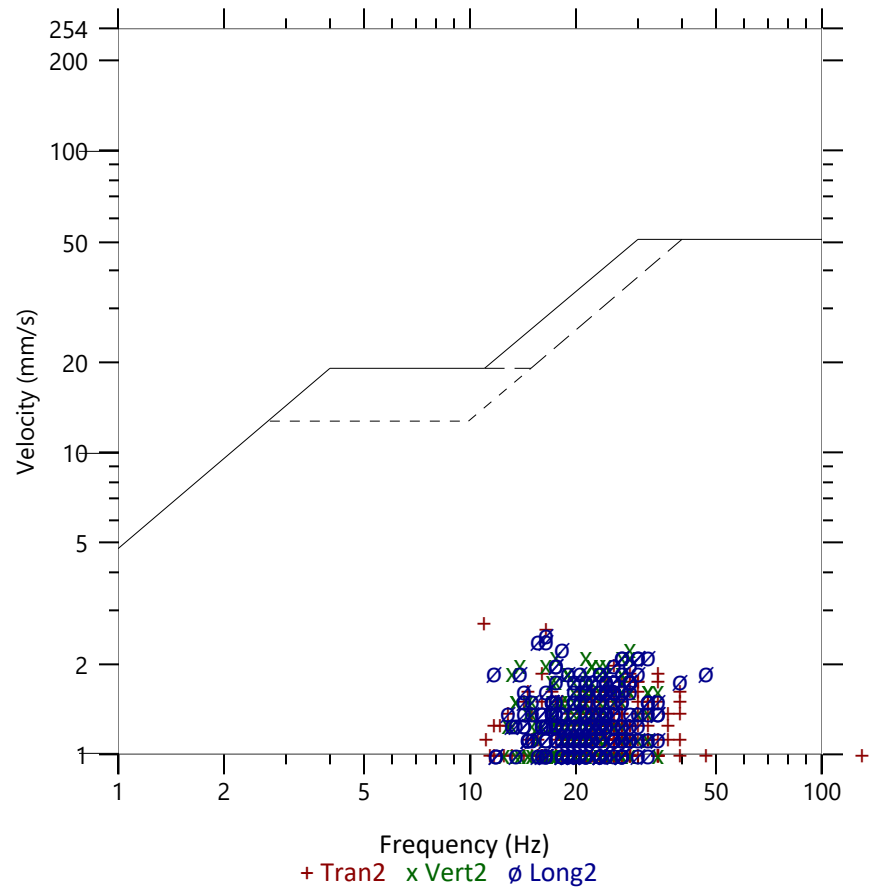
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.794 mm/s	2.286 mm/s	2.540 mm/s
Zero Crossing Frequency	10.9 Hz	28.4 Hz	16.5 Hz
Date	Oct 11, 2022	Oct 11, 2022	Oct 11, 2022
Time	16:12:11	16:08:11	10:20:41
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.7	4.1	3.7
Peak Vector Sum	3.639 mm/s at October 11, 2022 10:20:41		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 12, 2022 10:02:33
Finish October 12, 2022 19:30:51
Number of Intervals/Interval 6819.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221012100233.IDFH

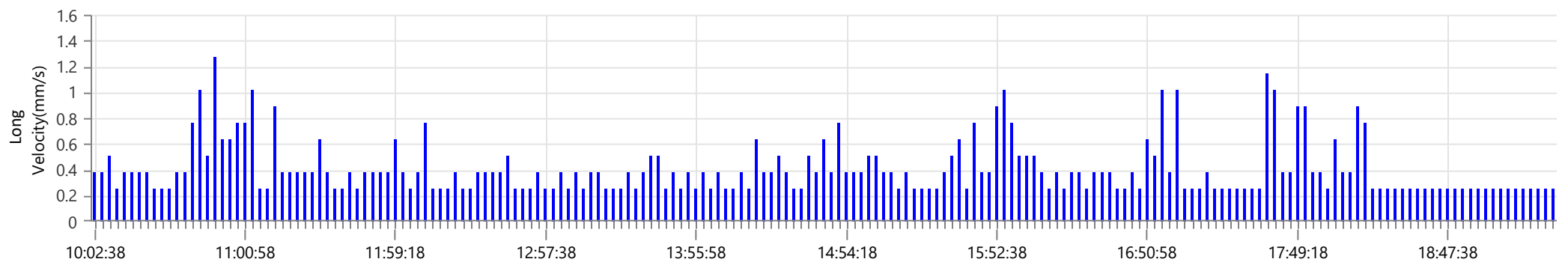
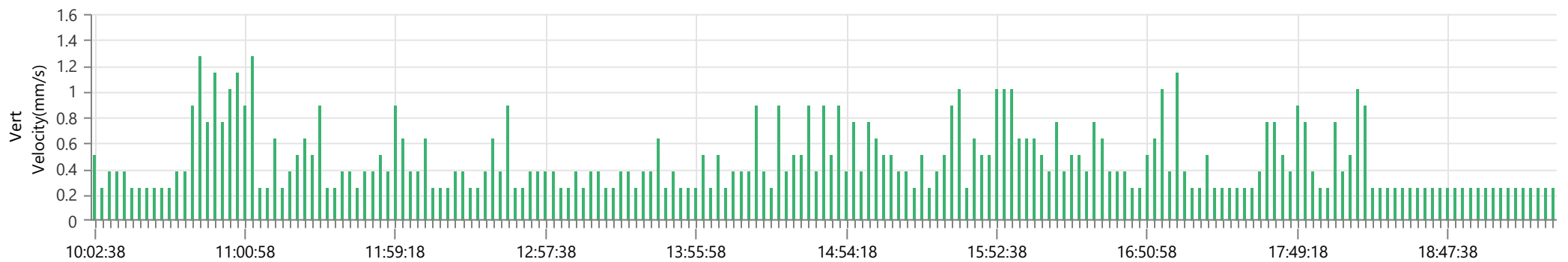
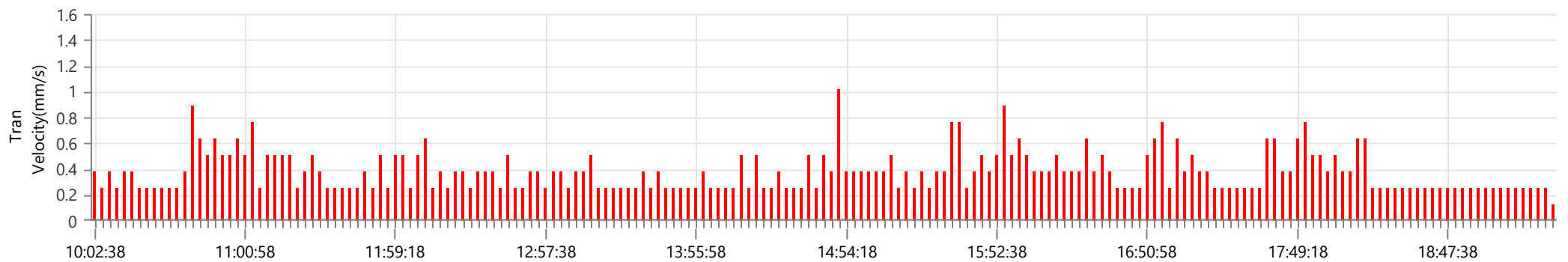
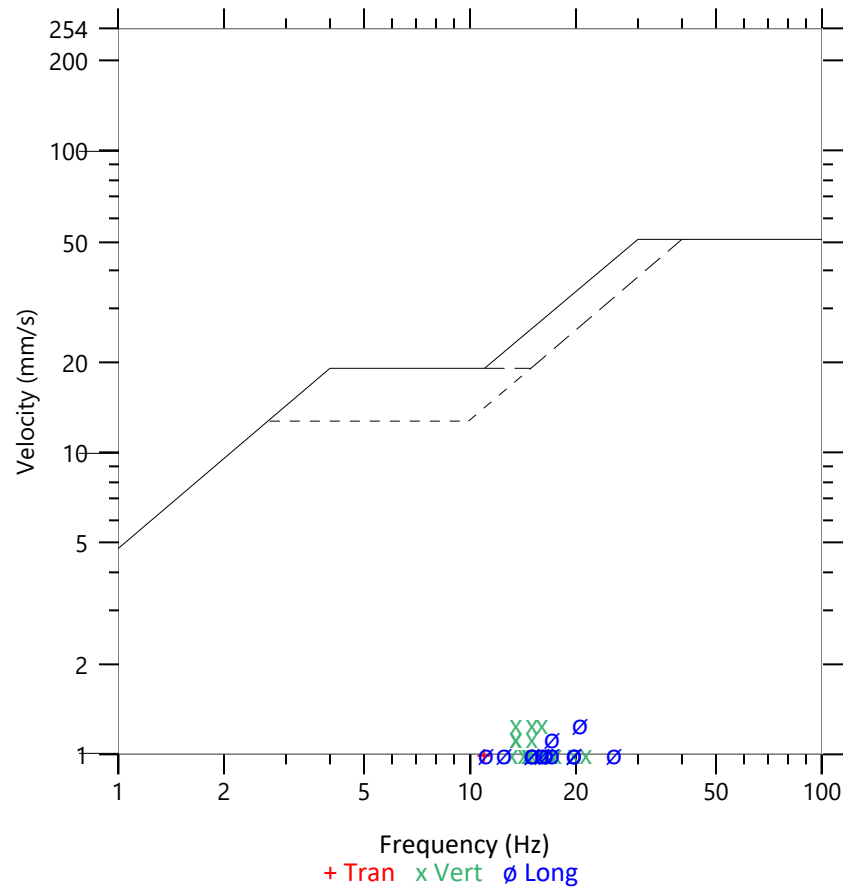
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.016 mm/s	1.270 mm/s	1.270 mm/s
Zero Crossing Frequency	10.9 Hz	15.1 Hz	20.5 Hz
Date	Oct 12, 2022	Oct 12, 2022	Oct 12, 2022
Time	14:51:38	10:45:08	10:51:23
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.7	3.8	3.7
Peak Vector Sum	1.350 mm/s at October 12, 2022 10:45:08		

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 12, 2022 10:02:33
Finish October 12, 2022 19:30:51
Number of Intervals/Interval 6819.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221012100233.IDFH

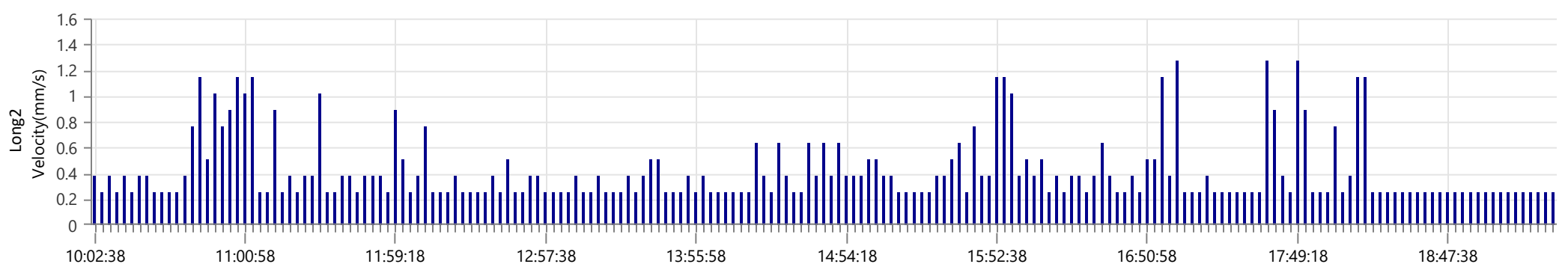
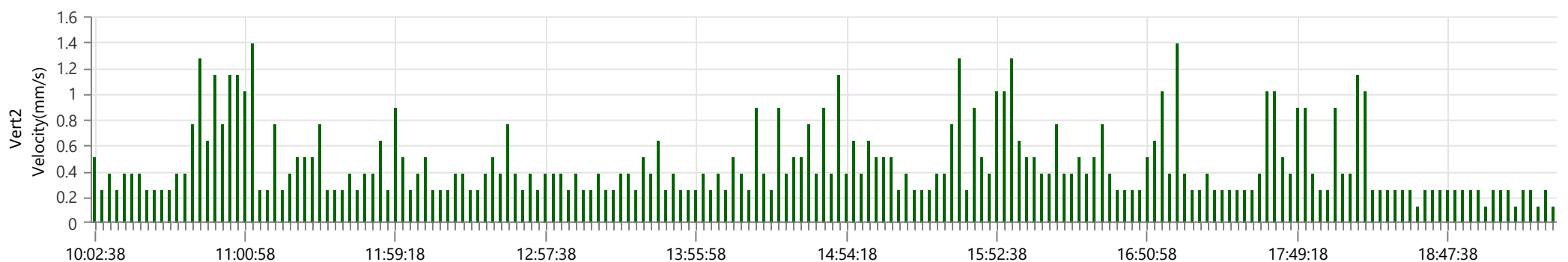
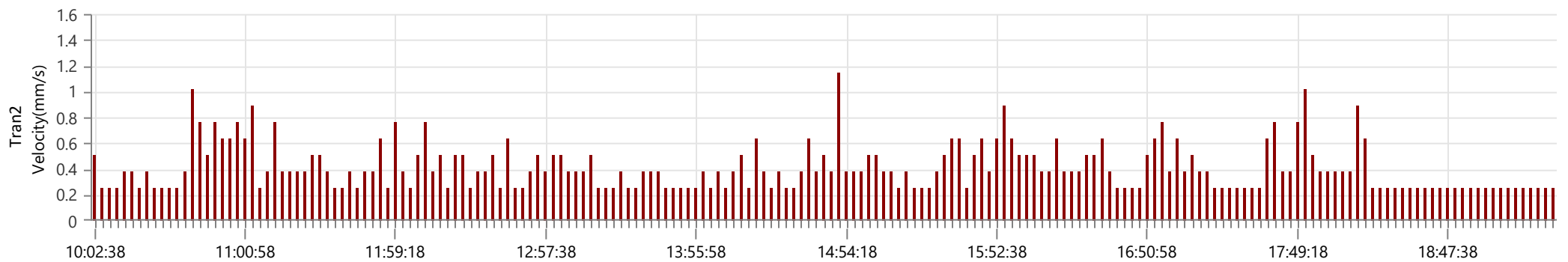
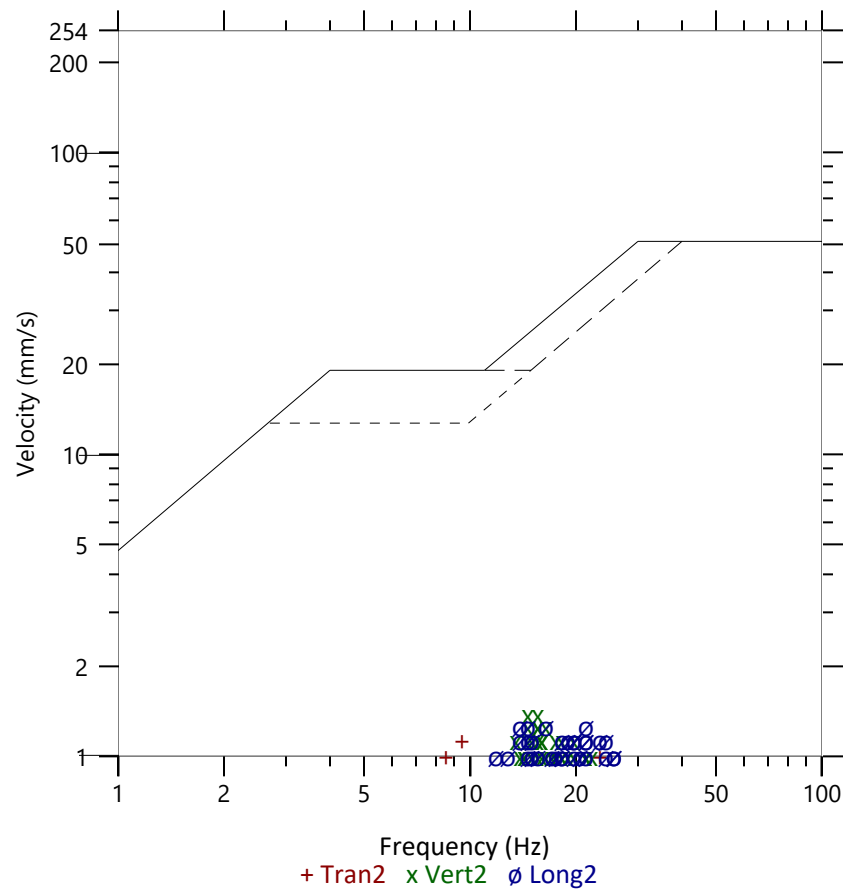
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.143 mm/s	1.397 mm/s	1.270 mm/s
Zero Crossing Frequency	9.5 Hz	14.6 Hz	13.8 Hz
Date	Oct 12, 2022	Oct 12, 2022	Oct 12, 2022
Time	14:51:38	11:06:03	17:04:43
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.7	4.1	3.7
Peak Vector Sum	1.529 mm/s at October 12, 2022 10:45:08		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 13, 2022 08:28:48
Finish October 13, 2022 19:14:52
Number of Intervals/Interval 7752.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221013082848.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

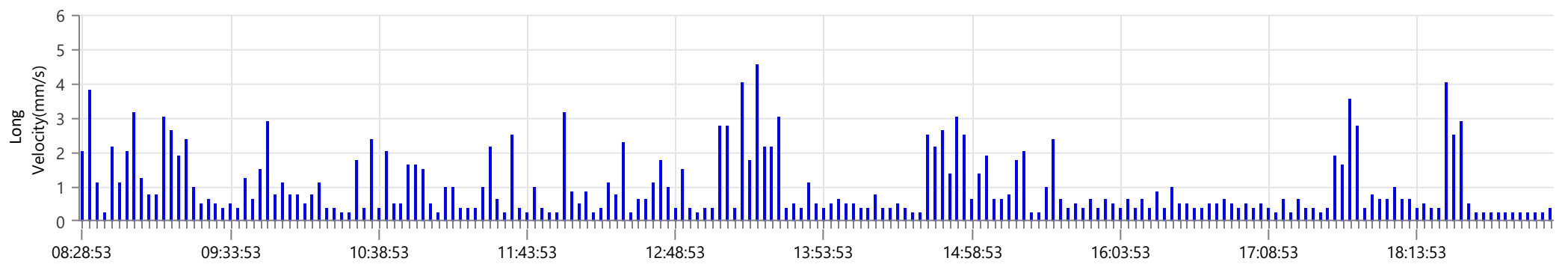
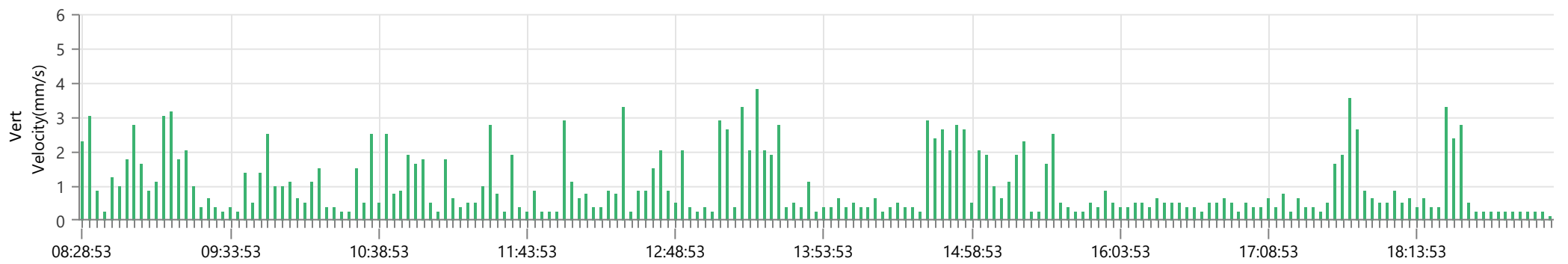
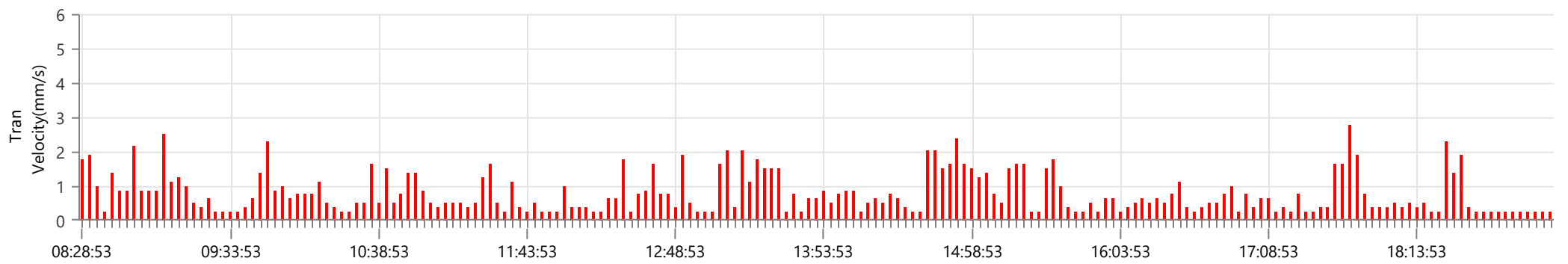
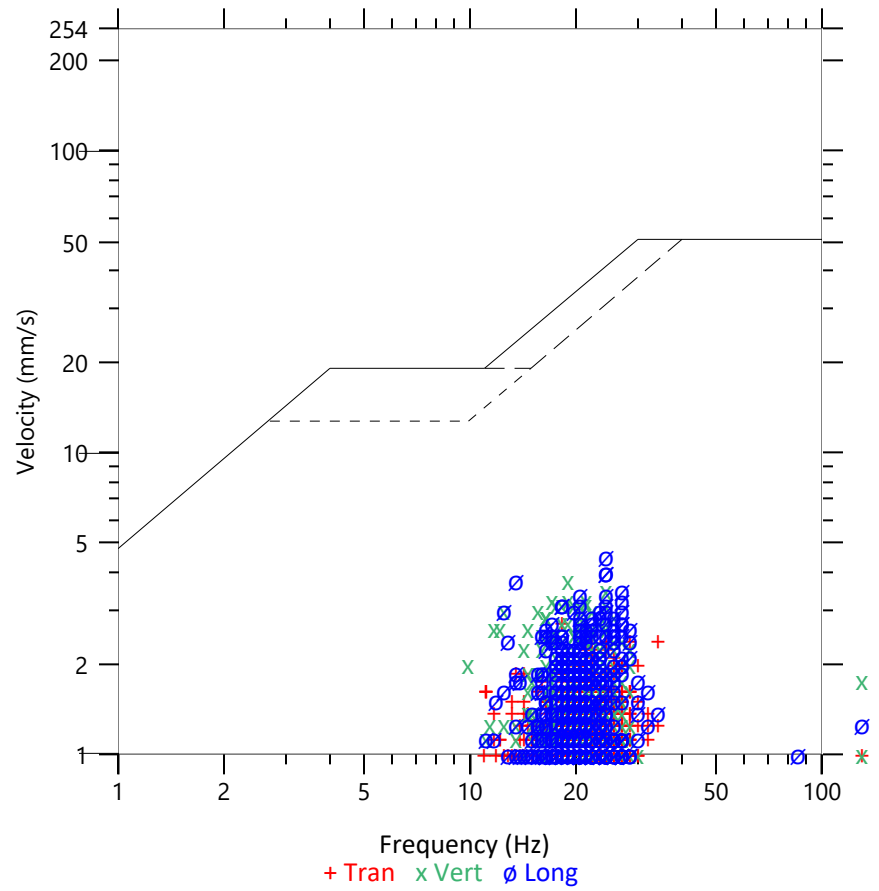
Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.794 mm/s	3.810 mm/s	4.572 mm/s
Zero Crossing Frequency	18.3 Hz	19.0 Hz	24.4 Hz
Date	Oct 13, 2022	Oct 13, 2022	Oct 13, 2022
Time	17:45:08	13:26:23	13:26:23
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.8	4.1	3.7

Peak Vector Sum 4.602 mm/s at October 13, 2022 13:26:23

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 13, 2022 08:28:48
Finish October 13, 2022 19:14:52
Number of Intervals/Interval 7752.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221013082848.IDFH

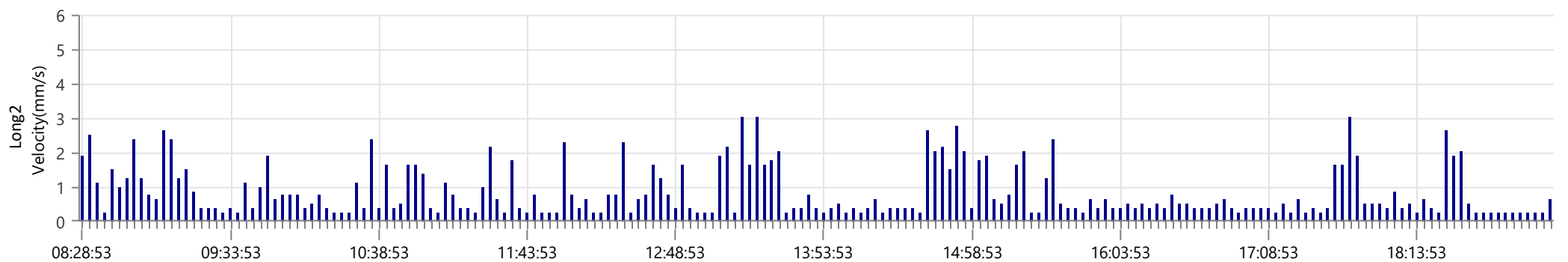
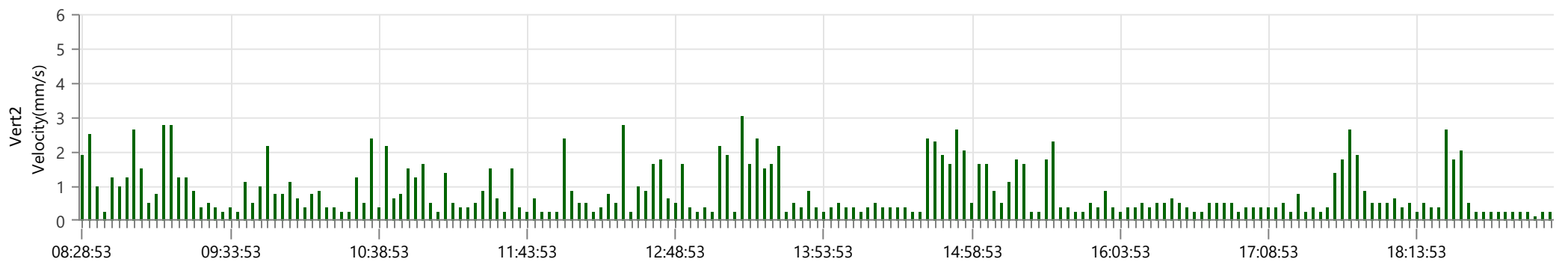
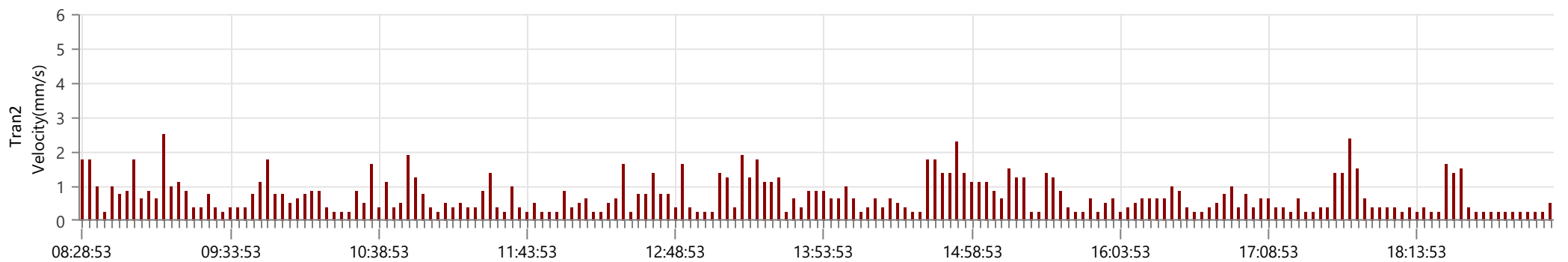
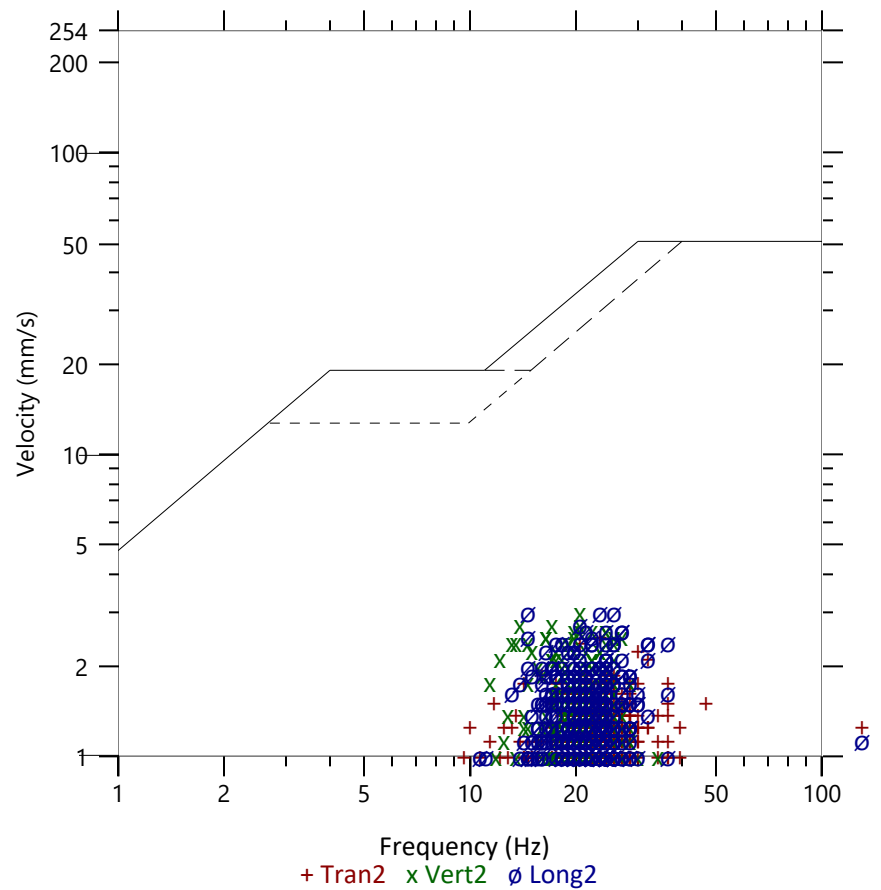
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.540 mm/s	3.048 mm/s	3.048 mm/s
Zero Crossing Frequency	23.3 Hz	20.5 Hz	23.3 Hz
Date	Oct 13, 2022	Oct 13, 2022	Oct 13, 2022
Time	09:06:38	13:20:43	13:20:43
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.6	3.8	3.7
Peak Vector Sum	3.835 mm/s at October 13, 2022 09:06:38		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 14, 2022 09:11:18
Finish October 14, 2022 19:00:50
Number of Intervals/Interval 7074.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by InstanTEL
Event File Name BA19603_20221014091118.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

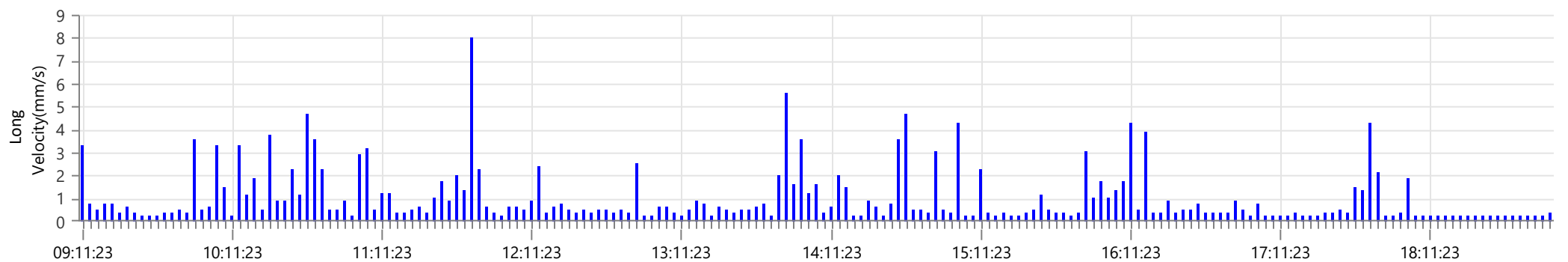
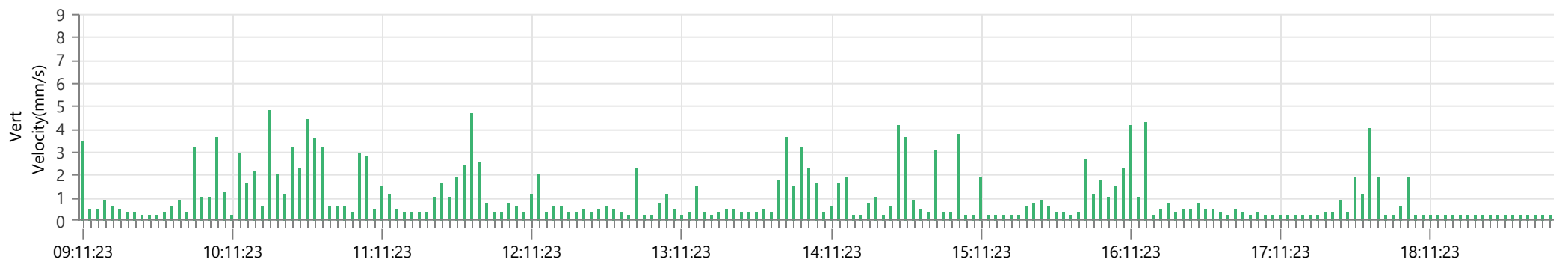
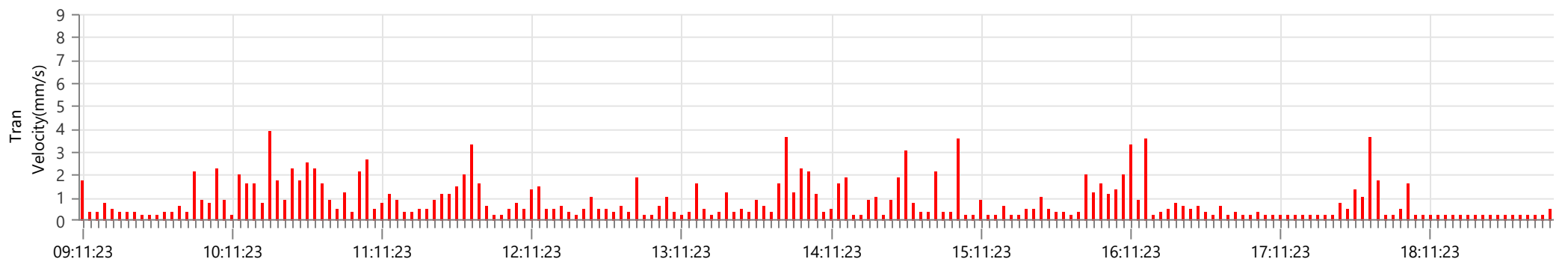
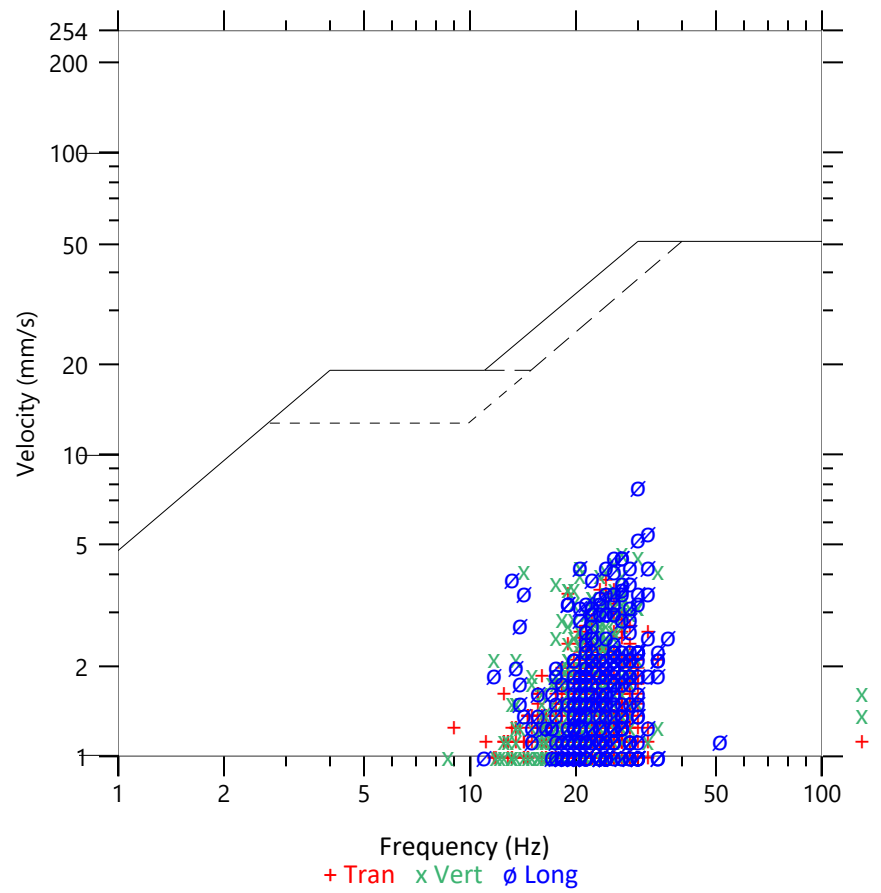
Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.937 mm/s	4.826 mm/s	8.001 mm/s
Zero Crossing Frequency	24.4 Hz	26.9 Hz	30.1 Hz
Date	Oct 14, 2022	Oct 14, 2022	Oct 14, 2022
Time	10:27:03	10:27:03	11:50:13
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.5 Hz	7.5 Hz	8.1 Hz
Overswing Ratio	3.7	4.0	3.6

Peak Vector Sum 8.005 mm/s at October 14, 2022 11:50:13

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 14, 2022 09:11:18
Finish October 14, 2022 19:00:50
Number of Intervals/Interval 7074.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221014091118.IDFH

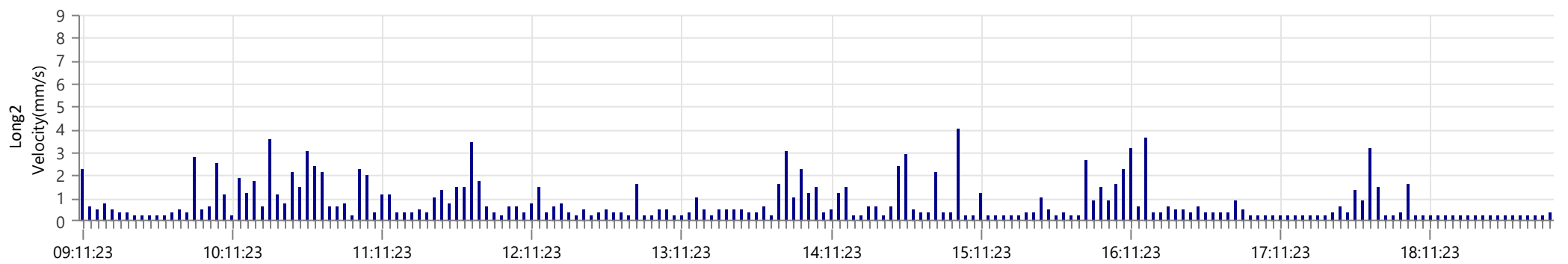
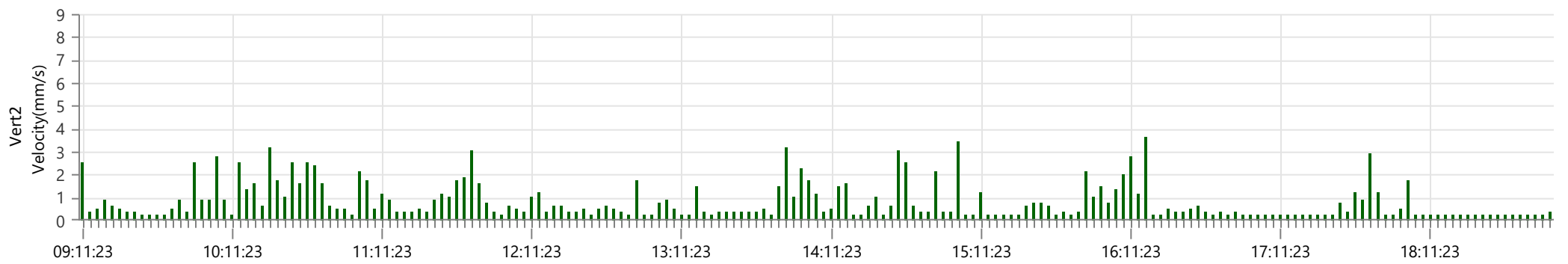
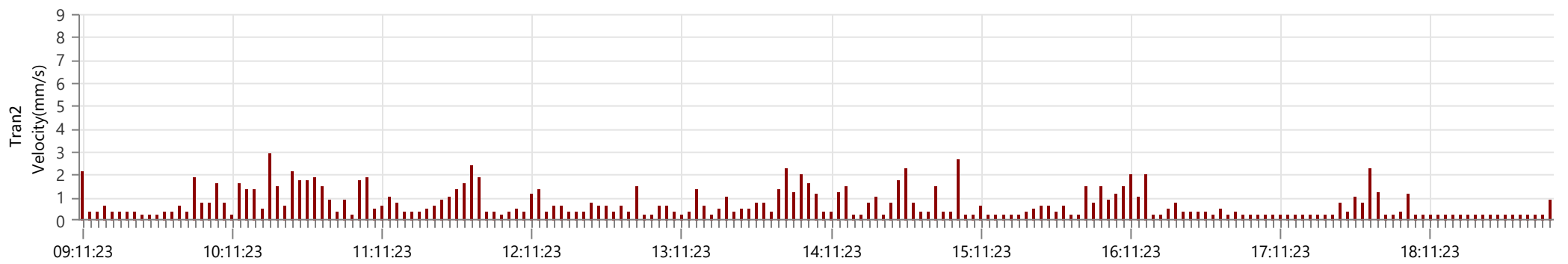
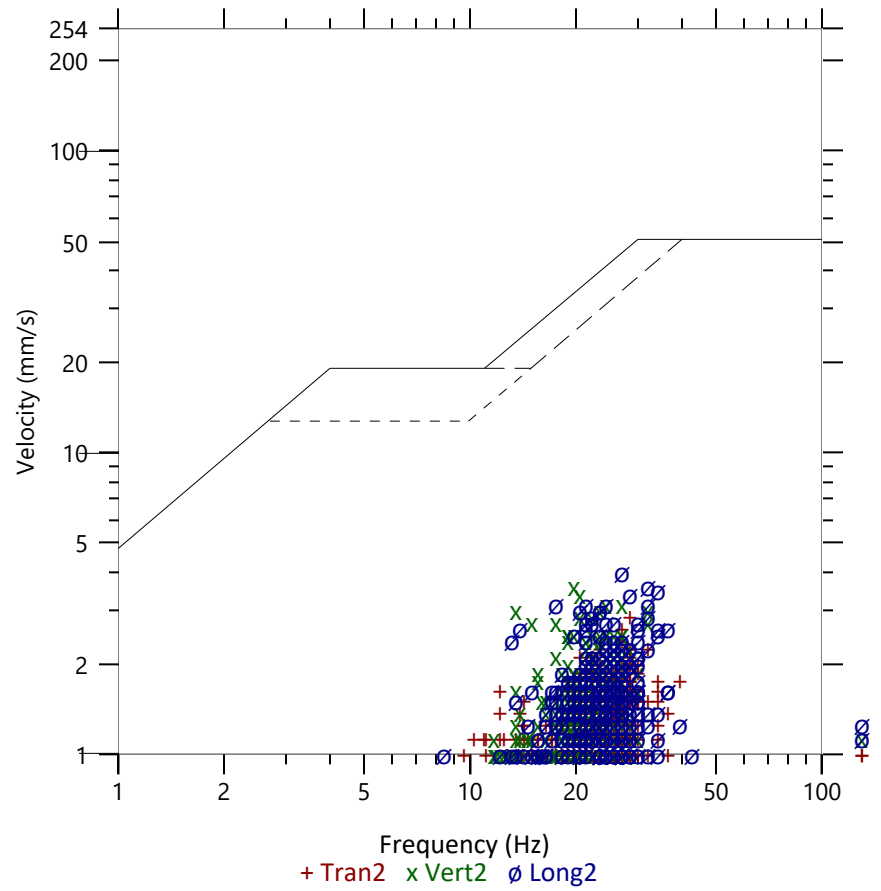
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.921 mm/s	3.683 mm/s	4.064 mm/s
Zero Crossing Frequency	28.4 Hz	19.7 Hz	26.9 Hz
Date	Oct 14, 2022	Oct 14, 2022	Oct 14, 2022
Time	10:27:03	16:17:38	15:03:48
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.5	3.7	3.7
Peak Vector Sum	4.879 mm/s at October 14, 2022 10:27:03		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 15, 2022 09:59:04
Finish October 15, 2022 19:03:47
Number of Intervals/Interval 6536.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221015095904.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

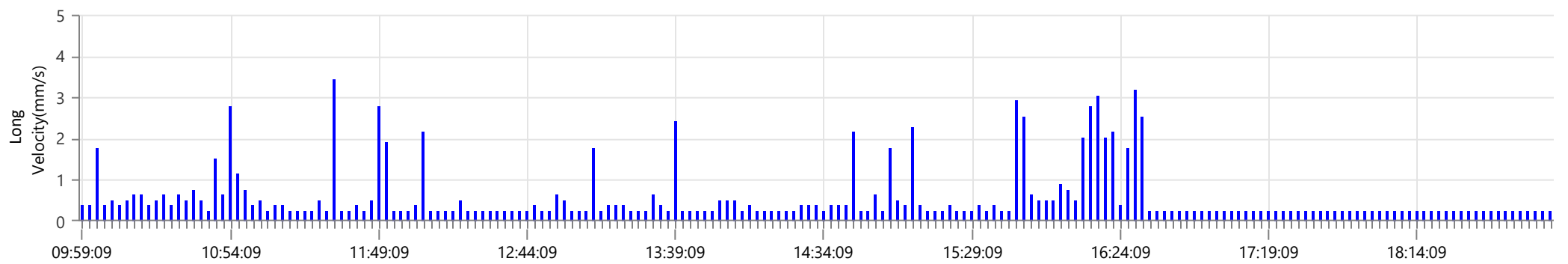
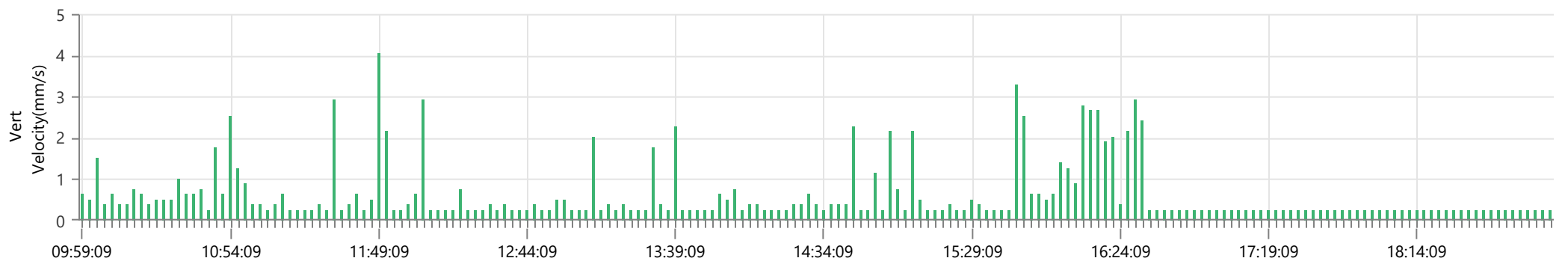
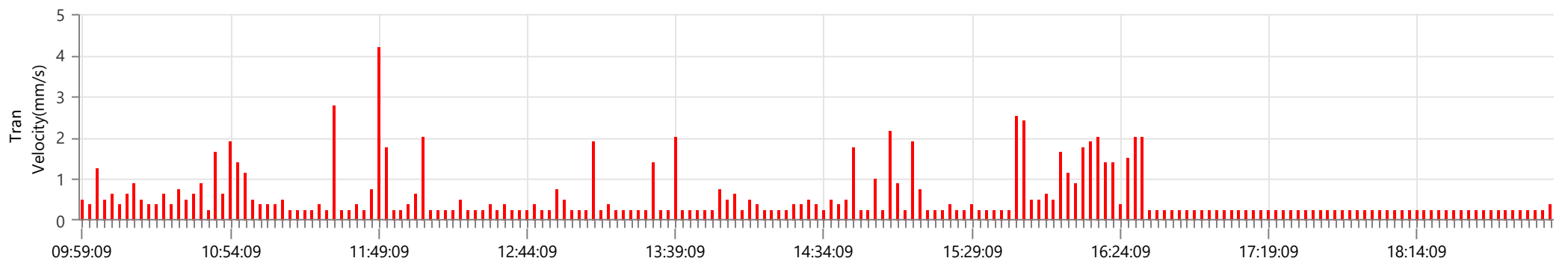
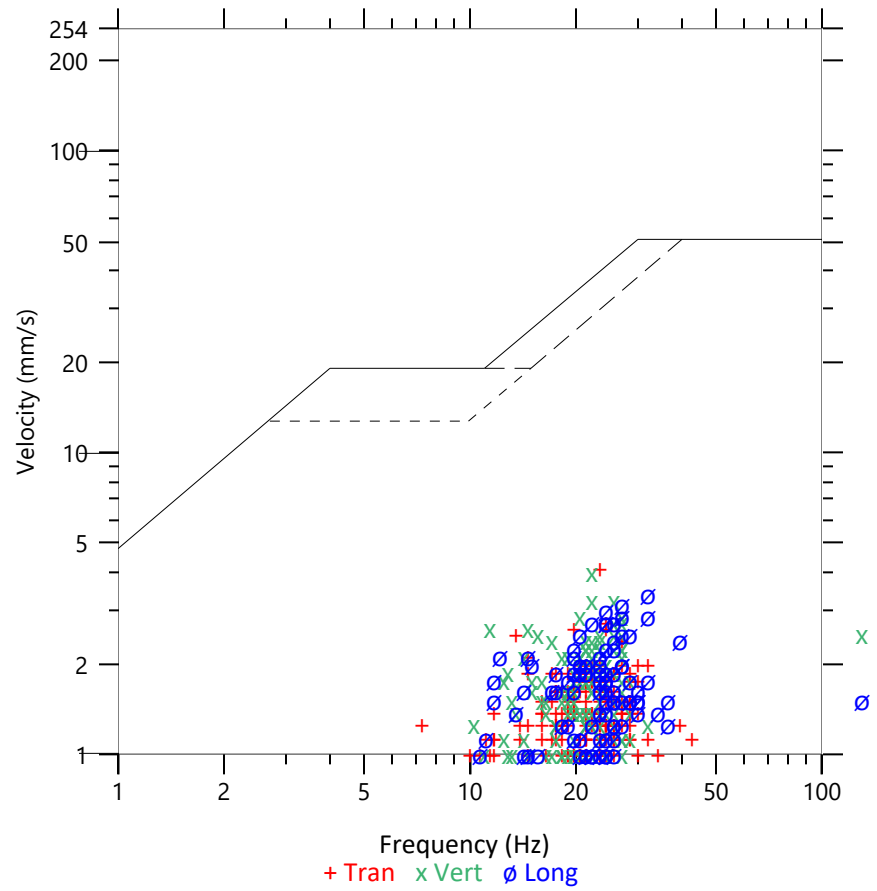
Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.191 mm/s	4.064 mm/s	3.429 mm/s
Zero Crossing Frequency	23.3 Hz	22.3 Hz	32.0 Hz
Date	Oct 15, 2022	Oct 15, 2022	Oct 15, 2022
Time	11:50:19	11:50:19	11:33:59
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.7	4.1	3.7

Peak Vector Sum 5.185 mm/s at October 15, 2022 11:50:19

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 15, 2022 09:59:04
Finish October 15, 2022 19:03:47
Number of Intervals/Interval 6536.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221015095904.IDFH

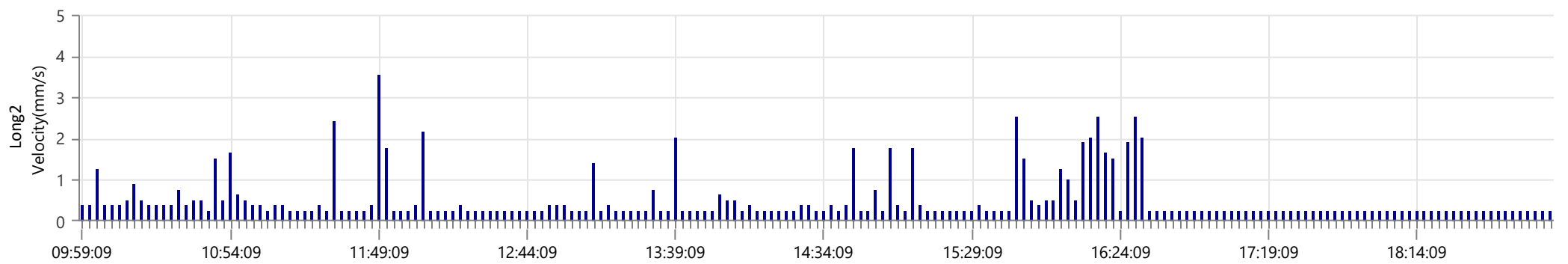
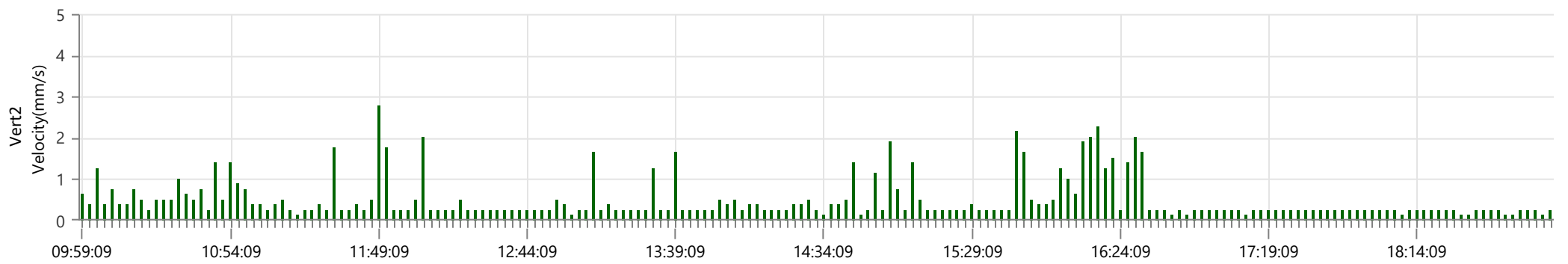
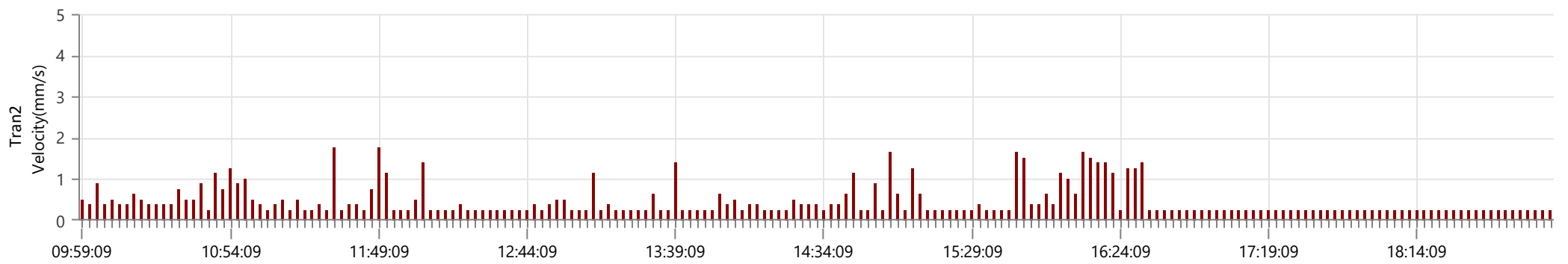
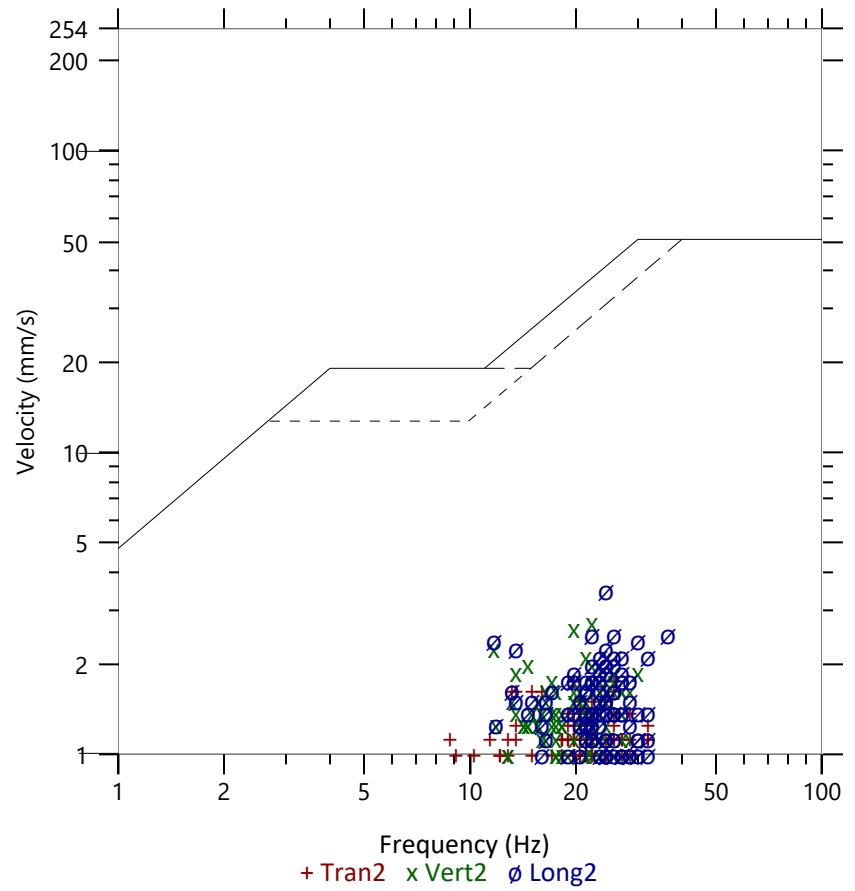
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.778 mm/s	2.794 mm/s	3.556 mm/s
Zero Crossing Frequency	25.6 Hz	22.3 Hz	24.4 Hz
Date	Oct 15, 2022	Oct 15, 2022	Oct 15, 2022
Time	11:34:04	11:50:19	11:50:19
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.4 Hz	7.5 Hz
Overswing Ratio	3.6	3.8	3.8
Peak Vector Sum	3.700 mm/s at October 15, 2022 11:50:19		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 17, 2022 09:56:47
Finish October 17, 2022 19:14:06
Number of Intervals/Interval 6687.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221017095647.IDFH

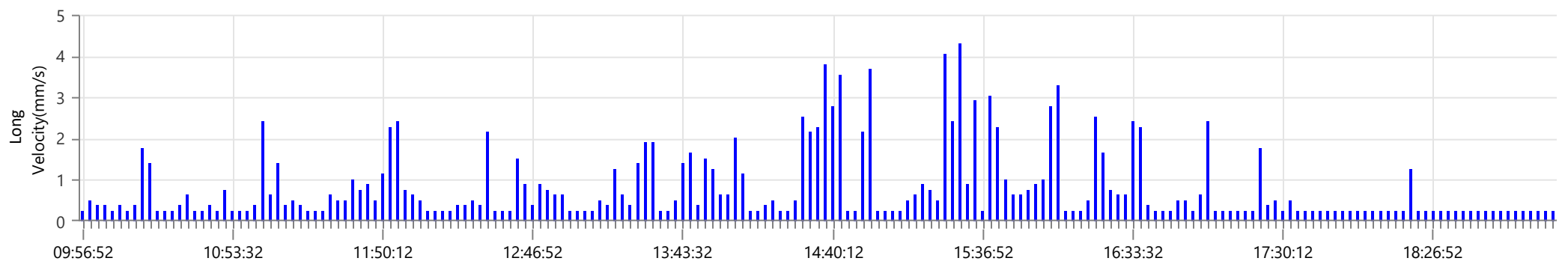
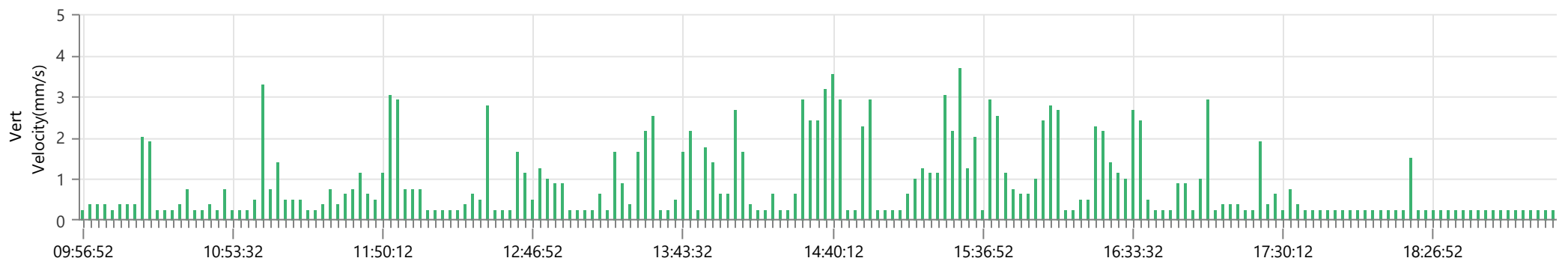
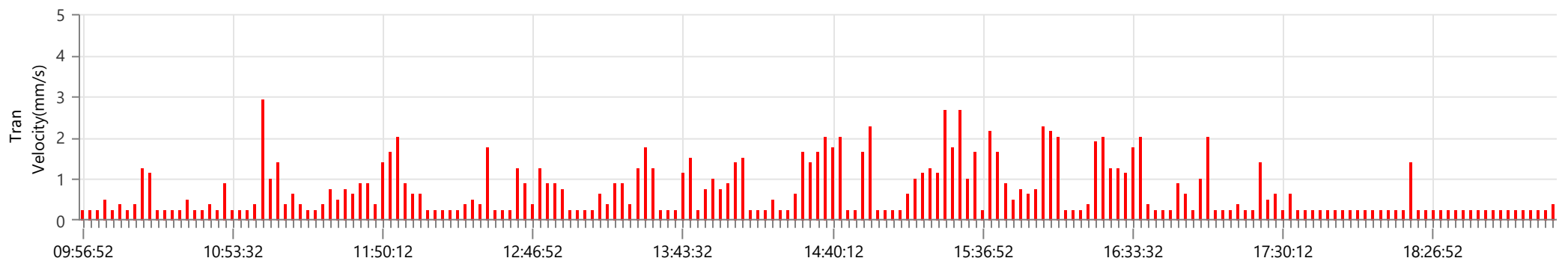
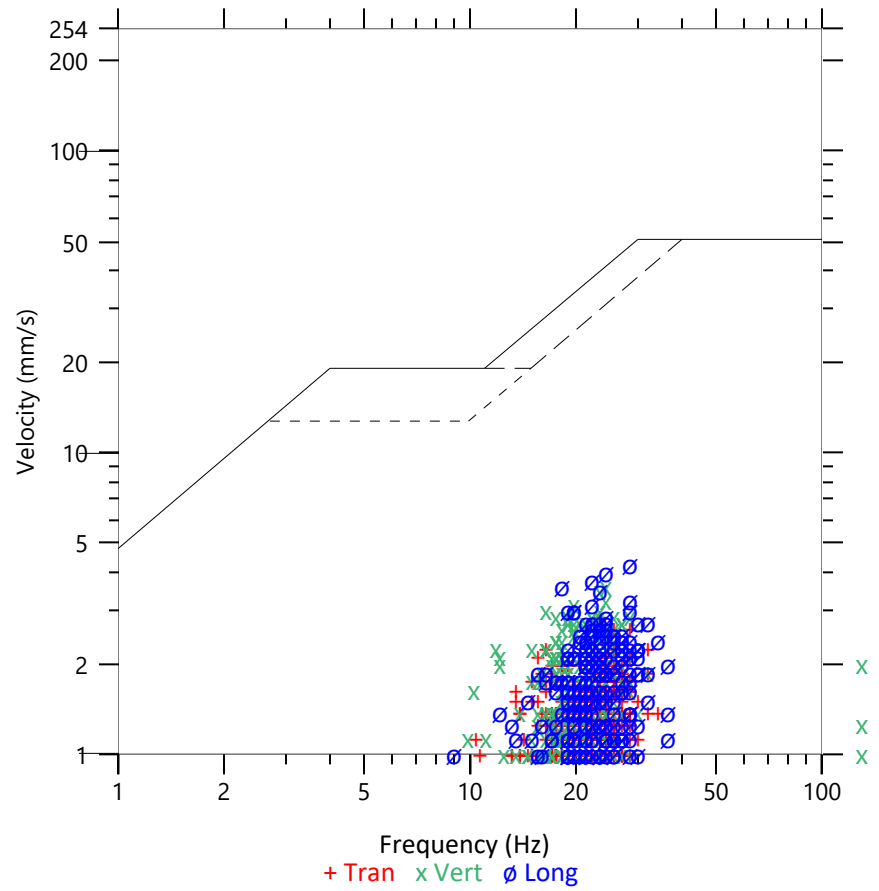
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.921 mm/s	3.683 mm/s	4.318 mm/s
Zero Crossing Frequency	23.3 Hz	24.4 Hz	28.4 Hz
Date	Oct 17, 2022	Oct 17, 2022	Oct 17, 2022
Time	11:06:57	15:29:47	15:29:47
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.8	4.1	3.7
Peak Vector Sum	4.512 mm/s at October 17, 2022 15:29:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 17, 2022 09:56:47
Finish October 17, 2022 19:14:06
Number of Intervals/Interval 6687.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221017095647.IDFH

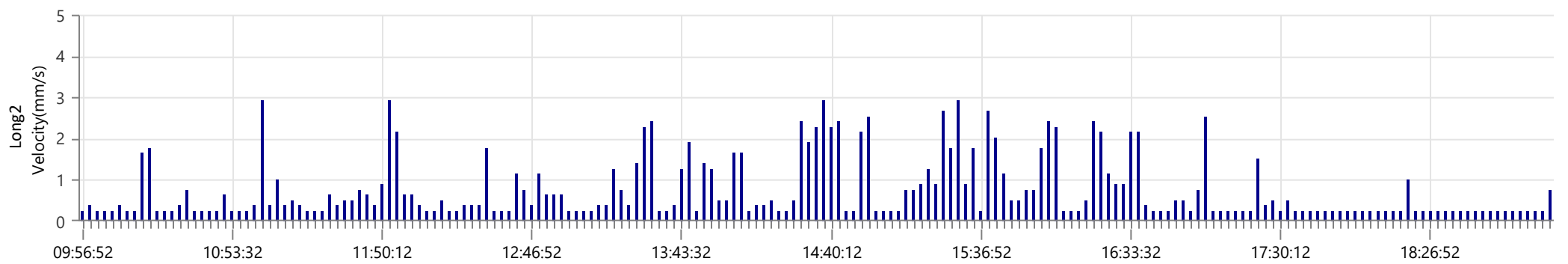
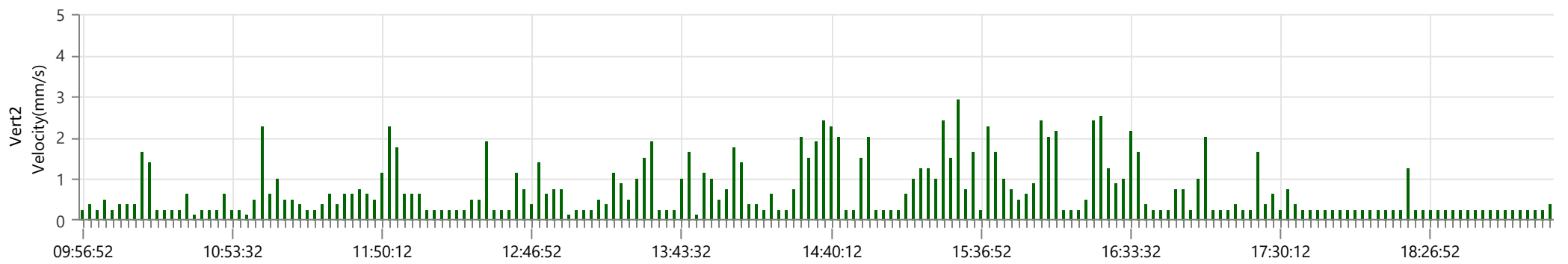
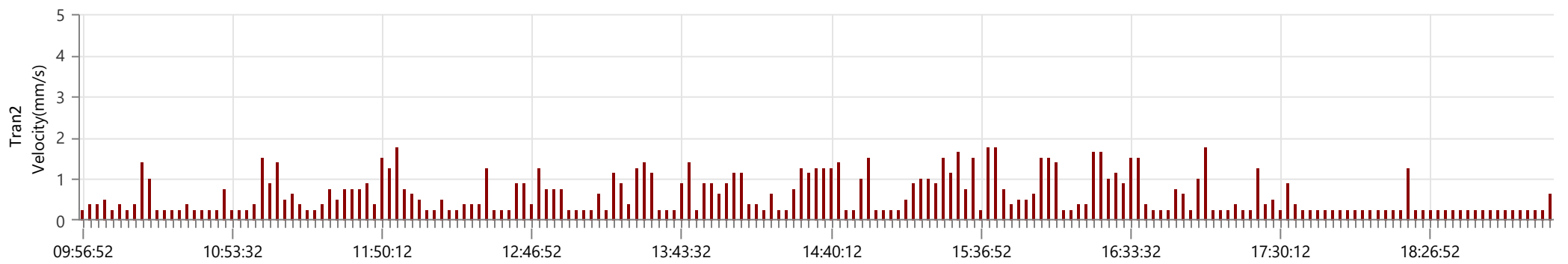
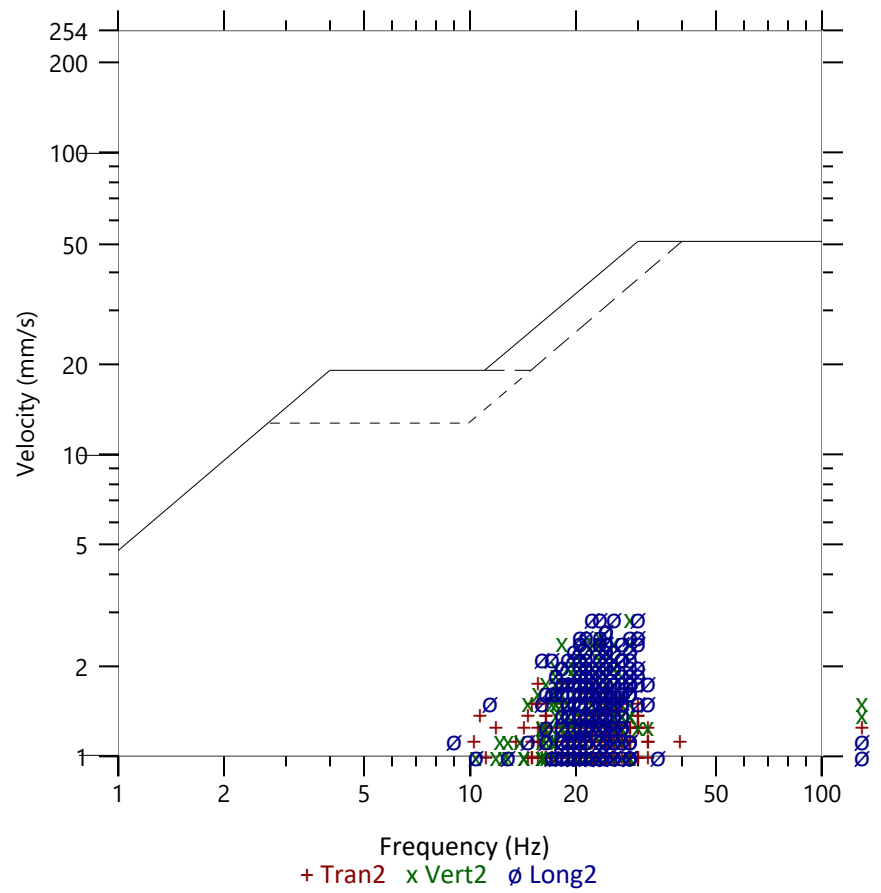
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.778 mm/s	2.921 mm/s	2.921 mm/s
Zero Crossing Frequency	18.3 Hz	28.4 Hz	25.6 Hz
Date	Oct 17, 2022	Oct 17, 2022	Oct 17, 2022
Time	11:56:17	15:29:47	11:06:57
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.7 Hz
Overswing Ratio	3.6	3.8	3.8
Peak Vector Sum	3.314 mm/s at October 17, 2022 15:29:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 18, 2022 09:43:59
Finish October 18, 2022 19:04:06
Number of Intervals/Interval 6721.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221018094359.IDFH

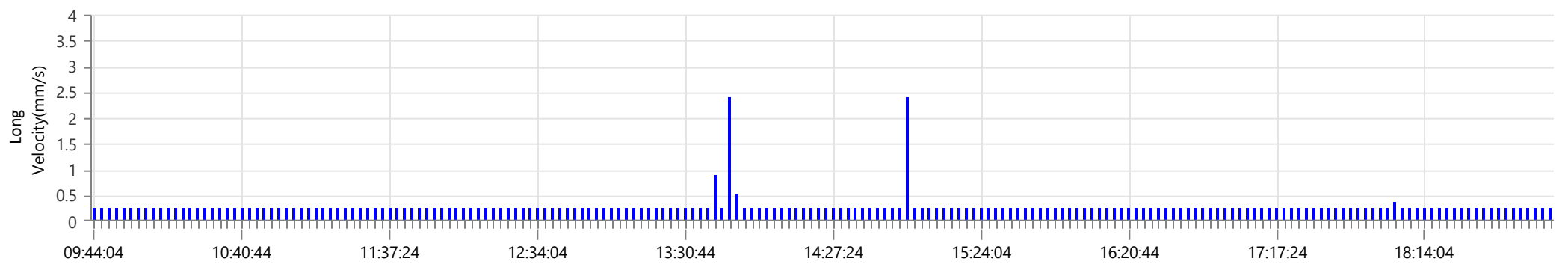
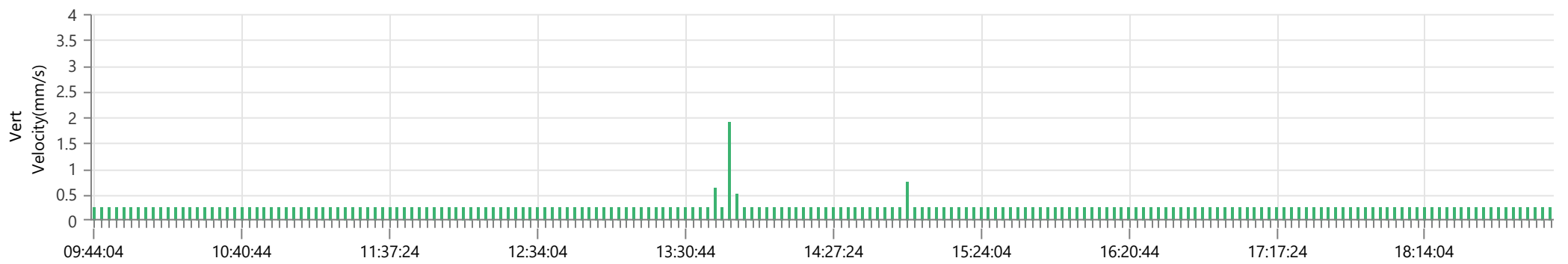
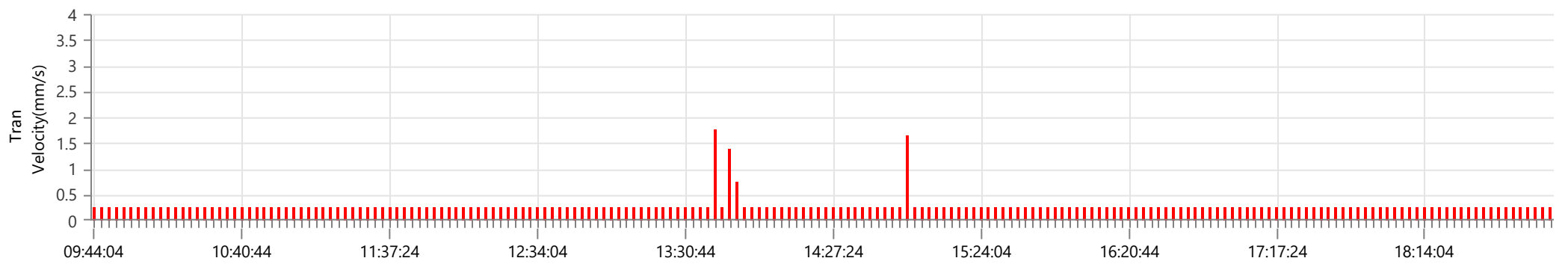
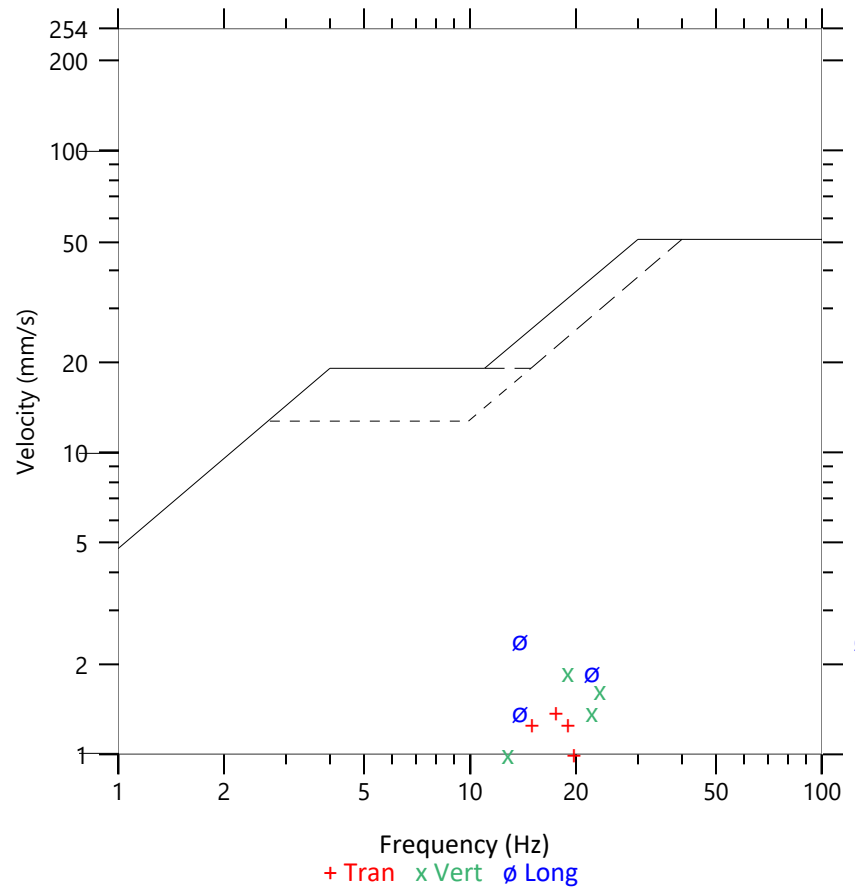
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.778 mm/s	1.905 mm/s	2.413 mm/s
Zero Crossing Frequency	>100 Hz	19.0 Hz	13.8 Hz
Date	Oct 18, 2022	Oct 18, 2022	Oct 18, 2022
Time	13:44:29	13:50:14	13:50:09
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.7	4.1	3.7
Peak Vector Sum	2.575 mm/s at October 18, 2022 13:50:09		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 18, 2022 09:43:59
Finish October 18, 2022 19:04:06
Number of Intervals/Interval 6721.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221018094359.IDFH

