

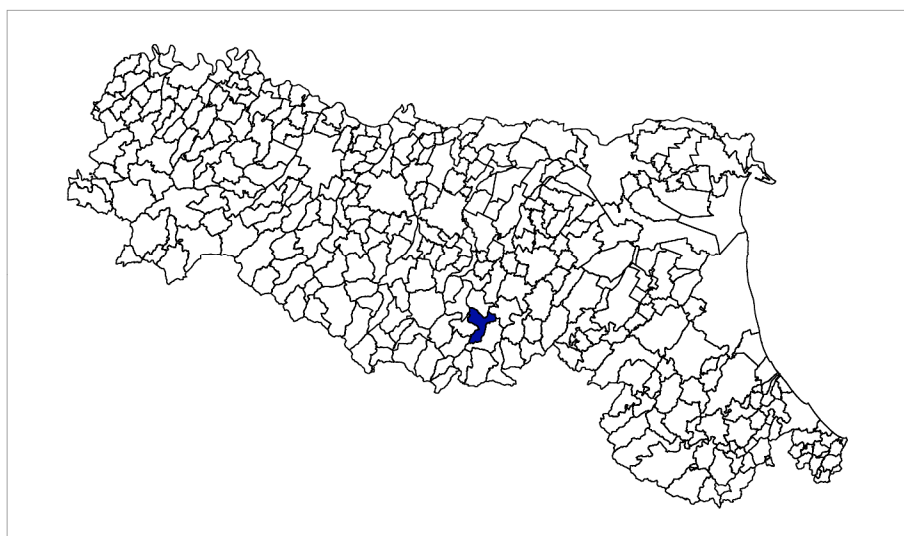
Attuazione dell'articolo 11 della legge 24 giugno 2009, n.77

MICROZONAZIONE SISMICA

Analisi geologico tecnica e microzonazione sismica del comune di Vergato

Indagini geofisiche di nuova esecuzione

Regione Emilia-Romagna
Piano Strutturale Comunale in Forma Associata
dei Comuni di Marzabotto e Vergato



Regione Emilia Romagna <i>Studio realizzato con il contributo di cui all'OPCM 4007/2012.</i> <i>Coordinamento della Regione Emilia-Romagna – Servizio Geologico</i> Luca Martelli	Soggetto realizzatore Studio Geologico CENTROGEO <i>Progetto:</i> Gian Pietro Mazzetti <i>Collaboratori:</i> Stefano Gilli, Andrea Arbizzi, Mauro Mazzetti <i>ELaborazioni GIS:</i> Studio Benaglia Professionisti Associati Corrado Ugoletti	Comune di Vergato <i>Sindaco:</i> Massimo Gnudi <i>Assessore all'Urbanistica:</i> Pier Antonio Gozzoli Ufficio di Piano Associato: Katia Lenzi Giovanni Facciorusso Giampaolo Zaccanti
 Provincia di Bologna		Data Gennaio 2016

INDAGINI GEOFISICHE REMI/MASW

STUDIO GEOLOGICO CENTROGEO

42015 Correggio (RE) - Piazza S.Quirino, 6 - tel 0522/641001 - Fax: 632162

CENTROGEO

P.zza S. Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R02

LOCALITA': Vergato (BO)

DATA: 09-10-2013

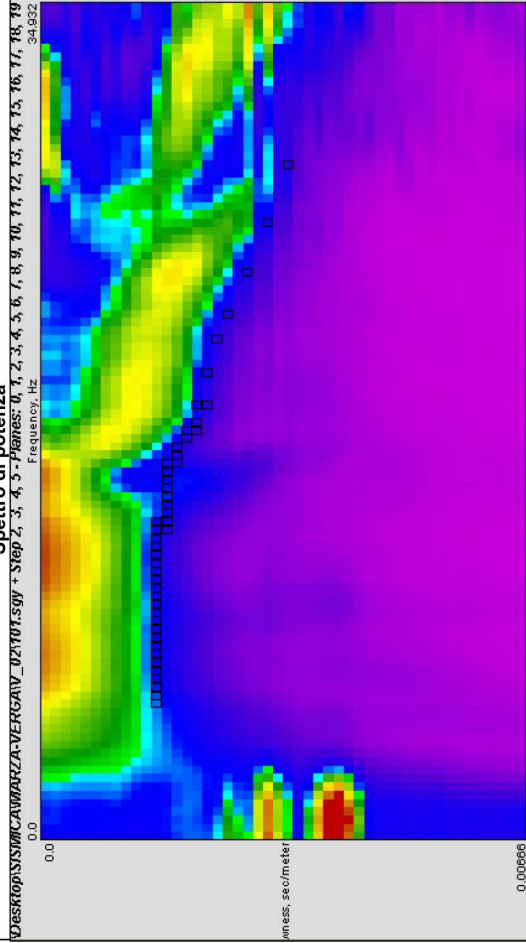
QUOTA: 275 m. s.l.m.

COMMITTENTE: Amm. Comunale

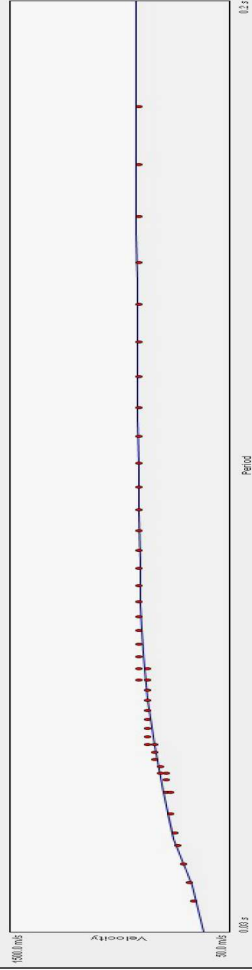
CANTIERE: Riola

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	1.4	1.4	180
2	1.4	4	2.6	260
3	4	19	15	870
4	19	21	2	850
5	21	INF	INF	750
6				
7				
8				
9				
10				

CENTROGEO

P.zza S. Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R05

LOCALITA': Vergato (BO)

DATA: 09-10-2013

QUOTA: 240 m. s.l.m.

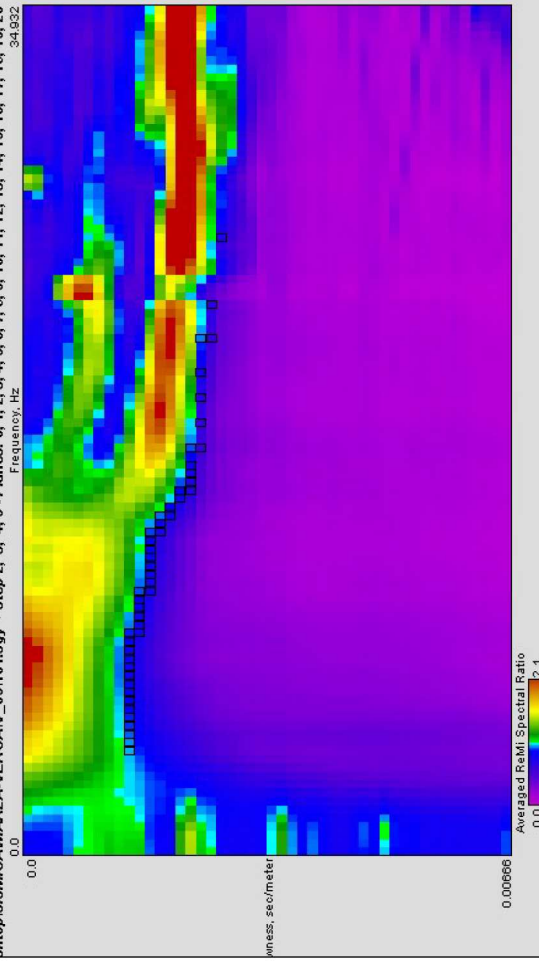
COMMITTENTE: Amm. Comunale

CANTIERE: Riola

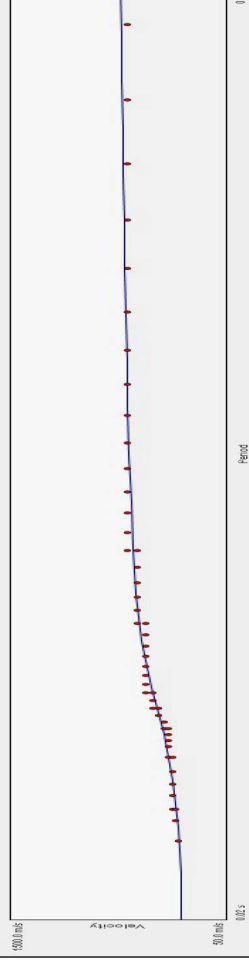
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

SKTOPSISINRCAMARZA-VERGAINV_051001.svg + Step 2, 3, 4, 5-Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	Operto in Potenza
Frequency, Hz	34.932
0.0	0.0



Curva di dispersione



Note:

Modello interpretativo					
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)	
1	0	9	9	400	
2	9	15	6	550	
3	15	36	21	970	
4	36	INF	INF	900	
5					
6					
7					
8					
9					
10					

CENTROGEO

P.zza S. Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R07

LOCALITA': Vergato (BO)

DATA: 09-10-2013

QUOTA: 265 m. s.l.m.

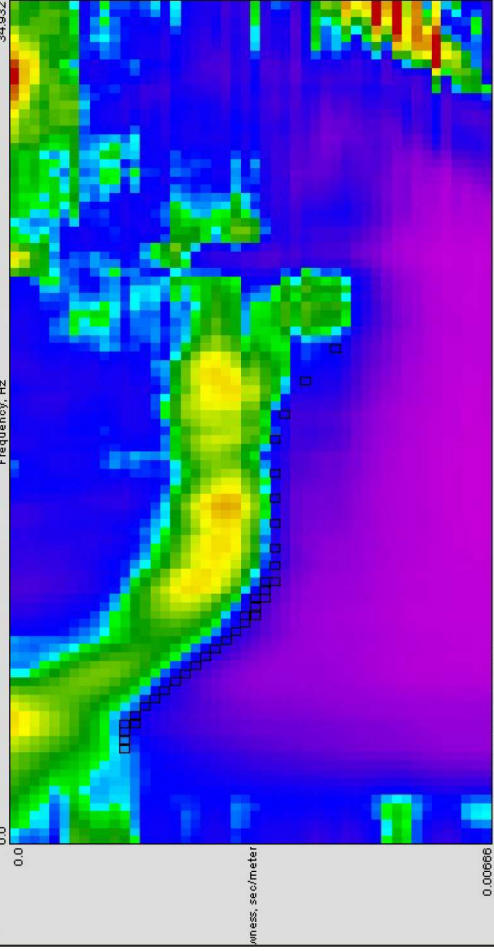
COMMITTENTE: Amm. Comunale

CANTIERE: Riola

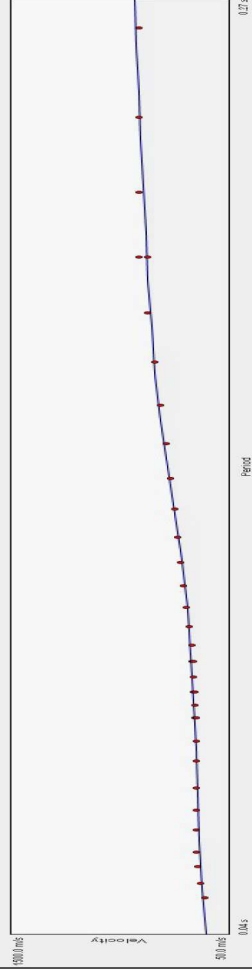
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

asktop\SIS\MCAM\HZA-VERGAIN_07101.svg + Step 2, 3, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Frequency: Hz
34.932



Curva di dispersione



Note:

Modello interpretativo					
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)	
1	0	1.7	1.7	130	130
2	1.7	17	15.3	330	330
3	17	22	5	530	530
4	22	32	10	690	690
5	32	INF	INF	950	950
6					
7					
8					
9					
10					

CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

LOCALITA': Vergato (BO)

DATA: 10-10-2013

QUOTA: 195 m. s.l.m.

INDAGINE MASW/Re.Mi. R09

COMMITTENTE: Amm. Comunale

CANTIERE: Vergato

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMAC\ARMARZA-VERGATO_09\101.svg + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

Averaged ReMi Spectral Ratio

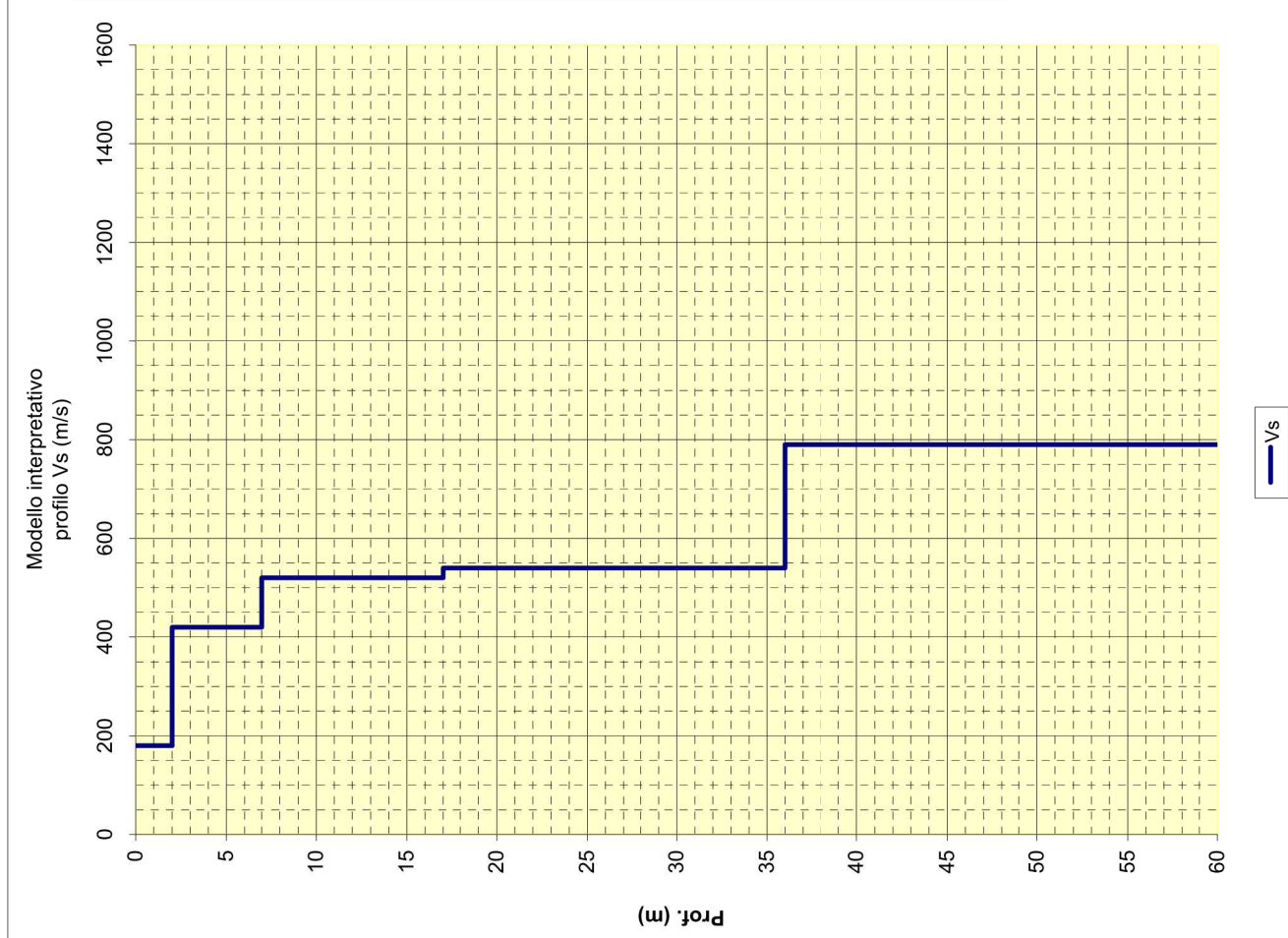
Frequency, Hz

Curva di dispersione

Velocity

Period

Modello interpretativo			
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	2	180
2	2	7	420
3	7	17	520
4	17	36	540
5	36	INF	790
6			
7			
8			
9			
10			



CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R18

LOCALITA': Vergato (BO)

DATA: 14-10-2013

QUOTA: 230 m. s.l.m.

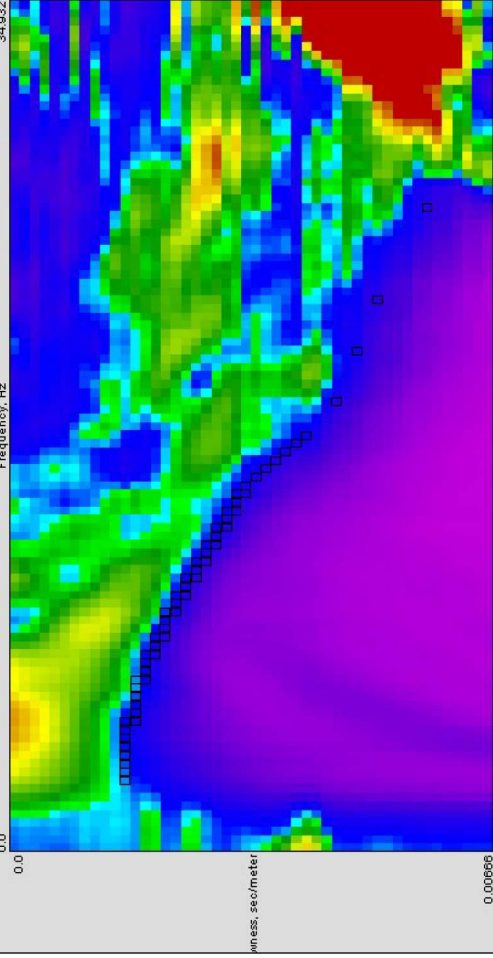
COMMITTENTE: Amm. Comunale

CANTIERE: Vergato

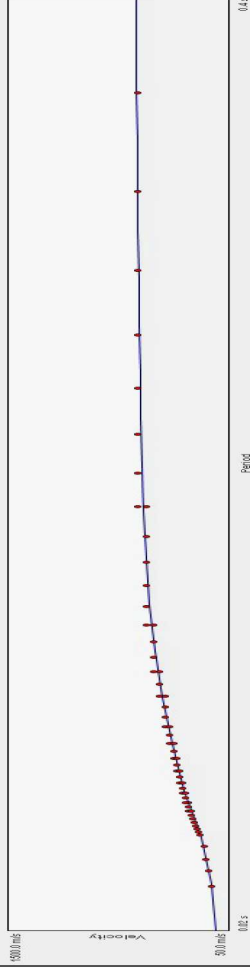
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop: ISINCAVAR/A-VERGAW_181701.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
Frequency: Hz
0.0 34.932



Curva di dispersione

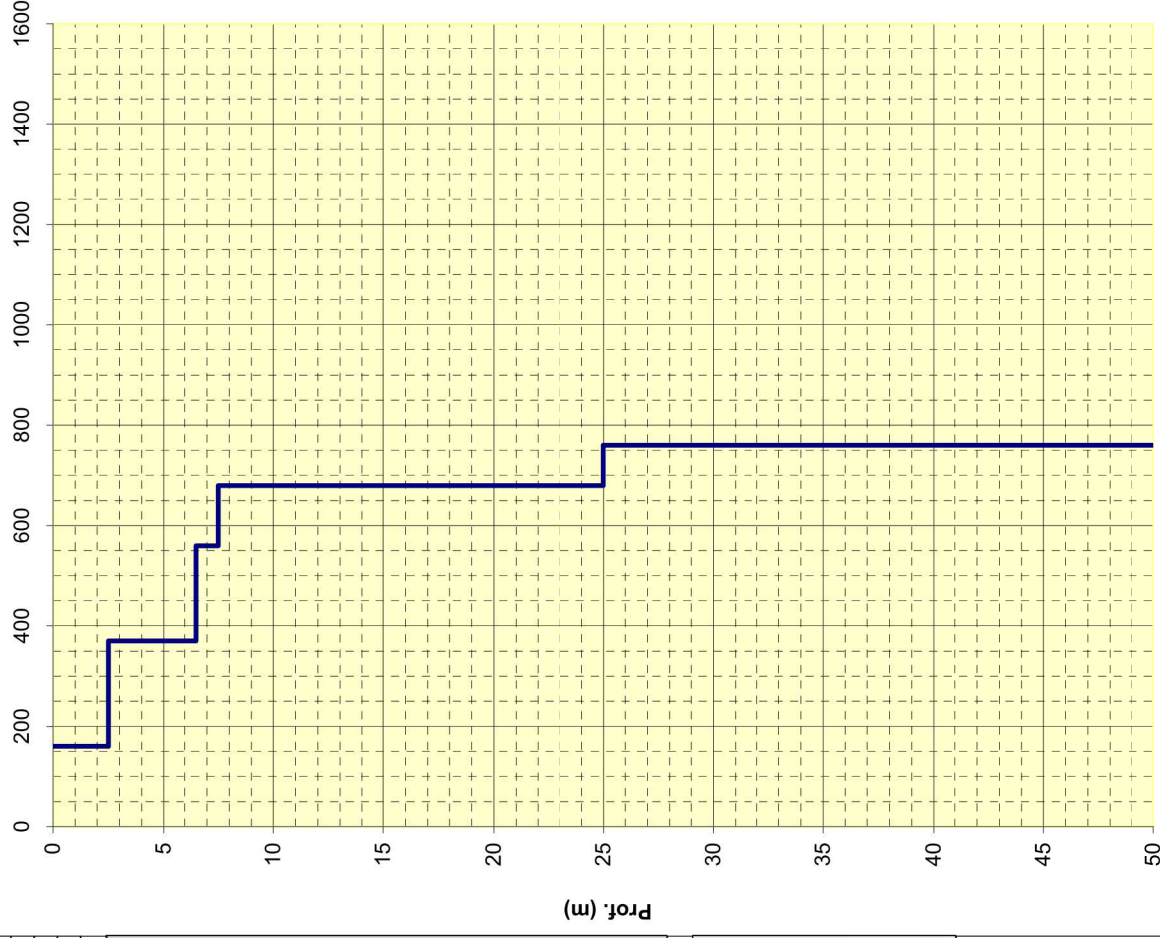


Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	2.5	2.5	160
2	2.5	6.5	4	370
3	6.5	7.5	1	560
4	7.5	25	17.5	680
5	25	INF	INF	760
6				
7				
8				
9				
10				

Modello interpretativo

profilo Vs (m/s)



—Vs

CENTROGEO

P.zza S.Quirino, 6 - 42015 Correggio (RE)

INDAGINE MASW/Re.Mi.

R21

LOCALITA': Vergato (BO)
DATA: 14-10-2013
QUOTA: 660 m. s.l.m.

COMMITTENTE: Amm. Comunale
CANTIERE: Tole
OPERATORI: Mazzetti M. - Arbizzi A.

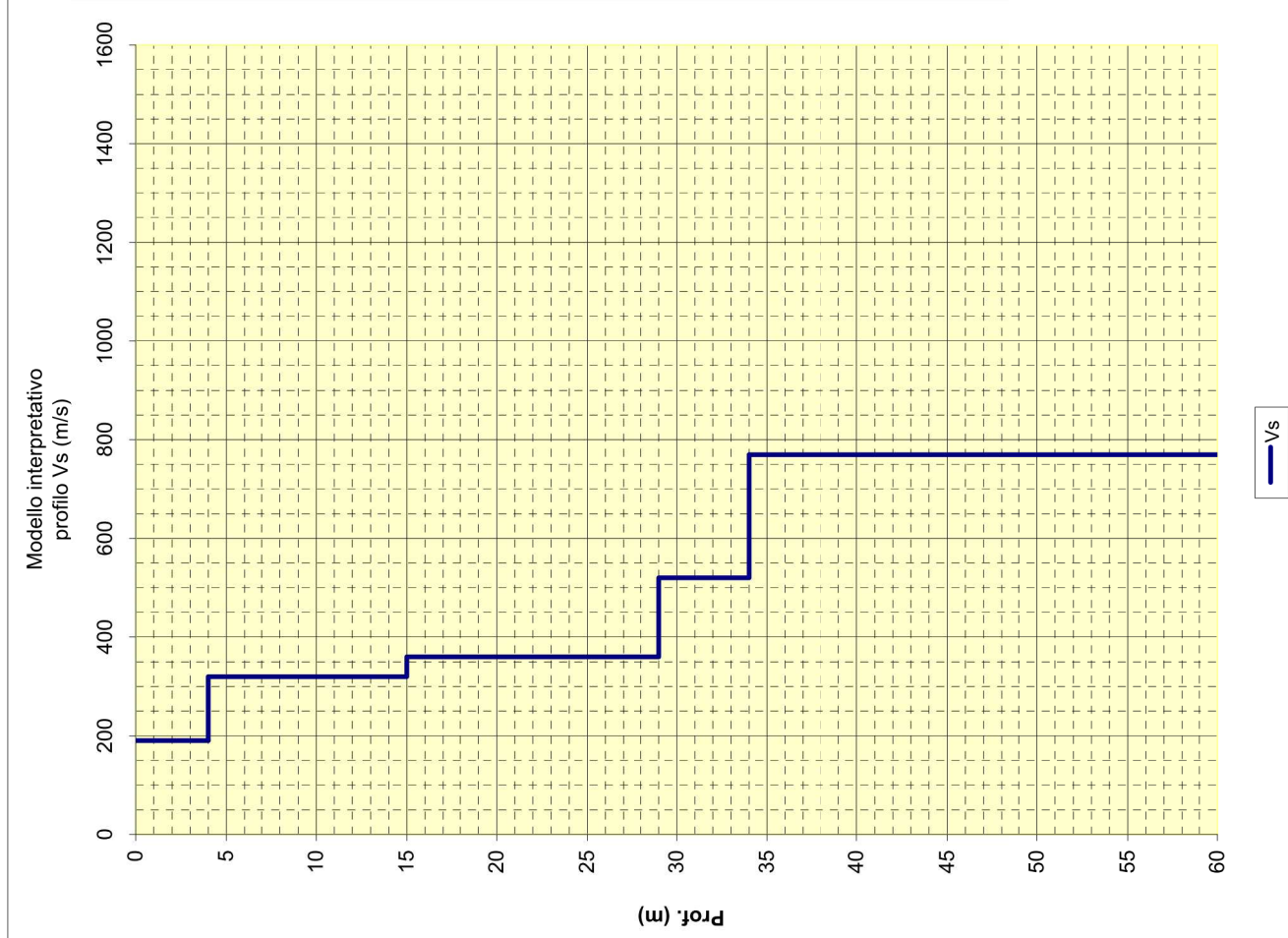
Spettro di potenza
RGEVDKSTOPSISMACAMARZA-VERGANI_211013gy - Step 2_3_4_5 - Pianos: 0, 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19
Frequency: Hz

Averaged Real Spectral Ratio
0.0 12.1

Curva di dispersione

Strato n°	Prof. (m)	Specs. (m)	Vs (m/s)
1	0	4	190
2	4	15	320
3	15	29	360
4	29	34	520
5	34	INF	770
6			
7			
8			
9			
10			

Note:



CENTROGEO

P.zza S. Quirino, 6 - 42015 Correggio (RE)

**INDAGINE MASW/Re.Mi.
R27**

LOCALITA': Vergato (BO)

DATA: 15-10-2013

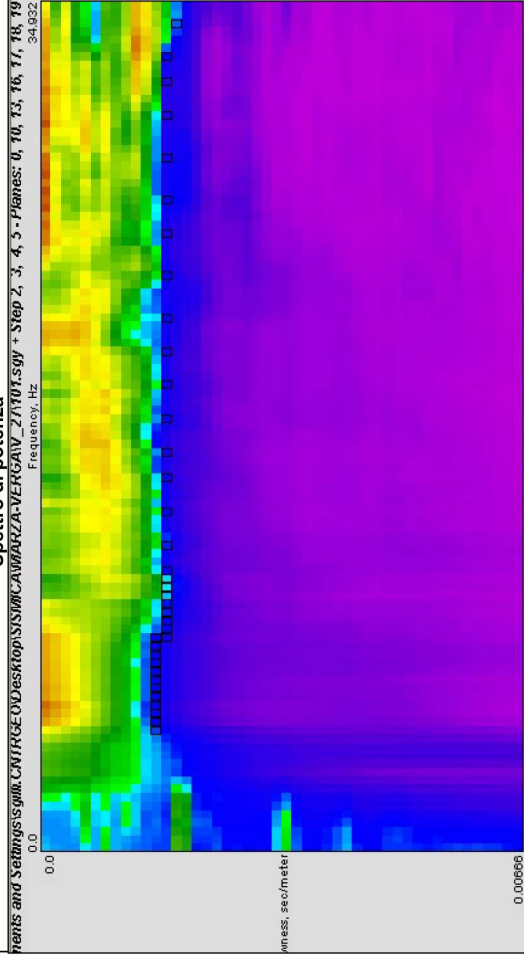
QUOTA: 670 m. s.l.m.

