

REPORT PROVA H/V

Stazione	18
WGS84 N	1702518,8
WGS84 E	4863432,2
Strumentazione	Sara SR04S3 4,5 Hz
Frequenza campionamento	100 Hz
Durata registrazione	30 min
Terreno di misura	Terreno naturale
Orientamento	0° N
Condizioni meteo	Sereno, non ventoso



Lunghezza finestre	20 sec
Tipo di lisciamiento	Triangolare cost.
Ampiezza lisciamiento	10 %
Intervallo di frequenza (Hz)	0,5 – 20,0
Picco H/V (Hz)	No picco
CLASSE DI QUALITA'	A

Horizontal-to-Vertical Spectral Ratio

Dataset: 18_93MT_20120729_110729.SAF

Sampling frequency (Hz): 100

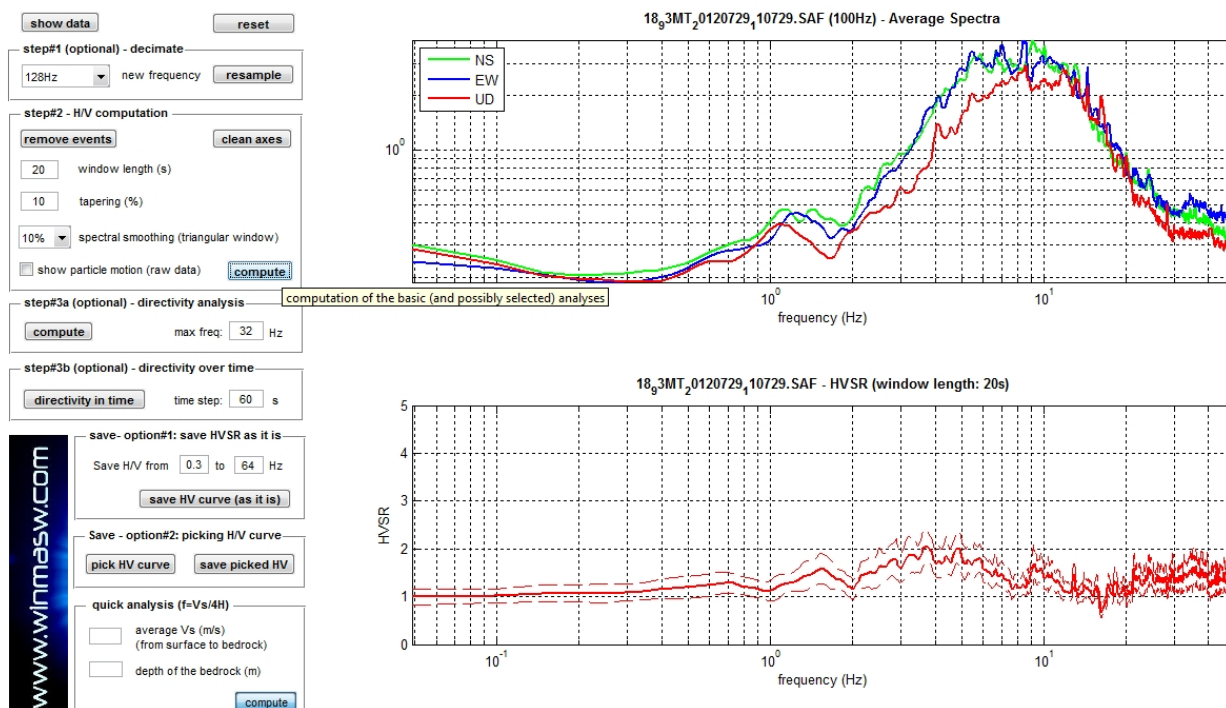
Window length (sec): 20

Length of analysed temporal sequence (min): 18.6

Tapering (%): 10

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In the following the results considering the data in the 0.5-20.0Hz frequency rangePeak frequency (Hz): 3.8 (± 3.9)Peak HVSR value: 2.0 (± 0.3)**=== Criteria for a reliable H/V curve =====**#1. [$f_0 > 10/Lw$]: $3.8 > 0.5$ (OK)#2. [$nc > 200$]: $8280 > 200$ (OK)#3. [$f_0 > 0.5\text{Hz}$; $\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$] (OK)**=== Criteria for a clear H/V peak (at least 5 should be fulfilled) =====**#1. [exists f_- in the range $[f_0/4, f_0]$ | $AH/V(f_-) < A_0/2$]: (NO)#2. [exists f_+ in the range $[f_0, 4f_0]$ | $AH/V(f_+) < A_0/2$]: yes, at frequency 13.4Hz (OK)#3. [$A_0 > 2$]: $2.0 > 2$ (OK)#4. [$f_{\text{peak}}[A_{h/v}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$]: (OK)#5. [$\sigma_{\text{maf}} < \epsilon(f_0)$]: $3.893 > 0.188$ (NO)#6. [$\sigma_A(f_0) < \theta(f_0)$]: $0.331 < 1.58$ (OK)



HVSR vs time