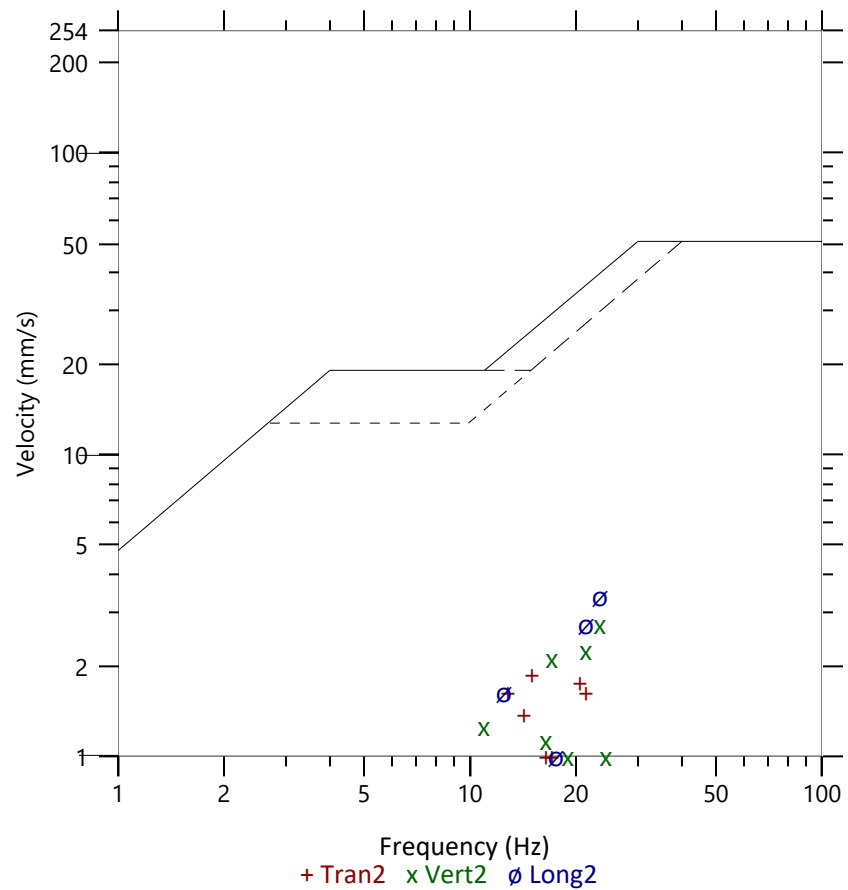
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	2.794 mm/s	3.429 mm/s
Zero Crossing Frequency	>100 Hz	23.3 Hz	23.3 Hz
Date	Oct 18, 2022	Oct 18, 2022	Oct 18, 2022
Time	10:25:29	13:50:09	13:50:09
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.4 Hz	7.5 Hz	8.3 Hz
Overswing Ratio	3.7	3.8	4.4
Peak Vector Sum	3.676 mm/s at October 18, 2022 13:50:09		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 19, 2022 13:08:09
Finish October 19, 2022 18:52:11
Number of Intervals/Interval 4128.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221019130809.IDFH

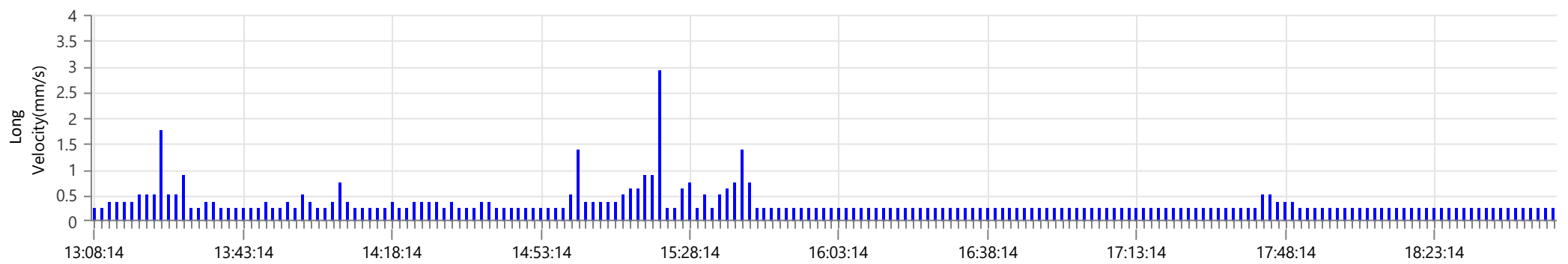
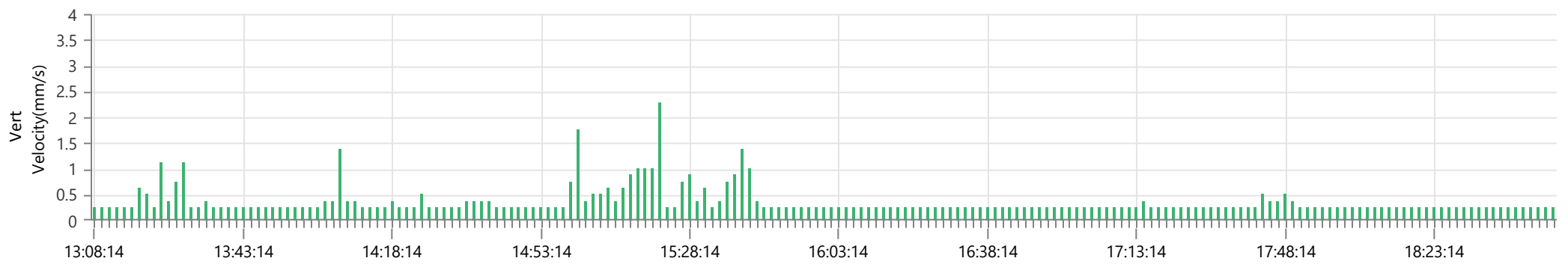
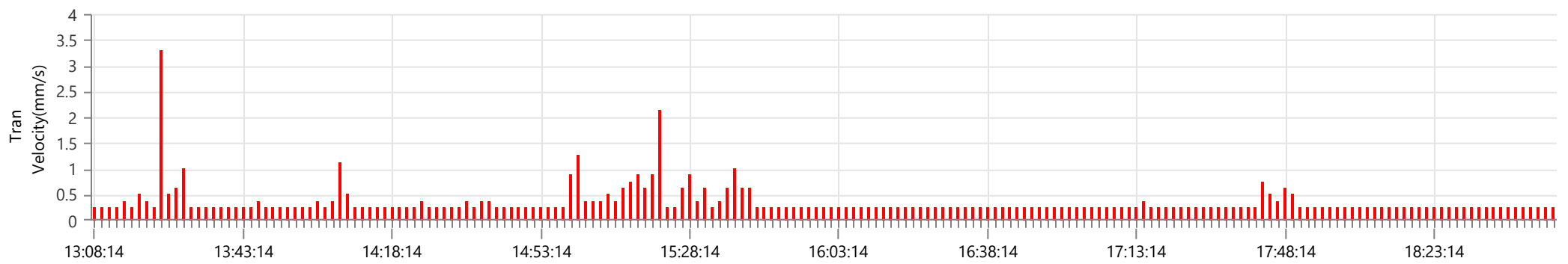
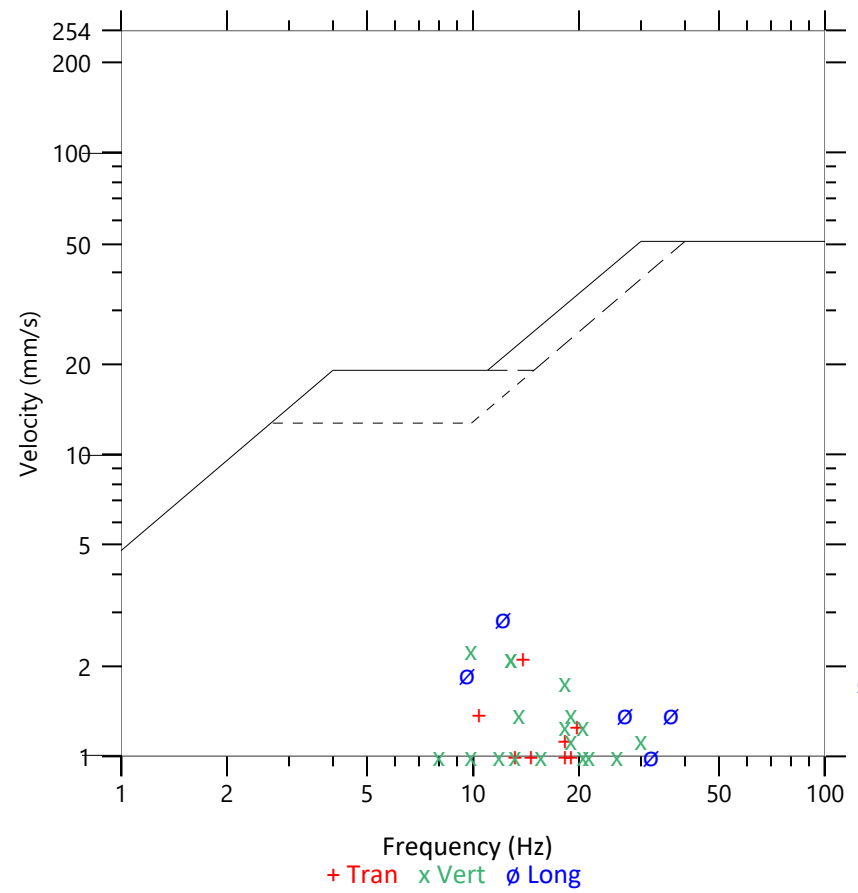
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.302 mm/s	2.286 mm/s	2.921 mm/s
Zero Crossing Frequency	>100 Hz	9.8 Hz	12.2 Hz
Date	Oct 19, 2022	Oct 19, 2022	Oct 19, 2022
Time	13:24:34	15:21:34	15:21:29
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.5 Hz
Overswing Ratio	3.7	3.8	3.7
Peak Vector Sum	3.391 mm/s at October 19, 2022 13:24:34		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 19, 2022 13:08:09
Finish October 19, 2022 18:52:11
Number of Intervals/Interval 4128.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221019130809.IDFH

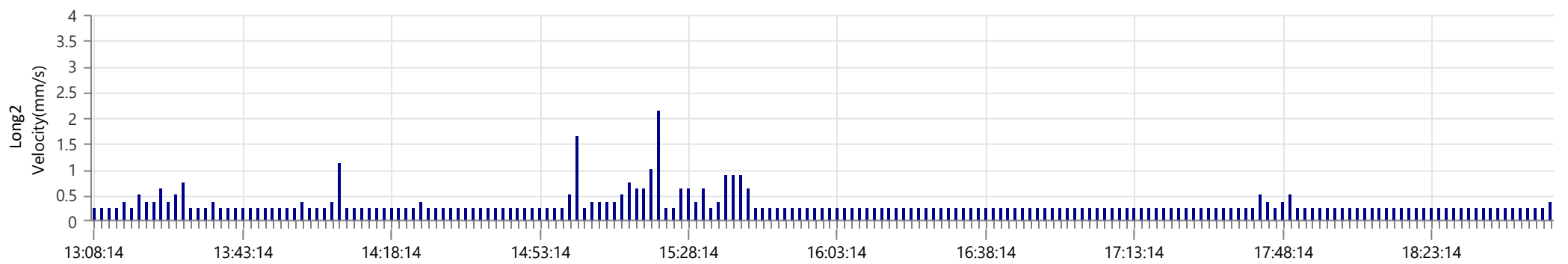
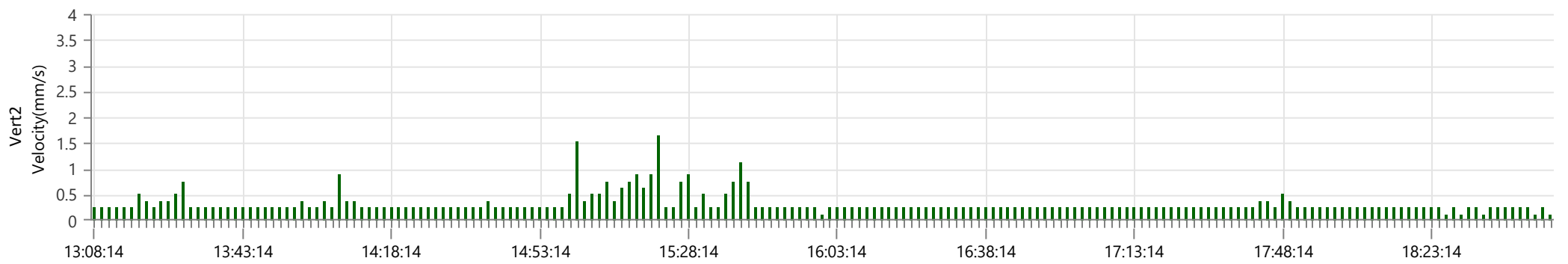
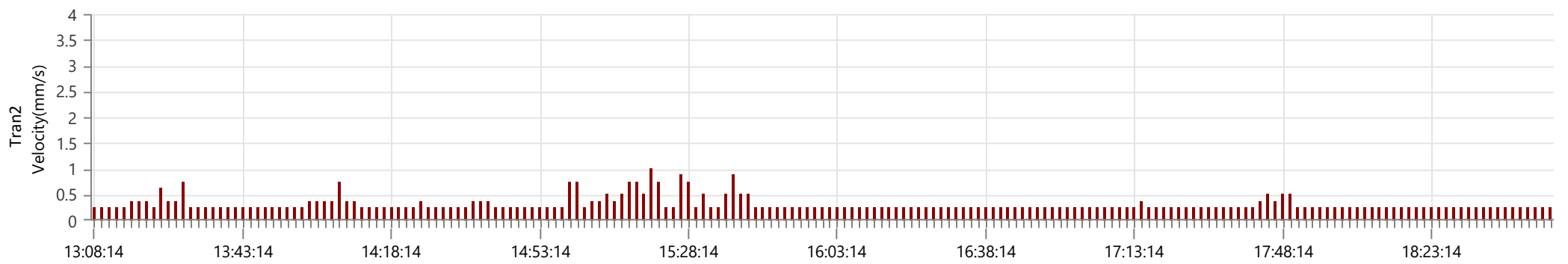
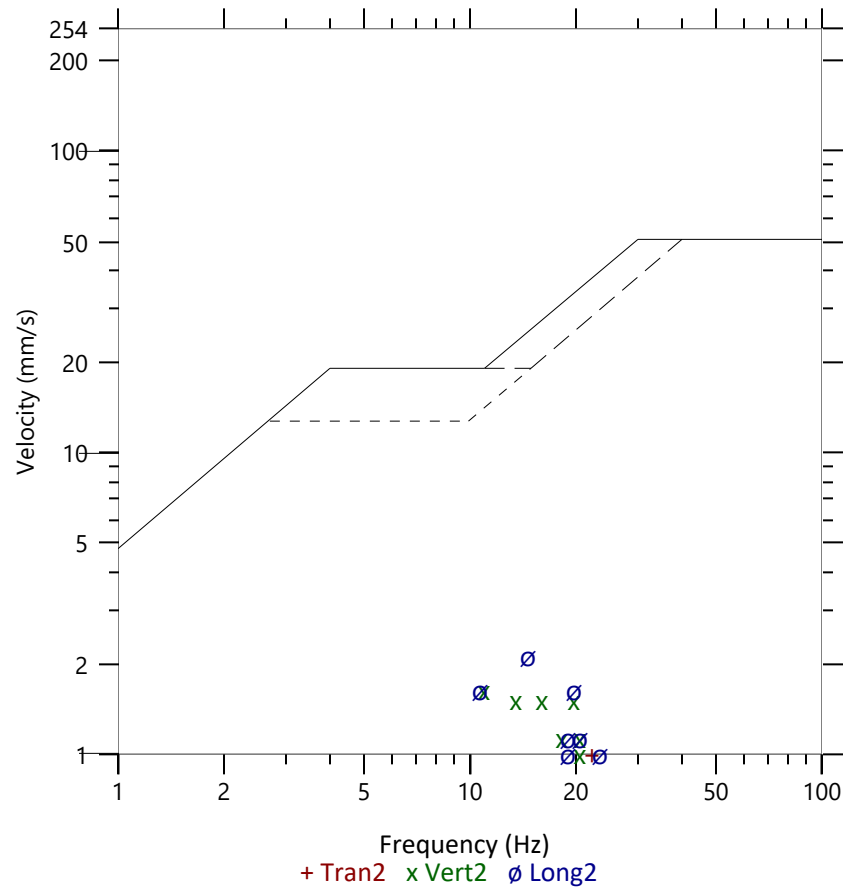
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.016 mm/s	1.651 mm/s	2.159 mm/s
Zero Crossing Frequency	22.3 Hz	10.9 Hz	14.6 Hz
Date	Oct 19, 2022	Oct 19, 2022	Oct 19, 2022
Time	15:19:39	15:21:34	15:21:29
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.8	4.1	3.8
Peak Vector Sum	2.279 mm/s at October 19, 2022 15:21:34		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 20, 2022 11:38:32
Finish October 20, 2022 19:06:47
Number of Intervals/Interval 5378.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221020113832.IDFH

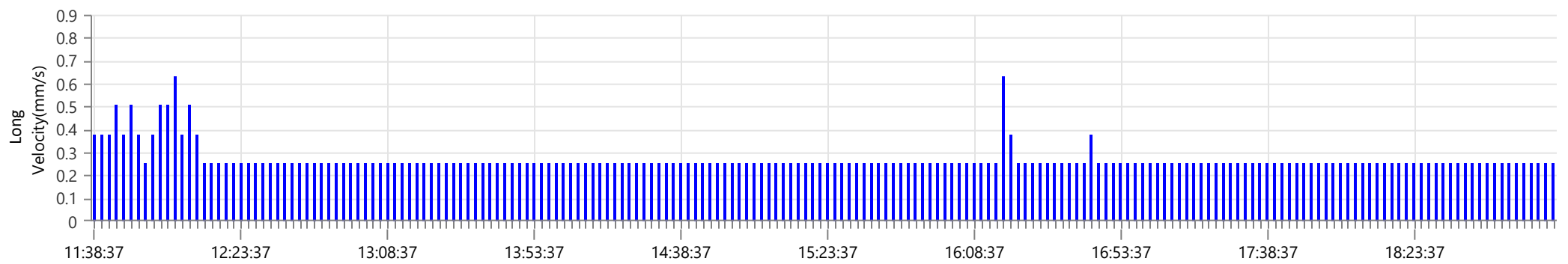
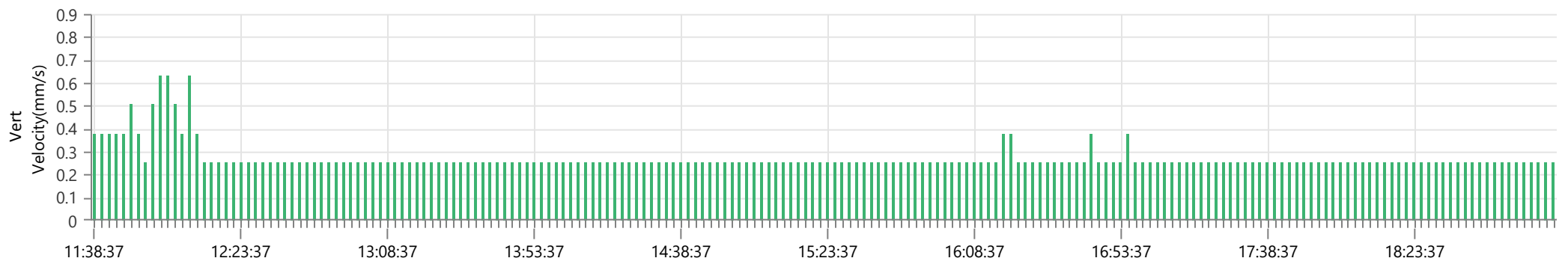
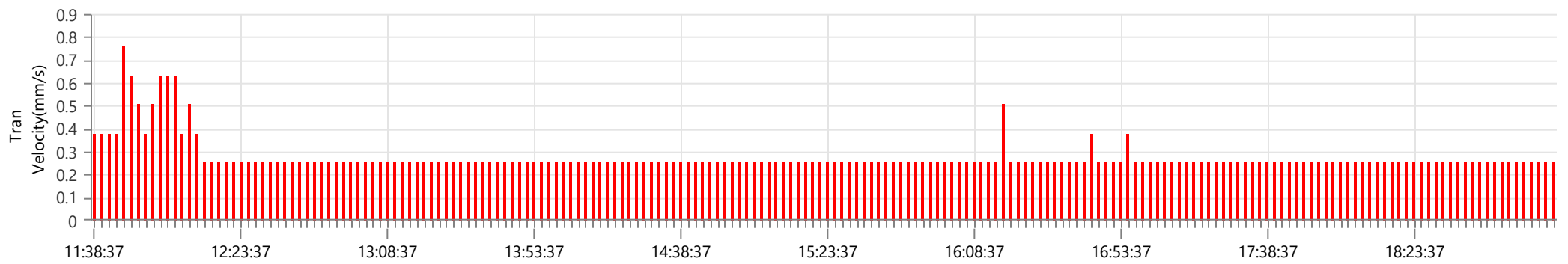
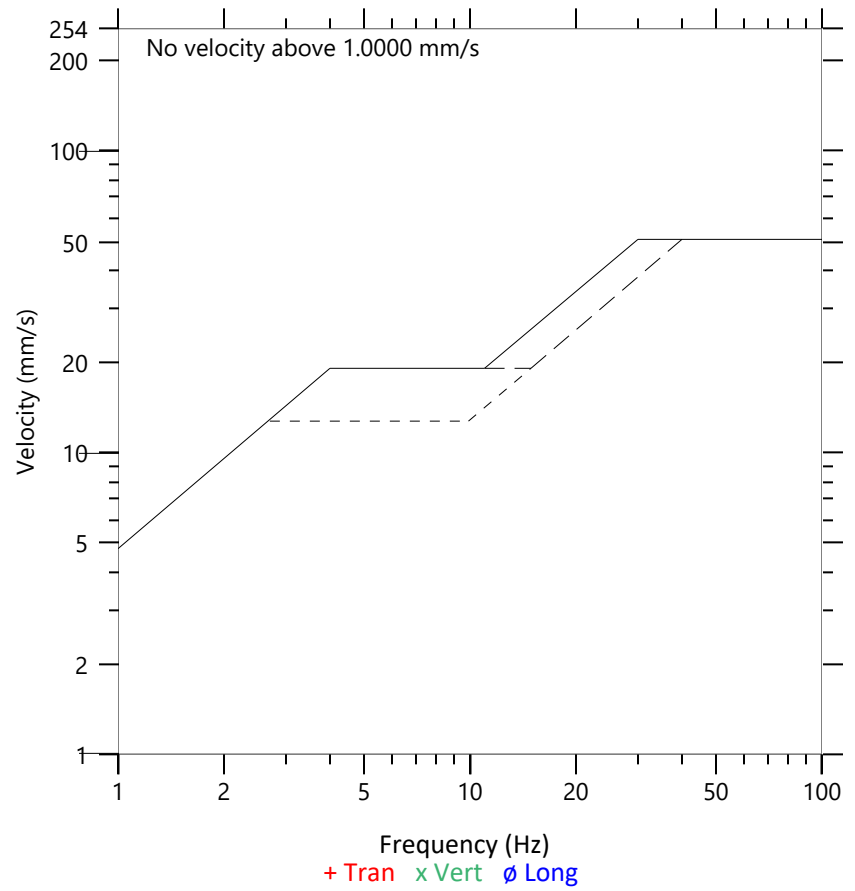
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.762 mm/s	0.635 mm/s	0.635 mm/s
Zero Crossing Frequency	>100 Hz	12.8 Hz	15.5 Hz
Date	Oct 20, 2022	Oct 20, 2022	Oct 20, 2022
Time	11:48:52	11:59:32	12:03:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.5 Hz
Overswing Ratio	3.7	3.8	3.8
Peak Vector Sum	0.852 mm/s at October 20, 2022 12:03:32		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 20, 2022 11:38:32
Finish October 20, 2022 19:06:47
Number of Intervals/Interval 5378.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

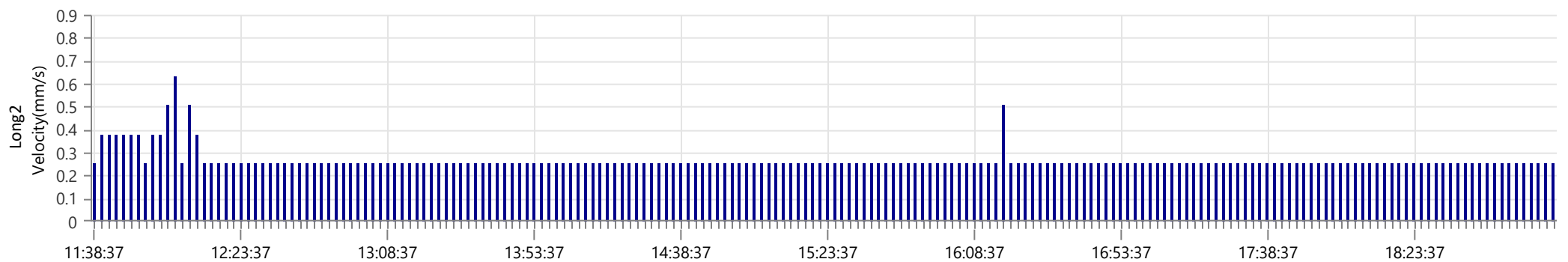
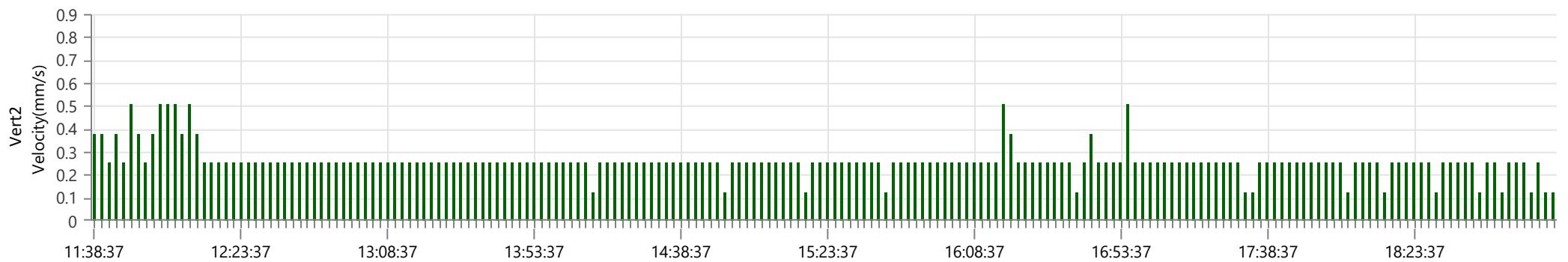
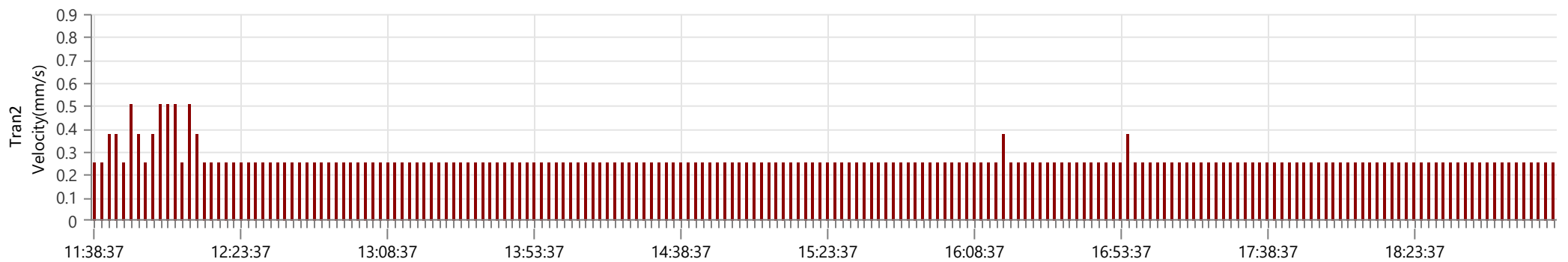
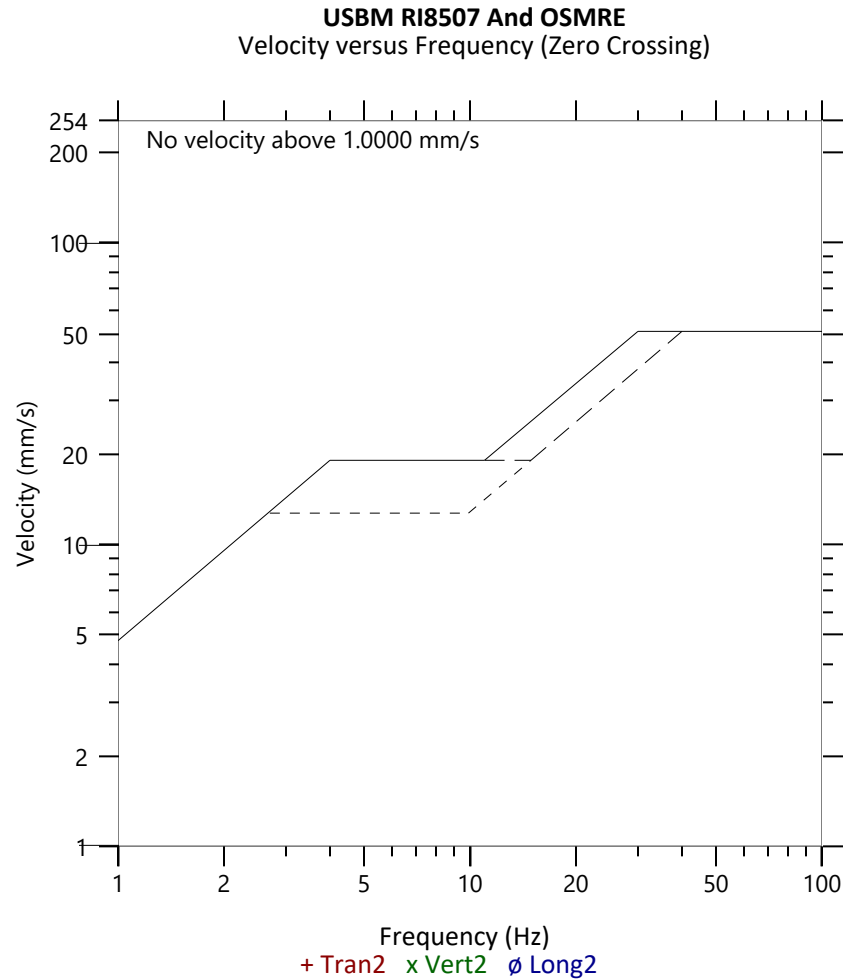
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221020113832.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.508 mm/s	0.508 mm/s	0.635 mm/s
Zero Crossing Frequency	8.4 Hz	11.6 Hz	13.8 Hz
Date	Oct 20, 2022	Oct 20, 2022	Oct 20, 2022
Time	11:50:52	11:50:52	12:03:32
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.8	4.1	3.8
Peak Vector Sum	0.751 mm/s at October 20, 2022 12:03:32		



Start October 24, 2022 11:46:58
Finish October 24, 2022 18:59:57
Number of Intervals/Interval 5195.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221024114658.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

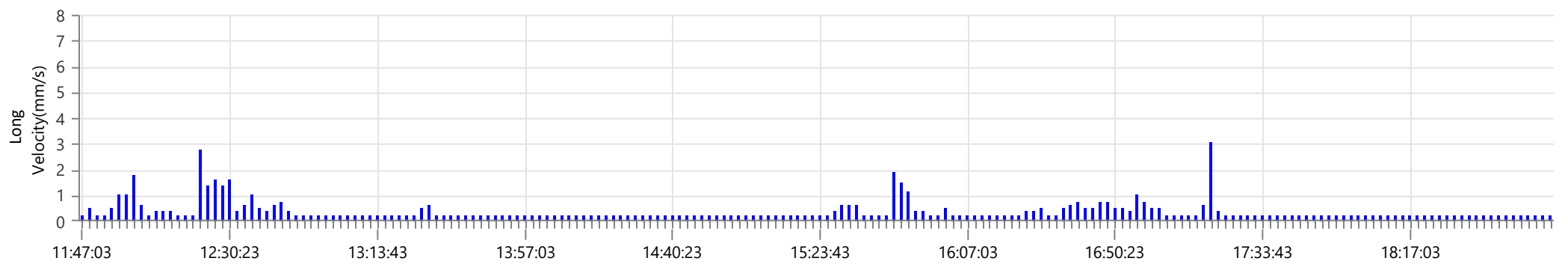
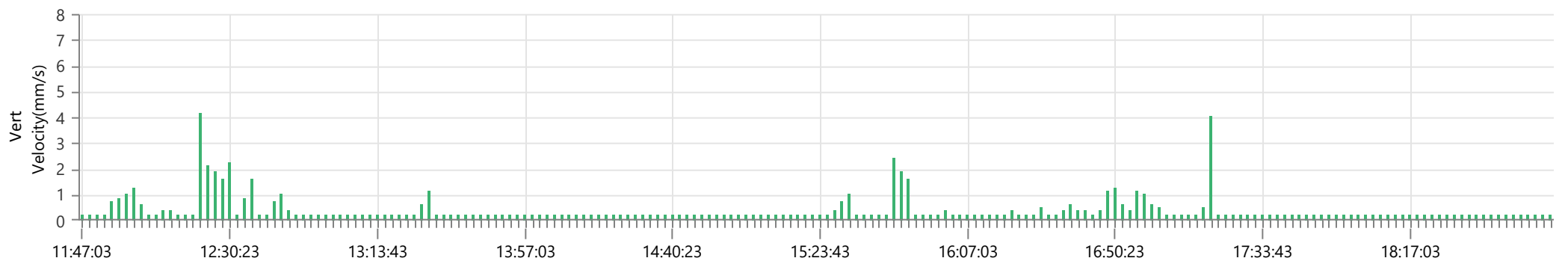
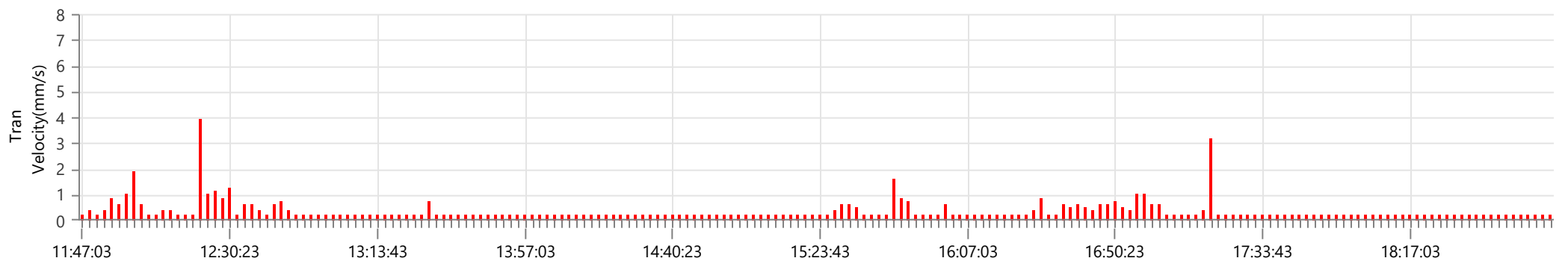
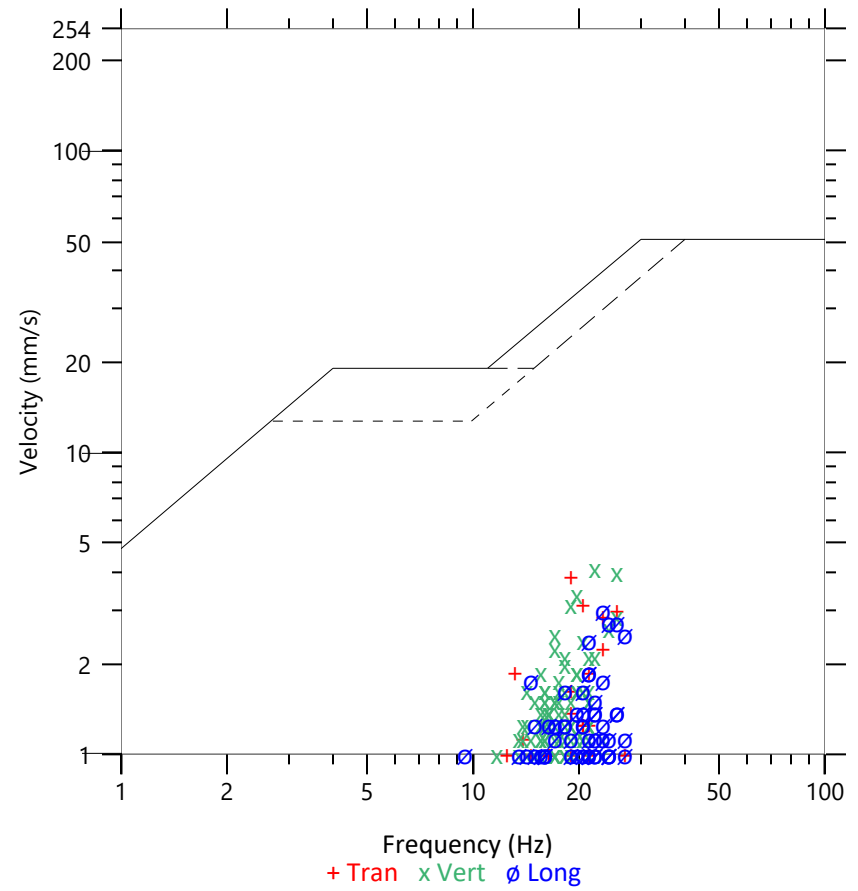
Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.937 mm/s	4.191 mm/s	3.048 mm/s
Zero Crossing Frequency	19.0 Hz	22.3 Hz	23.3 Hz
Date	Oct 24, 2022	Oct 24, 2022	Oct 24, 2022
Time	12:23:08	12:23:08	17:20:08
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	3.8	4.1	3.7

Peak Vector Sum 4.742 mm/s at October 24, 2022 12:23:08

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 24, 2022 11:46:58
Finish October 24, 2022 18:59:57
Number of Intervals/Interval 5195.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221024114658.IDFH

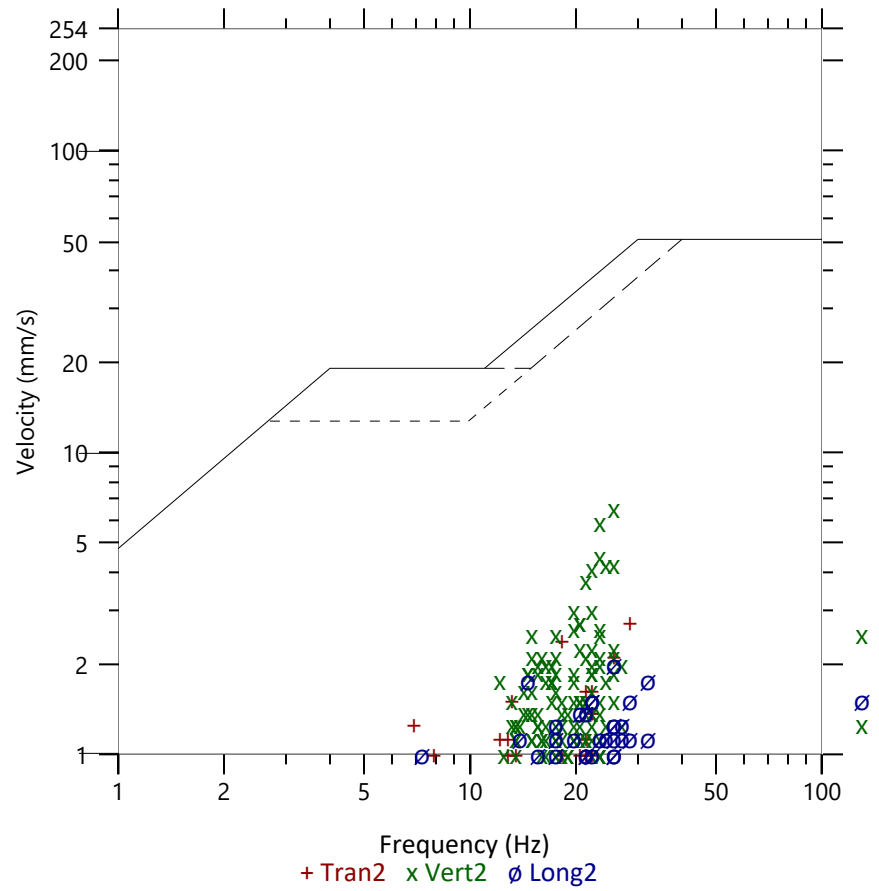
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.794 mm/s	6.604 mm/s	2.032 mm/s
Zero Crossing Frequency	28.4 Hz	25.6 Hz	25.6 Hz
Date	Oct 24, 2022	Oct 24, 2022	Oct 24, 2022
Time	12:23:08	17:20:08	17:19:58
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.7 Hz
Overswing Ratio	3.8	3.9	3.7
Peak Vector Sum	6.693 mm/s at October 24, 2022 17:20:08		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 29, 2022 10:06:14
Finish October 29, 2022 19:18:56
Number of Intervals/Interval 6632.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221029100614.IDFH

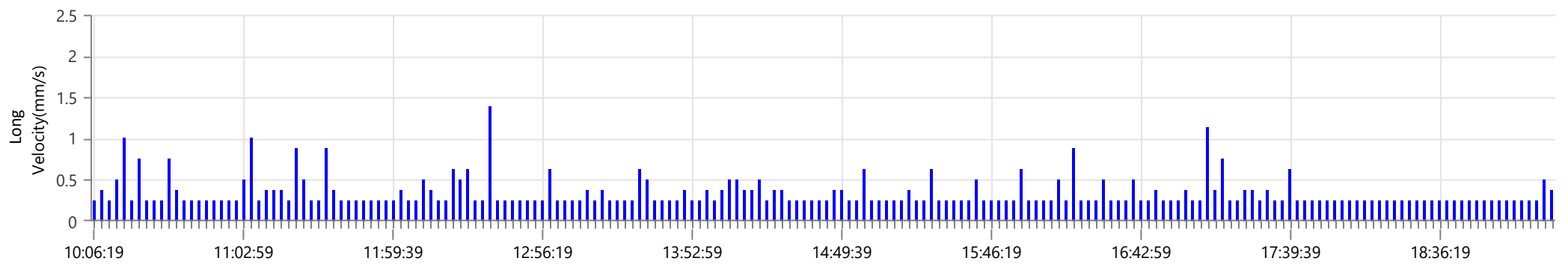
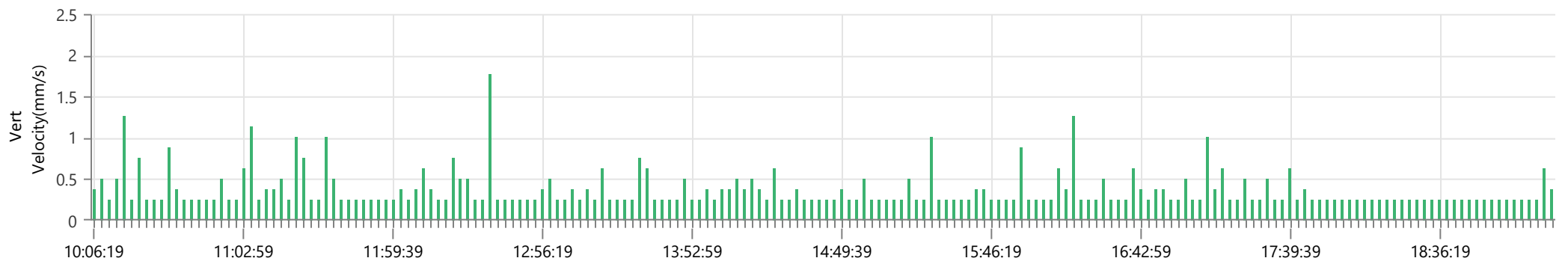
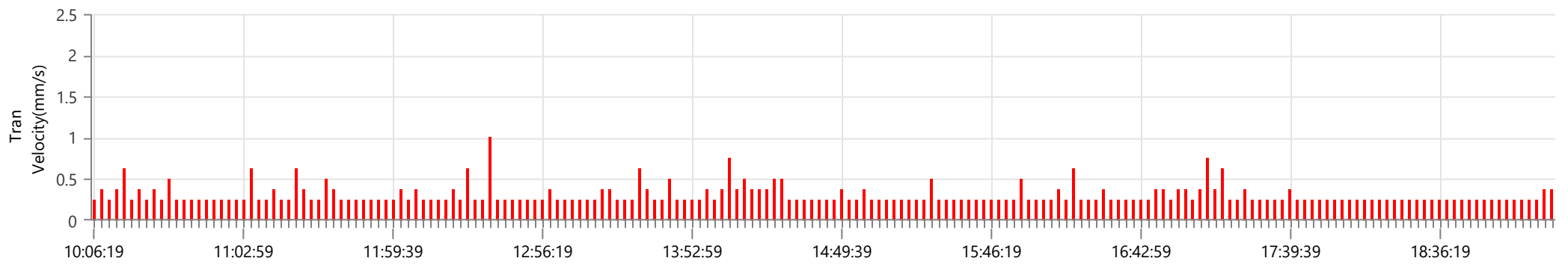
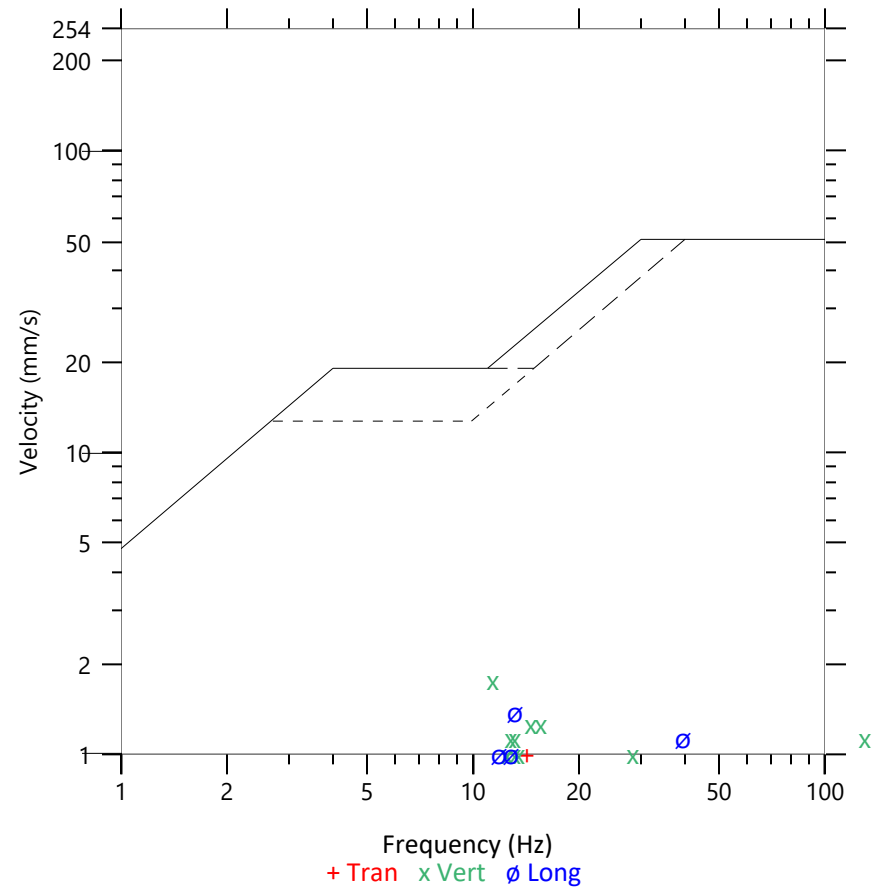
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.016 mm/s	1.778 mm/s	1.397 mm/s
Zero Crossing Frequency	14.2 Hz	11.4 Hz	13.1 Hz
Date	Oct 29, 2022	Oct 29, 2022	Oct 29, 2022
Time	12:38:09	12:38:09	12:38:09
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.9 Hz
Overswing Ratio	3.6	3.8	3.6
Peak Vector Sum	2.207 mm/s at October 29, 2022 12:38:09		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 29, 2022 10:06:14
Finish October 29, 2022 19:18:56
Number of Intervals/Interval 6632.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221029100614.IDFH

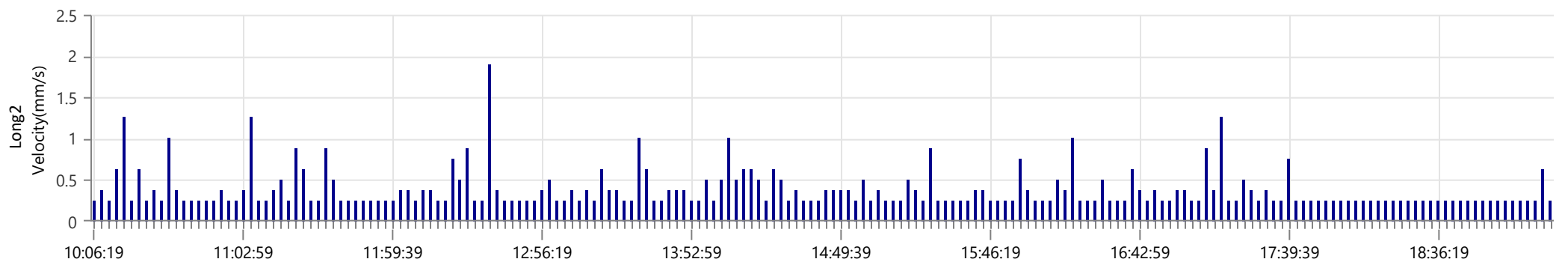
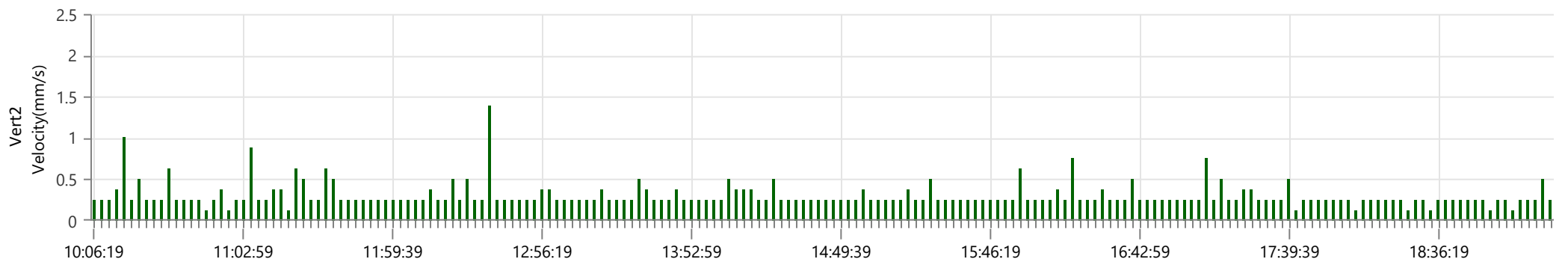
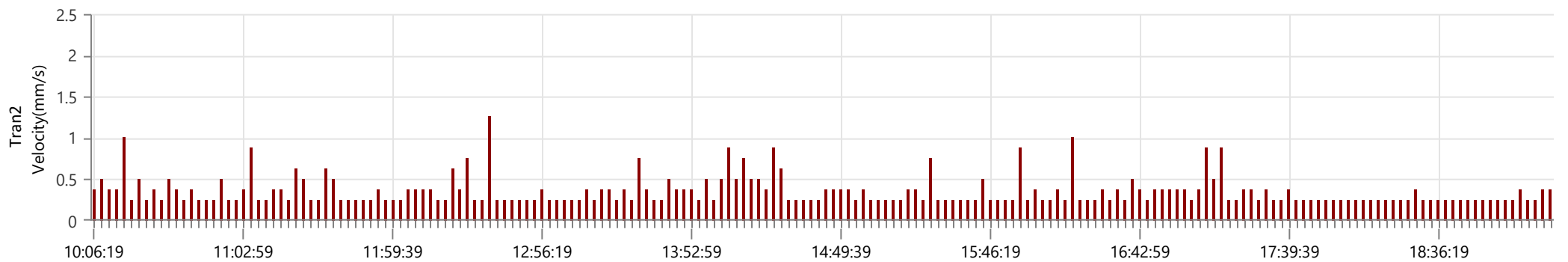
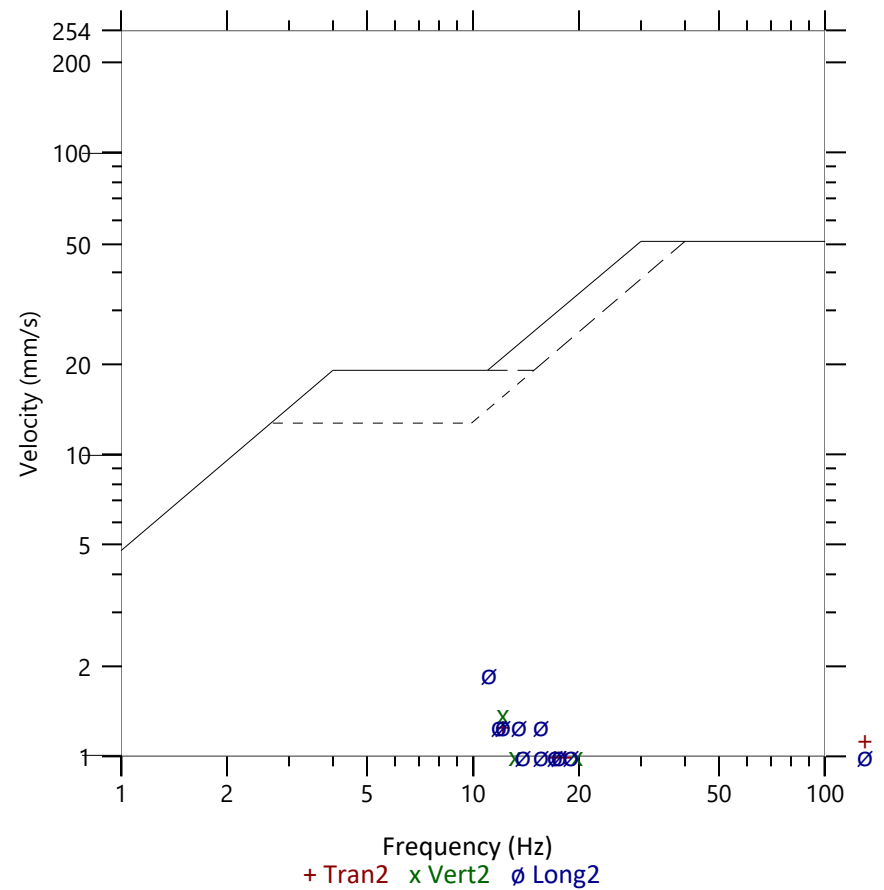
Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	1.397 mm/s	1.905 mm/s
Zero Crossing Frequency	12.2 Hz	12.2 Hz	11.1 Hz
Date	Oct 29, 2022	Oct 29, 2022	Oct 29, 2022
Time	12:38:14	12:38:09	12:38:09
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	3.9	4.2	3.8
Peak Vector Sum	2.110 mm/s at October 29, 2022 12:38:09		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 31, 2022 09:43:10
Finish October 31, 2022 19:06:13
Number of Intervals/Interval 6756.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221031094310.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

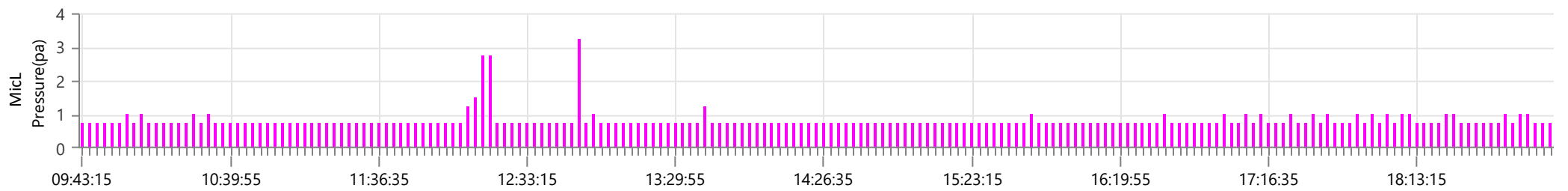
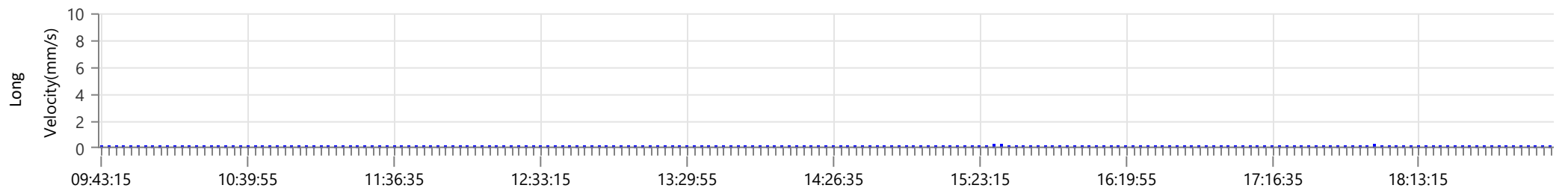
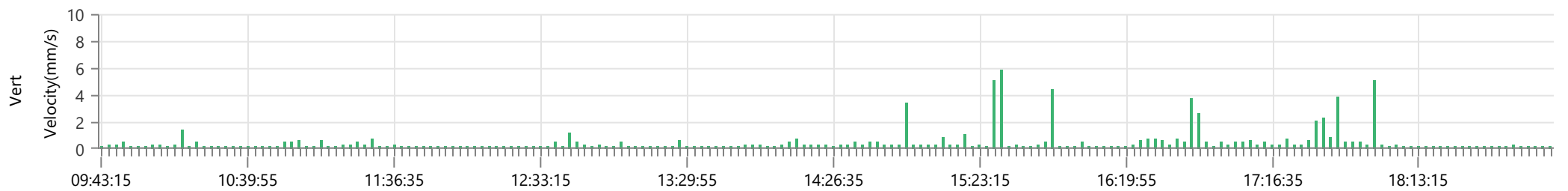
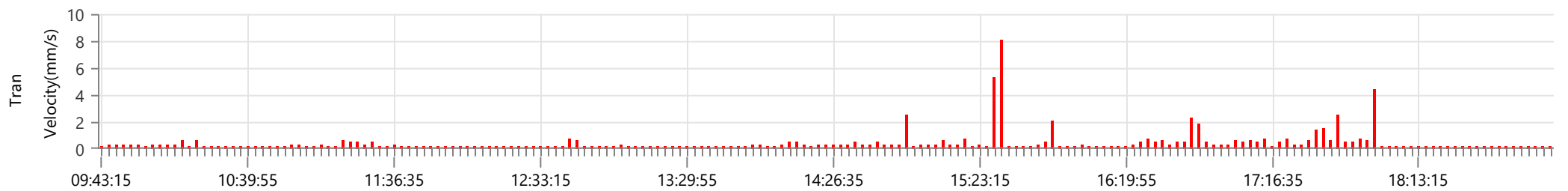
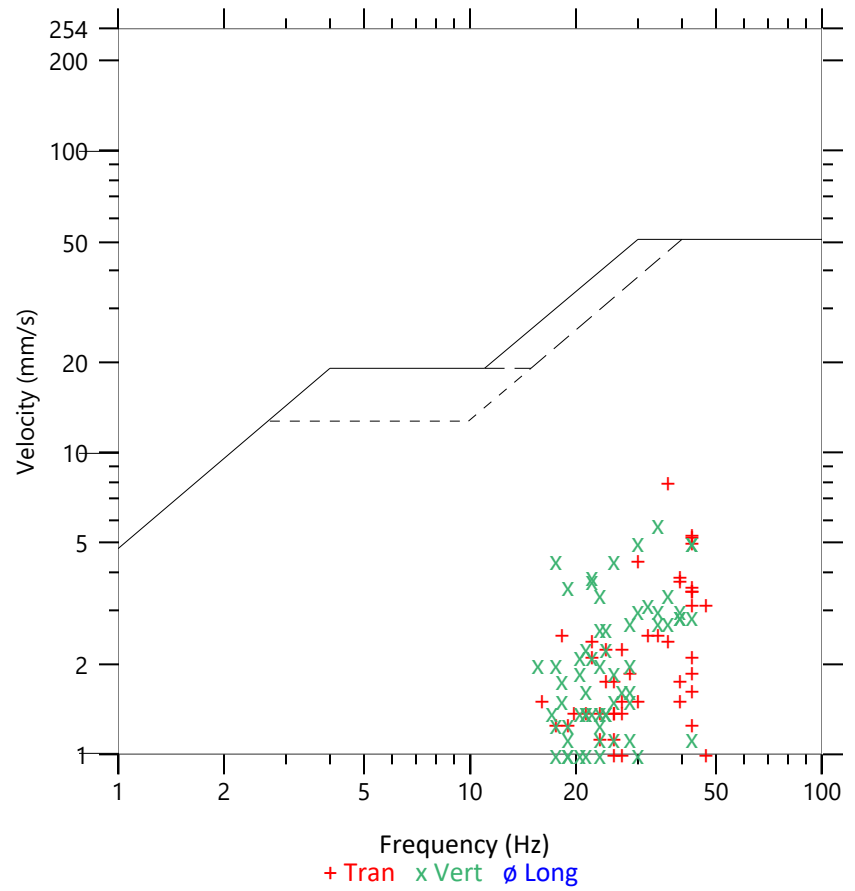
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	8.128 mm/s	5.842 mm/s	0.381 mm/s
Zero Crossing Frequency	36.6 Hz	34.1 Hz	>100 Hz
Date	Oct 31, 2022	Oct 31, 2022	Oct 31, 2022
Time	15:32:40	15:32:40	15:31:25
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.4 Hz	7.5 Hz	8.3 Hz
Overswing Ratio	3.8	4.1	4.3

Peak Vector Sum 8.694 mm/s at October 31, 2022 15:32:40

ISEE Linear Microphone
 Peak Sound Pressure Level 3.25 pa
 Date Oct 31, 2022
 Time 12:55:50
 Zero Crossing Frequency 85.3 Hz
 Sensor Check ✗ Check
 Frequency 0.0 Hz
 Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 31, 2022 09:43:10
Finish October 31, 2022 19:06:13
Number of Intervals/Interval 6756.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221031094310.IDFH

Notes
Job: RD7947
Client:
User Name:
General:

Extended Notes No text to be displayed.

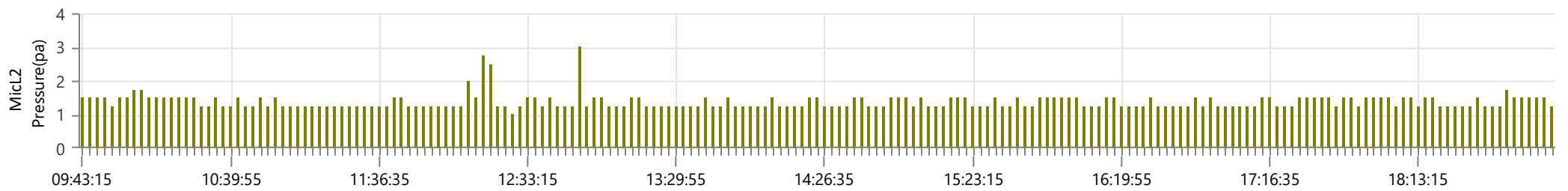
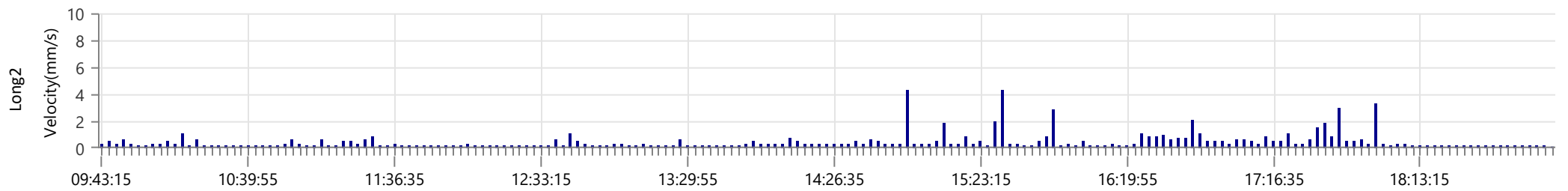
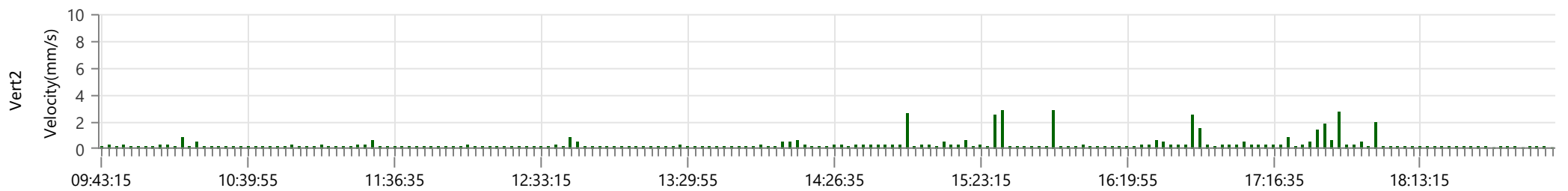
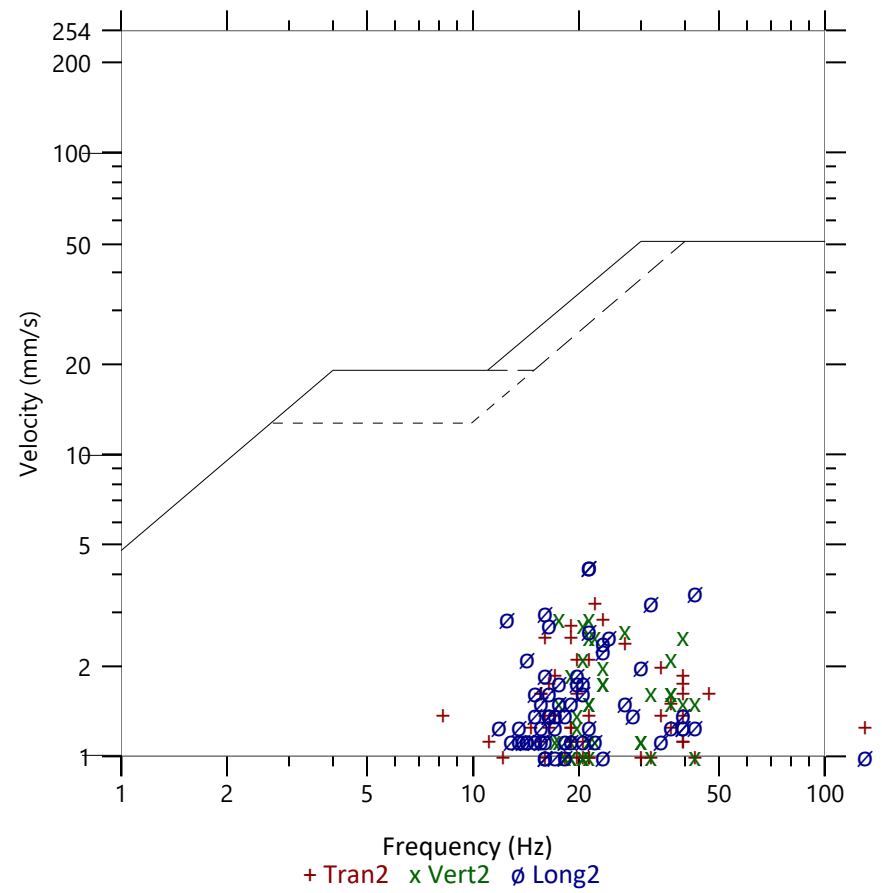
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.302 mm/s	2.921 mm/s	4.318 mm/s
Zero Crossing Frequency	22.3 Hz	21.3 Hz	21.3 Hz
Date	Oct 31, 2022	Oct 31, 2022	Oct 31, 2022
Time	14:57:15	15:32:30	14:57:20
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.7	3.9	3.8

Peak Vector Sum 4.501 mm/s at October 31, 2022 15:32:40

ISEE Linear Microphone
Peak Sound Pressure Level 3.00 pa
Date Oct 31, 2022
Time 12:55:50
Zero Crossing Frequency >100 Hz
Sensor Check ✗ Check
Frequency 0.0 Hz
Test Amplitude 0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 16, 2022 07:21:05
Finish November 16, 2022 18:31:39
Number of Intervals/Interval 8046.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

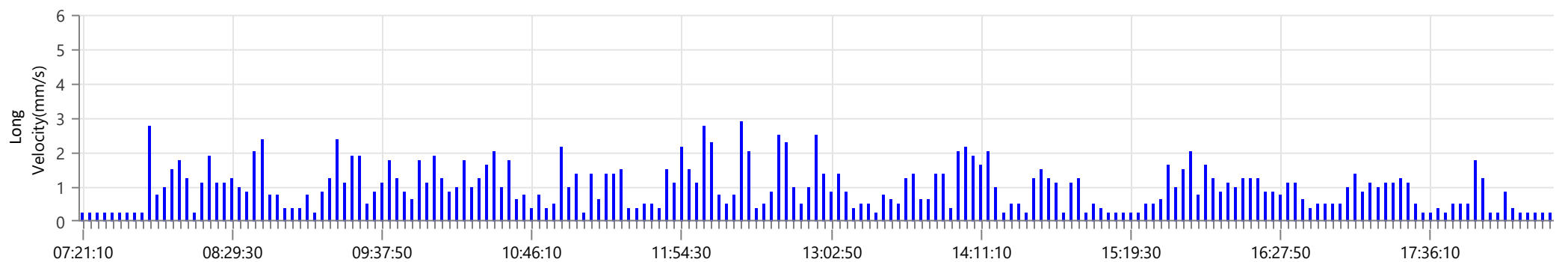
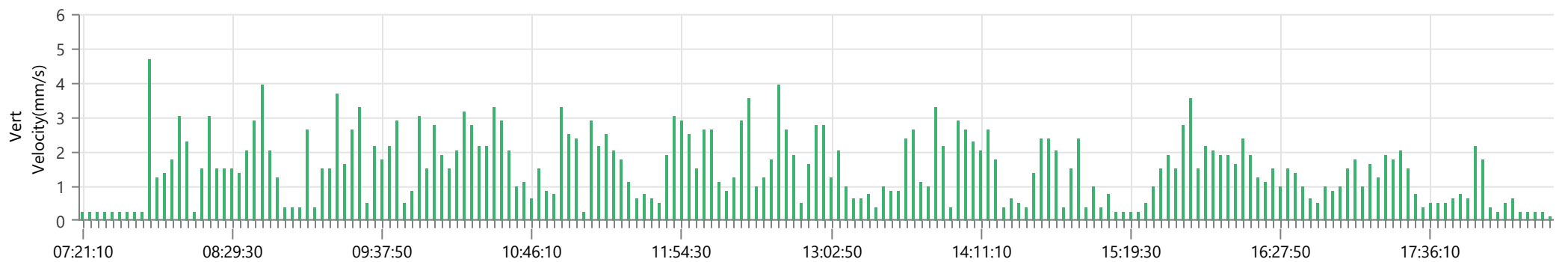
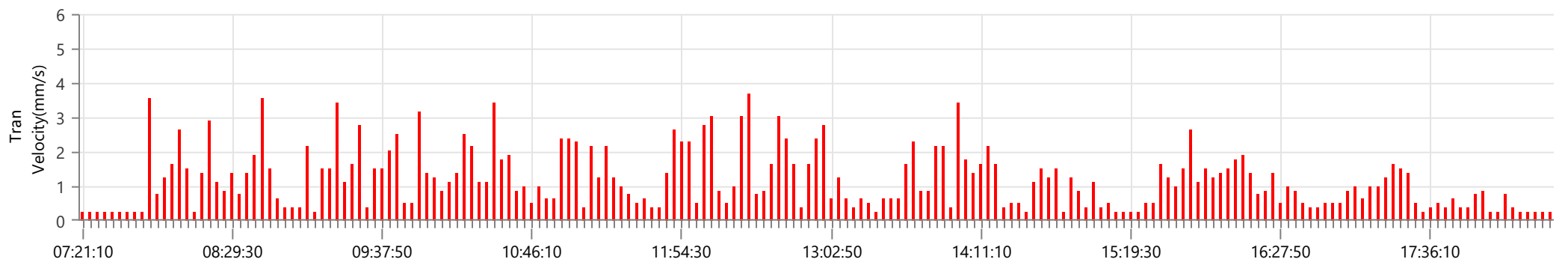
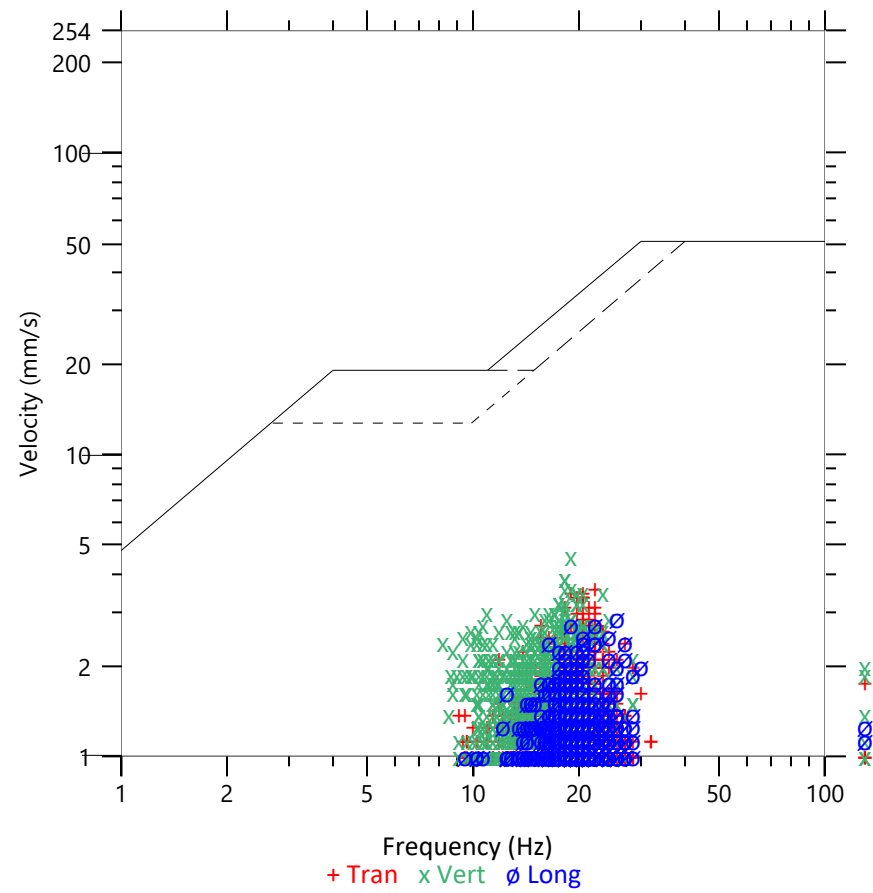
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.8 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221116072105.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 30 willow point
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.683 mm/s	4.699 mm/s	2.921 mm/s
Zero Crossing Frequency	22.3 Hz	19.0 Hz	25.6 Hz
Date	Nov 16, 2022	Nov 16, 2022	Nov 16, 2022
Time	12:25:15	07:54:55	12:25:10
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.6 Hz
Overswing Ratio	3.9	4.2	3.9
Peak Vector Sum	4.843 mm/s at November 16, 2022 07:54:55		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 16, 2022 07:21:05
Finish November 16, 2022 18:31:39
Number of Intervals/Interval 8046.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.8 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221116072105.IDFH