COMMITTENTE: Amm. Comunale

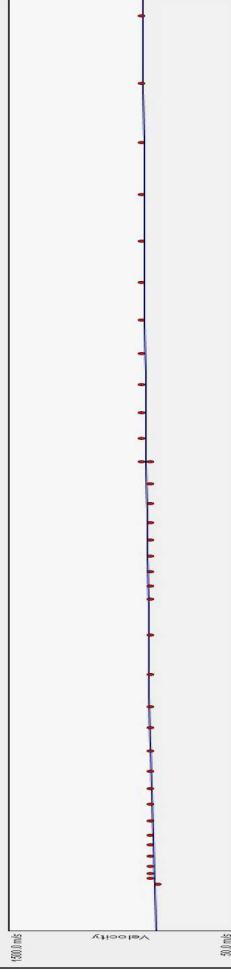
CANTIERE: Cerealia

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione



Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	9	9	600
2	9	37	28	680
3	37	INF	INF	740
4				
5				
6				
7				
8				
9				
10				

INDAGINI GEOFISICHE HVSR

STUDIO GEOLOGICO CENTROGEO

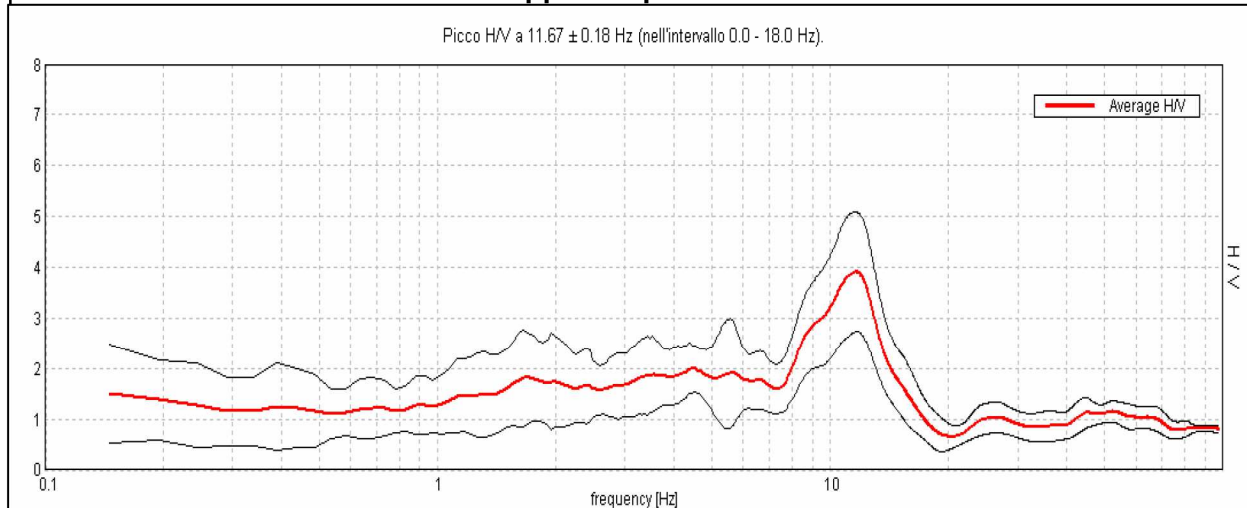
42015 Correggio (RE) - Piazza S.Quirino, 6 - tel 0522/641001 - Fax: 632162

STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H01
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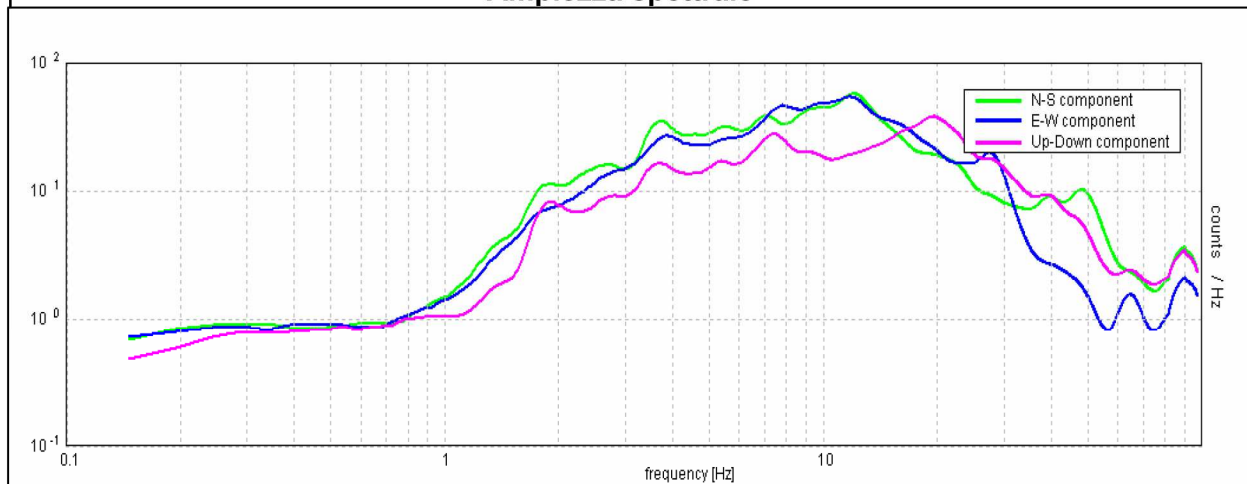
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DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 285 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

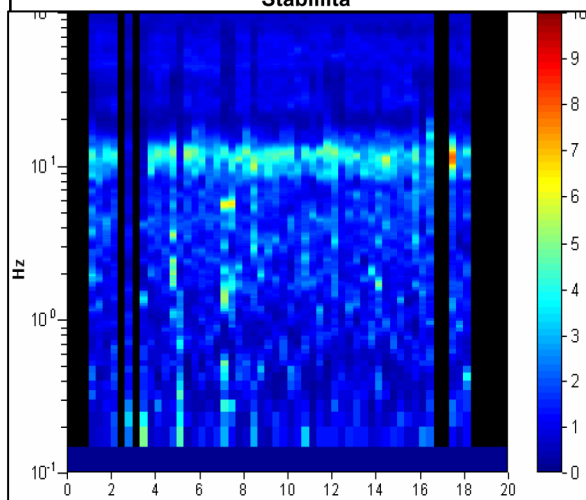
Rapporto spettrale



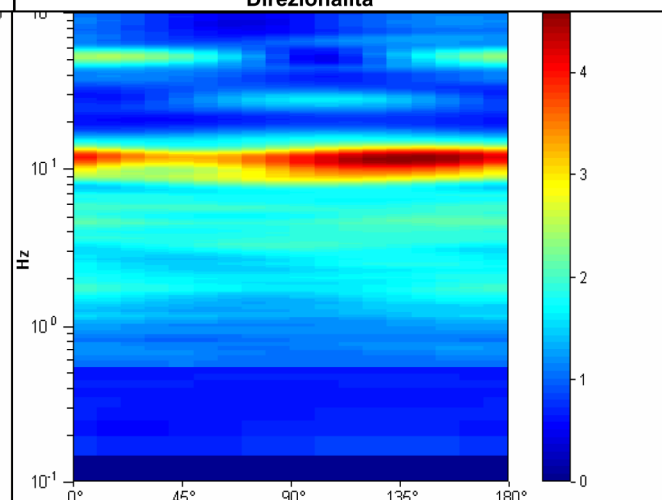
Ampiezza spettrale



Stabilità



Direzionalità

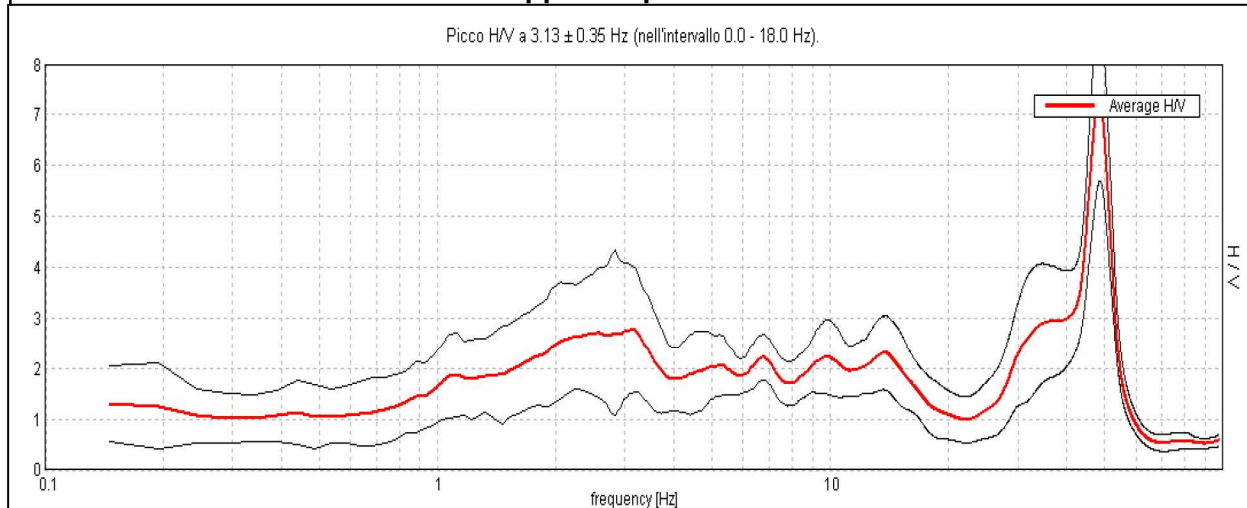


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H02
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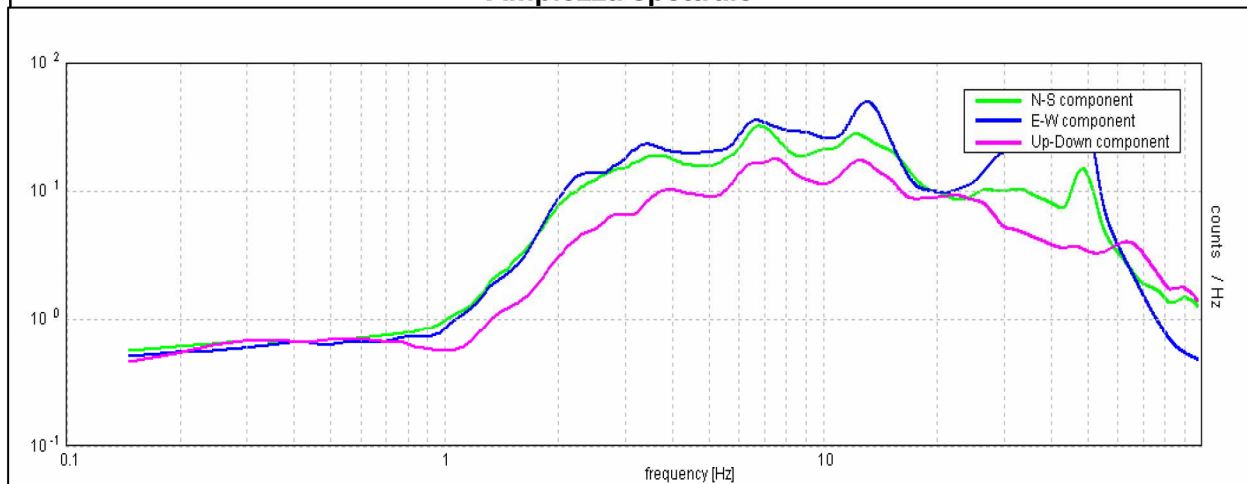
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 275 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

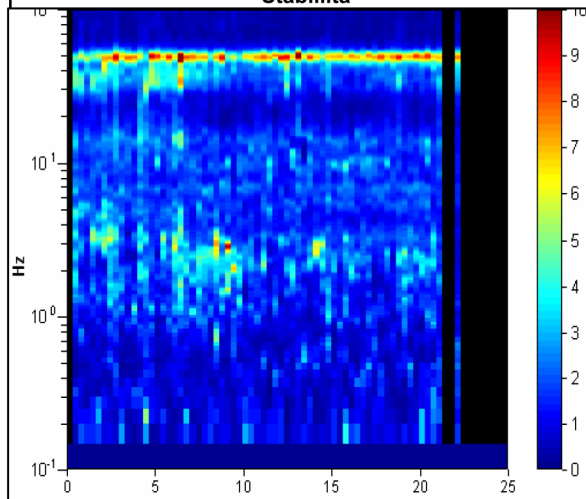
Rapporto spettrale



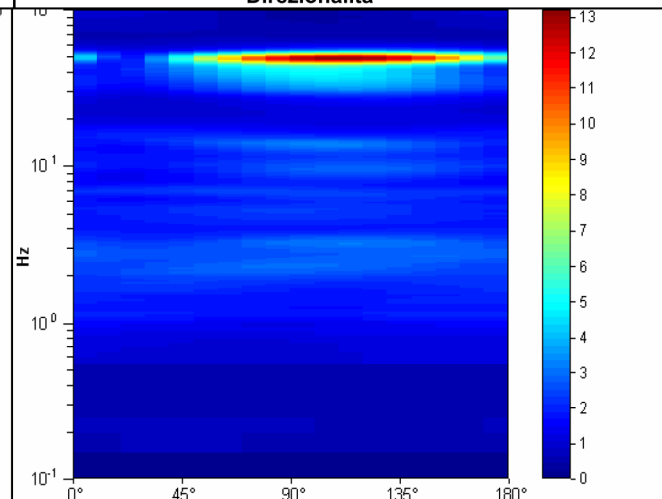
Ampiezza spettrale



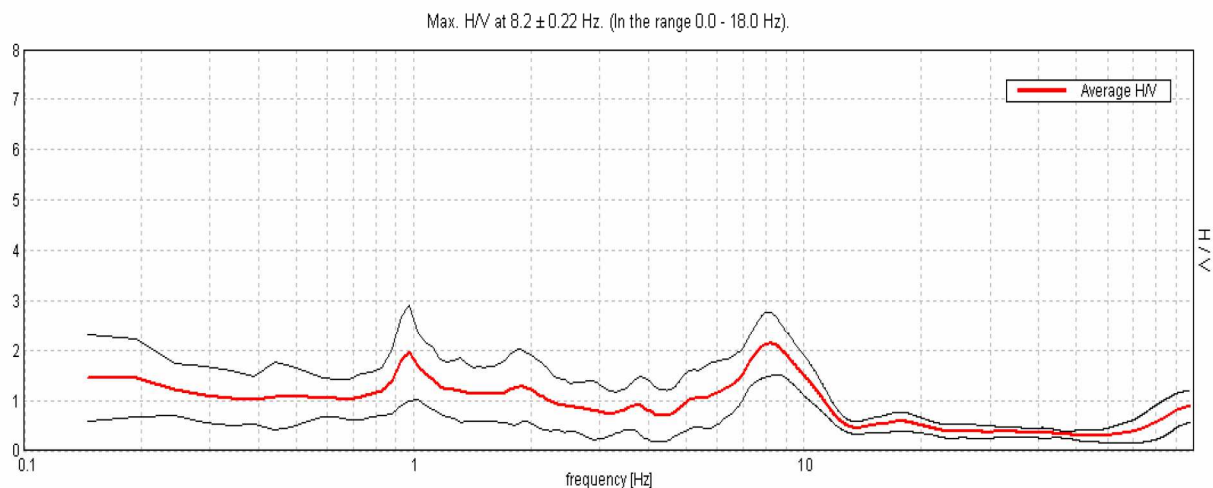
Stabilità



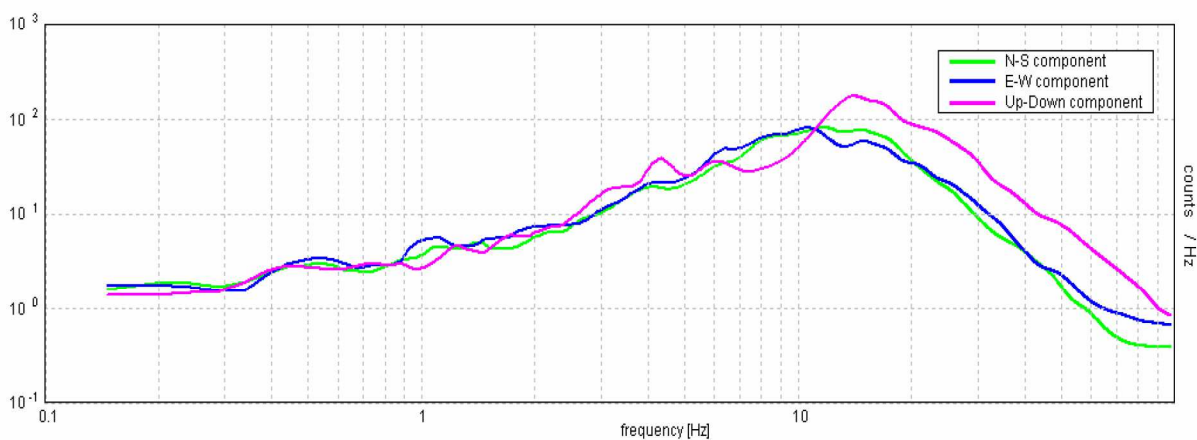
Direzionalità



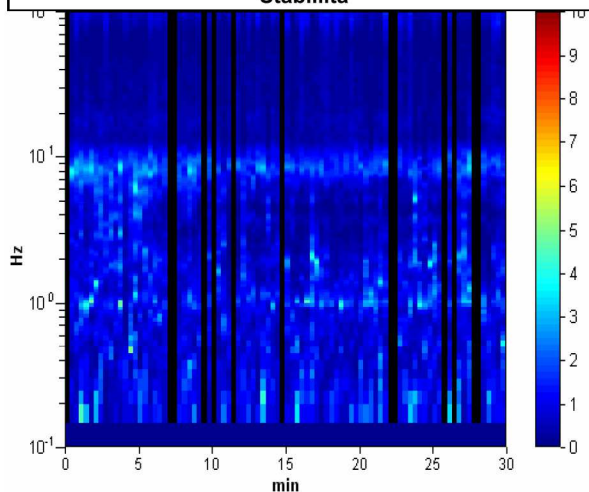
STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO		INDAGINE HVSR H03	
LOCALITA': Vergato (BO)		COMMITTENTE: Amm. Comunale	
DATA: 09-10-2013		CANTIERE: Riola	
QUOTA: 255 m. s.l.m.		OPERATORI: Mazzetti M. - Arbizzi A.	
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488			
Rapporto spettrale			



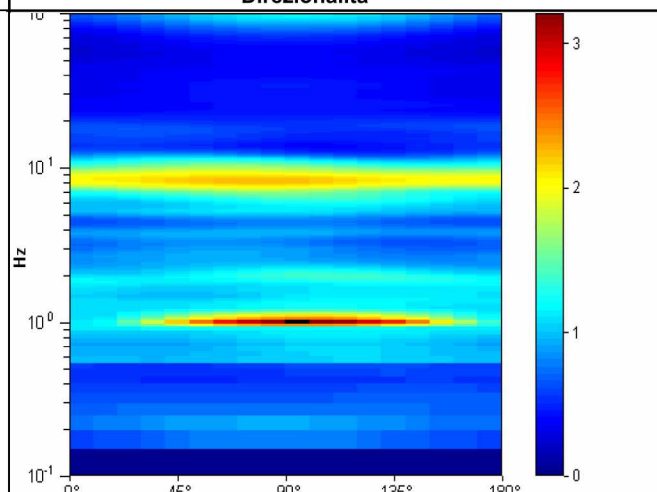
Ampiezza spettrale



Stabilità



Direzionalità

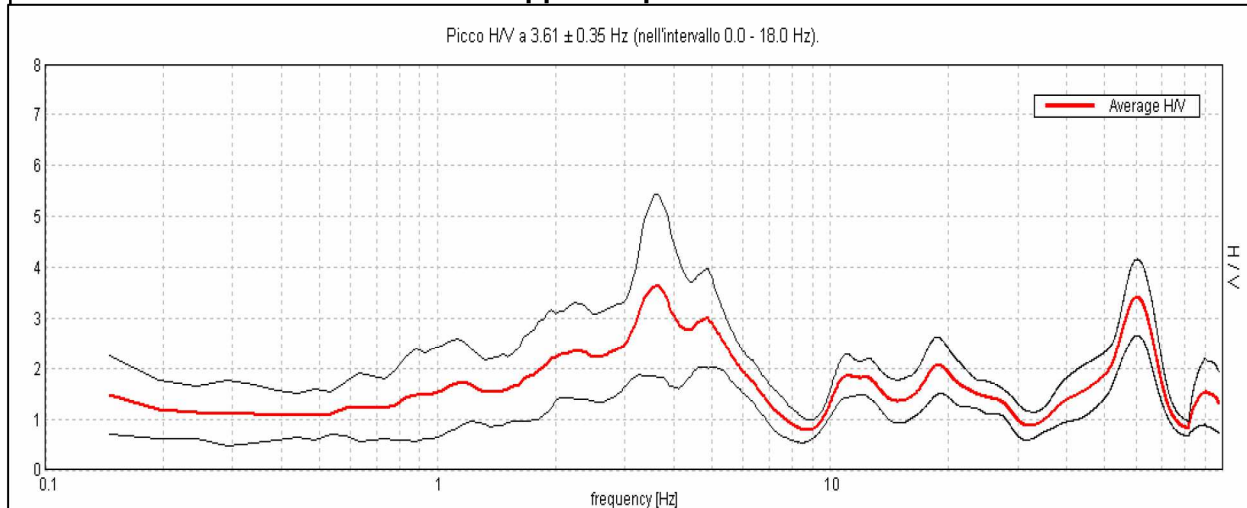


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H04
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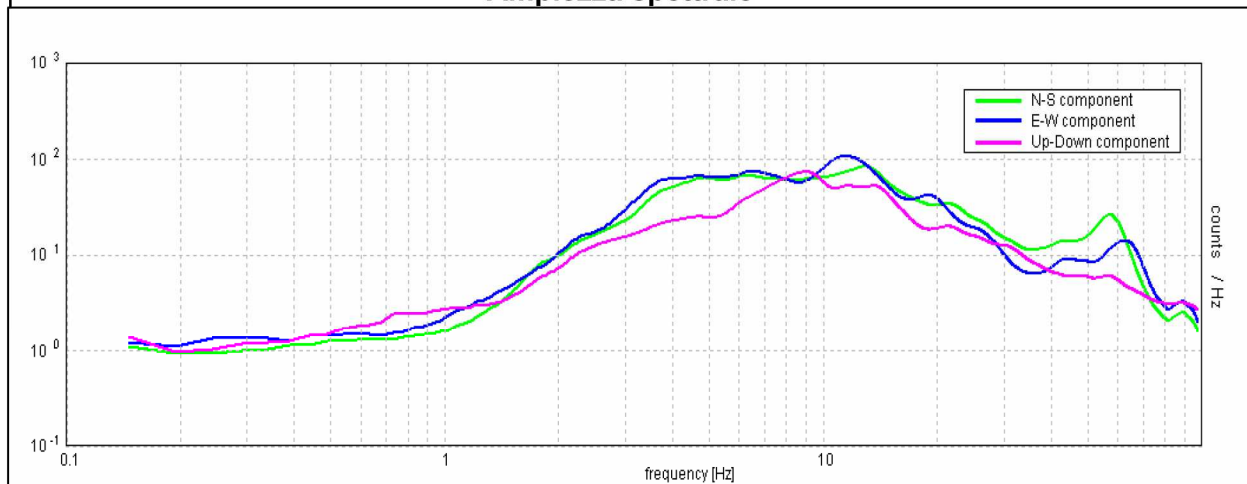
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 260 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

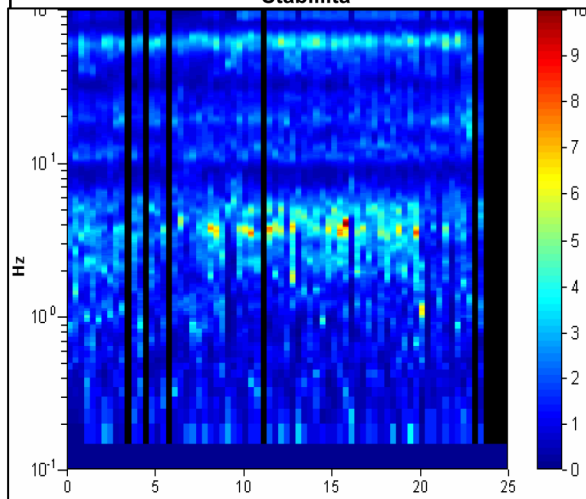
Rapporto spettrale



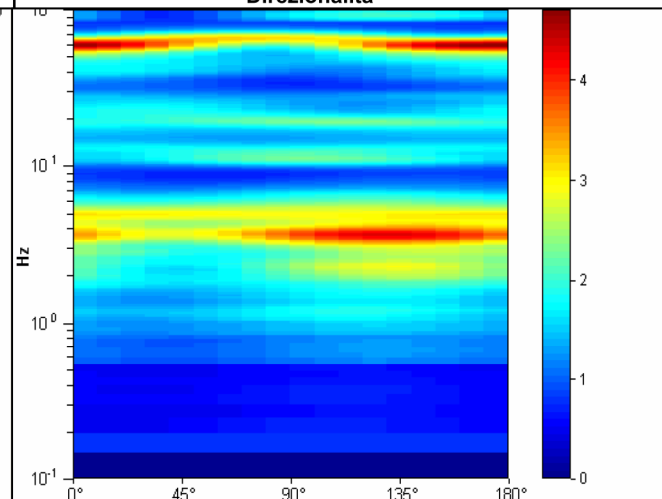
Ampiezza spettrale



Stabilità



Direzionalità

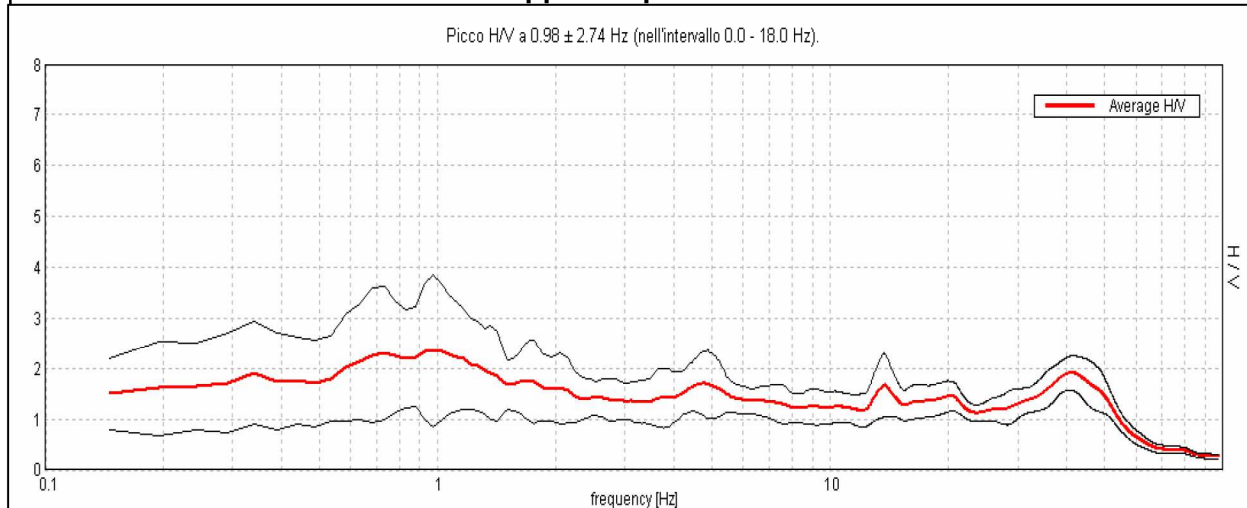


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H05
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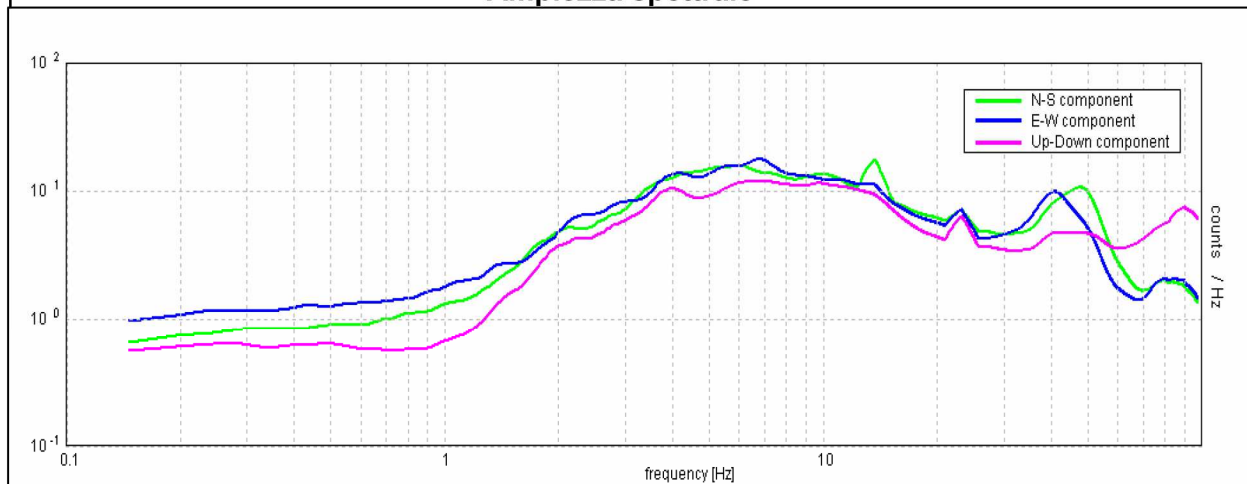
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 240 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

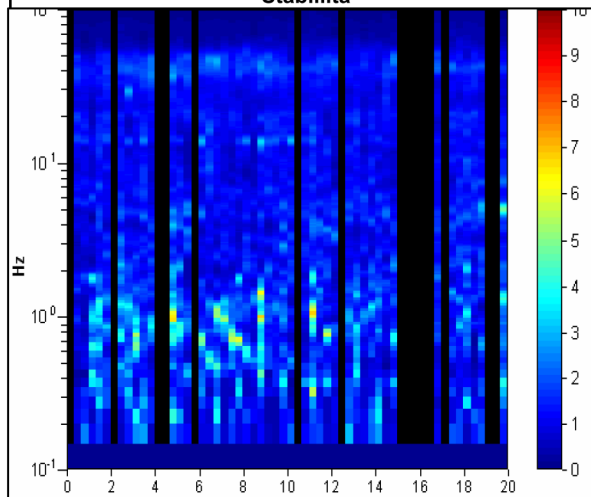
Rapporto spettrale



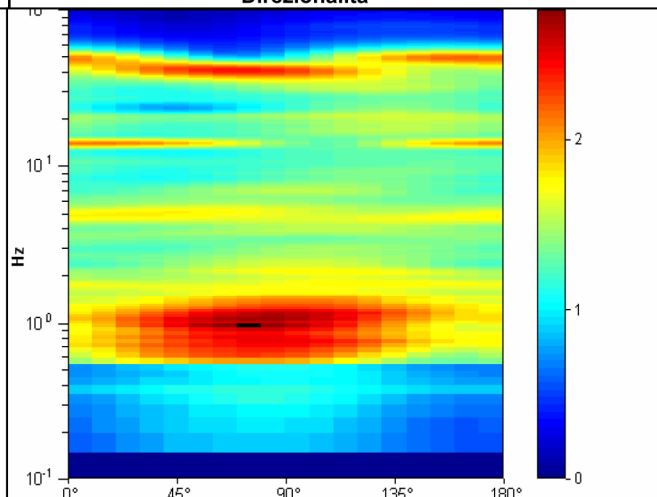
Ampiezza spettrale

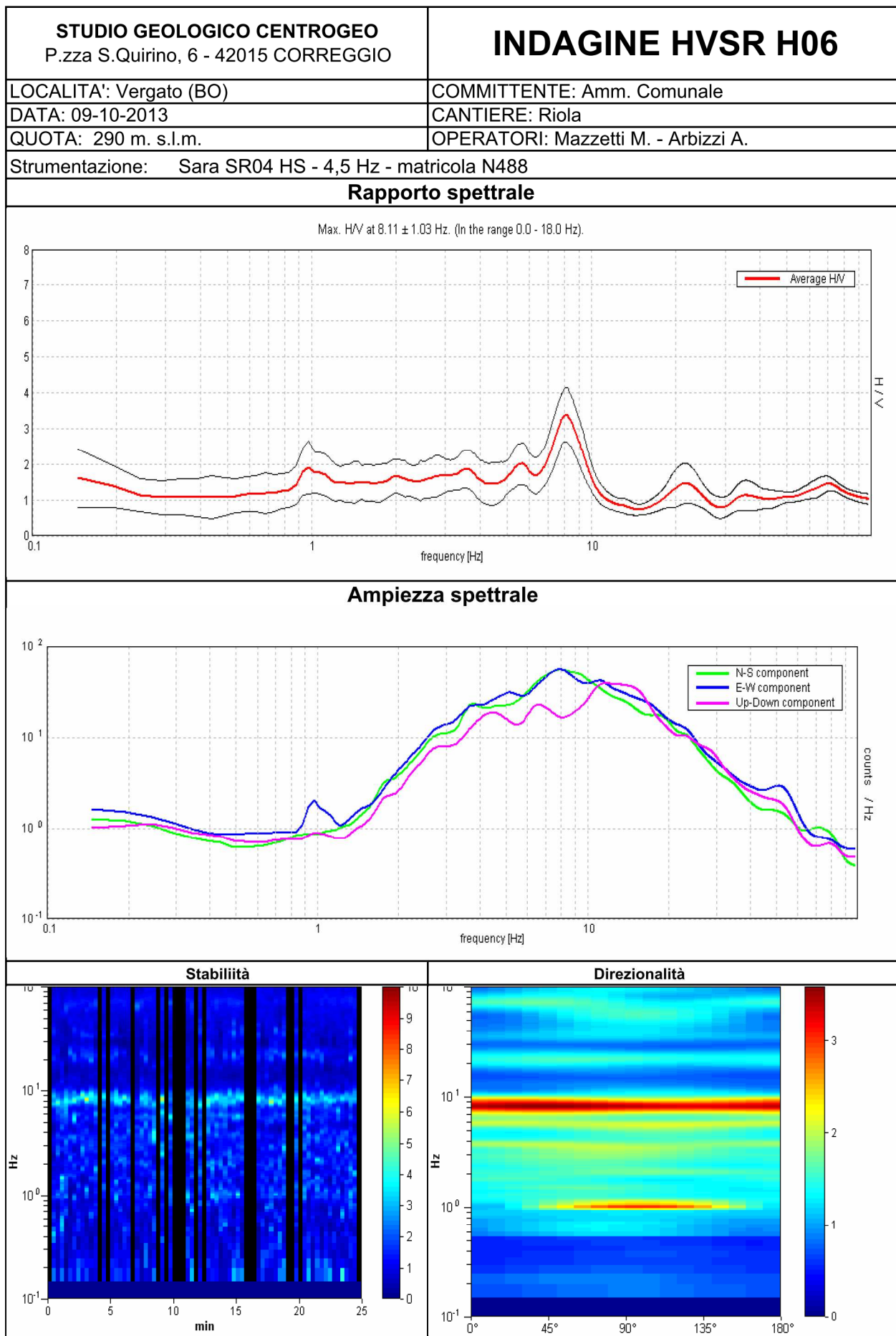


Stabilità



Direzionalità



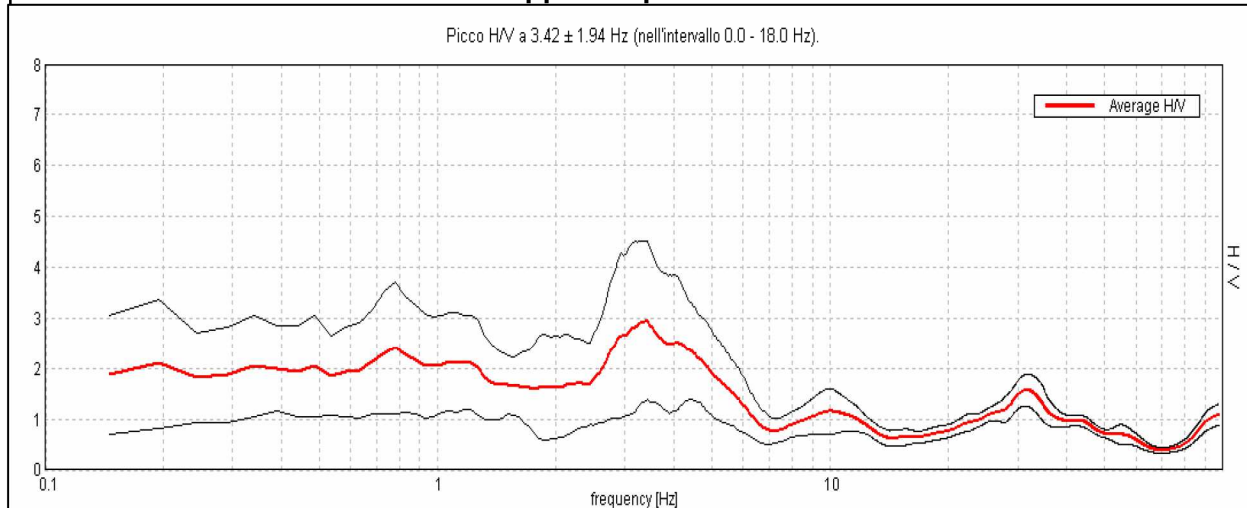


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H07
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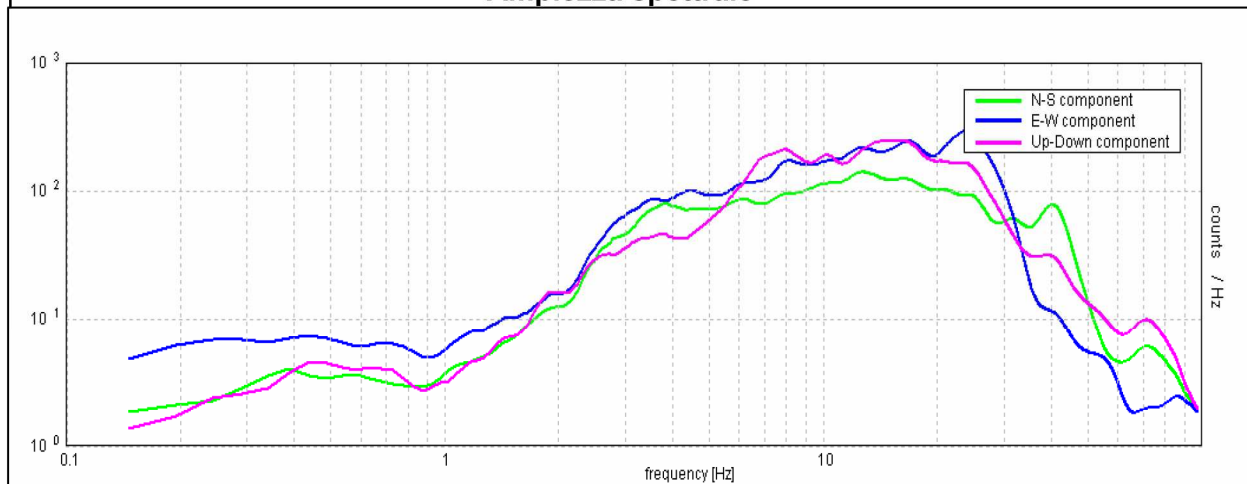
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 265 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