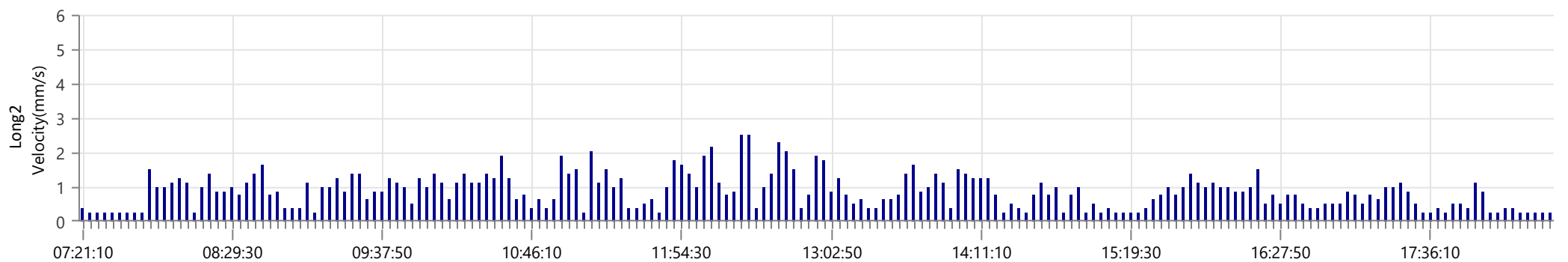
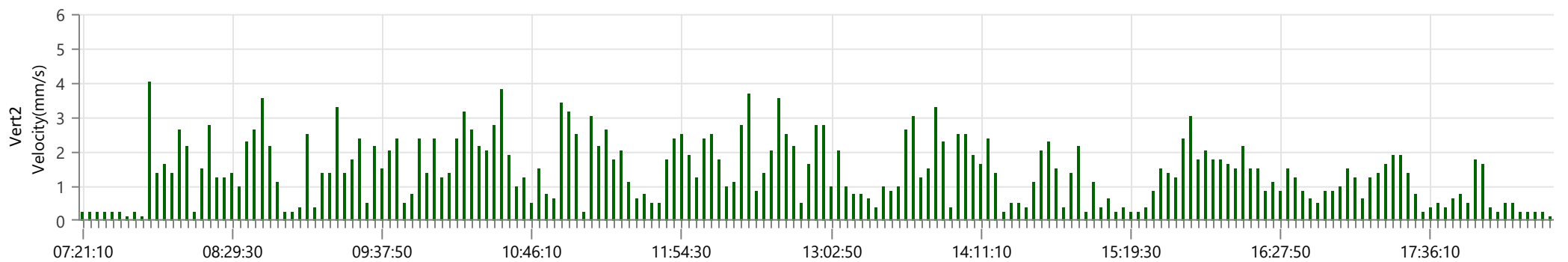
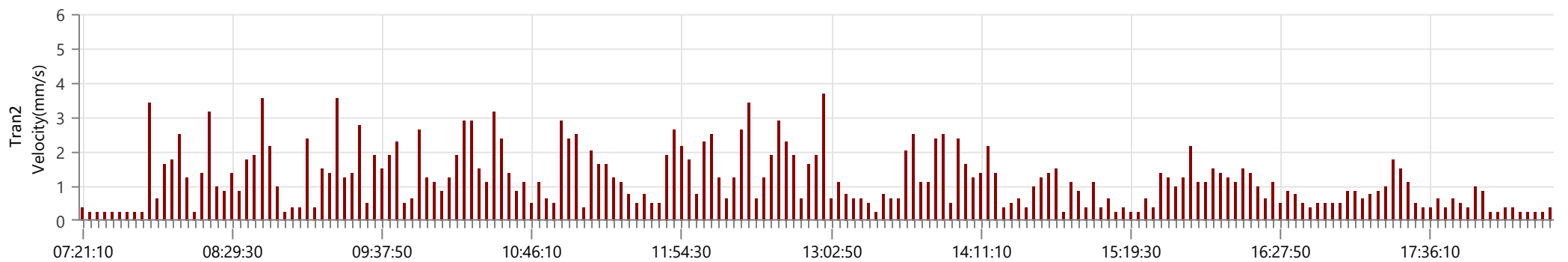
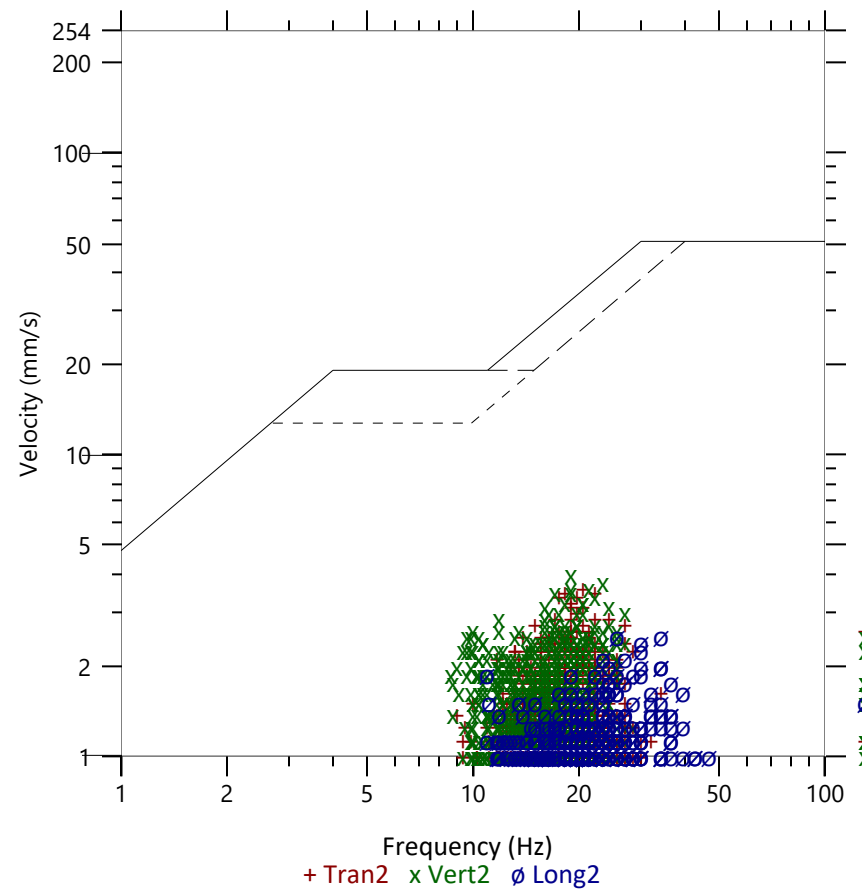
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 30 willow point
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.683 mm/s	4.064 mm/s	2.540 mm/s
Zero Crossing Frequency	20.5 Hz	19.0 Hz	25.6 Hz
Date	Nov 16, 2022	Nov 16, 2022	Nov 16, 2022
Time	13:00:00	07:54:55	12:23:35
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.8	4.0	3.9

Peak Vector Sum 4.335 mm/s at November 16, 2022 12:25:20

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 17, 2022 07:41:23
Finish November 17, 2022 18:04:19
Number of Intervals/Interval 7475.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

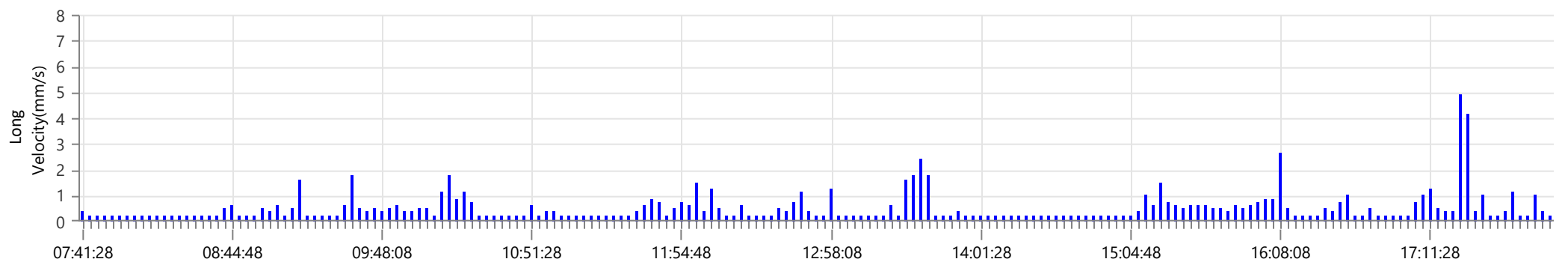
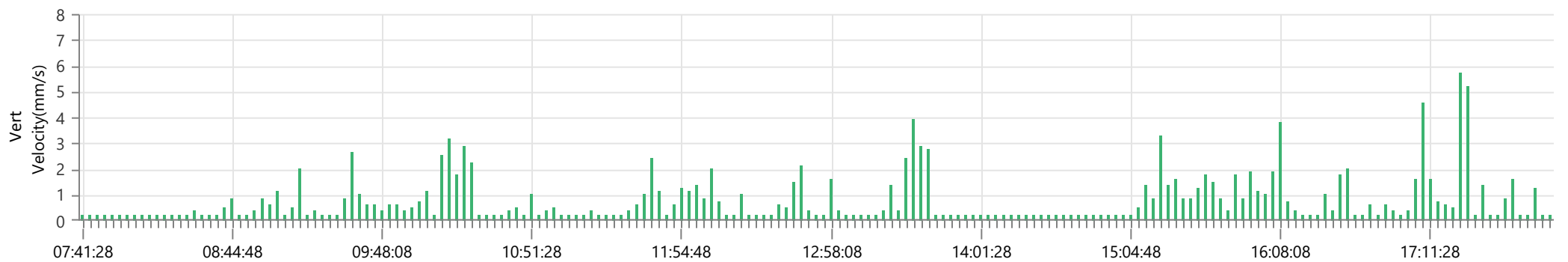
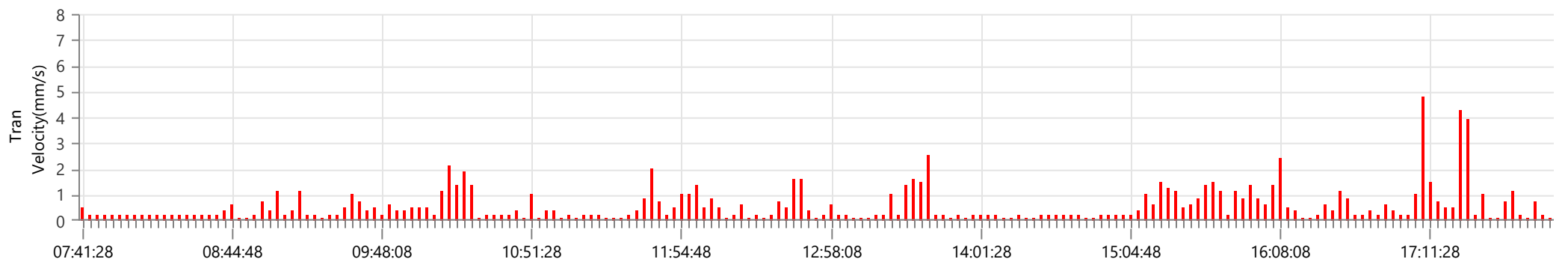
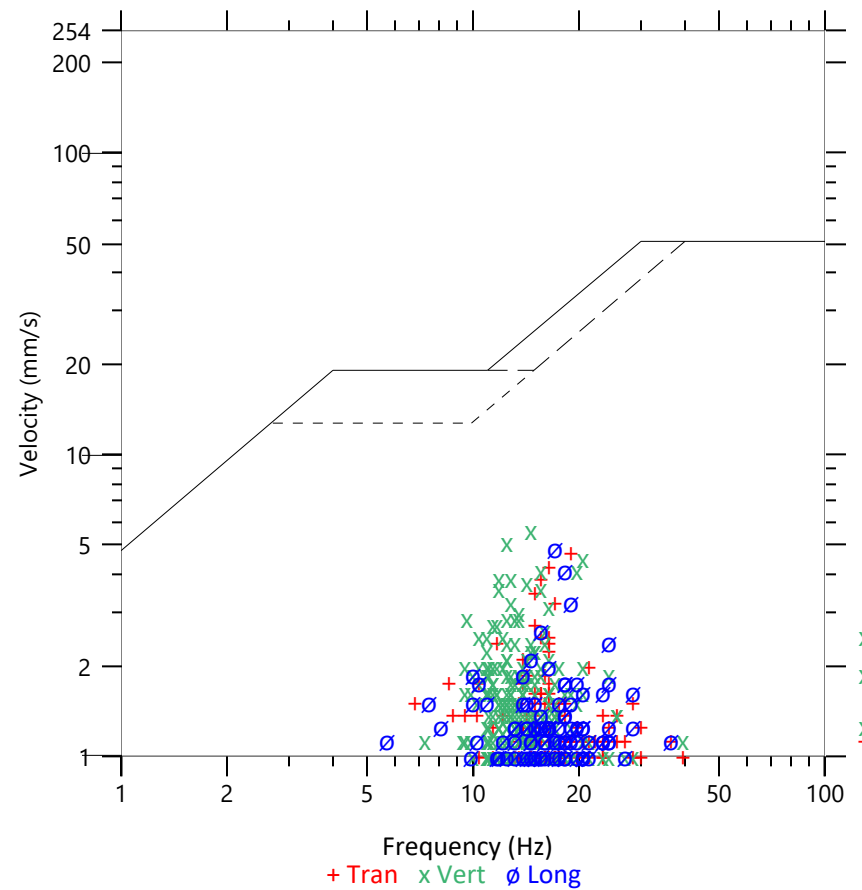
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221117074123.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.826 mm/s	5.715 mm/s	4.953 mm/s
Zero Crossing Frequency	19.0 Hz	14.6 Hz	17.1 Hz
Date	Nov 17, 2022	Nov 17, 2022	Nov 17, 2022
Time	17:10:23	17:26:58	17:26:58
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	3.7	3.8	3.7
Peak Vector Sum	6.650 mm/s at November 17, 2022 17:26:58		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 17, 2022 07:41:23
Finish November 17, 2022 18:04:19
Number of Intervals/Interval 7475.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

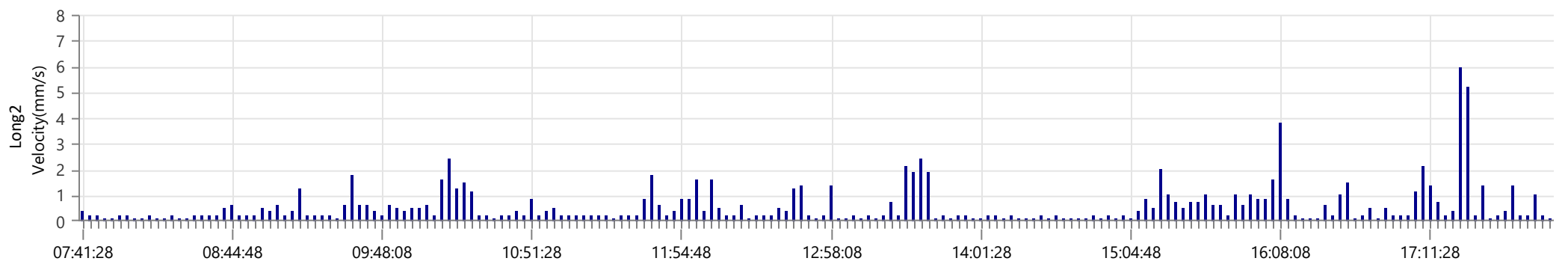
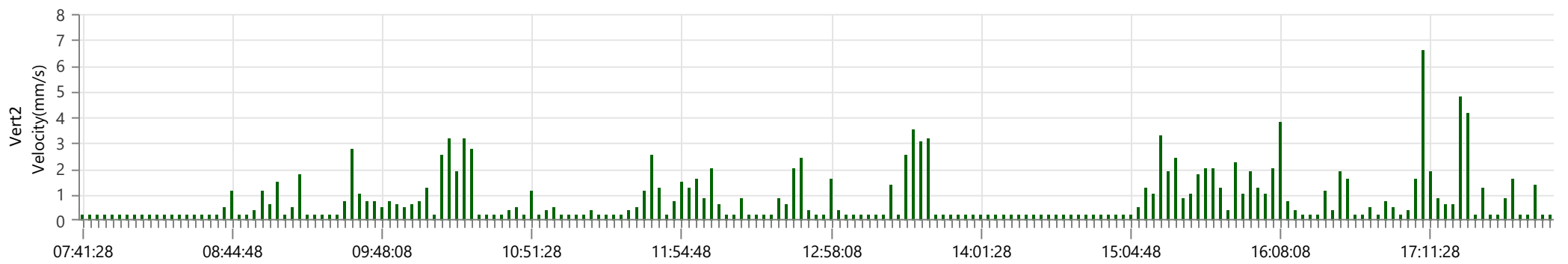
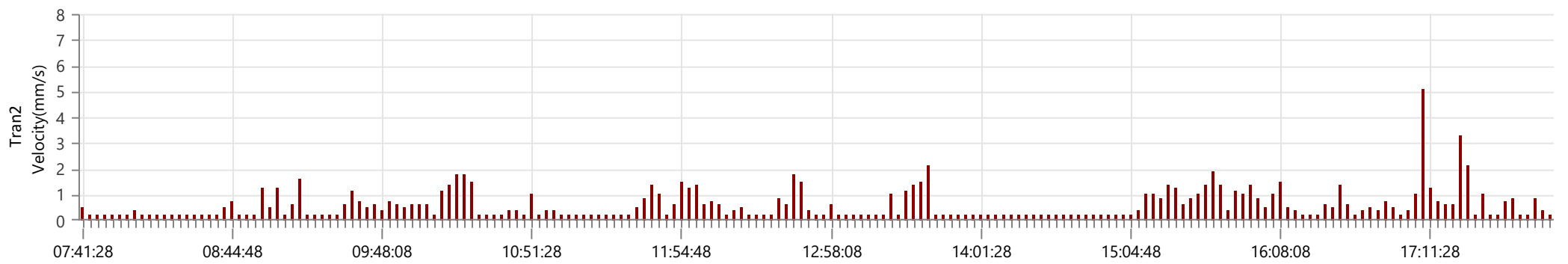
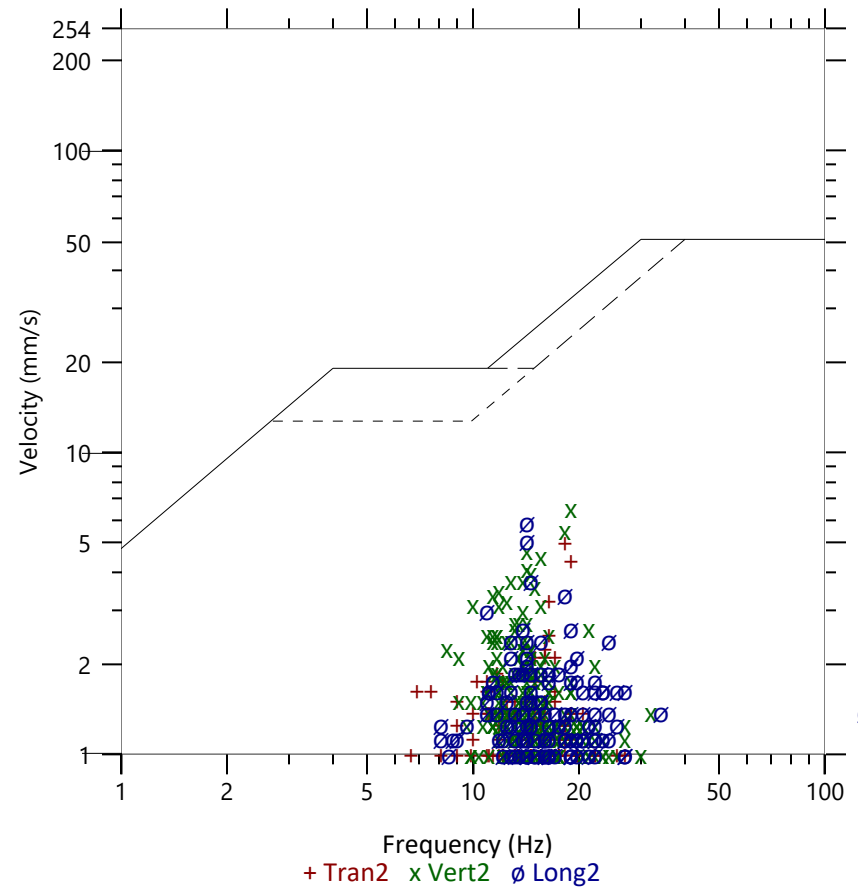
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221117074123.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.080 mm/s	6.604 mm/s	5.969 mm/s
Zero Crossing Frequency	18.3 Hz	19.0 Hz	14.2 Hz
Date	Nov 17, 2022	Nov 17, 2022	Nov 17, 2022
Time	17:10:23	17:10:23	17:26:58
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	4.0	4.1	4.0
Peak Vector Sum	6.870 mm/s at November 17, 2022 17:26:58		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 18, 2022 07:29:27
Finish November 18, 2022 18:14:03
Number of Intervals/Interval 7735.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

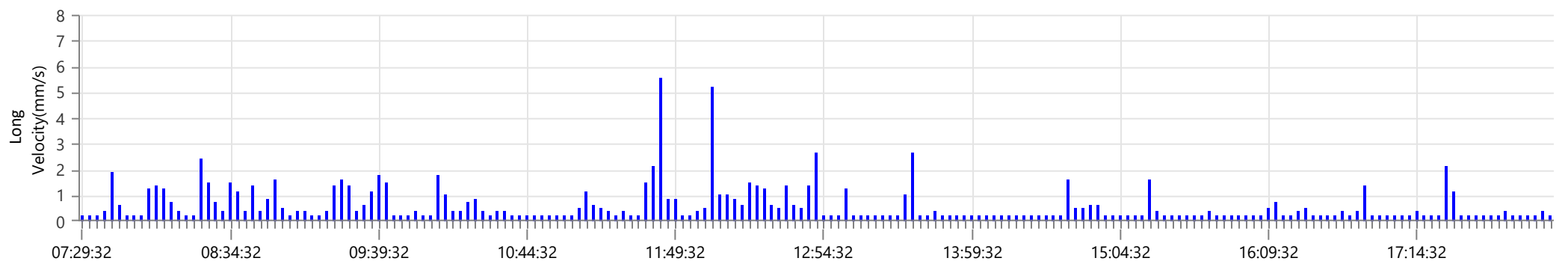
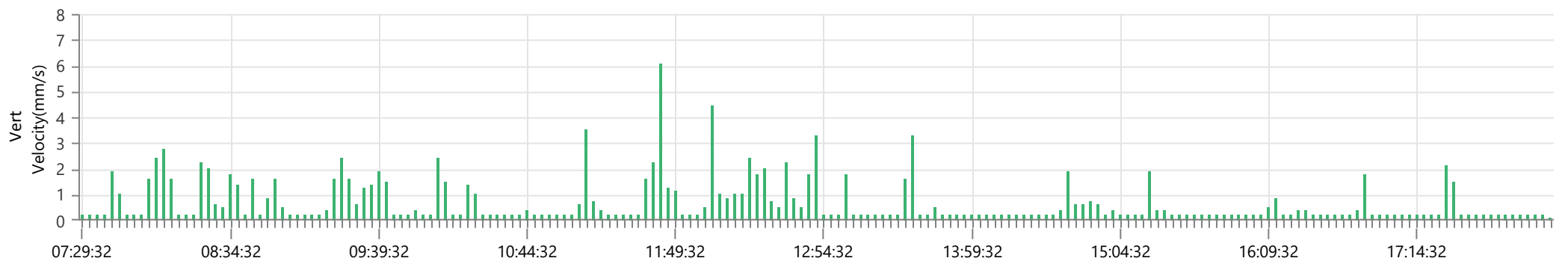
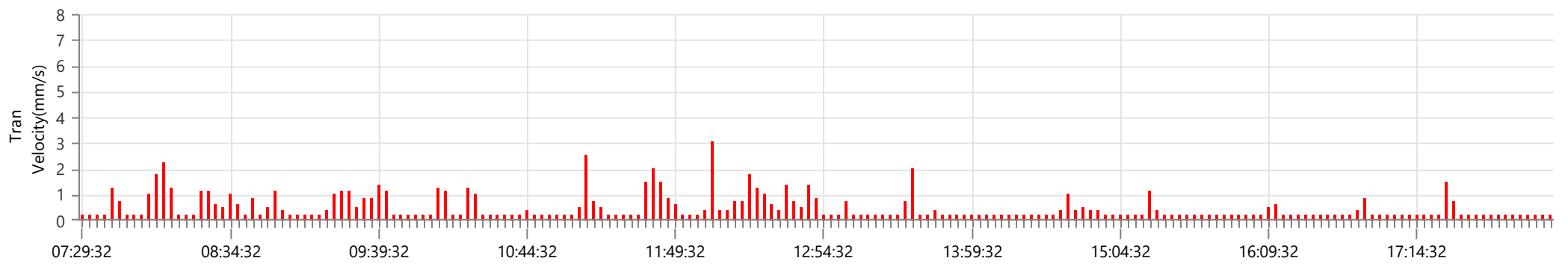
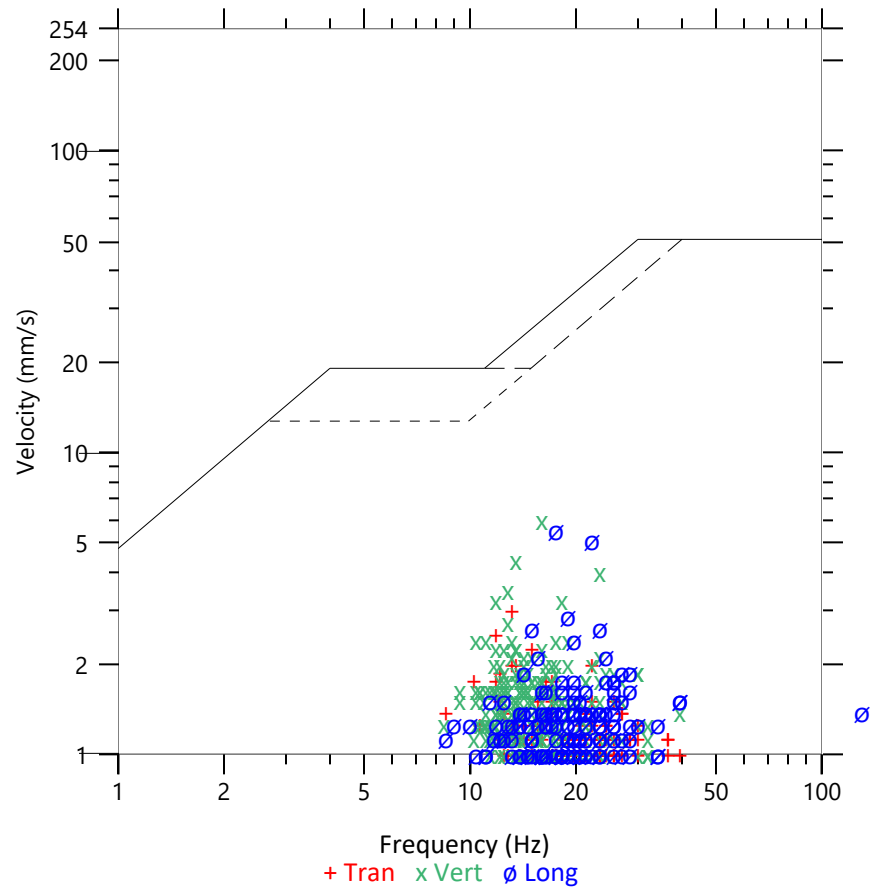
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221118072927.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.048 mm/s	6.096 mm/s	5.588 mm/s
Zero Crossing Frequency	13.1 Hz	16.0 Hz	17.7 Hz
Date	Nov 18, 2022	Nov 18, 2022	Nov 18, 2022
Time	12:08:37	11:43:07	11:43:07
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.5 Hz	7.7 Hz
Overswing Ratio	3.5	3.9	3.8
Peak Vector Sum	6.519 mm/s at November 18, 2022 11:43:07		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 18, 2022 07:29:27
Finish November 18, 2022 18:14:03
Number of Intervals/Interval 7735.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

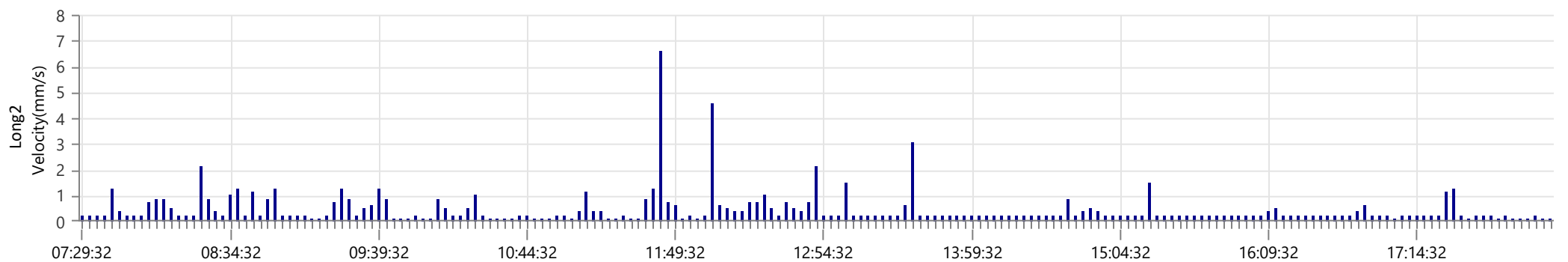
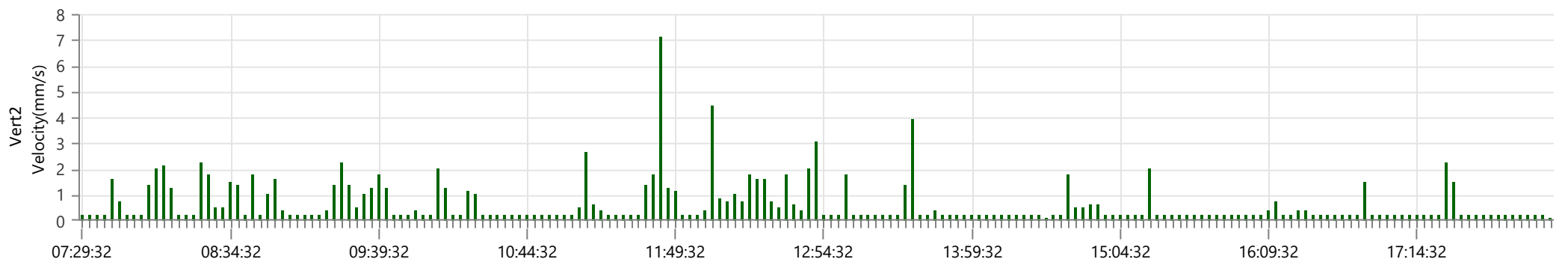
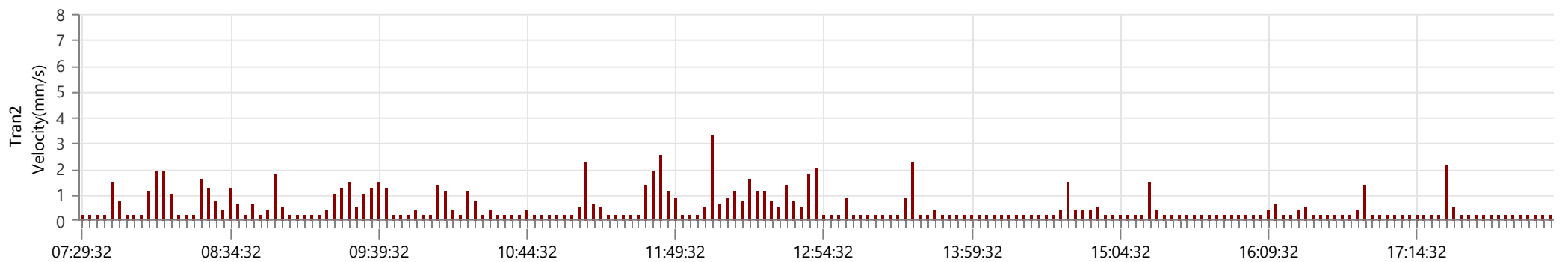
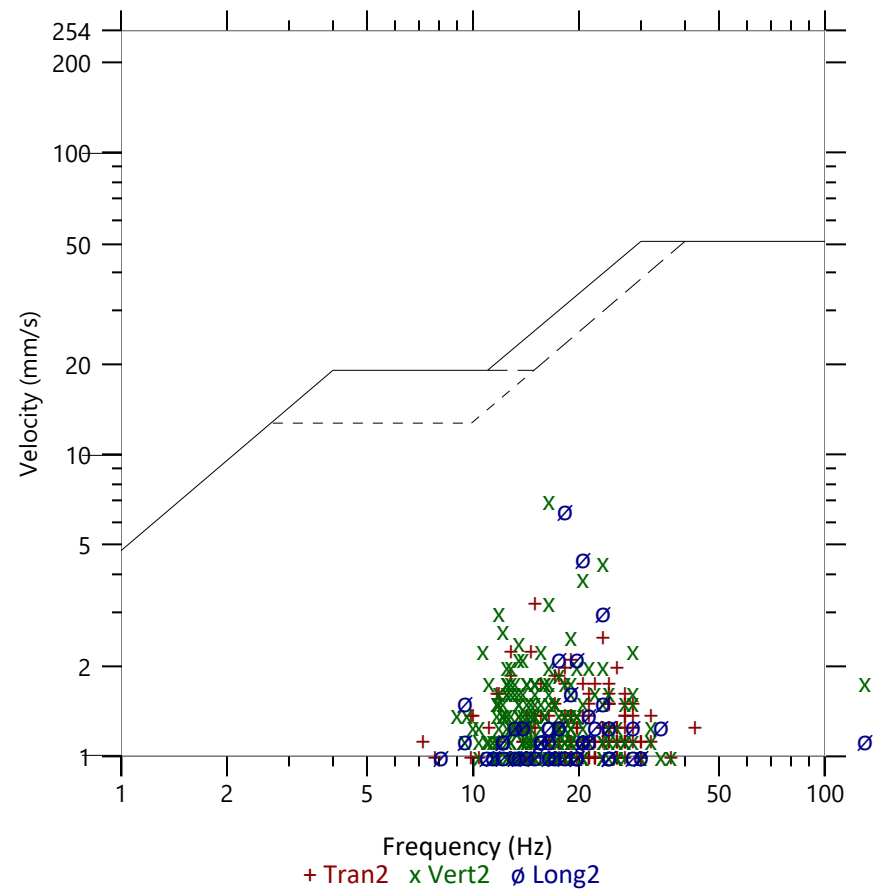
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221118072927.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.302 mm/s	7.112 mm/s	6.604 mm/s
Zero Crossing Frequency	15.1 Hz	16.5 Hz	18.3 Hz
Date	Nov 18, 2022	Nov 18, 2022	Nov 18, 2022
Time	12:08:37	11:43:07	11:43:07
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.8 Hz
Overswing Ratio	3.9	4.1	3.9
Peak Vector Sum	7.729 mm/s at November 18, 2022 11:43:07		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 19, 2022 07:34:18
Finish November 19, 2022 12:28:52
Number of Intervals/Interval 3534.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

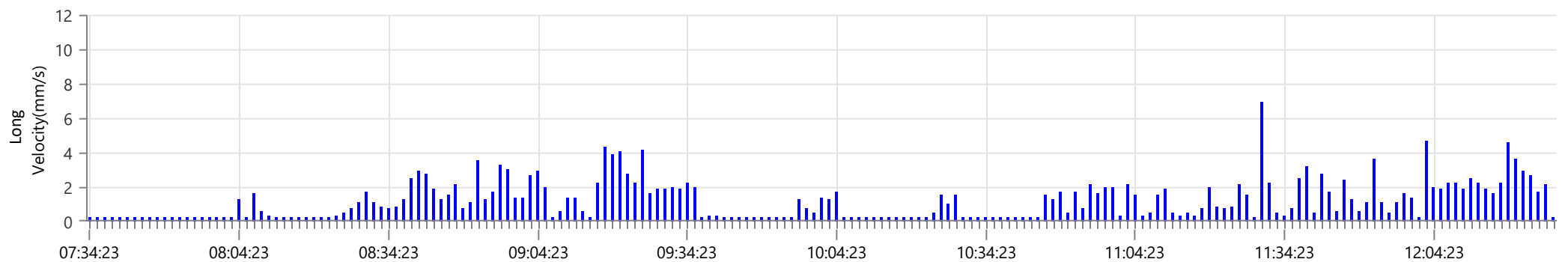
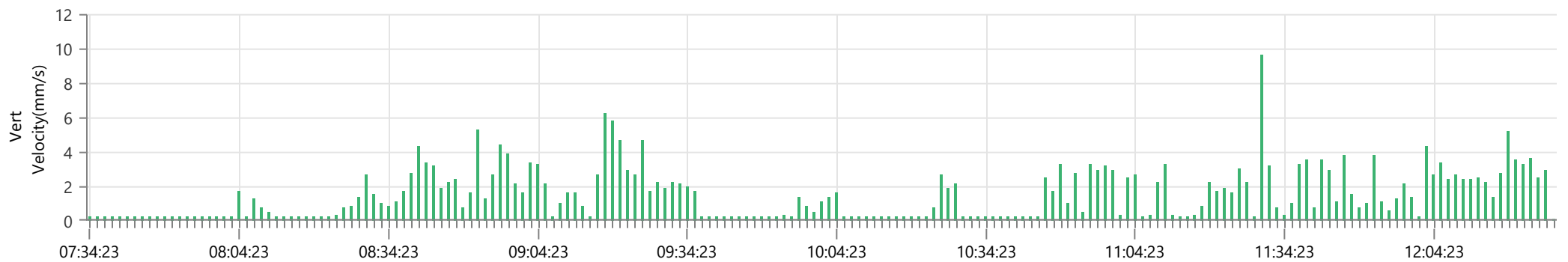
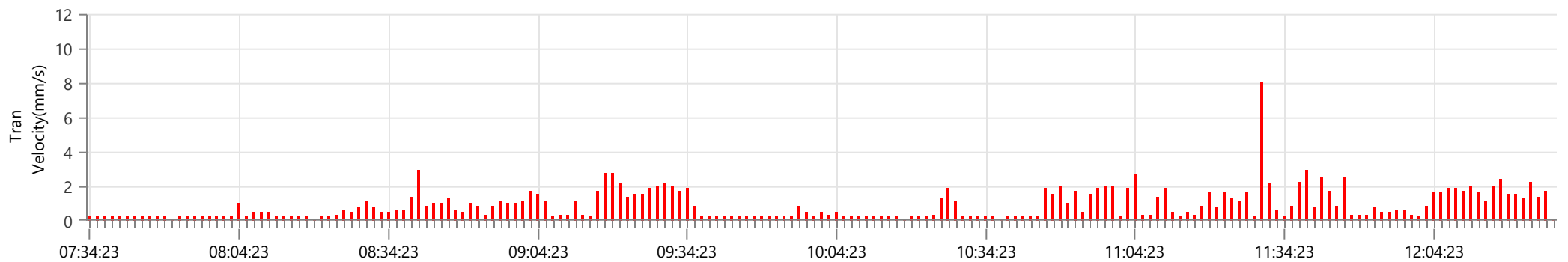
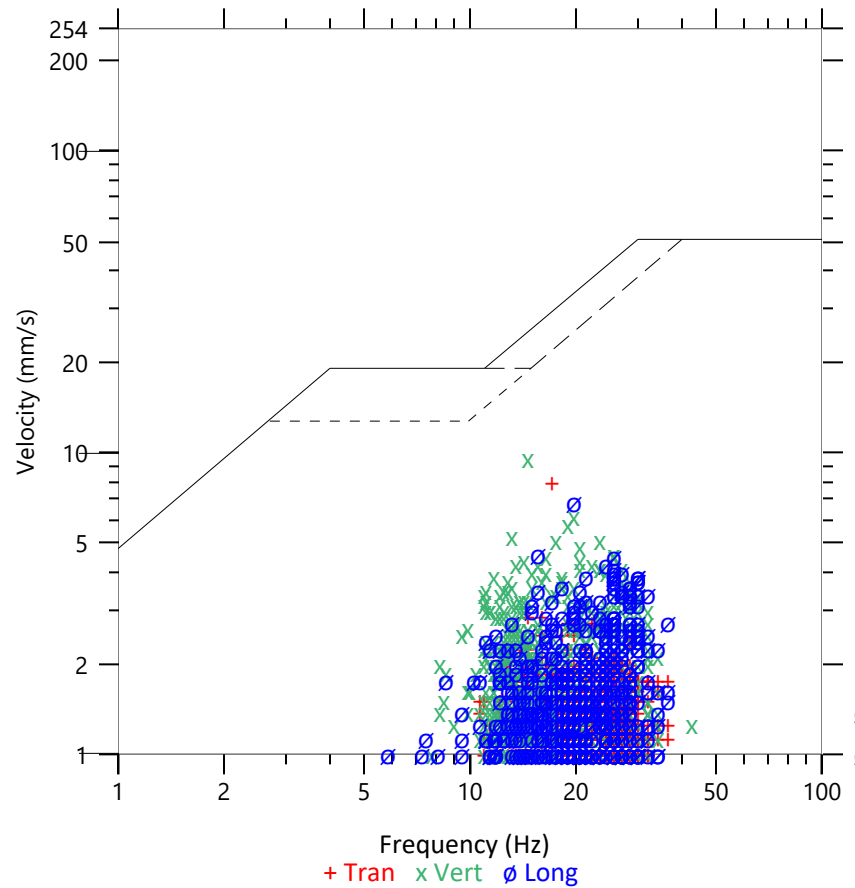
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221119073418.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	8.128 mm/s	9.652 mm/s	6.985 mm/s
Zero Crossing Frequency	17.1 Hz	14.6 Hz	19.7 Hz
Date	Nov 19, 2022	Nov 19, 2022	Nov 19, 2022
Time	11:30:33	11:30:33	11:30:33
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.3	4.0	4.1
Peak Vector Sum	11.145 mm/s at November 19, 2022 11:30:33		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 19, 2022 07:34:18
Finish November 19, 2022 12:28:52
Number of Intervals/Interval 3534.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

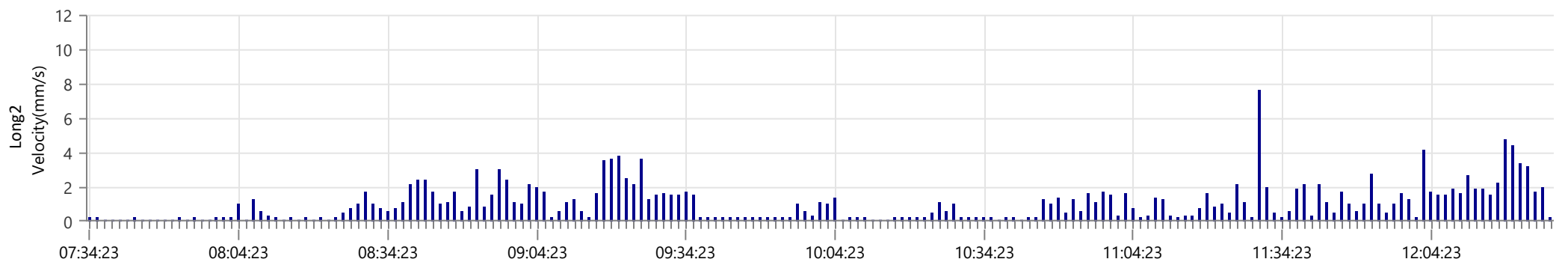
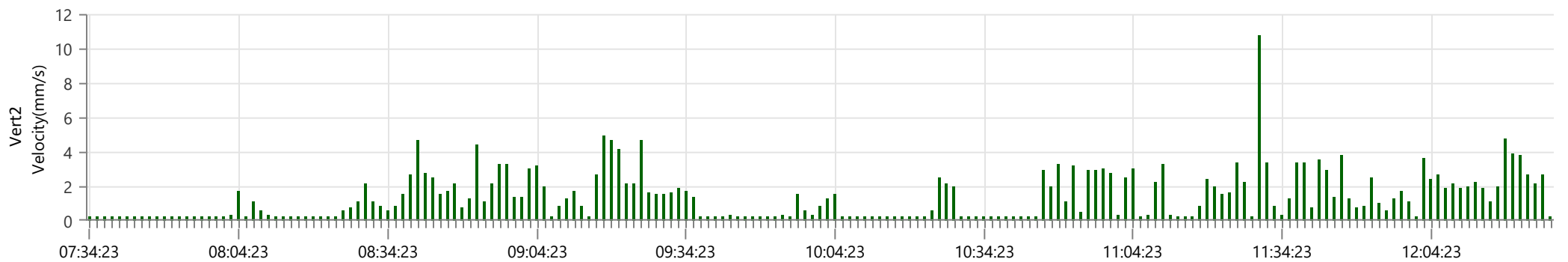
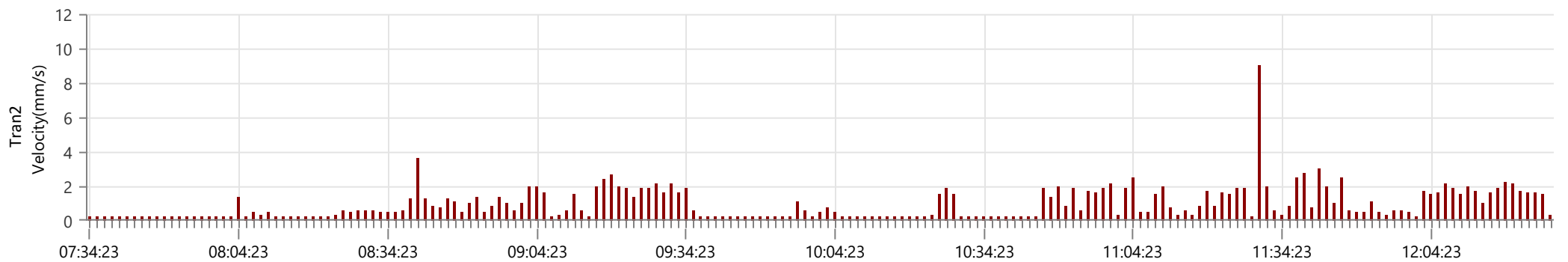
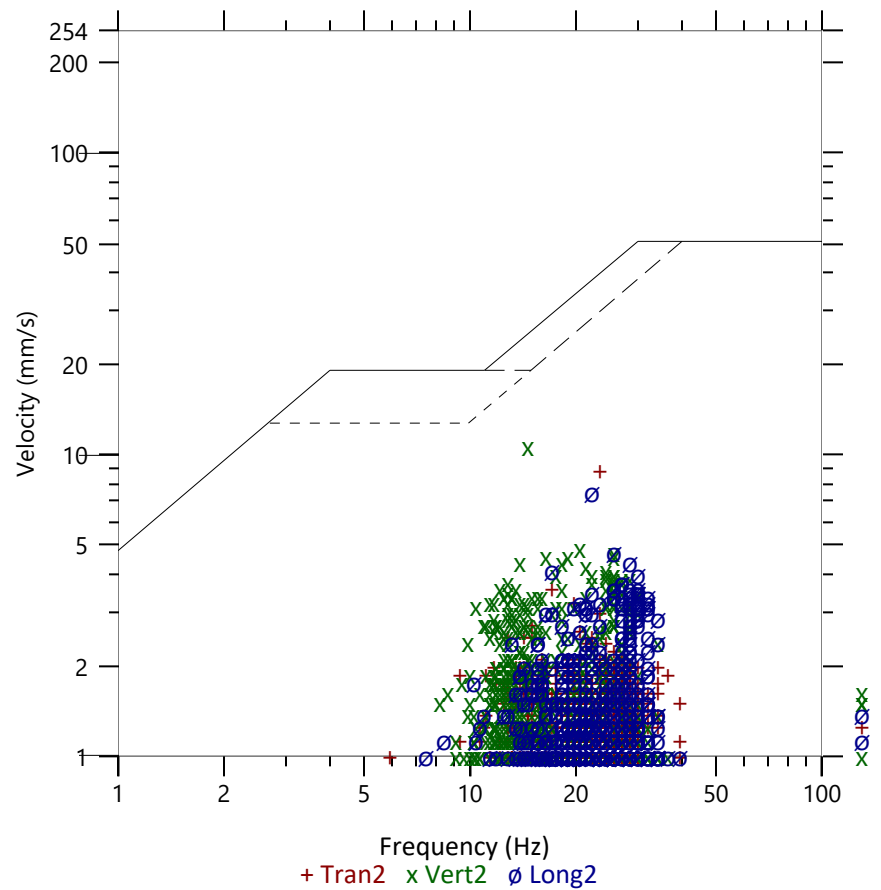
Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221119073418.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 28 willow point
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	9.017 mm/s	10.795 mm/s	7.620 mm/s
Zero Crossing Frequency	23.3 Hz	14.6 Hz	22.3 Hz
Date	Nov 19, 2022	Nov 19, 2022	Nov 19, 2022
Time	11:30:33	11:30:33	11:30:33
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.0	4.1	4.2
Peak Vector Sum	12.527 mm/s at November 19, 2022 11:30:33		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 21, 2022 08:11:46
Finish November 21, 2022 18:58:19
Number of Intervals/Interval 7758.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221121081146.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

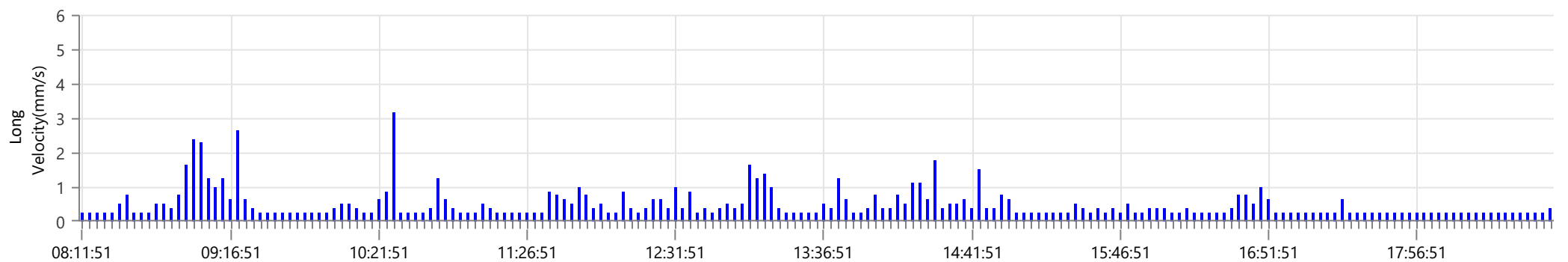
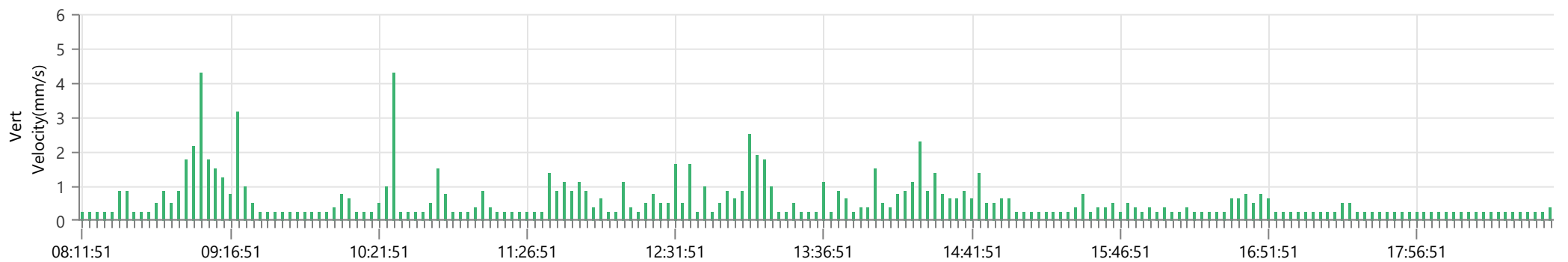
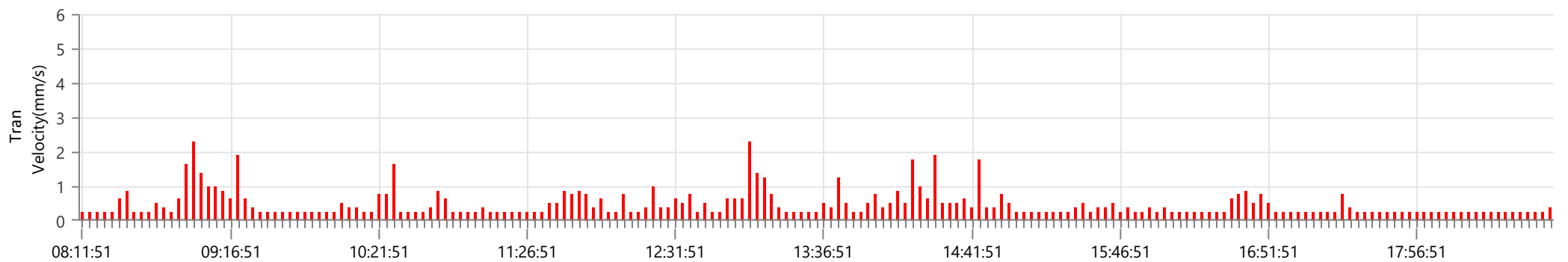
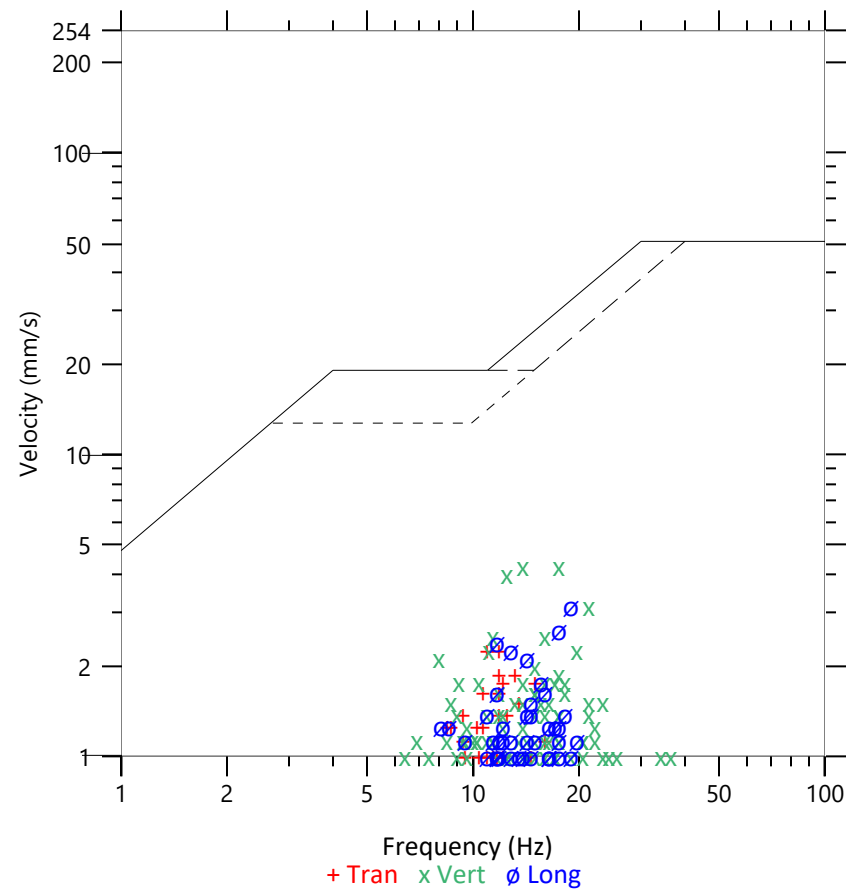
Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.286 mm/s	4.318 mm/s	3.175 mm/s
Zero Crossing Frequency	10.9 Hz	13.8 Hz	19.0 Hz
Date	Nov 21, 2022	Nov 21, 2022	Nov 21, 2022
Time	09:03:41	09:05:16	10:29:31
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.6 Hz
Overswing Ratio	3.8	4.0	3.9

Peak Vector Sum 4.496 mm/s at November 21, 2022 09:05:16

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 21, 2022 08:11:46
Finish November 21, 2022 18:58:19
Number of Intervals/Interval 7758.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221121081146.IDFH

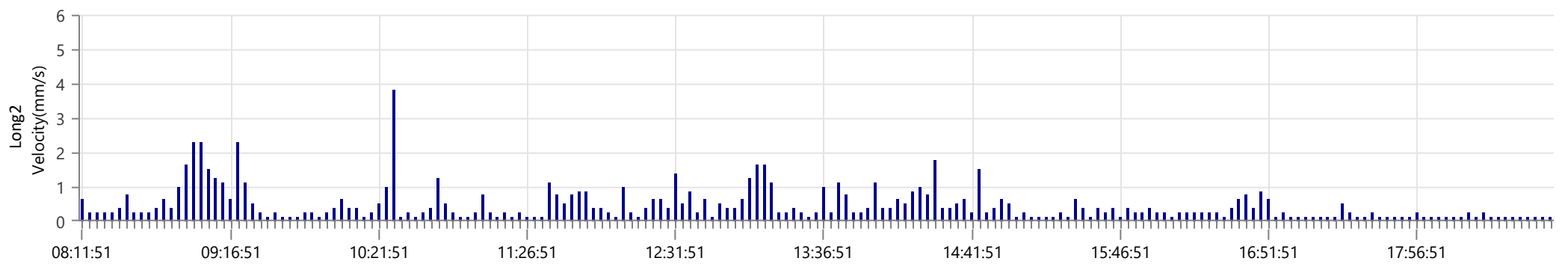
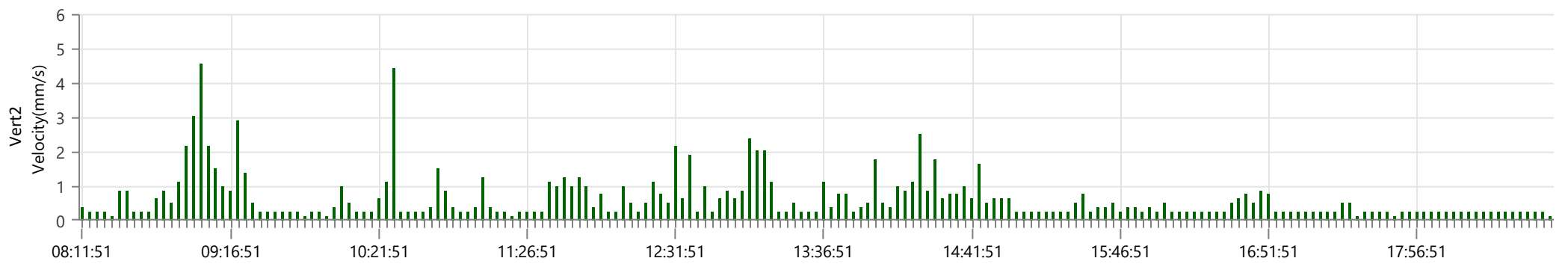
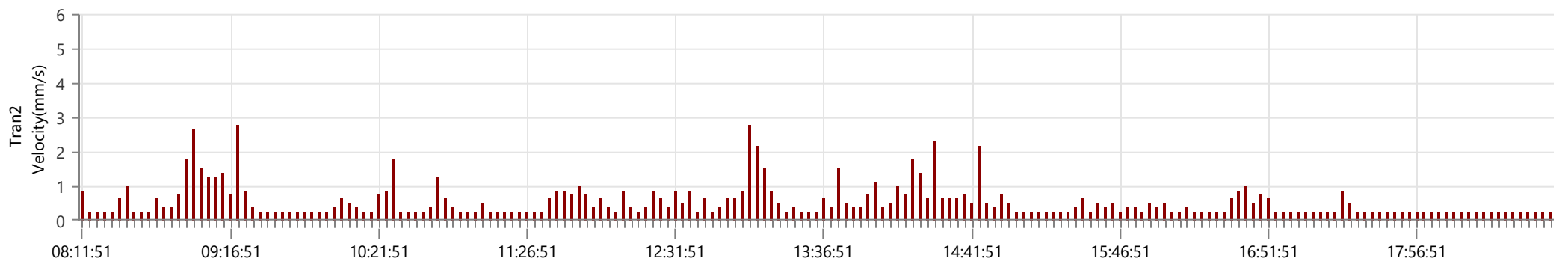
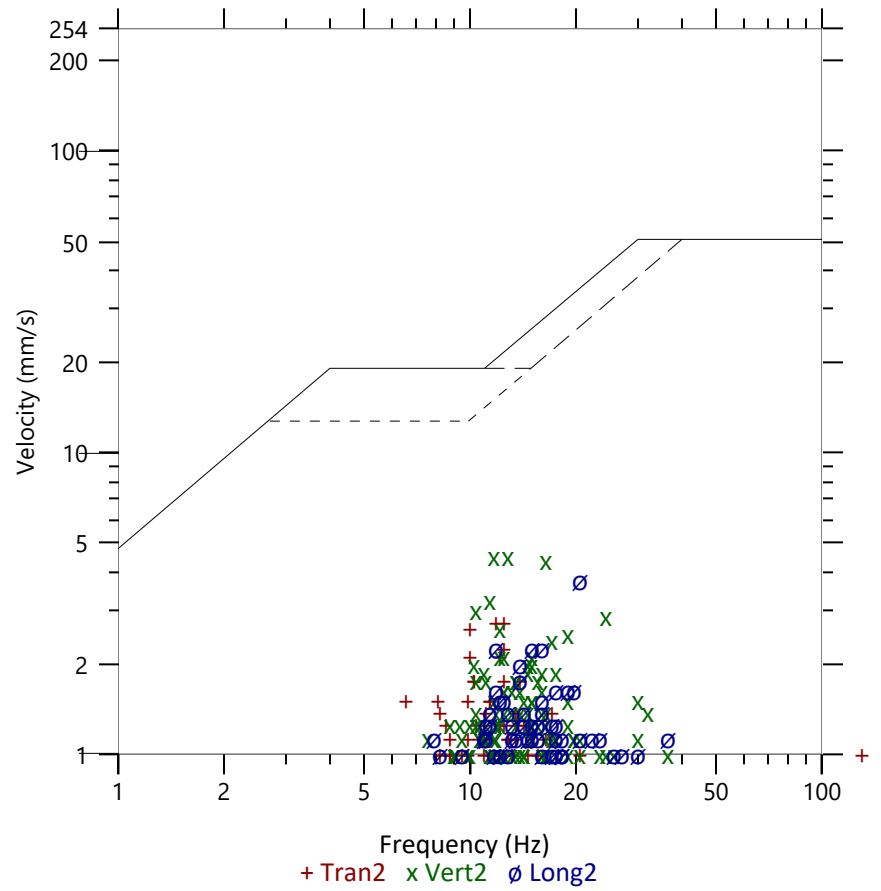
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.794 mm/s	4.572 mm/s	3.810 mm/s
Zero Crossing Frequency	12.5 Hz	12.8 Hz	20.5 Hz
Date	Nov 21, 2022	Nov 21, 2022	Nov 21, 2022
Time	09:21:51	09:05:16	10:29:31
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.7 Hz	7.4 Hz
Overswing Ratio	4.2	3.7	3.8
Peak Vector Sum	5.097 mm/s at November 21, 2022 10:29:31		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 22, 2022 07:00:35
Finish November 22, 2022 18:32:02
Number of Intervals/Interval 8297.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221122070035.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

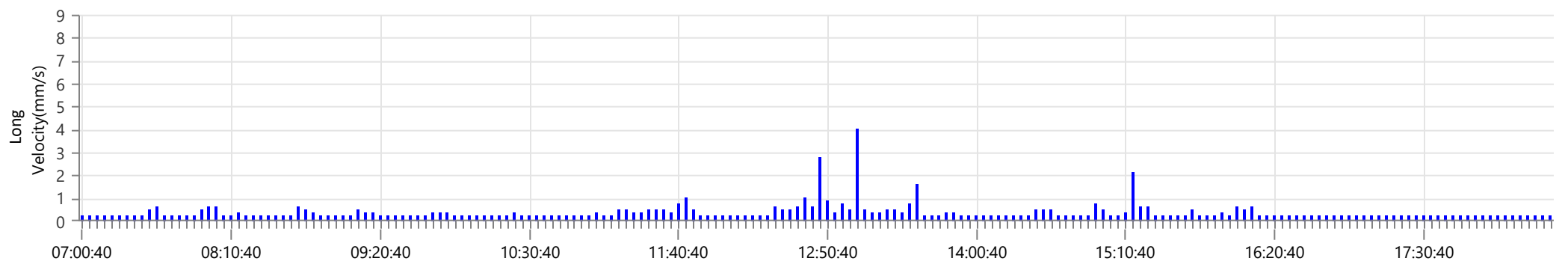
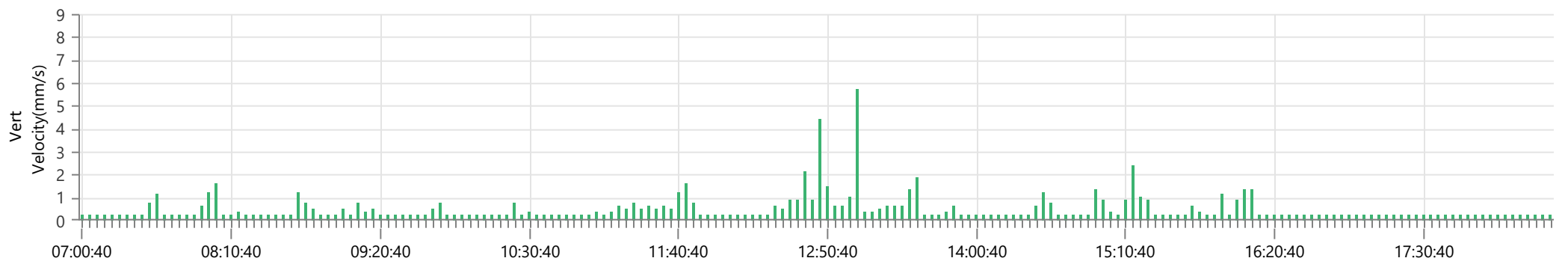
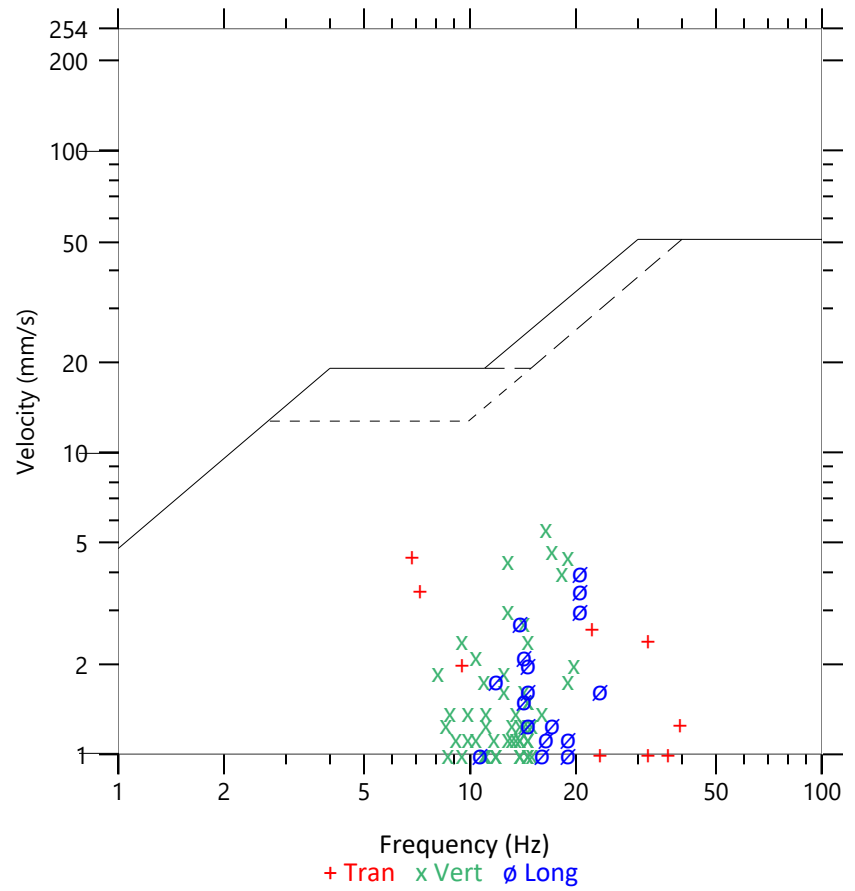
Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.572 mm/s	5.715 mm/s	4.064 mm/s
Zero Crossing Frequency	6.8 Hz	16.5 Hz	20.5 Hz
Date	Nov 22, 2022	Nov 22, 2022	Nov 22, 2022
Time	13:06:15	13:06:15	13:06:15
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	13.0 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	4.6	3.6	3.6

Peak Vector Sum 6.330 mm/s at November 22, 2022 13:06:15

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 22, 2022 07:00:35
Finish November 22, 2022 18:32:02
Number of Intervals/Interval 8297.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221122070035.IDFH

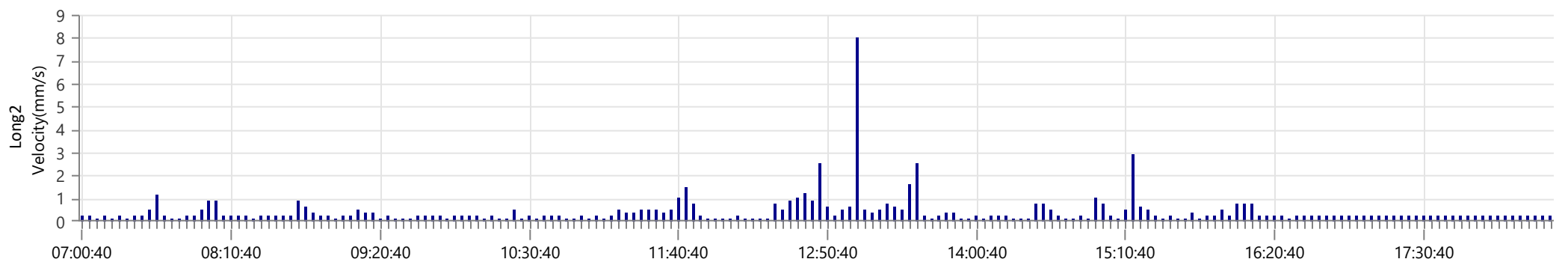
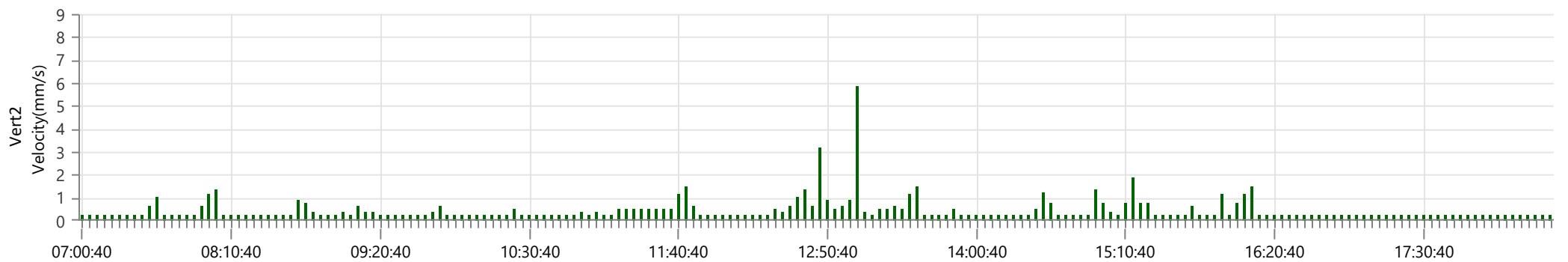
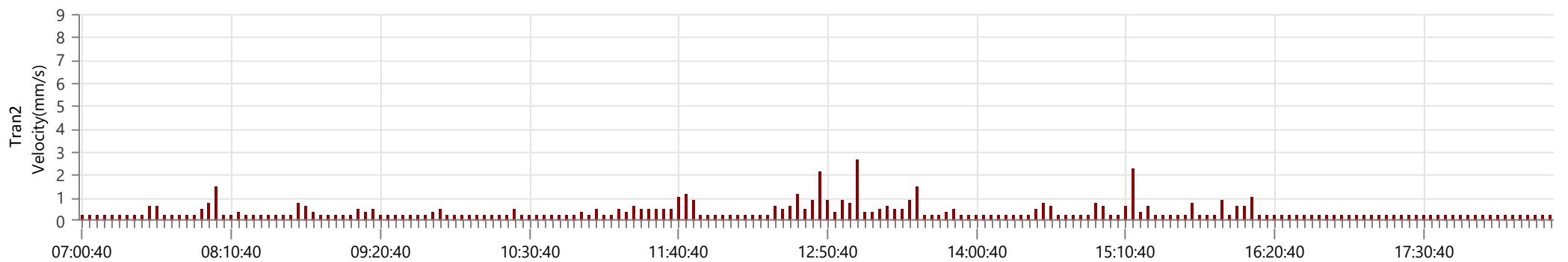
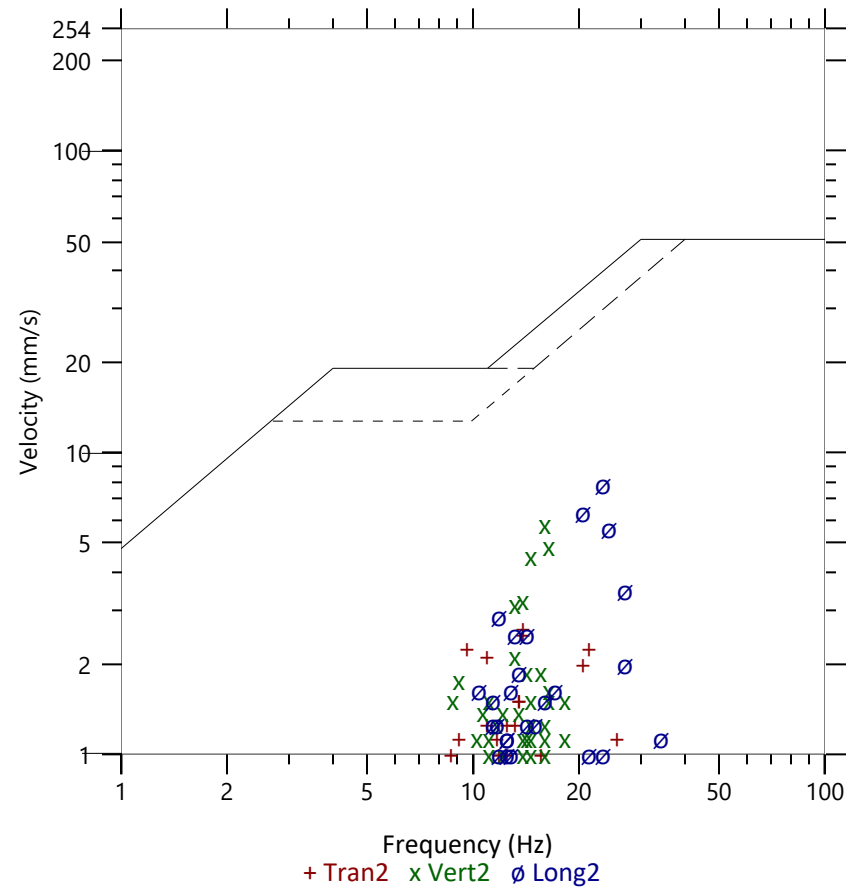
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.667 mm/s	5.842 mm/s	8.001 mm/s
Zero Crossing Frequency	13.8 Hz	16.0 Hz	23.3 Hz
Date	Nov 22, 2022	Nov 22, 2022	Nov 22, 2022
Time	13:06:15	13:06:15	13:06:15
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.8	4.1	4.0
Peak Vector Sum	8.251 mm/s at November 22, 2022 13:06:15		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 23, 2022 07:01:02
Finish November 23, 2022 18:14:02
Number of Intervals/Interval 8076.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.6 volts
Battery Error (Battery very low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221123070102.IDFH