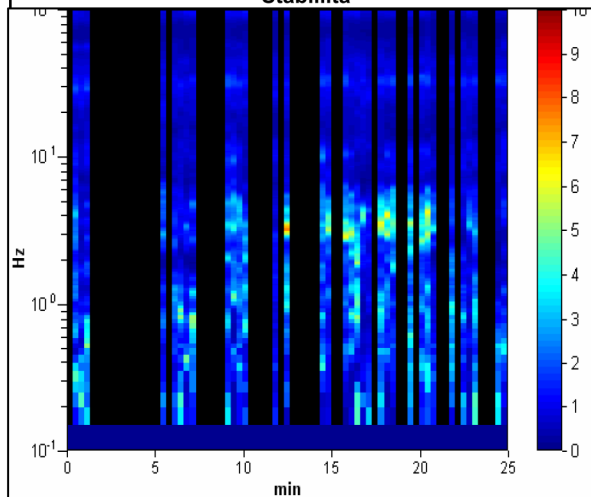
Rapporto spettrale



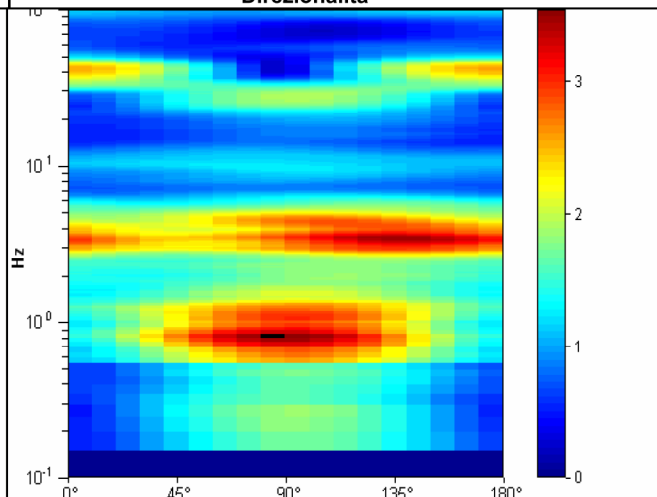
Ampiezza spettrale



Stabilità



Direzionalità

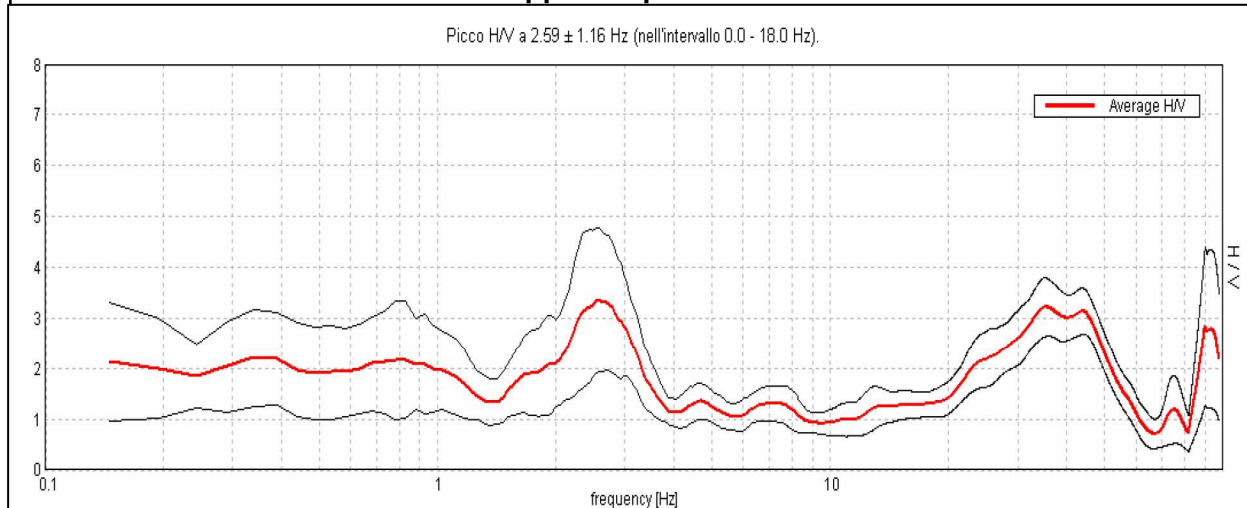


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H08
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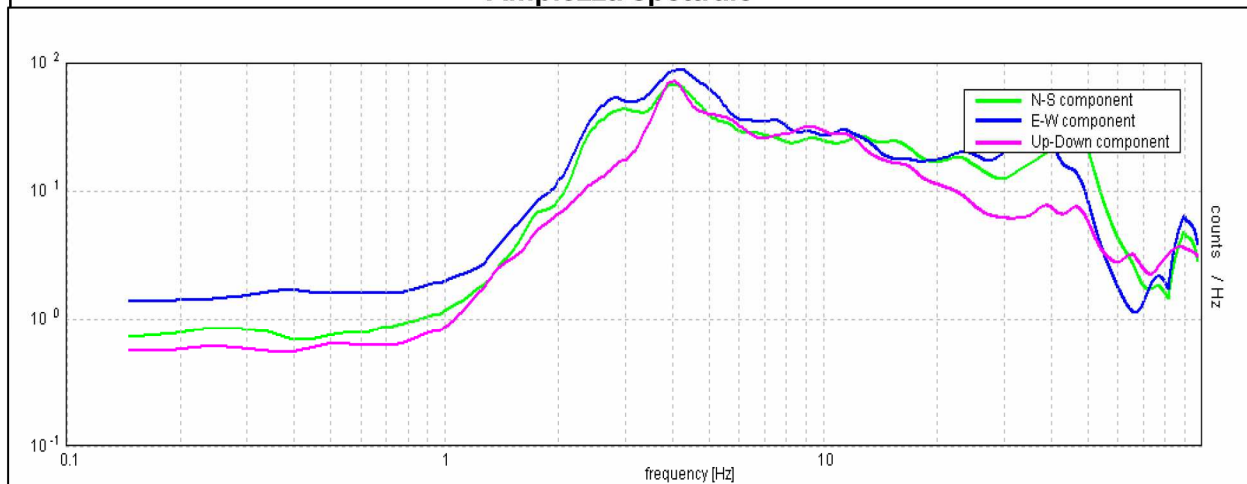
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 340 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

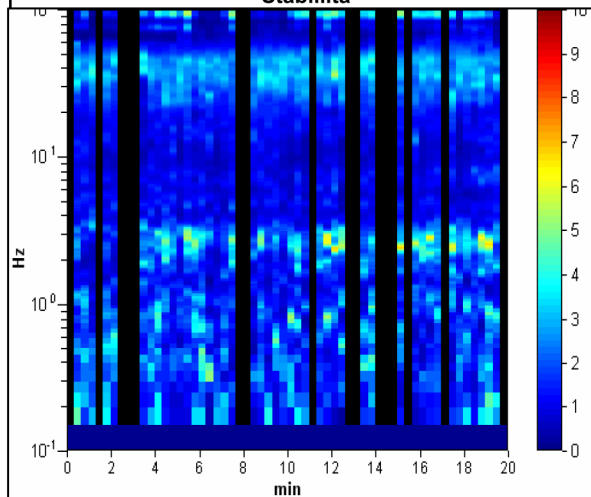
Rapporto spettrale



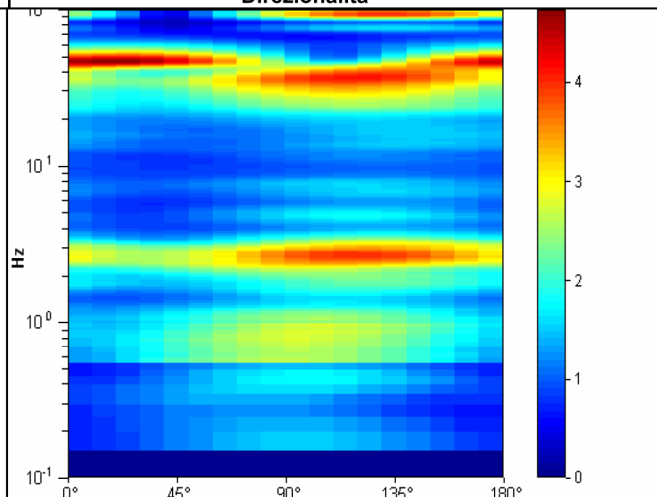
Ampiezza spettrale



Stabilità



Direzionalità

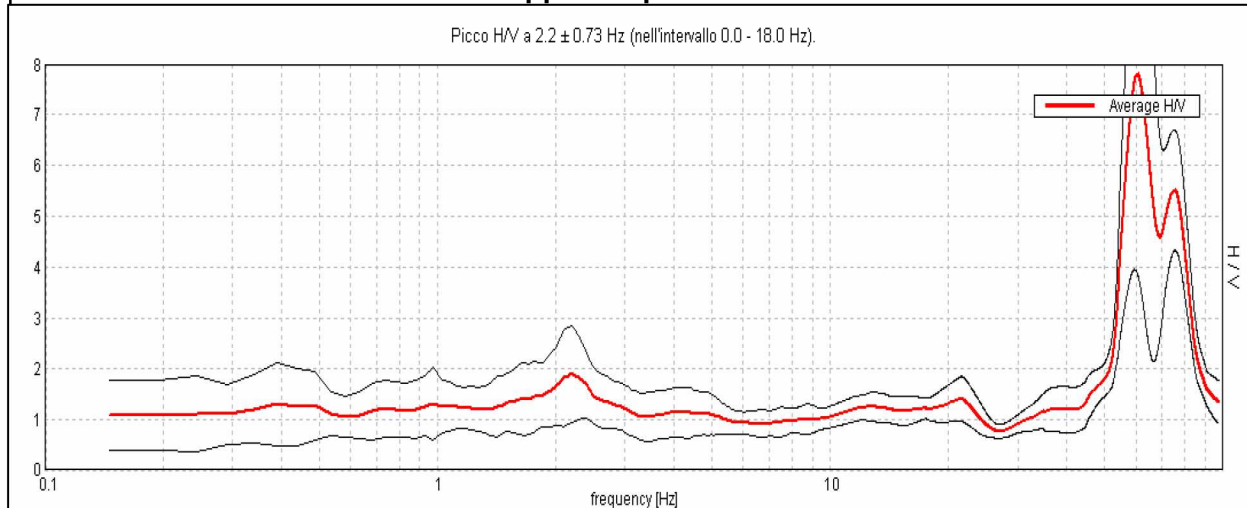


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H09
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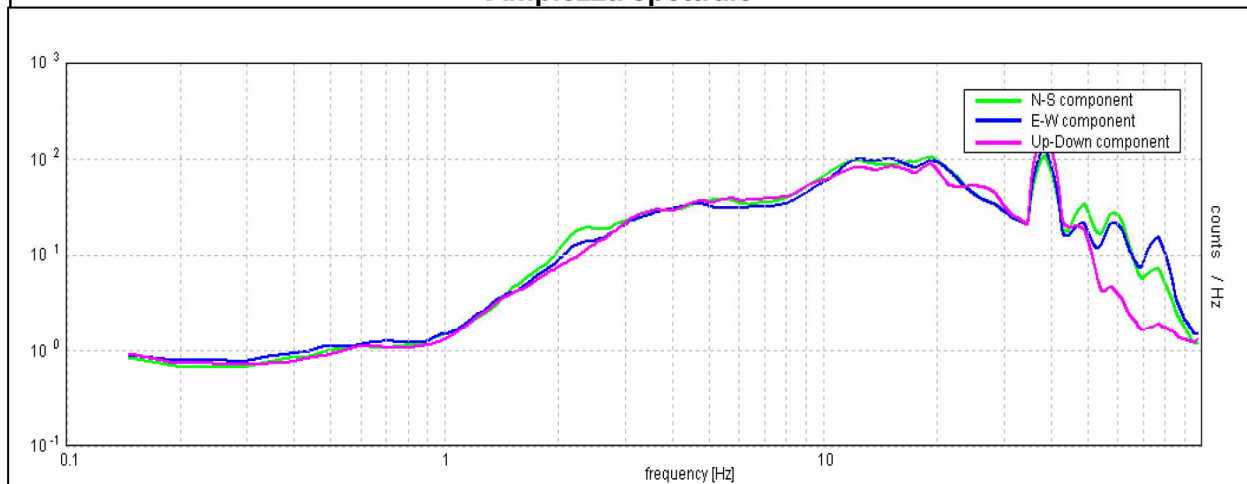
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

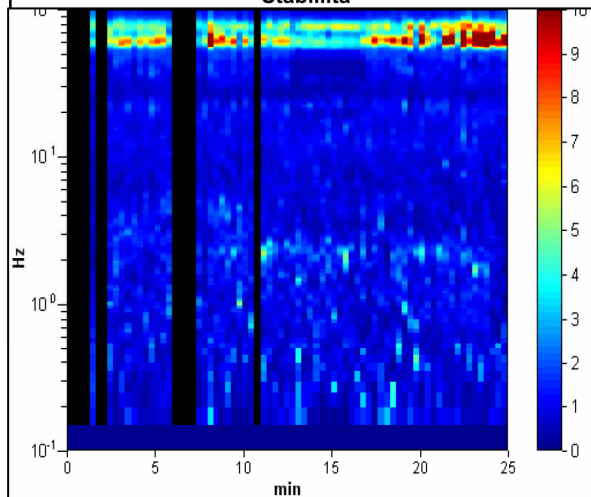
Rapporto spettrale



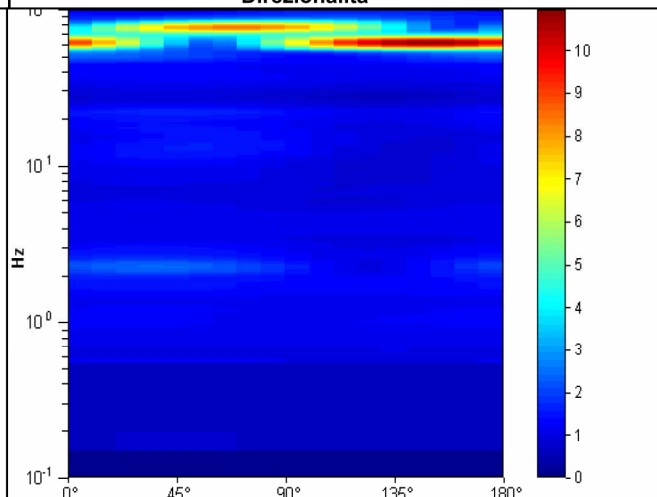
Ampiezza spettrale



Stabilità



Direzionalità

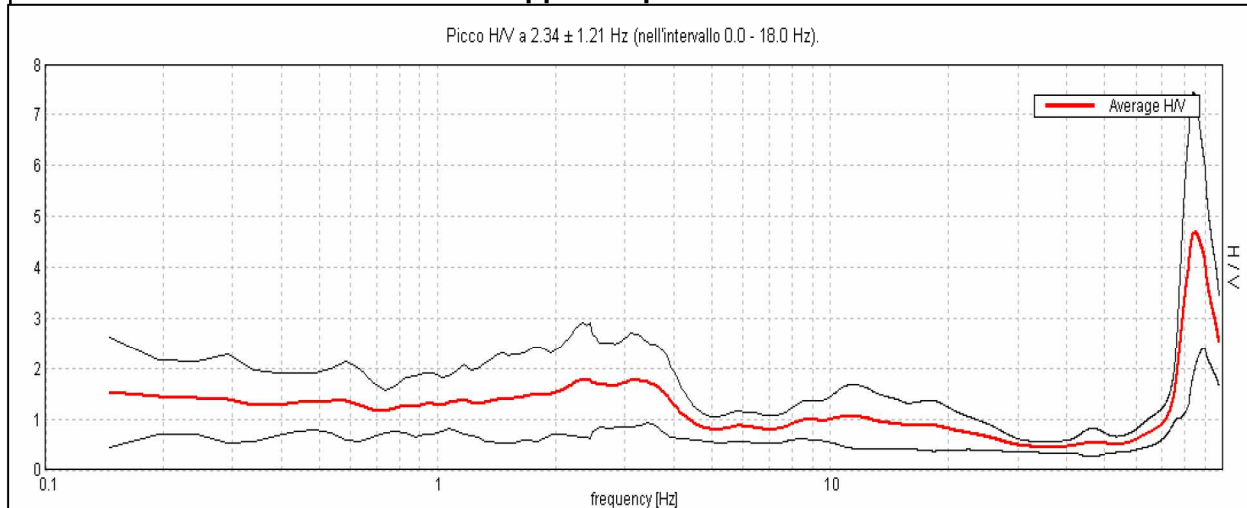


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H10
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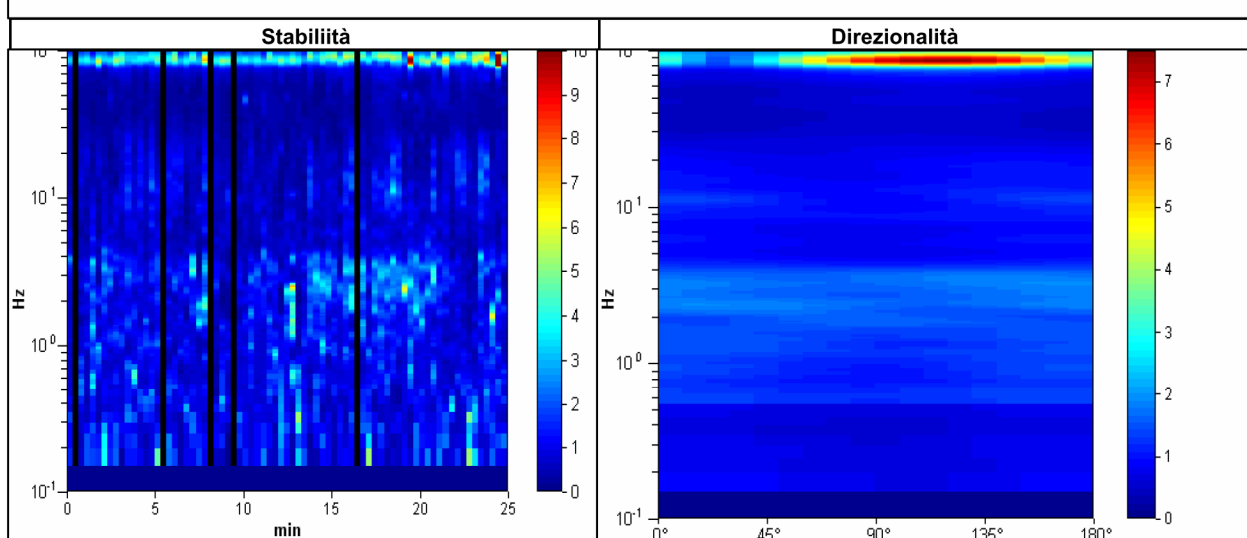
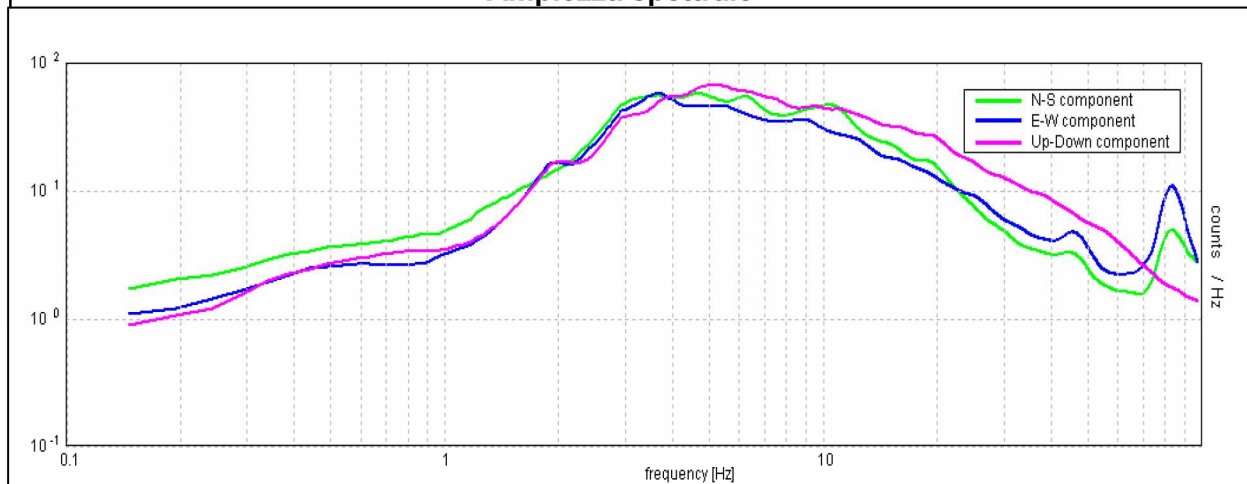
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

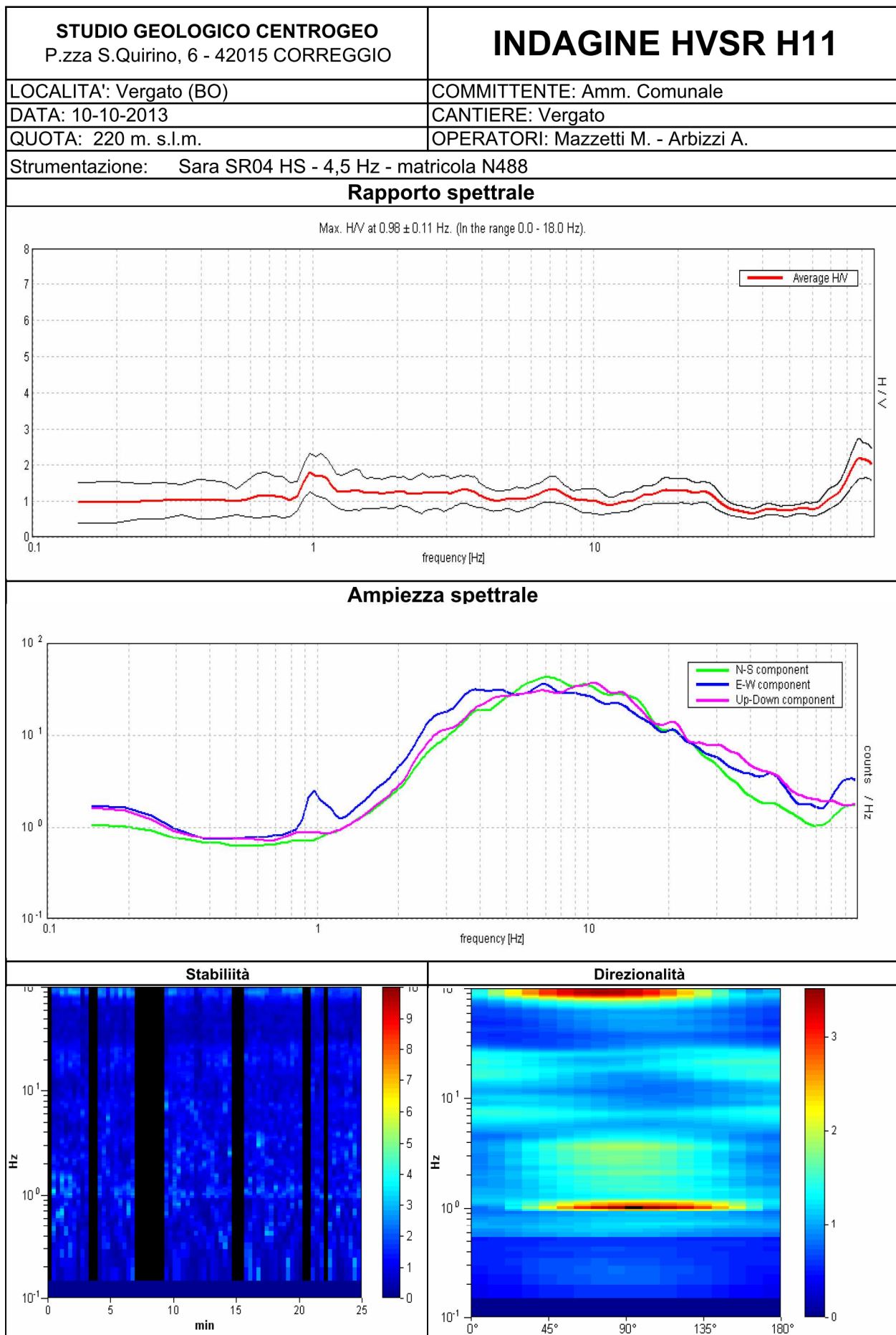
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale



Ampiezza spettrale



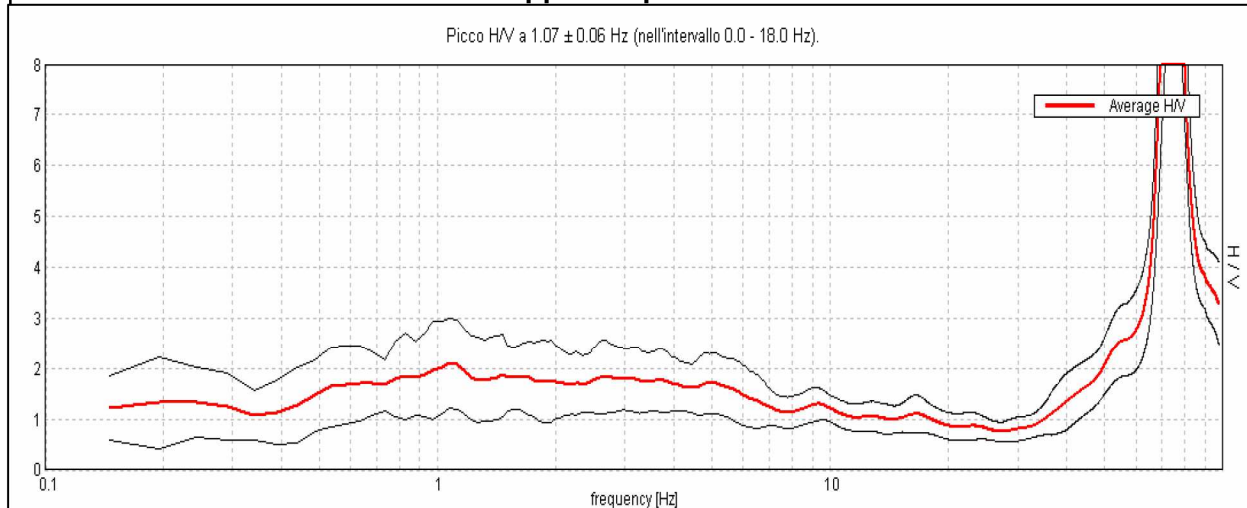


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H12
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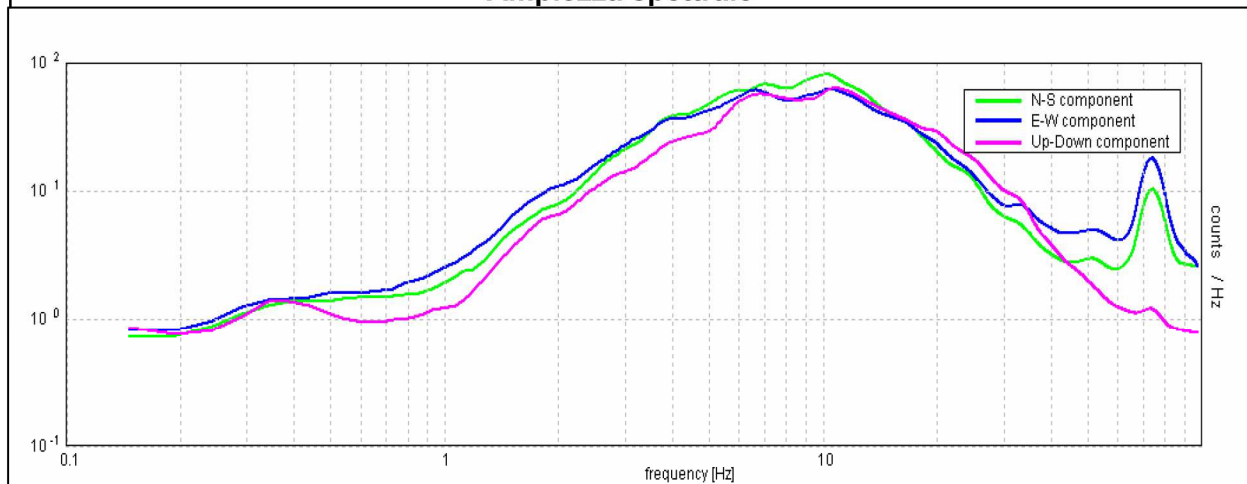
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

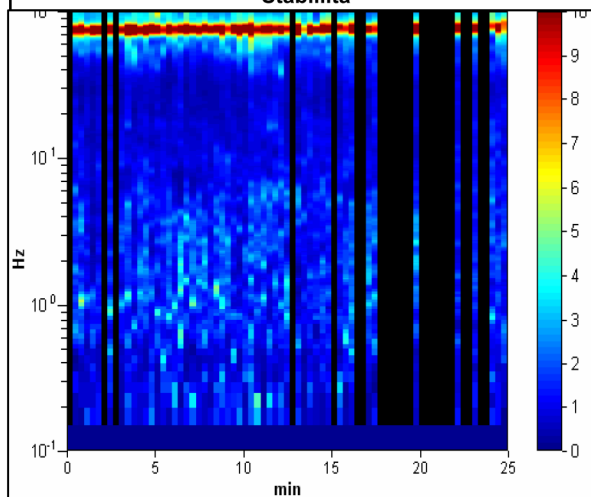
Rapporto spettrale



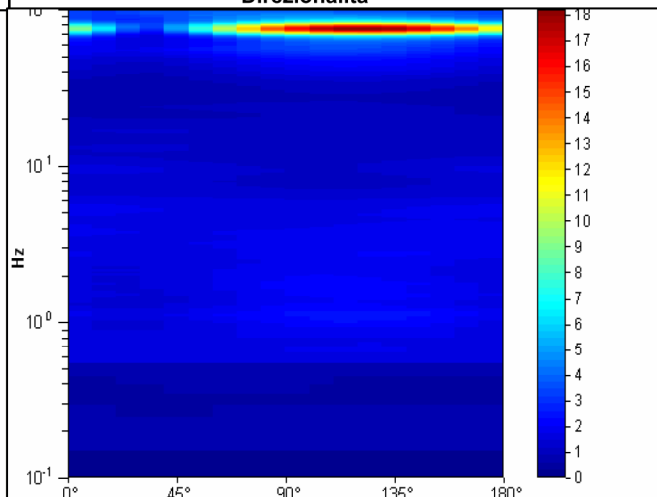
Ampiezza spettrale



Stabilità



Direzionalità

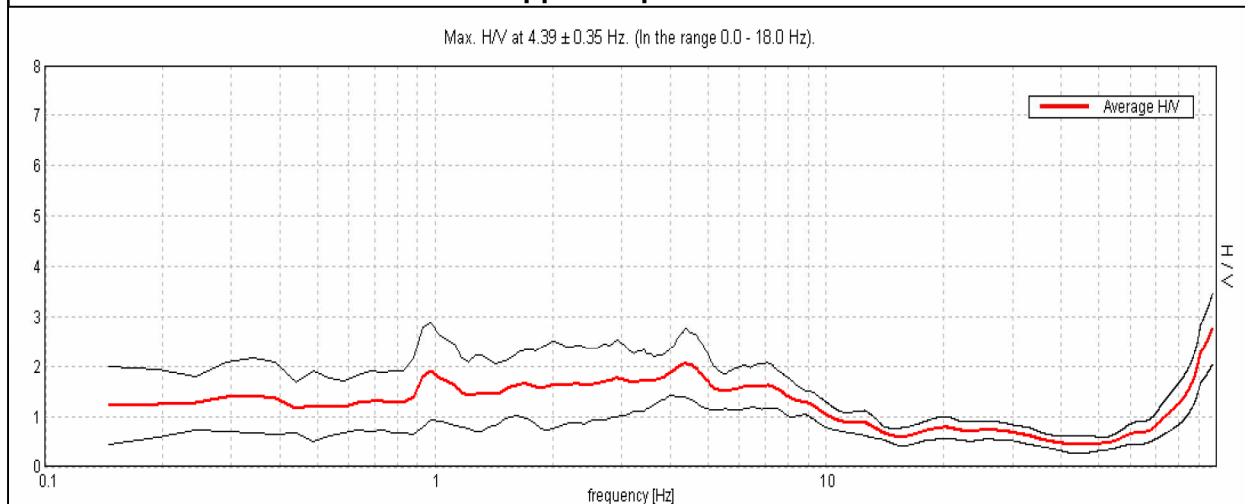


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H13
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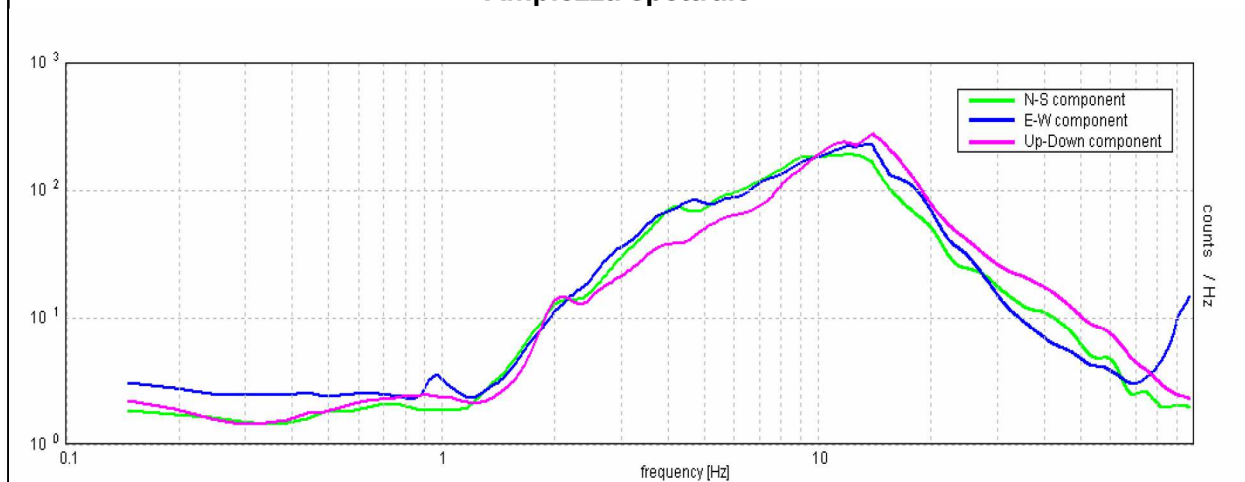
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 200 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