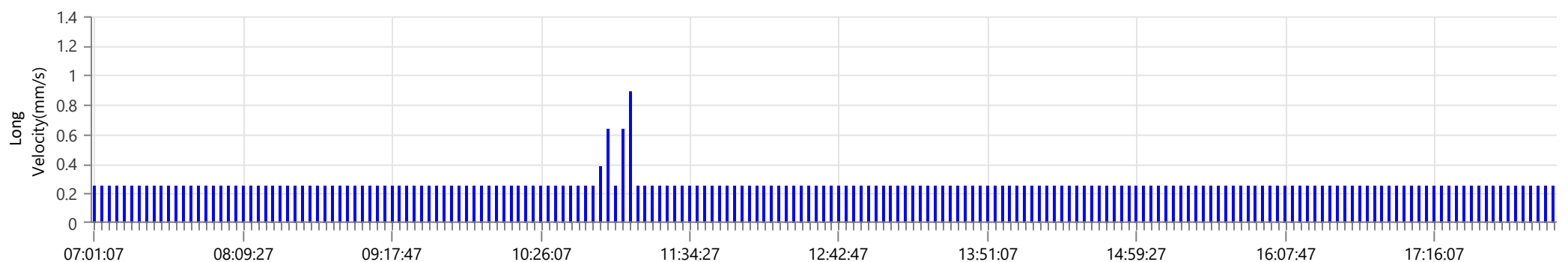
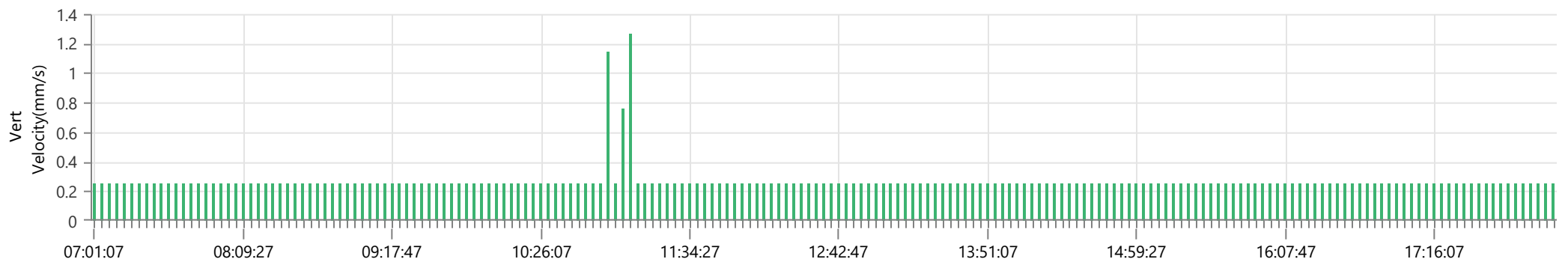
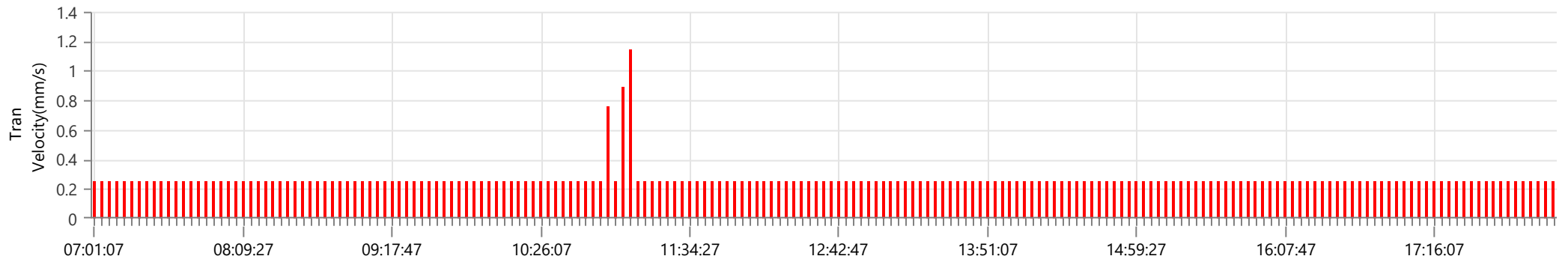
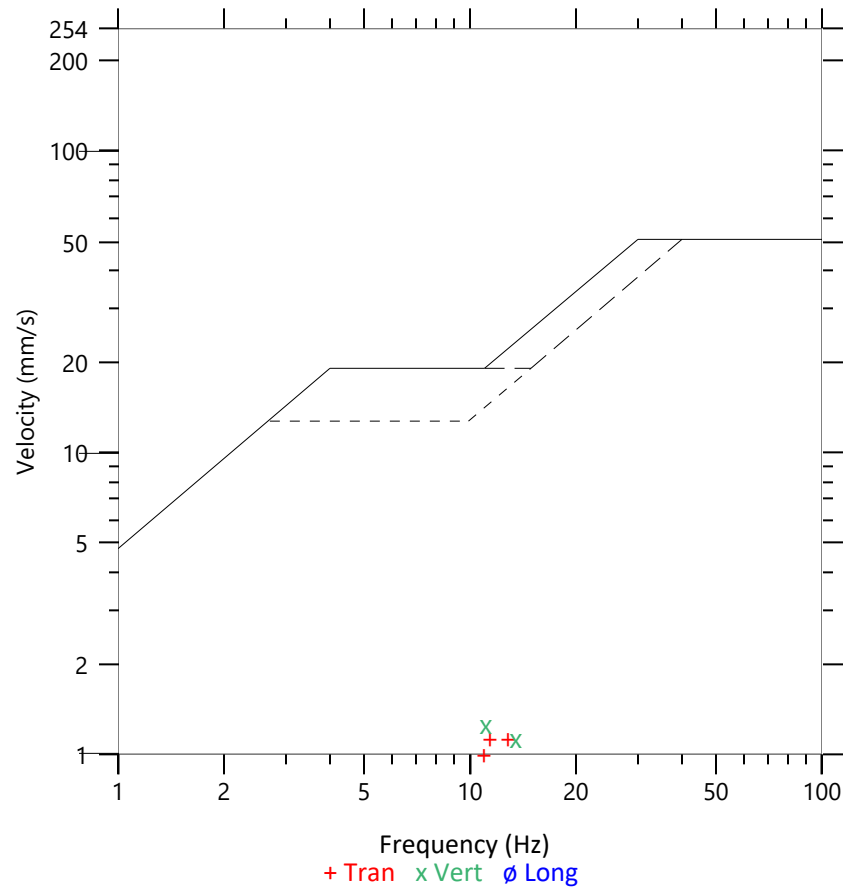
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	1.270 mm/s	0.889 mm/s
Zero Crossing Frequency	12.8 Hz	11.1 Hz	18.3 Hz
Date	Nov 23, 2022	Nov 23, 2022	Nov 23, 2022
Time	11:08:07	11:09:37	11:08:07
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	8.6 Hz	7.3 Hz
Overswing Ratio	3.7	3.2	4.4
Peak Vector Sum	1.581 mm/s at November 23, 2022 11:08:07		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 23, 2022 07:01:02
Finish November 23, 2022 18:14:02
Number of Intervals/Interval 8076.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.6 volts
Battery Error (Battery very low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221123070102.IDFH

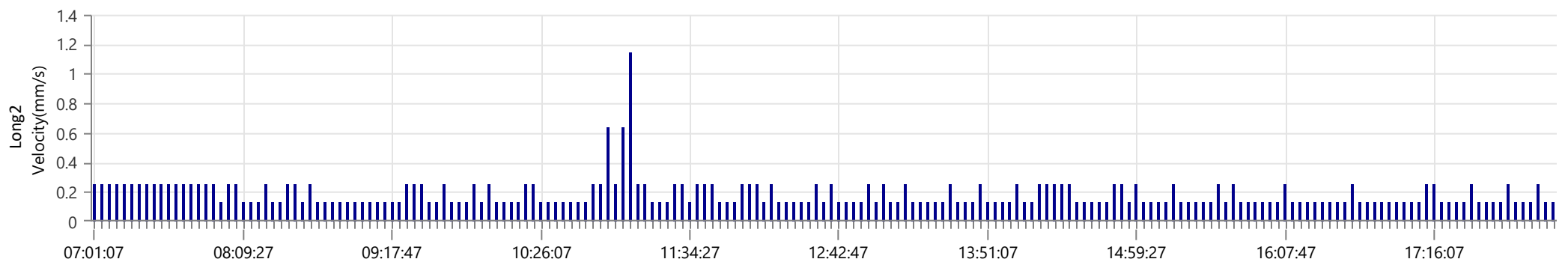
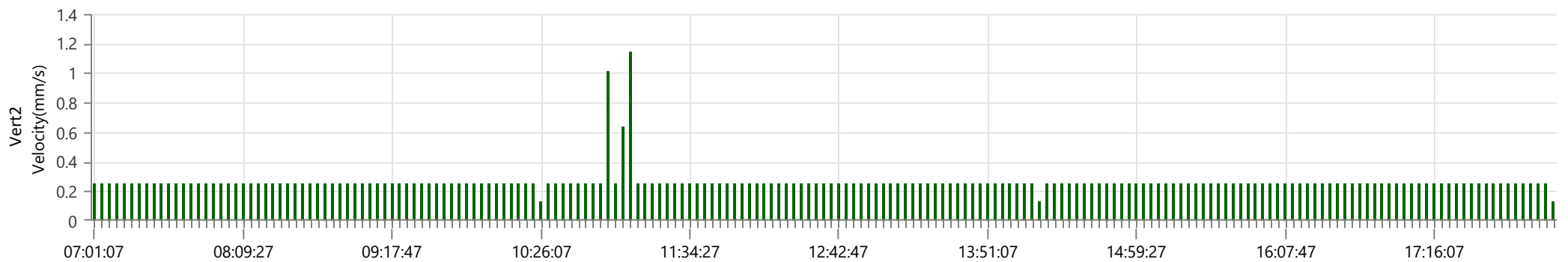
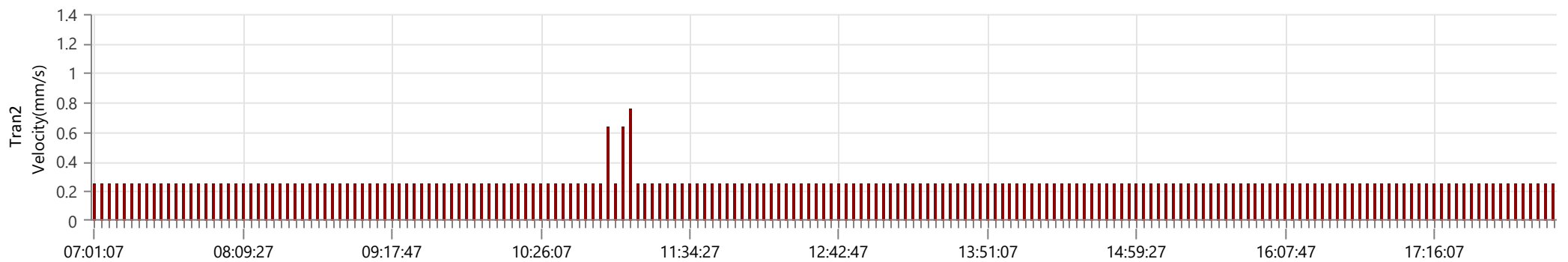
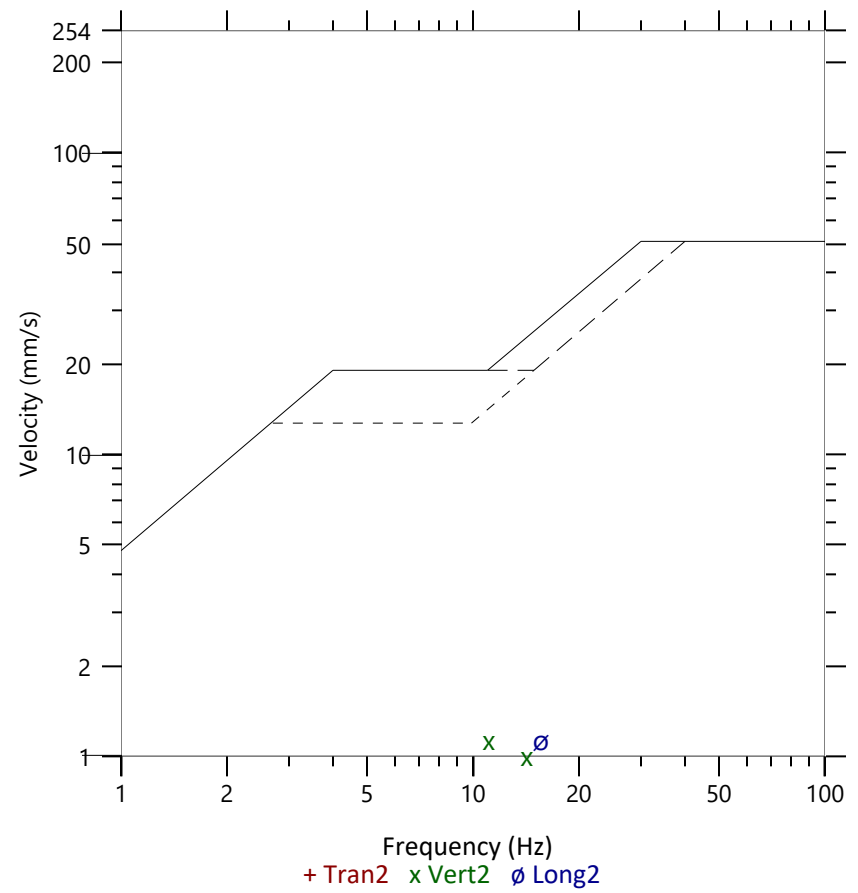
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.762 mm/s	1.143 mm/s	1.143 mm/s
Zero Crossing Frequency	11.4 Hz	11.1 Hz	15.5 Hz
Date	Nov 23, 2022	Nov 23, 2022	Nov 23, 2022
Time	11:09:27	11:09:37	11:08:07
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.7 Hz	7.6 Hz
Overswing Ratio	4.5	3.7	3.8
Peak Vector Sum	1.314 mm/s at November 23, 2022 11:08:07		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 24, 2022 07:09:07
Finish November 24, 2022 18:15:45
Number of Intervals/Interval 7999.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221124070907.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

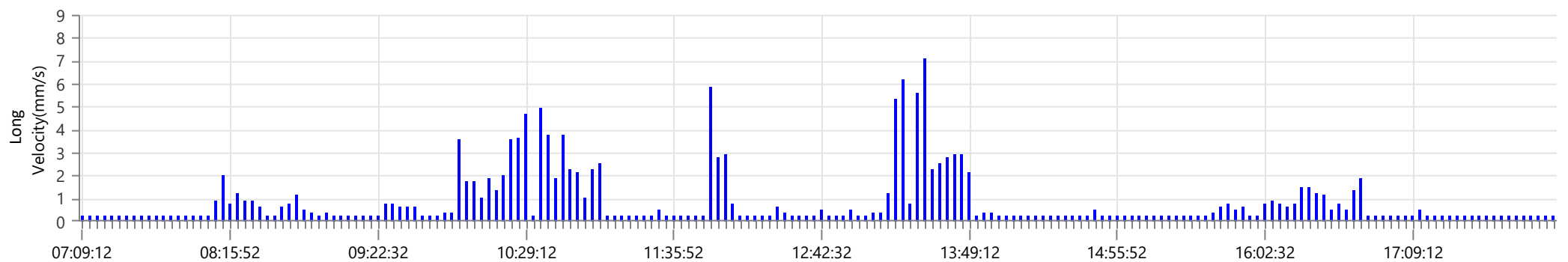
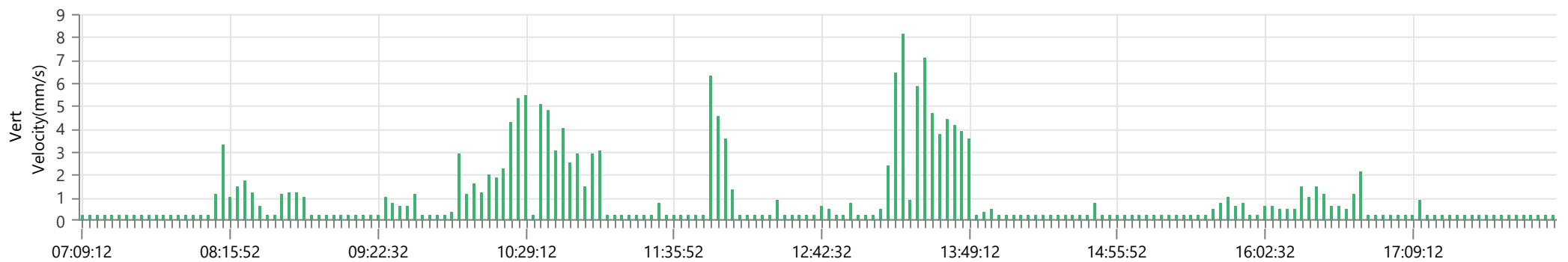
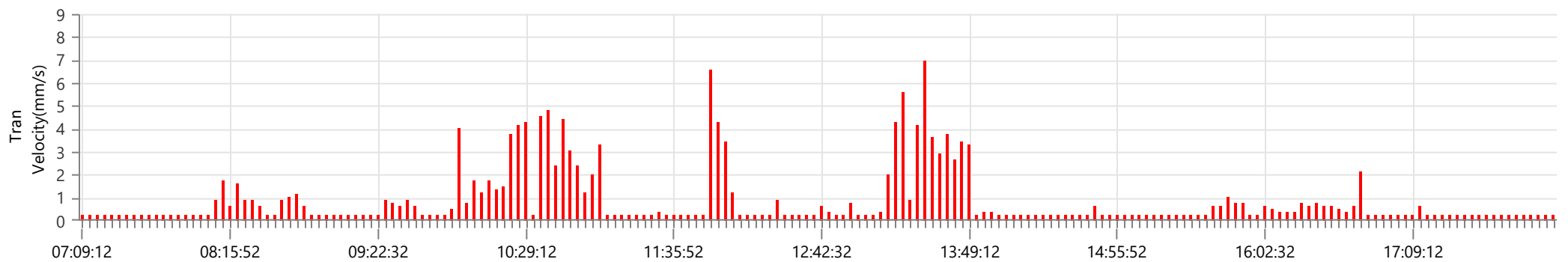
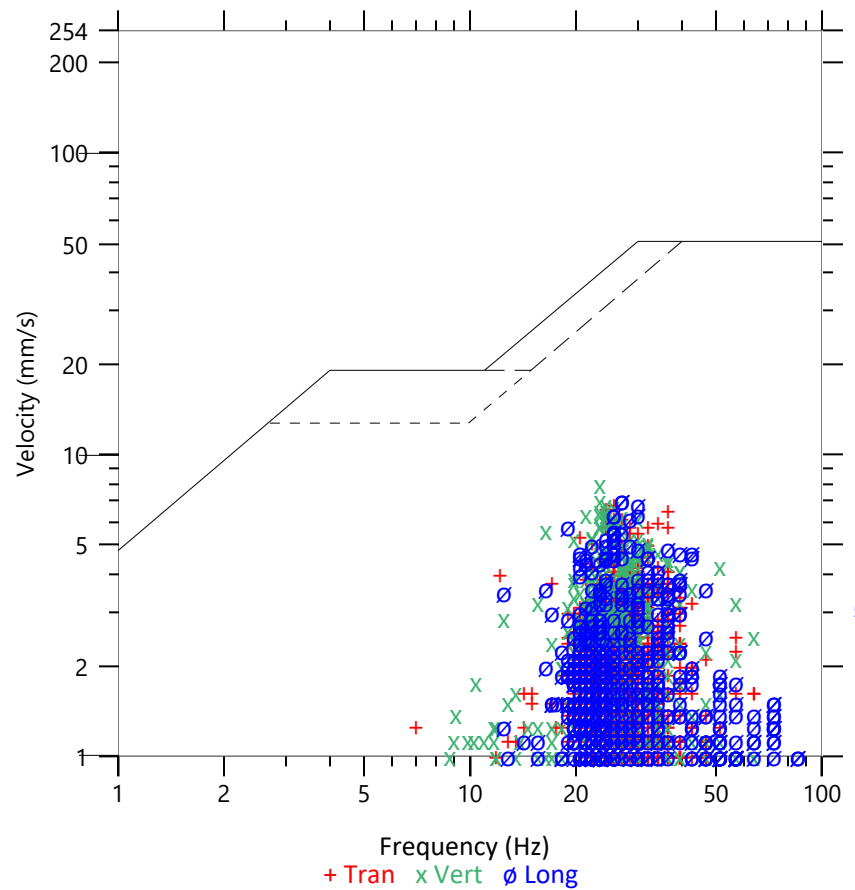
Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	6.985 mm/s	8.128 mm/s	7.112 mm/s
Zero Crossing Frequency	25.6 Hz	23.3 Hz	26.9 Hz
Date	Nov 24, 2022	Nov 24, 2022	Nov 24, 2022
Time	13:30:12	13:21:17	13:30:02
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.5	3.7	3.8

Peak Vector Sum 9.377 mm/s at November 24, 2022 13:30:12

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 24, 2022 07:09:07
Finish November 24, 2022 18:15:45
Number of Intervals/Interval 7999.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221124070907.IDFH

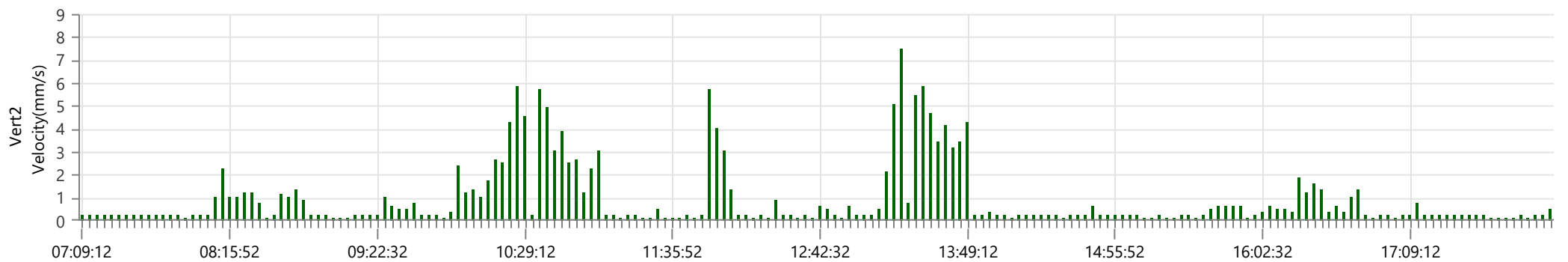
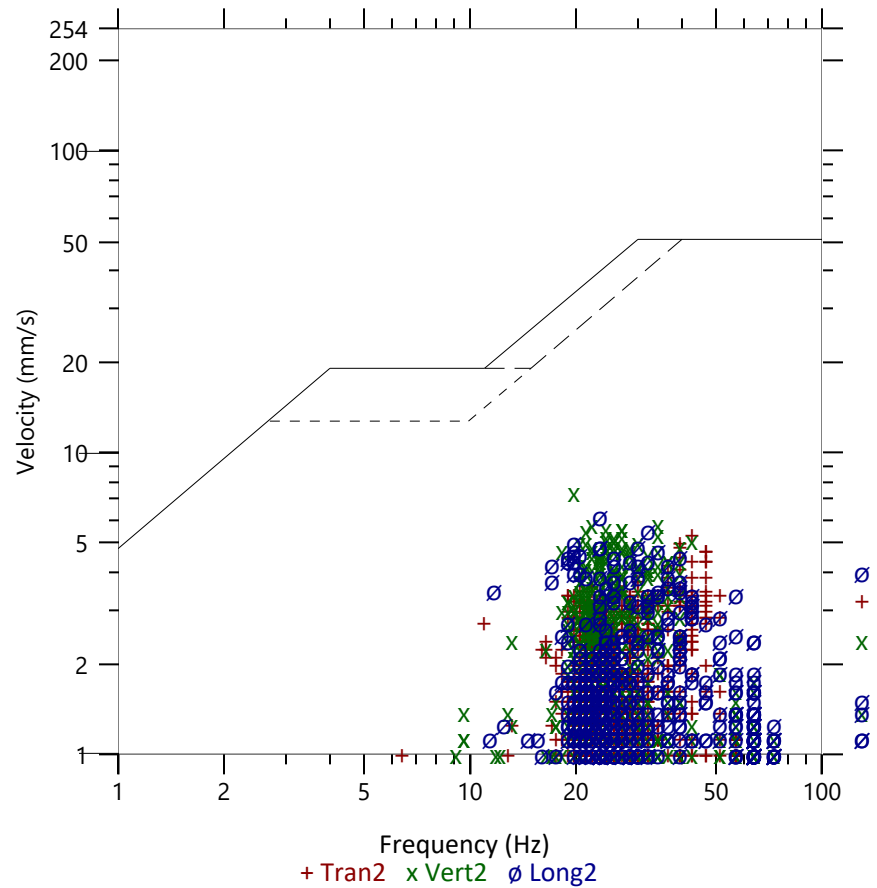
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.461 mm/s	7.493 mm/s	6.223 mm/s
Zero Crossing Frequency	42.7 Hz	19.7 Hz	23.3 Hz
Date	Nov 24, 2022	Nov 24, 2022	Nov 24, 2022
Time	13:30:12	13:21:17	13:21:17
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.8	4.2	3.9
Peak Vector Sum	8.361 mm/s at November 24, 2022 13:21:17		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 25, 2022 07:06:36
Finish November 25, 2022 18:43:03
Number of Intervals/Interval 8357.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by InstanTel
Event File Name BA19603_20221125070636.IDFH

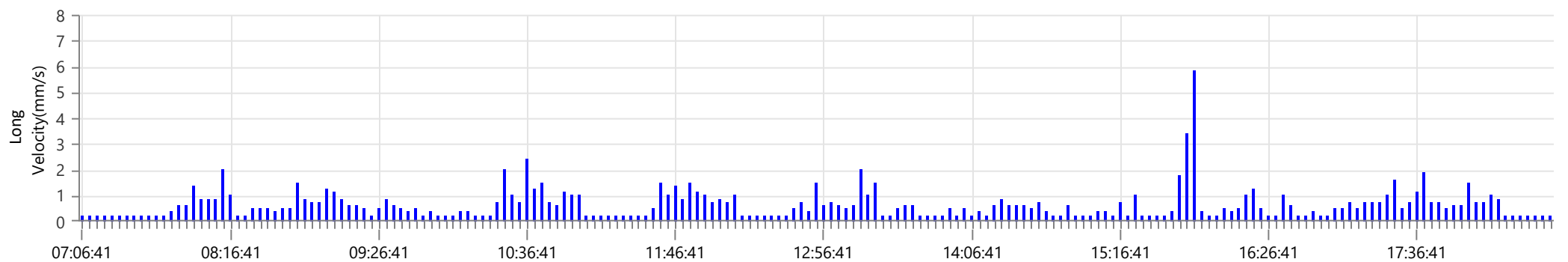
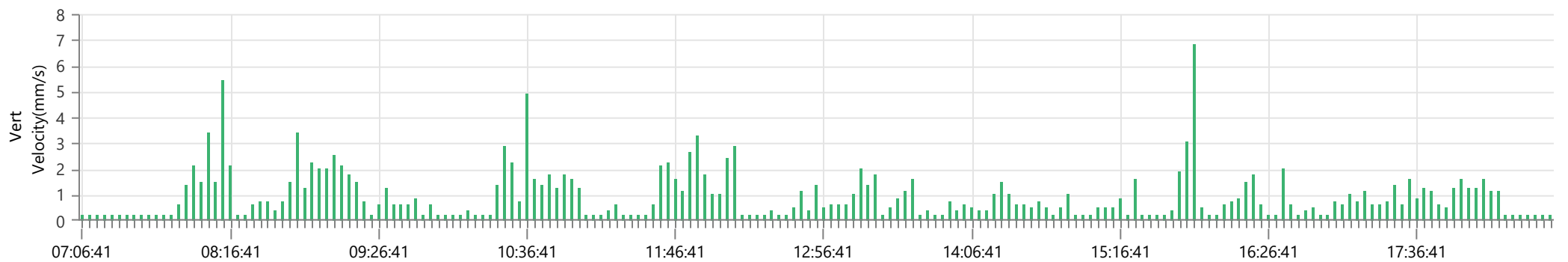
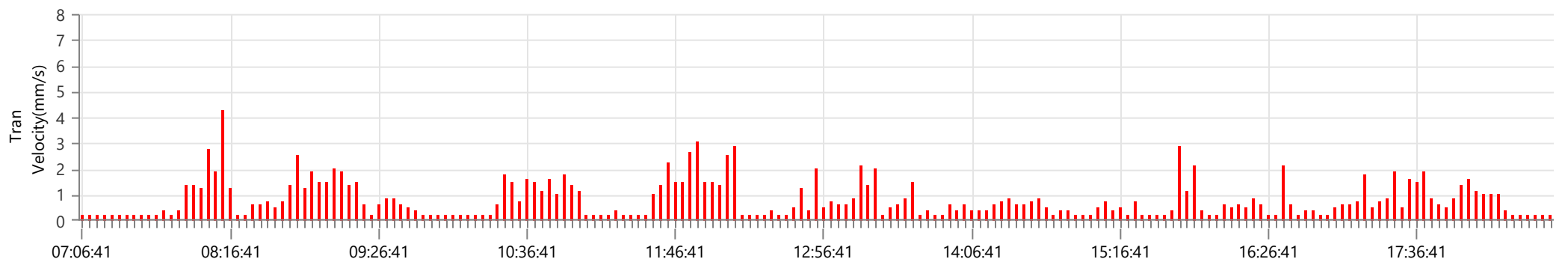
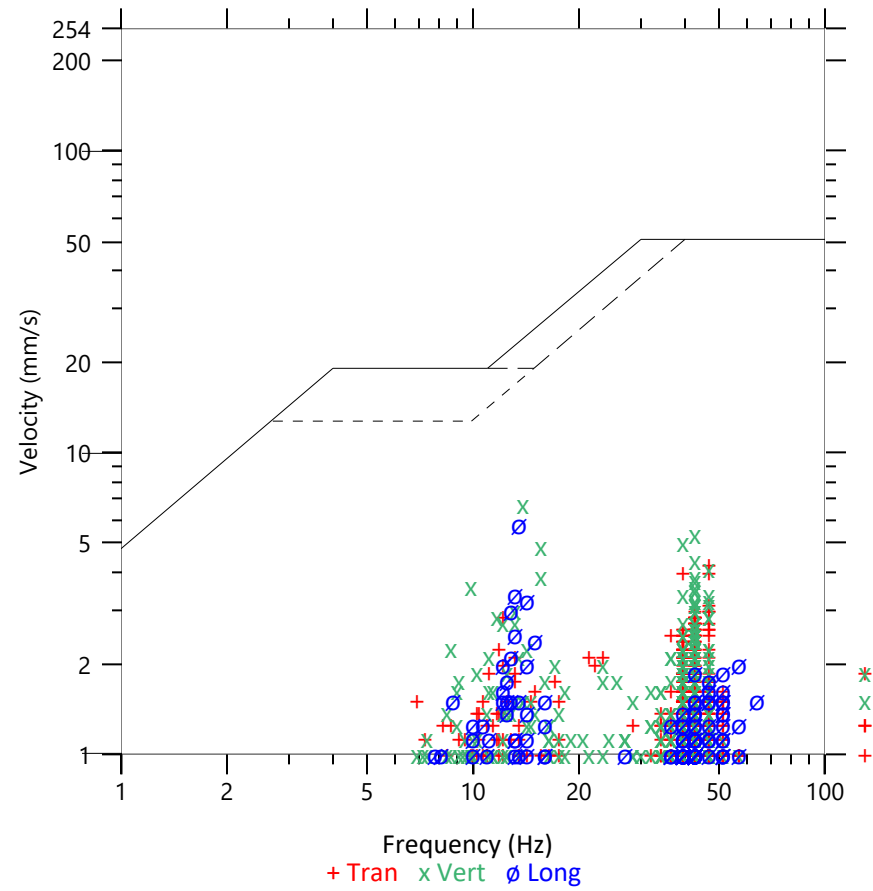
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.318 mm/s	6.858 mm/s	5.842 mm/s
Zero Crossing Frequency	46.5 Hz	13.8 Hz	13.5 Hz
Date	Nov 25, 2022	Nov 25, 2022	Nov 25, 2022
Time	08:15:51	15:51:51	15:51:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.9	4.2	3.8
Peak Vector Sum	7.758 mm/s at November 25, 2022 15:51:51		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 25, 2022 07:06:36
Finish November 25, 2022 18:43:03
Number of Intervals/Interval 8357.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by InstanTel
Event File Name BA19603_20221125070636.IDFH

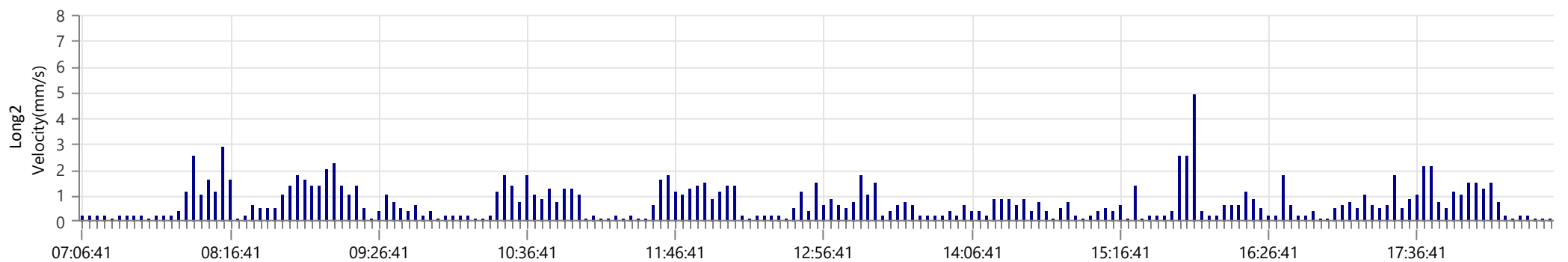
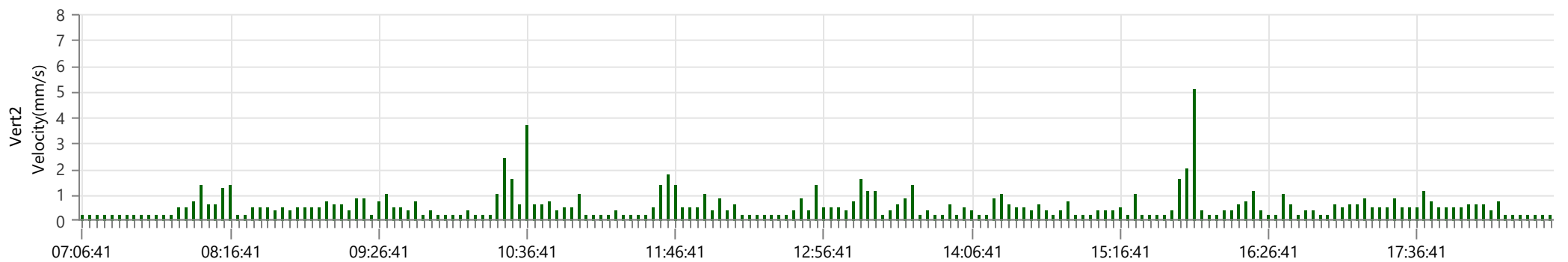
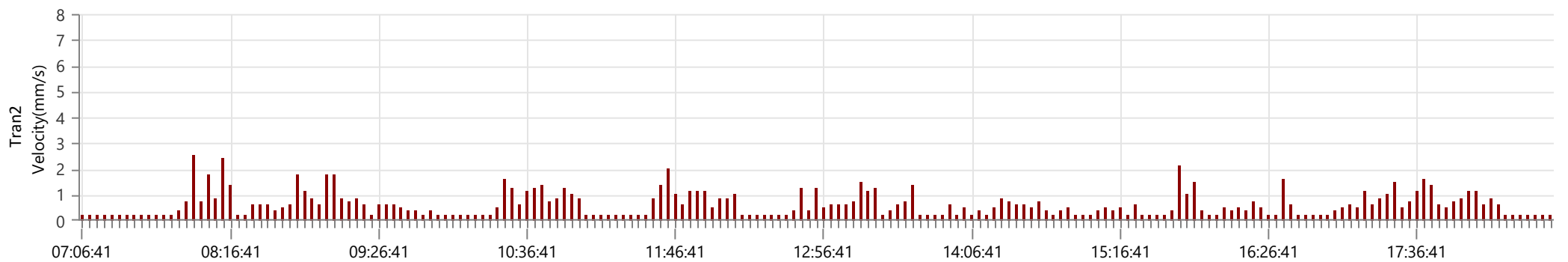
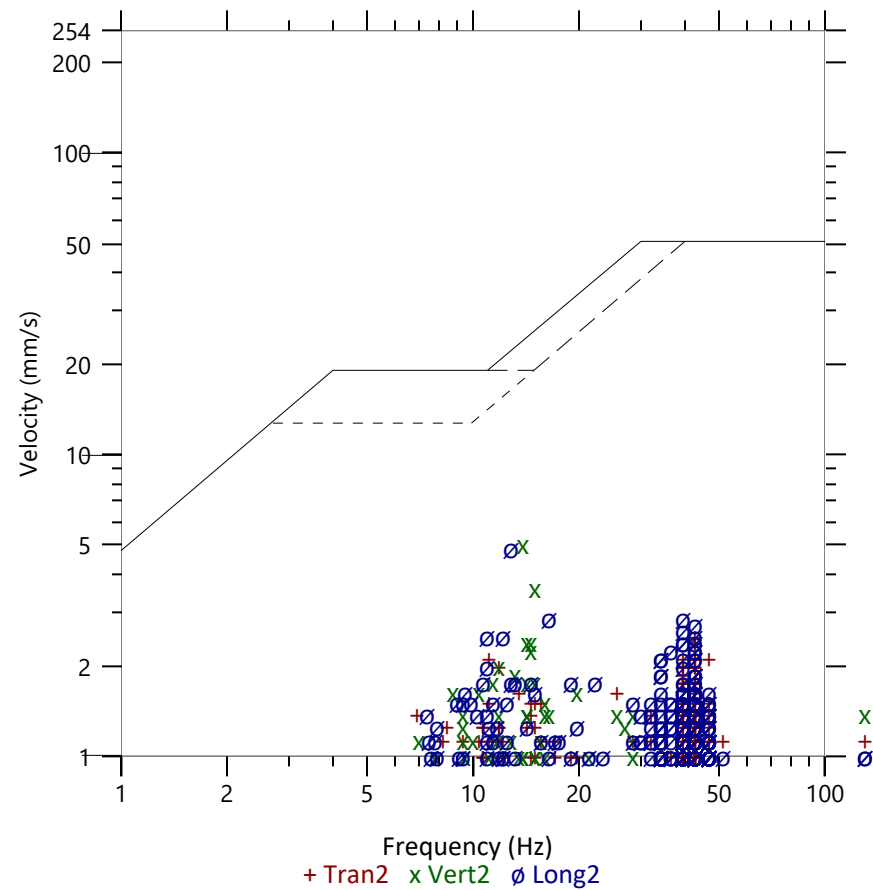
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.540 mm/s	5.080 mm/s	4.953 mm/s
Zero Crossing Frequency	42.7 Hz	13.8 Hz	12.8 Hz
Date	Nov 25, 2022	Nov 25, 2022	Nov 25, 2022
Time	08:02:16	15:51:51	15:51:51
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	4.3	3.9	4.0
Peak Vector Sum	5.730 mm/s at November 25, 2022 15:51:51		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 26, 2022 07:19:36
Finish November 26, 2022 13:14:38
Number of Intervals/Interval 4260.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221126071936.IDFH

Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

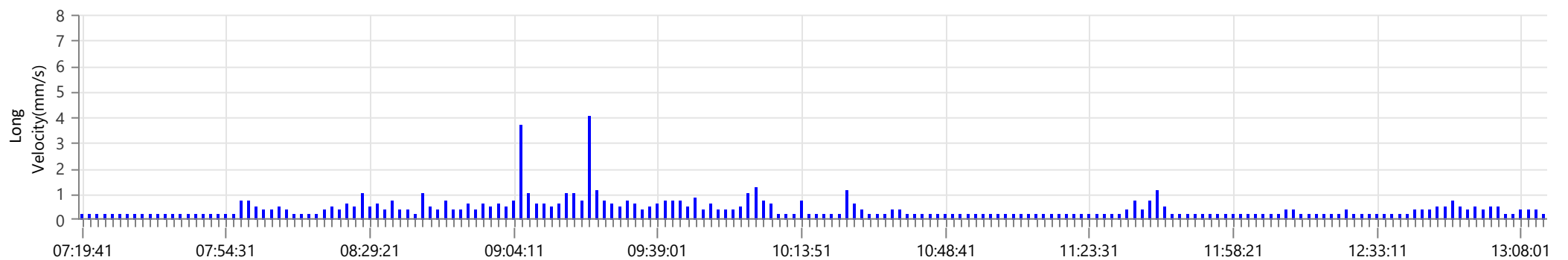
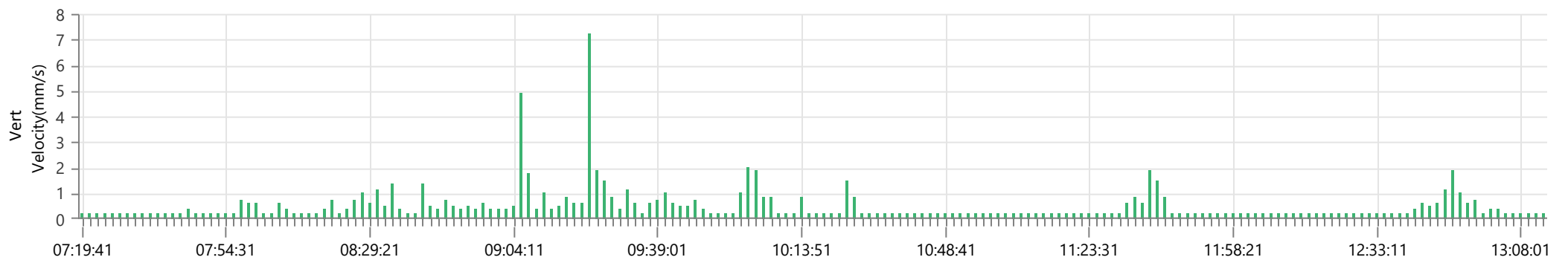
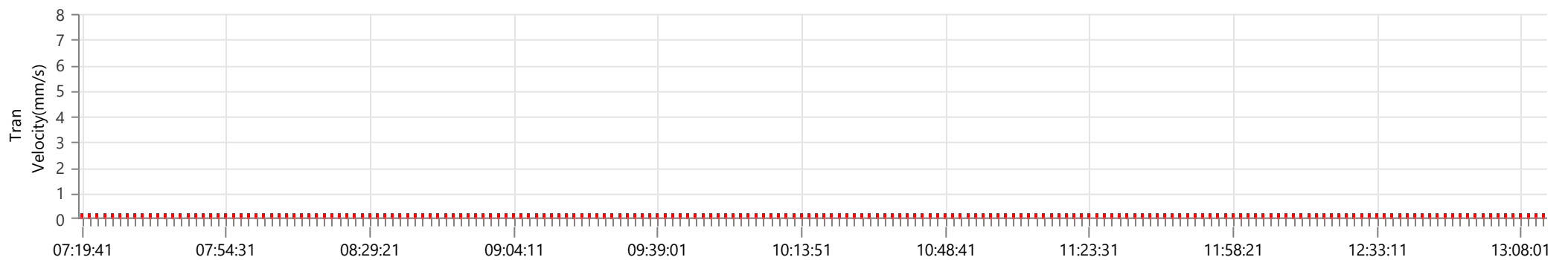
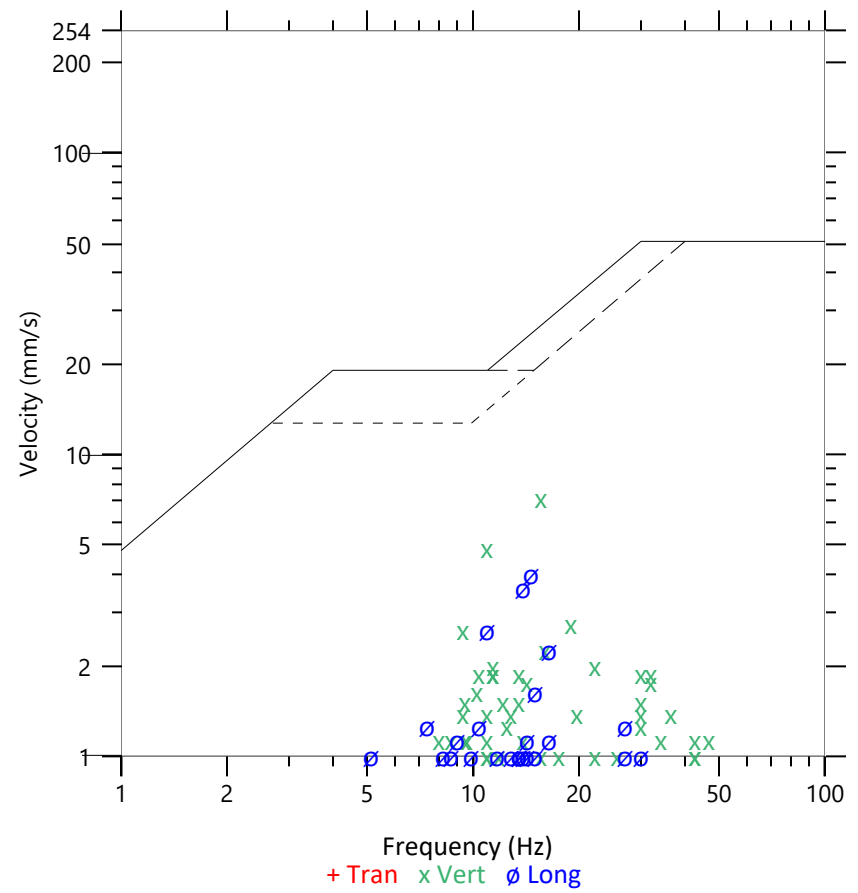
Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.254 mm/s	7.239 mm/s	4.064 mm/s
Zero Crossing Frequency	>100 Hz	15.5 Hz	14.6 Hz
Date	Nov 26, 2022	Nov 26, 2022	Nov 26, 2022
Time	07:19:41	09:22:36	09:22:36
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	15.8 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.6	3.7	3.8

Peak Vector Sum 7.253 mm/s at November 26, 2022 09:22:36

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 26, 2022 07:19:36
Finish November 26, 2022 13:14:38
Number of Intervals/Interval 4260.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19603
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration March 17, 2022 by Instantel
Event File Name BA19603_20221126071936.IDFH

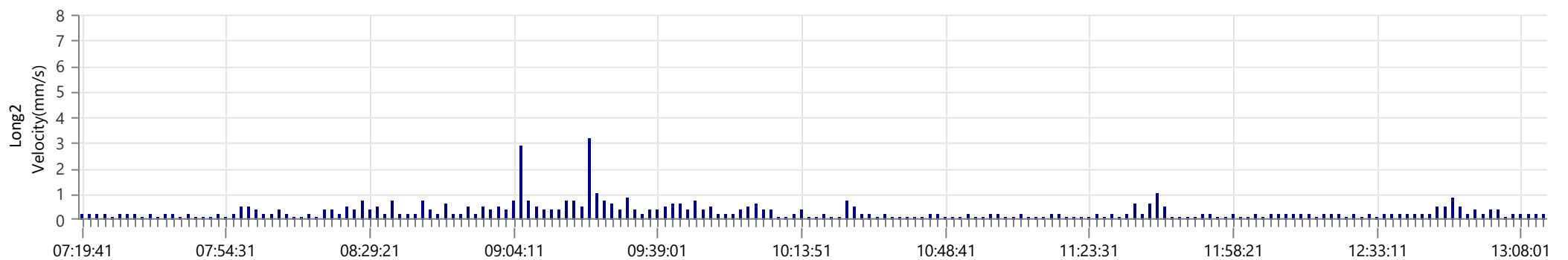
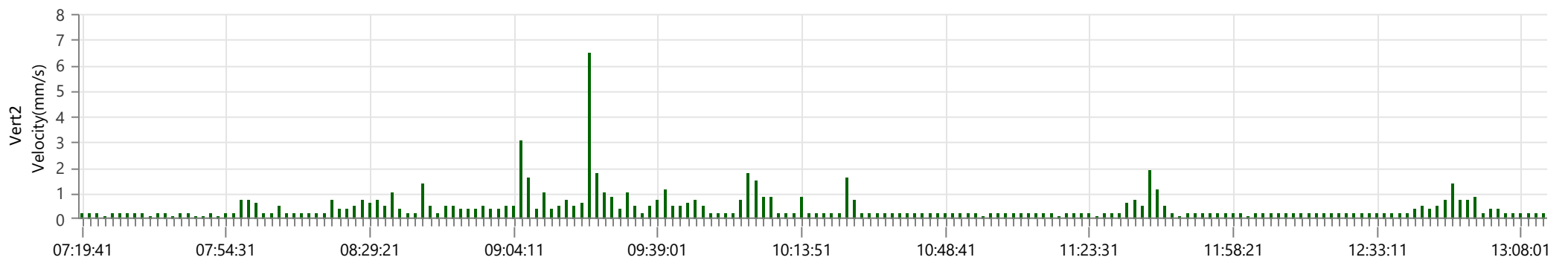
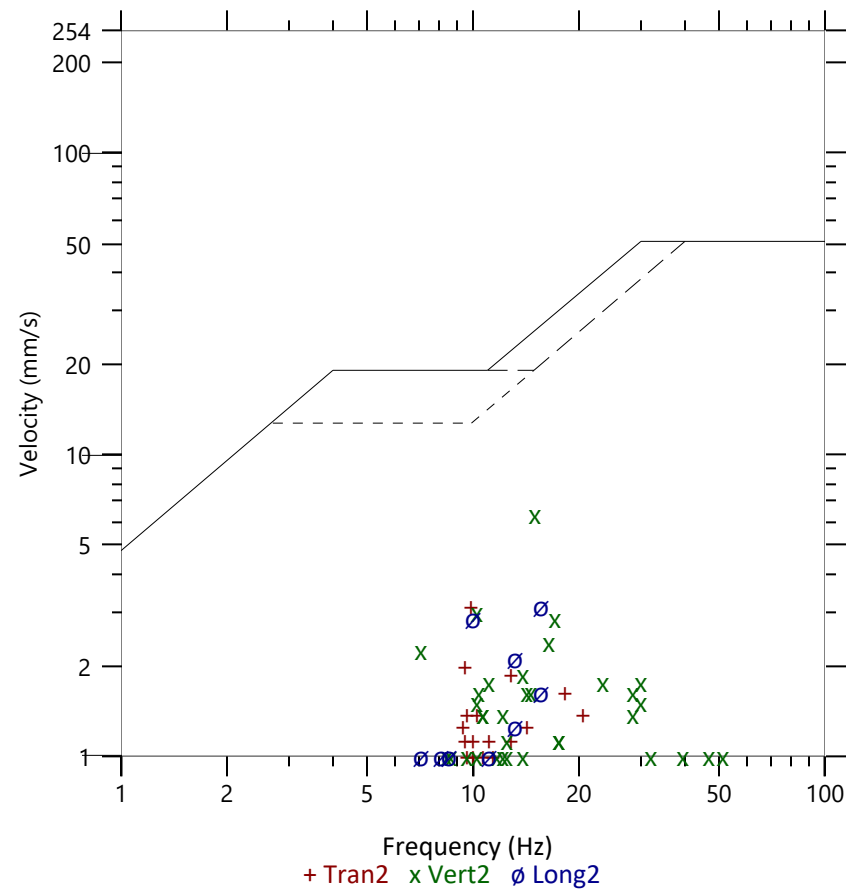
Notes
Job: RD7949
Client:
User Name: GB
General: rd7948

Extended Notes Near 14/16 Willow point

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.175 mm/s	6.477 mm/s	3.175 mm/s
Zero Crossing Frequency	9.8 Hz	15.1 Hz	15.5 Hz
Date	Nov 26, 2022	Nov 26, 2022	Nov 26, 2022
Time	09:22:36	09:22:36	09:22:36
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.5 Hz	7.7 Hz
Overswing Ratio	3.5	3.4	3.8
Peak Vector Sum	6.678 mm/s at November 26, 2022 09:22:36		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 09:13:10
Finish October 3, 2022 19:33:57
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221003091310.IDFH

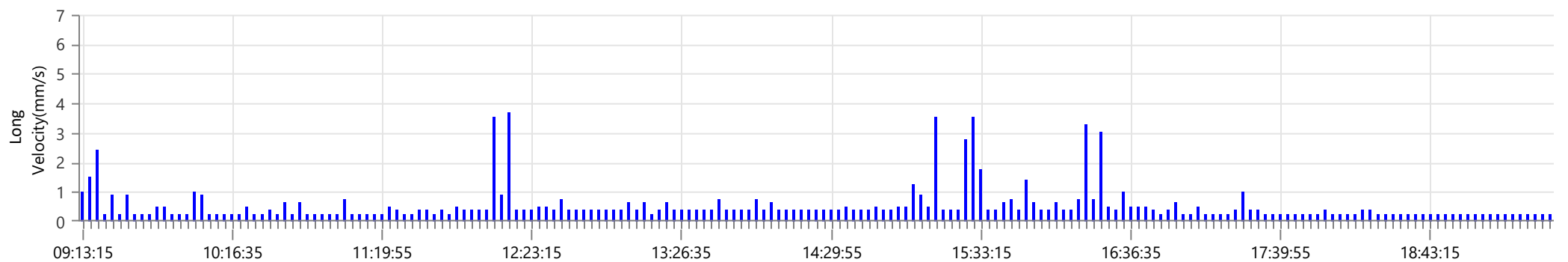
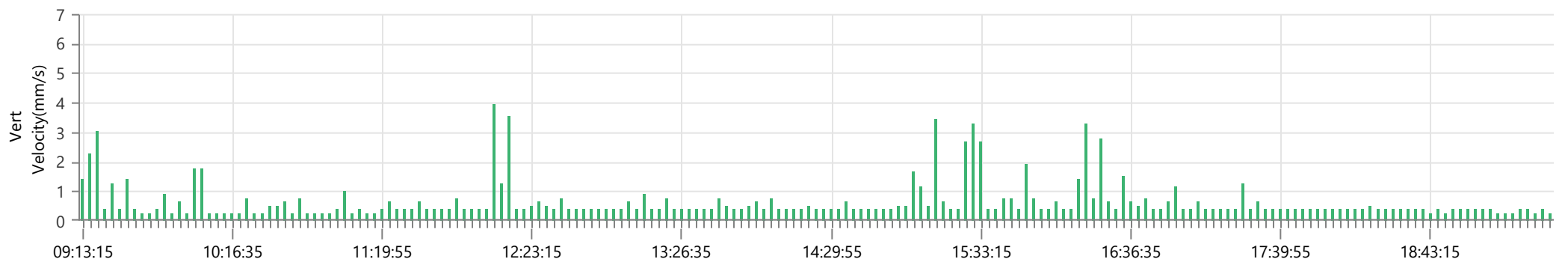
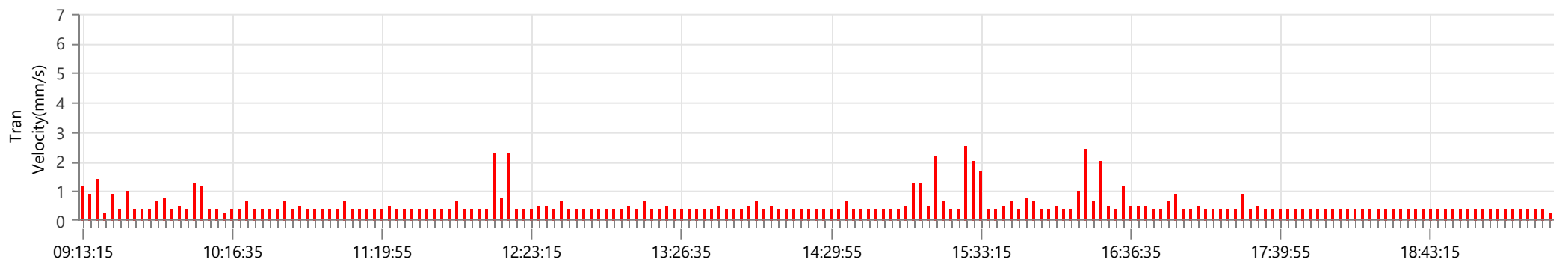
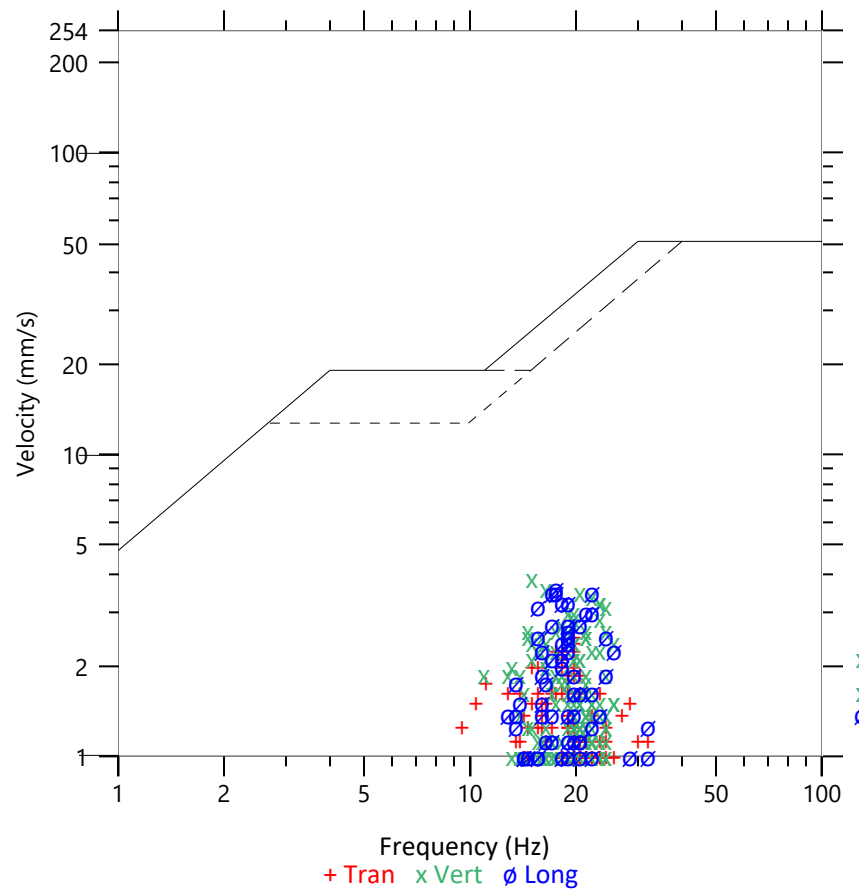
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.540 mm/s	3.937 mm/s	3.683 mm/s
Zero Crossing Frequency	19.7 Hz	15.1 Hz	17.7 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	15:29:55	12:09:45	12:14:00
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.2	4.1
Peak Vector Sum	4.322 mm/s at October 3, 2022 15:14:50		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 09:13:10
Finish October 3, 2022 19:33:57
Number of Intervals/Interval 7449.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221003091310.IDFH

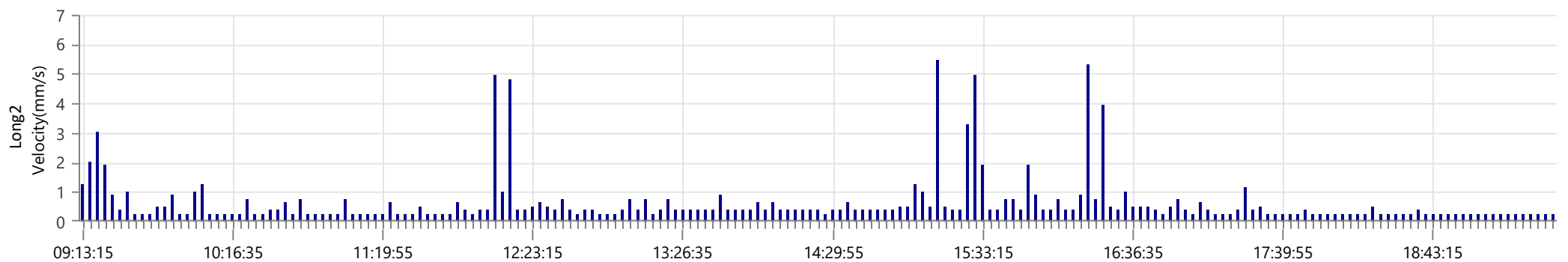
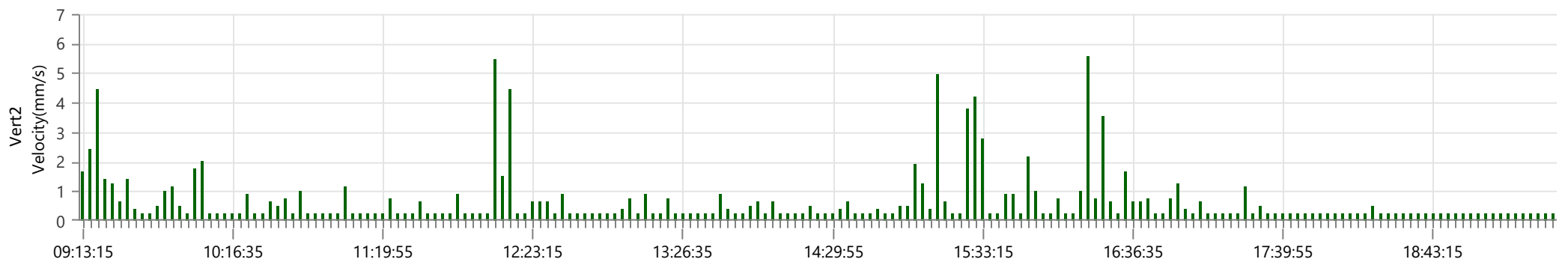
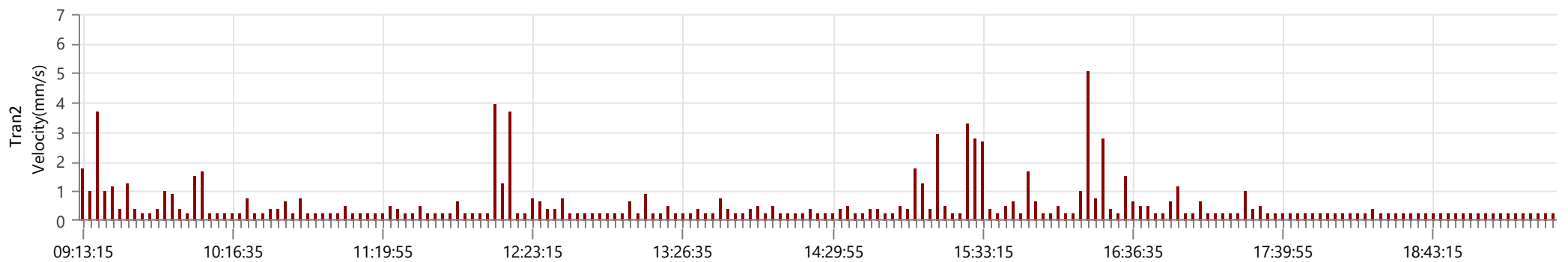
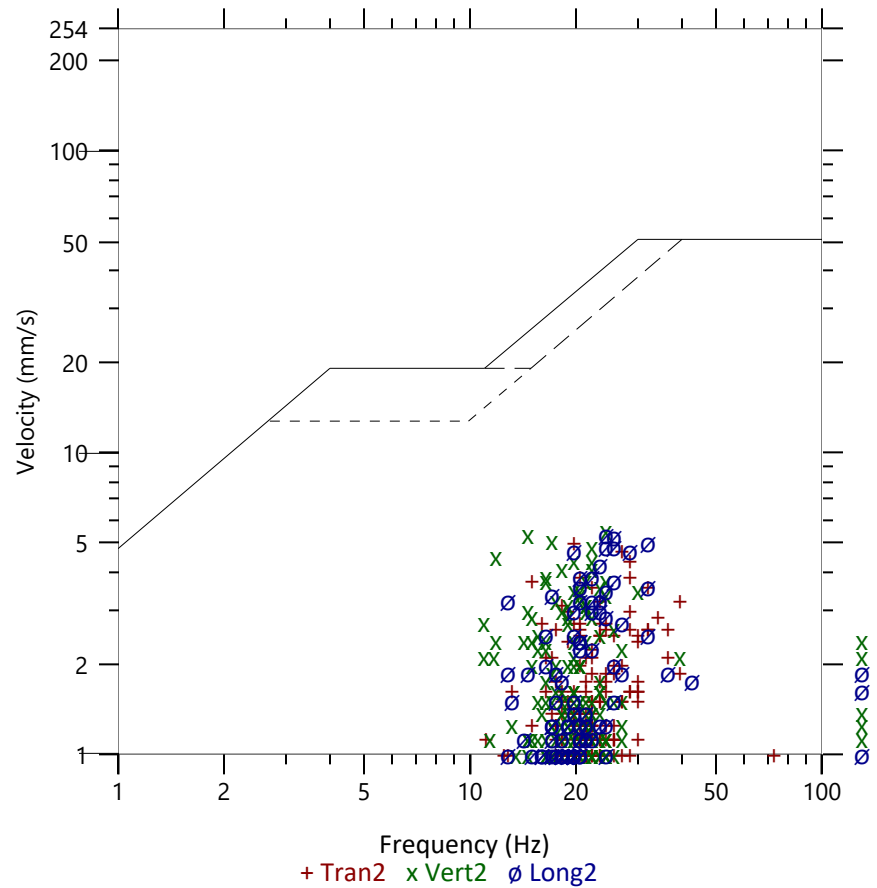
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	5.080 mm/s	5.588 mm/s	5.461 mm/s
Zero Crossing Frequency	19.7 Hz	24.4 Hz	24.4 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	16:20:15	16:20:10	15:14:50
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.0	3.7	3.9
Peak Vector Sum	6.539 mm/s at October 3, 2022 12:09:45		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 4, 2022 08:26:11
Finish October 4, 2022 19:34:41
Number of Intervals/Interval 8021.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration April 4, 2022 by InstanTel
Event File Name BA19604_20221004082611.IDFH

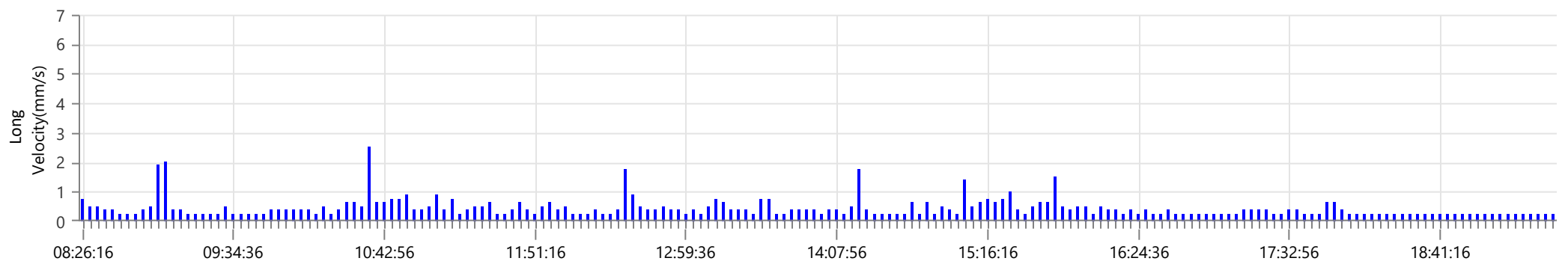
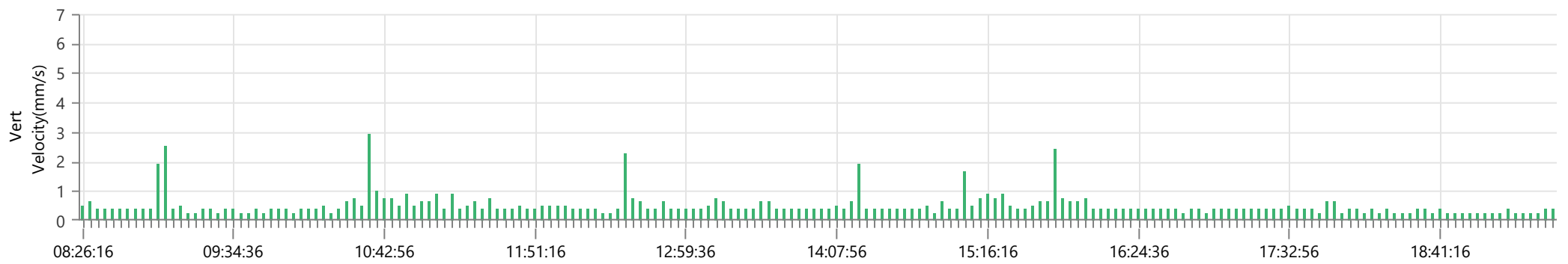
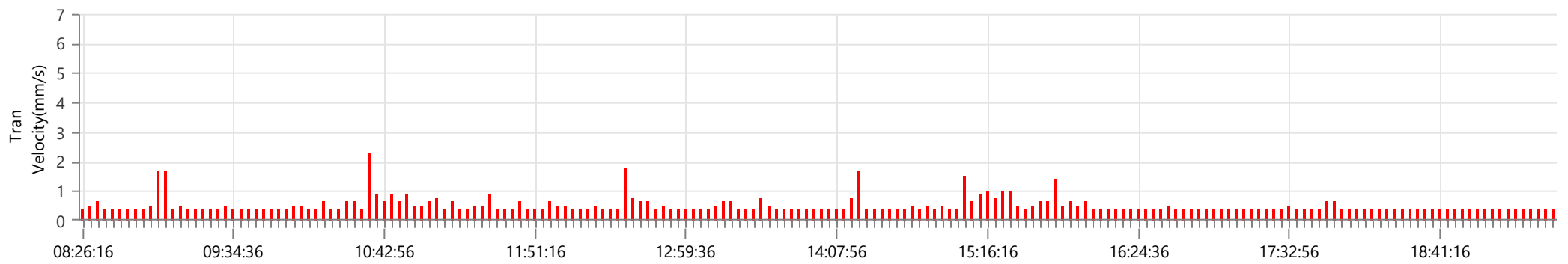
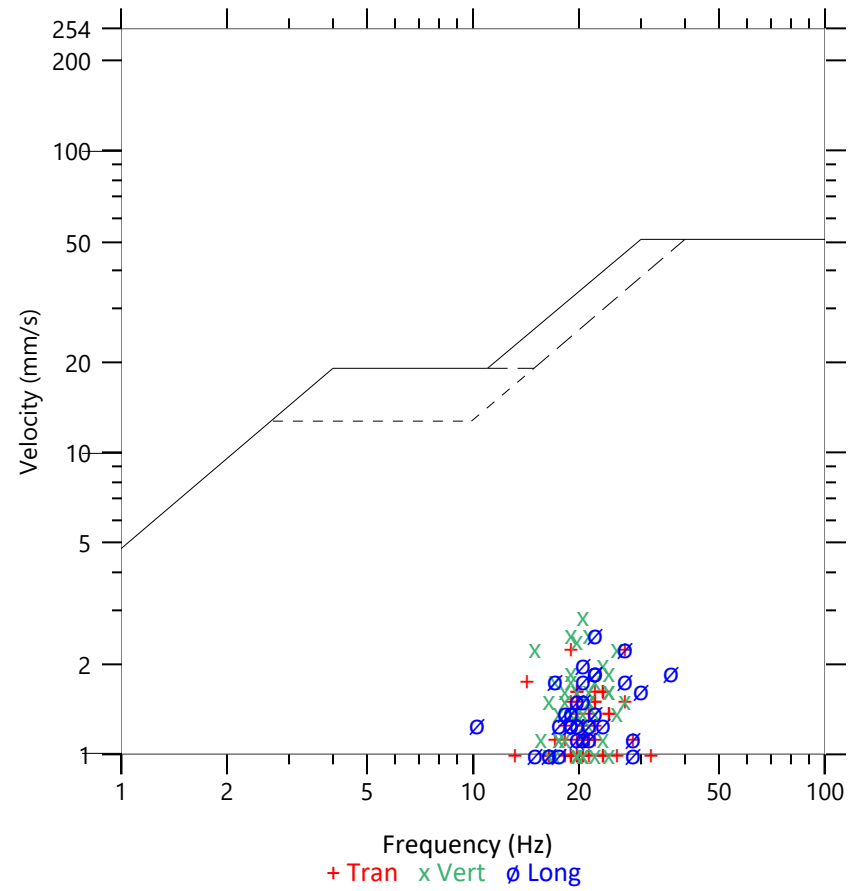
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.286 mm/s	2.921 mm/s	2.540 mm/s
Zero Crossing Frequency	19.0 Hz	20.5 Hz	22.3 Hz
Date	Oct 4, 2022	Oct 4, 2022	Oct 4, 2022
Time	10:38:01	10:38:01	10:38:01
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.3 Hz
Overswing Ratio	3.8	4.2	4.1
Peak Vector Sum	3.503 mm/s at October 4, 2022 10:38:01		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 4, 2022 08:26:11
Finish October 4, 2022 19:34:41
Number of Intervals/Interval 8021.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221004082611.IDFH

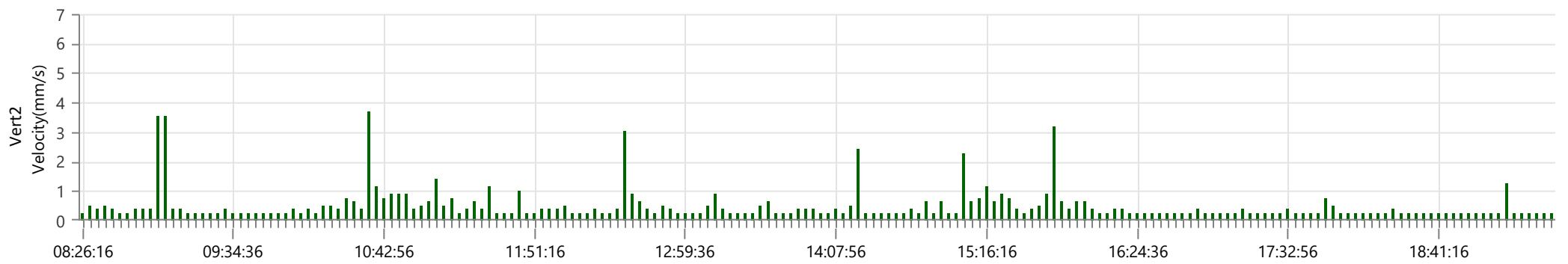
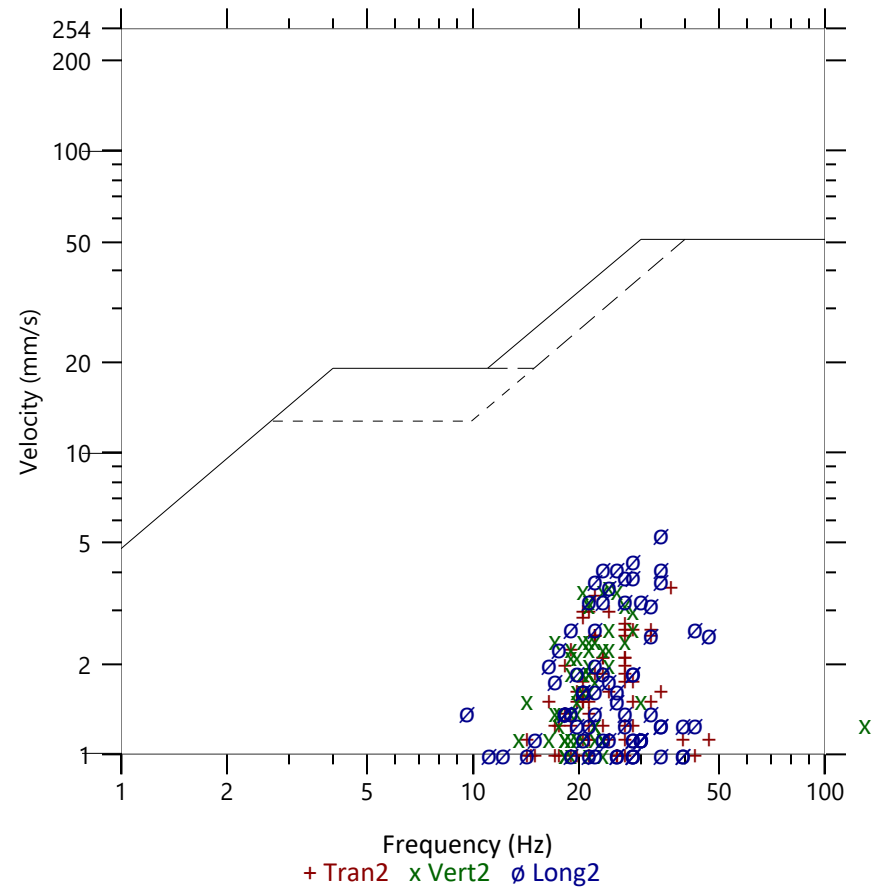
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.683 mm/s	3.683 mm/s	5.461 mm/s
Zero Crossing Frequency	36.6 Hz	24.4 Hz	34.1 Hz
Date	Oct 4, 2022	Oct 4, 2022	Oct 4, 2022
Time	10:38:01	10:38:01	10:38:01
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.4 Hz	7.6 Hz	8.1 Hz
Overswing Ratio	4.1	3.7	3.8
Peak Vector Sum	6.450 mm/s at October 4, 2022 10:38:01		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 5, 2022 08:03:18
Finish October 5, 2022 19:01:00
Number of Intervals/Interval 7892.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221005080318.IDFH

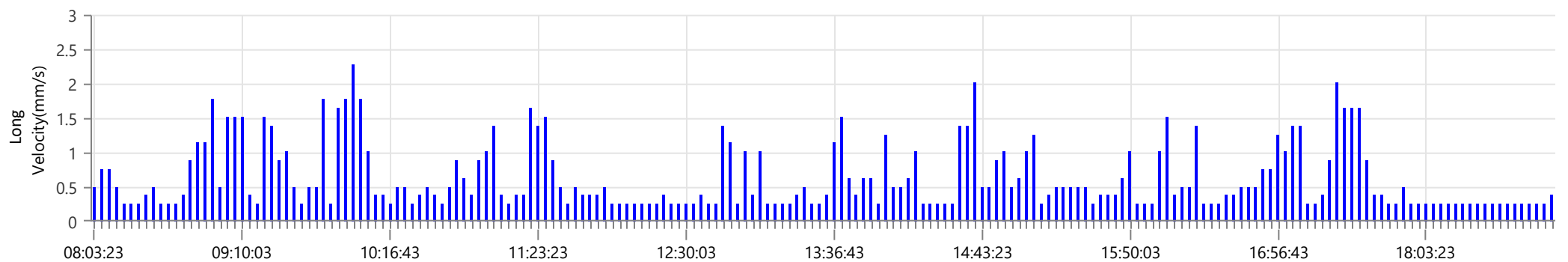
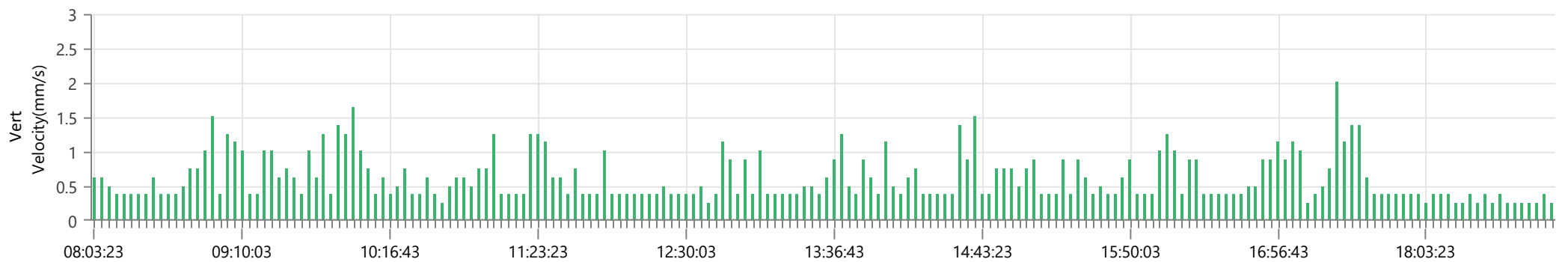
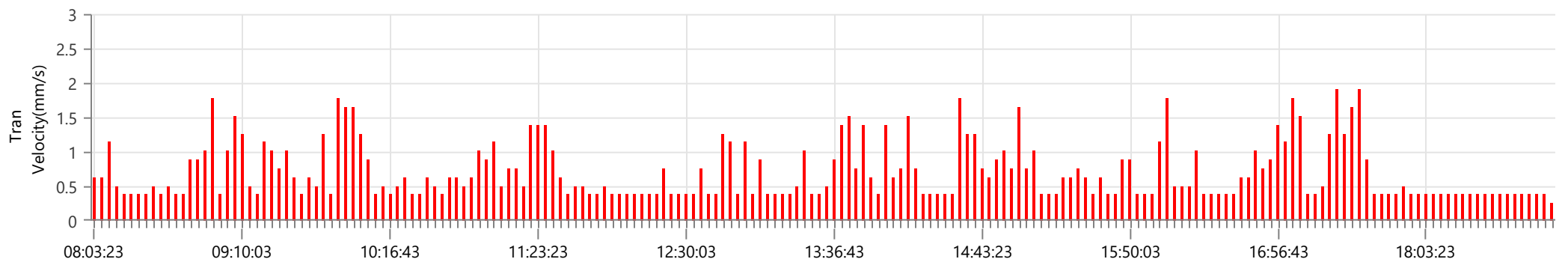
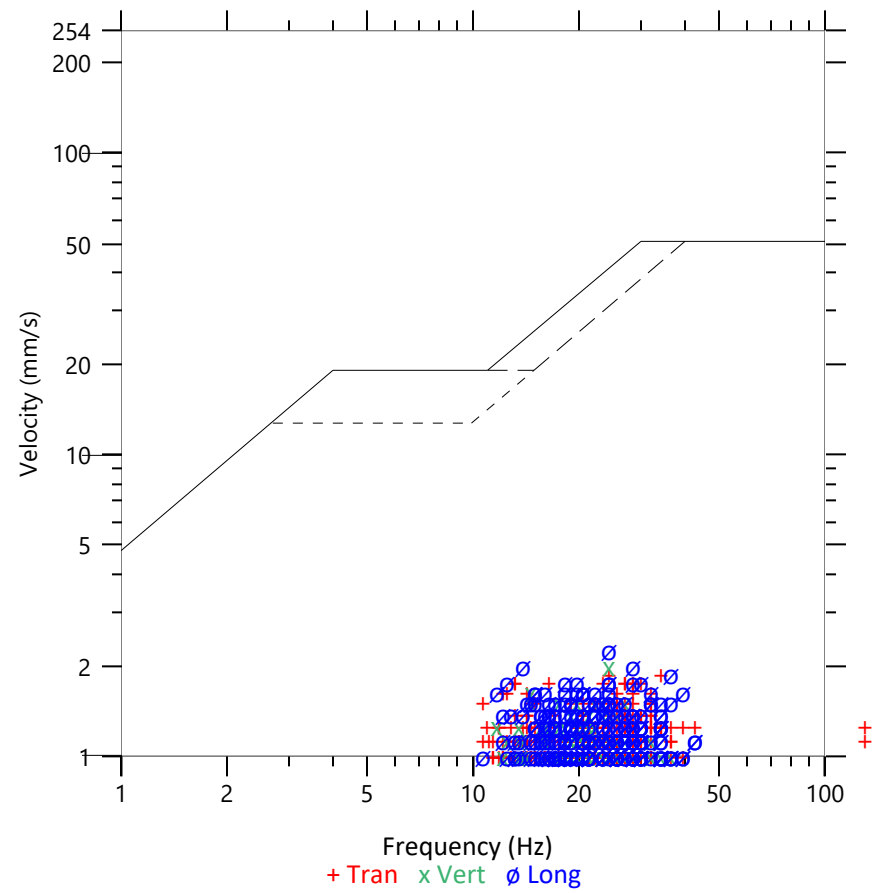
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.905 mm/s	2.032 mm/s	2.286 mm/s
Zero Crossing Frequency	34.1 Hz	24.4 Hz	24.4 Hz
Date	Oct 5, 2022	Oct 5, 2022	Oct 5, 2022
Time	17:24:28	17:24:18	10:01:23
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	8.2 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.6	4.3	4.1
Peak Vector Sum	2.550 mm/s at October 5, 2022 17:24:18		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 5, 2022 08:03:18
Finish October 5, 2022 19:01:00
Number of Intervals/Interval 7892.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221005080318.IDFH