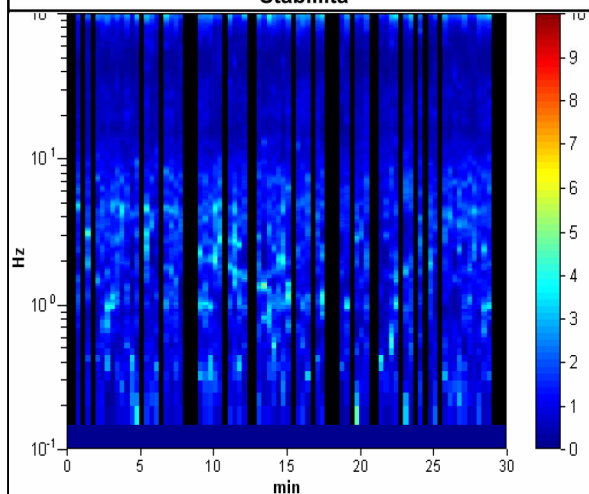
Rapporto spettrale



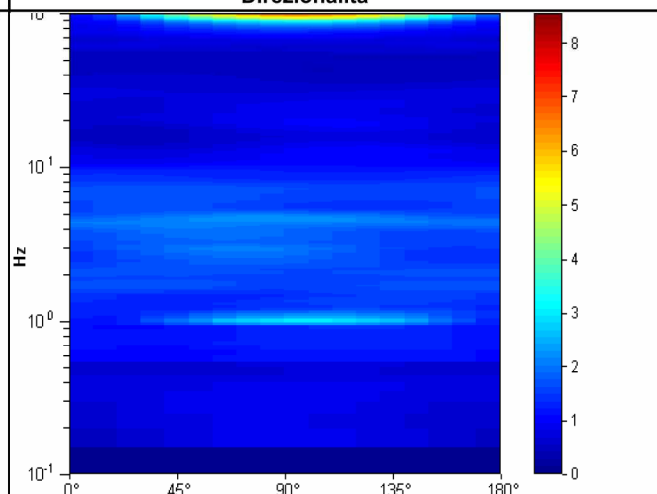
Ampiezza spettrale



Stabilità



Direzionalità

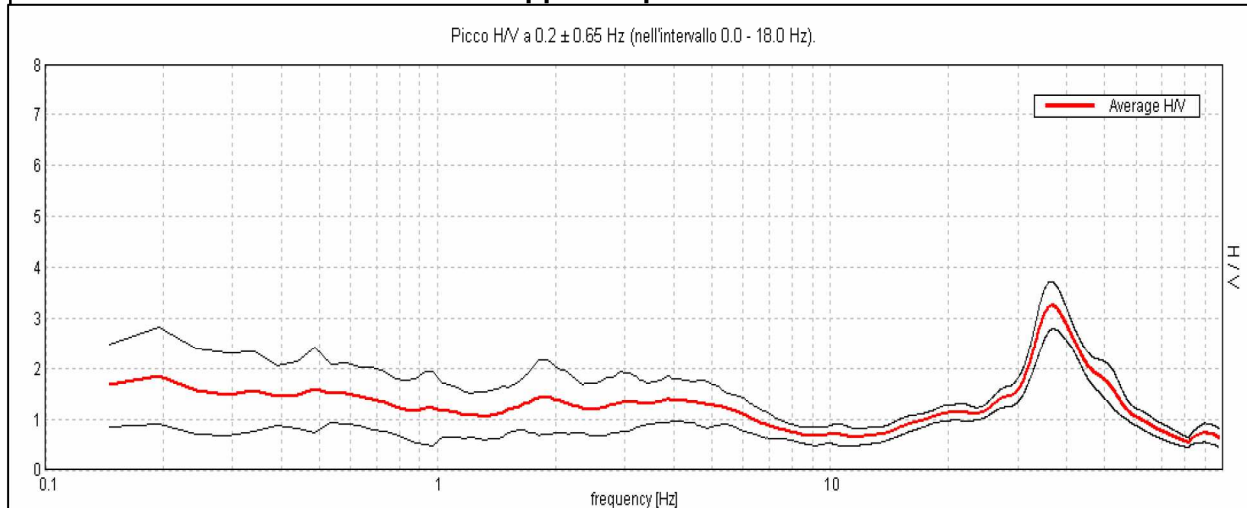


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H14
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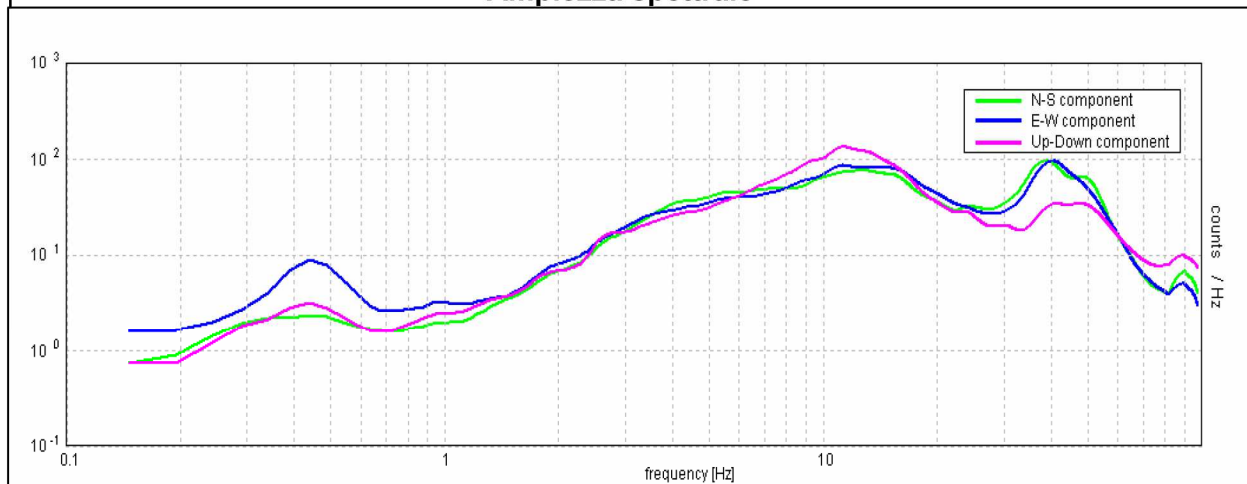
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

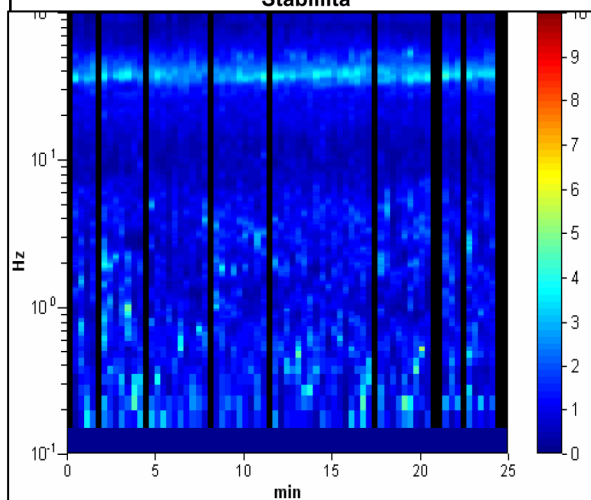
Rapporto spettrale



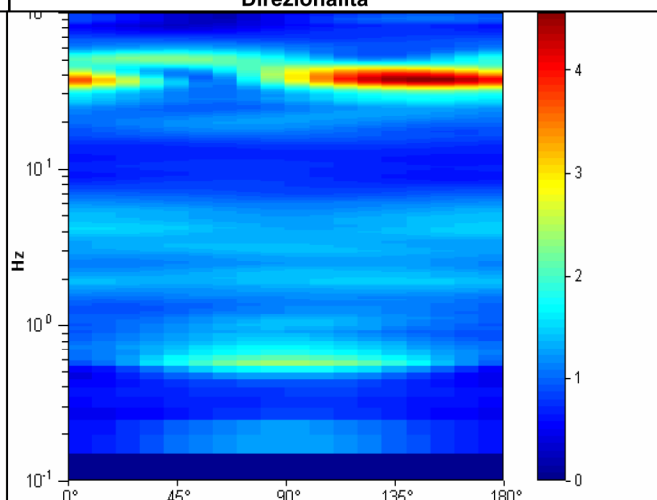
Ampiezza spettrale



Stabilità



Direzionalità

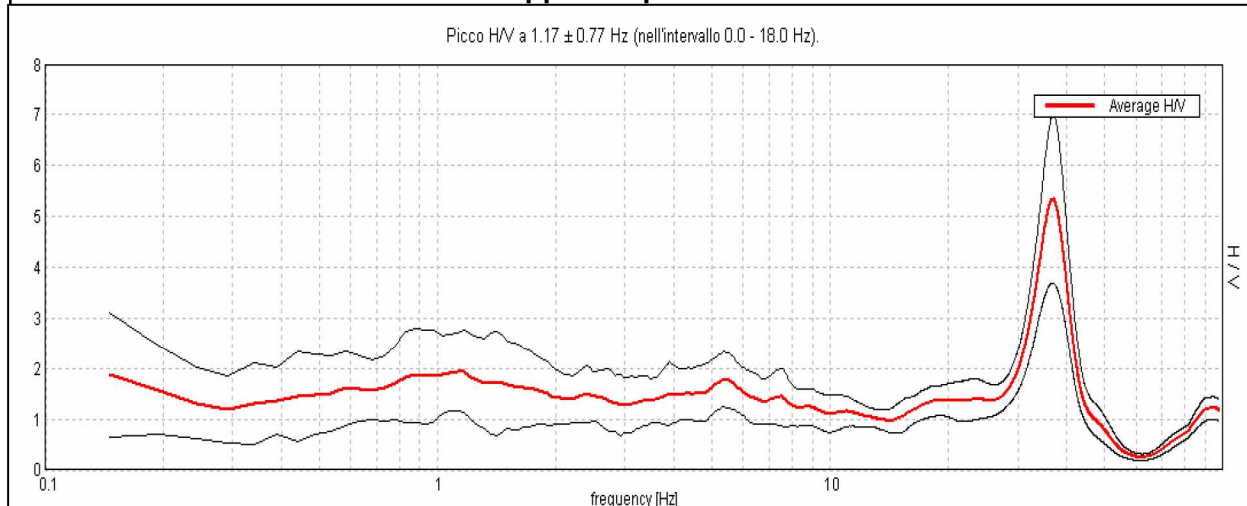


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H15
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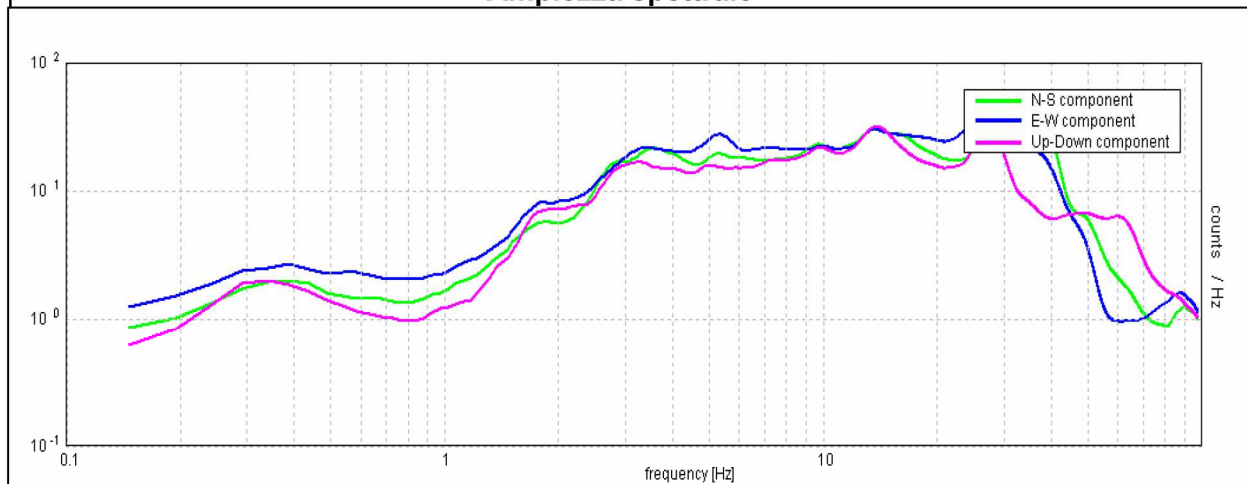
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 215 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

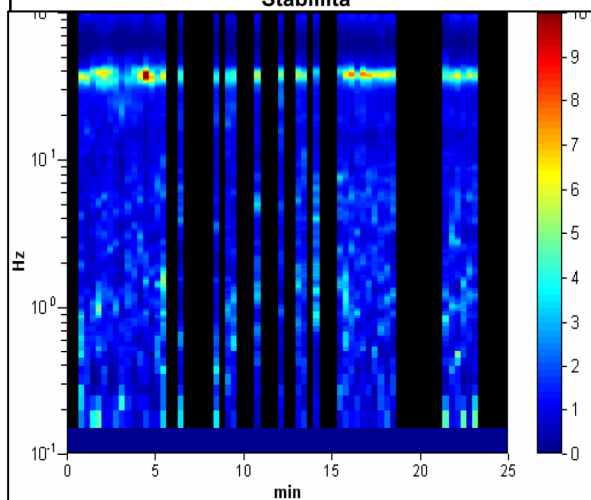
Rapporto spettrale



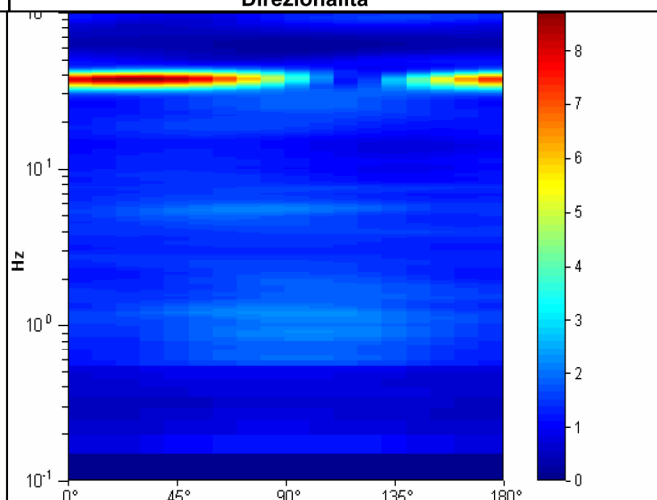
Ampiezza spettrale



Stabilità



Direzionalità

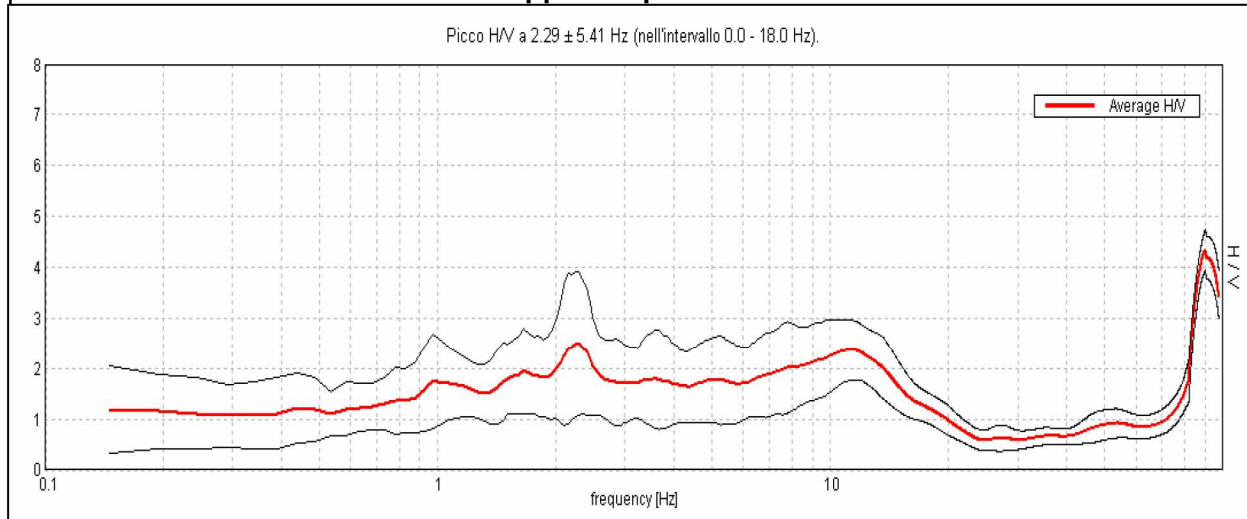


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H16
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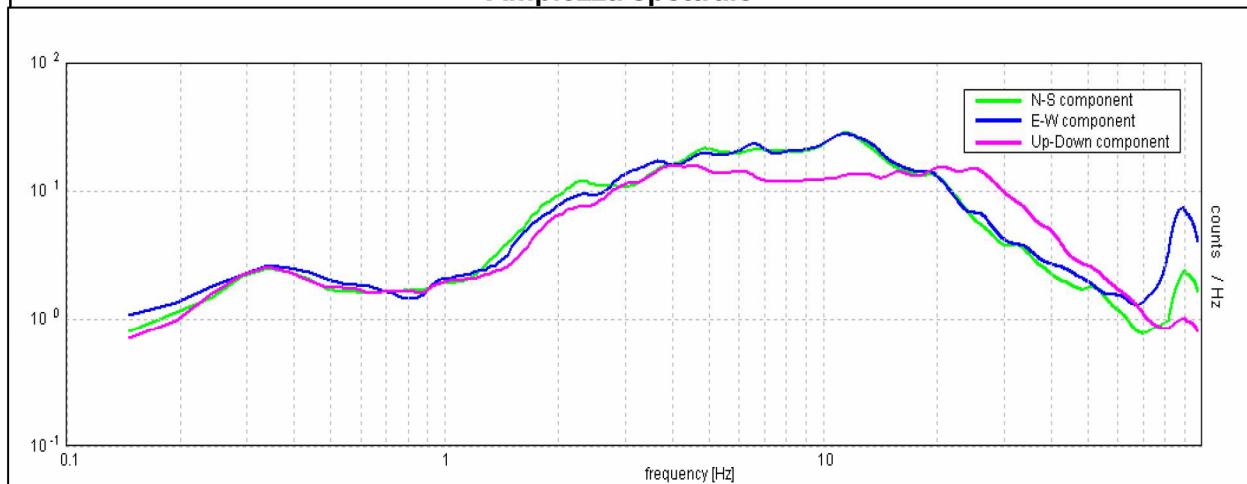
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 255 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

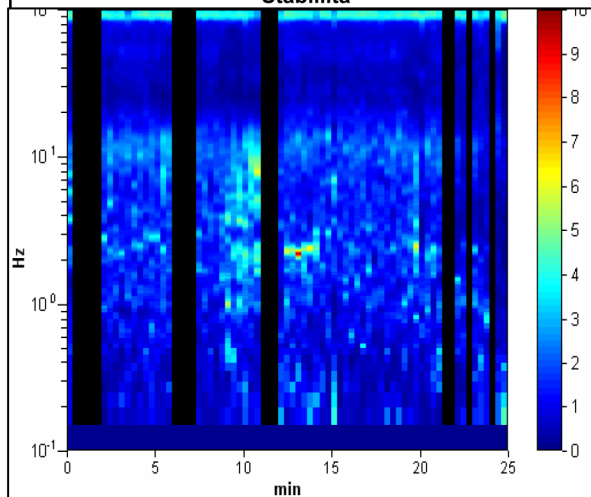
Rapporto spettrale



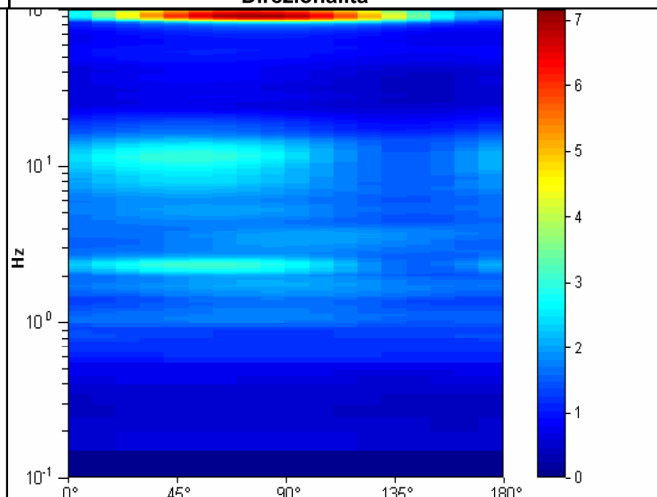
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H17

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Vergato

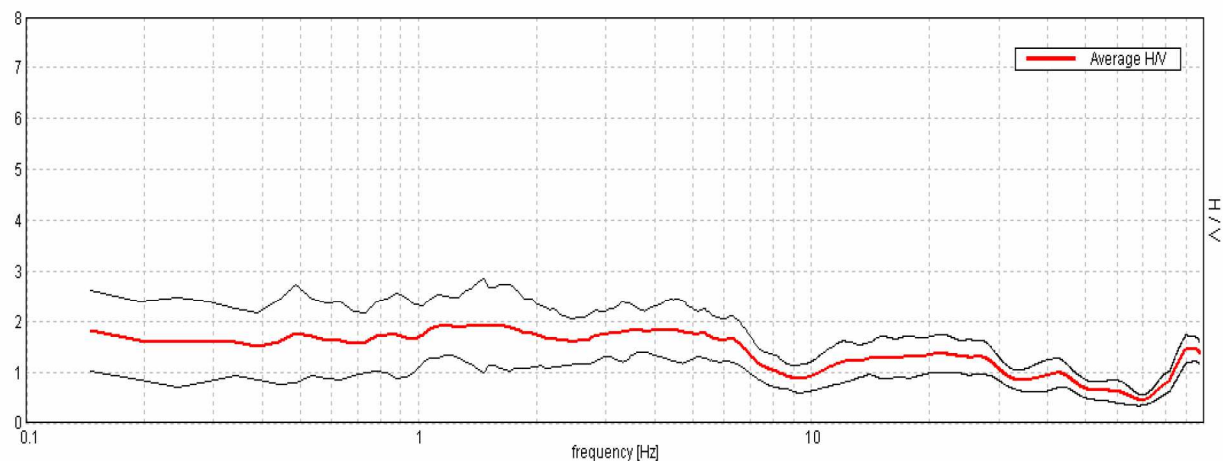
QUOTA: 235 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

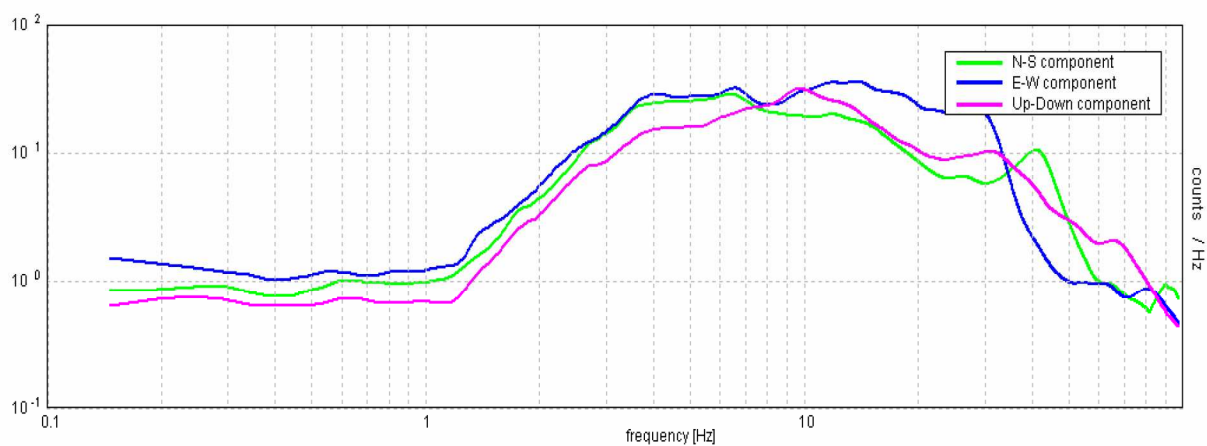
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

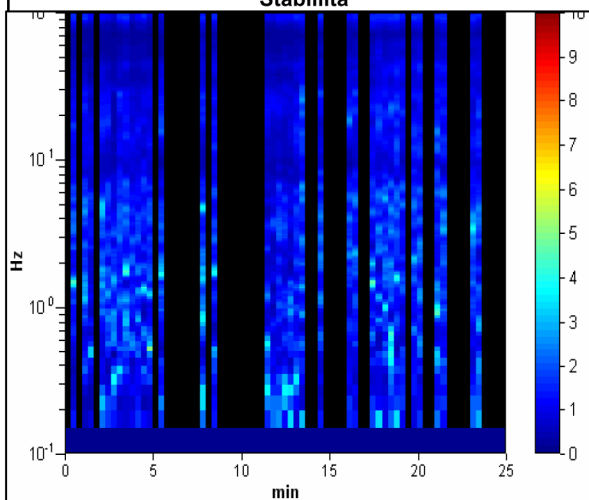
Picco H/V a 1.46 ± 0.18 Hz (nell'intervallo 0.0 - 18.0 Hz).



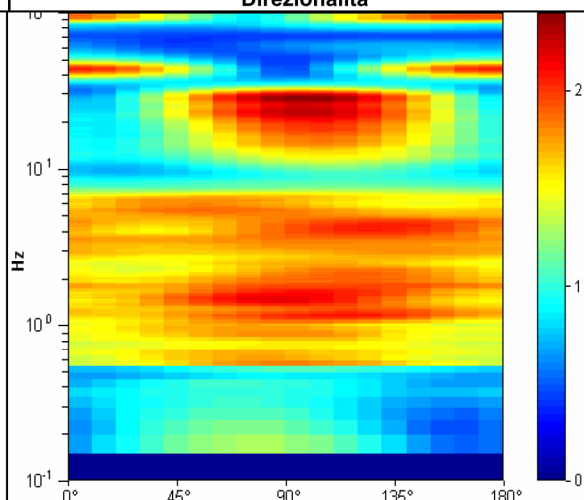
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H18

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Vergato

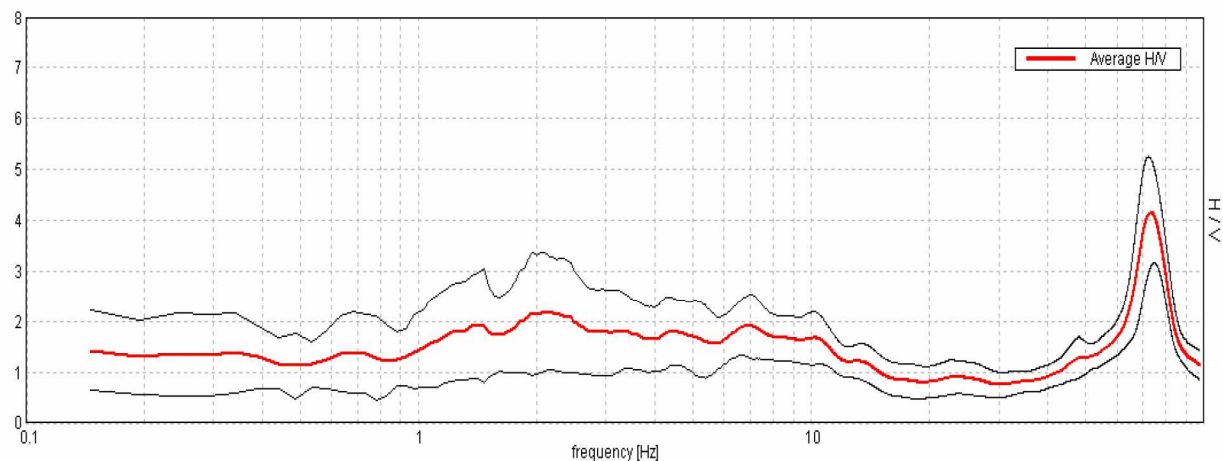
QUOTA: 230 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

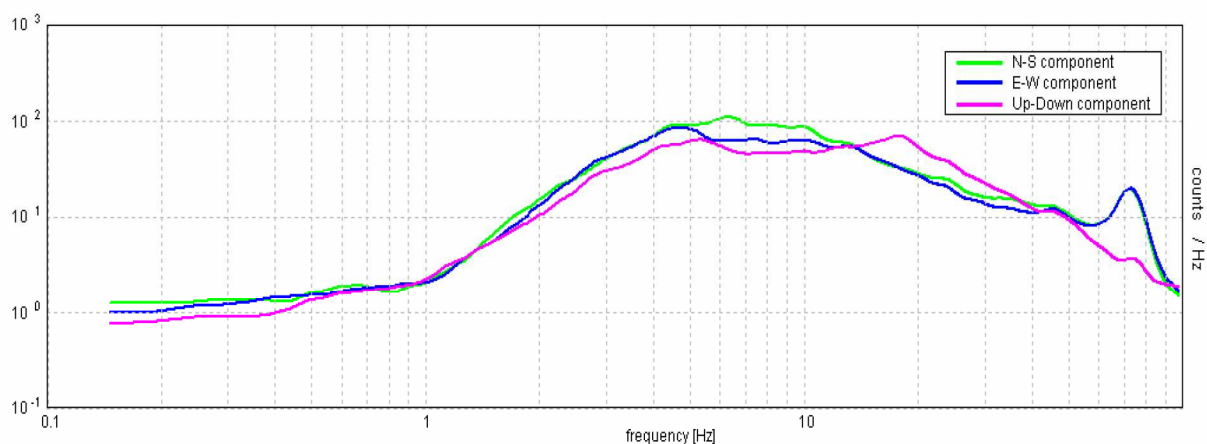
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

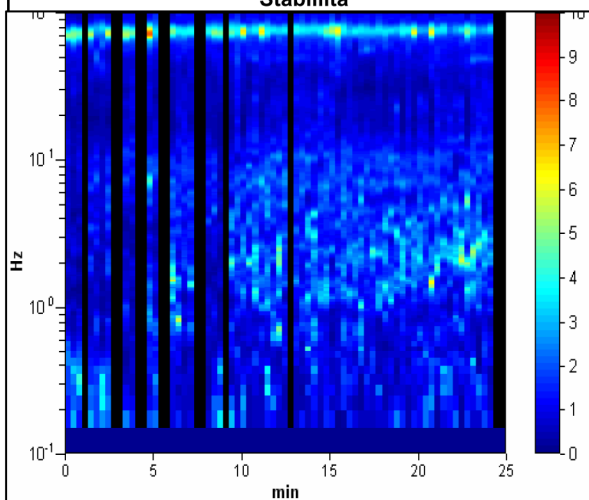
Picco HV a 2.1 ± 3.3 Hz (nell'intervallo 0.0 - 18.0 Hz).



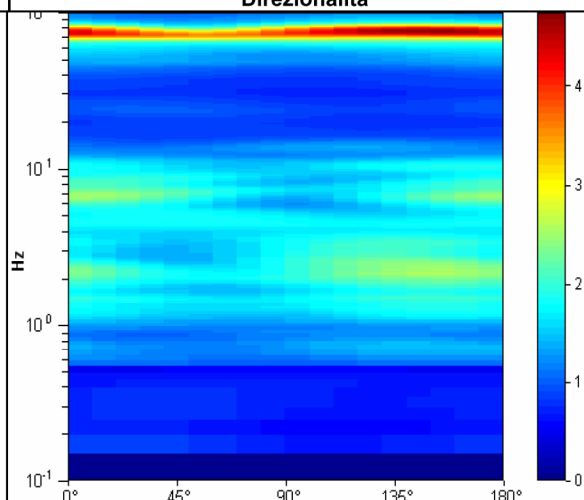
Ampiezza spettrale



Stabilità



Direzionalità

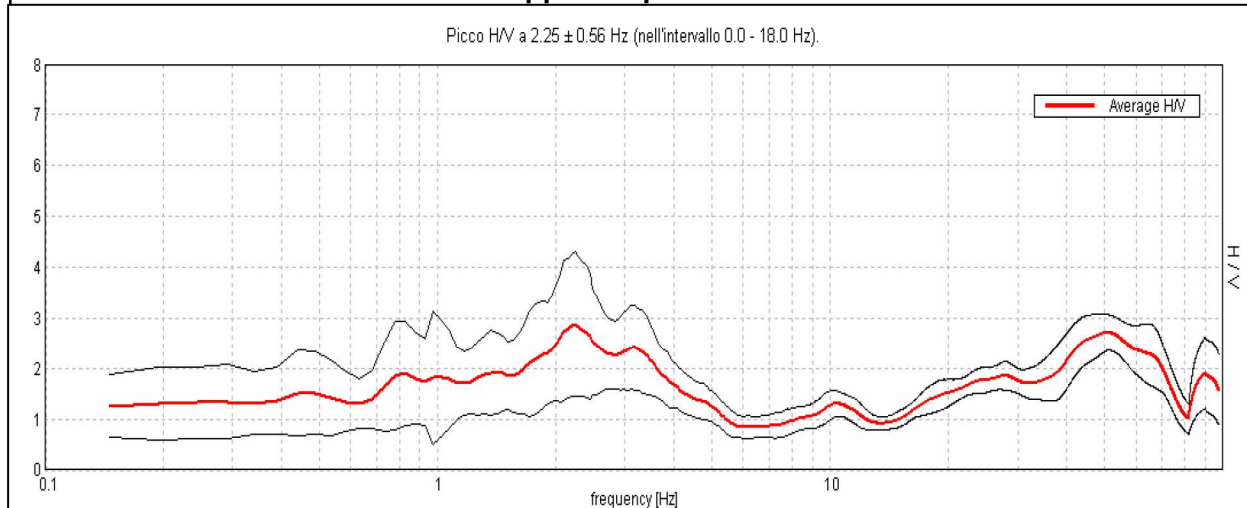


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H19
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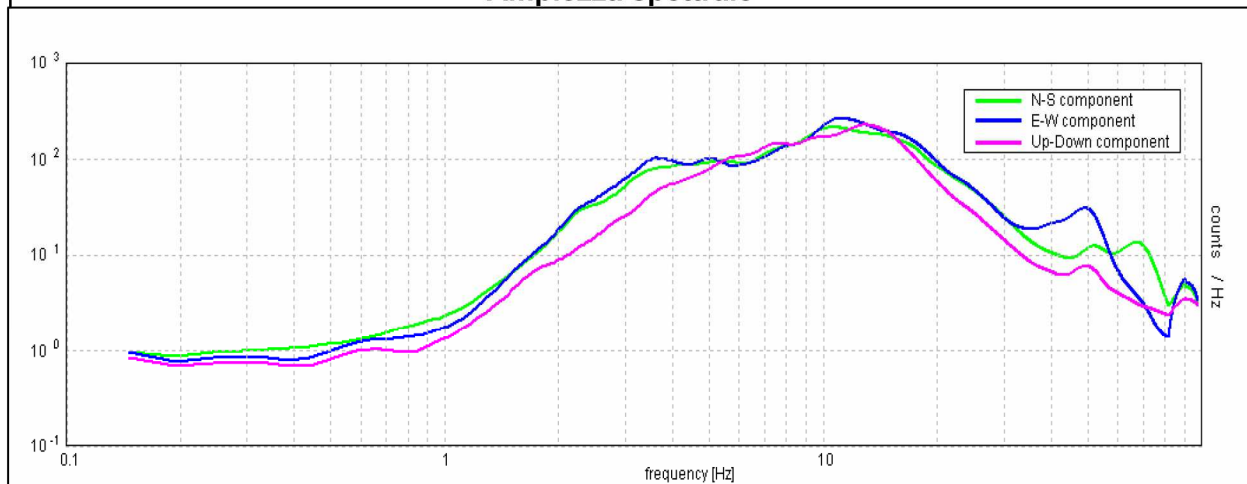
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Vergato
QUOTA: 200 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

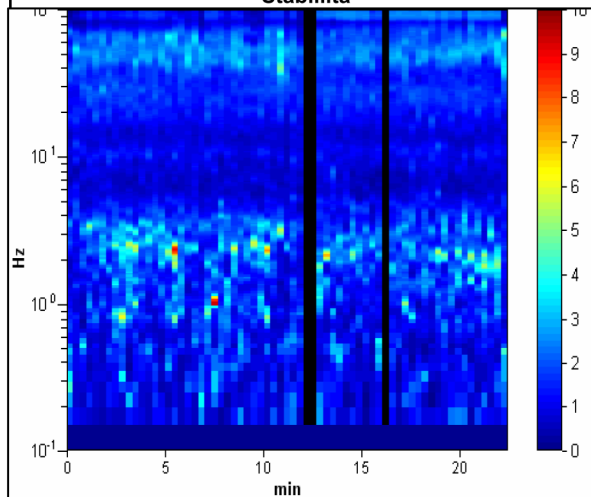
Rapporto spettrale



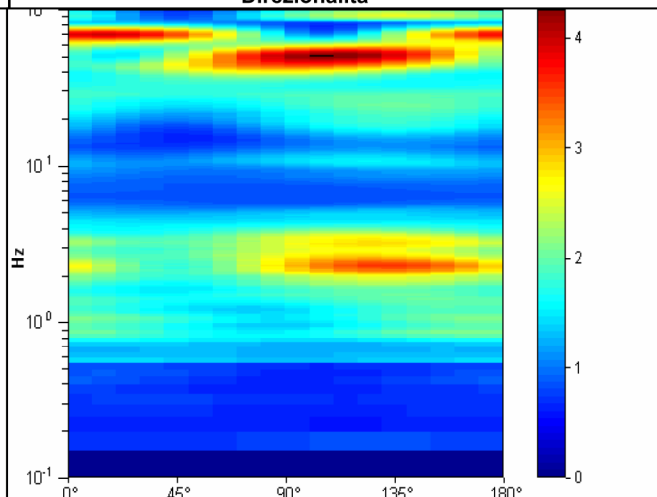
Ampiezza spettrale



Stabilità



Direzionalità

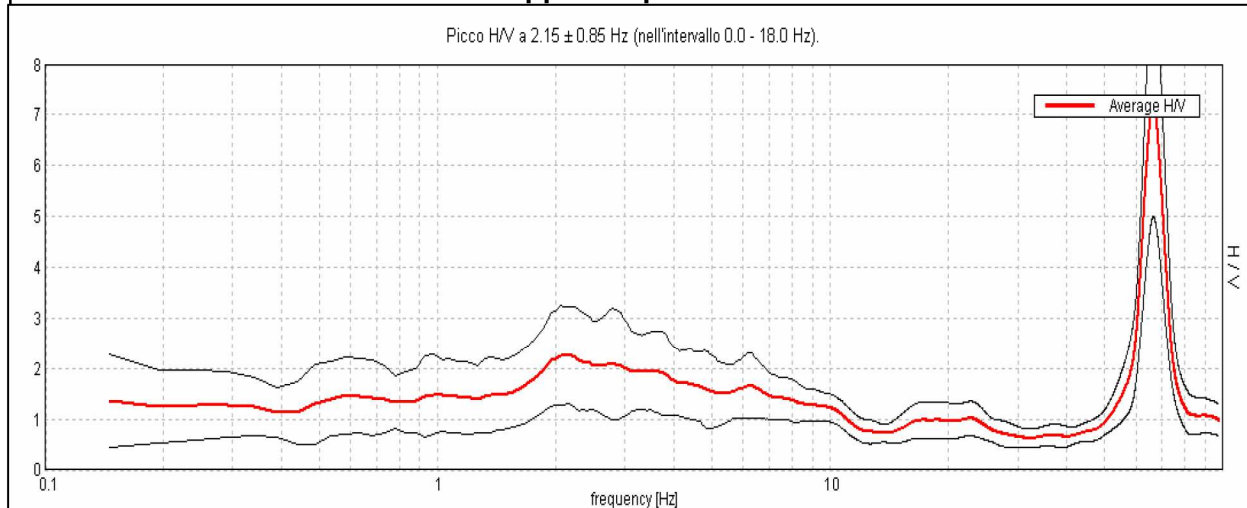


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H20
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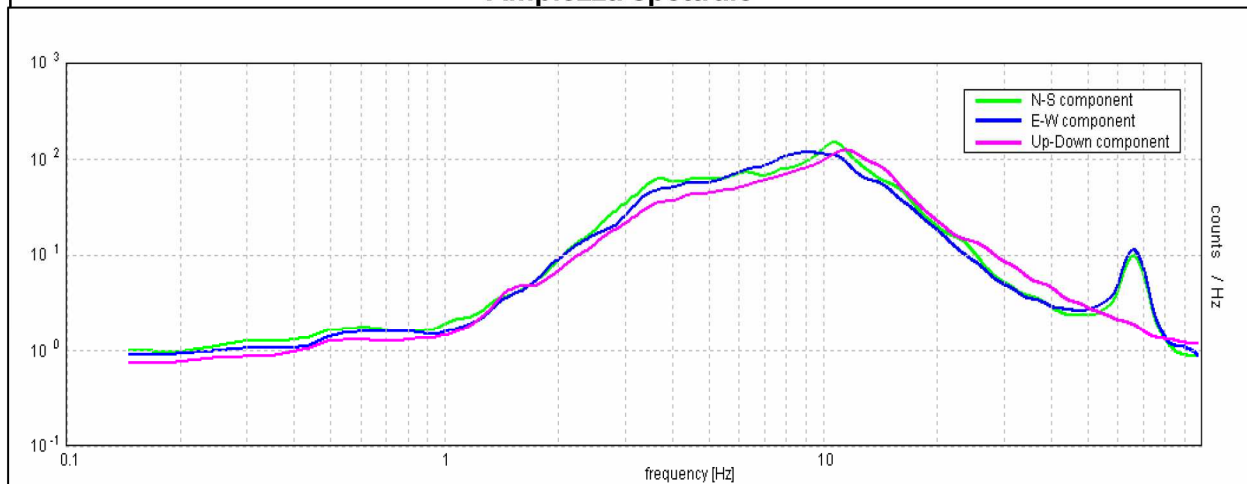
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Vergato
QUOTA: 200 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

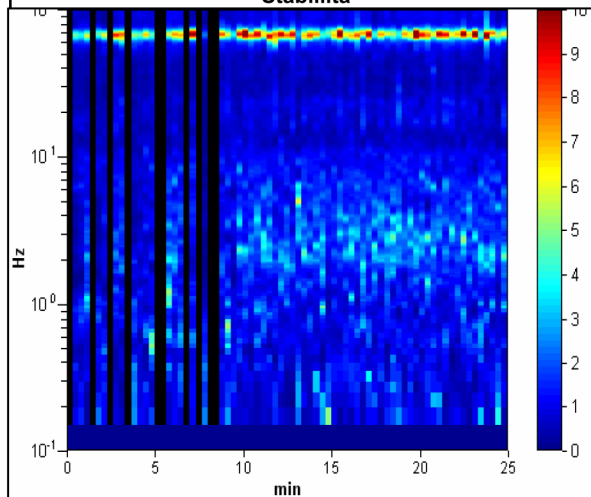
Rapporto spettrale



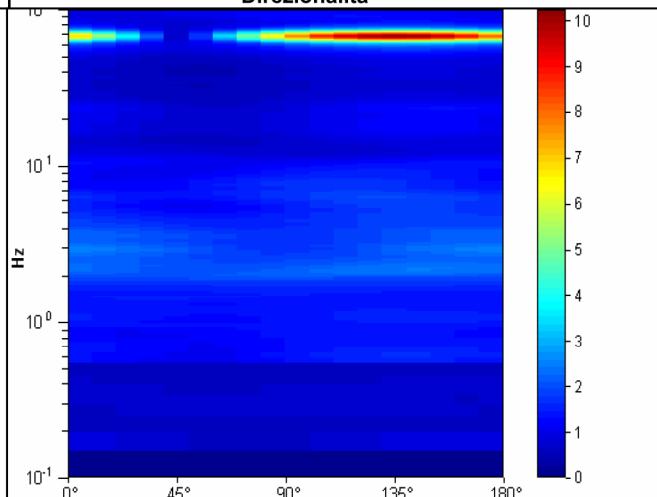
Ampiezza spettrale



Stabilità



Direzionalità

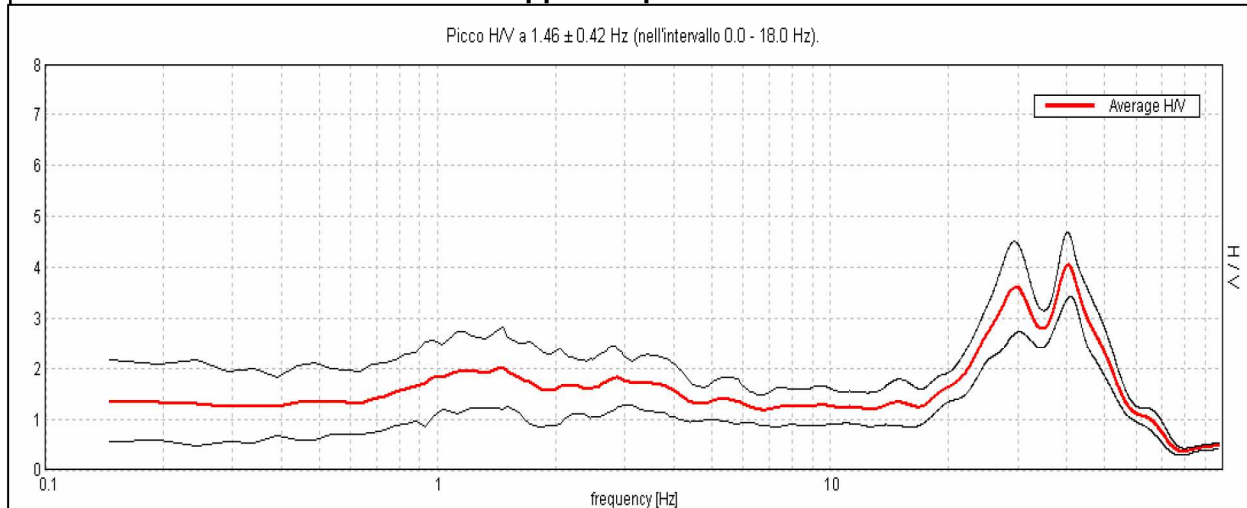


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H21
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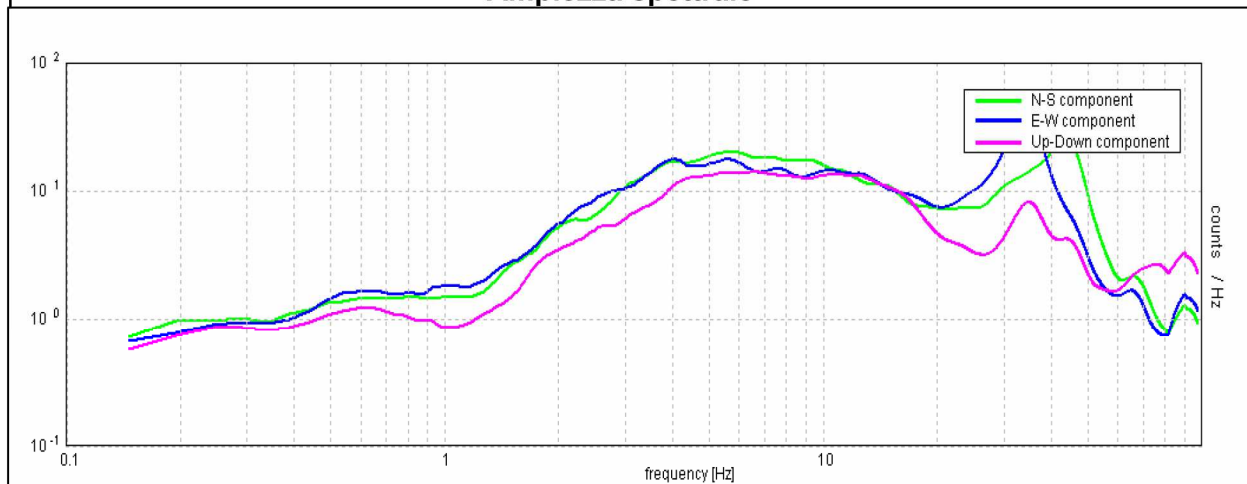
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Tolè
QUOTA: 660 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

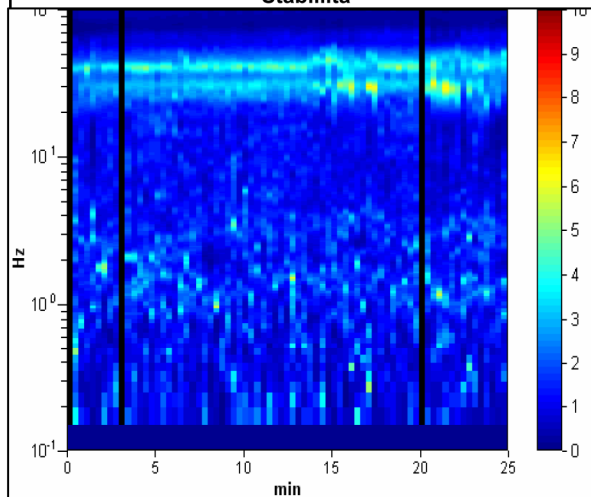
Rapporto spettrale



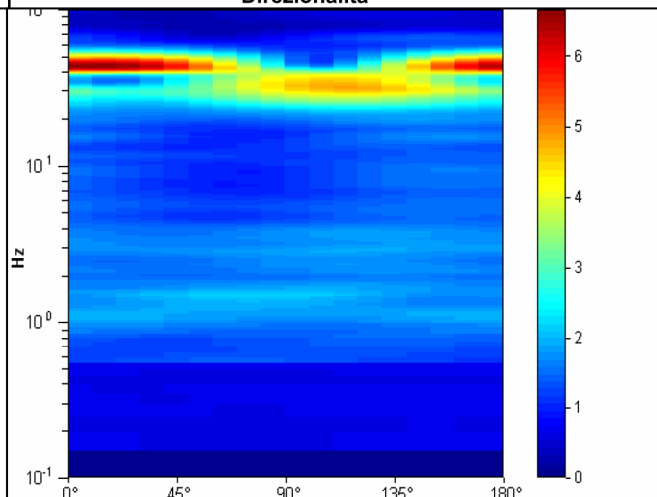
Ampiezza spettrale



Stabilità



Direzionalità

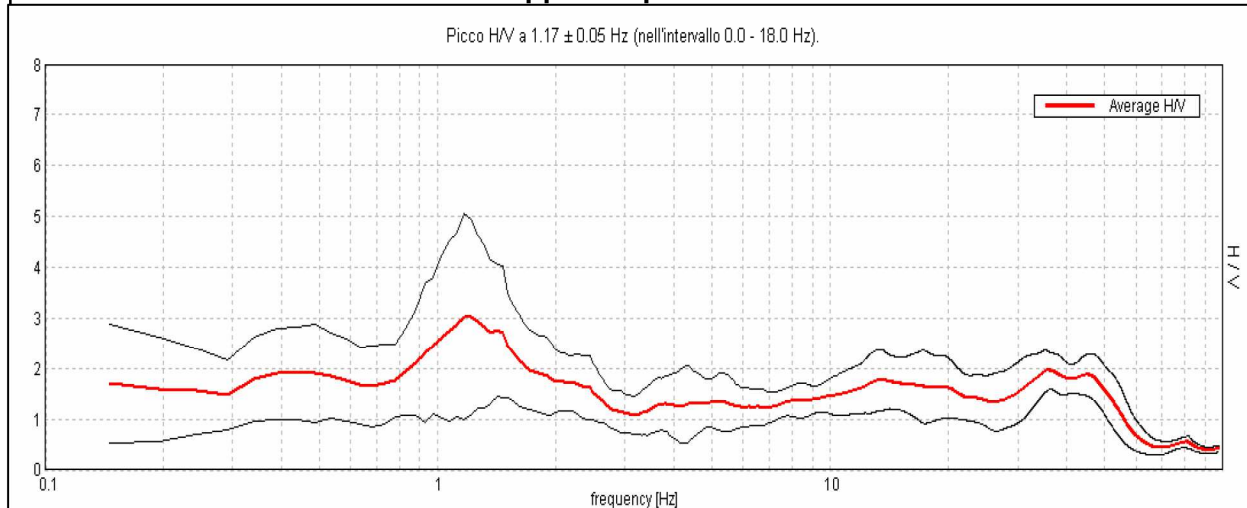


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H22
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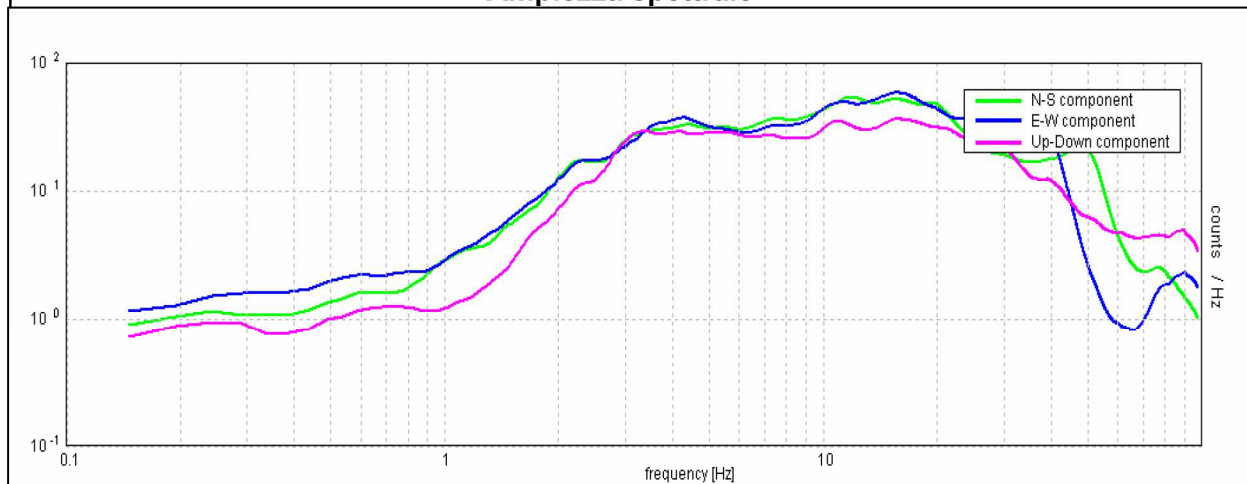
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Tolè
QUOTA: 670 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

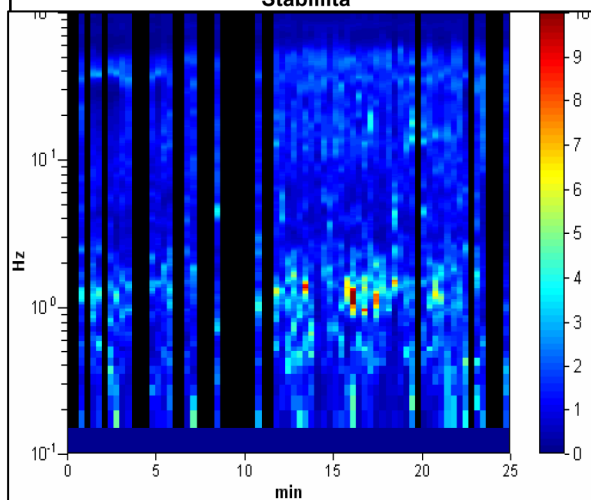
Rapporto spettrale



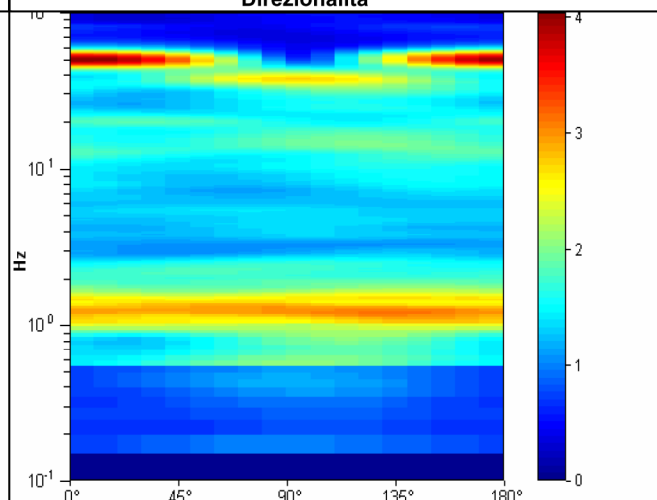
Ampiezza spettrale



Stabilità



Direzionalità

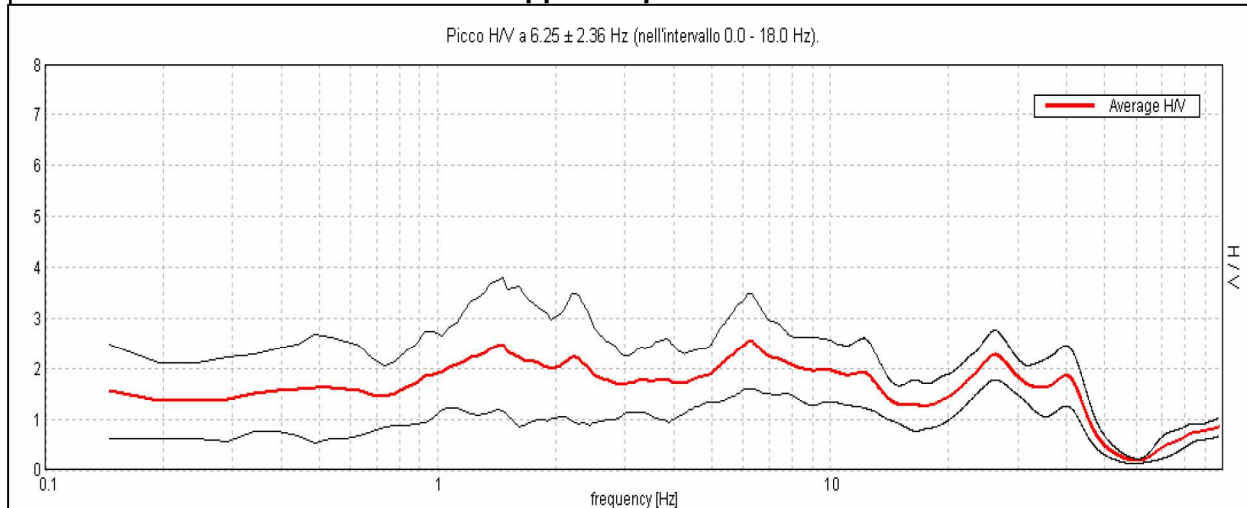


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H23
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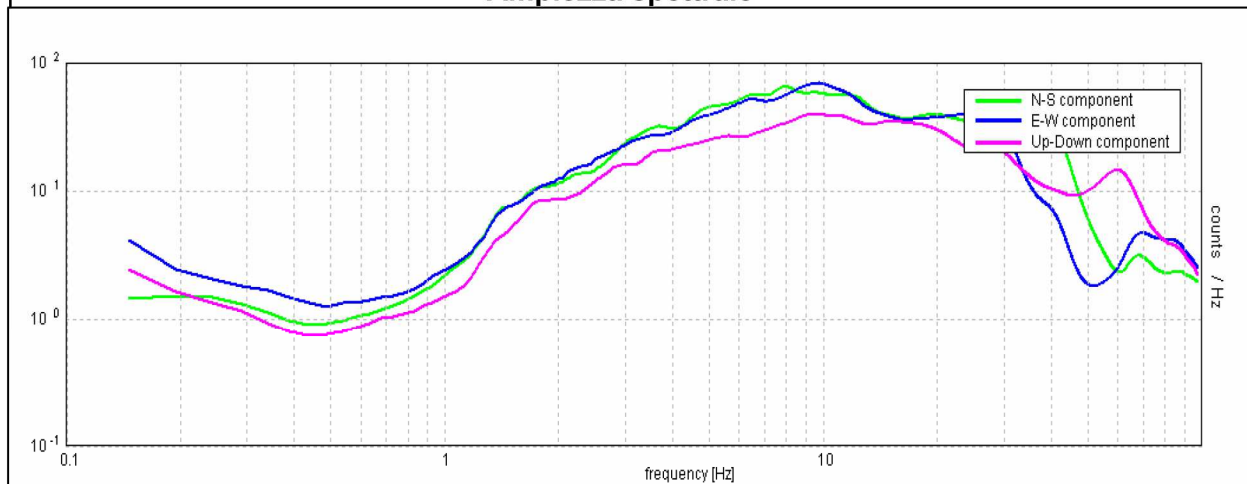
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Tolè
QUOTA: 670 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

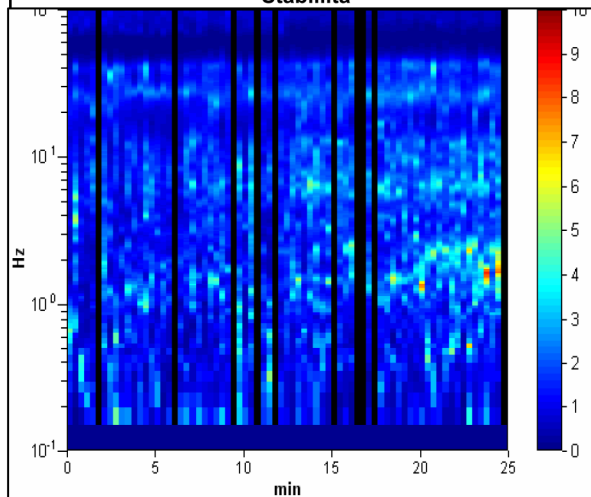
Rapporto spettrale



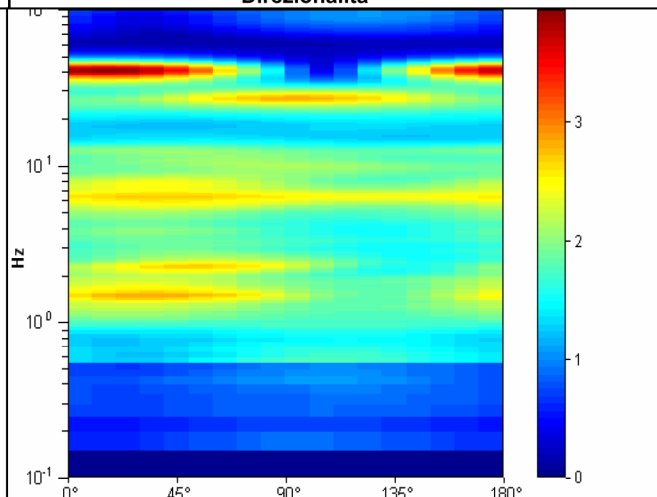
Ampiezza spettrale



Stabilità



Direzionalità

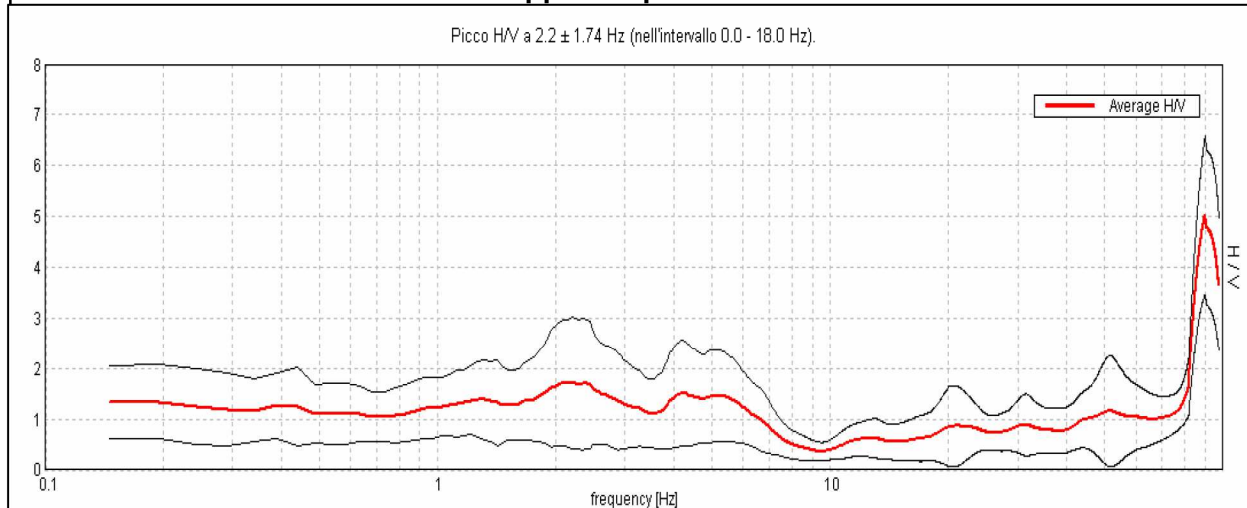


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H24
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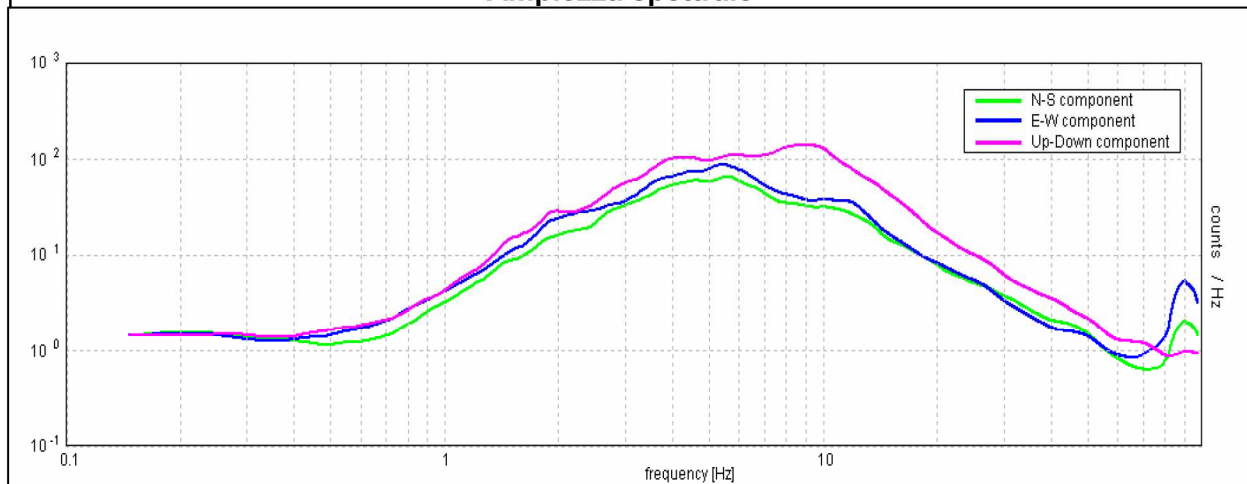
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Tolè
QUOTA: 660 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