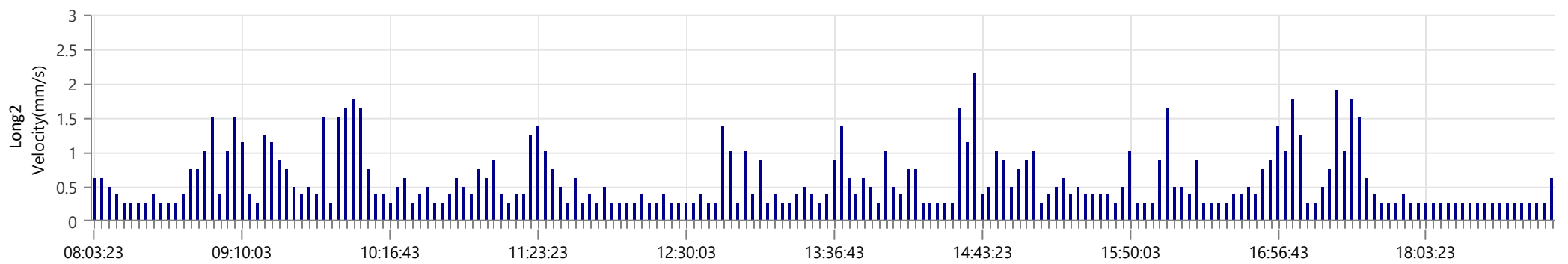
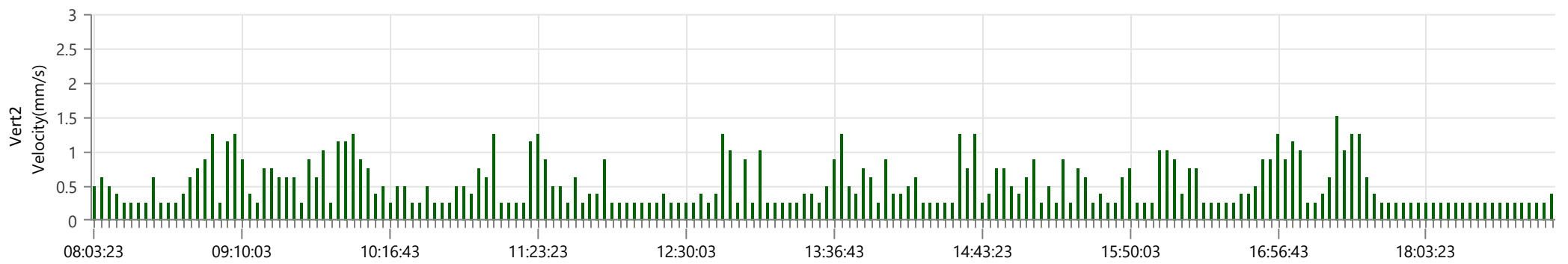
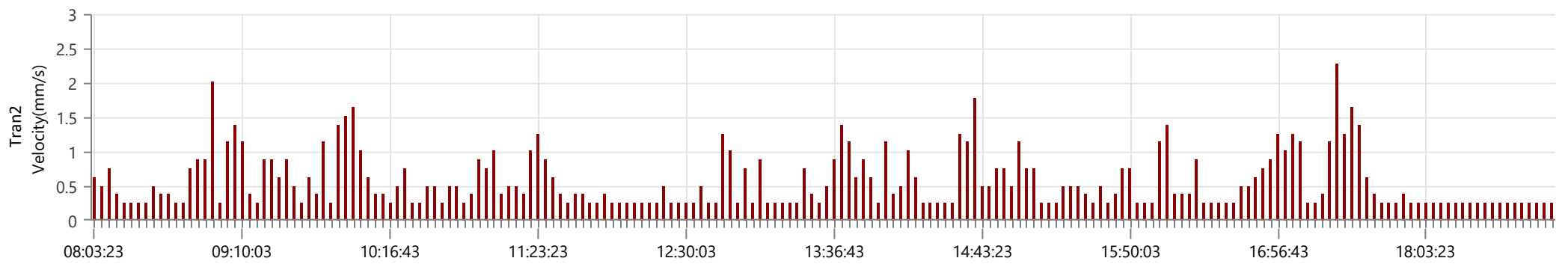
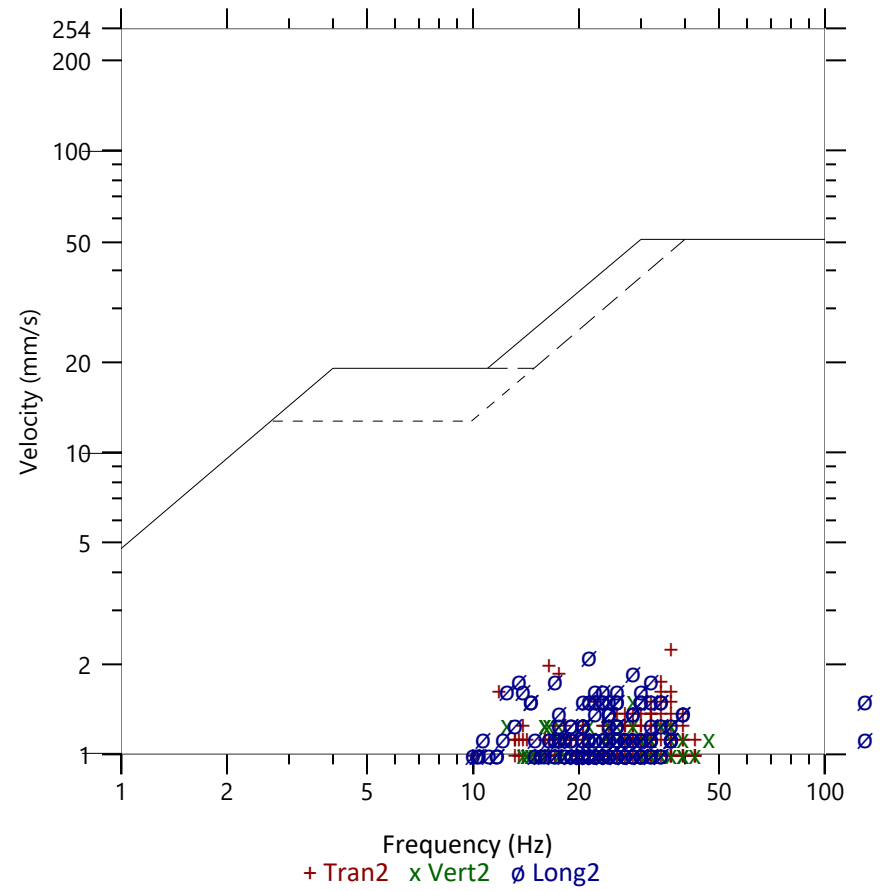
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.286 mm/s	1.524 mm/s	2.159 mm/s
Zero Crossing Frequency	36.6 Hz	28.4 Hz	21.3 Hz
Date	Oct 5, 2022	Oct 5, 2022	Oct 5, 2022
Time	17:24:23	17:24:28	14:41:08
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.1	3.8	4.0
Peak Vector Sum	2.624 mm/s at October 5, 2022 17:24:28		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 6, 2022 07:40:35
Finish October 6, 2022 19:36:34
Number of Intervals/Interval 8591.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221006074035.IDFH

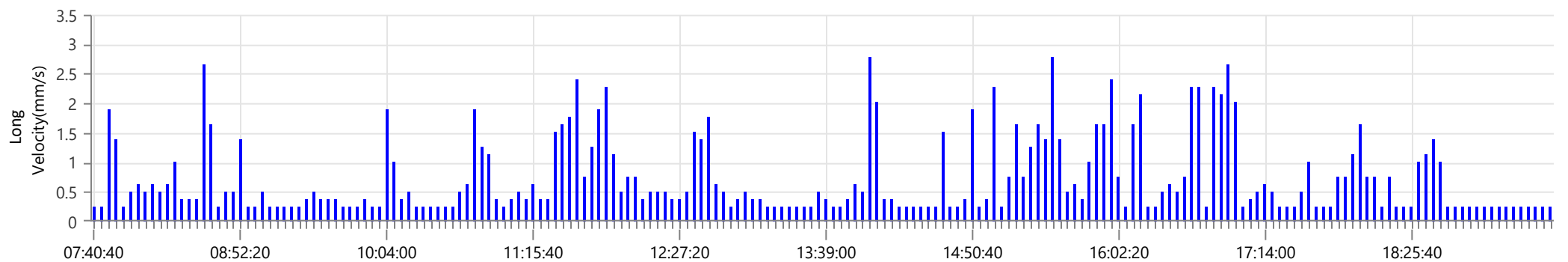
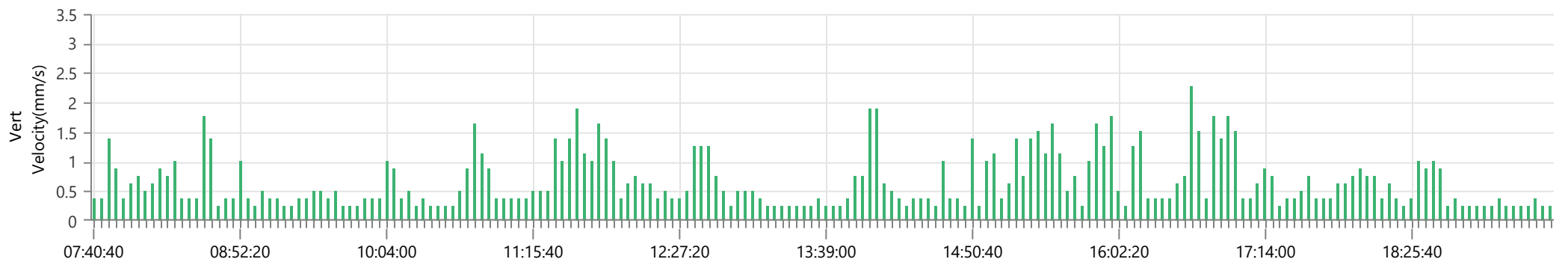
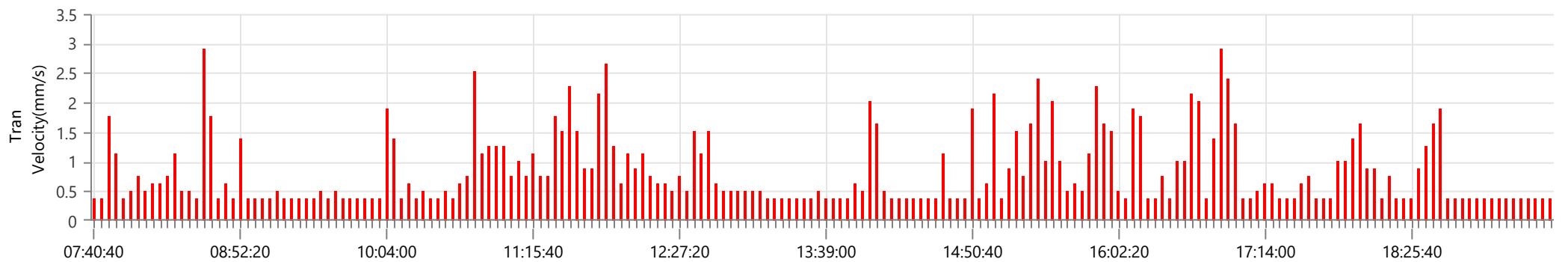
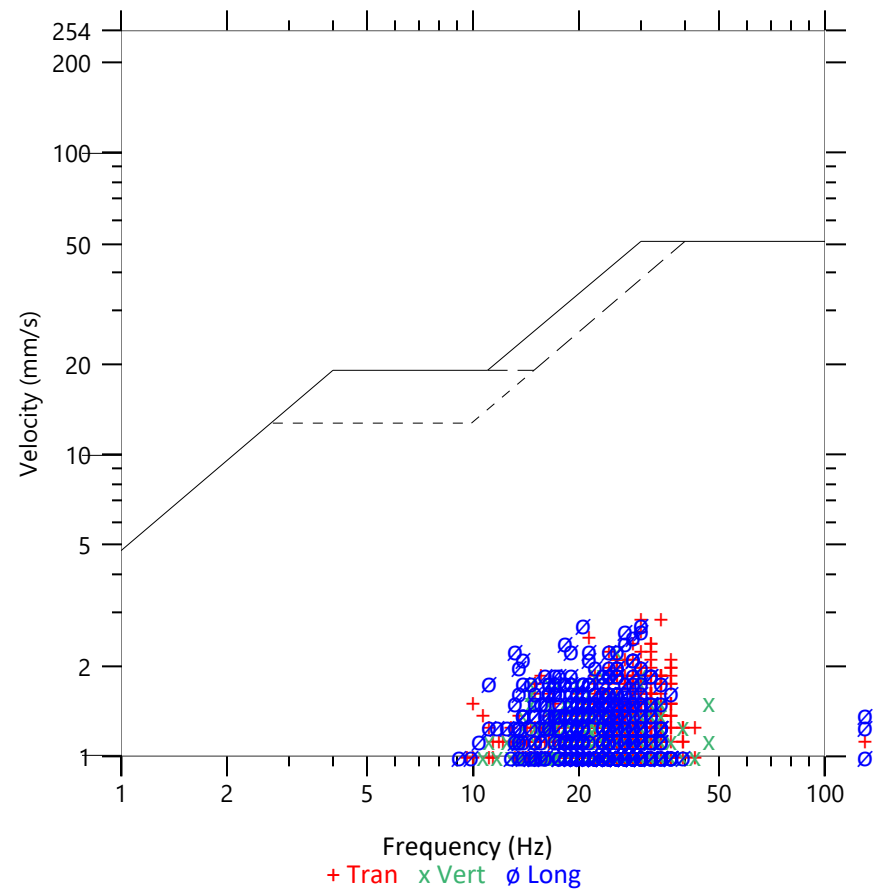
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.921 mm/s	2.286 mm/s	2.794 mm/s
Zero Crossing Frequency	34.1 Hz	25.6 Hz	20.5 Hz
Date	Oct 6, 2022	Oct 6, 2022	Oct 6, 2022
Time	08:36:45	16:39:55	14:00:45
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	3.9	3.7	3.8
Peak Vector Sum	3.215 mm/s at October 6, 2022 16:56:20		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 6, 2022 07:40:35
Finish October 6, 2022 19:36:34
Number of Intervals/Interval 8591.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221006074035.IDFH

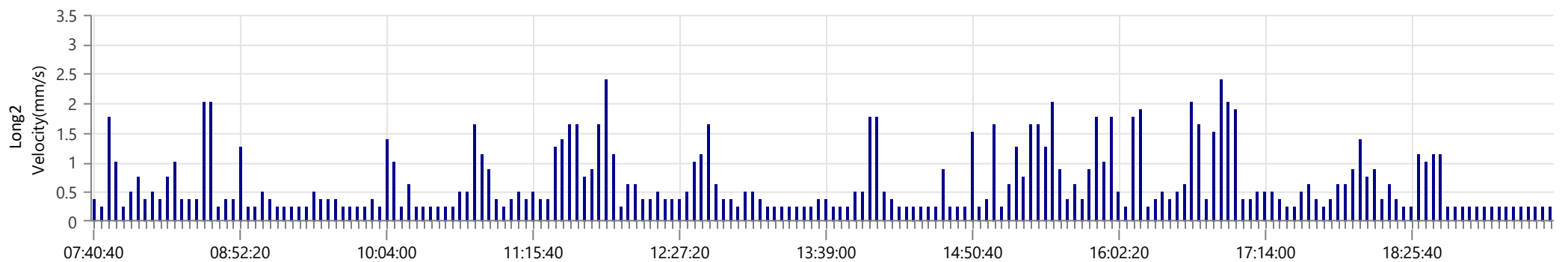
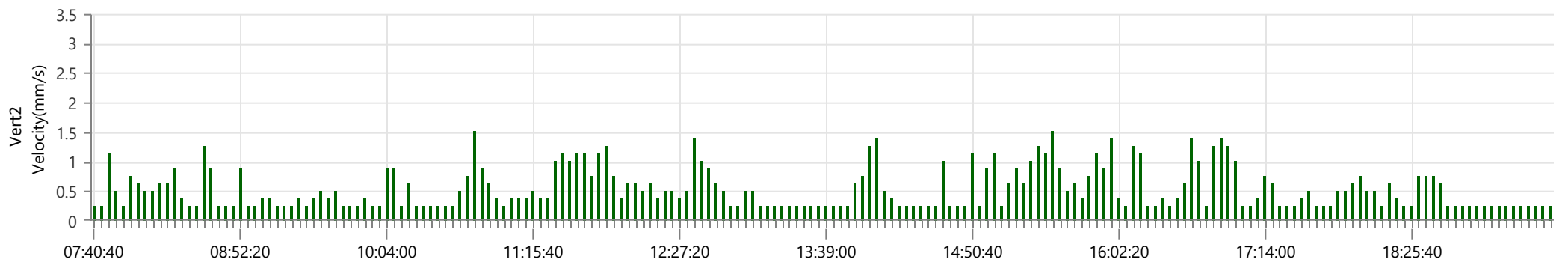
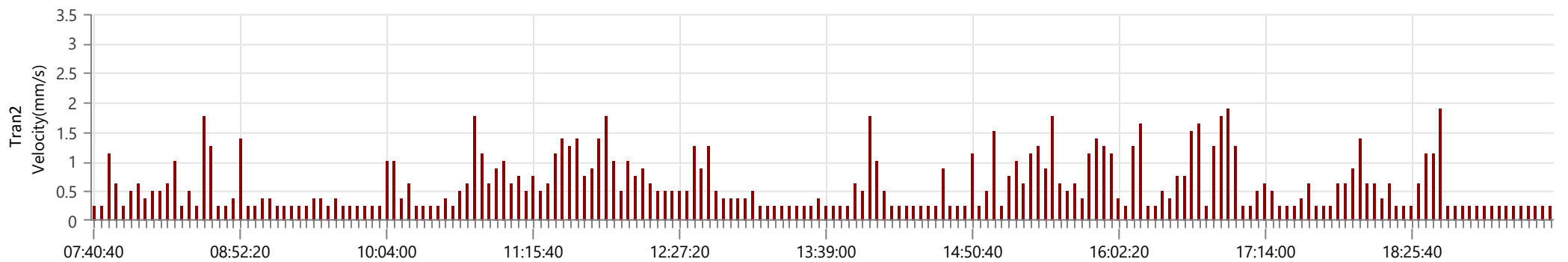
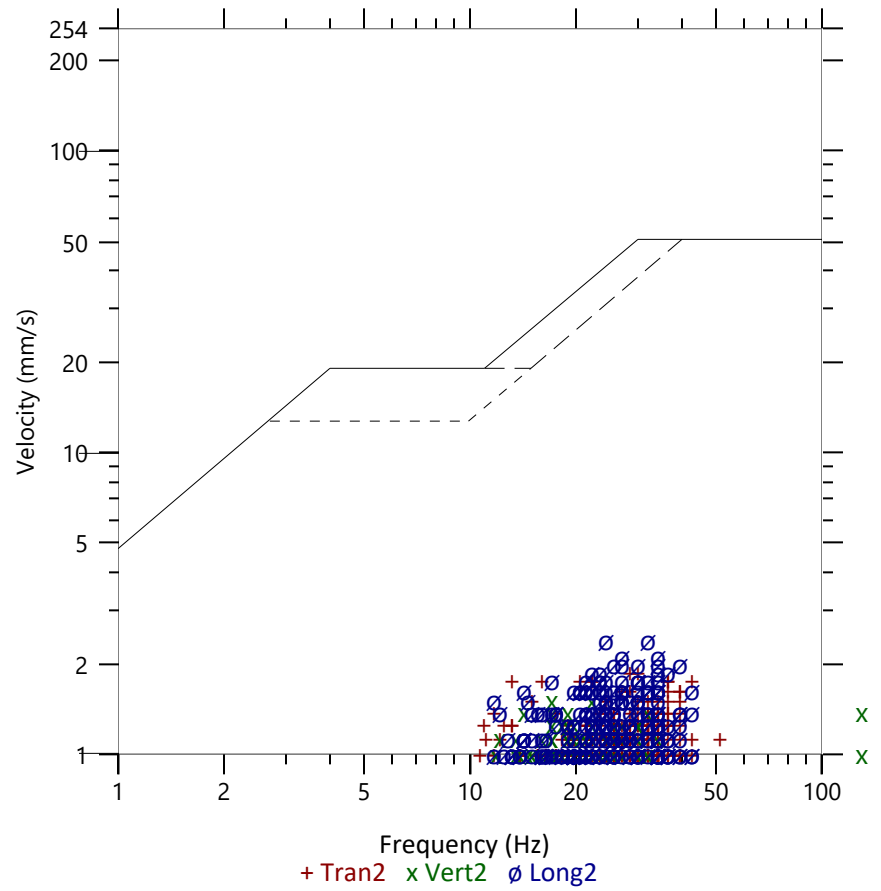
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	1.524 mm/s	2.413 mm/s
Zero Crossing Frequency	30.1 Hz	22.3 Hz	24.4 Hz
Date	Oct 6, 2022	Oct 6, 2022	Oct 6, 2022
Time	16:56:20	10:48:55	11:53:25
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.9	4.3	4.2
Peak Vector Sum	2.744 mm/s at October 6, 2022 11:53:25		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 7, 2022 08:35:34
Finish October 7, 2022 18:49:03
Number of Intervals/Interval 7361.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221007083534.IDFH

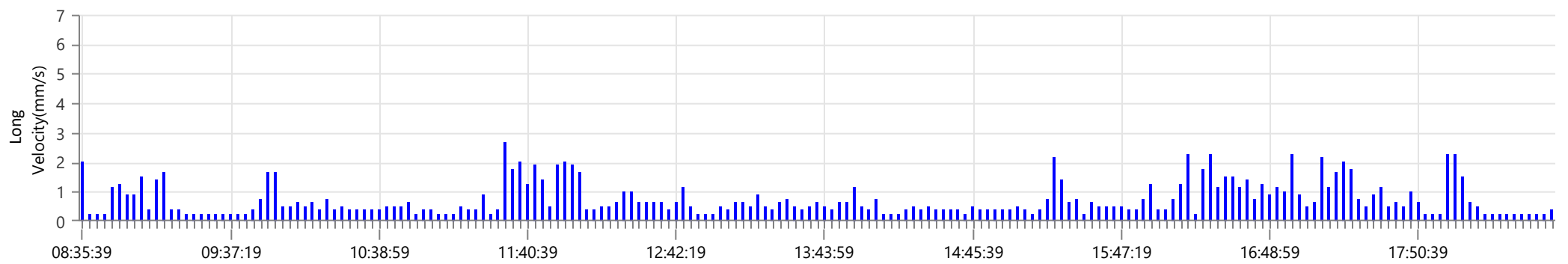
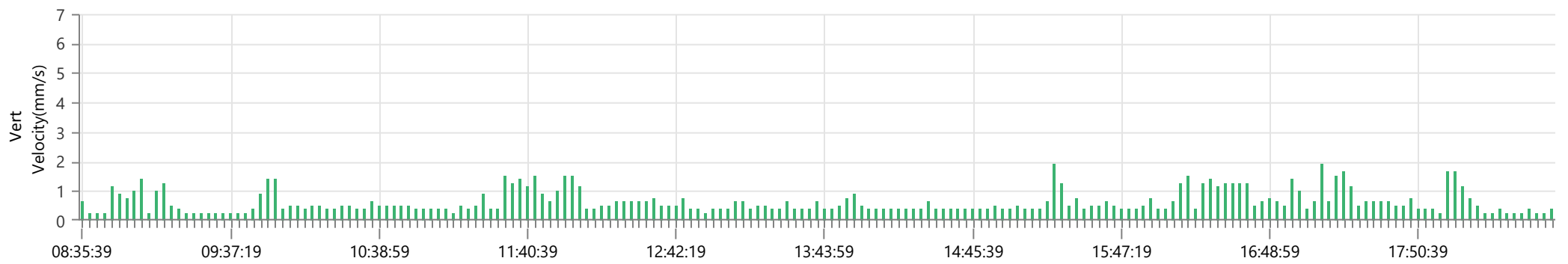
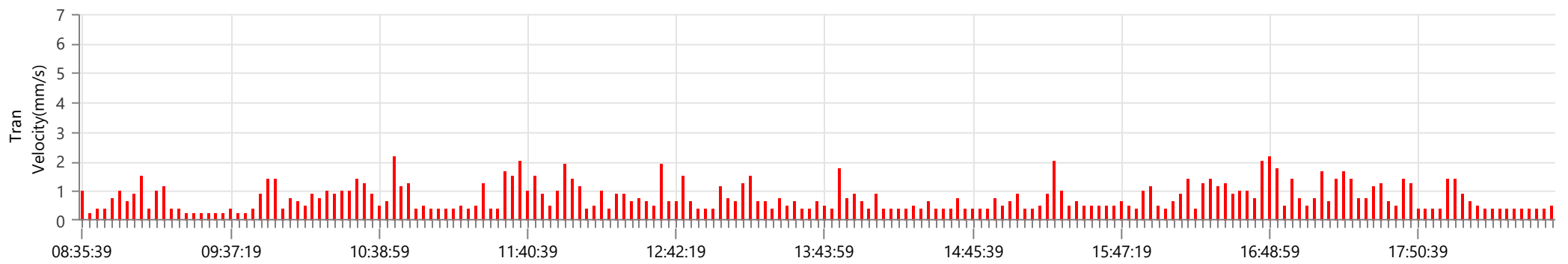
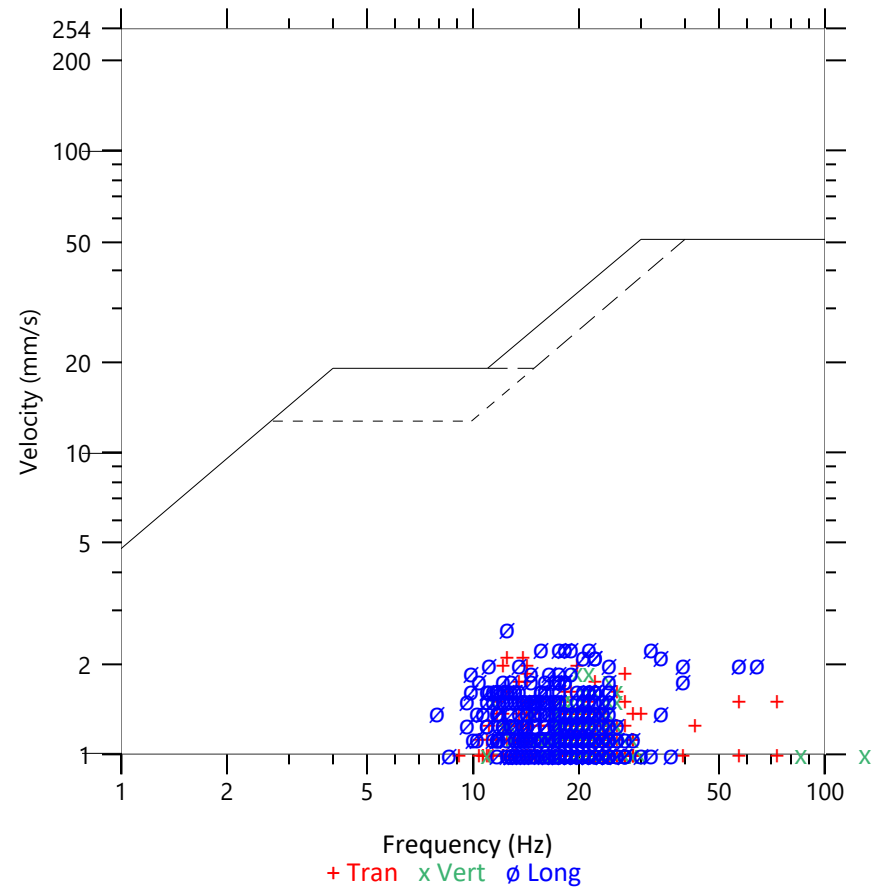
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.159 mm/s	1.905 mm/s	2.667 mm/s
Zero Crossing Frequency	12.5 Hz	19.7 Hz	12.5 Hz
Date	Oct 7, 2022	Oct 7, 2022	Oct 7, 2022
Time	10:48:09	15:20:49	11:34:24
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.8	4.3	4.1
Peak Vector Sum	2.851 mm/s at October 7, 2022 11:34:24		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 7, 2022 08:35:34
Finish October 7, 2022 18:49:03
Number of Intervals/Interval 7361.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221007083534.IDFH

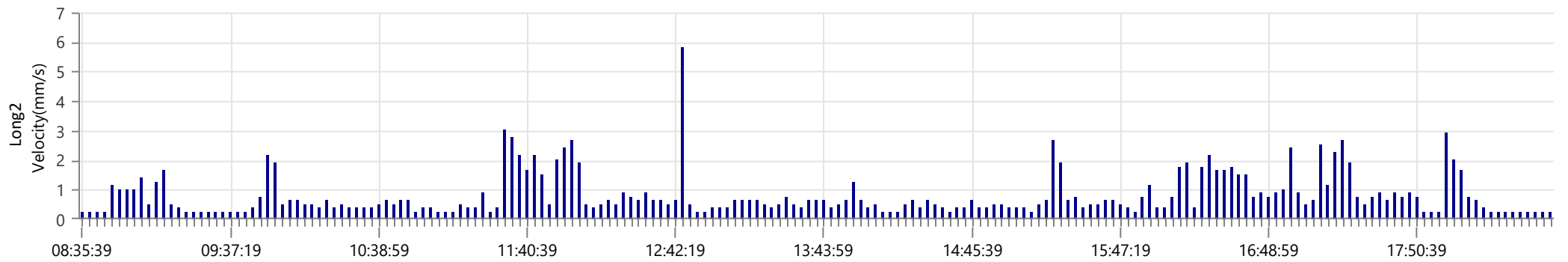
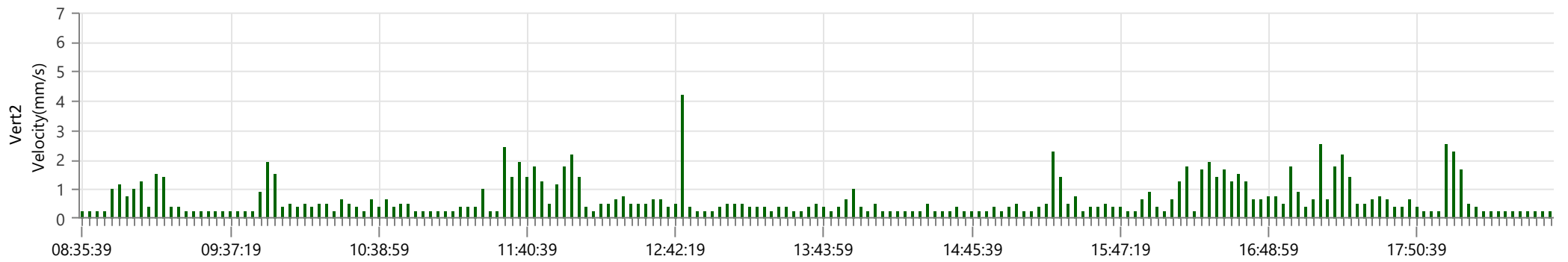
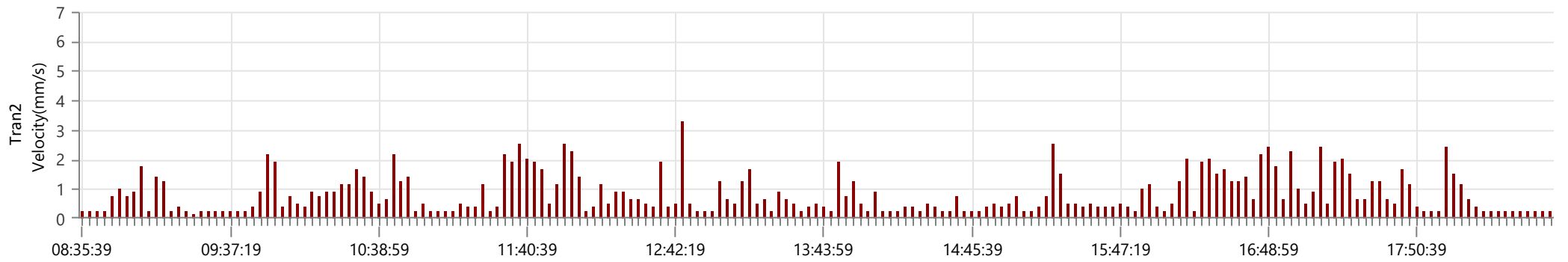
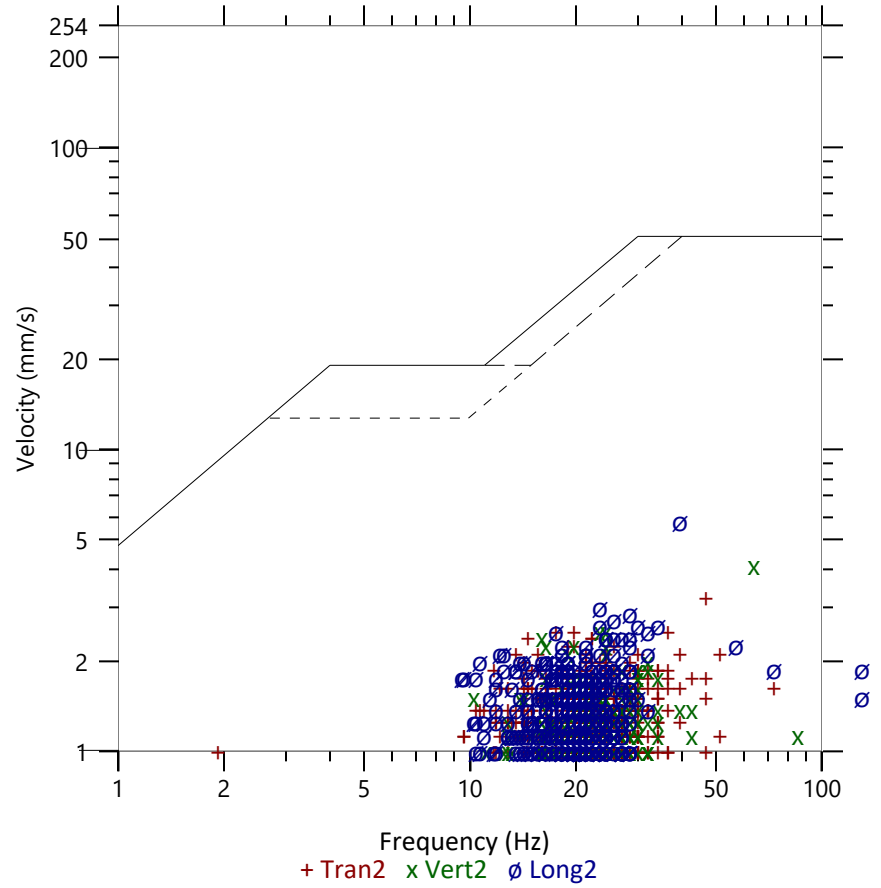
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.302 mm/s	4.191 mm/s	5.842 mm/s
Zero Crossing Frequency	46.5 Hz	64.0 Hz	39.4 Hz
Date	Oct 7, 2022	Oct 7, 2022	Oct 7, 2022
Time	12:45:49	12:45:49	12:45:49
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.0	3.8	3.9
Peak Vector Sum	6.177 mm/s at October 7, 2022 12:45:49		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 11, 2022 10:06:19
Finish October 11, 2022 18:50:05
Number of Intervals/Interval 6285.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221011100619.IDFH

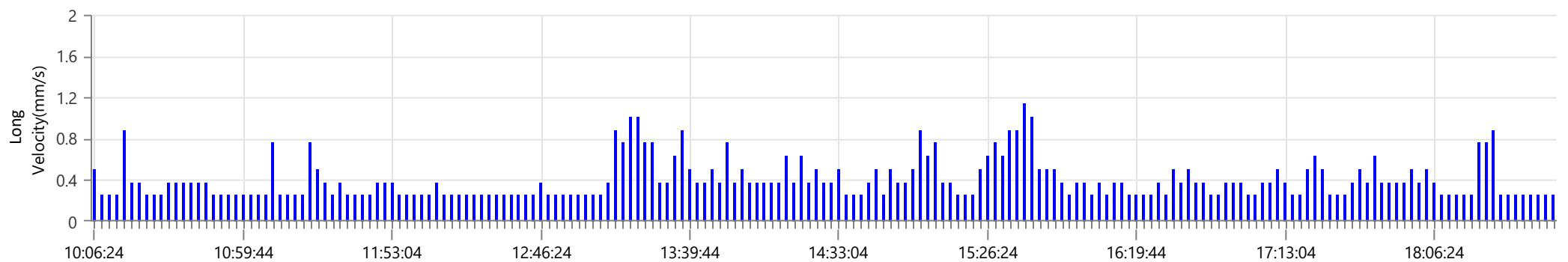
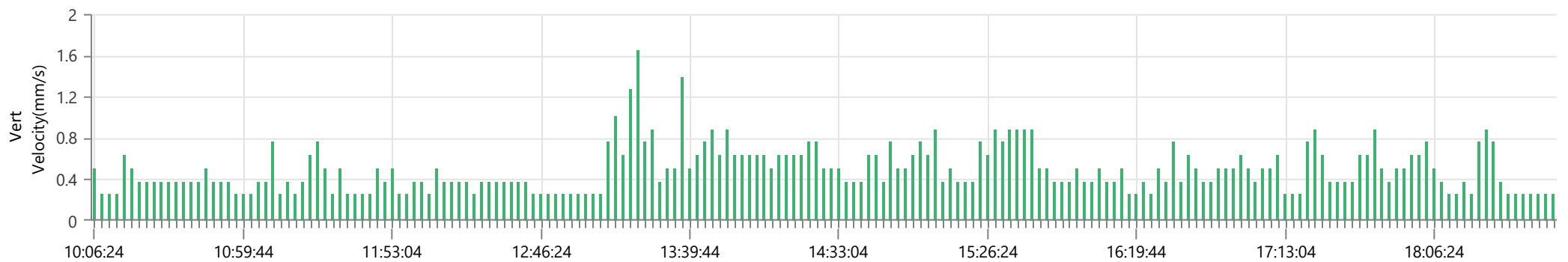
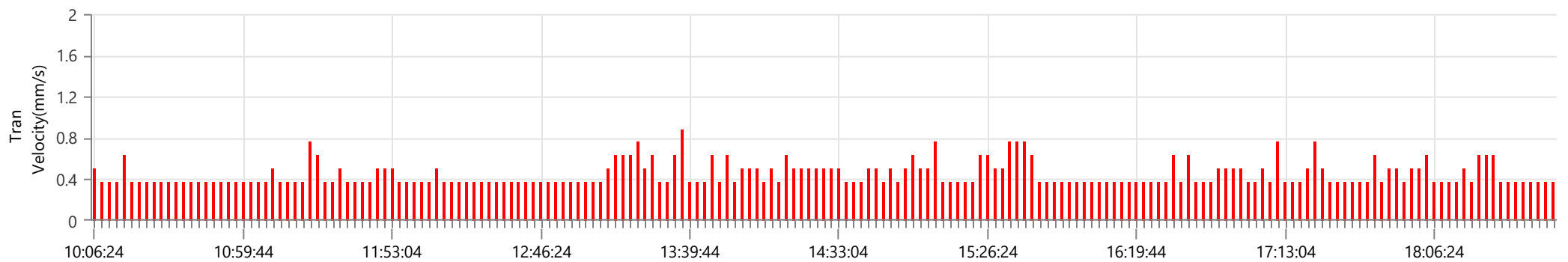
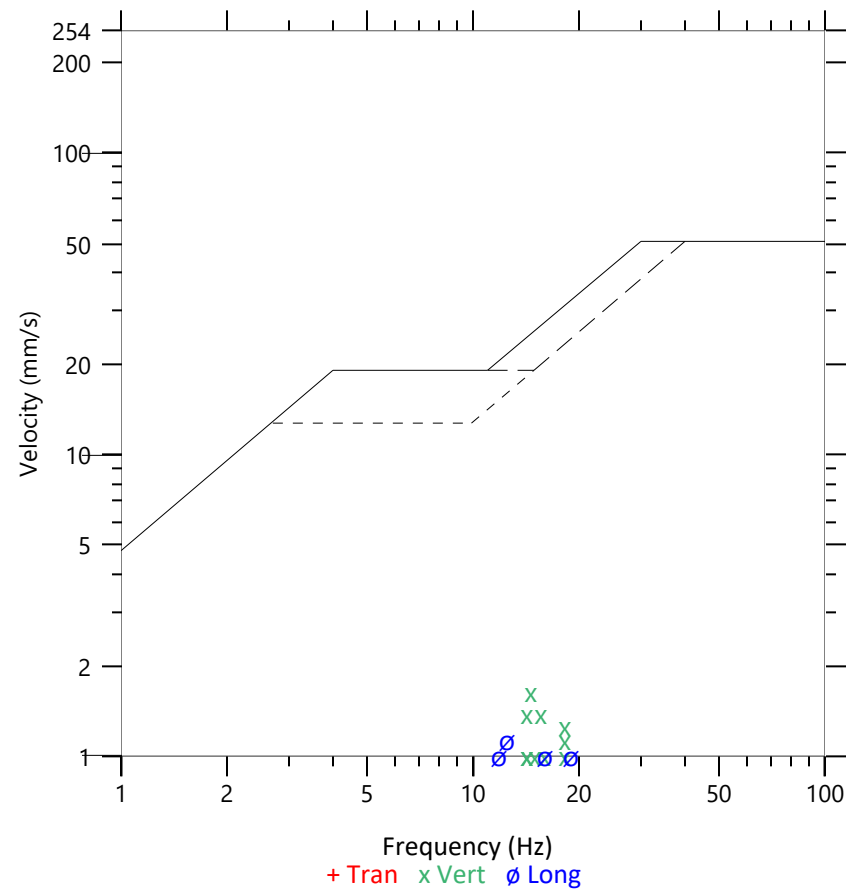
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.889 mm/s	1.651 mm/s	1.143 mm/s
Zero Crossing Frequency	17.1 Hz	14.6 Hz	12.5 Hz
Date	Oct 11, 2022	Oct 11, 2022	Oct 11, 2022
Time	13:39:34	13:23:24	15:39:54
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.0	3.8	3.8
Peak Vector Sum	1.713 mm/s at October 11, 2022 13:23:24		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 11, 2022 10:06:19
Finish October 11, 2022 18:50:05
Number of Intervals/Interval 6285.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221011100619.IDFH

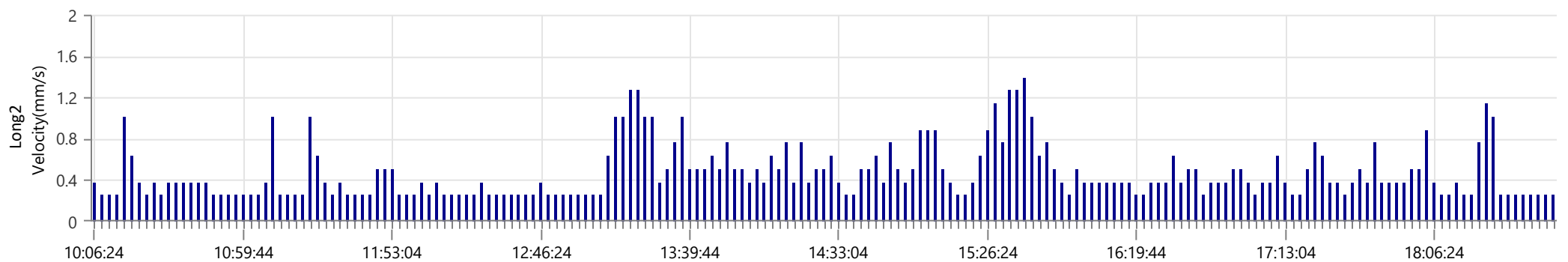
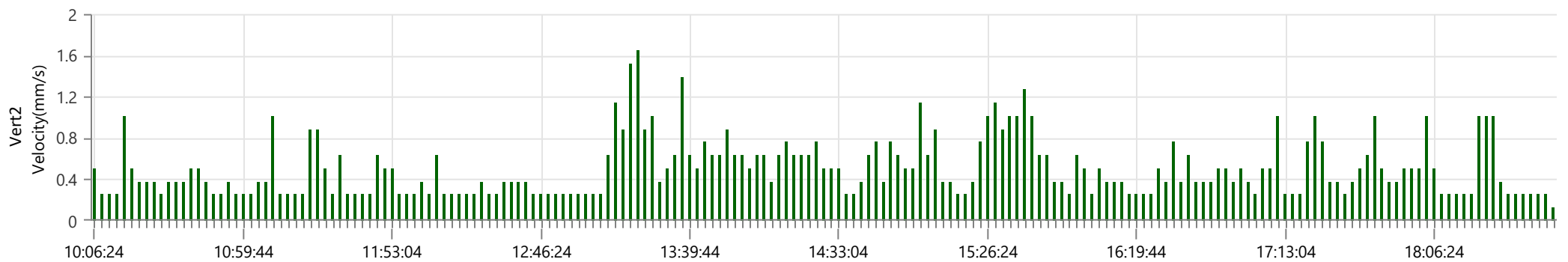
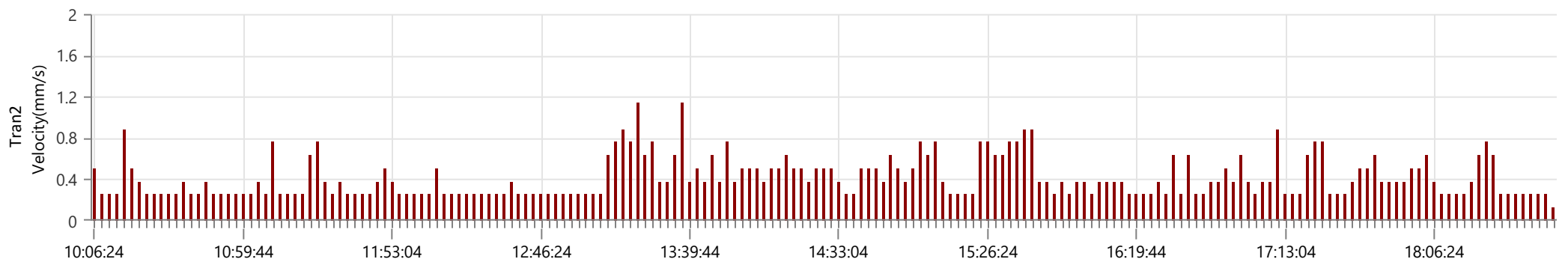
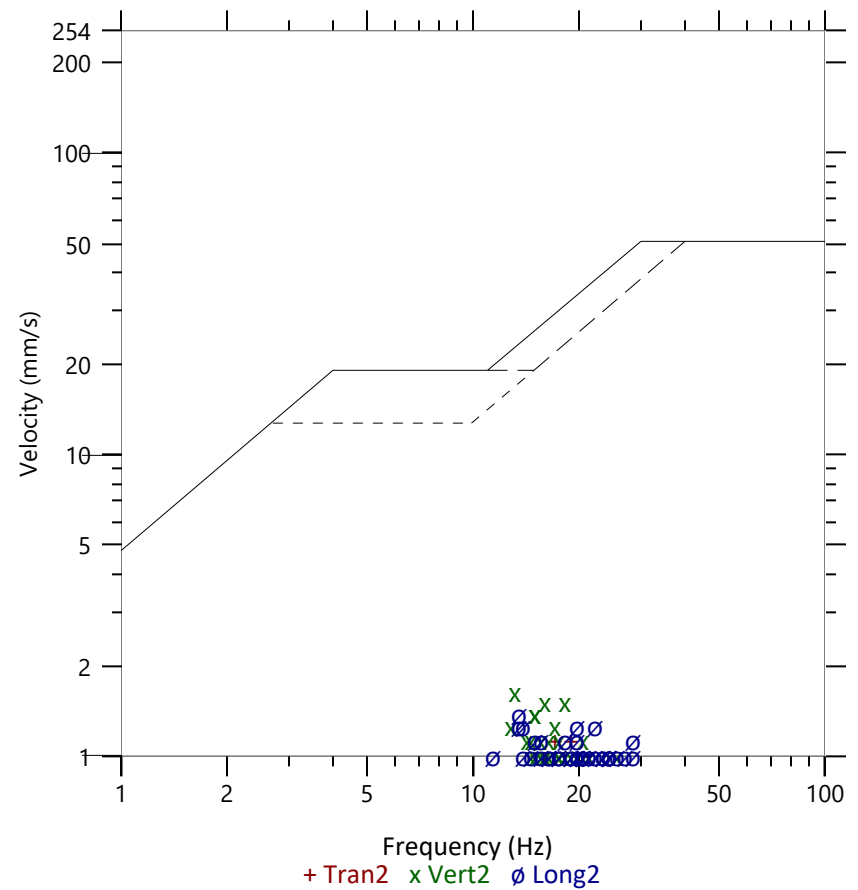
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.143 mm/s	1.651 mm/s	1.397 mm/s
Zero Crossing Frequency	19.0 Hz	13.1 Hz	13.5 Hz
Date	Oct 11, 2022	Oct 11, 2022	Oct 11, 2022
Time	13:23:24	13:23:09	15:39:54
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.9	4.4	4.2
Peak Vector Sum	1.879 mm/s at October 11, 2022 13:23:09		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 12, 2022 10:11:40
Finish October 12, 2022 19:27:02
Number of Intervals/Interval 6664.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221012101140.IDFH

Notes
Location:
Client:
User Name: JA
General:

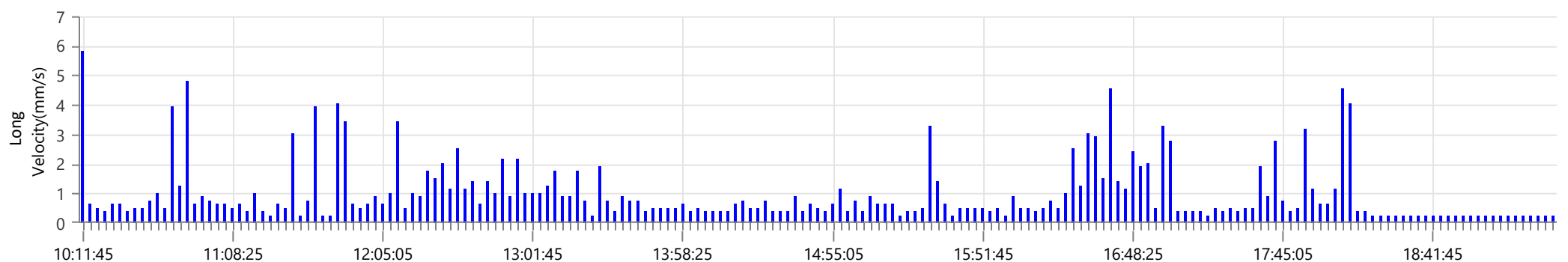
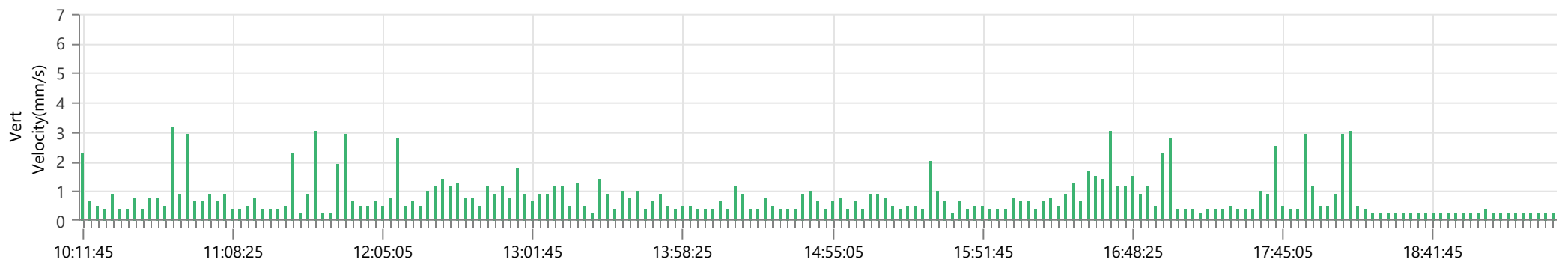
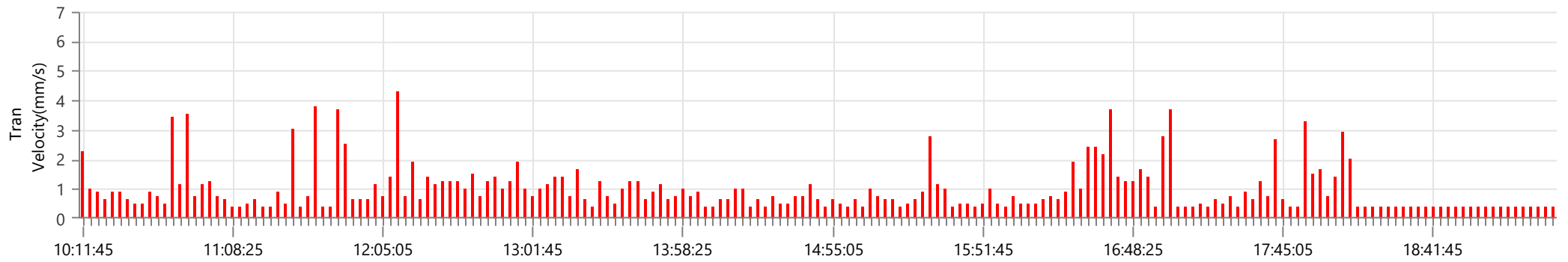
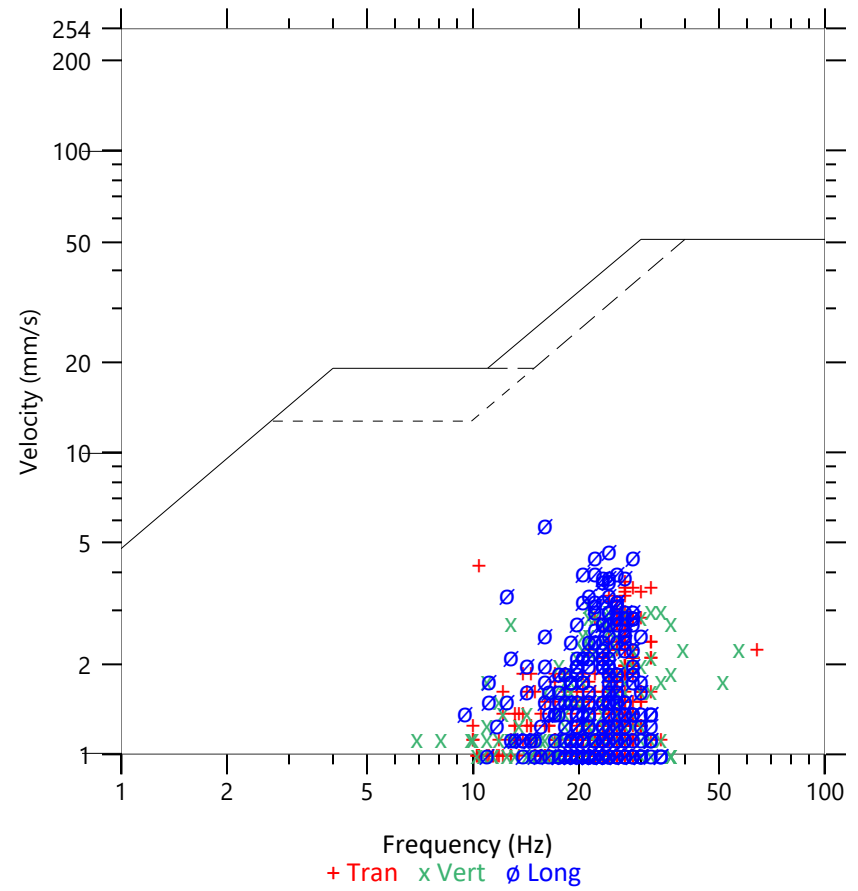
extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.318 mm/s	3.175 mm/s	5.842 mm/s
Zero Crossing Frequency	10.4 Hz	21.3 Hz	16.0 Hz
Date	Oct 12, 2022	Oct 12, 2022	Oct 12, 2022
Time	12:13:00	10:48:00	10:13:25
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.9 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.0	3.8	3.9

Peak Vector Sum 6.157 mm/s at October 12, 2022 10:13:25

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 12, 2022 10:11:40
Finish October 12, 2022 19:27:02
Number of Intervals/Interval 6664.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221012101140.IDFH

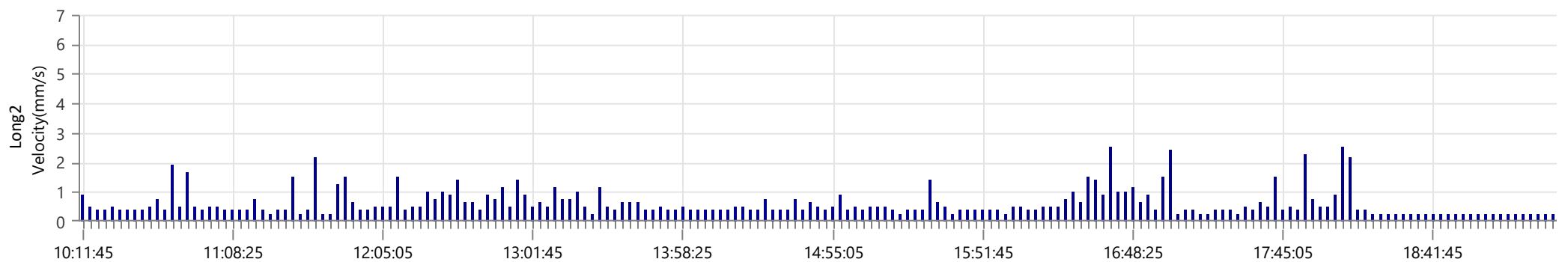
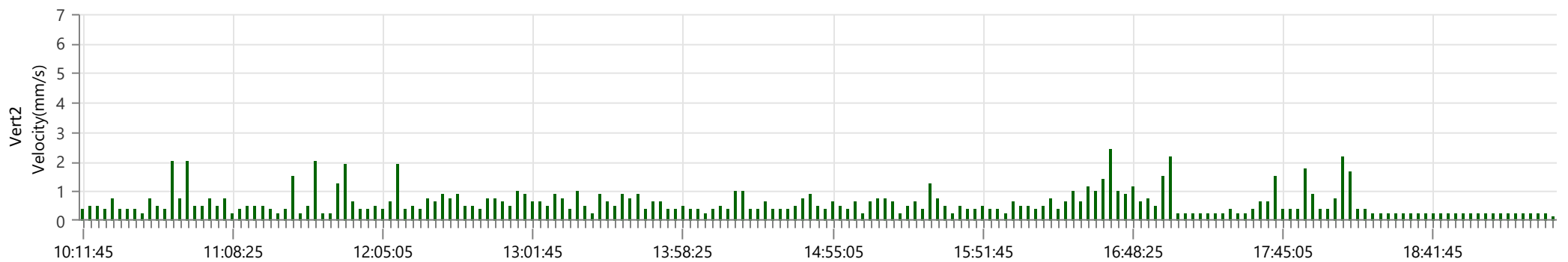
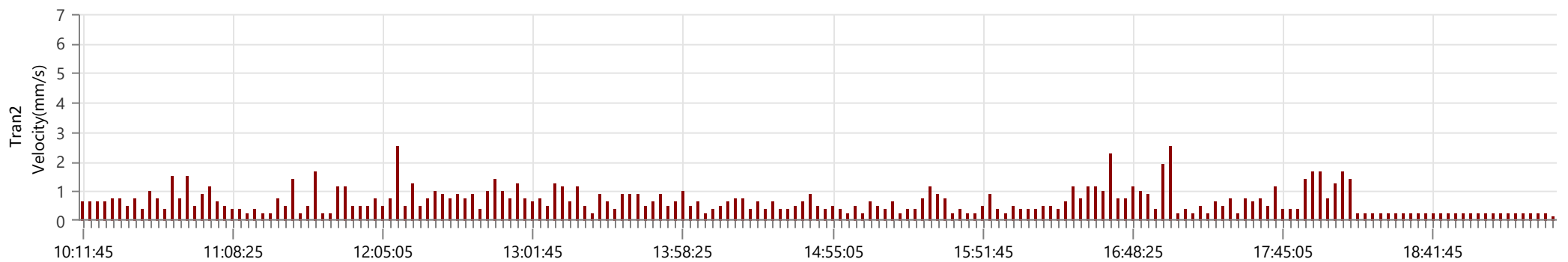
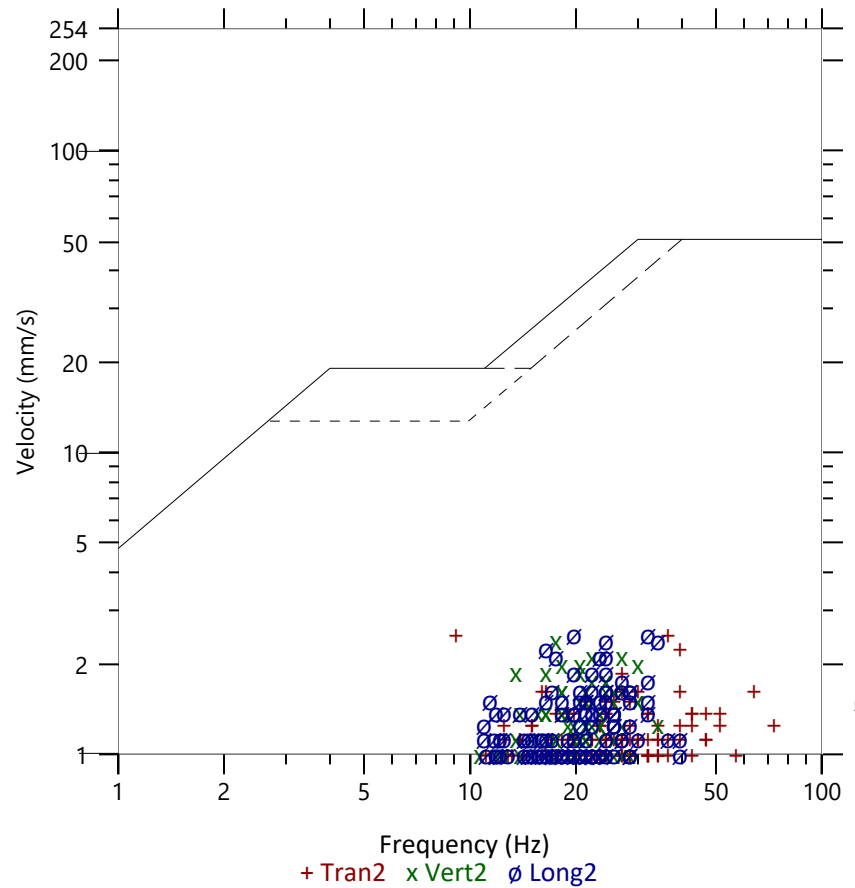
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.540 mm/s	2.413 mm/s	2.540 mm/s
Zero Crossing Frequency	9.1 Hz	17.7 Hz	32.0 Hz
Date	Oct 12, 2022	Oct 12, 2022	Oct 12, 2022
Time	12:13:00	16:40:15	16:40:15
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.3	4.2
Peak Vector Sum	3.268 mm/s at October 12, 2022 16:40:15		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 13, 2022 08:37:36
Finish October 13, 2022 19:19:31
Number of Intervals/Interval 7702.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221013083736.IDFH

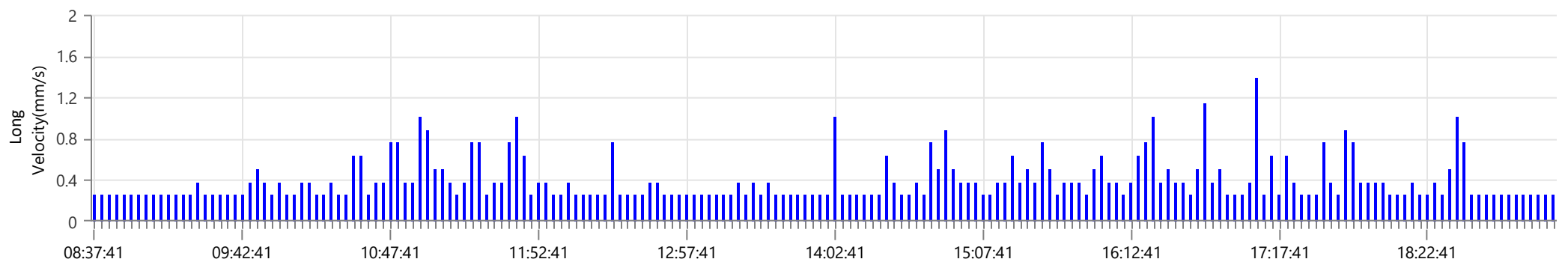
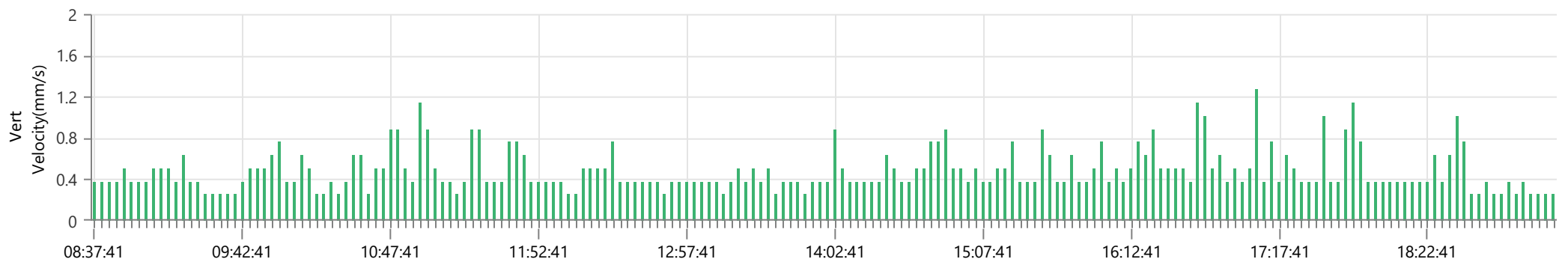
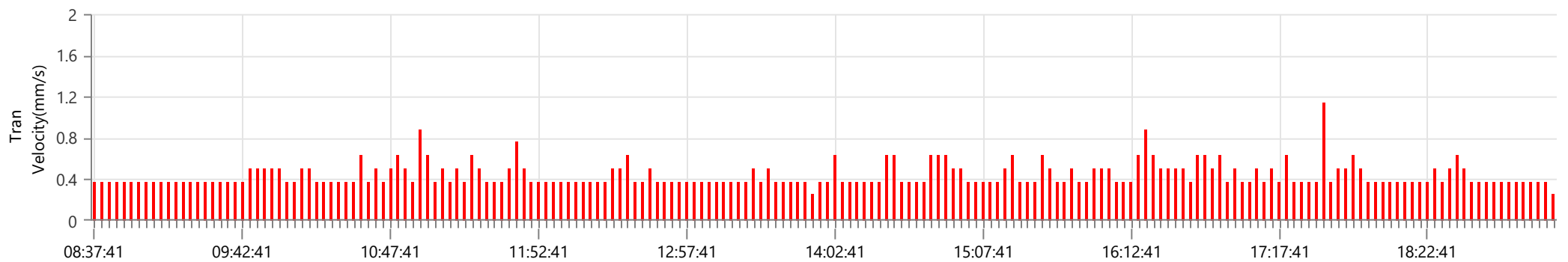
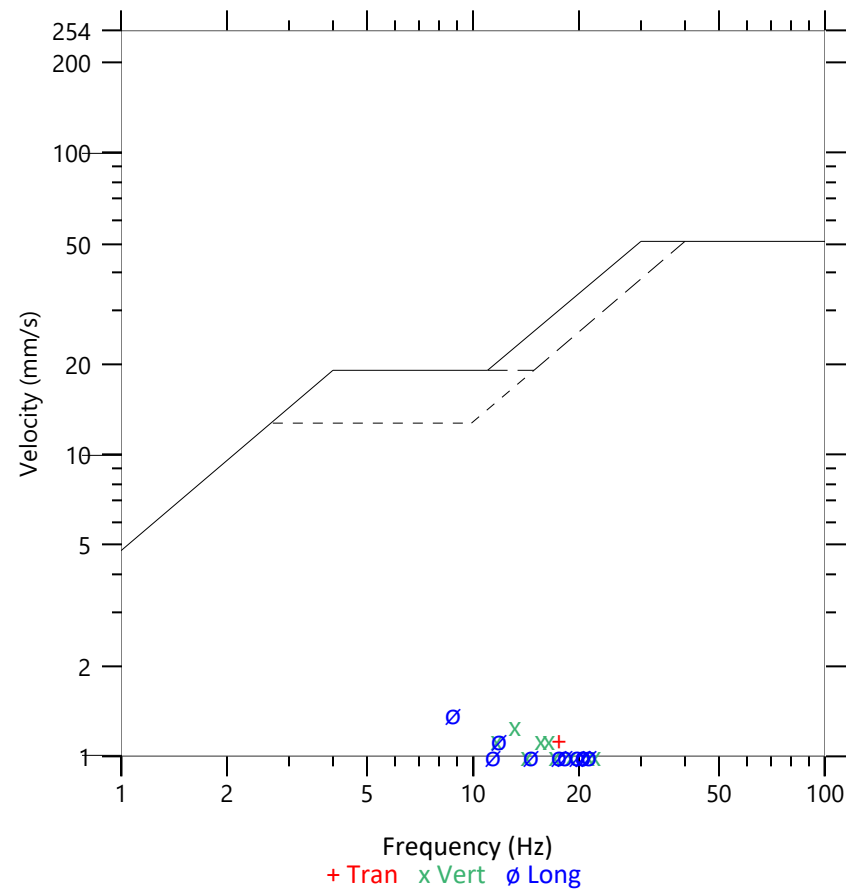
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	1.270 mm/s	1.397 mm/s
Zero Crossing Frequency	17.7 Hz	13.1 Hz	8.8 Hz
Date	Oct 13, 2022	Oct 13, 2022	Oct 13, 2022
Time	17:38:16	17:08:16	17:08:16
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.1	3.8	3.9
Peak Vector Sum	1.426 mm/s at October 13, 2022 17:08:16		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 13, 2022 08:37:36
Finish October 13, 2022 19:19:31
Number of Intervals/Interval 7702.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221013083736.IDFH

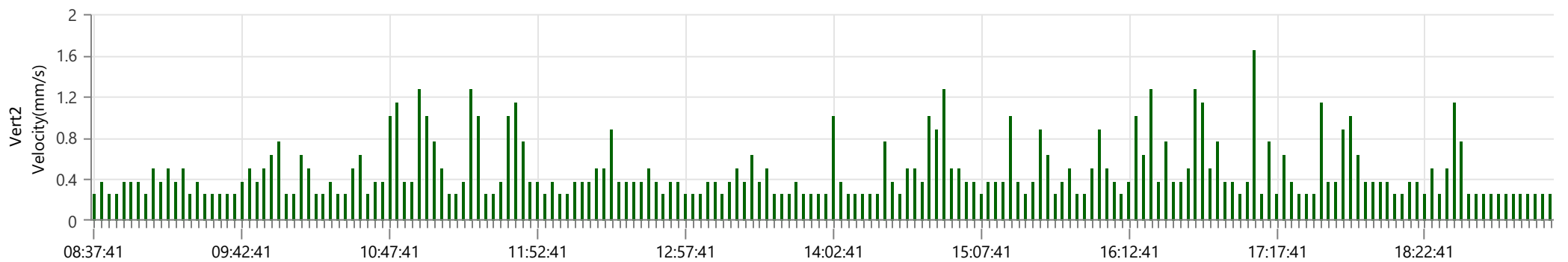
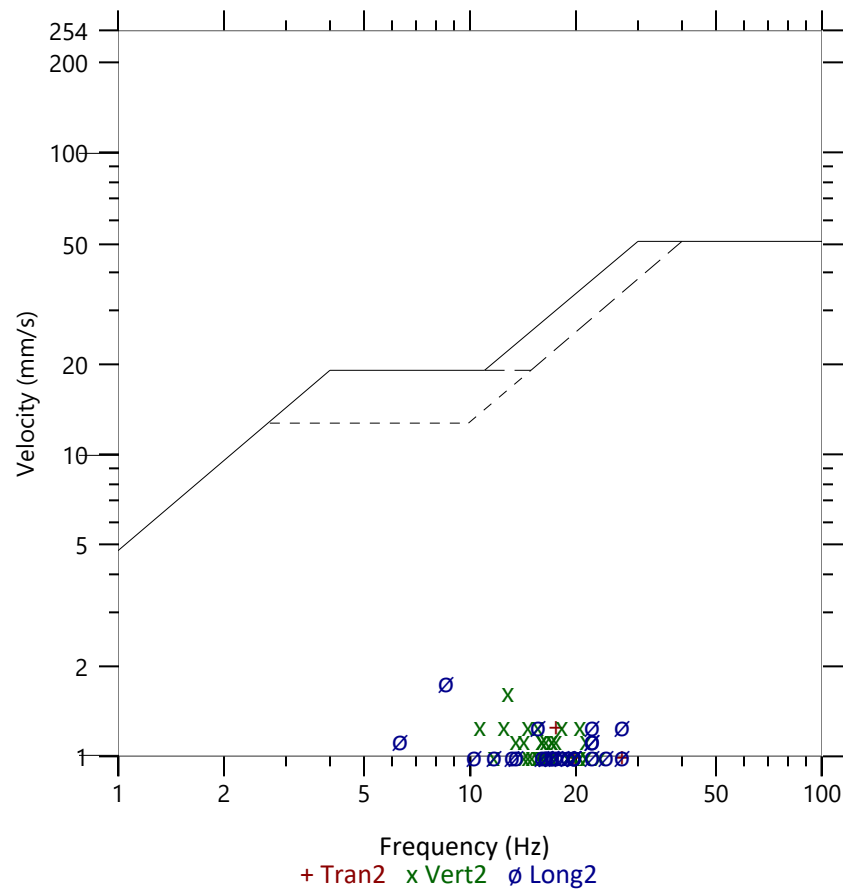
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.270 mm/s	1.651 mm/s	1.778 mm/s
Zero Crossing Frequency	17.7 Hz	12.8 Hz	8.5 Hz
Date	Oct 13, 2022	Oct 13, 2022	Oct 13, 2022
Time	17:38:16	17:08:16	17:08:16
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.8	4.4	4.2
Peak Vector Sum	2.148 mm/s at October 13, 2022 17:08:16		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 14, 2022 09:20:35
Finish October 14, 2022 19:08:20
Number of Intervals/Interval 7052.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221014092035.IDFH