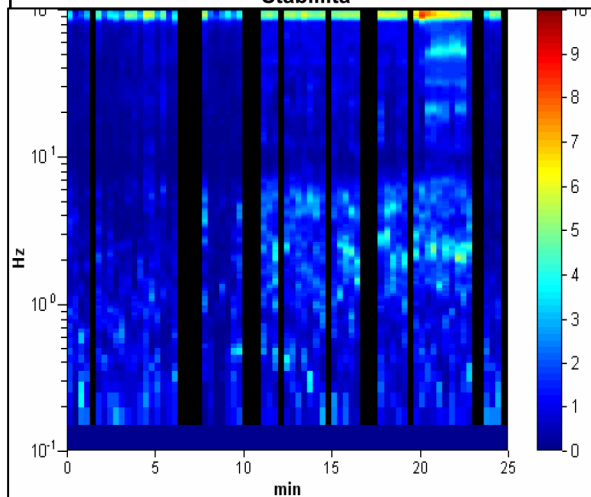
Rapporto spettrale



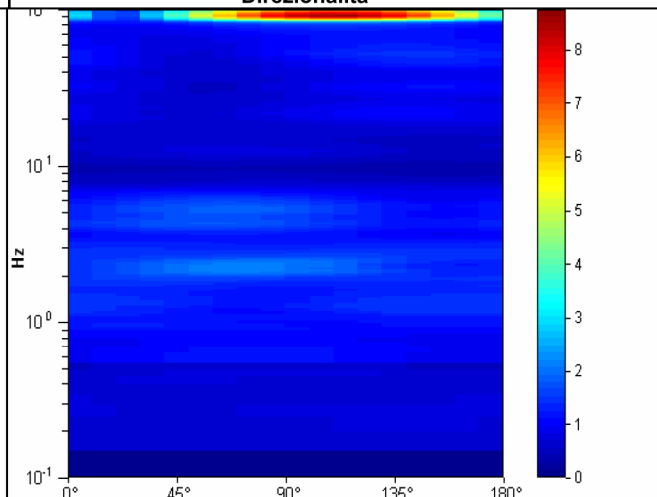
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H25

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 15-10-2013

CANTIERE: Tolè

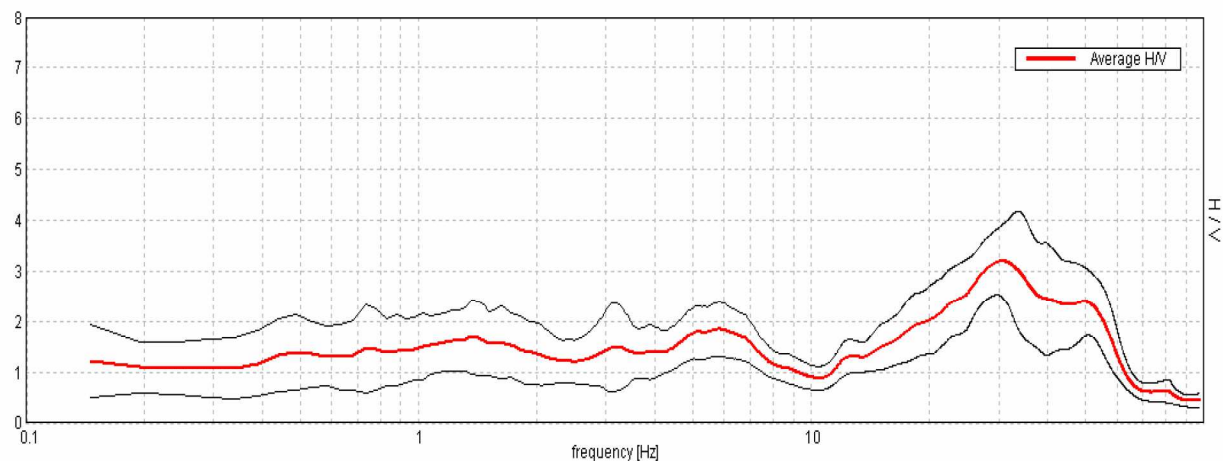
QUOTA: 660 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

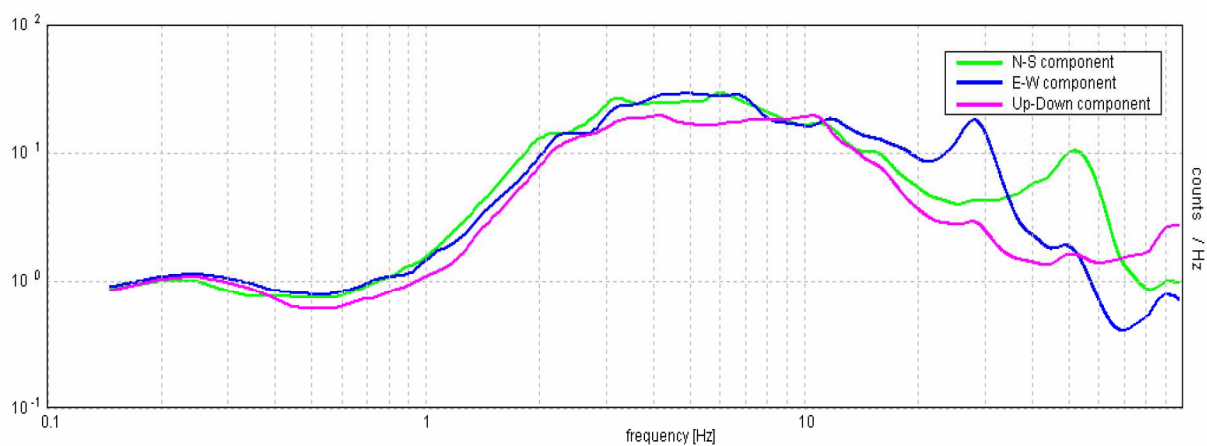
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

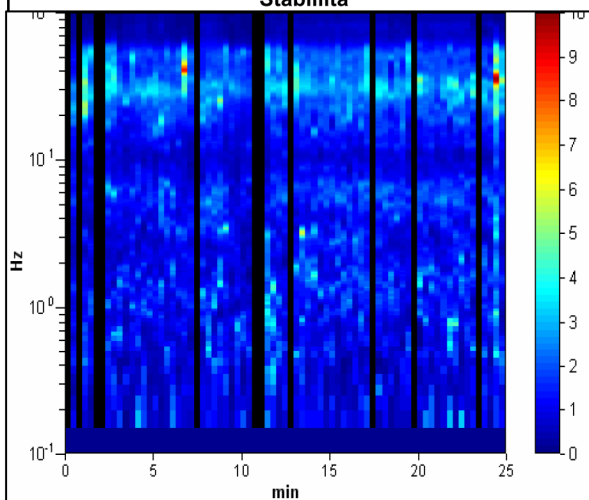
Picco HV a 17.97 ± 4.26 Hz (nell'intervallo 0.0 - 18.0 Hz).



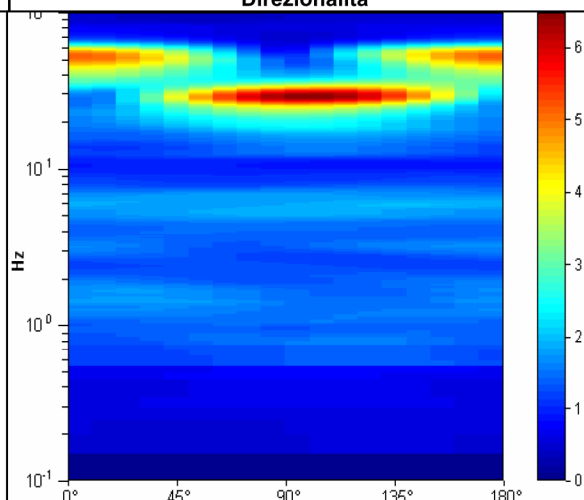
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H26

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 15-10-2013

CANTIERE: Tolè

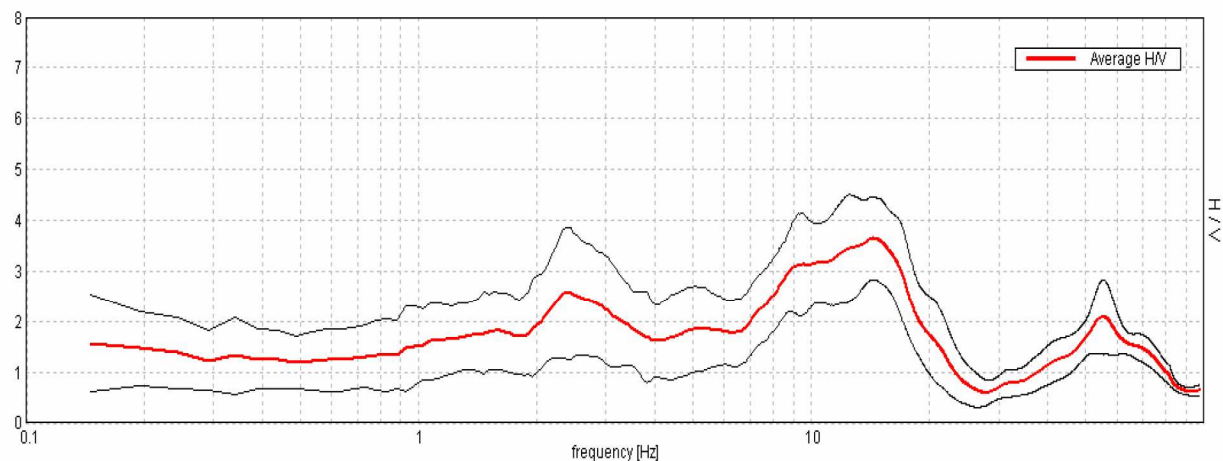
QUOTA: 680 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

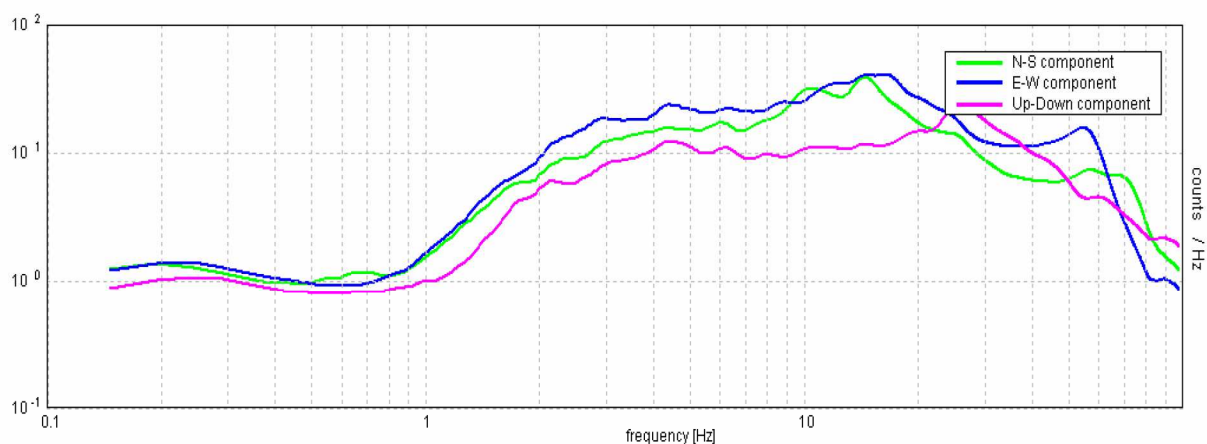
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

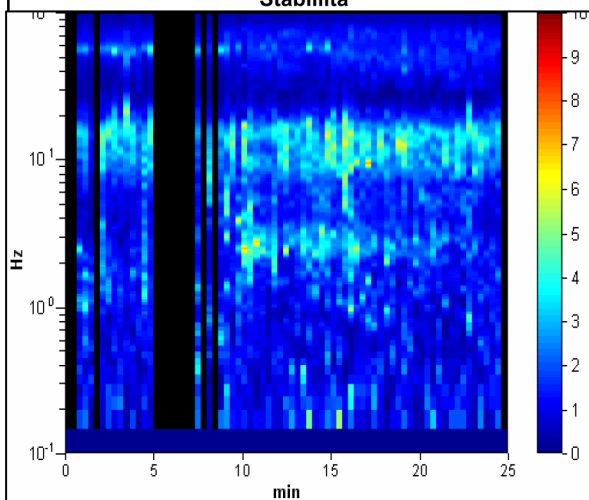
Max. H/V at 14.31 ± 2.83 Hz. (In the range 0.0 - 18.0 Hz).



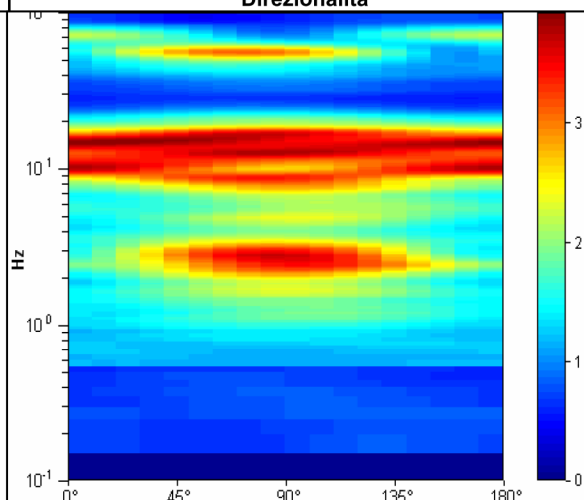
Ampiezza spettrale

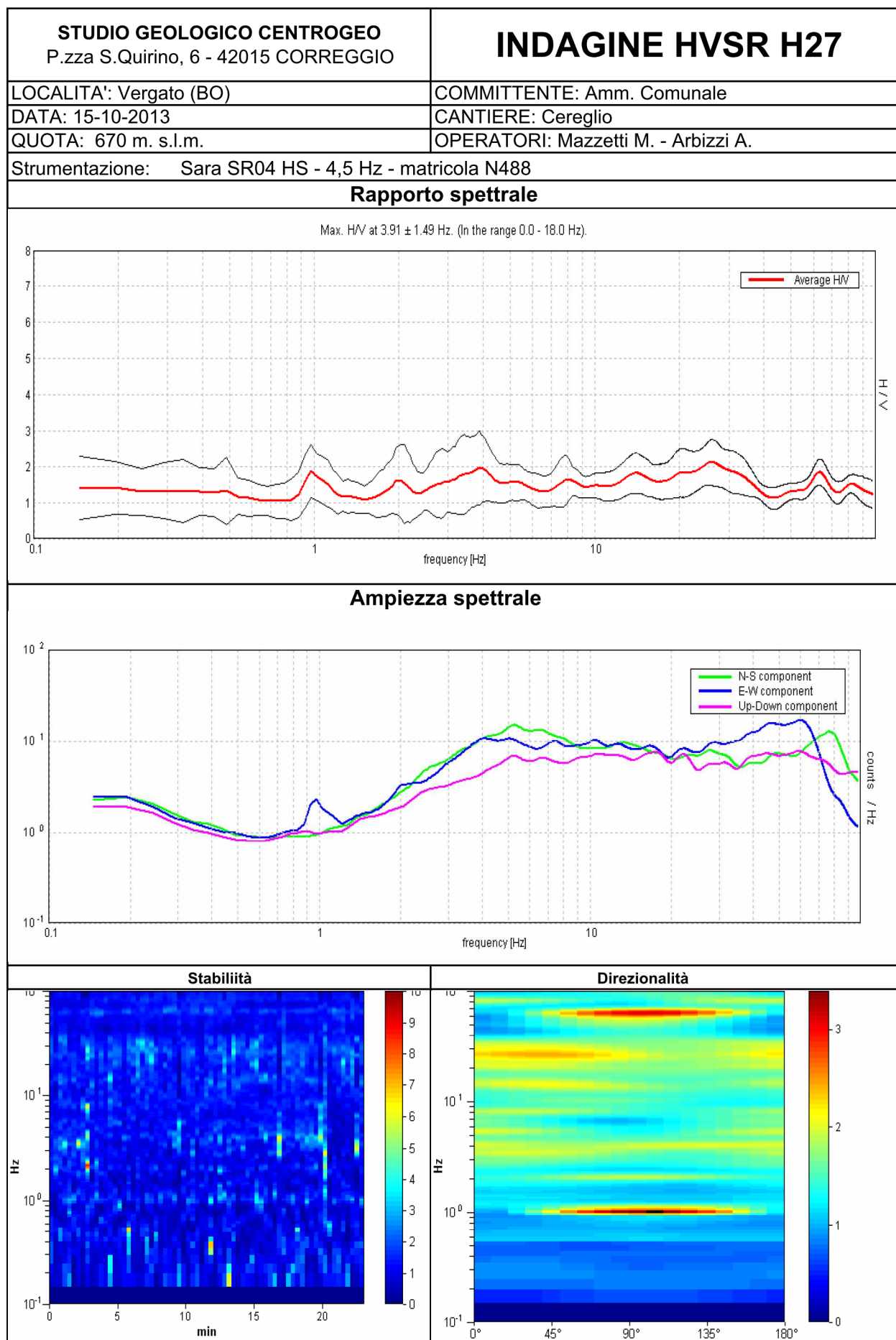


Stabilità



Direzionalità



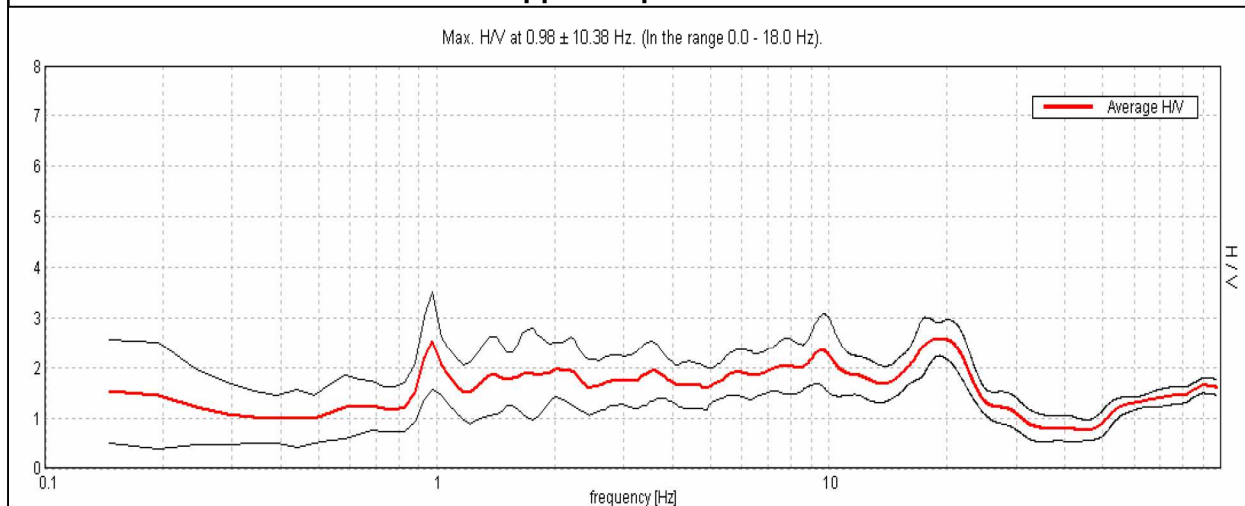


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H28
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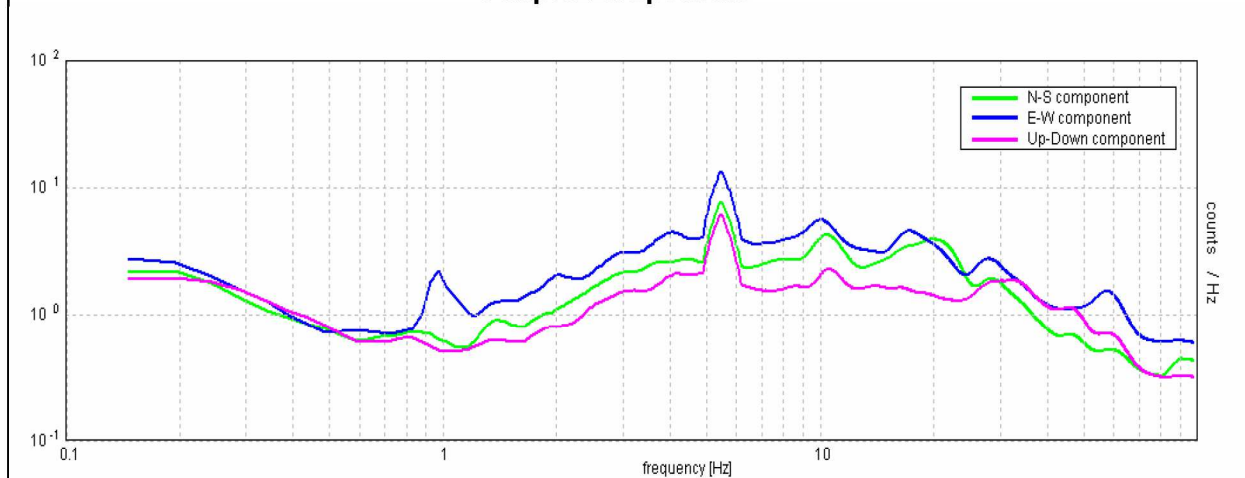
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 750 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

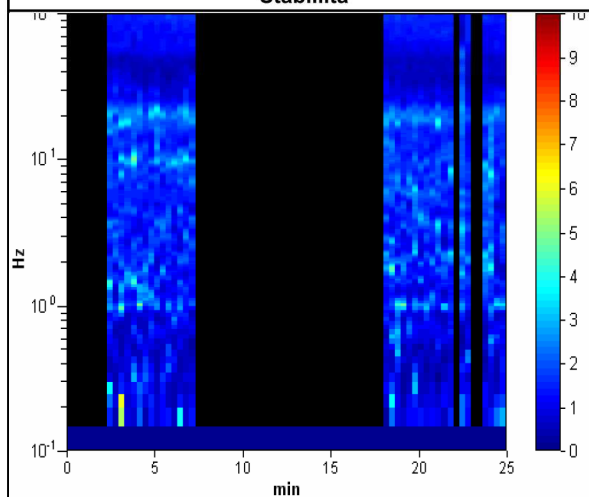
Rapporto spettrale



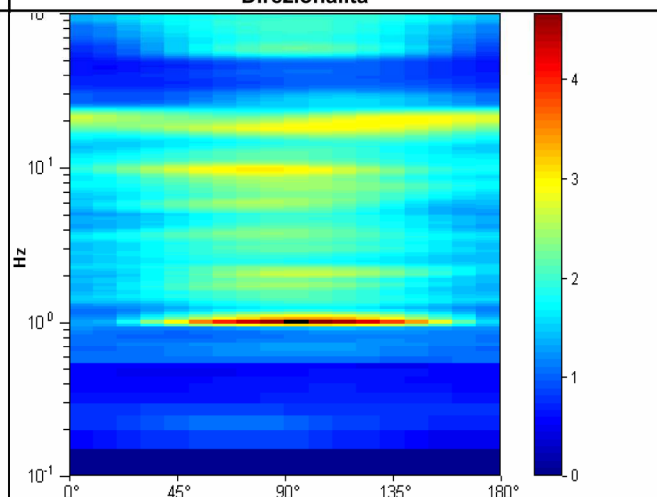
Ampiezza spettrale



Stabilità



Direzionalità

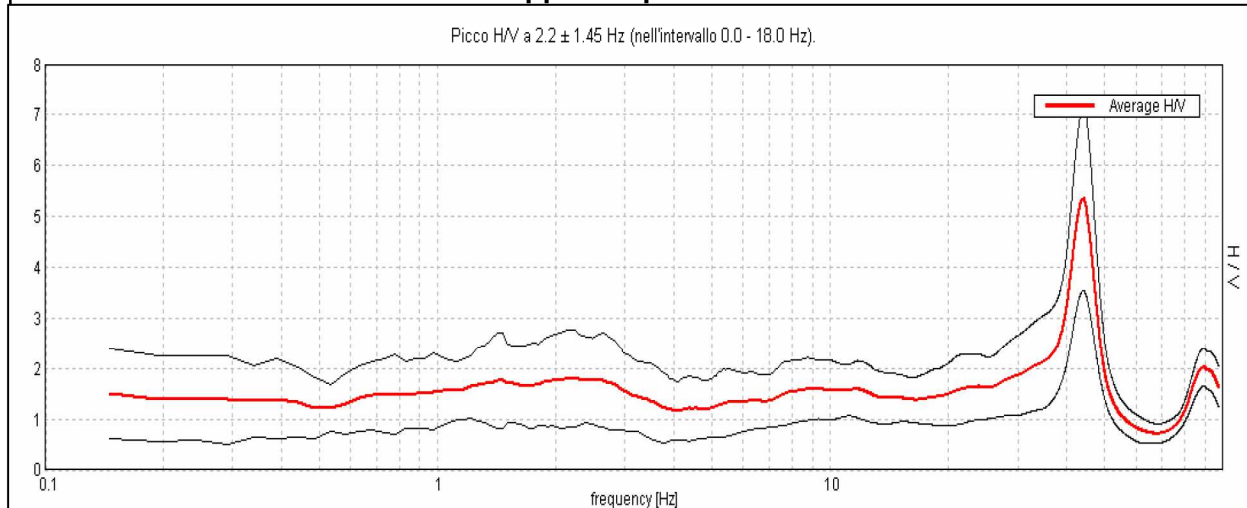


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H29
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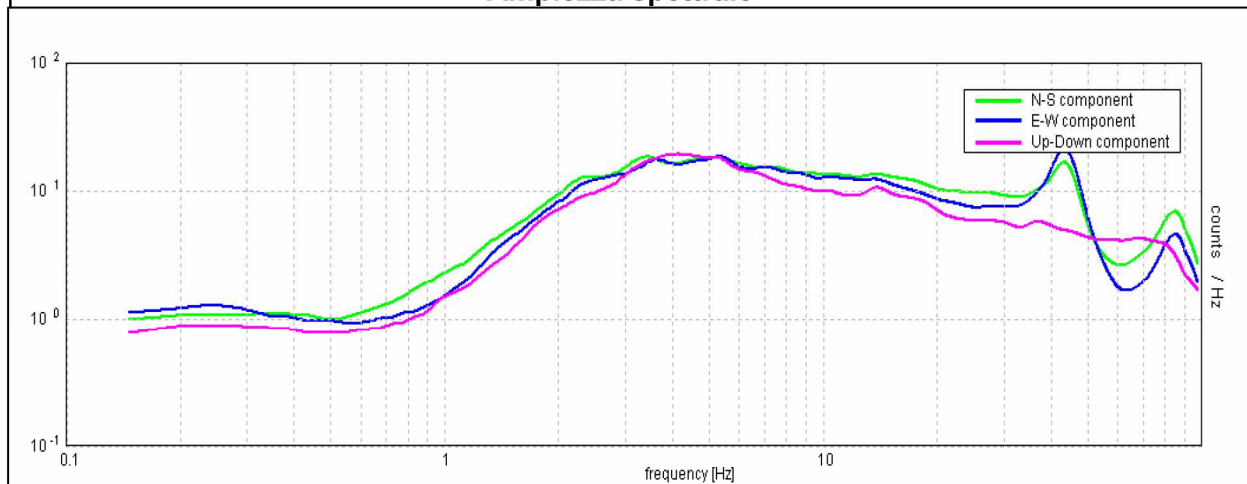
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 635 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

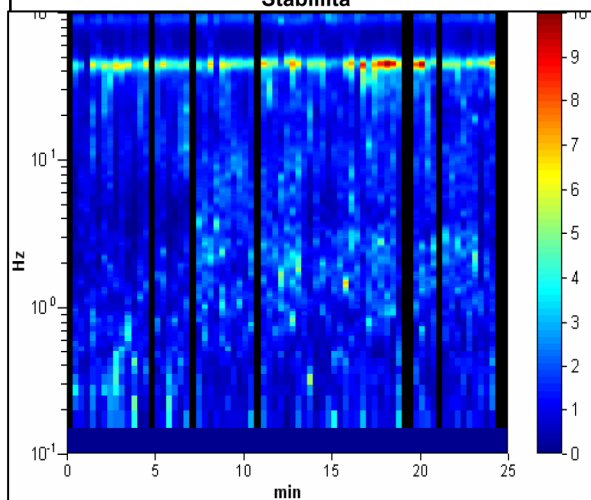
Rapporto spettrale



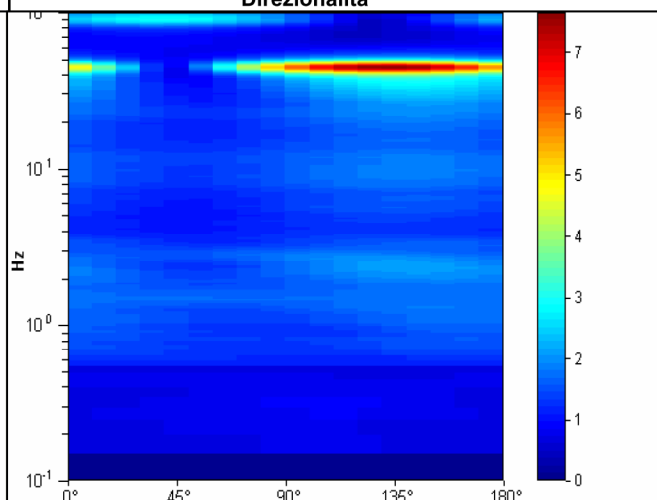
Ampiezza spettrale



Stabilità



Direzionalità

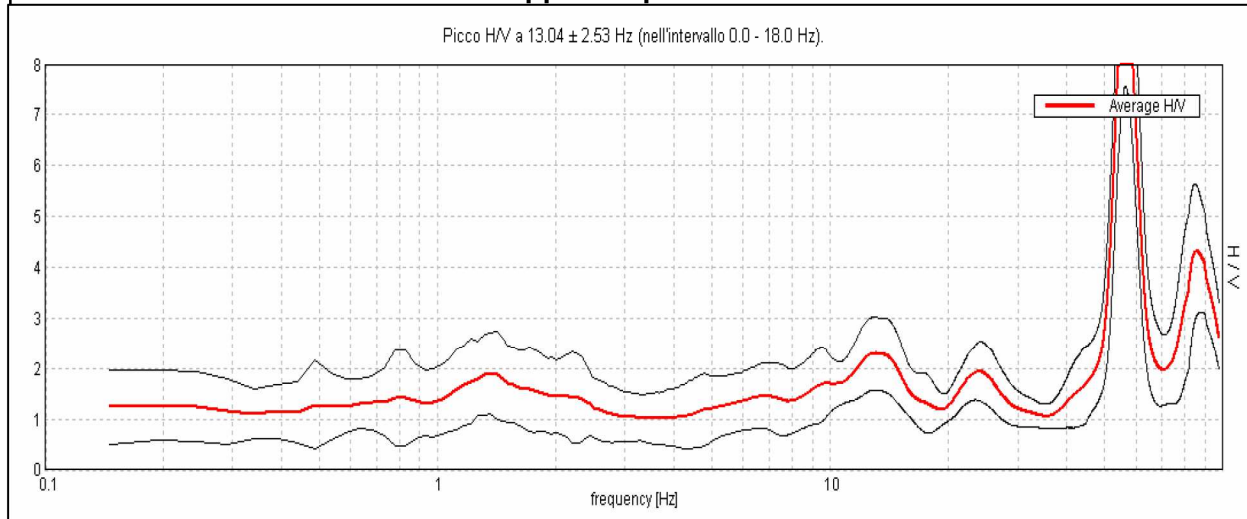


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H30
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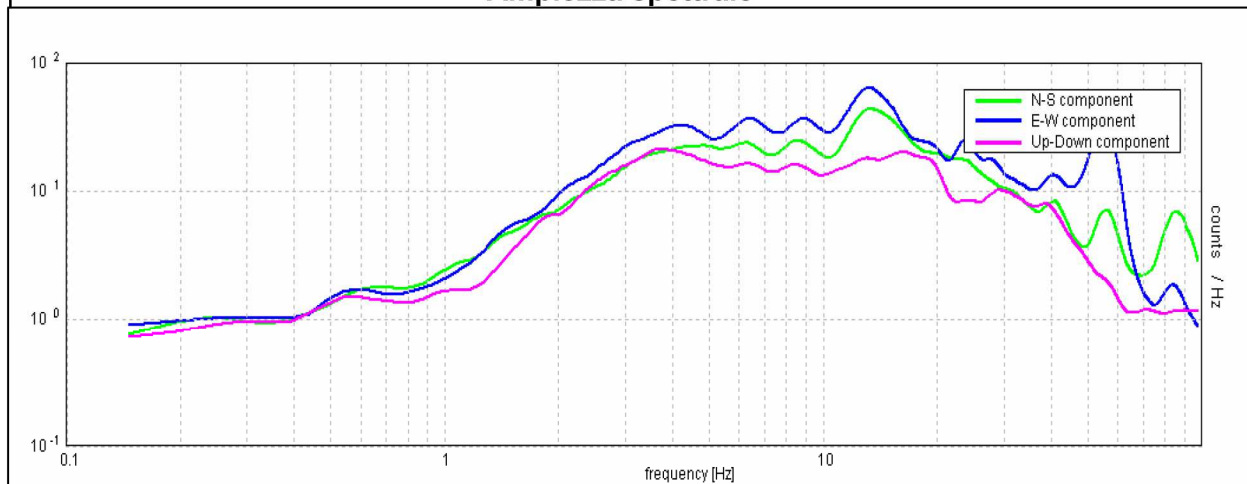
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Tolè
QUOTA: 660 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

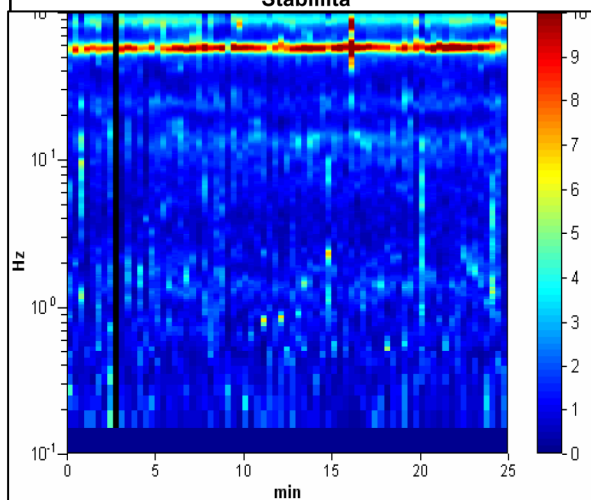
Rapporto spettrale



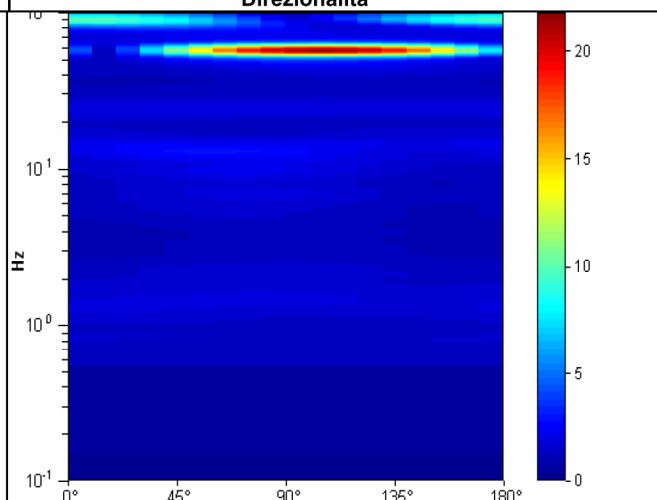
Ampiezza spettrale



Stabilità



Direzionalità

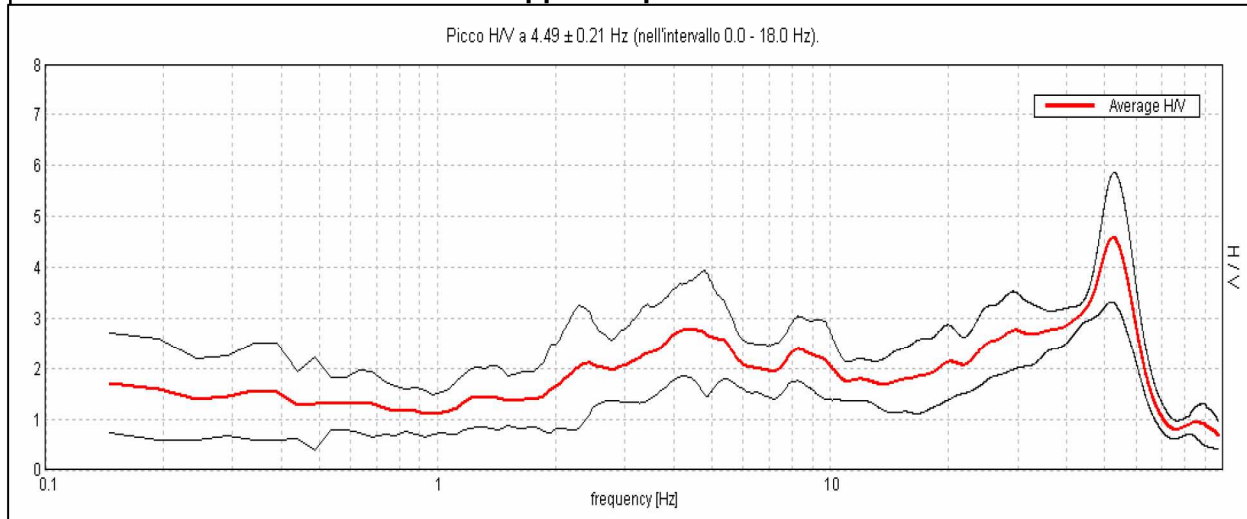


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H31
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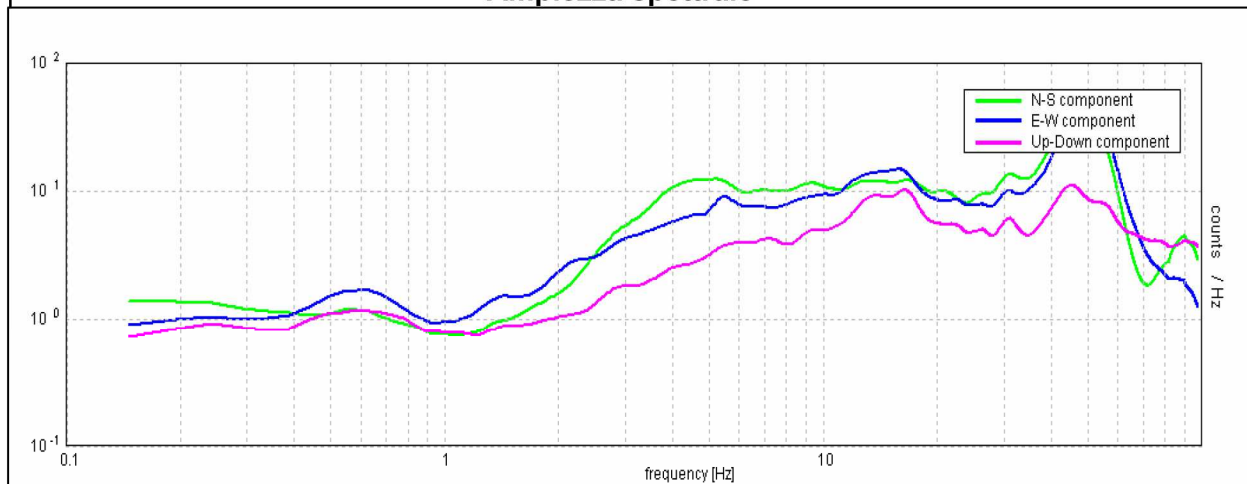
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Tolè
QUOTA: 720 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

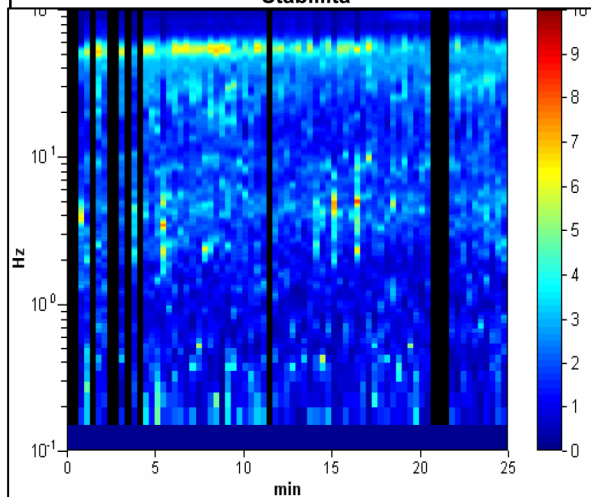
Rapporto spettrale



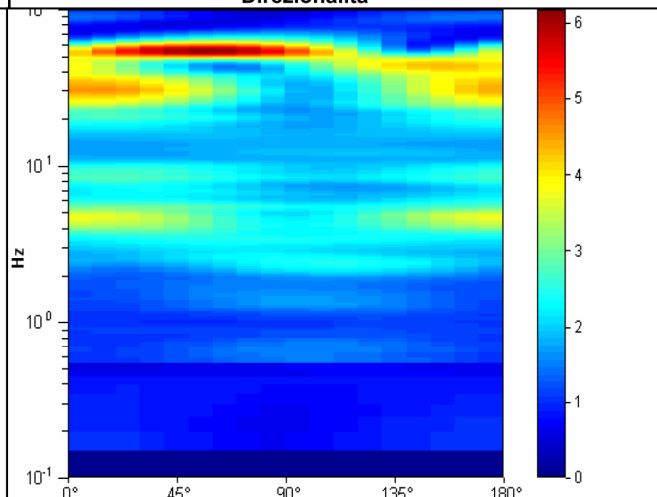
Ampiezza spettrale



Stabilità



Direzionalità

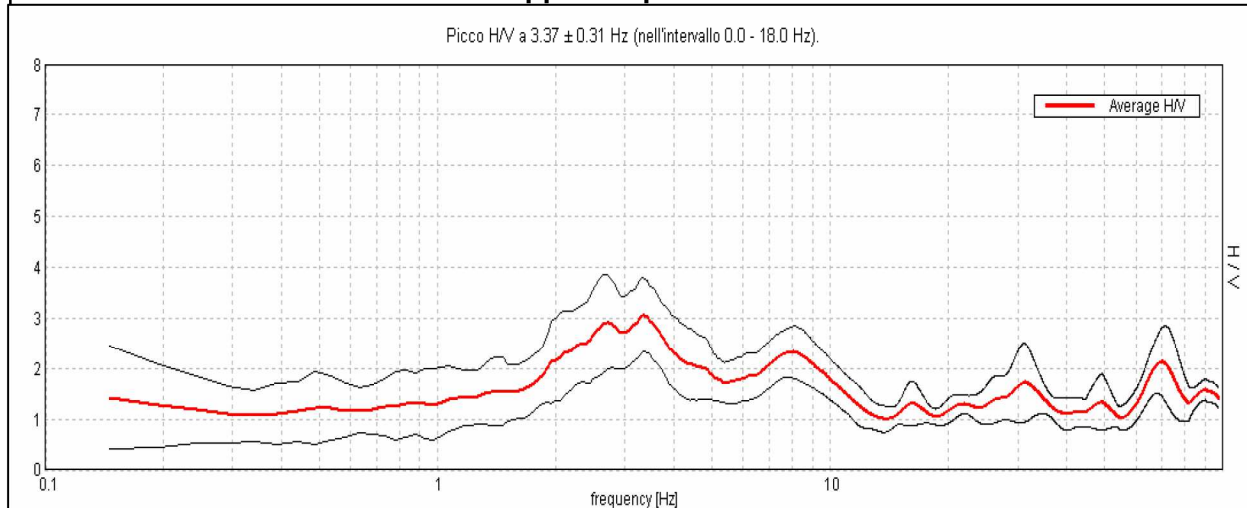


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H32
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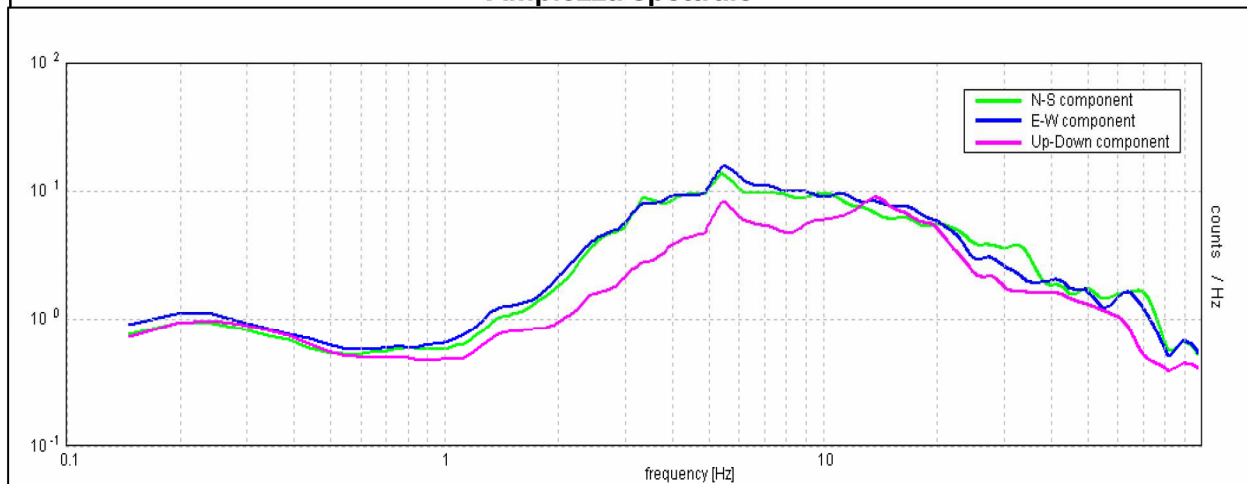
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 630 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

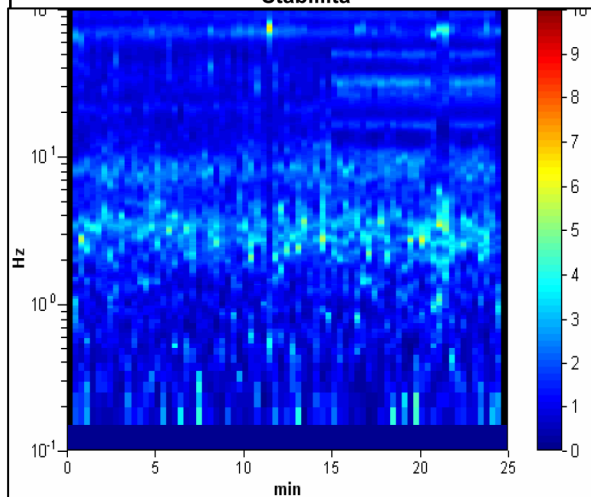
Rapporto spettrale



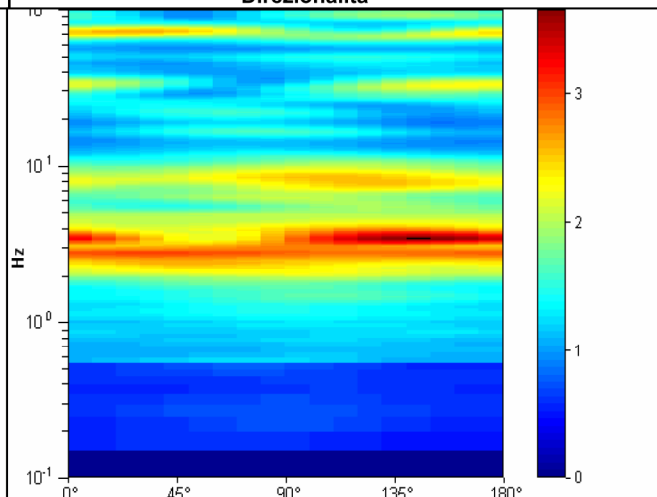
Ampiezza spettrale



Stabilità



Direzionalità

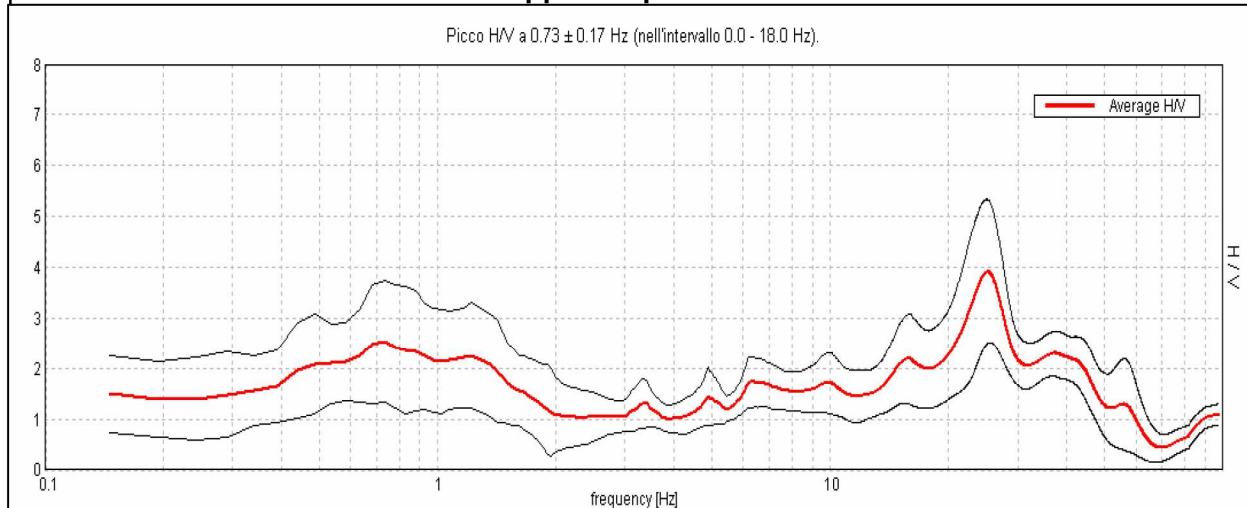


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H33
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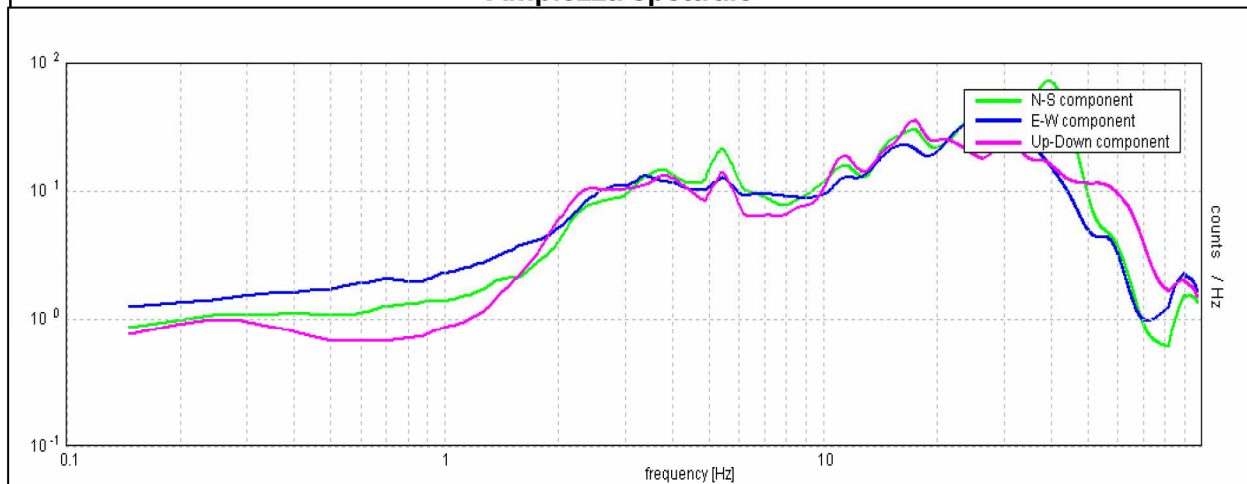
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 710 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

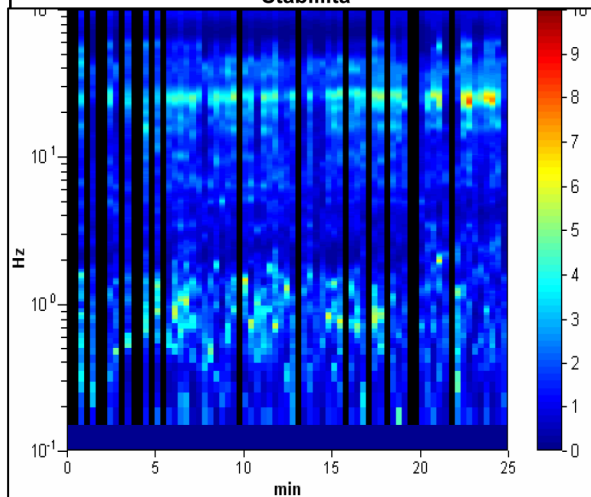
Rapporto spettrale



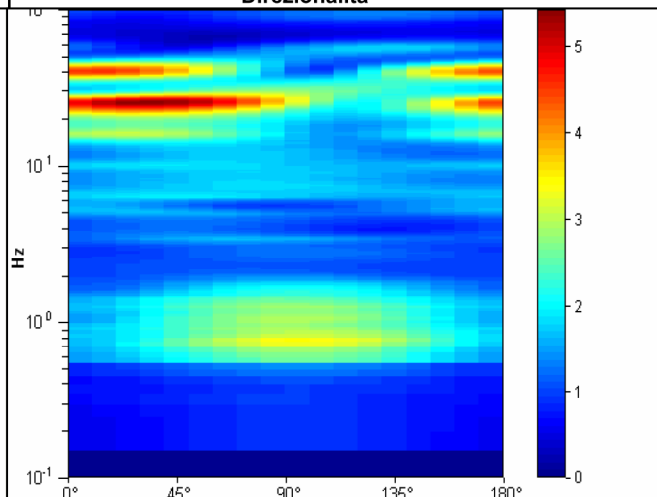
Ampiezza spettrale



Stabilità



Direzionalità

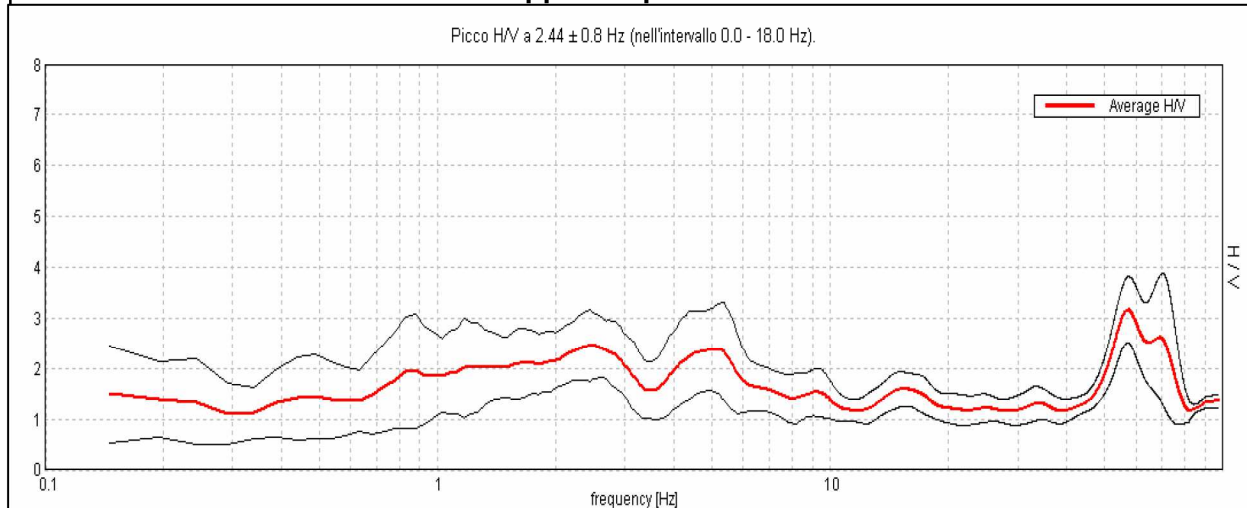


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H34
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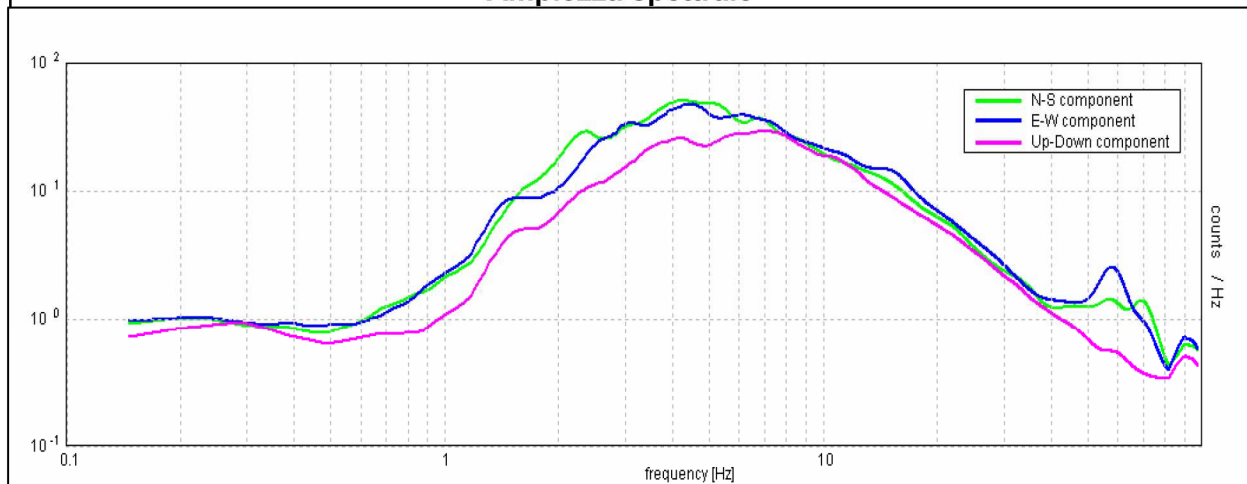
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 625 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

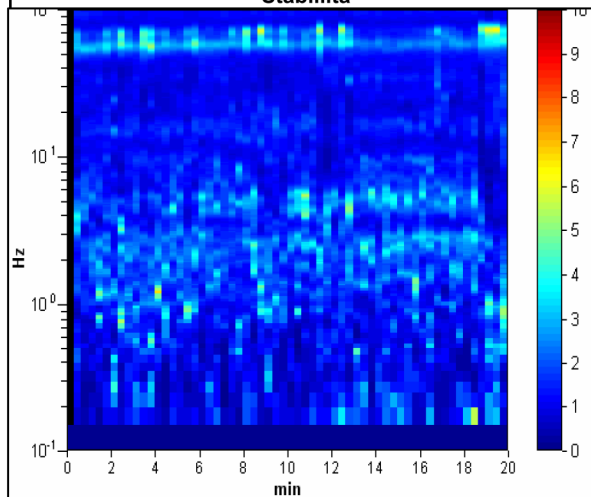
Rapporto spettrale



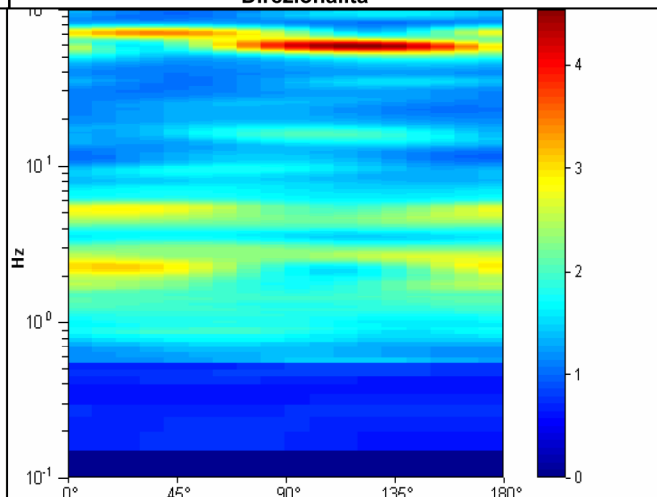
Ampiezza spettrale



Stabilità



Direzionalità

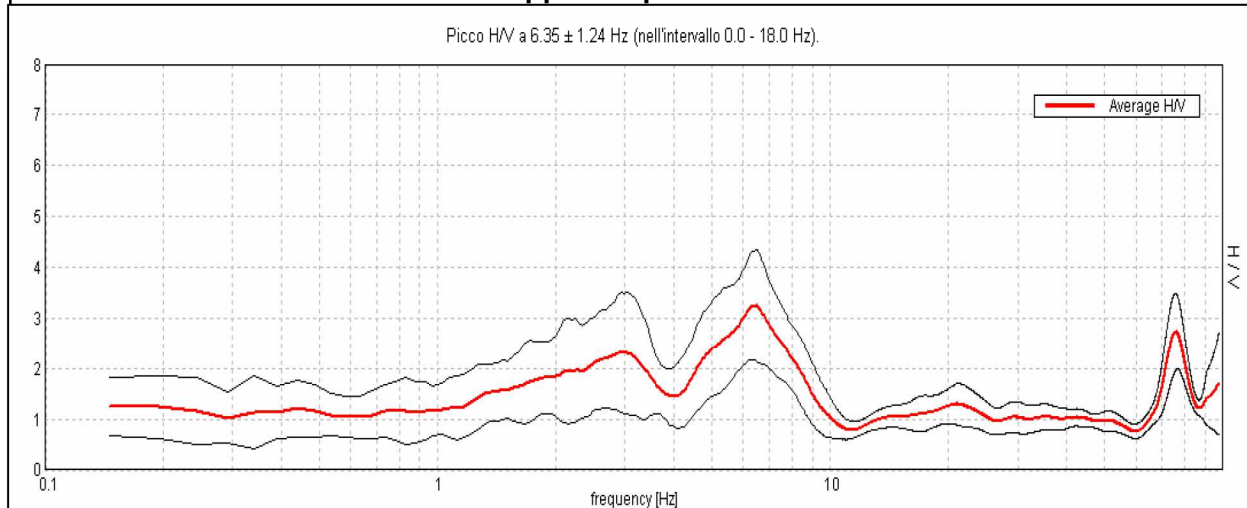


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H35
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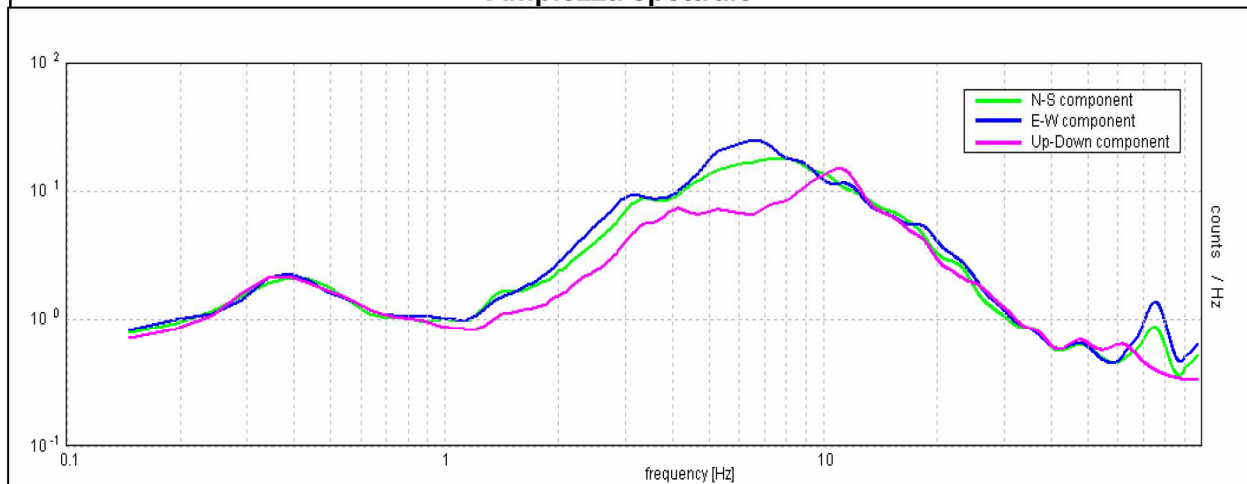
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Cereglio
QUOTA: 650 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