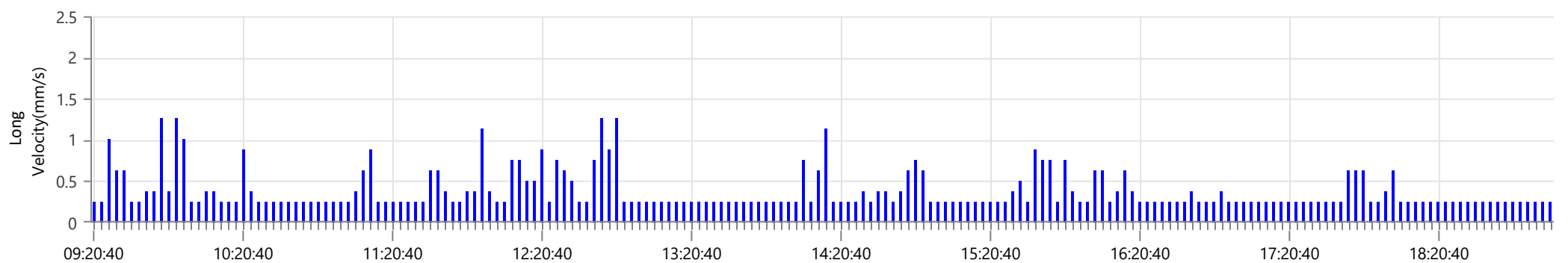
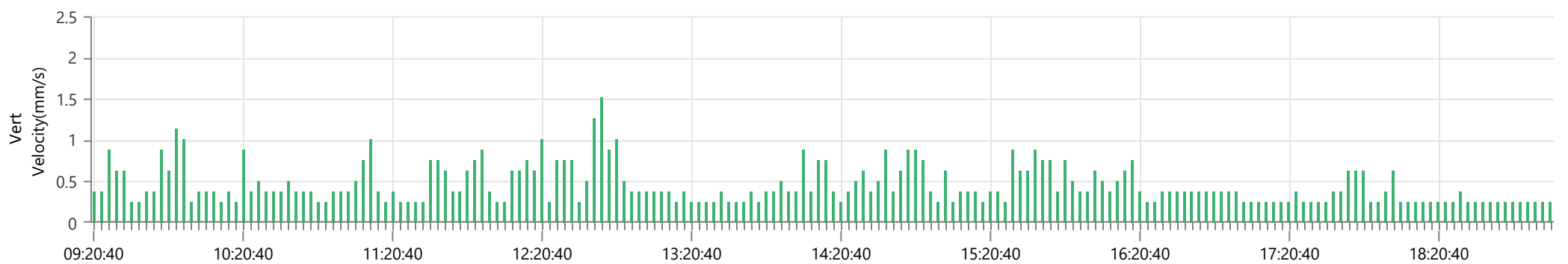
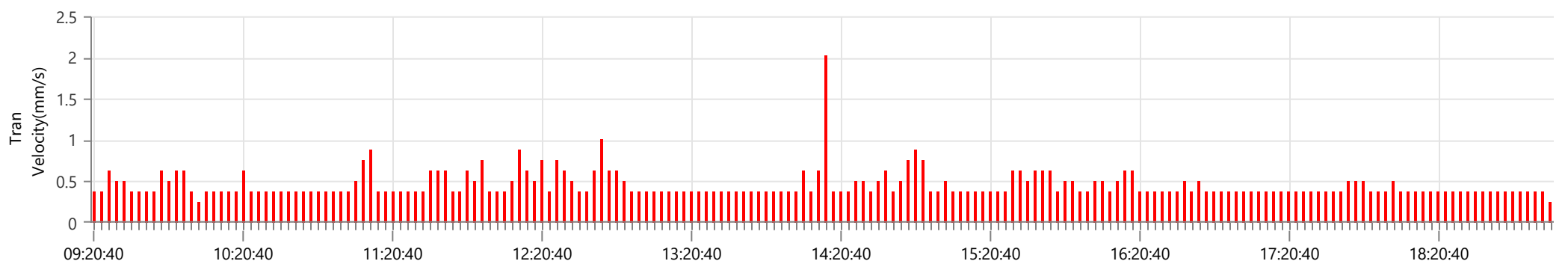
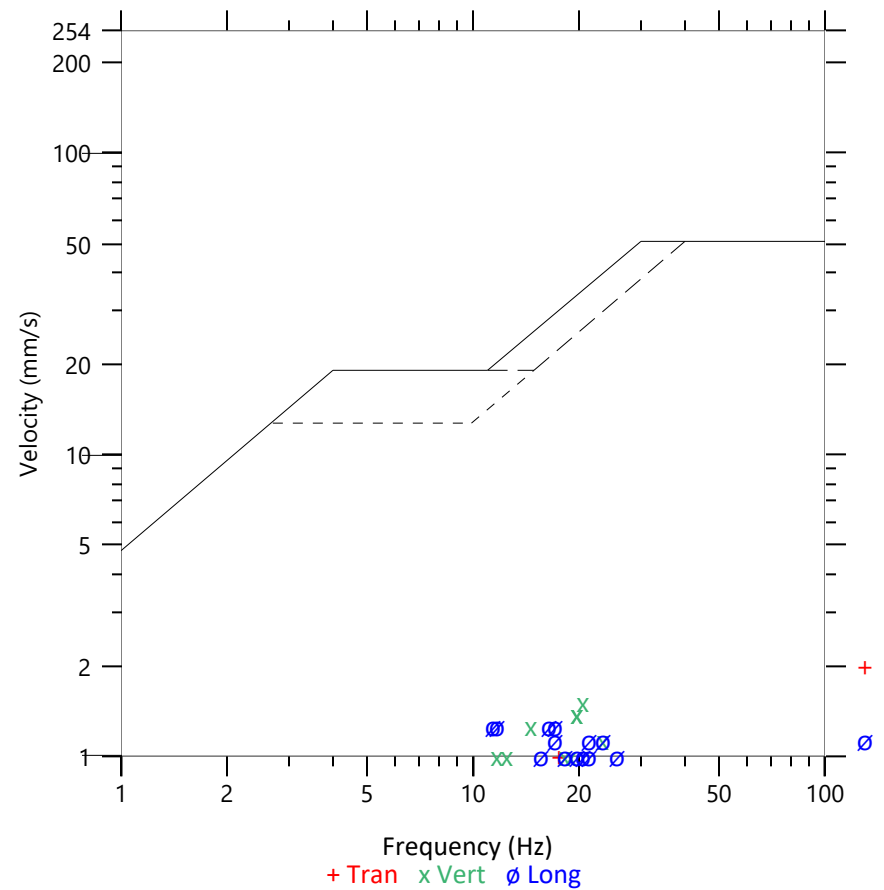
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.032 mm/s	1.524 mm/s	1.270 mm/s
Zero Crossing Frequency	>100 Hz	20.5 Hz	11.6 Hz
Date	Oct 14, 2022	Oct 14, 2022	Oct 14, 2022
Time	14:15:45	12:47:10	09:50:20
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.1	3.7	3.8
Peak Vector Sum	2.275 mm/s at October 14, 2022 14:15:45		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 14, 2022 09:20:35
Finish October 14, 2022 19:08:20
Number of Intervals/Interval 7052.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221014092035.IDFH

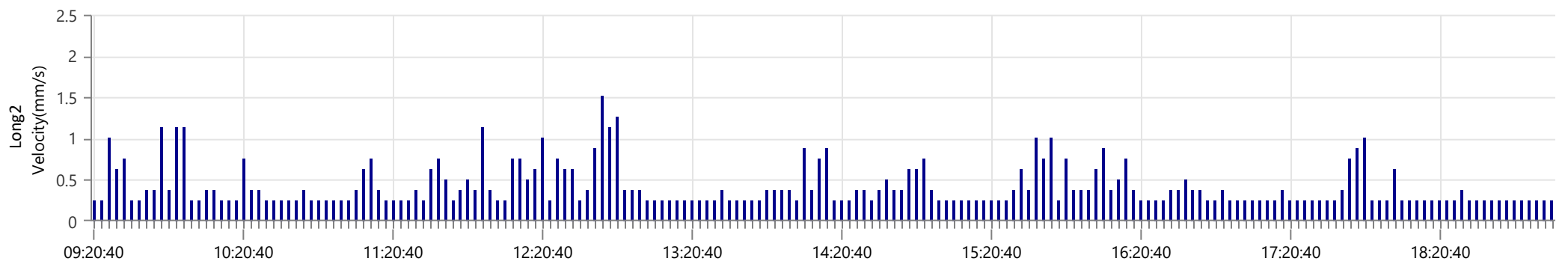
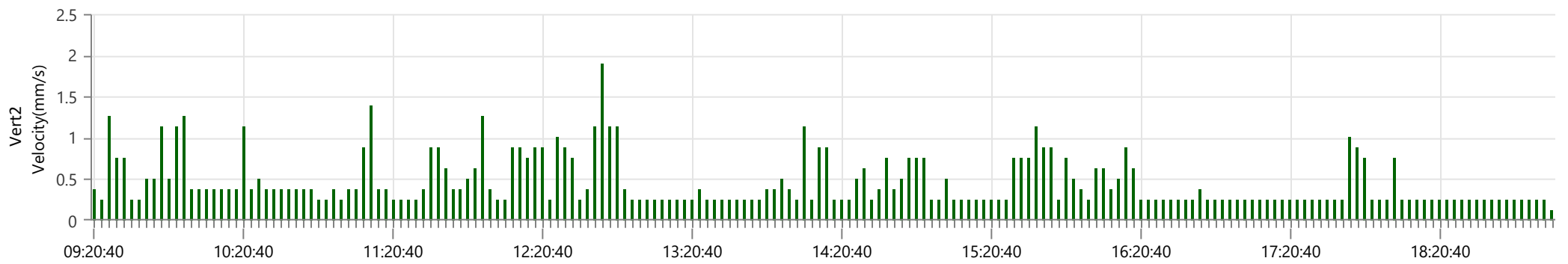
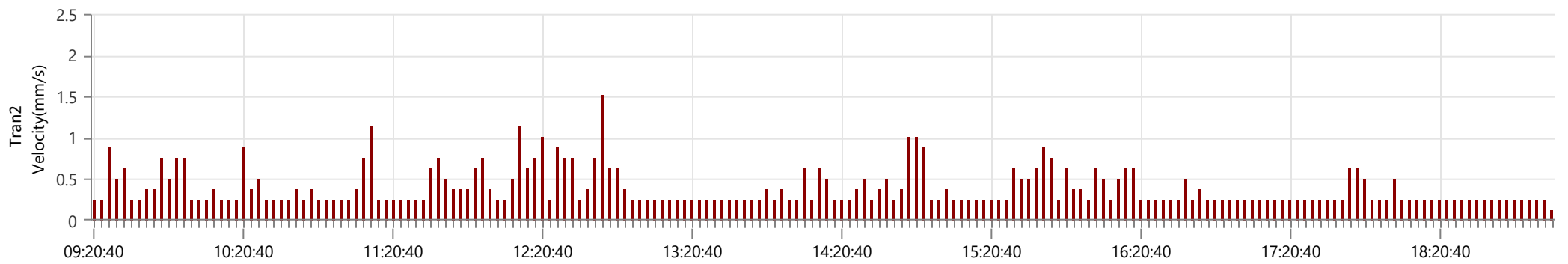
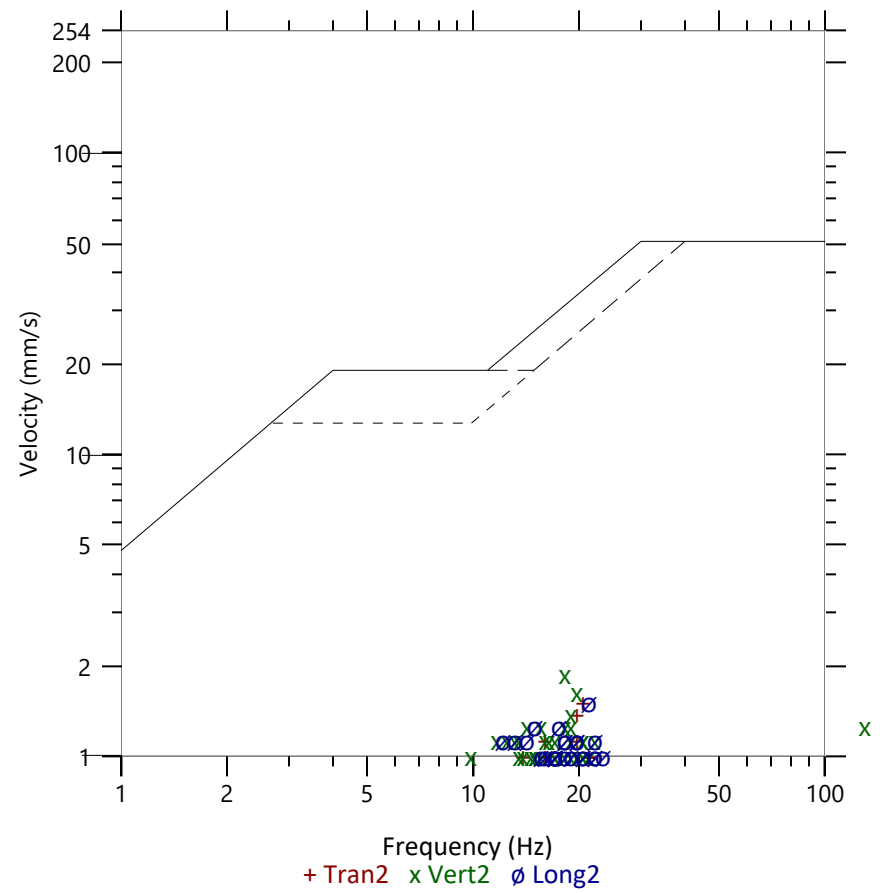
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.524 mm/s	1.905 mm/s	1.524 mm/s
Zero Crossing Frequency	20.5 Hz	18.3 Hz	21.3 Hz
Date	Oct 14, 2022	Oct 14, 2022	Oct 14, 2022
Time	12:47:10	12:47:10	12:47:10
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.3	4.1
Peak Vector Sum	2.012 mm/s at October 14, 2022 12:47:10		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 15, 2022 10:05:19
Finish October 15, 2022 19:09:22
Number of Intervals/Interval 6528.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221015100519.IDFH

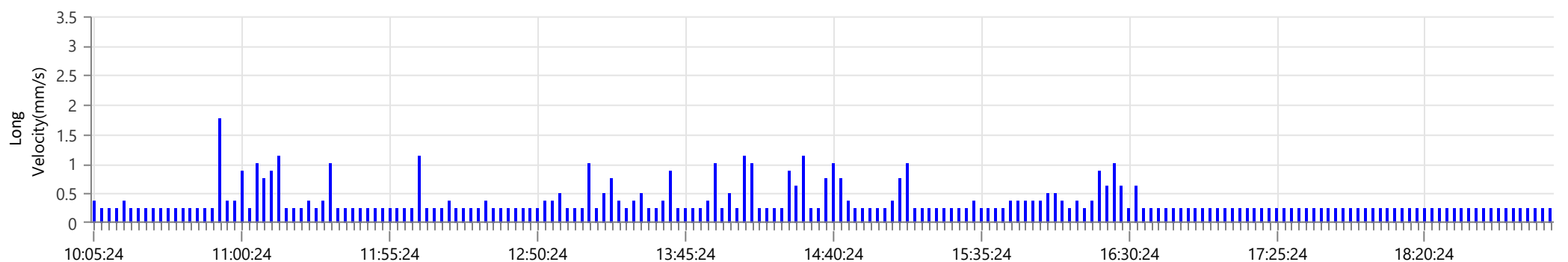
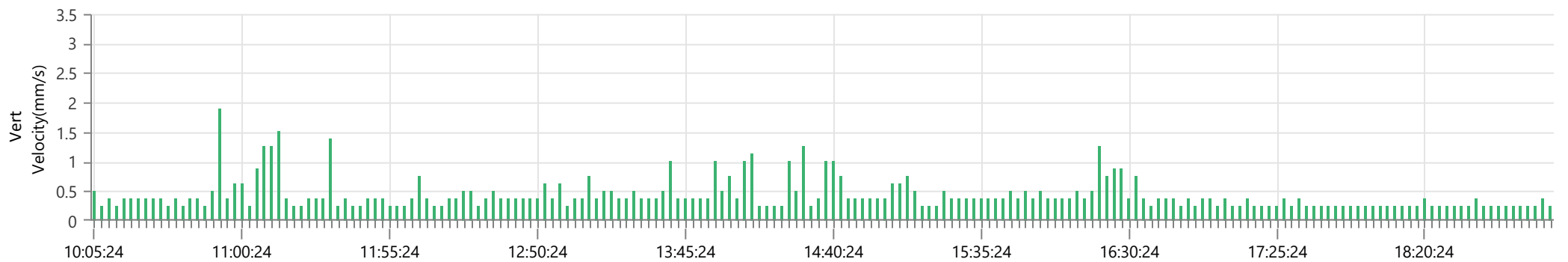
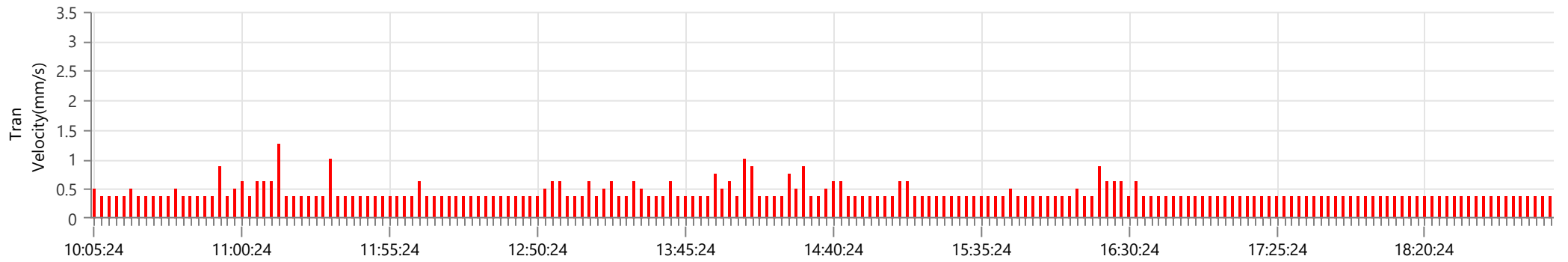
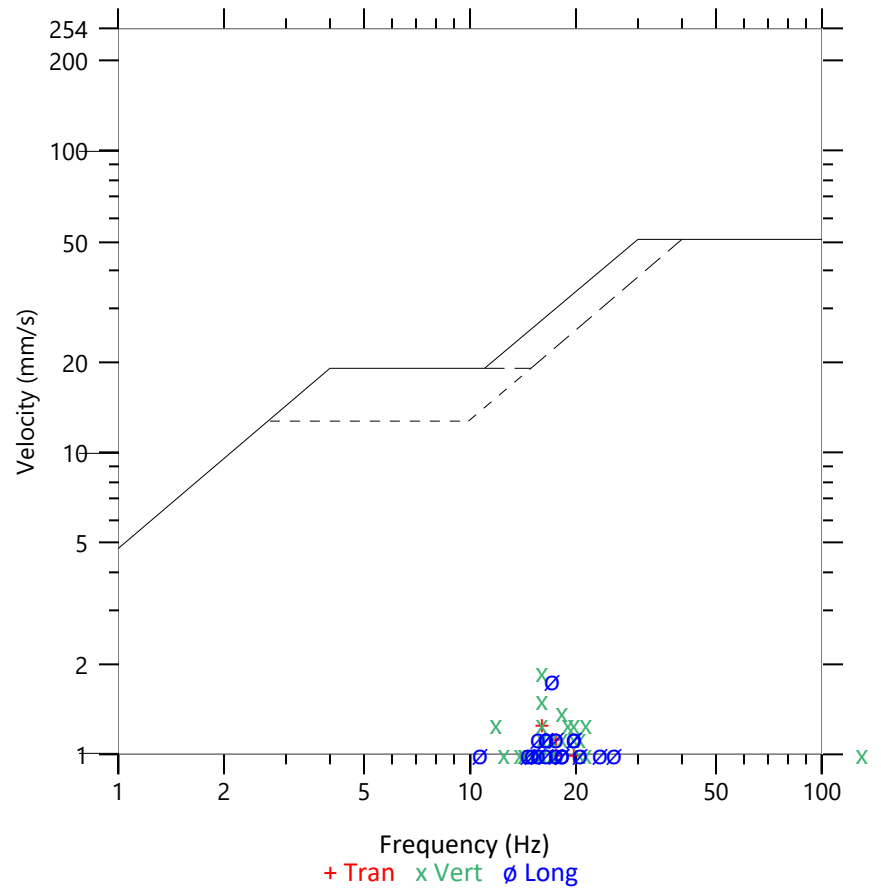
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.905 mm/s	1.778 mm/s
Zero Crossing Frequency	16.0 Hz	16.0 Hz	17.1 Hz
Date	Oct 15, 2022	Oct 15, 2022	Oct 15, 2022
Time	11:14:49	10:54:24	10:54:24
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	4.1	3.8	3.8
Peak Vector Sum	2.275 mm/s at October 15, 2022 10:54:24		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 15, 2022 10:05:19
Finish October 15, 2022 19:09:22
Number of Intervals/Interval 6528.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221015100519.IDFH

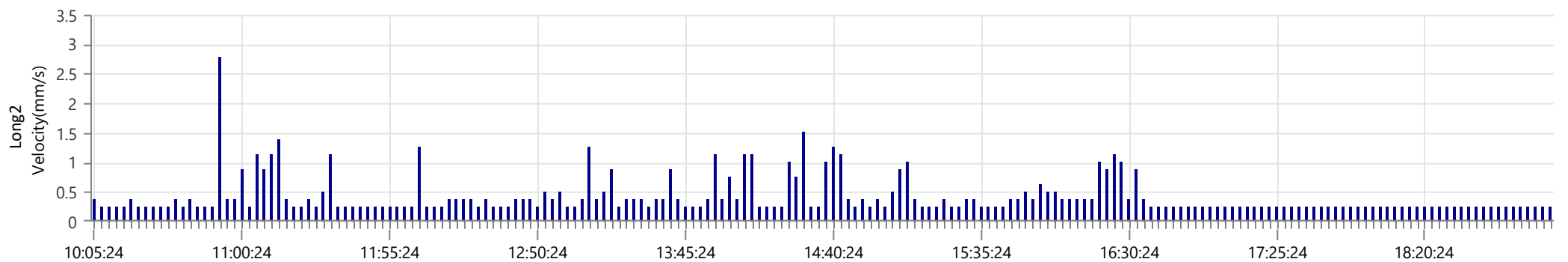
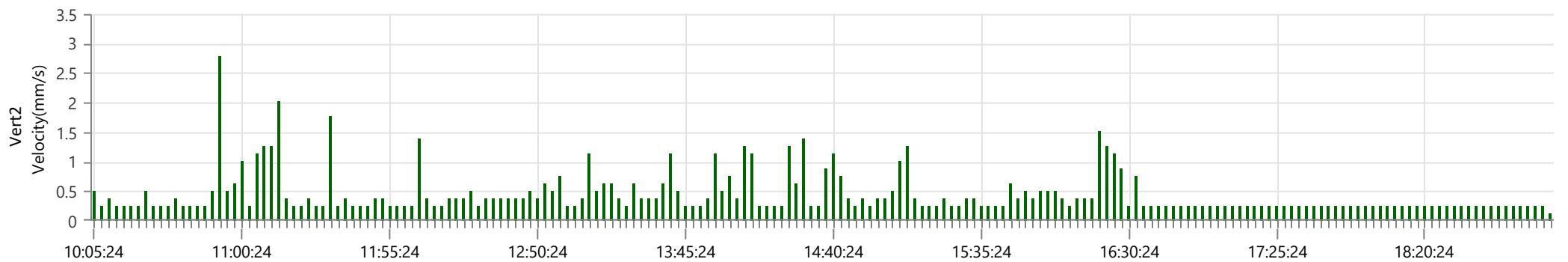
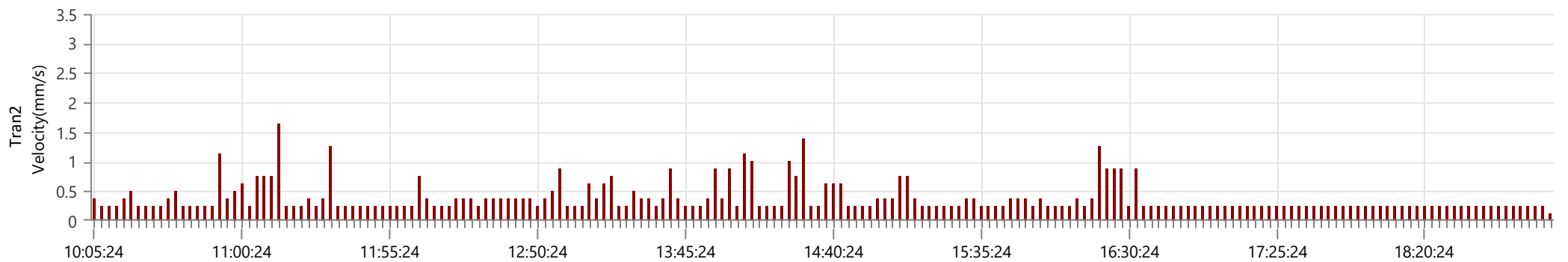
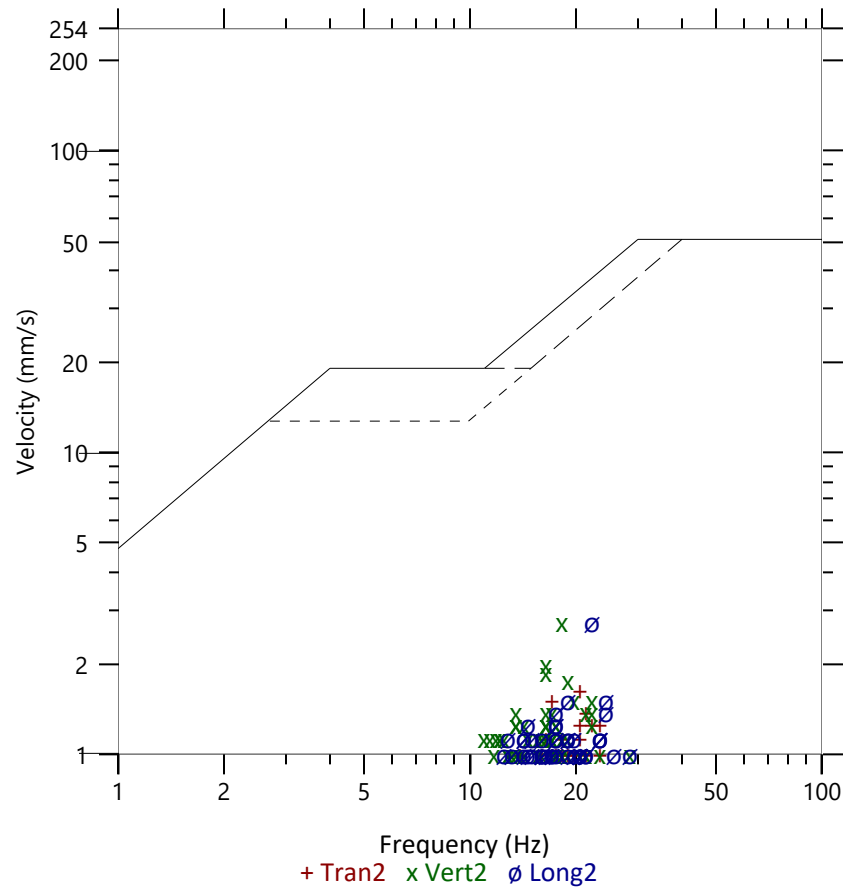
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.651 mm/s	2.794 mm/s	2.794 mm/s
Zero Crossing Frequency	20.5 Hz	18.3 Hz	22.3 Hz
Date	Oct 15, 2022	Oct 15, 2022	Oct 15, 2022
Time	11:14:49	10:54:24	10:54:24
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.8 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.4	4.3
Peak Vector Sum	2.965 mm/s at October 15, 2022 10:54:24		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 17, 2022 10:05:11
Finish October 17, 2022 19:18:20
Number of Intervals/Interval 6637.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221017100511.IDFH

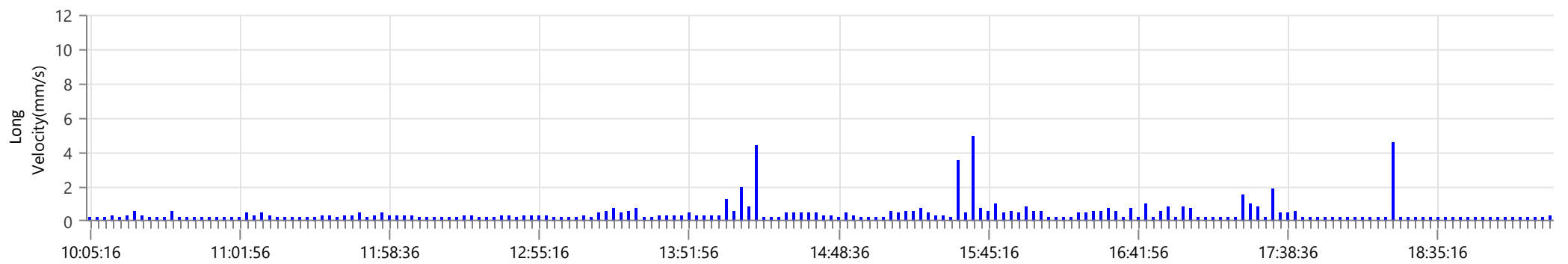
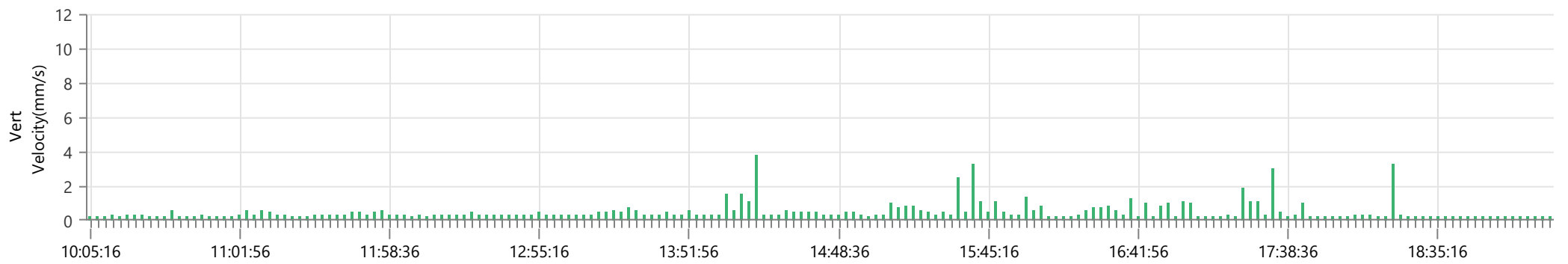
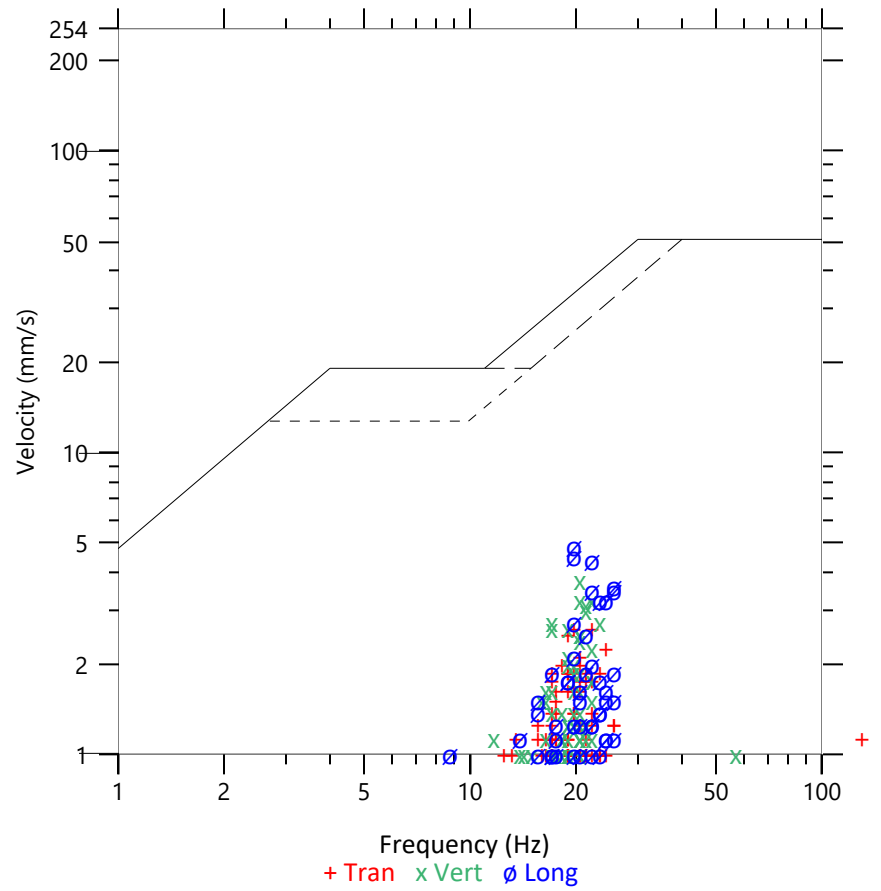
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.667 mm/s	3.810 mm/s	4.953 mm/s
Zero Crossing Frequency	22.3 Hz	20.5 Hz	19.7 Hz
Date	Oct 17, 2022	Oct 17, 2022	Oct 17, 2022
Time	14:17:56	14:18:01	15:40:46
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.1	3.8	3.8
Peak Vector Sum	5.188 mm/s at October 17, 2022 15:40:46		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 17, 2022 10:05:11
Finish October 17, 2022 19:18:20
Number of Intervals/Interval 6637.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221017100511.IDFH

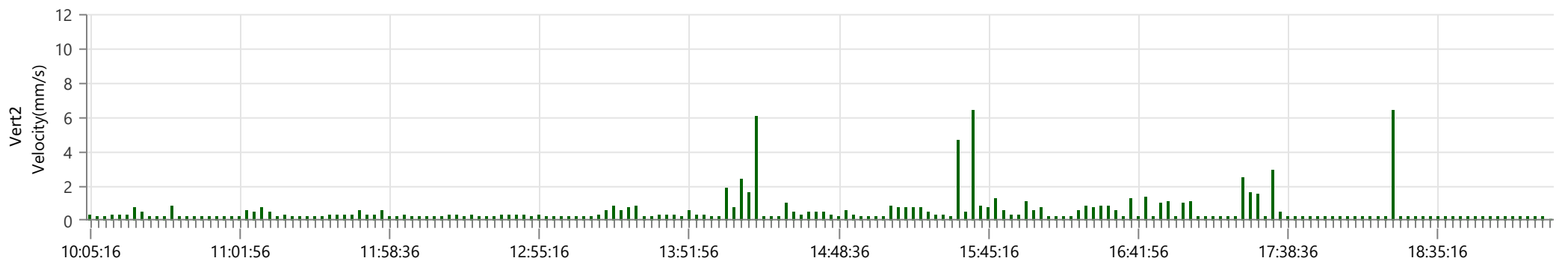
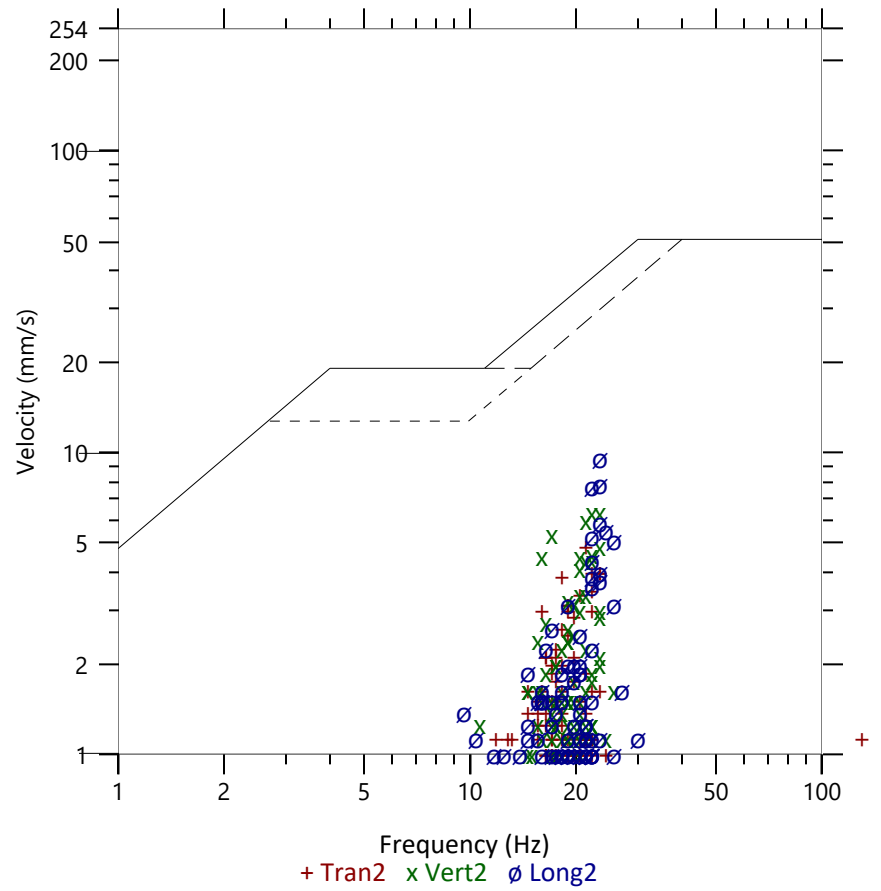
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	4.953 mm/s	6.477 mm/s	9.779 mm/s
Zero Crossing Frequency	21.3 Hz	22.3 Hz	23.3 Hz
Date	Oct 17, 2022	Oct 17, 2022	Oct 17, 2022
Time	15:40:46	15:40:46	14:18:06
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.6 Hz	7.5 Hz	7.8 Hz
Overswing Ratio	3.8	4.3	4.2
Peak Vector Sum	10.150 mm/s at October 17, 2022 14:18:06		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 18, 2022 09:37:13
Finish October 18, 2022 19:09:27
Number of Intervals/Interval 6866.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221018093713.IDFH

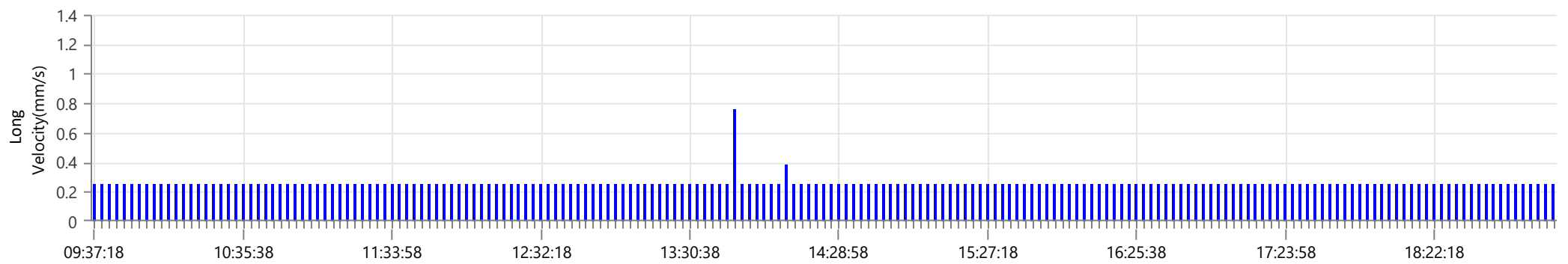
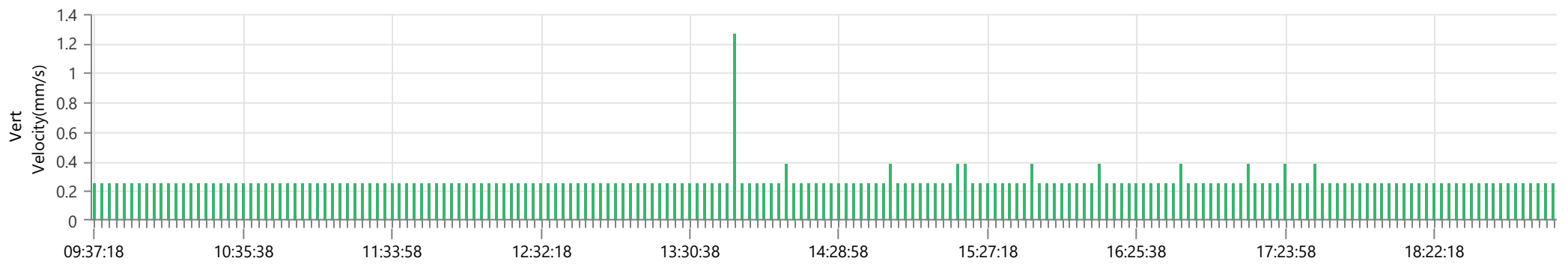
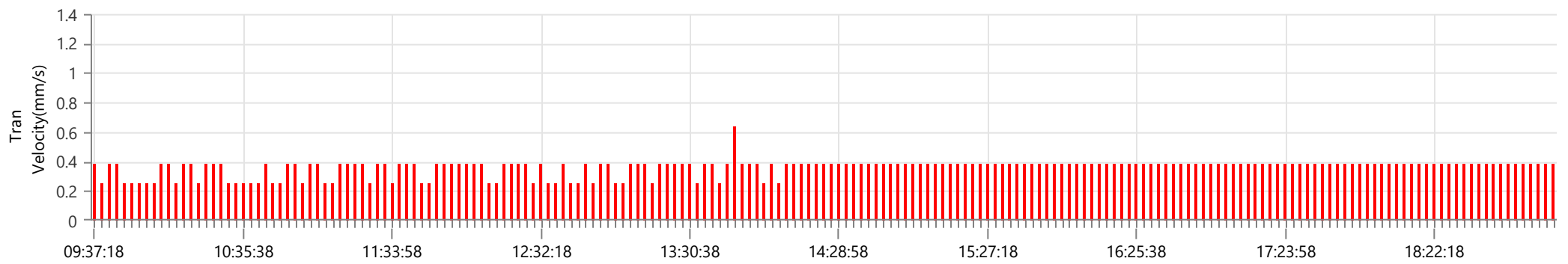
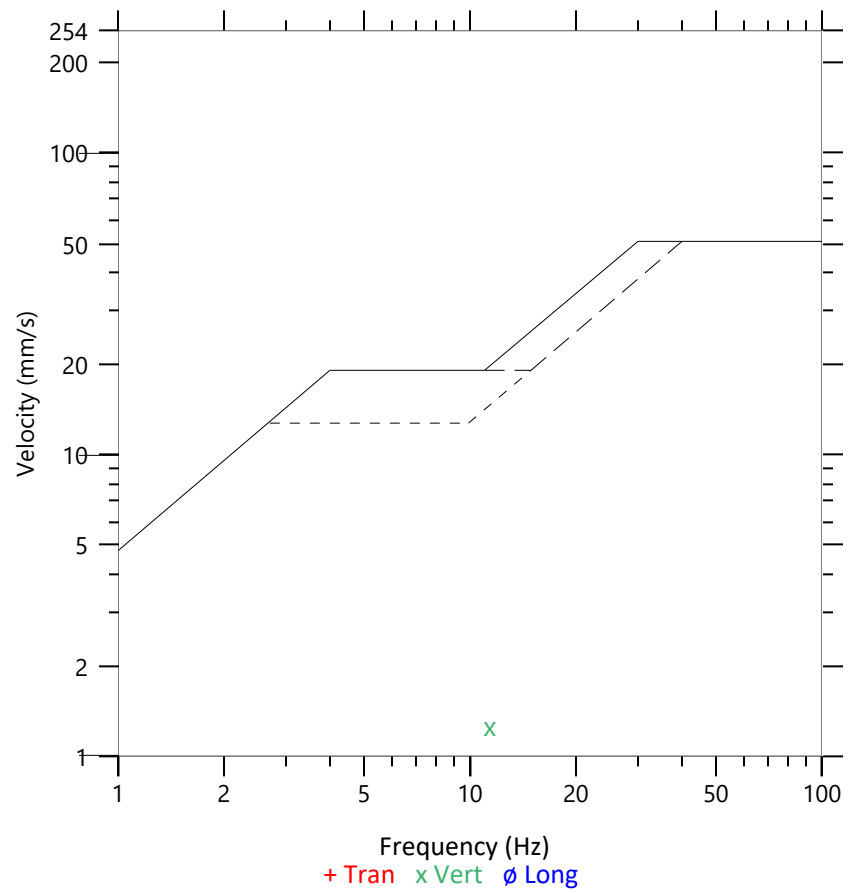
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	1.270 mm/s	0.762 mm/s
Zero Crossing Frequency	11.4 Hz	11.4 Hz	N/A
Date	Oct 18, 2022	Oct 18, 2022	Oct 18, 2022
Time	13:50:08	13:50:08	13:50:08
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.1	3.8	3.9
Peak Vector Sum	1.350 mm/s at October 18, 2022 13:50:08		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 18, 2022 09:37:13
Finish October 18, 2022 19:09:27
Number of Intervals/Interval 6866.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221018093713.IDFH

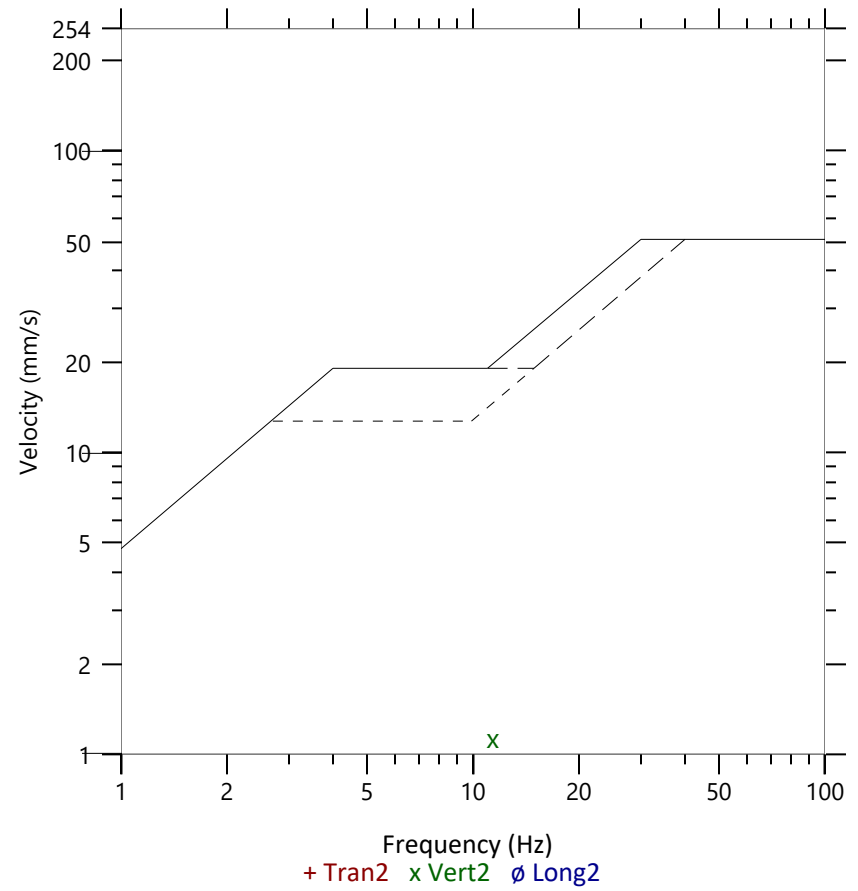
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.762 mm/s	1.143 mm/s	0.762 mm/s
Zero Crossing Frequency	10.0 Hz	11.4 Hz	10.4 Hz
Date	Oct 18, 2022	Oct 18, 2022	Oct 18, 2022
Time	13:50:08	13:50:08	13:50:13
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.9	4.4	4.3
Peak Vector Sum	1.212 mm/s at October 18, 2022 13:50:08		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 19, 2022 13:13:00
Finish October 19, 2022 18:48:57
Number of Intervals/Interval 4031.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221019131300.IDFH

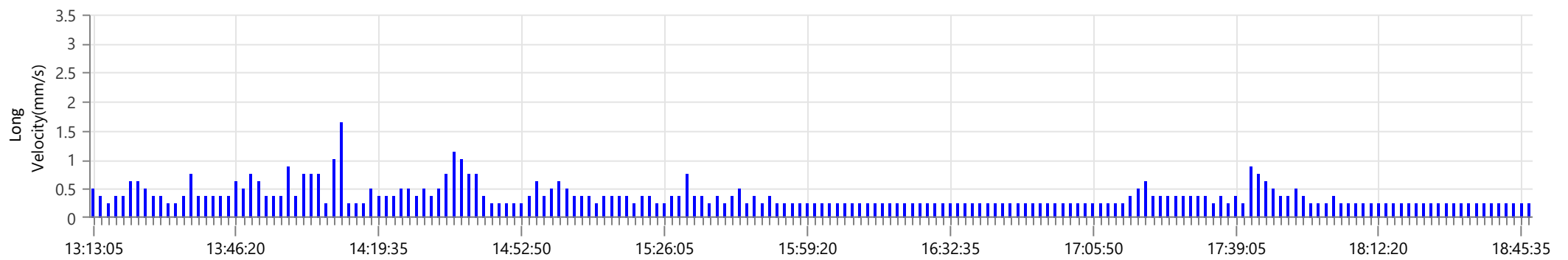
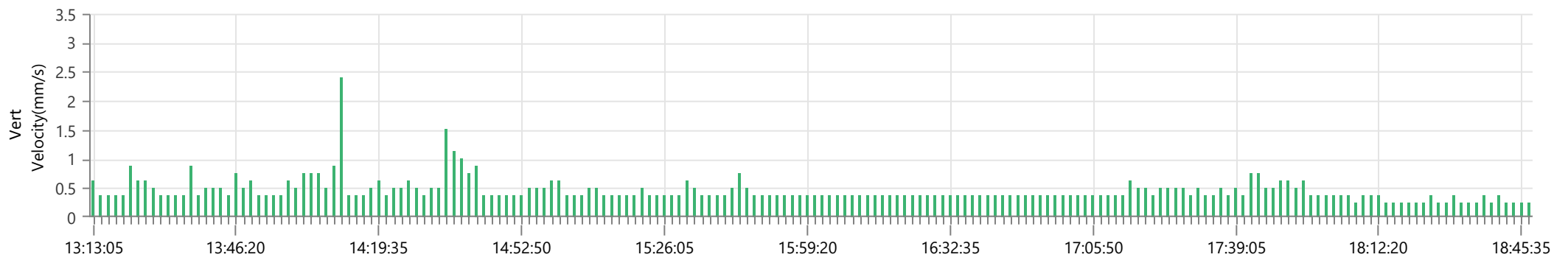
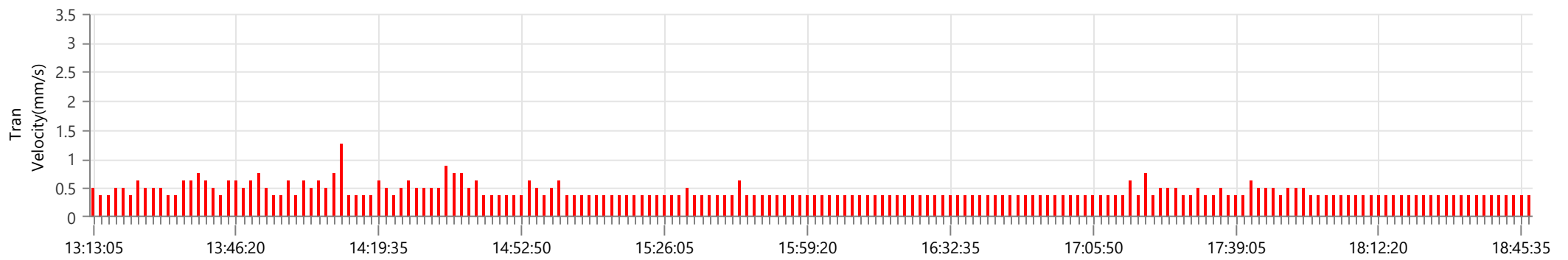
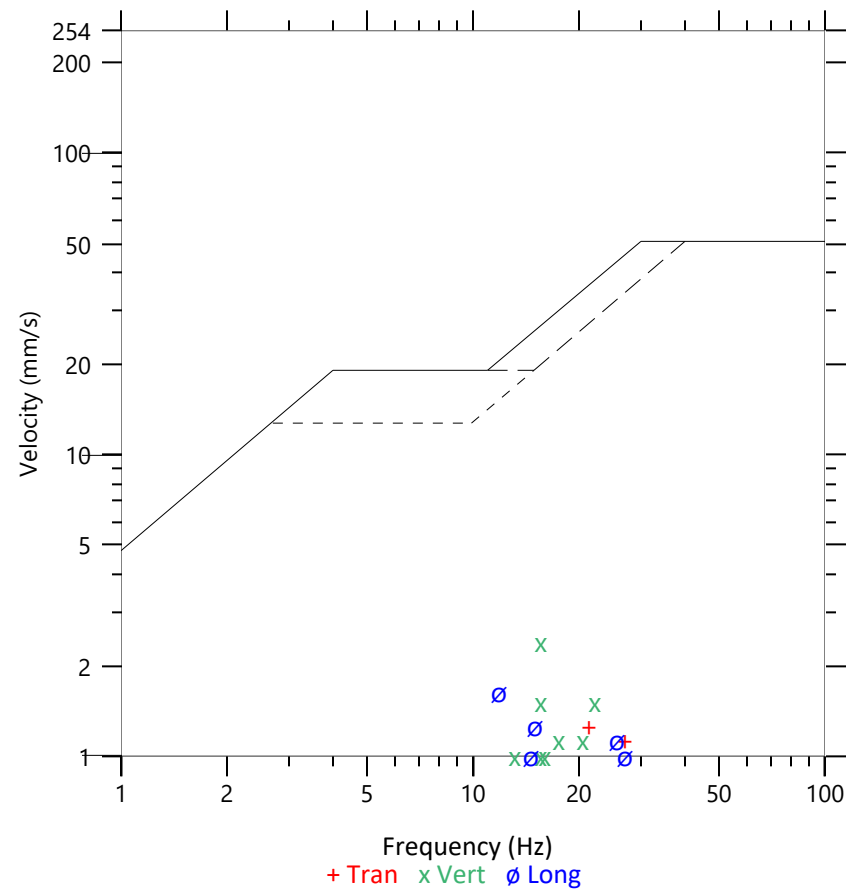
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	2.413 mm/s	1.651 mm/s
Zero Crossing Frequency	21.3 Hz	15.5 Hz	11.9 Hz
Date	Oct 19, 2022	Oct 19, 2022	Oct 19, 2022
Time	14:10:50	14:10:50	14:10:50
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.1	3.8	3.8
Peak Vector Sum	2.575 mm/s at October 19, 2022 14:10:50		

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 19, 2022 13:13:00
Finish October 19, 2022 18:48:57
Number of Intervals/Interval 4031.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221019131300.IDFH

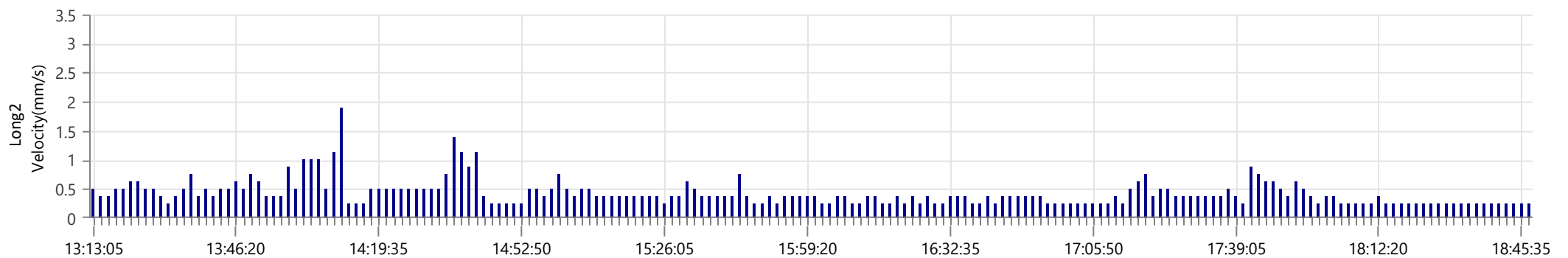
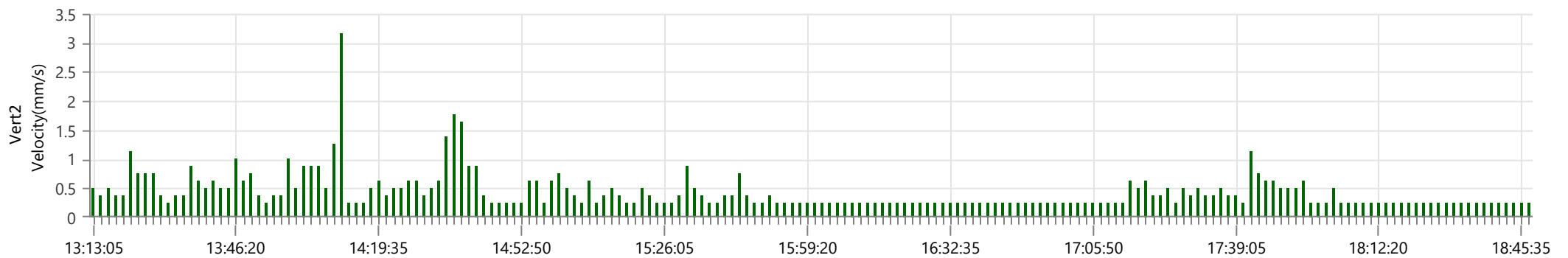
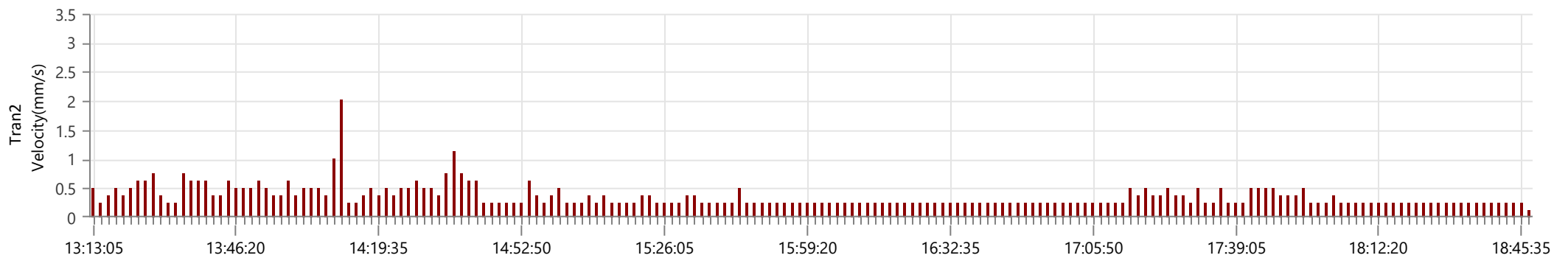
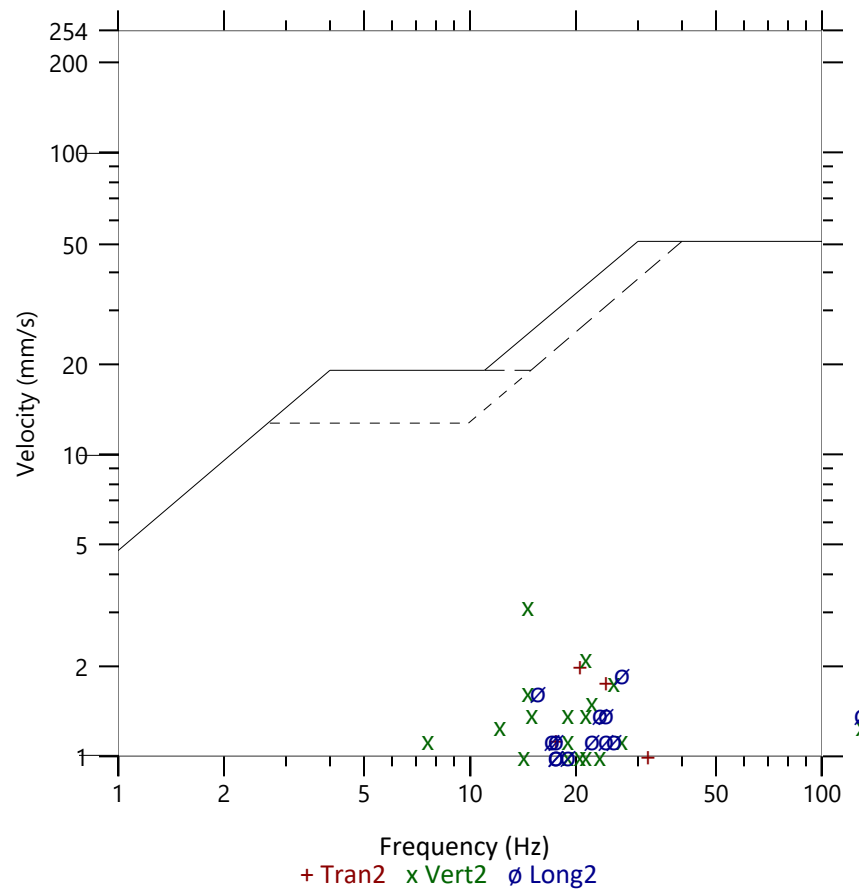
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.032 mm/s	3.175 mm/s	1.905 mm/s
Zero Crossing Frequency	20.5 Hz	14.6 Hz	26.9 Hz
Date	Oct 19, 2022	Oct 19, 2022	Oct 19, 2022
Time	14:10:50	14:10:50	14:10:50
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.9	4.3	4.2
Peak Vector Sum	3.238 mm/s at October 19, 2022 14:10:50		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 20, 2022 11:34:57
Finish October 20, 2022 19:03:08
Number of Intervals/Interval 5378.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221020113457.IDFH

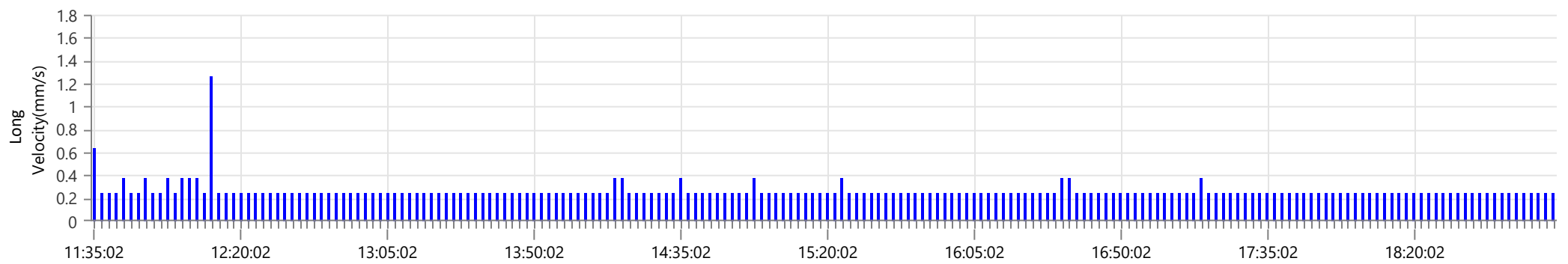
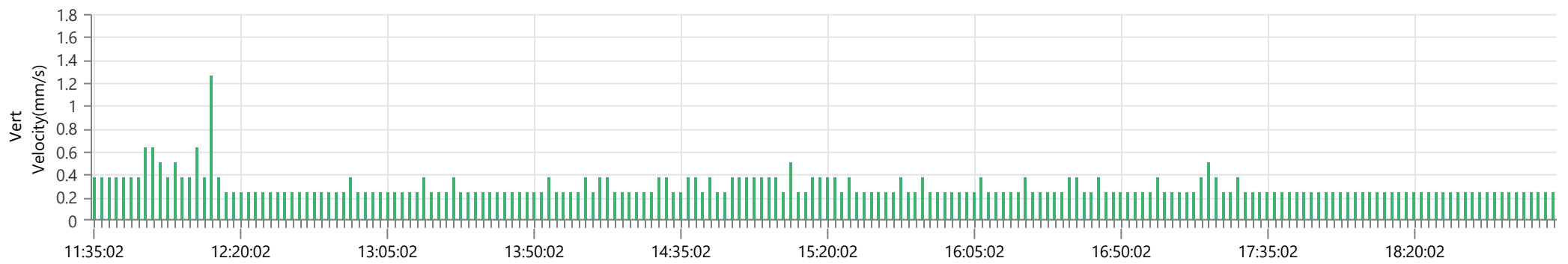
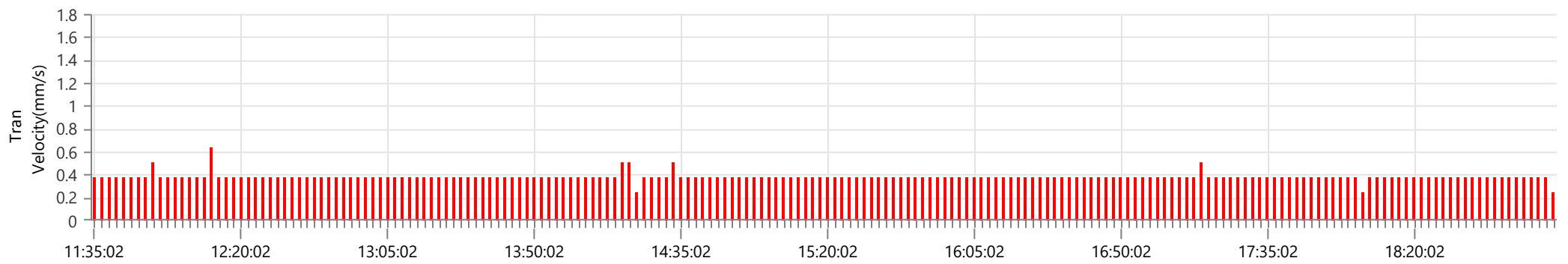
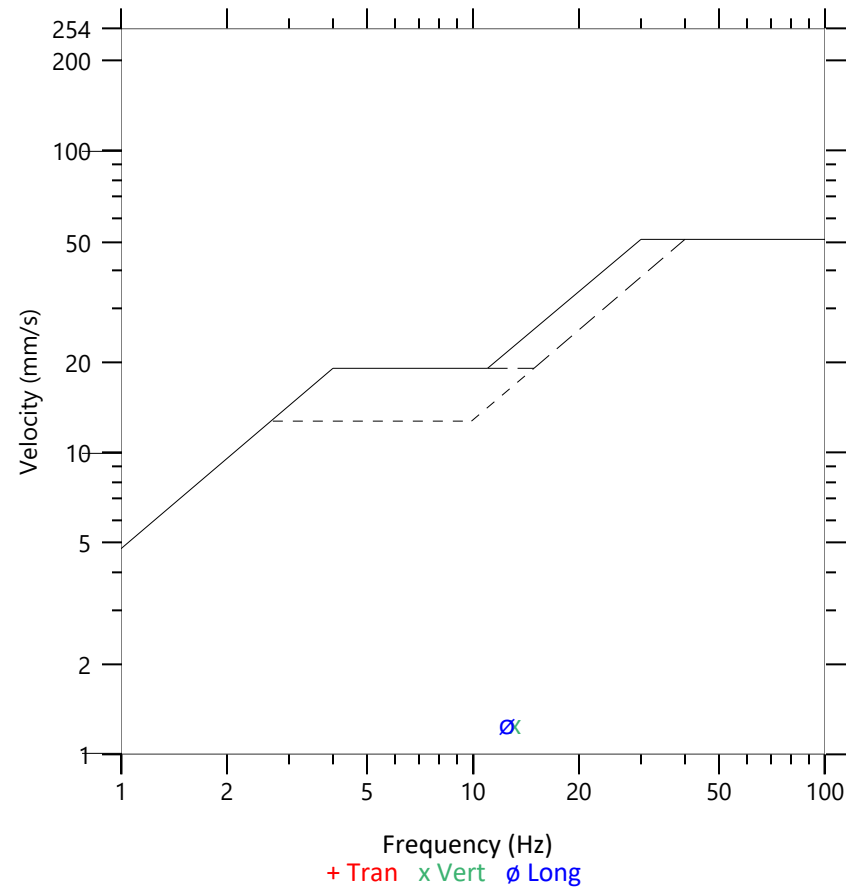
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.635 mm/s	1.270 mm/s	1.270 mm/s
Zero Crossing Frequency	13.8 Hz	13.1 Hz	12.5 Hz
Date	Oct 20, 2022	Oct 20, 2022	Oct 20, 2022
Time	12:12:27	12:11:47	12:11:47
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.2	3.8	3.9
Peak Vector Sum	1.636 mm/s at October 20, 2022 12:11:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 20, 2022 11:34:57
Finish October 20, 2022 19:03:08
Number of Intervals/Interval 5378.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221020113457.IDFH

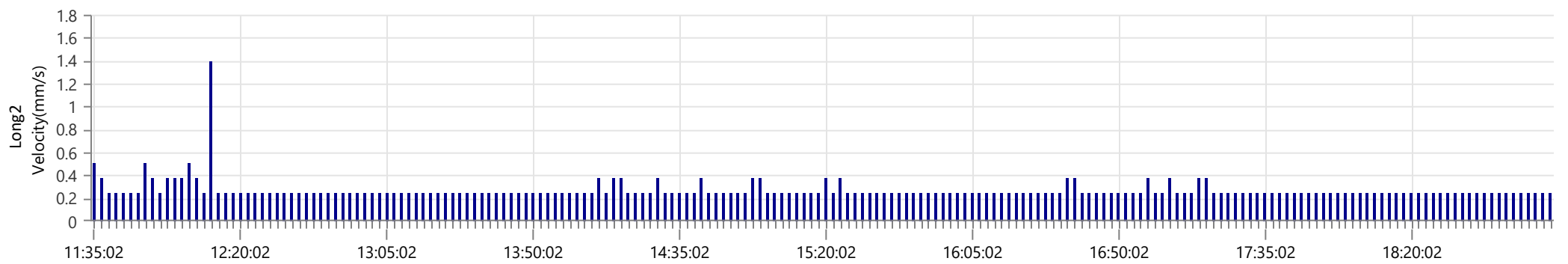
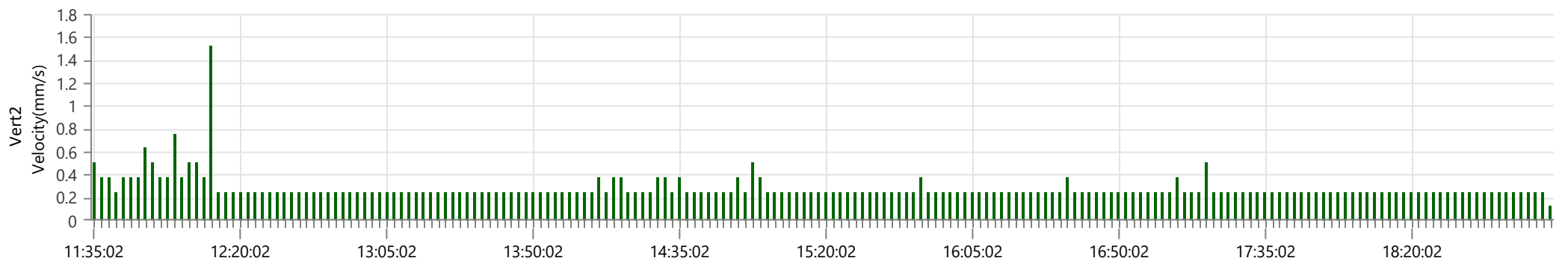
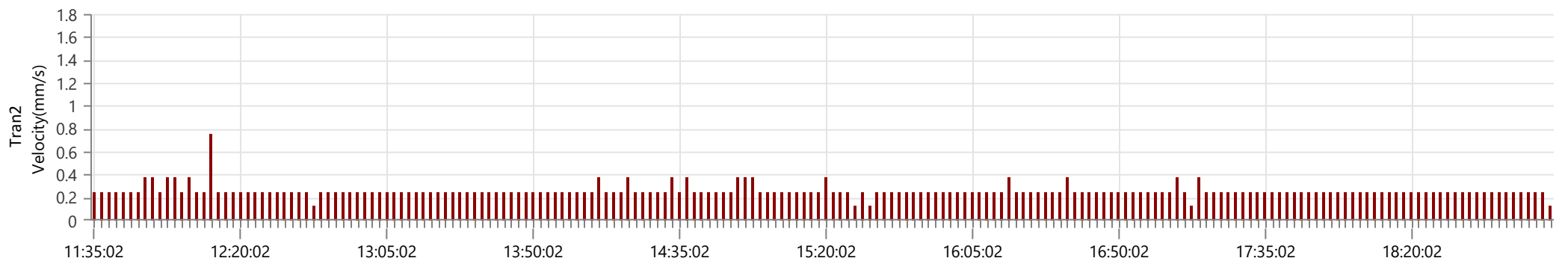
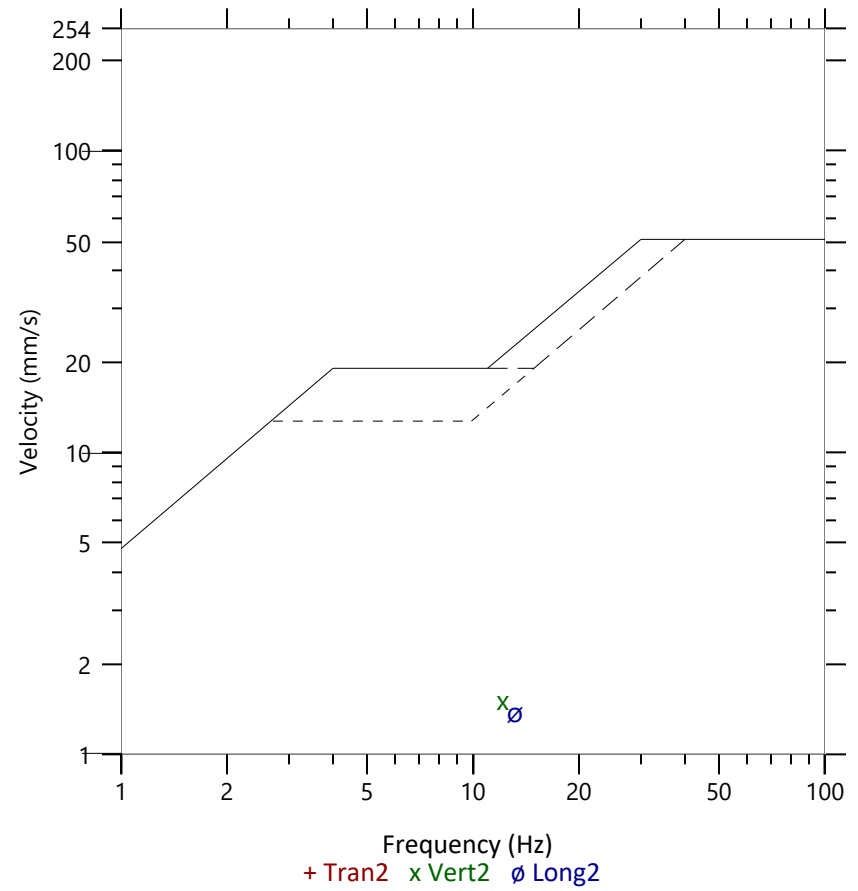
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.762 mm/s	1.524 mm/s	1.397 mm/s
Zero Crossing Frequency	12.8 Hz	12.2 Hz	13.1 Hz
Date	Oct 20, 2022	Oct 20, 2022	Oct 20, 2022
Time	12:12:32	12:11:47	12:11:47
Sensor Check	✘ Check	✔ Passed	✘ Check
Frequency	7.8 Hz	7.4 Hz	7.8 Hz
Overswing Ratio	3.8	4.4	4.2
Peak Vector Sum	1.922 mm/s at October 20, 2022 12:11:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 24, 2022 11:39:49
Finish October 24, 2022 18:55:52
Number of Intervals/Interval 5232.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221024113949.IDFH

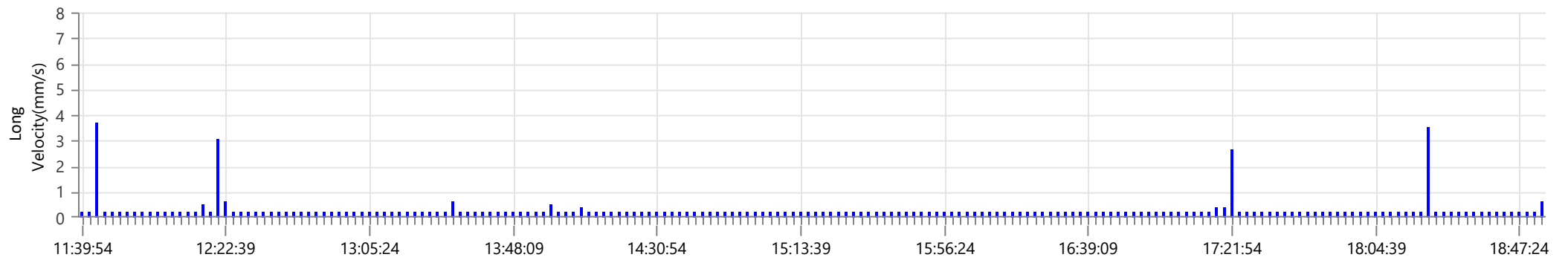
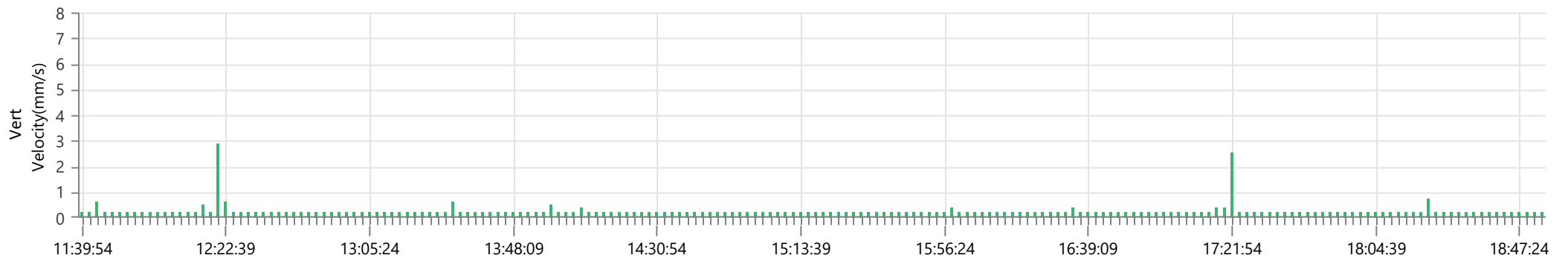
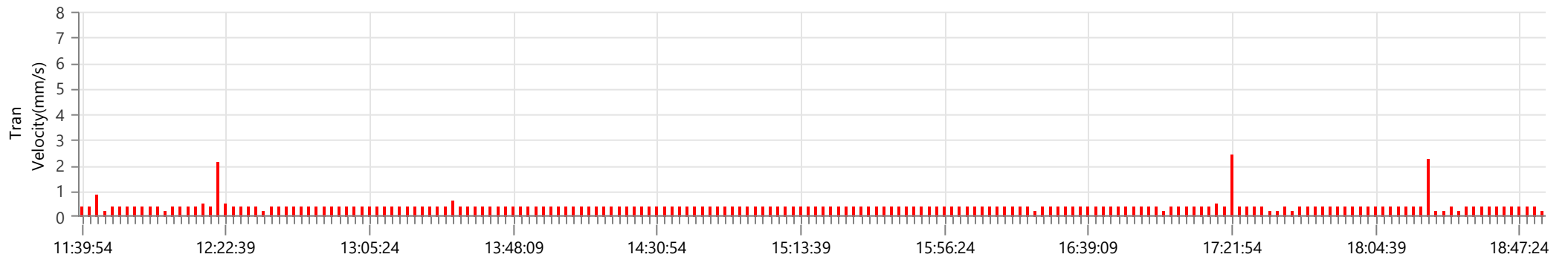
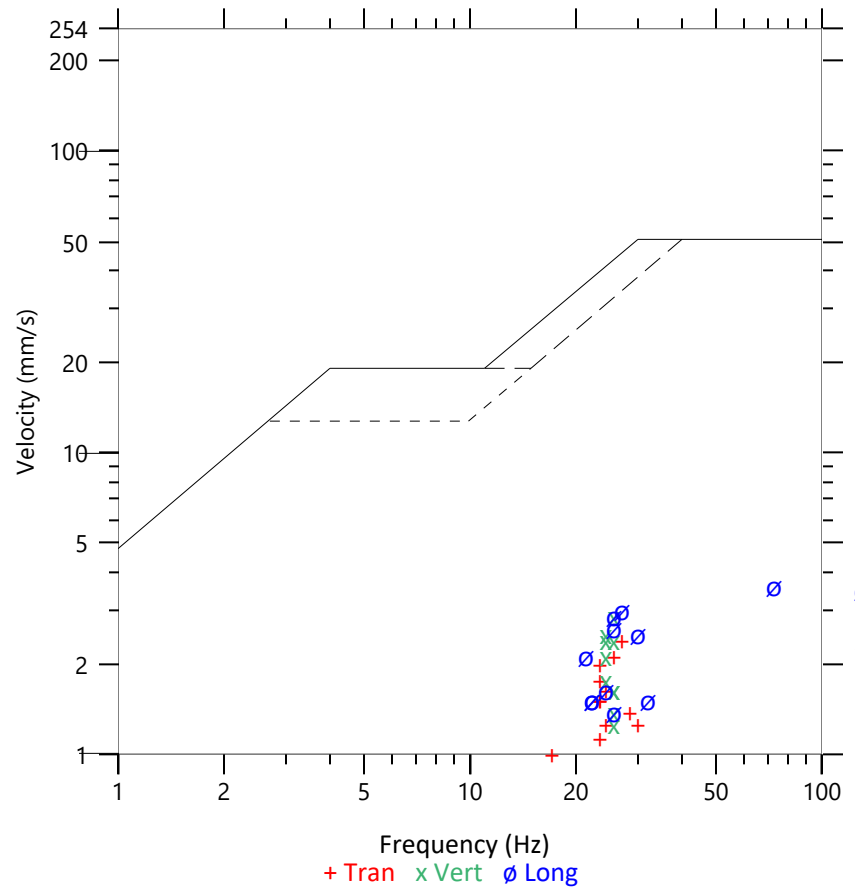
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.413 mm/s	2.921 mm/s	3.683 mm/s
Zero Crossing Frequency	26.9 Hz	25.6 Hz	73.1 Hz
Date	Oct 24, 2022	Oct 24, 2022	Oct 24, 2022
Time	17:22:29	12:21:54	11:45:04
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	4.1	3.8	3.9
Peak Vector Sum	3.842 mm/s at October 24, 2022 11:45:04		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 24, 2022 11:39:49
Finish October 24, 2022 18:55:52
Number of Intervals/Interval 5232.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221024113949.IDFH

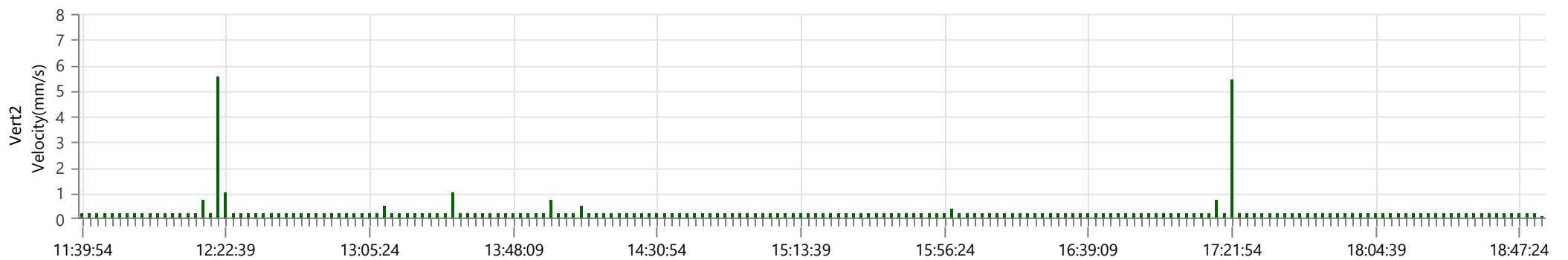
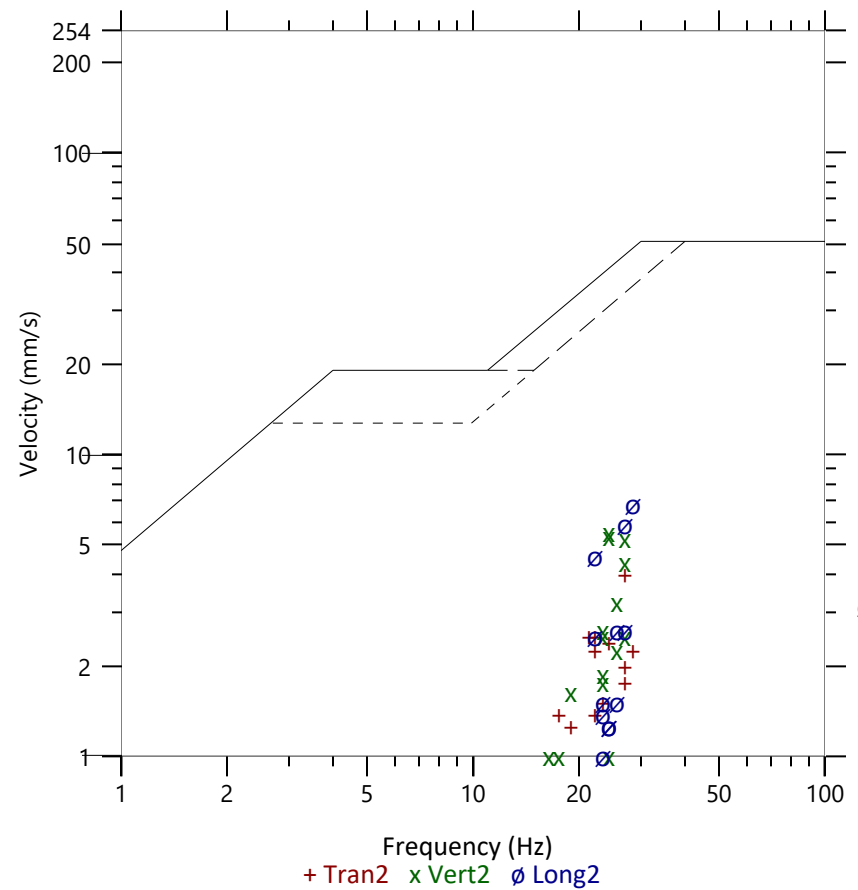
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	4.064 mm/s	5.588 mm/s	6.985 mm/s
Zero Crossing Frequency	26.9 Hz	24.4 Hz	28.4 Hz
Date	Oct 24, 2022	Oct 24, 2022	Oct 24, 2022
Time	12:21:54	12:21:54	12:21:59
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.8	4.4	4.2
Peak Vector Sum	7.544 mm/s at October 24, 2022 12:21:59		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 25, 2022 10:30:59
Finish October 25, 2022 18:39:06
Number of Intervals/Interval 5857.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221025103059.IDFH

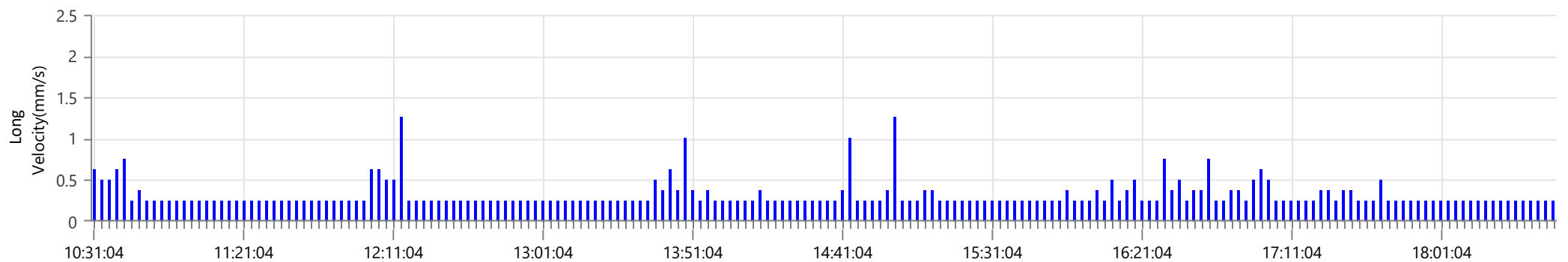
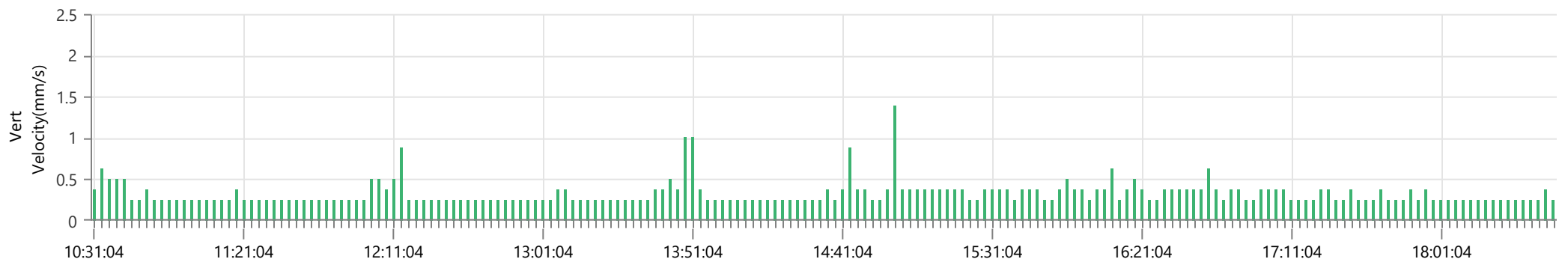
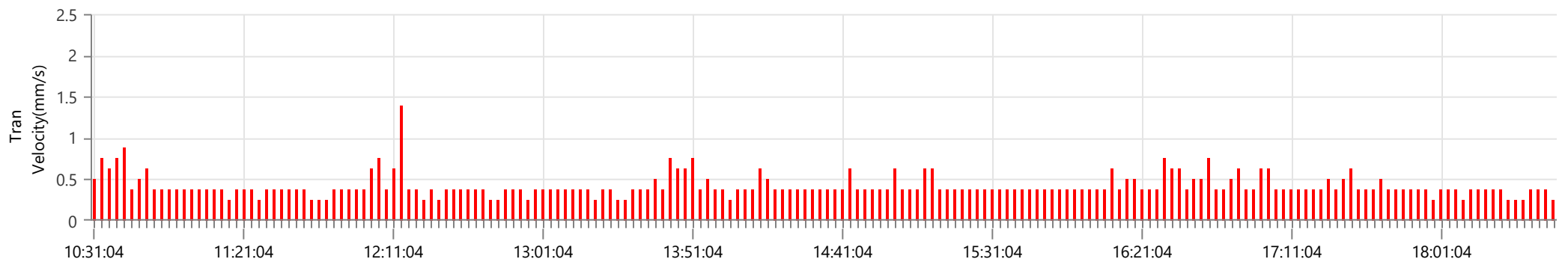
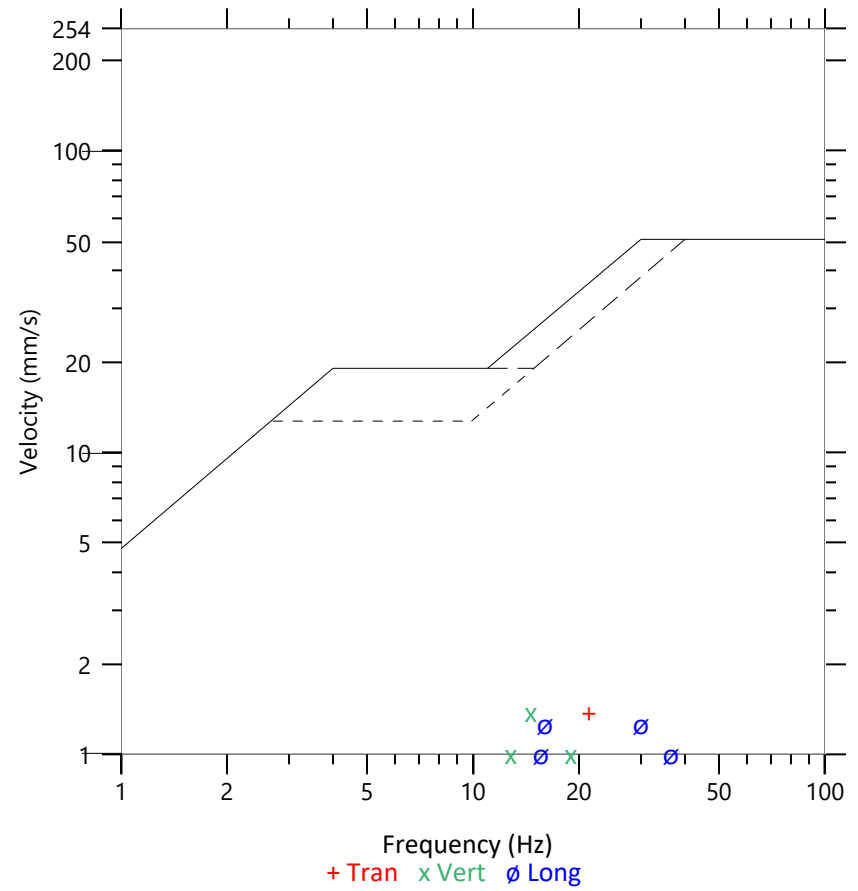
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.397 mm/s	1.397 mm/s	1.270 mm/s
Zero Crossing Frequency	21.3 Hz	14.6 Hz	30.1 Hz
Date	Oct 25, 2022	Oct 25, 2022	Oct 25, 2022
Time	12:14:09	14:58:59	12:14:09
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.2 Hz
Overswing Ratio	3.9	4.4	4.2
Peak Vector Sum	1.636 mm/s at October 25, 2022 14:58:59		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 25, 2022 10:30:59
Finish October 25, 2022 18:39:06
Number of Intervals/Interval 5857.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221025103059.IDFH

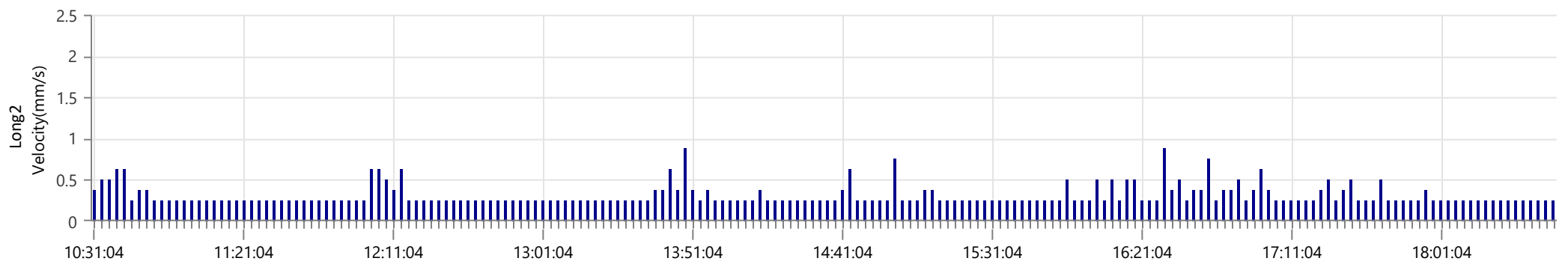
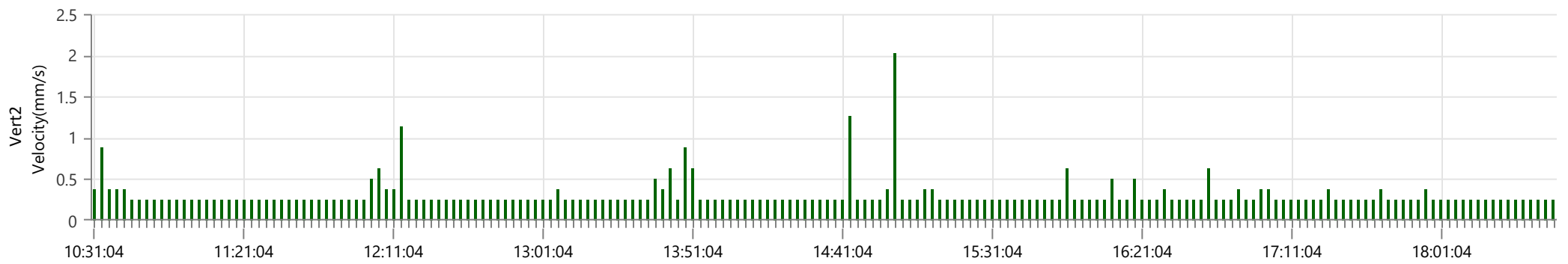
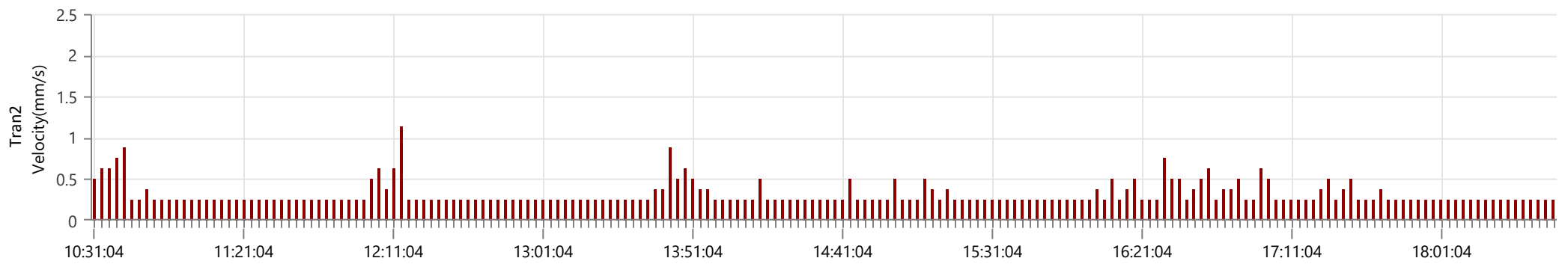
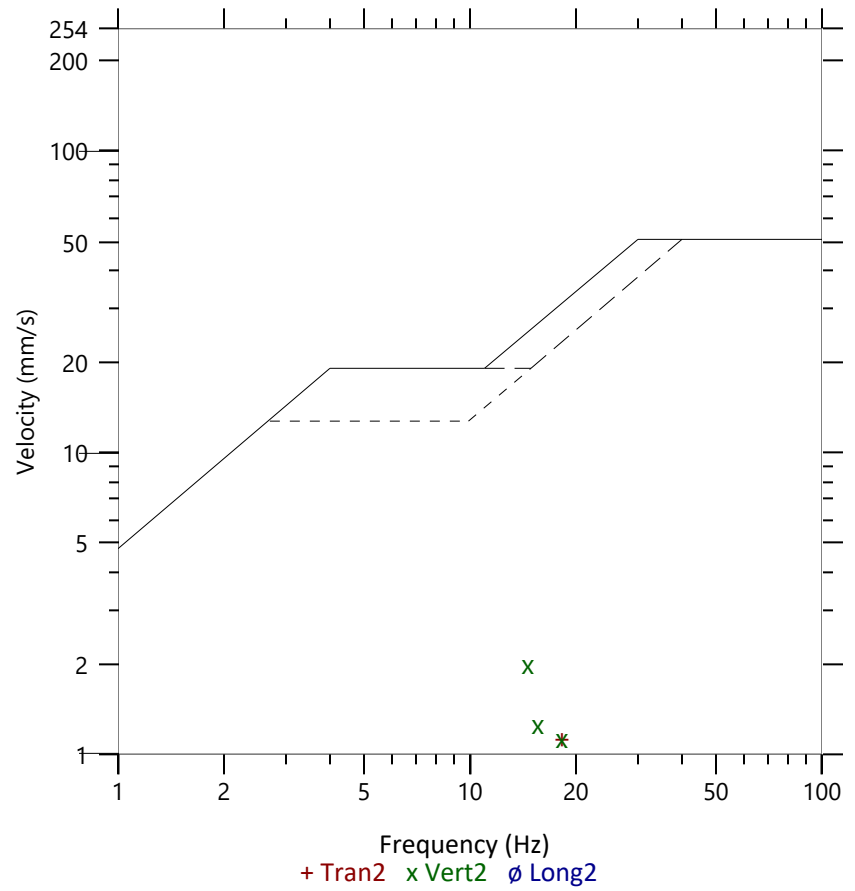
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.143 mm/s	2.032 mm/s	0.889 mm/s
Zero Crossing Frequency	18.3 Hz	14.6 Hz	11.1 Hz
Date	Oct 25, 2022	Oct 25, 2022	Oct 25, 2022
Time	12:14:09	14:58:59	13:49:09
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.5 Hz	7.4 Hz
Overswing Ratio	4.2	3.9	4.0
Peak Vector Sum	2.040 mm/s at October 25, 2022 14:58:59		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 26, 2022 09:24:17
Finish October 26, 2022 18:45:44
Number of Intervals/Interval 6737.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221026092417.IDFH

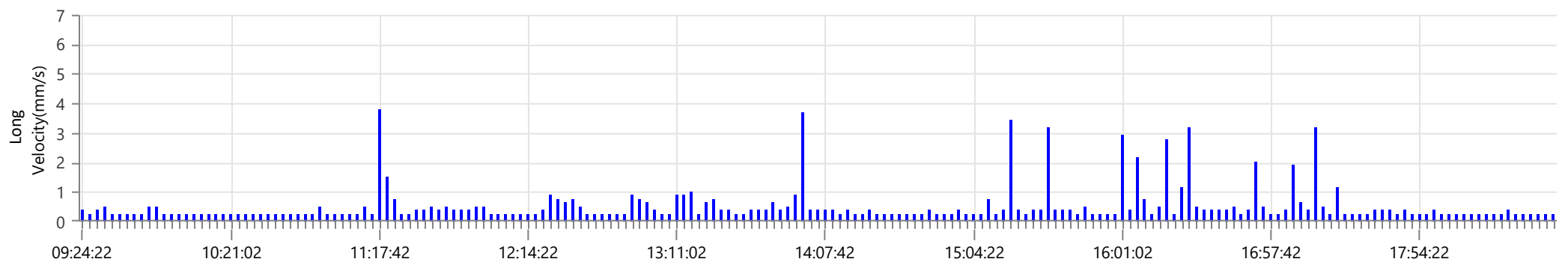
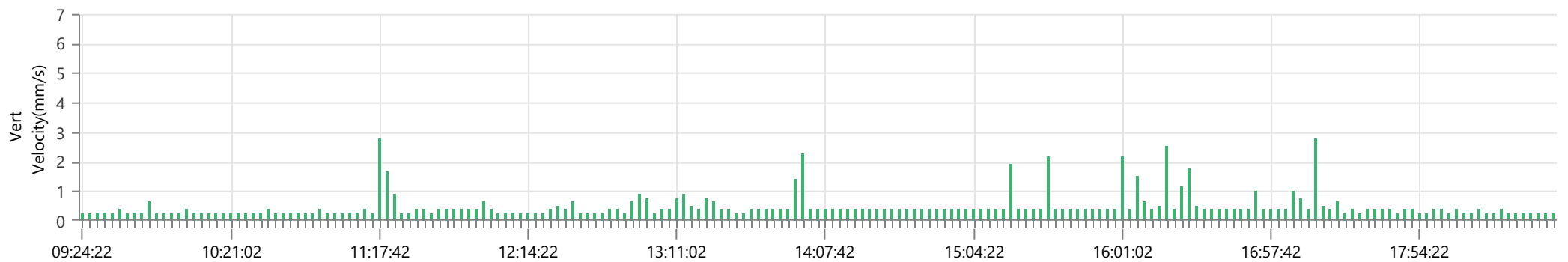
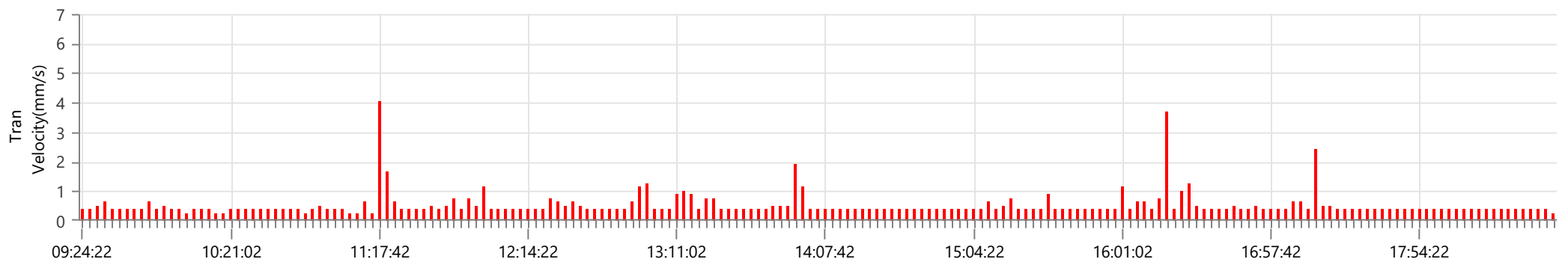
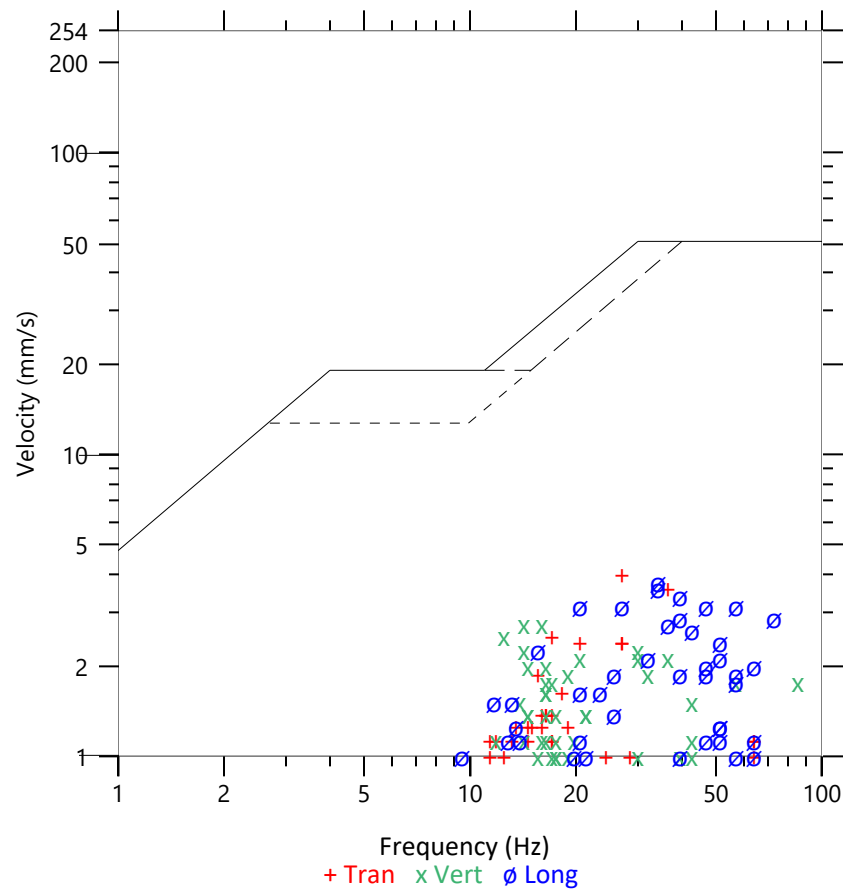
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.064 mm/s	2.794 mm/s	3.810 mm/s
Zero Crossing Frequency	26.9 Hz	14.2 Hz	34.1 Hz
Date	Oct 26, 2022	Oct 26, 2022	Oct 26, 2022
Time	11:19:57	11:20:02	11:19:57
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.3 Hz
Overswing Ratio	3.8	4.3	4.1
Peak Vector Sum	4.560 mm/s at October 26, 2022 11:19:57		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 26, 2022 09:24:17
Finish October 26, 2022 18:45:44
Number of Intervals/Interval 6737.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221026092417.IDFH

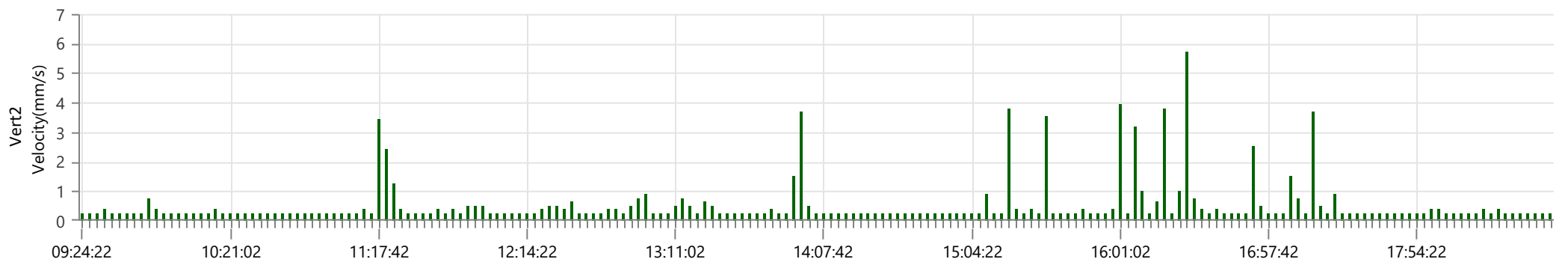
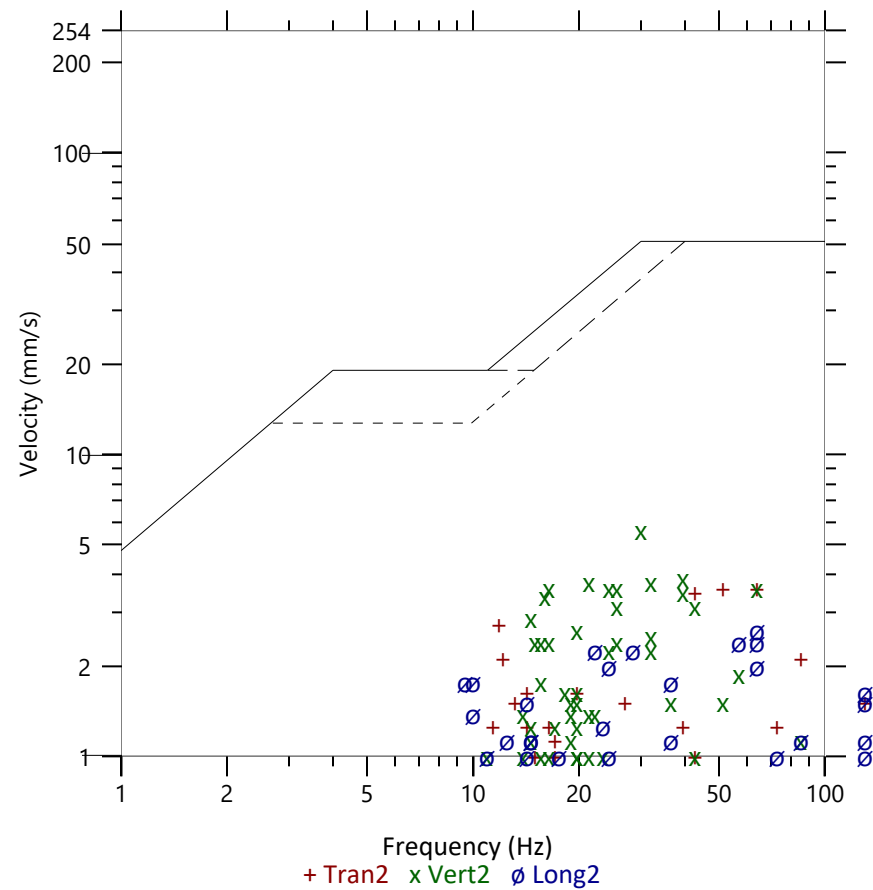
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.683 mm/s	5.715 mm/s	2.667 mm/s
Zero Crossing Frequency	51.2 Hz	30.1 Hz	64.0 Hz
Date	Oct 26, 2022	Oct 26, 2022	Oct 26, 2022
Time	16:01:27	16:29:07	16:29:12
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.2	3.8	4.0
Peak Vector Sum	6.039 mm/s at October 26, 2022 16:29:07		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 27, 2022 09:23:53
Finish October 27, 2022 19:06:16
Number of Intervals/Interval 6988.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by InstanTel
Event File Name BA19604_20221027092353.IDFH

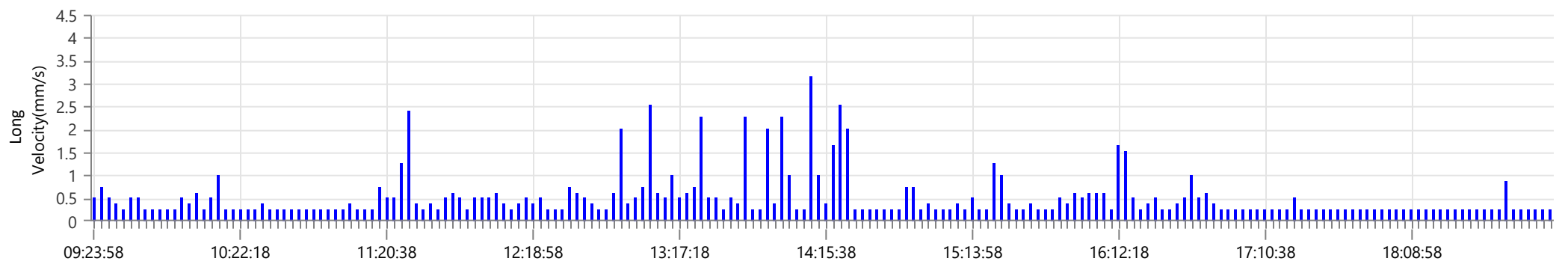
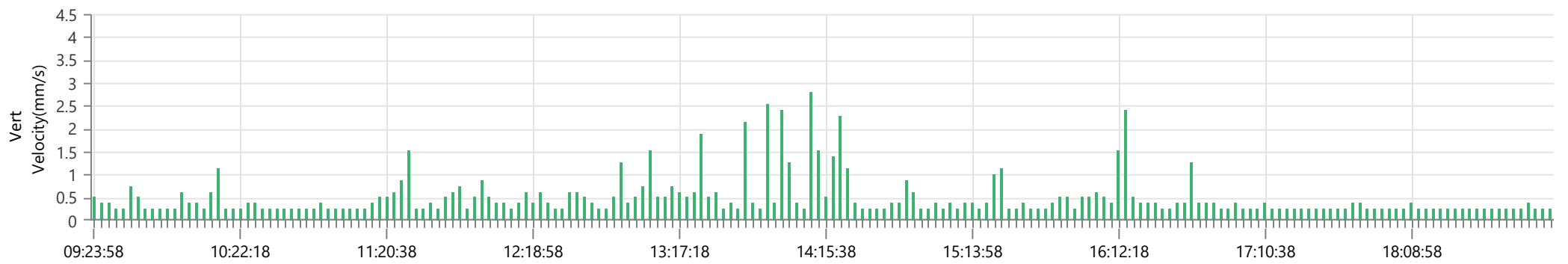
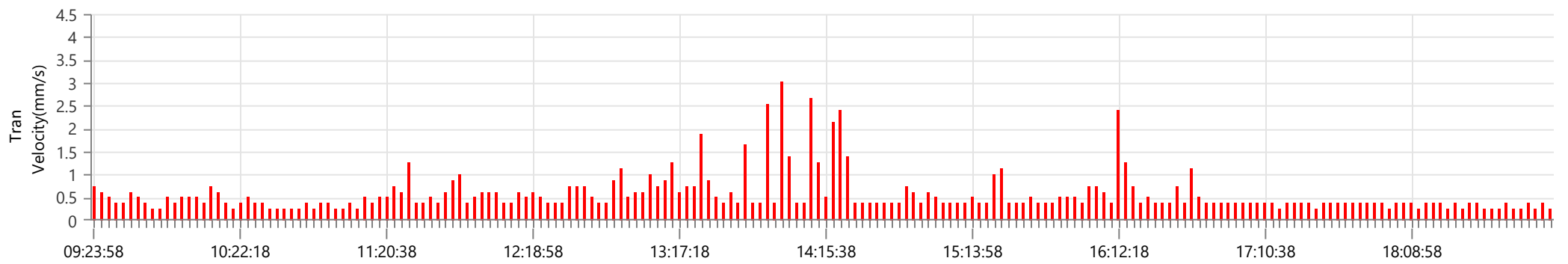
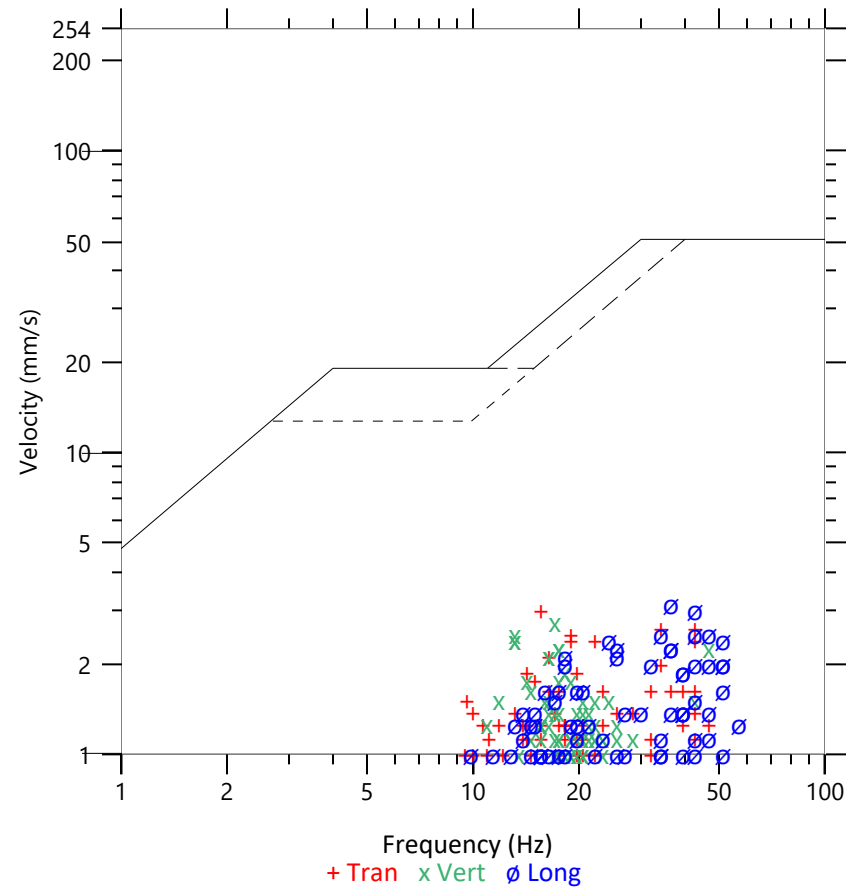
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	3.048 mm/s	2.794 mm/s	3.175 mm/s
Zero Crossing Frequency	15.5 Hz	17.1 Hz	36.6 Hz
Date	Oct 27, 2022	Oct 27, 2022	Oct 27, 2022
Time	13:59:23	14:12:18	14:12:28
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.8	4.3	4.0
Peak Vector Sum	3.945 mm/s at October 27, 2022 14:12:28		

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 27, 2022 09:23:53
Finish October 27, 2022 19:06:16
Number of Intervals/Interval 6988.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221027092353.IDFH

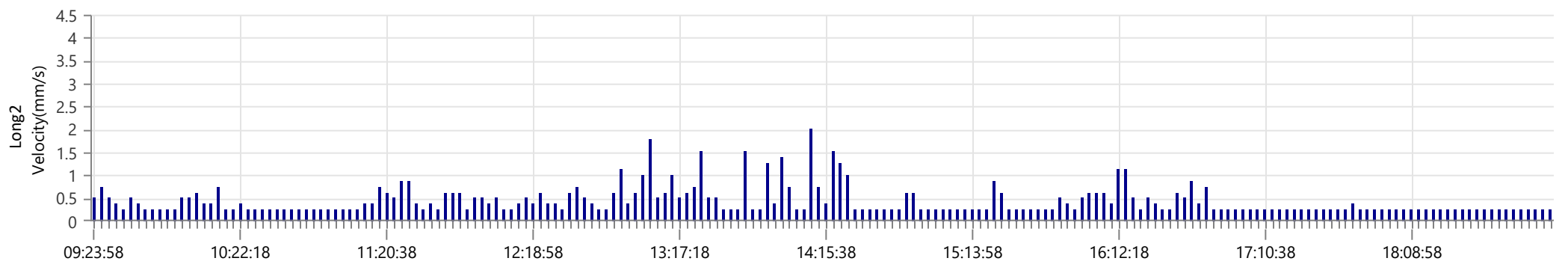
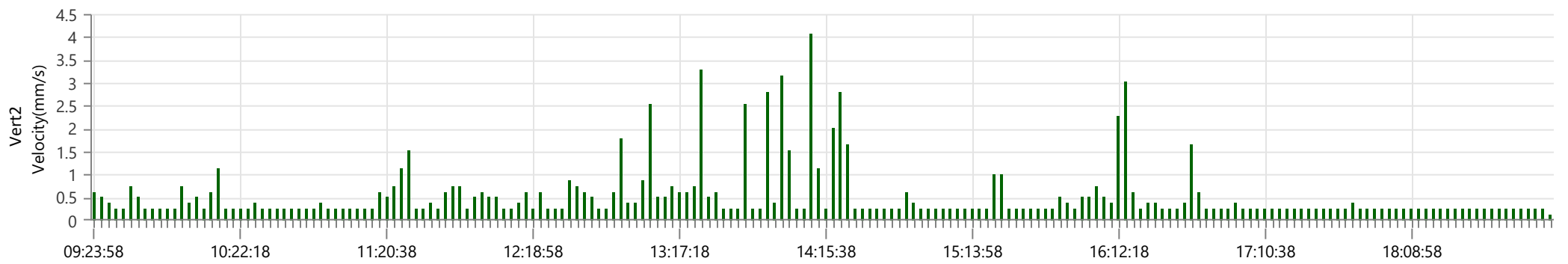
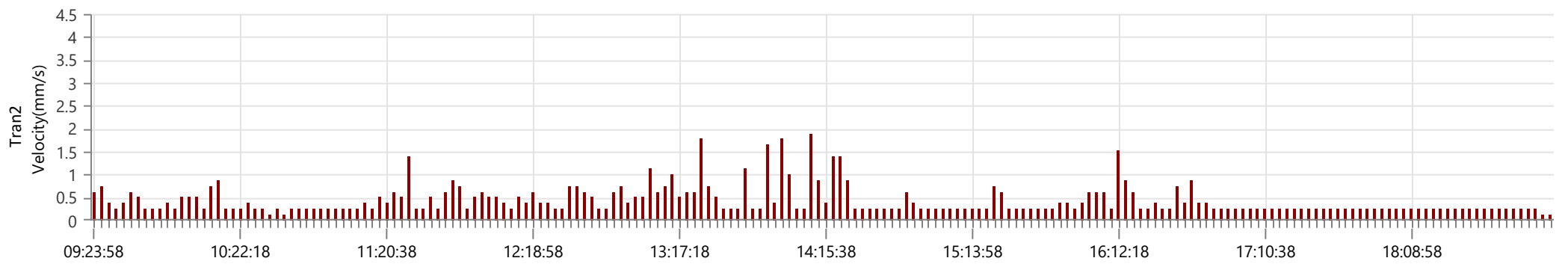
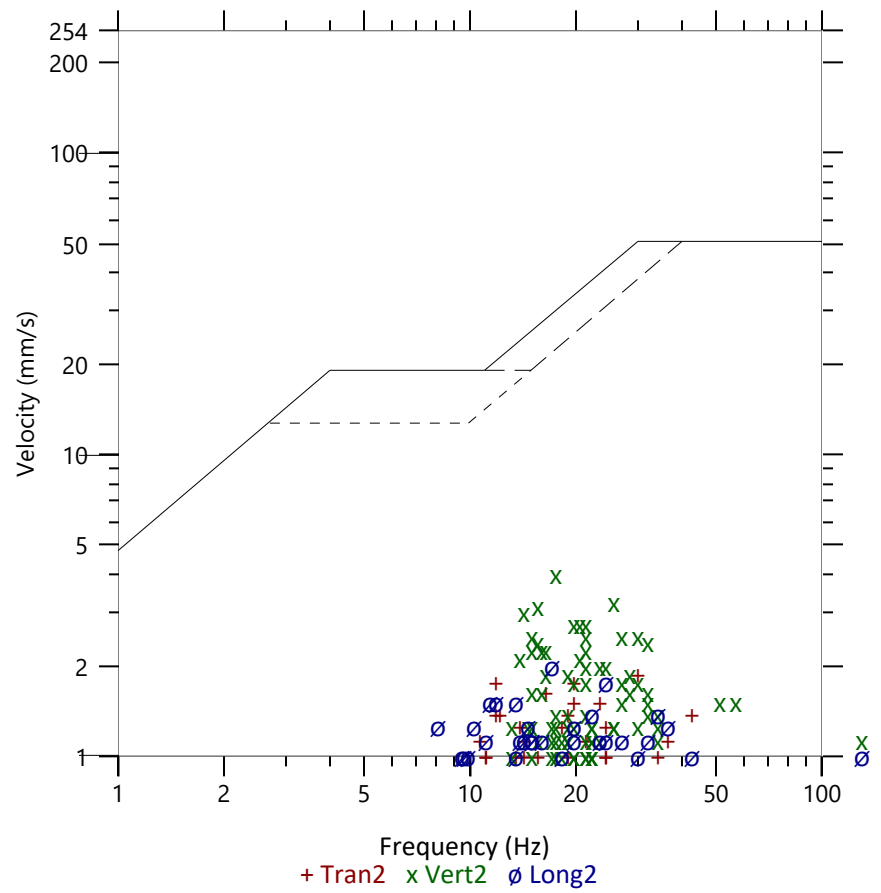
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.905 mm/s	4.064 mm/s	2.032 mm/s
Zero Crossing Frequency	30.1 Hz	17.7 Hz	17.1 Hz
Date	Oct 27, 2022	Oct 27, 2022	Oct 27, 2022
Time	14:12:23	14:12:18	14:12:18
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.6 Hz
Overswing Ratio	4.1	3.8	3.9
Peak Vector Sum	4.137 mm/s at October 27, 2022 14:12:18		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 28, 2022 09:23:52
Finish October 28, 2022 19:18:01
Number of Intervals/Interval 7129.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221028092352.IDFH

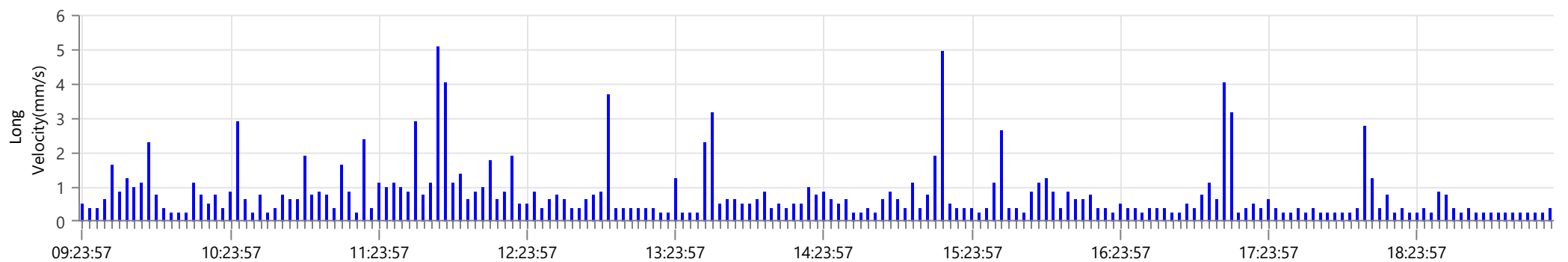
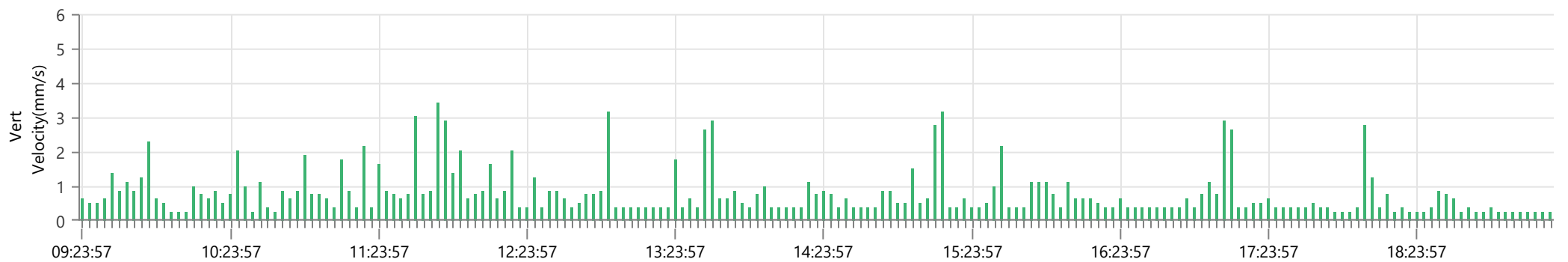
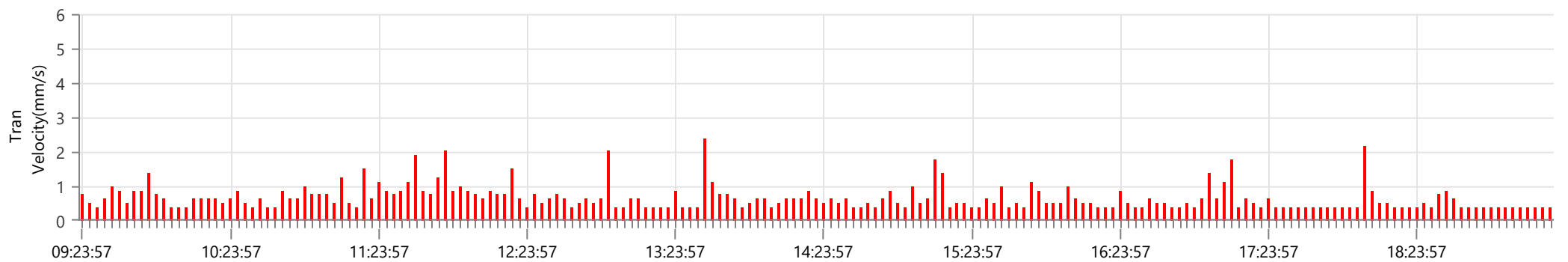
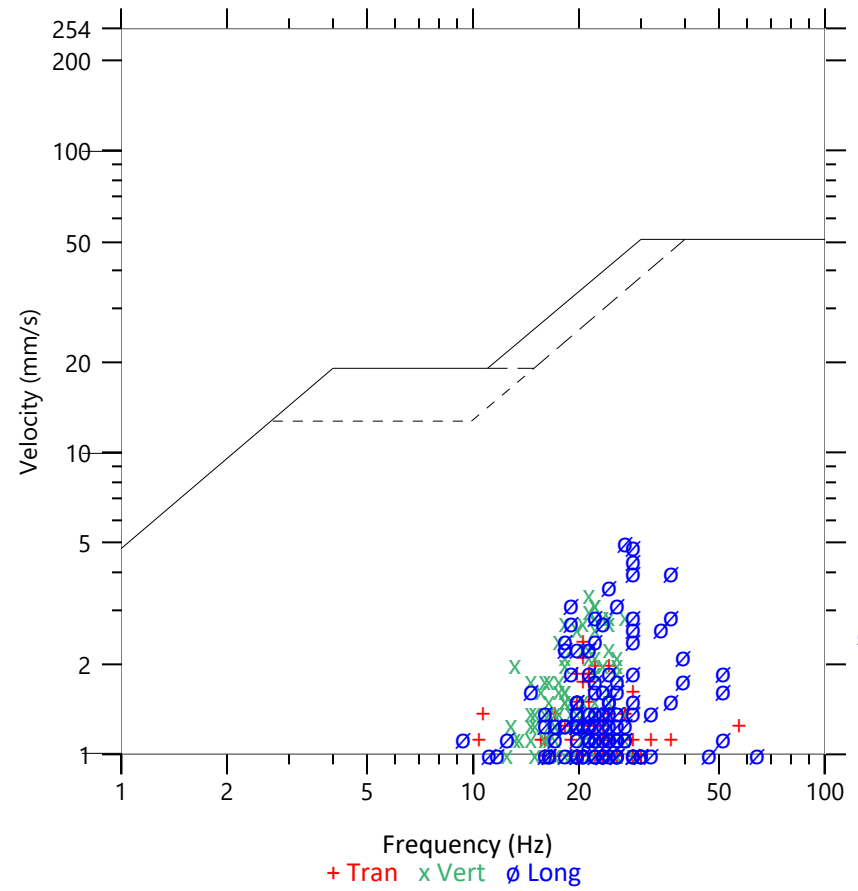
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.413 mm/s	3.429 mm/s	5.080 mm/s
Zero Crossing Frequency	20.5 Hz	21.3 Hz	26.9 Hz
Date	Oct 28, 2022	Oct 28, 2022	Oct 28, 2022
Time	13:38:52	11:48:47	11:48:47
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.1	3.8	3.8
Peak Vector Sum	5.143 mm/s at October 28, 2022 11:48:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 28, 2022 09:23:52
Finish October 28, 2022 19:18:01
Number of Intervals/Interval 7129.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221028092352.IDFH

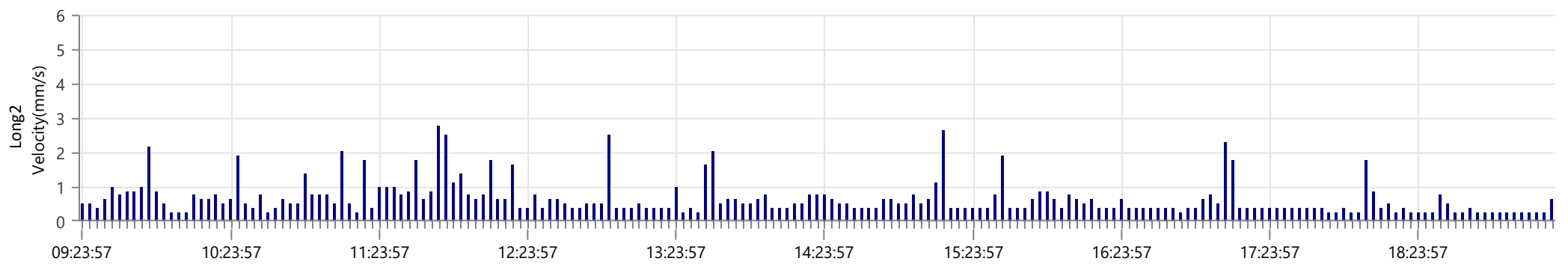
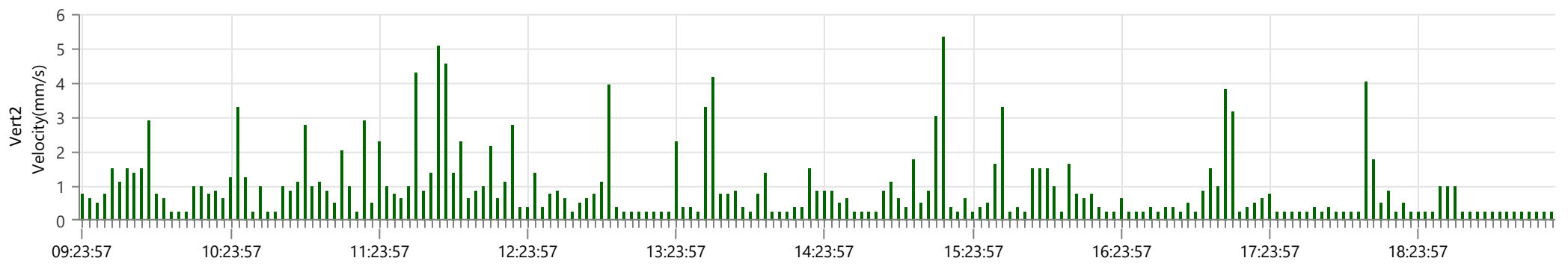
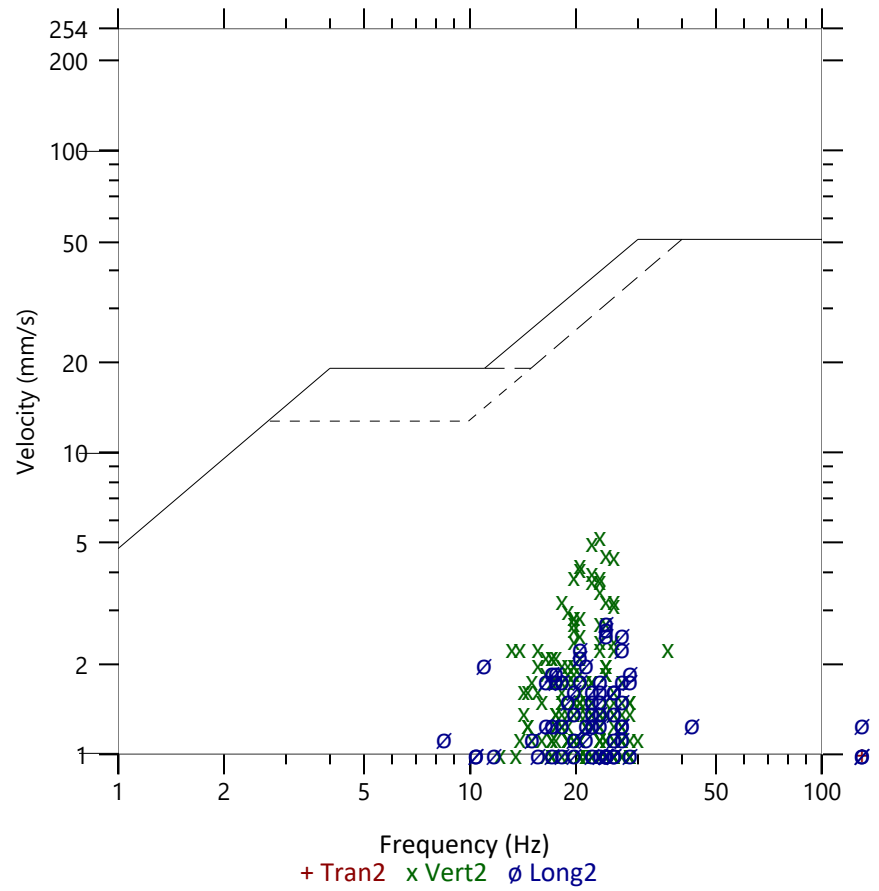
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.016 mm/s	5.334 mm/s	2.794 mm/s
Zero Crossing Frequency	>100 Hz	23.3 Hz	24.4 Hz
Date	Oct 28, 2022	Oct 28, 2022	Oct 28, 2022
Time	10:28:12	15:13:37	11:48:47
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.5 Hz	7.3 Hz
Overswing Ratio	5.3	4.3	4.2
Peak Vector Sum	5.471 mm/s at October 28, 2022 11:48:47		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 29, 2022 10:02:30
Finish October 29, 2022 19:22:27
Number of Intervals/Interval 6719.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221029100230.IDFH

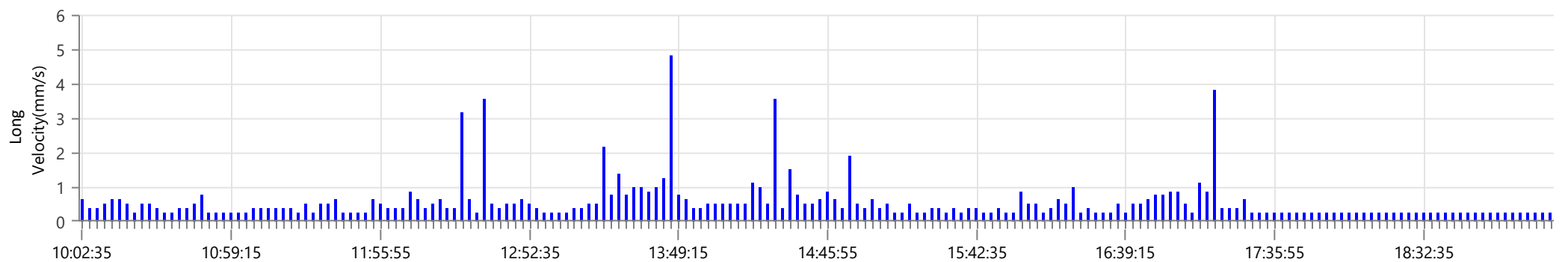
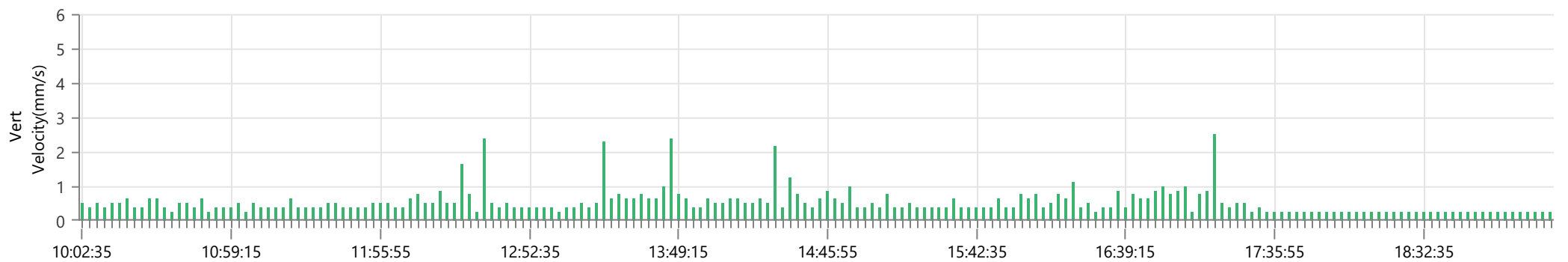
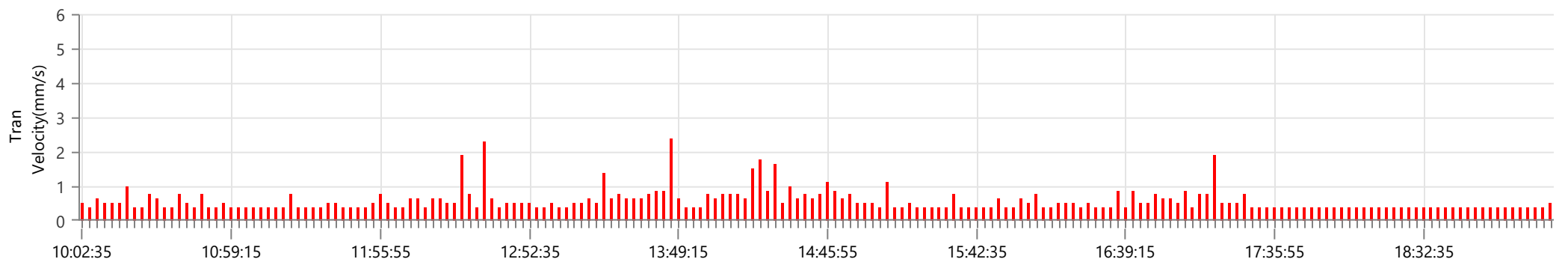
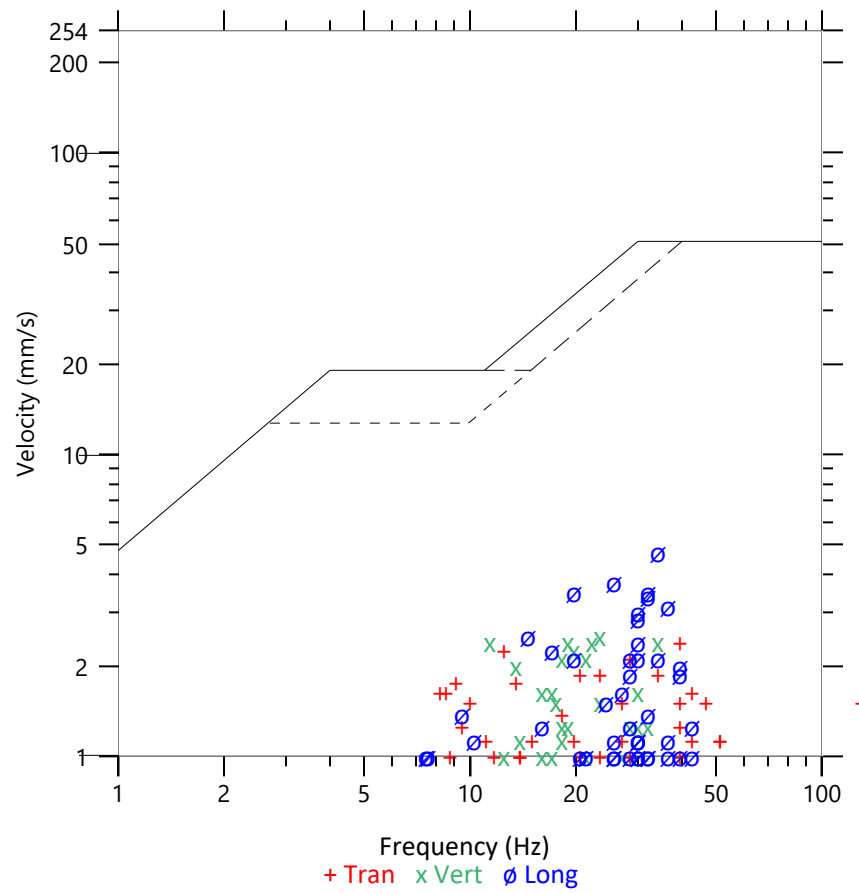
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.413 mm/s	2.540 mm/s	4.826 mm/s
Zero Crossing Frequency	39.4 Hz	23.3 Hz	34.1 Hz
Date	Oct 29, 2022	Oct 29, 2022	Oct 29, 2022
Time	13:47:40	17:13:50	13:47:40
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.3 Hz
Overswing Ratio	4.2	3.8	3.9
Peak Vector Sum	5.199 mm/s at October 29, 2022 13:47:40		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 29, 2022 10:02:30
Finish October 29, 2022 19:22:27
Number of Intervals/Interval 6719.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.2 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221029100230.IDFH

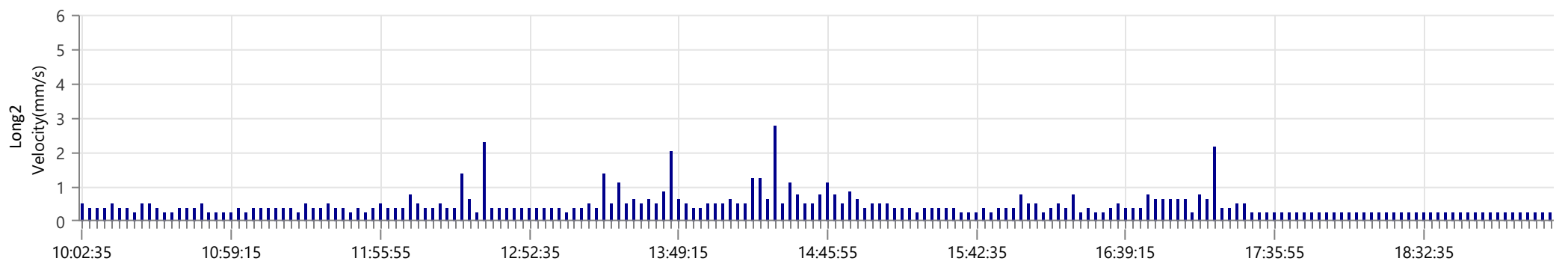
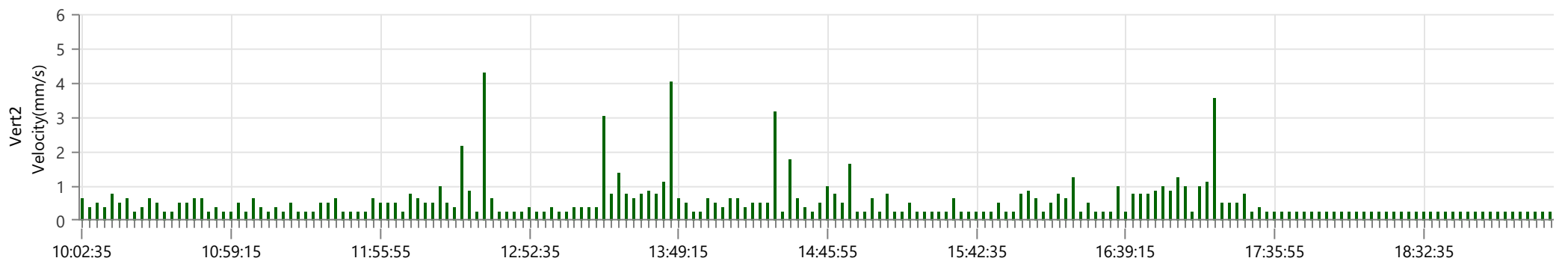
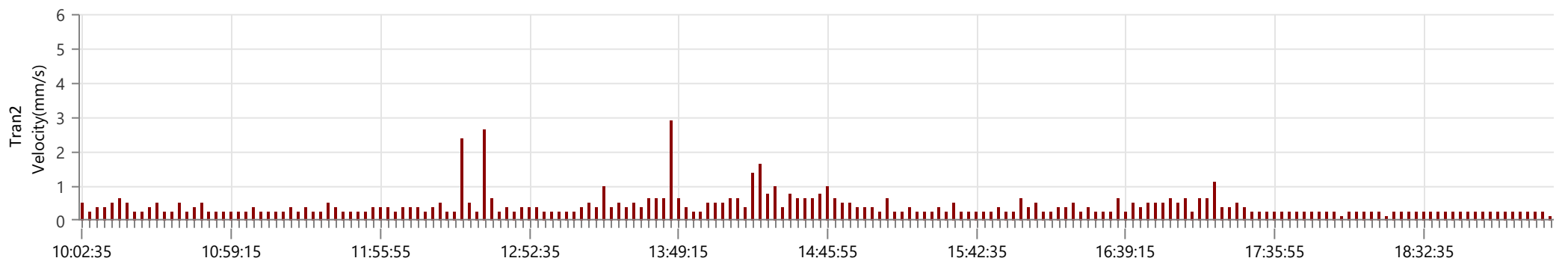
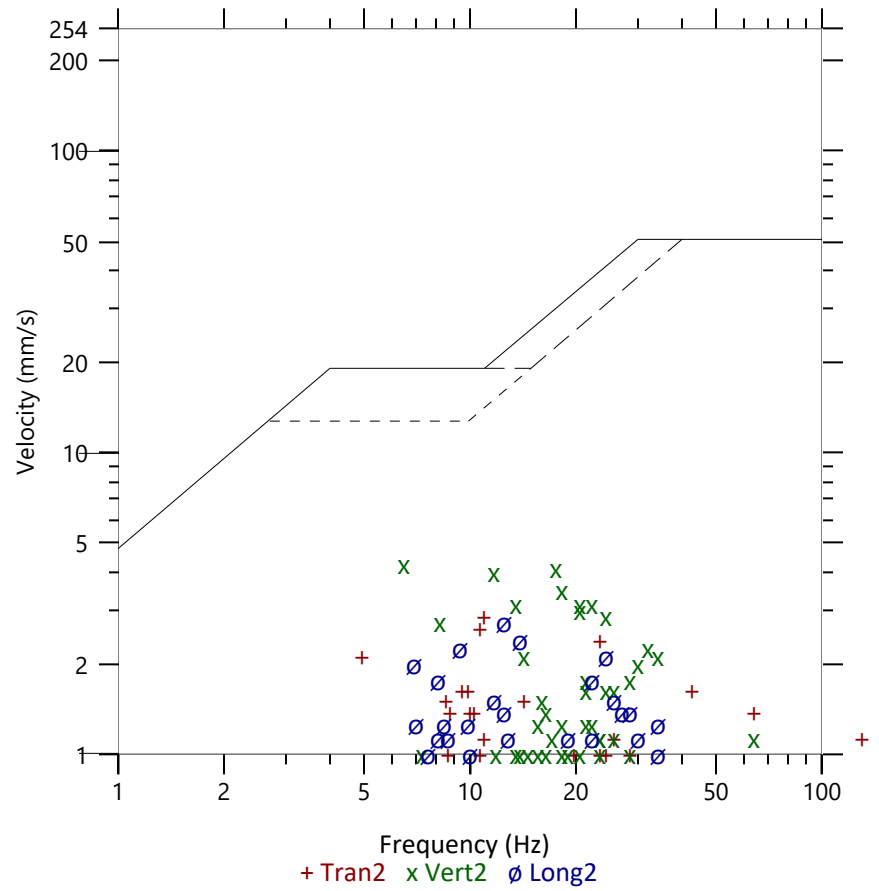
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	2.921 mm/s	4.318 mm/s	2.794 mm/s
Zero Crossing Frequency	10.9 Hz	6.5 Hz	12.5 Hz
Date	Oct 29, 2022	Oct 29, 2022	Oct 29, 2022
Time	13:47:40	12:38:00	14:27:20
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.4 Hz	7.4 Hz
Overswing Ratio	3.9	4.4	4.3
Peak Vector Sum	4.551 mm/s at October 29, 2022 12:38:00		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 31, 2022 09:49:04
Finish October 31, 2022 19:09:41
Number of Intervals/Interval 6727.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221031094904.IDFH

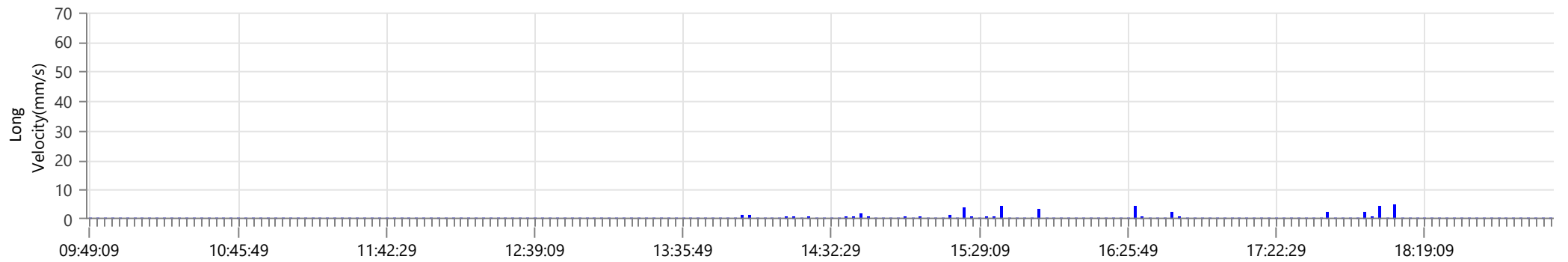
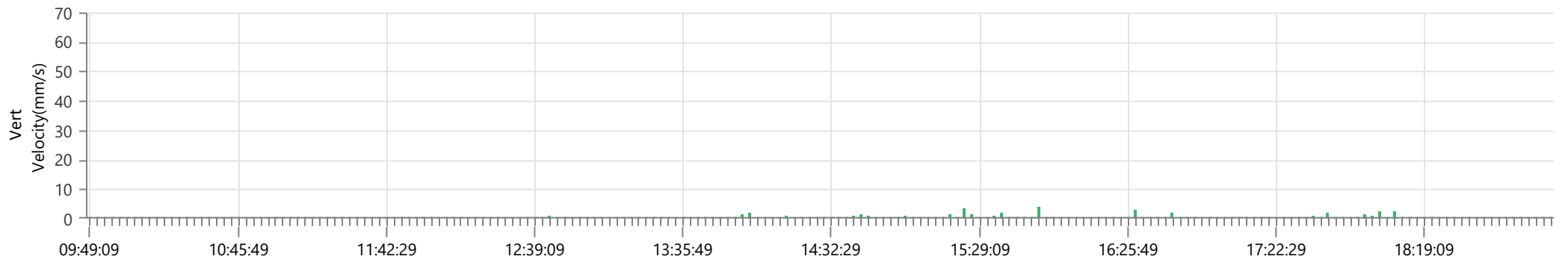
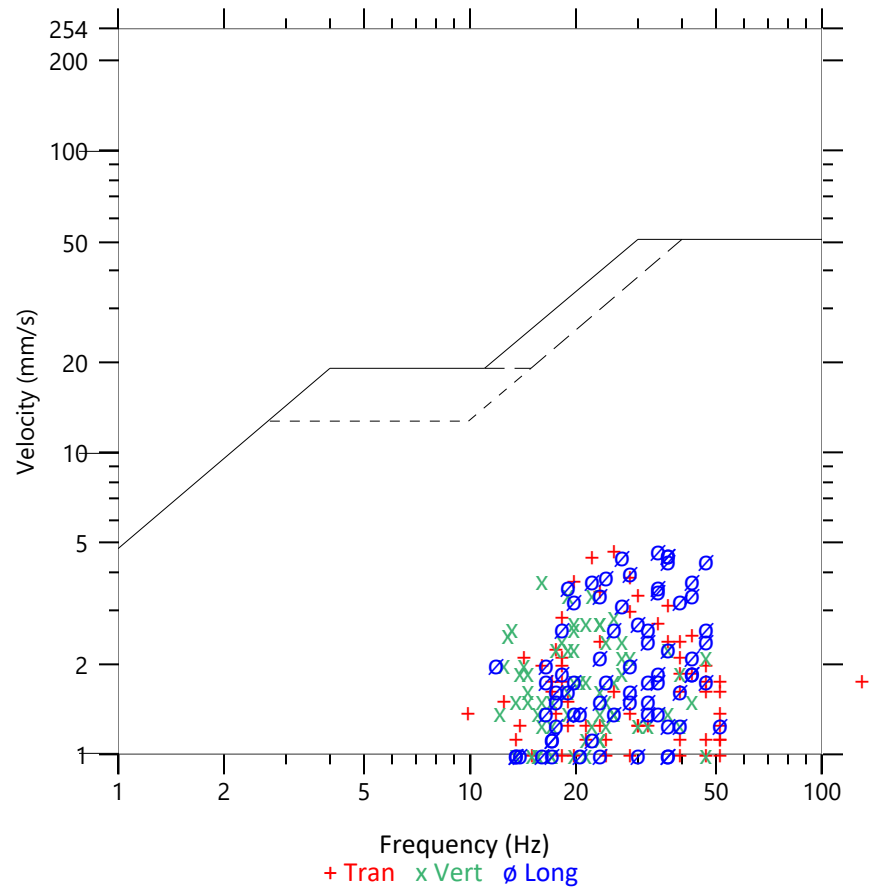
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	4.826 mm/s	3.810 mm/s	4.826 mm/s
Zero Crossing Frequency	25.6 Hz	16.0 Hz	34.1 Hz
Date	Oct 31, 2022	Oct 31, 2022	Oct 31, 2022
Time	15:52:54	15:52:54	18:08:34
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.9 Hz
Overswing Ratio	3.8	4.4	4.1
Peak Vector Sum	6.233 mm/s at October 31, 2022 15:52:54		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 31, 2022 09:49:04
Finish October 31, 2022 19:09:41
Number of Intervals/Interval 6727.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221031094904.IDFH

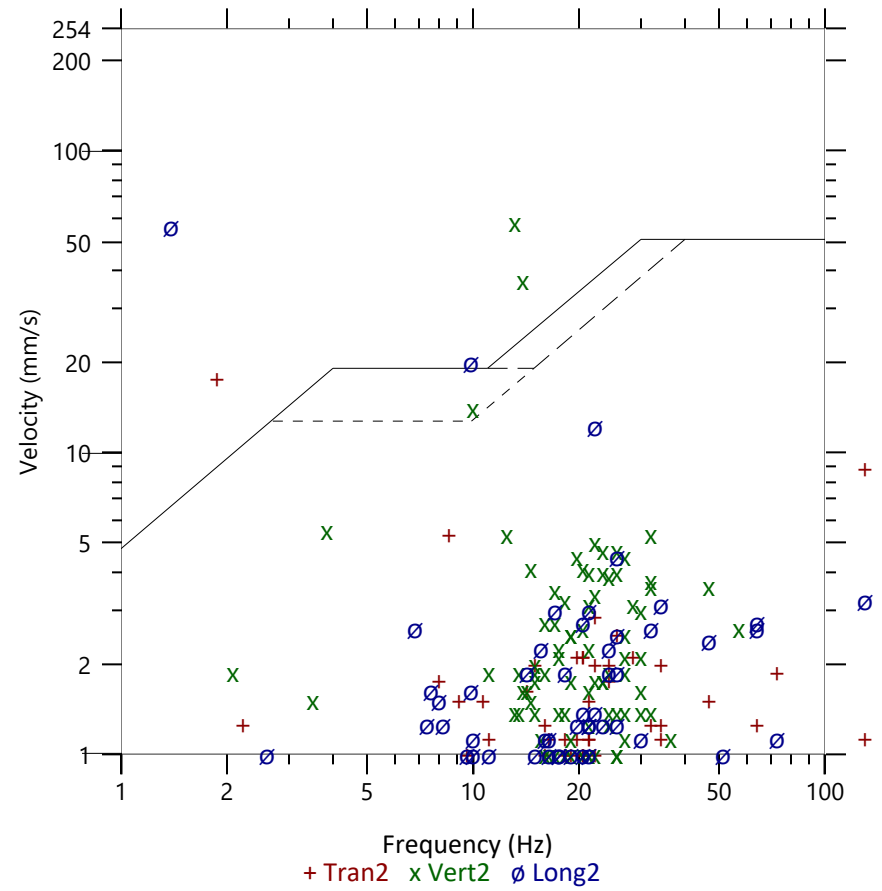
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	17.780 mm/s	58.801 mm/s	57.023 mm/s
Zero Crossing Frequency	1.9 Hz	13.1 Hz	1.4 Hz
Date	Oct 31, 2022	Oct 31, 2022	Oct 31, 2022
Time	18:03:24	18:03:24	18:03:24
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.3	3.9	4.0
Peak Vector Sum	76.261 mm/s at October 31, 2022 18:03:24		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 1, 2022 09:23:54
Finish November 1, 2022 19:05:22
Number of Intervals/Interval 6977.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221101092354.IDFH

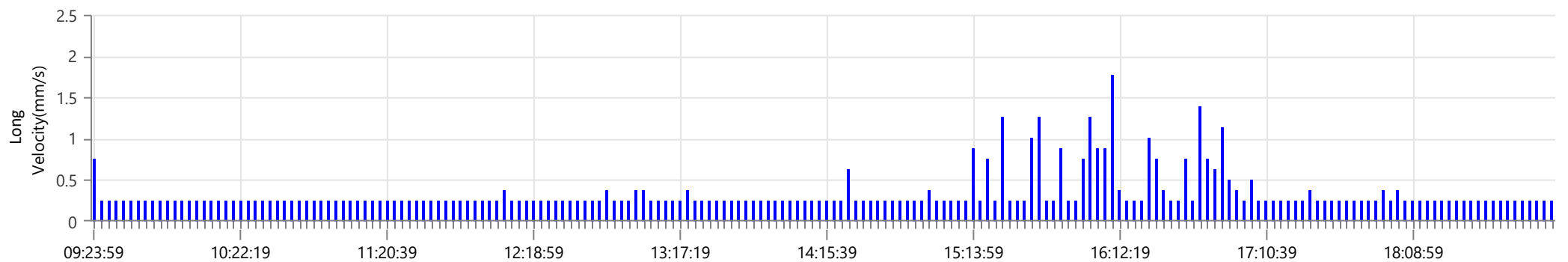
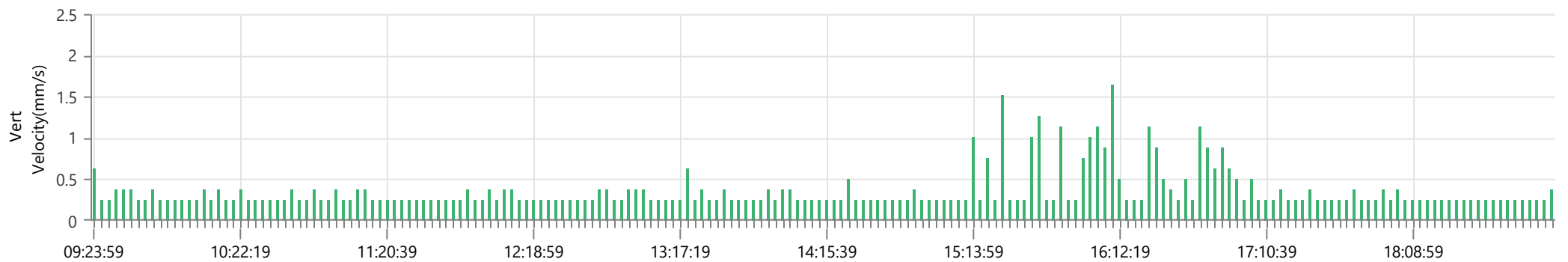
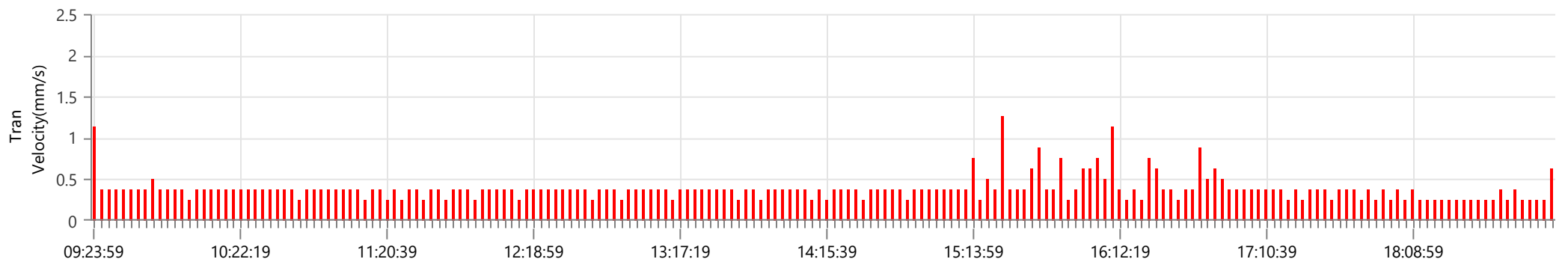
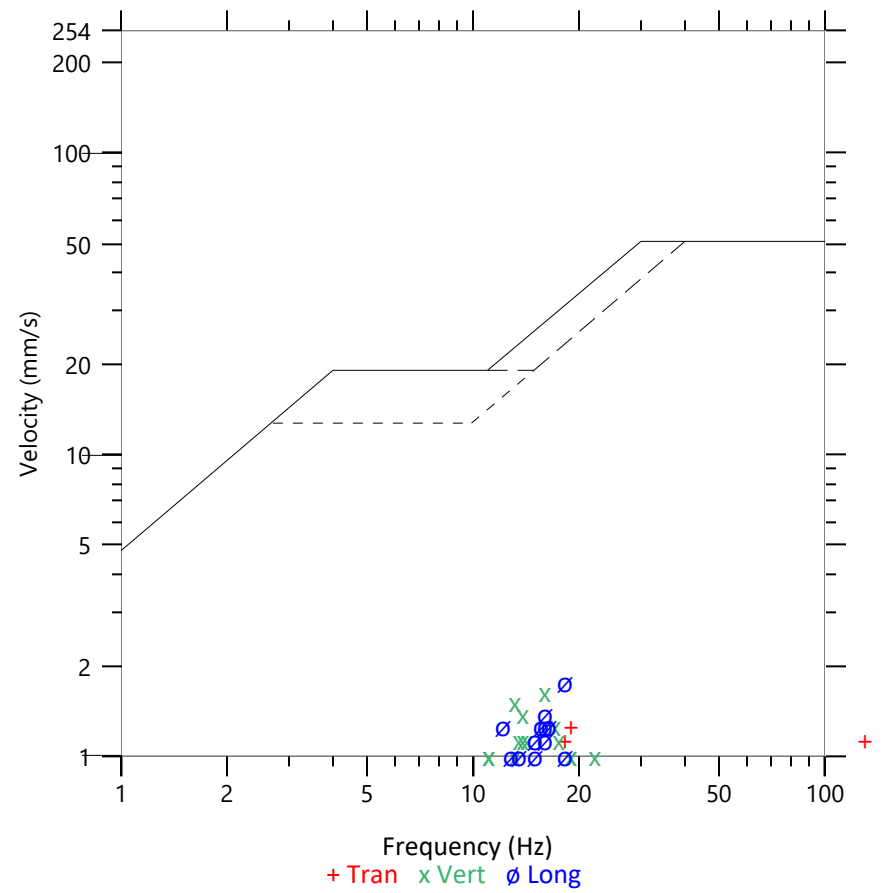
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.270 mm/s	1.651 mm/s	1.778 mm/s
Zero Crossing Frequency	19.0 Hz	16.0 Hz	18.3 Hz
Date	Nov 1, 2022	Nov 1, 2022	Nov 1, 2022
Time	15:25:59	16:10:44	16:10:44
Sensor Check	✓ Passed	✓ Passed	✗ Check
Frequency	7.3 Hz	7.5 Hz	7.8 Hz
Overswing Ratio	4.0	4.4	4.0
Peak Vector Sum	2.254 mm/s at November 1, 2022 16:10:44		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 1, 2022 09:23:54
Finish November 1, 2022 19:05:22
Number of Intervals/Interval 6977.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221101092354.IDFH

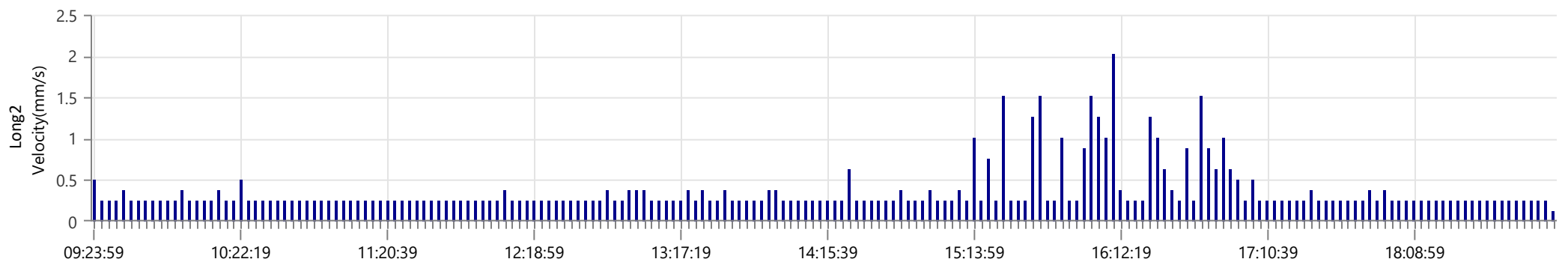
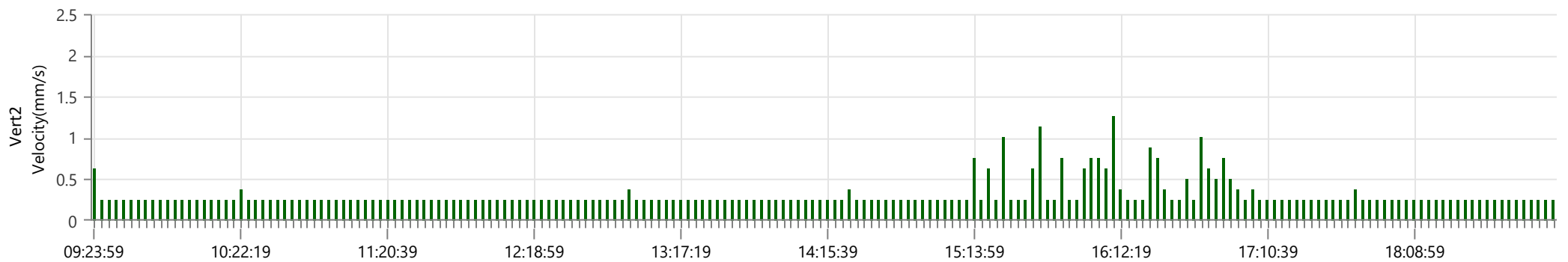
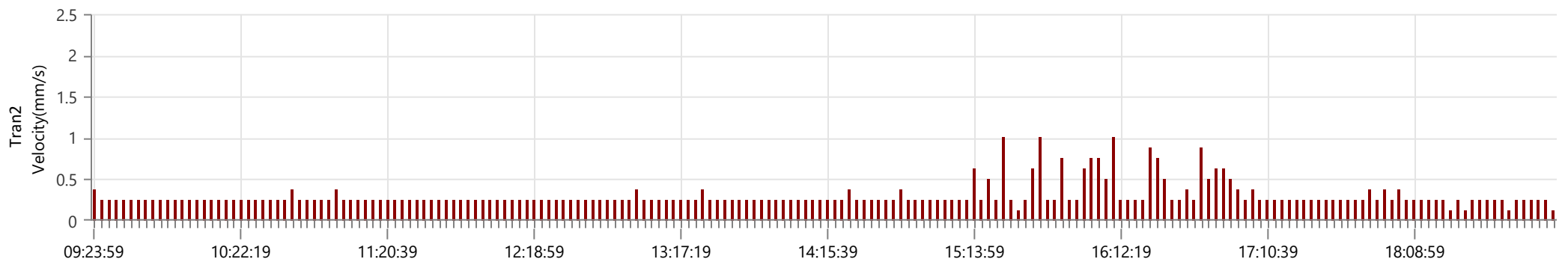
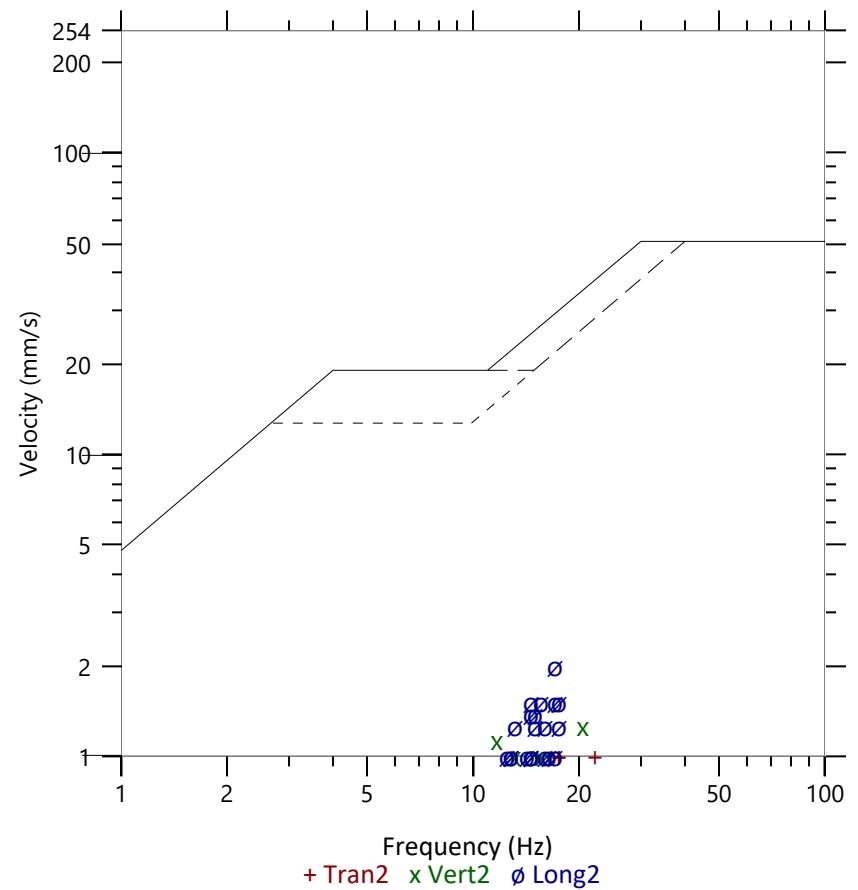
Notes
Location:
Client:
User Name: JA
General:

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.016 mm/s	1.270 mm/s	2.032 mm/s
Zero Crossing Frequency	17.7 Hz	20.5 Hz	17.1 Hz
Date	Nov 1, 2022	Nov 1, 2022	Nov 1, 2022
Time	15:25:59	16:10:44	16:10:44
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.4 Hz	7.6 Hz	7.4 Hz
Overswing Ratio	4.3	3.9	4.0
Peak Vector Sum	2.250 mm/s at November 1, 2022 16:10:44		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 24, 2022 07:20:30
Finish November 24, 2022 18:20:51
Number of Intervals/Interval 7924.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration April 4, 2022 by InstanTEL
Event File Name BA19604_20221124072030.IDFH

Notes
Location: Willow eastate
Client:
User Name: GB
General: RD7948

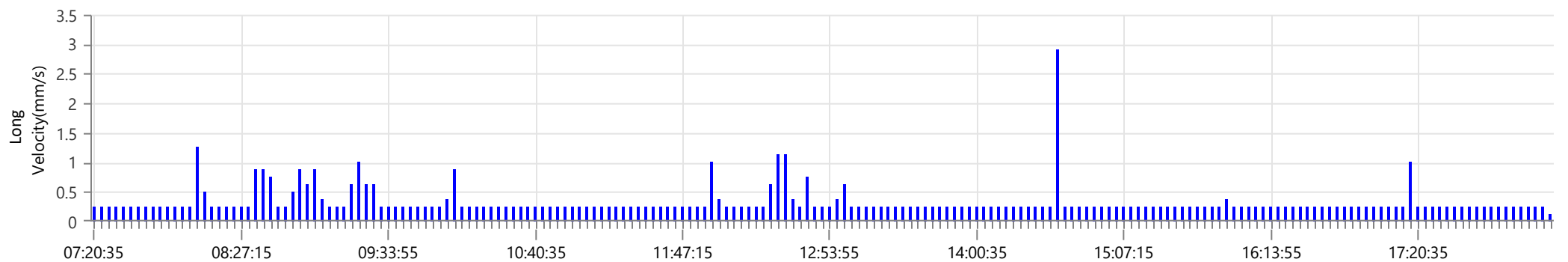
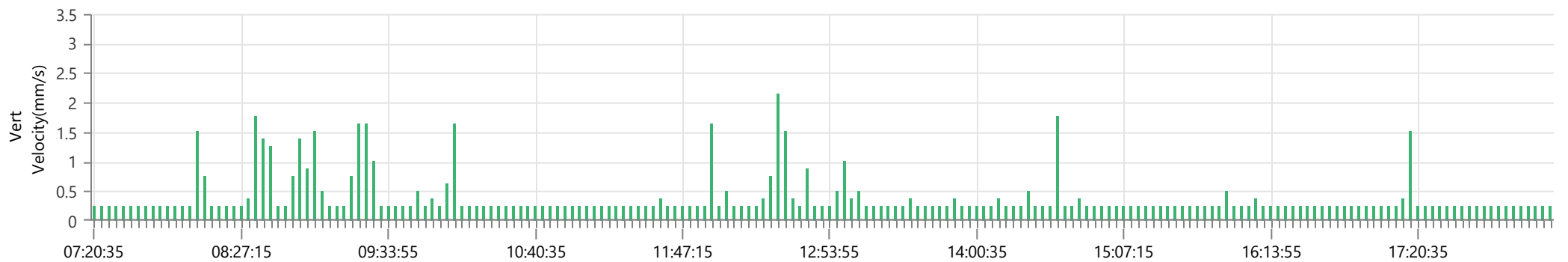
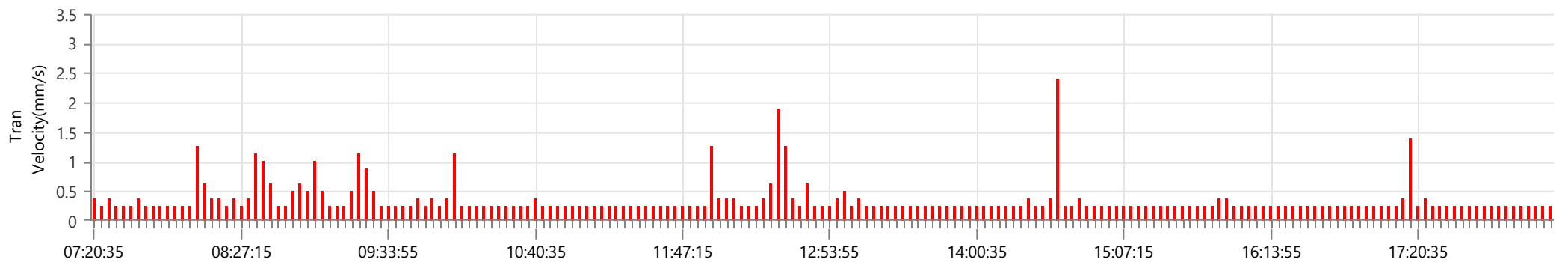
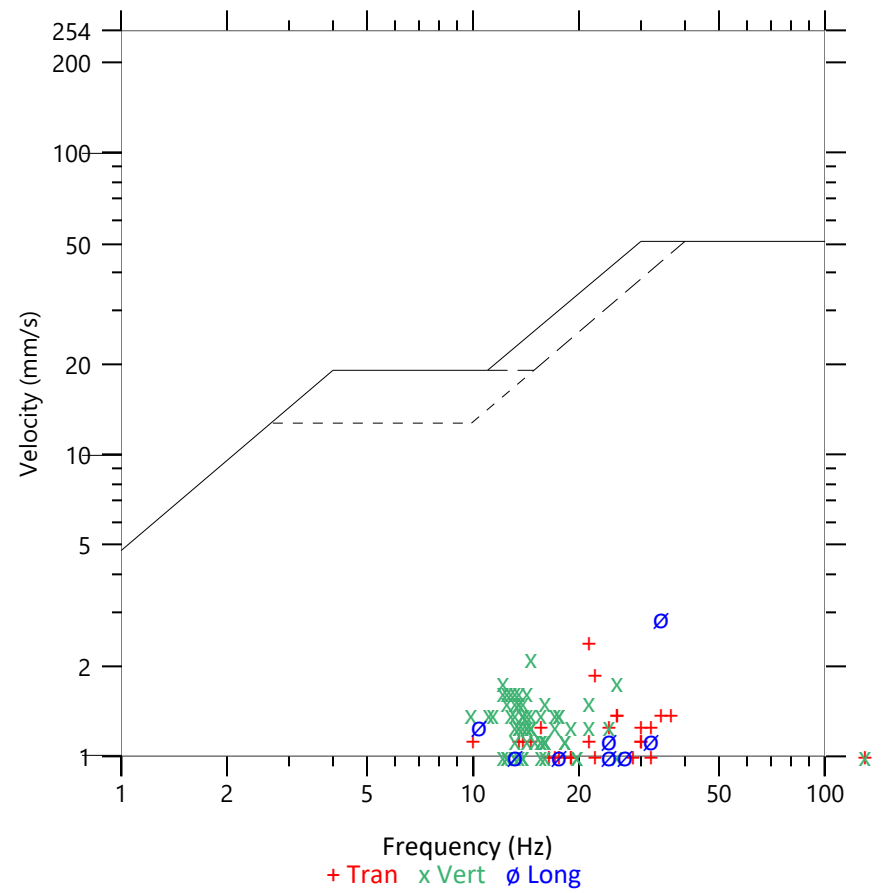
extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	2.413 mm/s	2.159 mm/s	2.921 mm/s
Zero Crossing Frequency	21.3 Hz	14.6 Hz	34.1 Hz
Date	Nov 24, 2022	Nov 24, 2022	Nov 24, 2022
Time	14:39:25	12:31:55	14:39:25
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.3 Hz	7.7 Hz	7.3 Hz
Overswing Ratio	4.3	3.9	4.1

Peak Vector Sum 4.012 mm/s at November 24, 2022 14:39:25

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 24, 2022 07:20:30
Finish November 24, 2022 18:20:51
Number of Intervals/Interval 7924.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19604
Model Number BlastMate III/8 10.72.8.17
Battery Level 5.9 volts
Battery Error (Battery low)
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19604_20221124072030.IDFH

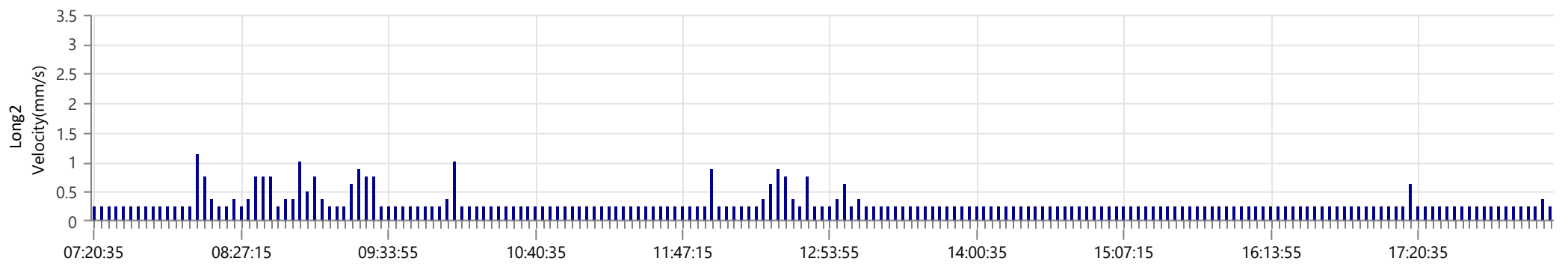
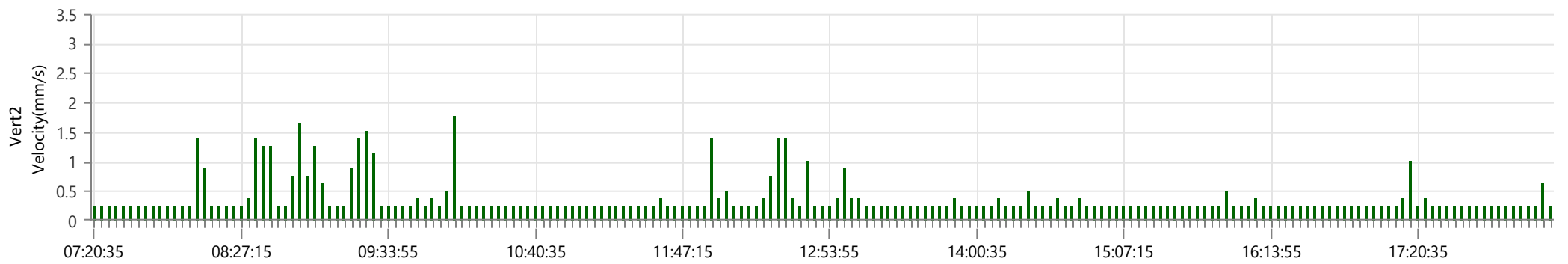
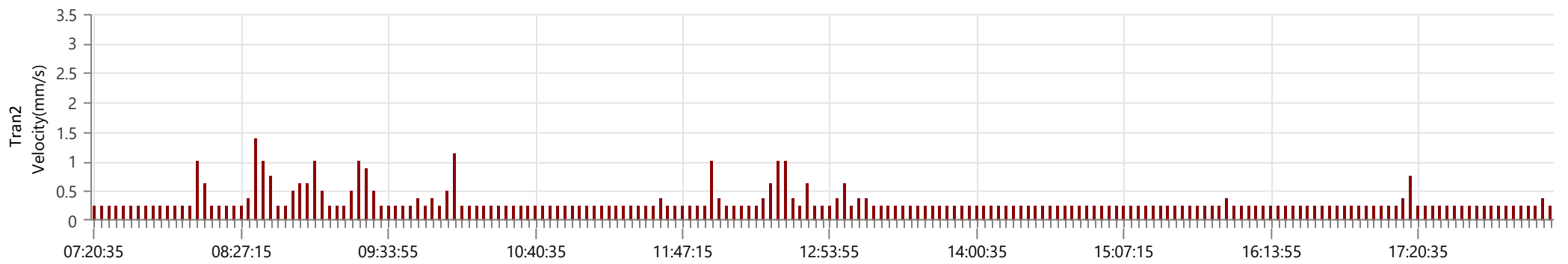
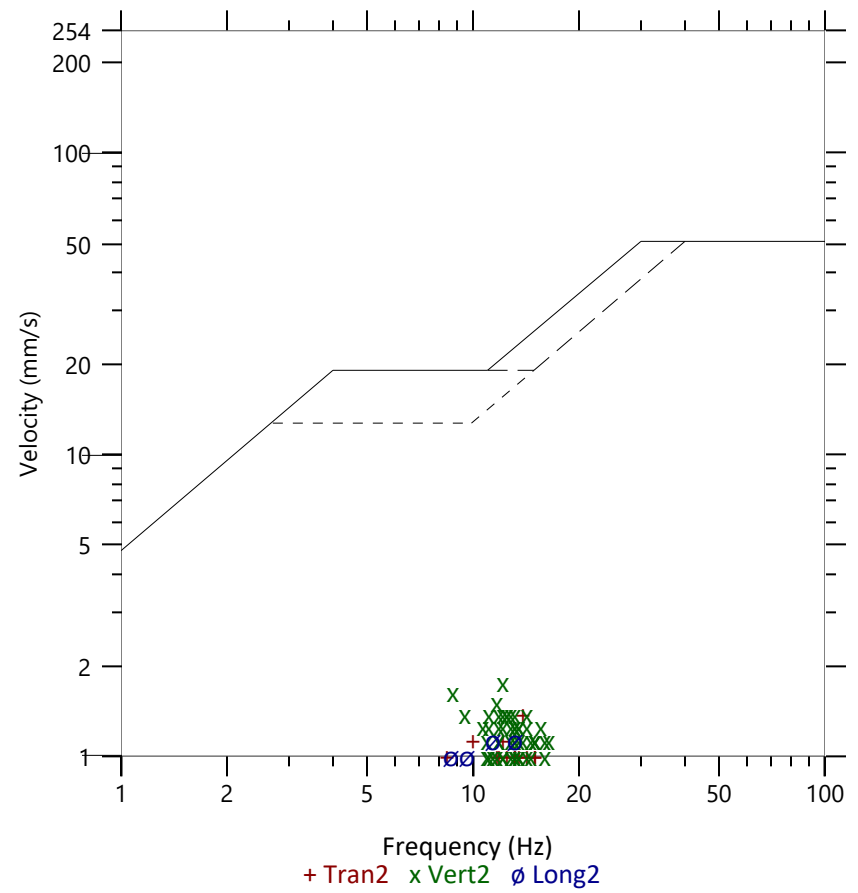
Notes
Location: Willow eastate
Client:
User Name: GB
General: RD7948

extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	1.397 mm/s	1.778 mm/s	1.143 mm/s
Zero Crossing Frequency	13.8 Hz	12.2 Hz	11.4 Hz
Date	Nov 24, 2022	Nov 24, 2022	Nov 24, 2022
Time	08:36:20	10:04:20	08:10:00
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.7 Hz	8.6 Hz	7.6 Hz
Overswing Ratio	3.8	3.2	4.3
Peak Vector Sum	1.823 mm/s at November 24, 2022 10:04:20		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 15, 2022 07:38:16
Finish November 15, 2022 17:49:44
Number of Intervals/Interval 7337.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

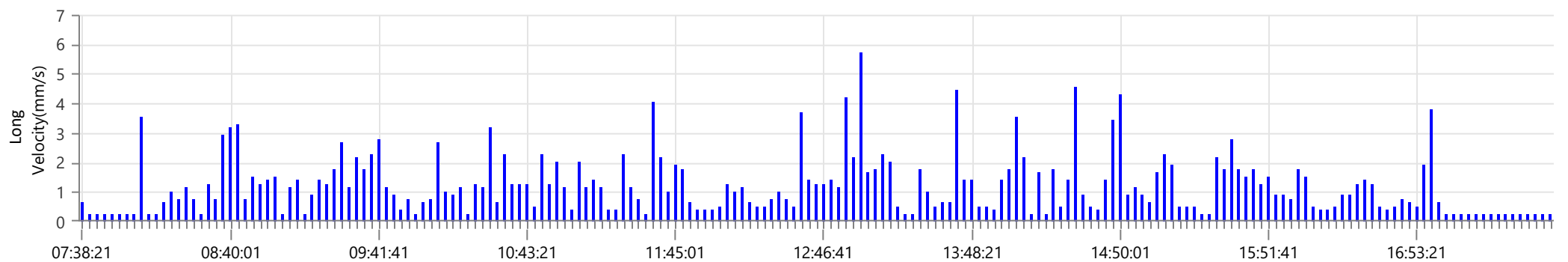
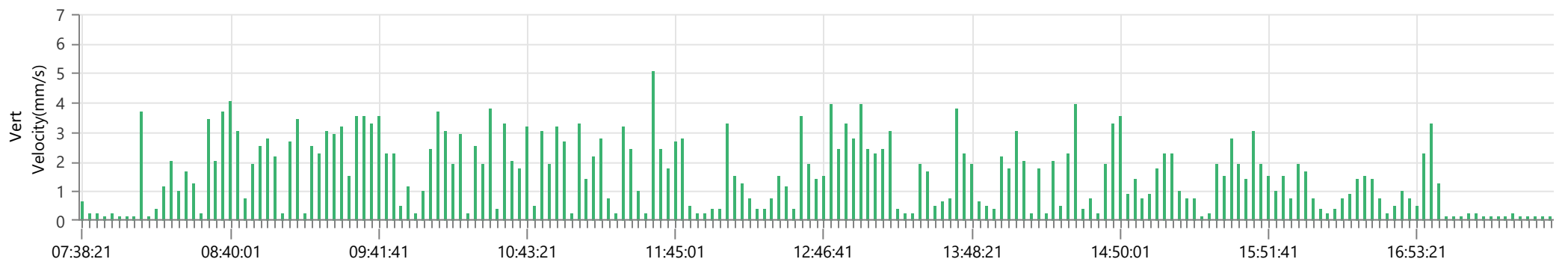
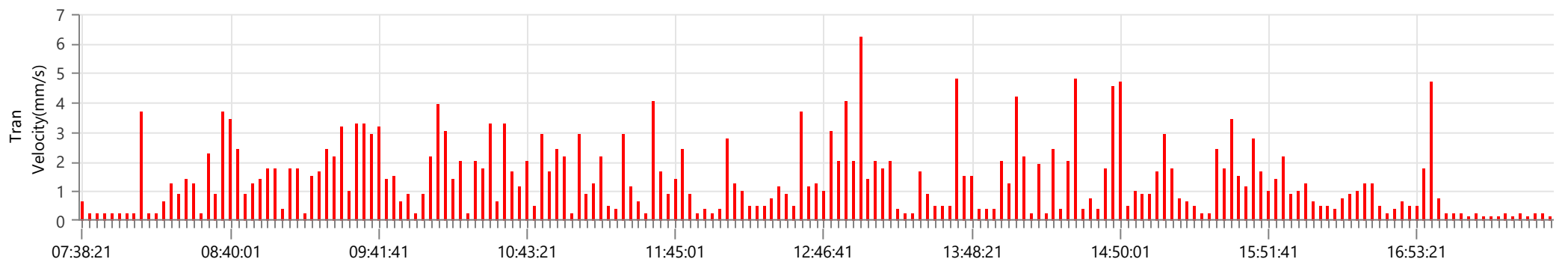
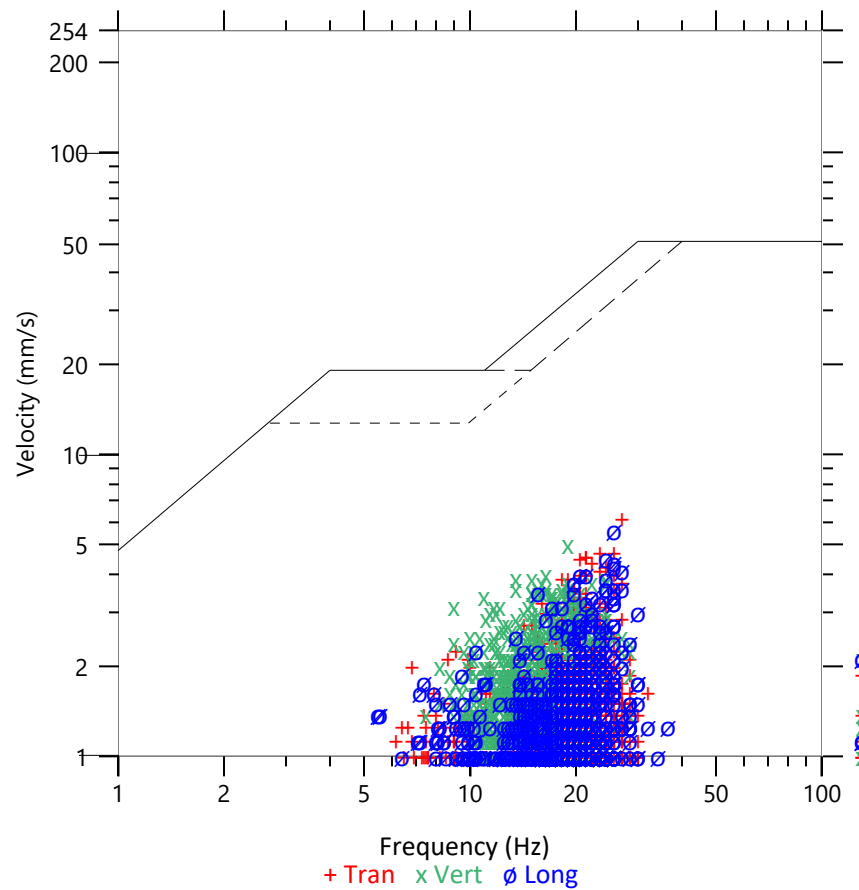
Serial Number BA19606
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19606_20221115073816.IDFH

Notes
Location: Willow estate
Client:
User Name: GB
General: RD7947

Extended Notes near 30 willow point
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	6.223 mm/s	5.080 mm/s	5.715 mm/s
Zero Crossing Frequency	26.9 Hz	19.0 Hz	25.6 Hz
Date	Nov 15, 2022	Nov 15, 2022	Nov 15, 2022
Time	13:04:41	11:36:56	13:04:41
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.5 Hz
Overswing Ratio	3.9	4.0	3.9
Peak Vector Sum	8.599 mm/s at November 15, 2022 13:04:41		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 15, 2022 07:38:16
Finish November 15, 2022 17:49:44
Number of Intervals/Interval 7337.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

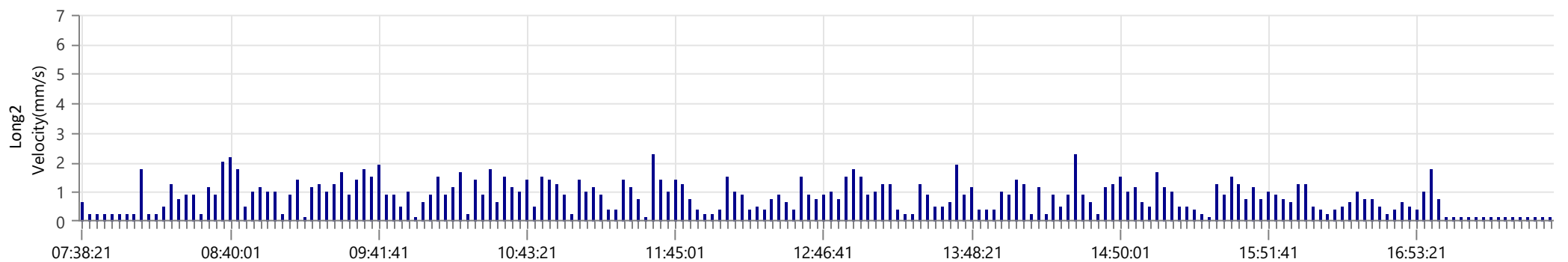
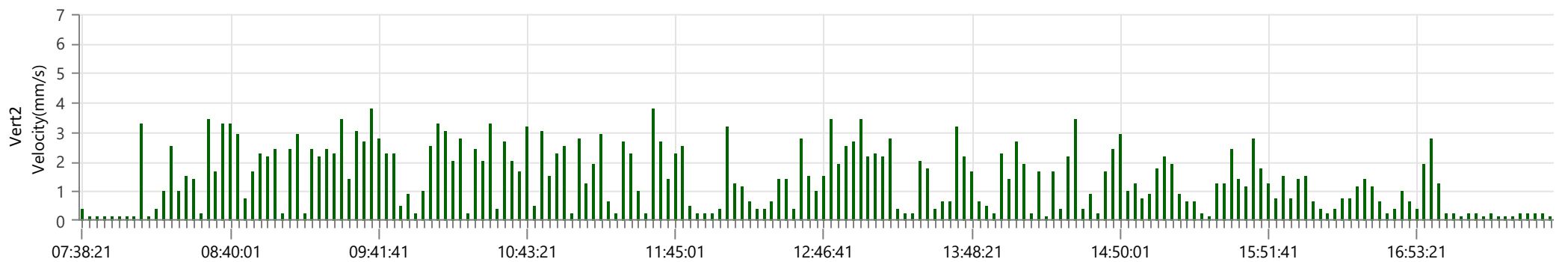
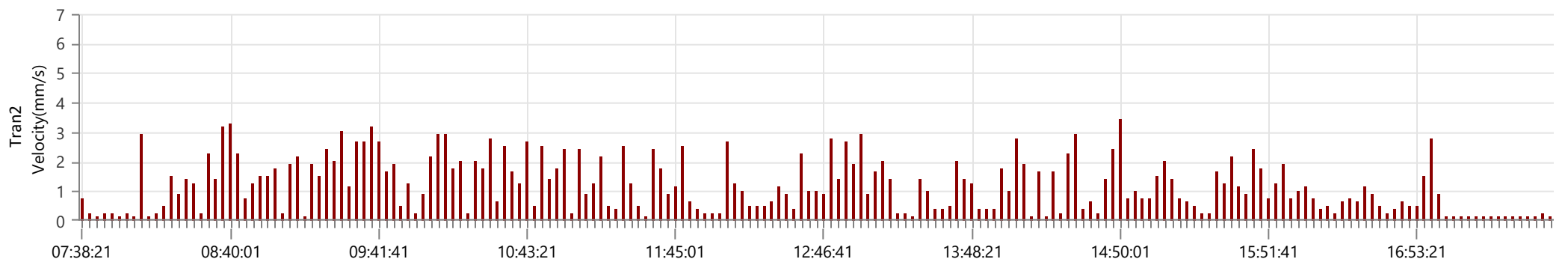
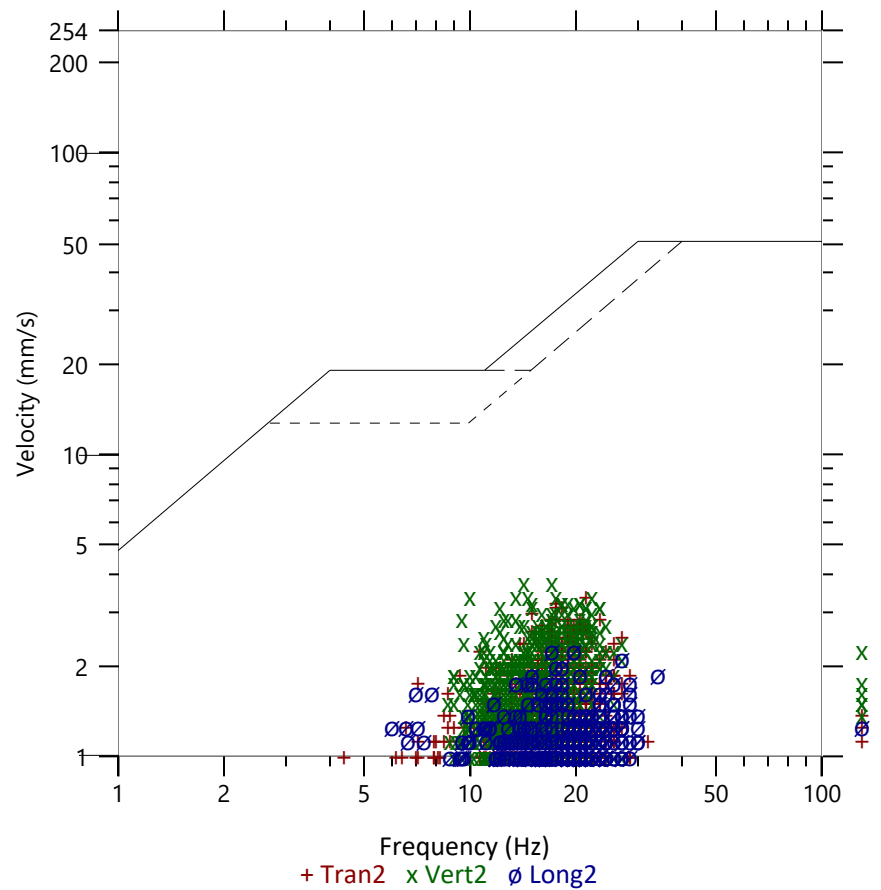
Serial Number BA19606
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.0 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19606_20221115073816.IDFH

Notes
Location: Willow estate
Client:
User Name: GB
General: RD7947

Extended Notes near 30 willow point
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	3.429 mm/s	3.810 mm/s	2.286 mm/s
Zero Crossing Frequency	21.3 Hz	14.2 Hz	19.7 Hz
Date	Nov 15, 2022	Nov 15, 2022	Nov 15, 2022
Time	14:52:06	09:38:36	11:36:56
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	9.9 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.2	3.7	3.7
Peak Vector Sum	3.968 mm/s at November 15, 2022 09:26:56		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 3, 2022 08:00:52
Finish November 3, 2022 17:50:38
Number of Intervals/Interval 7077.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19606
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19606_20221103080052.IDFH

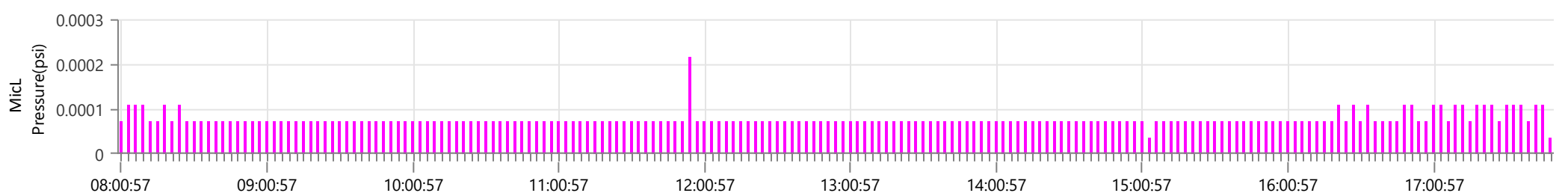
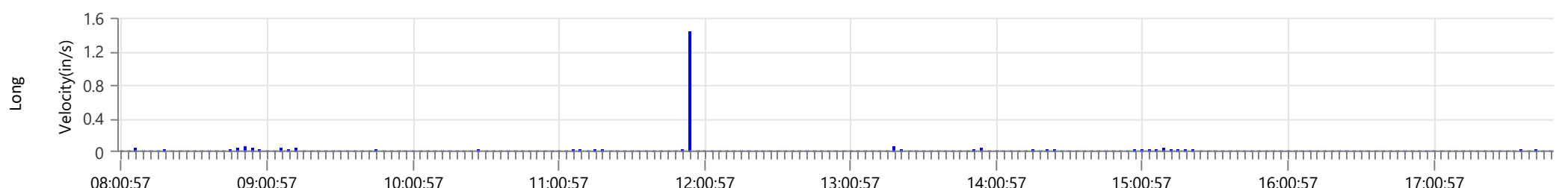
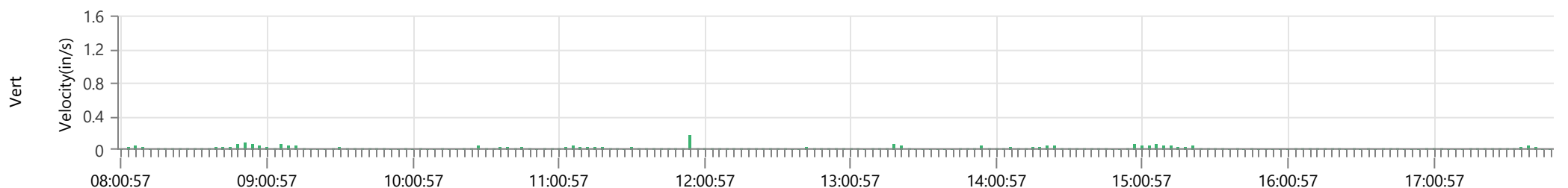
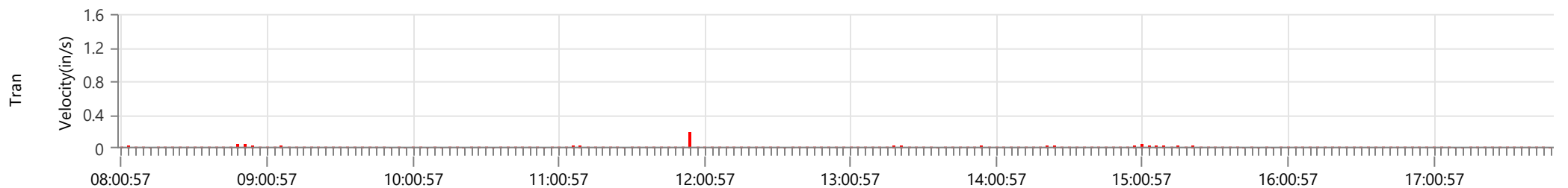
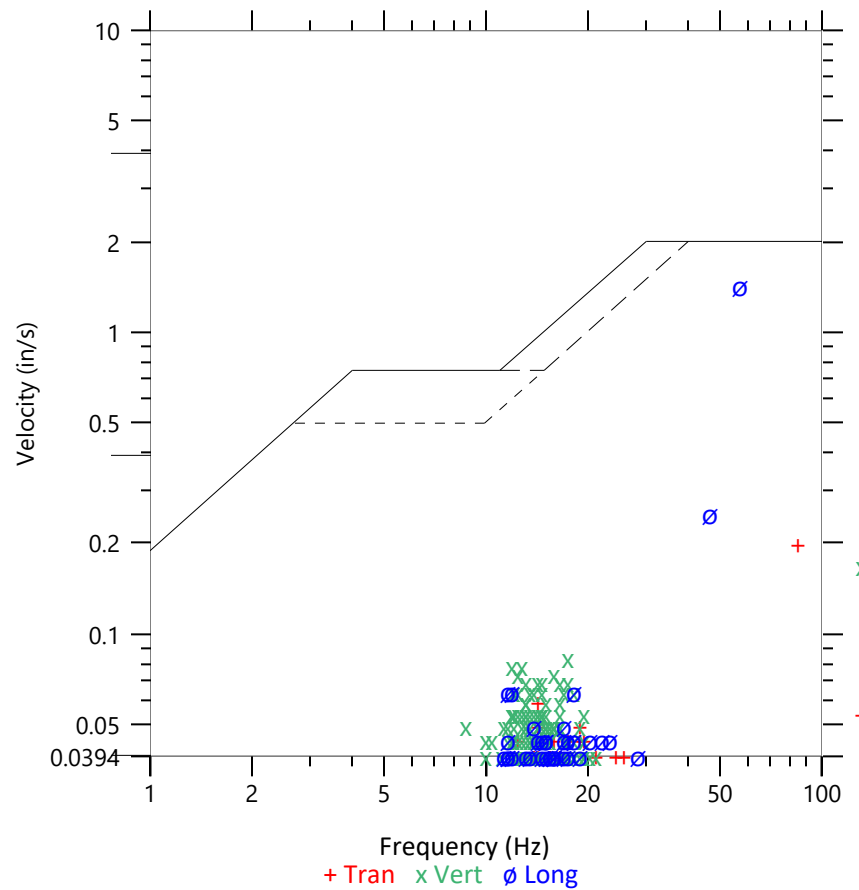
Notes
Location:
Client:
User Name:
General:

Extended Notes No text to be displayed.
Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.2000 in/s	0.1700 in/s	1.4400 in/s
Zero Crossing Frequency	85.3 Hz	>100 Hz	56.9 Hz
Date	Nov 3, 2022	Nov 3, 2022	Nov 3, 2022
Time	11:55:37	11:55:37	11:55:37
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.6 Hz	7.5 Hz
Overswing Ratio	3.8	4.0	3.9
Peak Vector Sum	1.4501 in/s at November 3, 2022 11:55:37		

ISEE Linear Microphone	
Peak Sound Pressure Level	0.000218 psi
Date	Nov 3, 2022
Time	11:55:37
Zero Crossing Frequency	64.0 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 3, 2022 08:00:52
Finish November 3, 2022 17:50:38
Number of Intervals/Interval 7077.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA19606
Model Number BlastMate III/8 10.72.8.17
Battery Level 6.1 volts
Unit Calibration April 4, 2022 by Instantel
Event File Name BA19606_20221103080052.IDFH

Notes
Location:
Client:
User Name:
General:

Extended Notes No text to be displayed.

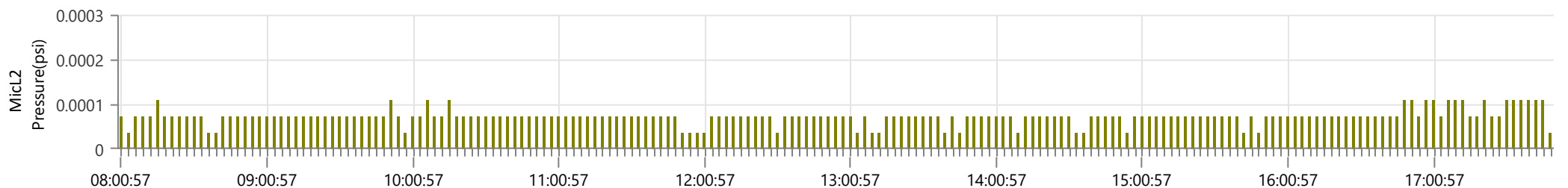
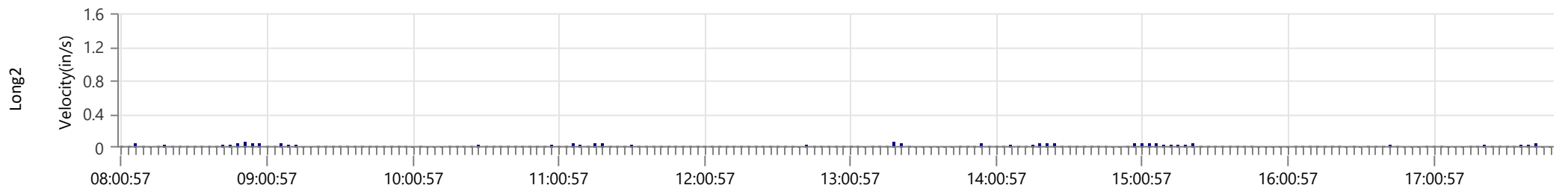
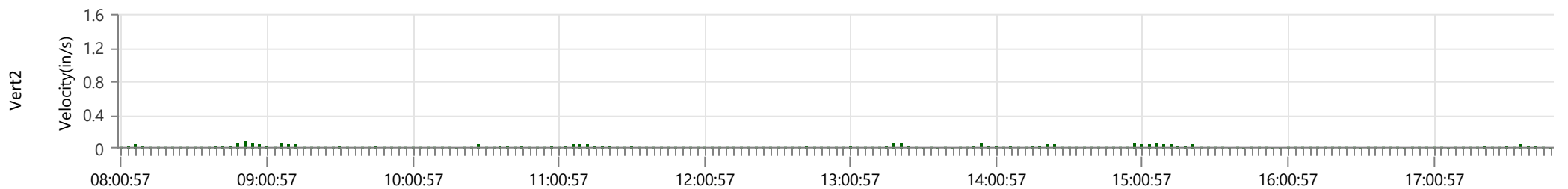
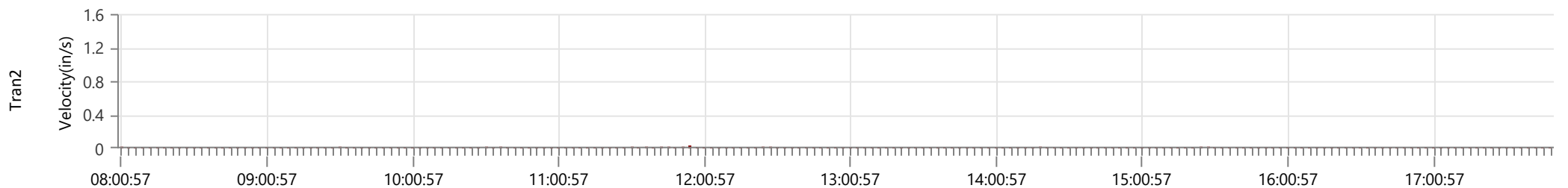
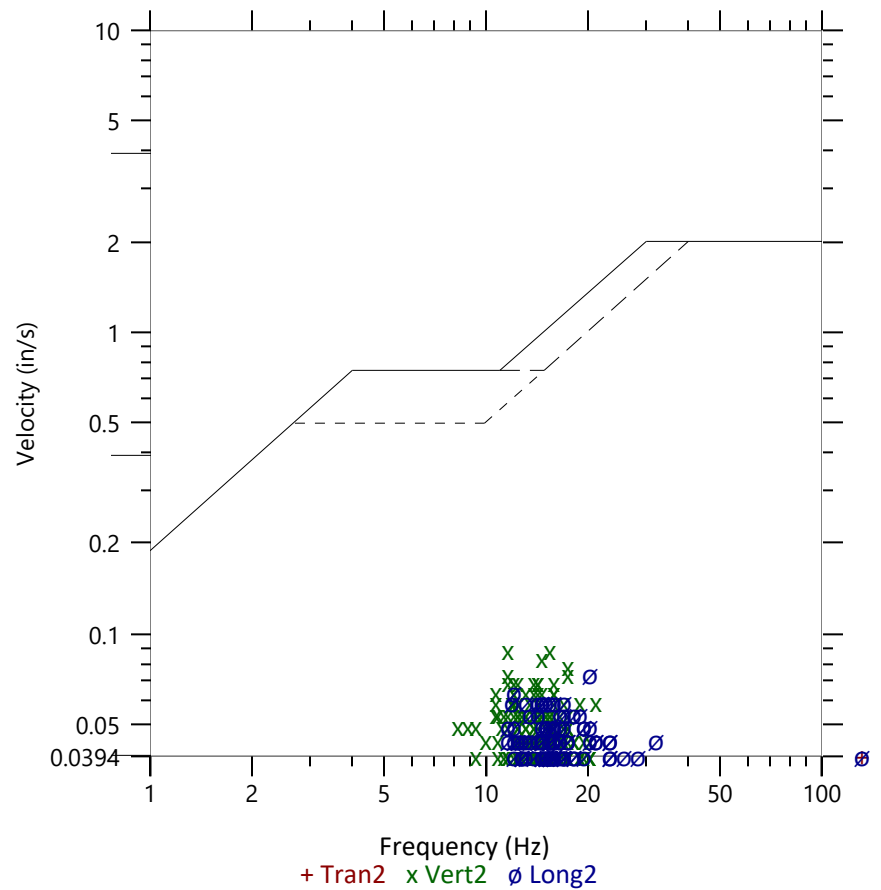
Post Event Notes No text to be displayed.

Geophone	Tran2	Vert2	Long2
Peak Particle Velocity	0.0400 in/s	0.0900 in/s	0.0750 in/s
Zero Crossing Frequency	>100 Hz	11.6 Hz	20.5 Hz
Date	Nov 3, 2022	Nov 3, 2022	Nov 3, 2022
Time	17:50:32	08:52:17	08:54:17
Sensor Check	✗ Check	✓ Passed	✓ Passed
Frequency	8.9 Hz	7.7 Hz	7.8 Hz
Overswing Ratio	5.3	3.7	3.7

Peak Vector Sum 0.0966 in/s at November 3, 2022 08:54:17

ISEE Linear Microphone	
Peak Sound Pressure Level	0.000109 psi
Date	Nov 3, 2022
Time	08:15:57
Zero Crossing Frequency	>100 Hz
Sensor Check	✗ Check
Frequency	0.0 Hz
Test Amplitude	0 mv

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 09:29:13
Finish October 3, 2022 09:49:55
Number of Intervals/Interval 248.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA20194
Model Number BlastMate III 10.72.8.17
Battery Level 6.2 volts
Unit Calibration March 16, 2022 by Instantel
Event File Name BA20194_20221003092913.IDFH

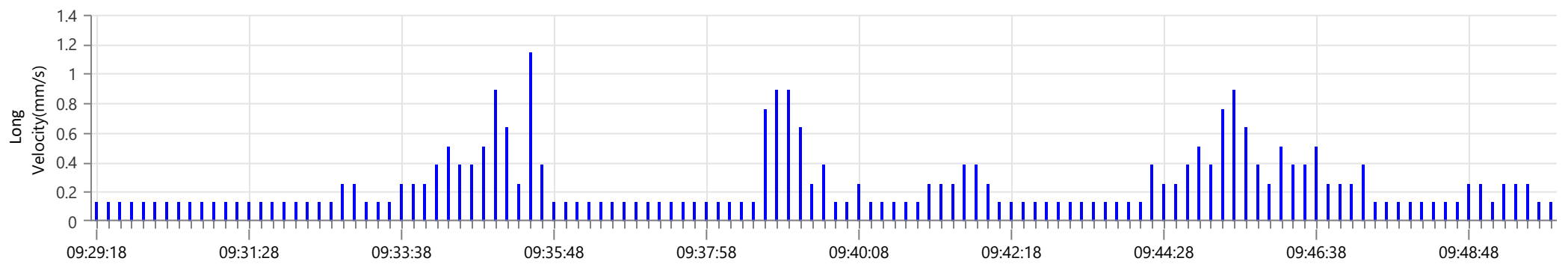
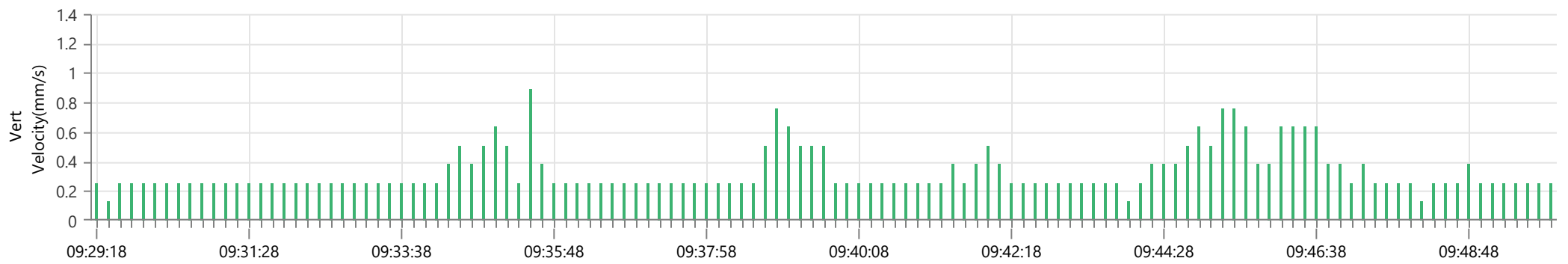
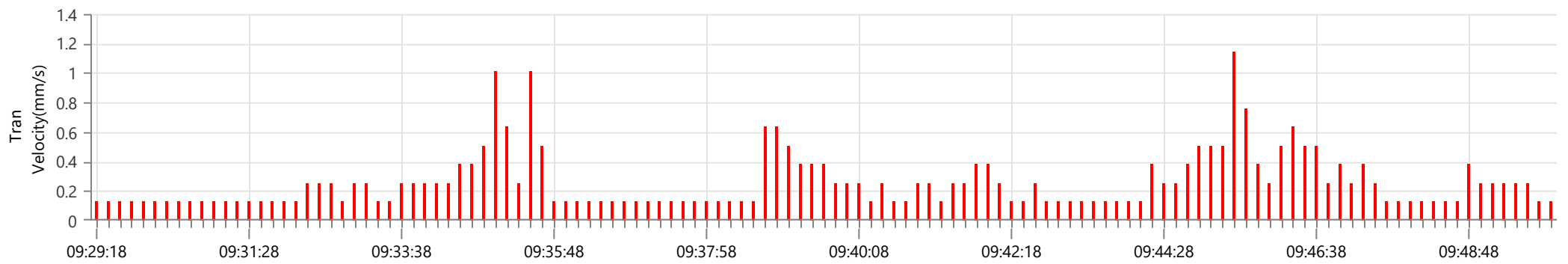
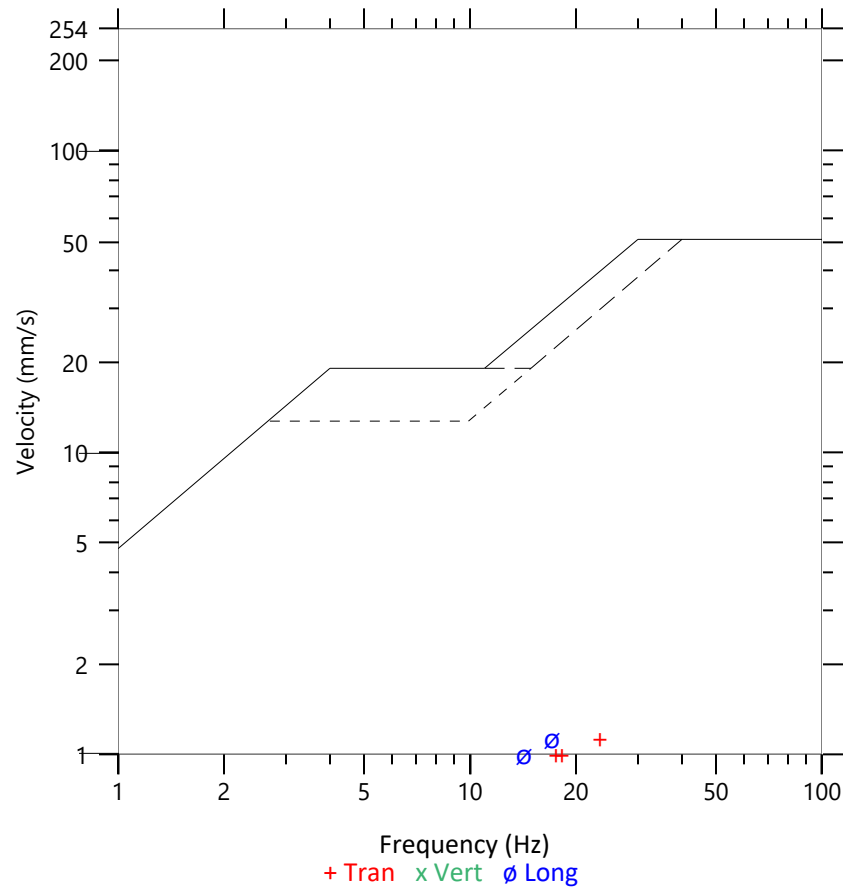
Notes
Location:
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.143 mm/s	0.889 mm/s	1.143 mm/s
Zero Crossing Frequency	23.3 Hz	14.6 Hz	17.1 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	09:45:33	09:35:33	09:35:28
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.9 Hz	8.2 Hz	7.9 Hz
Overswing Ratio	4.1	3.5	3.6
Peak Vector Sum	1.350 mm/s at October 3, 2022 09:35:33		

USBM R18507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start October 3, 2022 09:50:23
Finish October 3, 2022 19:22:05
Number of Intervals/Interval 6860.00/5 sec
Sample Rate 1024 sps
Setup File Name N/A
Operator -

Serial Number BA20194
Model Number BlastMate III 10.72.8.17
Battery Level 6.2 volts
Unit Calibration March 16, 2022 by Instantel
Event File Name BA20194_20221003095023.IDFH

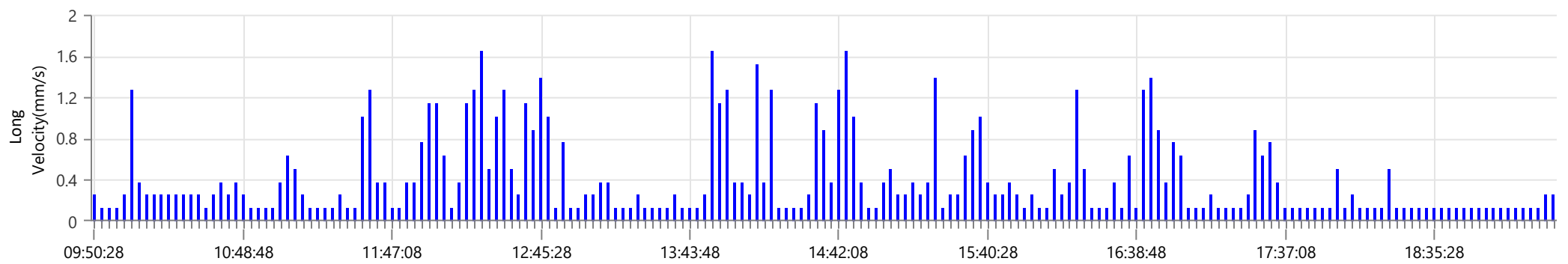
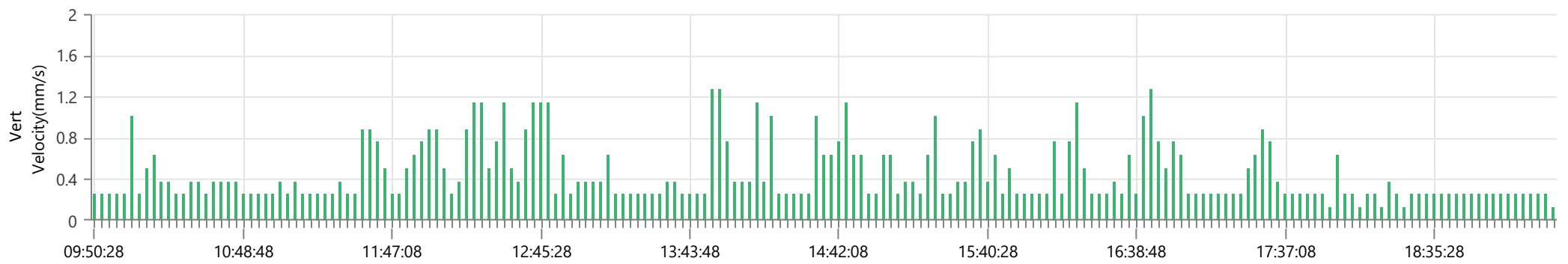
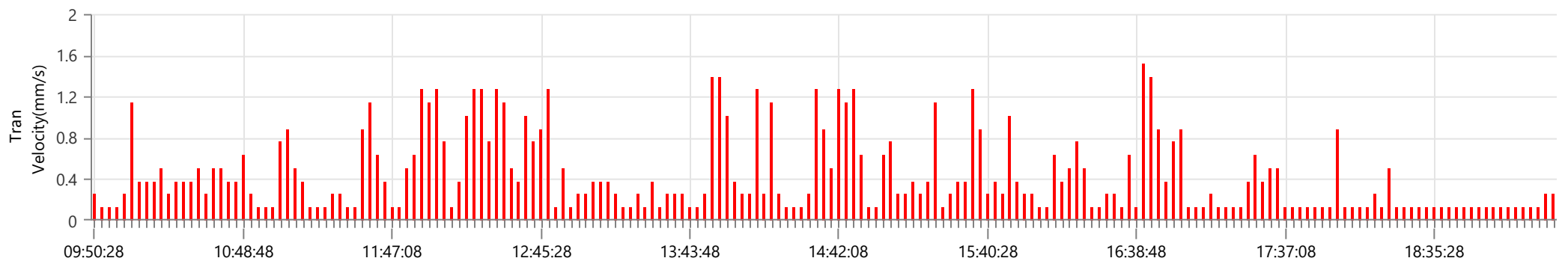
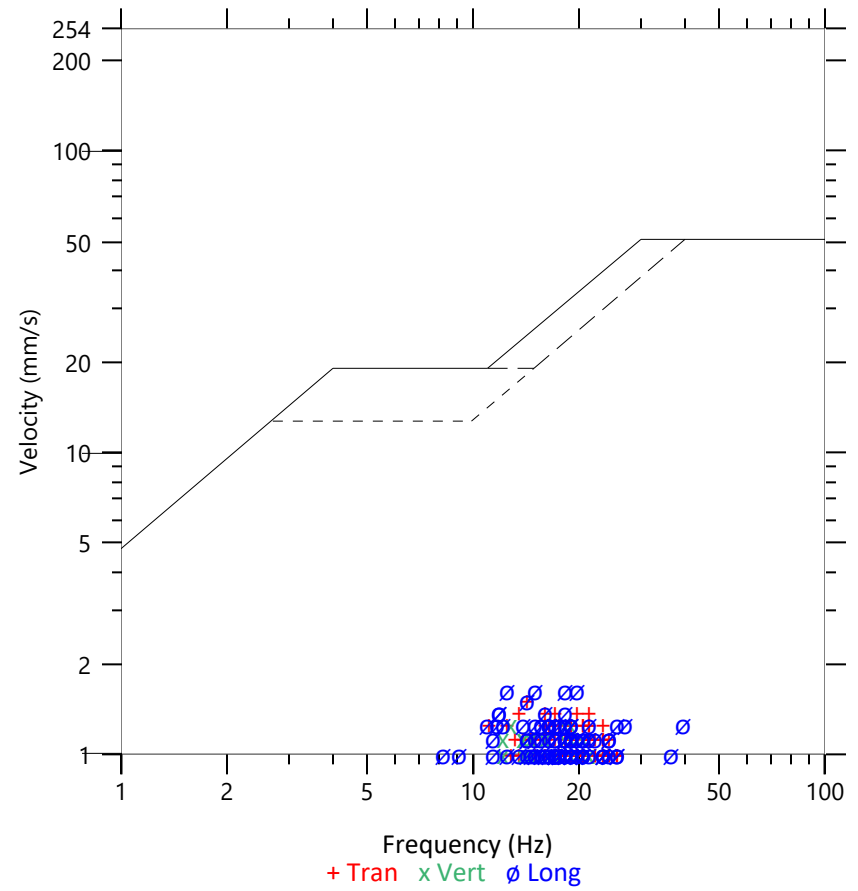
Notes
Location:
Client:
User Name:
General:

Extended Notes No text to be displayed.

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	1.524 mm/s	1.270 mm/s	1.651 mm/s
Zero Crossing Frequency	14.2 Hz	18.3 Hz	19.7 Hz
Date	Oct 3, 2022	Oct 3, 2022	Oct 3, 2022
Time	16:43:33	13:53:18	12:22:38
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.6 Hz	7.8 Hz	7.5 Hz
Overswing Ratio	4.1	3.5	3.6
Peak Vector Sum	1.943 mm/s at October 3, 2022 16:43:33		

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)



Start November 3, 2022 08:26:44
Finish November 3, 2022 17:47:12
Number of Intervals/Interval 6725.75/5 sec
Sample Rate 1024 sps
Setup File Name DH.MMB
Operator Operator

Serial Number UM13357
Model Number Micromate ISEE 10.90GC
Battery Level 3.8 volts
Unit Calibration March 15, 2022 by InstanTEL
Event File Name UM13357_20221103082644.IDFH
USB Sensor Support Disabled

Notes
Location:
Client:
User Name:
General:

Post Event Notes No text to be displayed.

Geophone	Tran	Vert	Long
Peak Particle Velocity	0.1564 in/s	0.1055 in/s	0.2408 in/s
Zero Crossing Frequency	85.3 Hz	14.2 Hz	>100 Hz
Date	Nov 3, 2022	Nov 3, 2022	Nov 3, 2022
Time	17:46:59	15:46:09	17:47:04
Sensor Check	✓ Passed	✓ Passed	✓ Passed
Frequency	7.5 Hz	7.5 Hz	7.3 Hz
Overswing Ratio	4.9	4.7	5.0

Peak Vector Sum 0.2466 in/s at November 3, 2022 17:46:24

USBM RI8507 And OSMRE
Velocity versus Frequency (Zero Crossing)