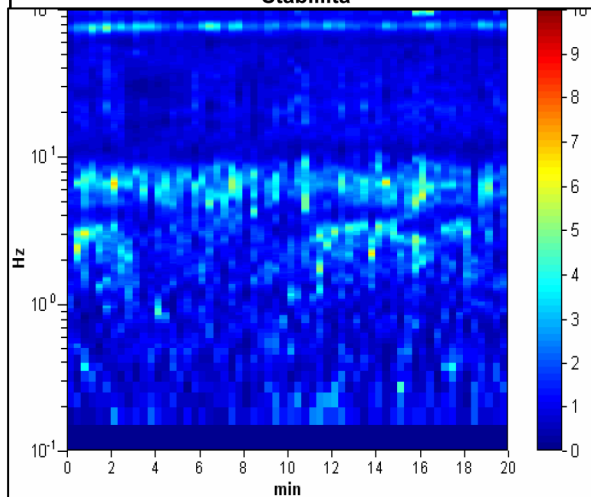
Rapporto spettrale



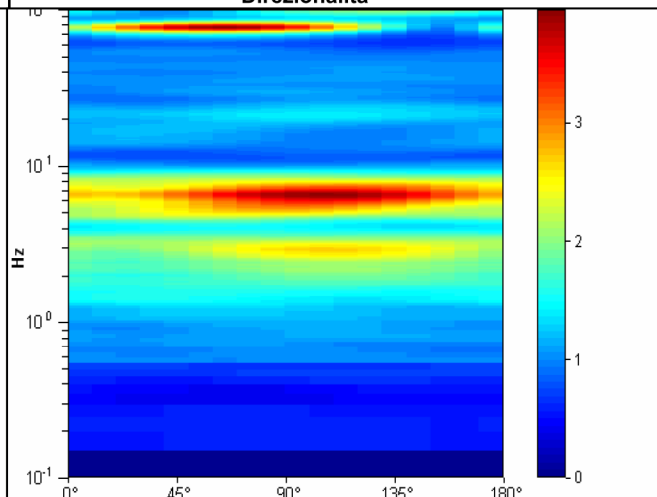
Ampiezza spettrale



Stabilità



Direzionalità

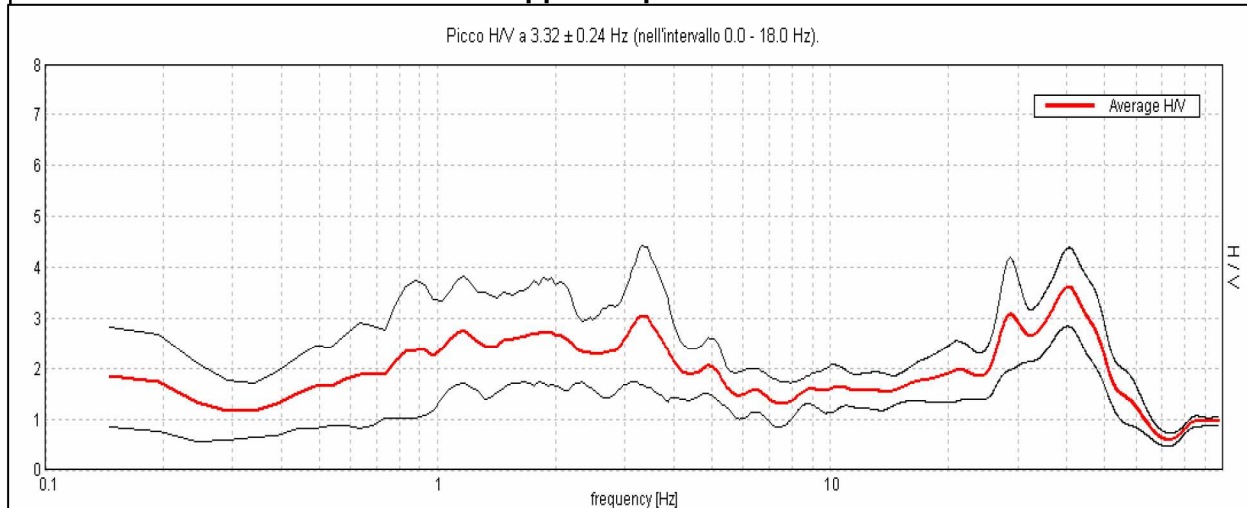


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H36
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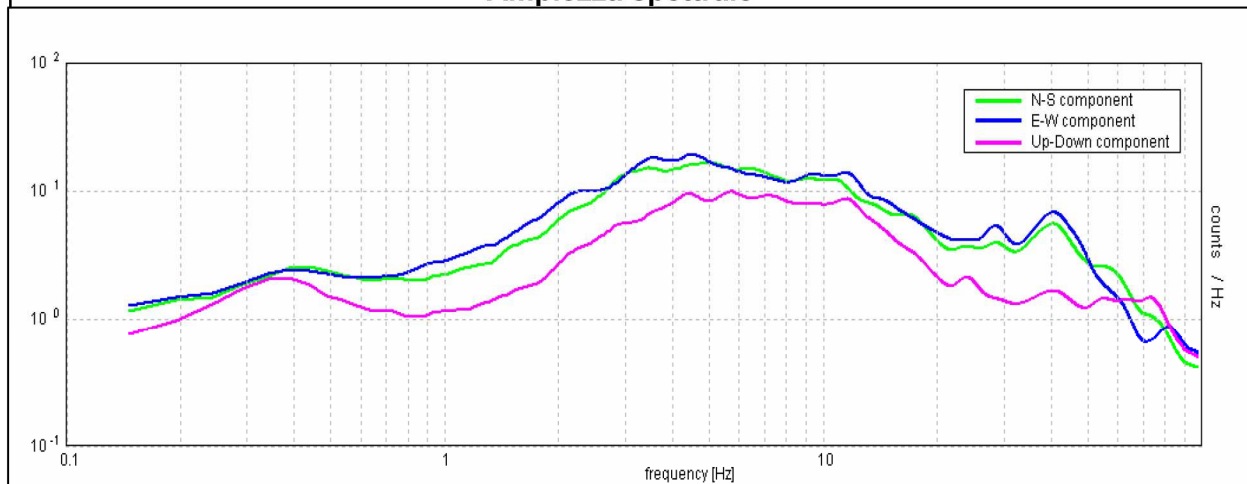
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Cereglio
QUOTA: 600 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

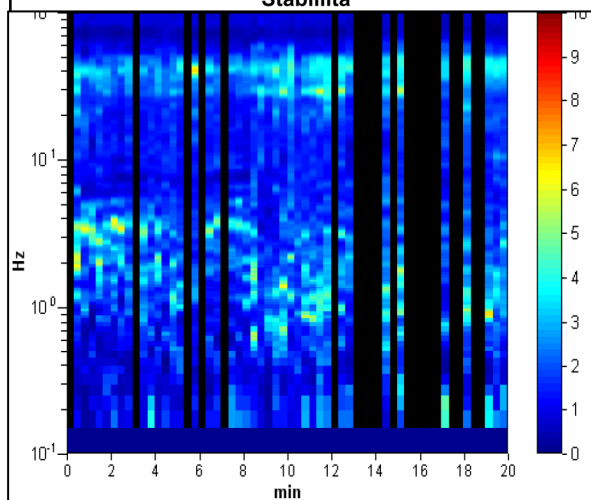
Rapporto spettrale



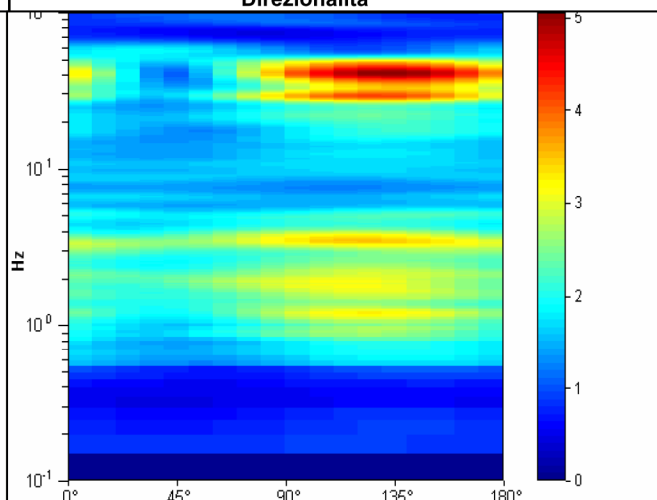
Ampiezza spettrale



Stabilità



Direzionalità

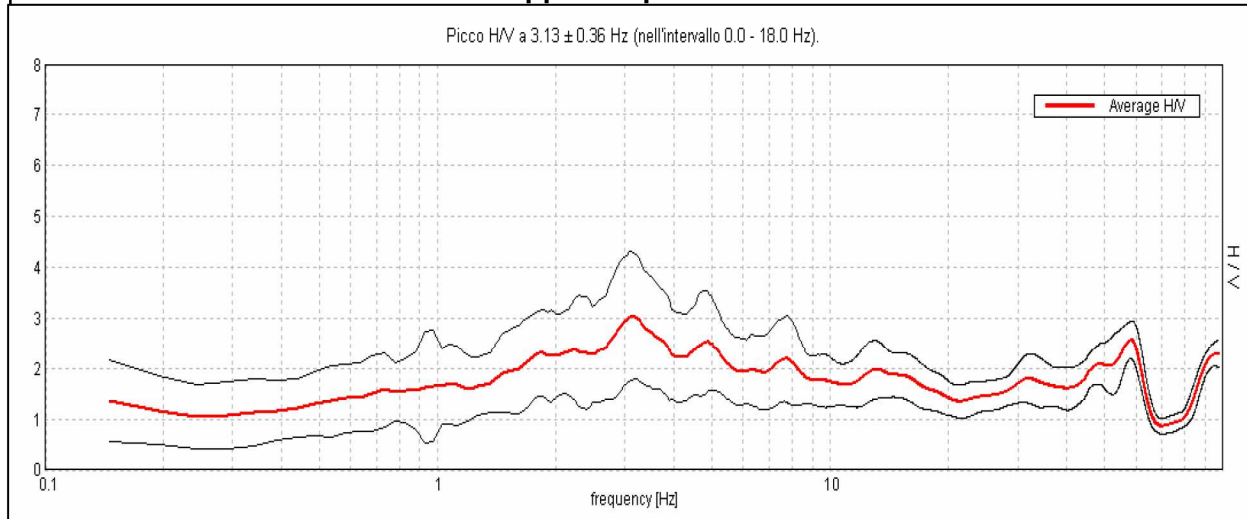


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H37
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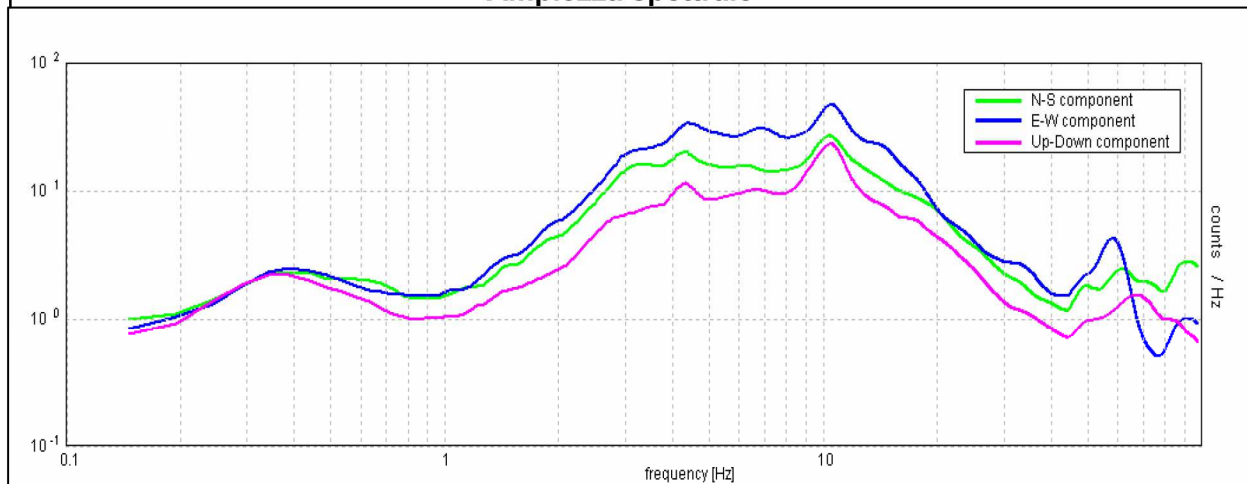
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Cereglio
QUOTA: 610 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

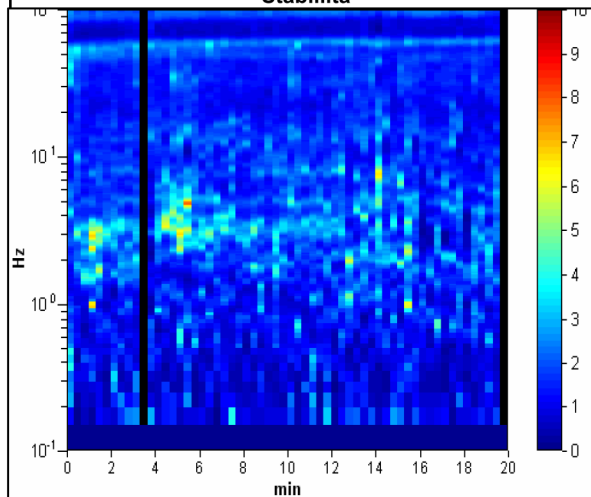
Rapporto spettrale



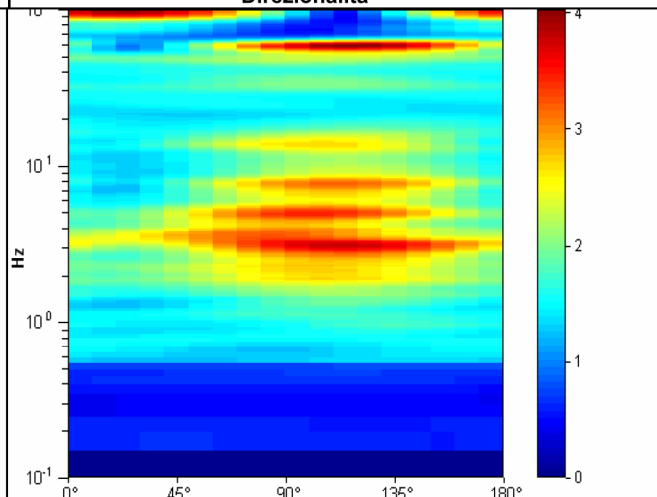
Ampiezza spettrale

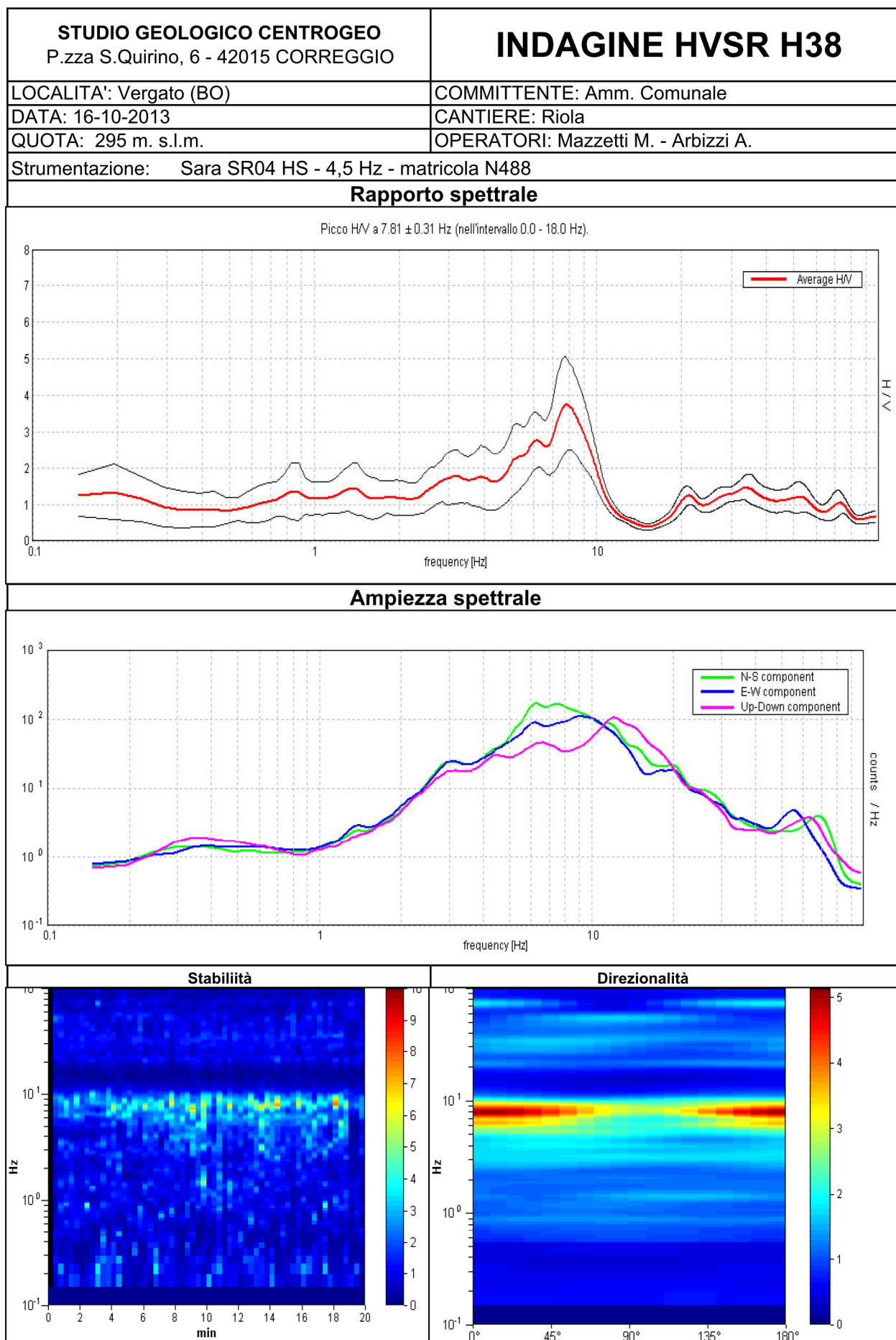


Stabilità



Direzionalità



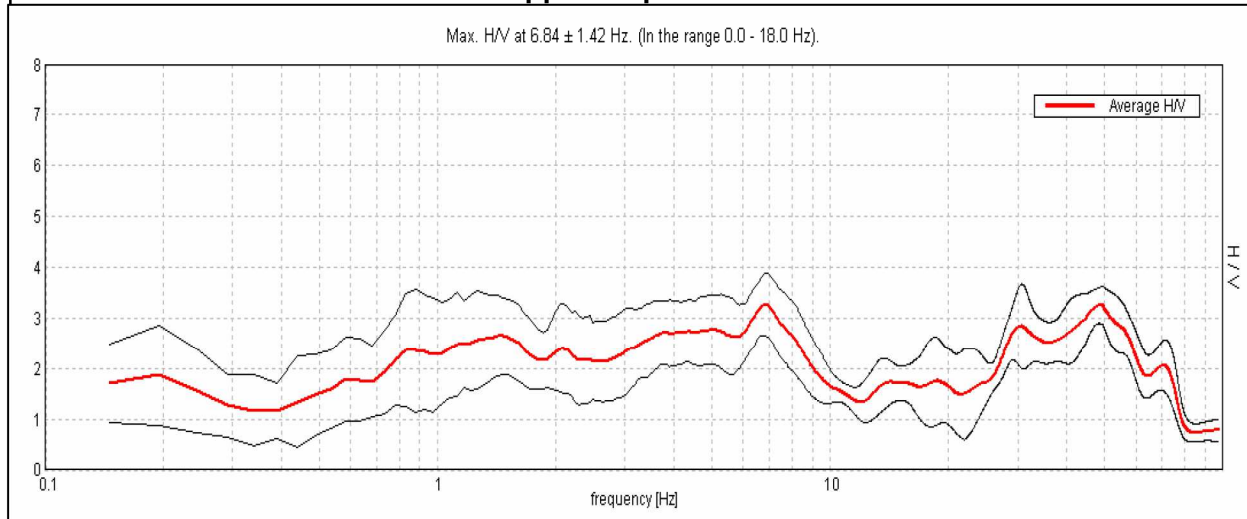


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H39
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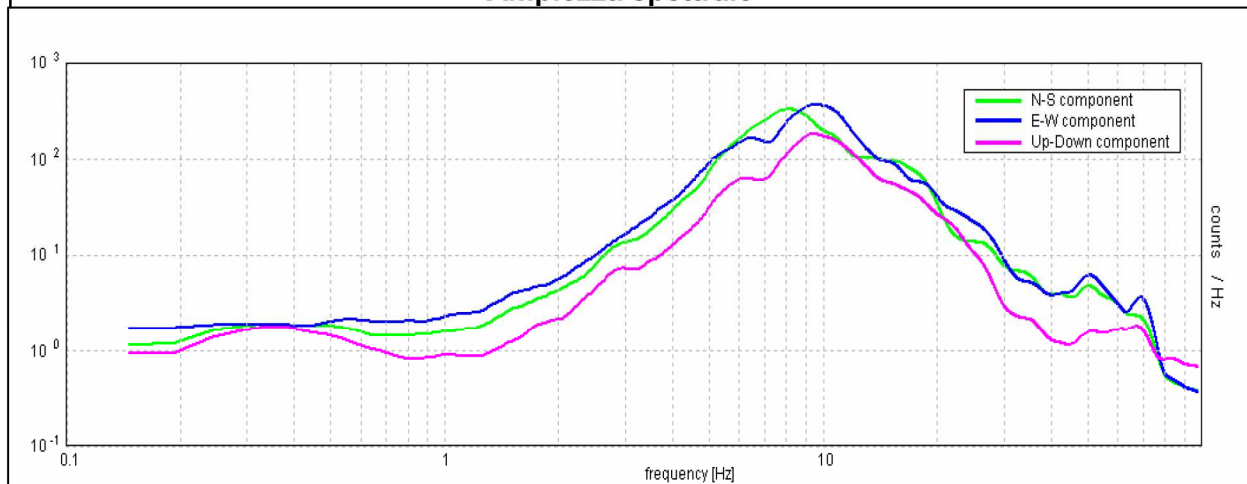
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 320 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

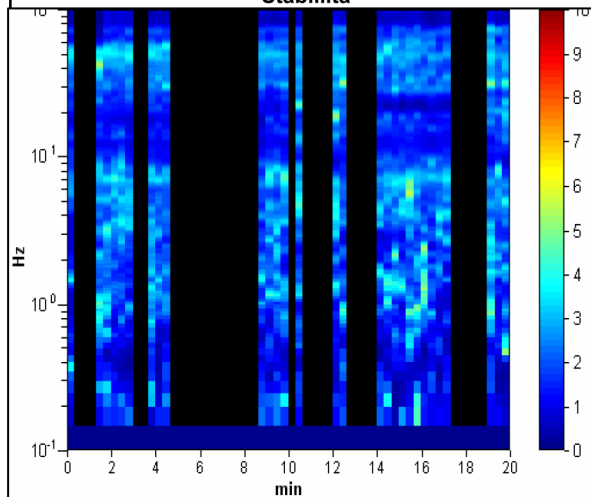
Rapporto spettrale



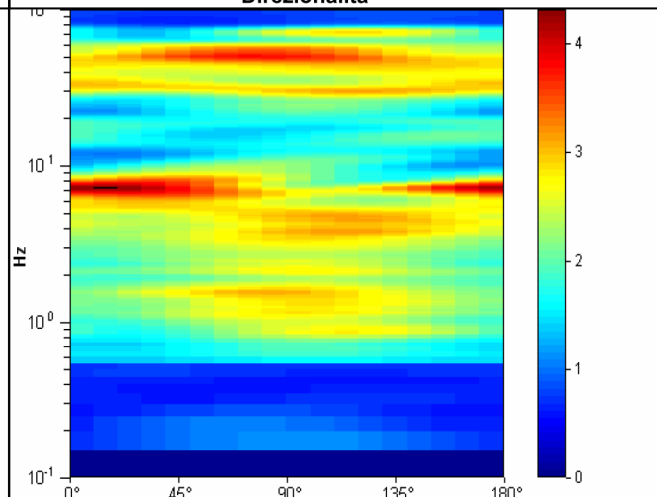
Ampiezza spettrale



Stabilità



Direzionalità

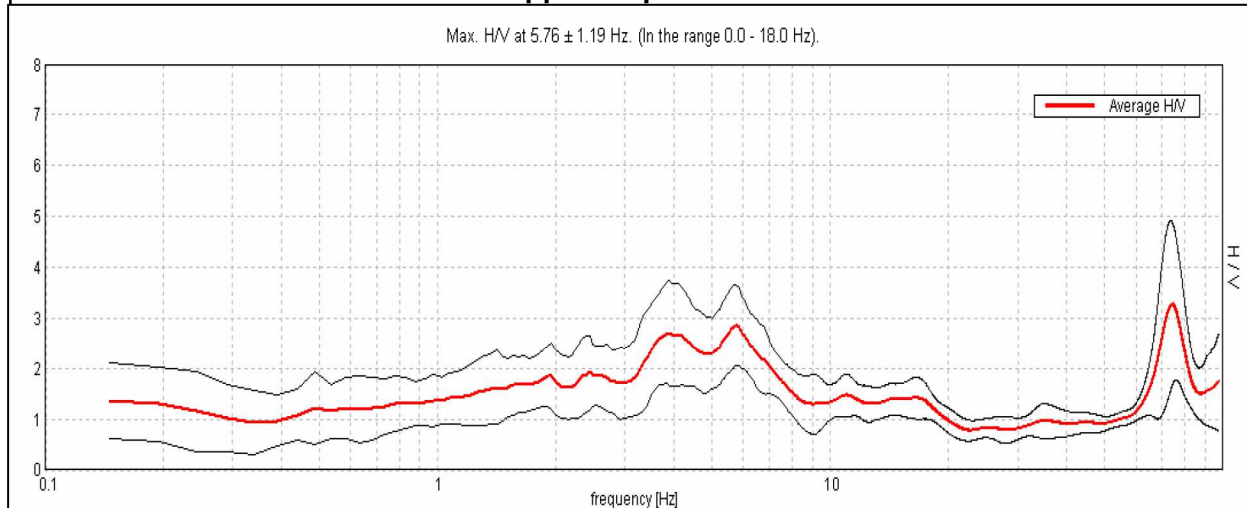


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H40
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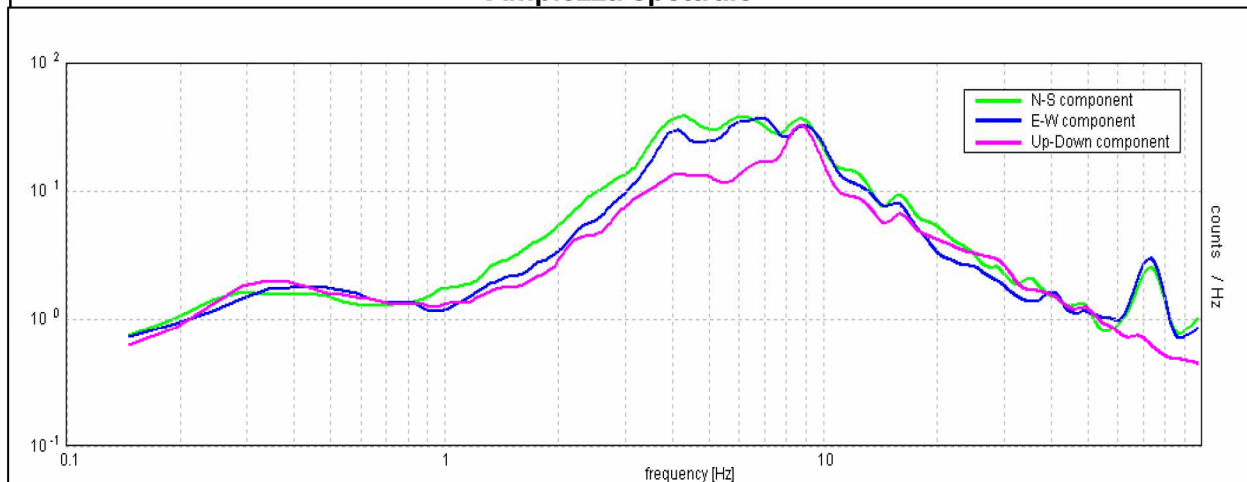
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 305 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

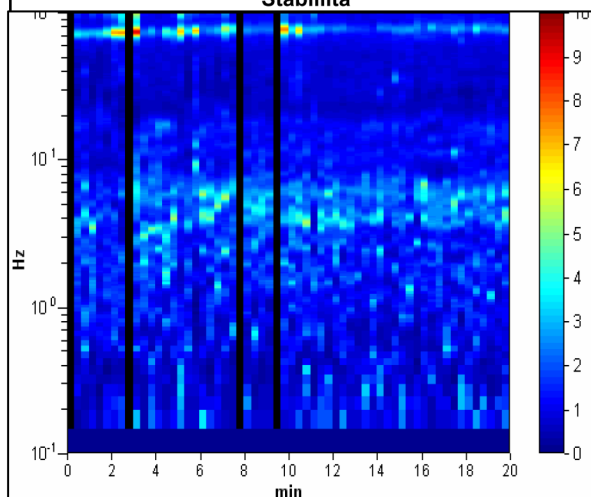
Rapporto spettrale



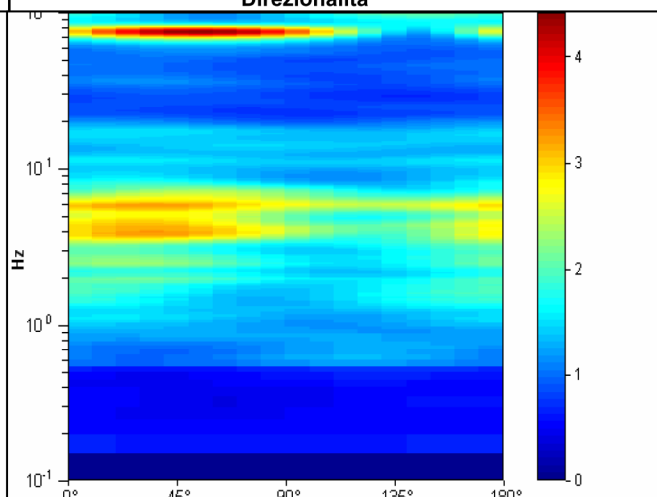
Ampiezza spettrale



Stabilità



Direzionalità

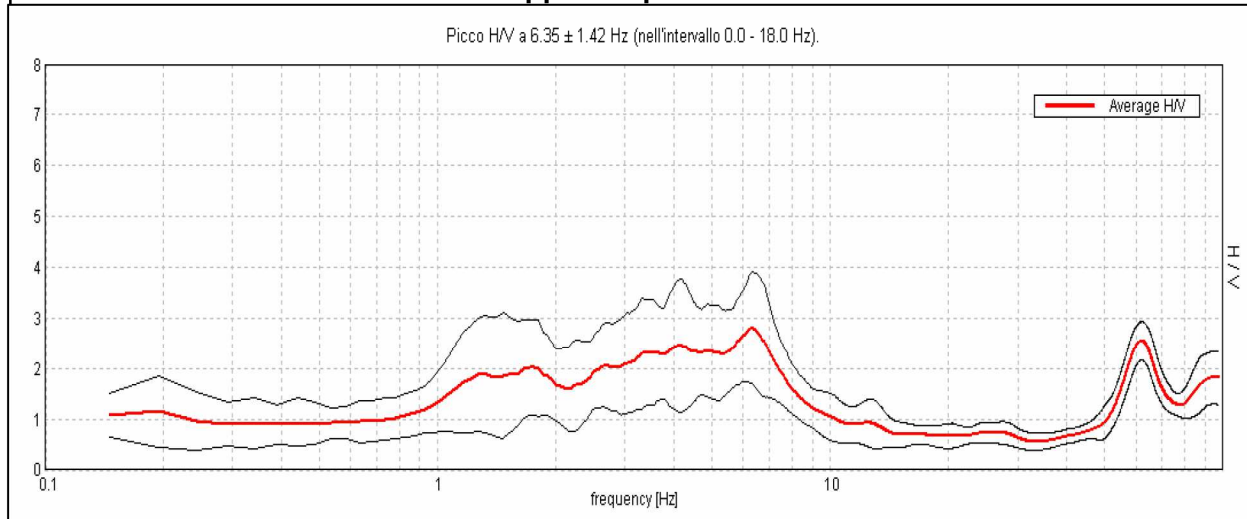


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H41
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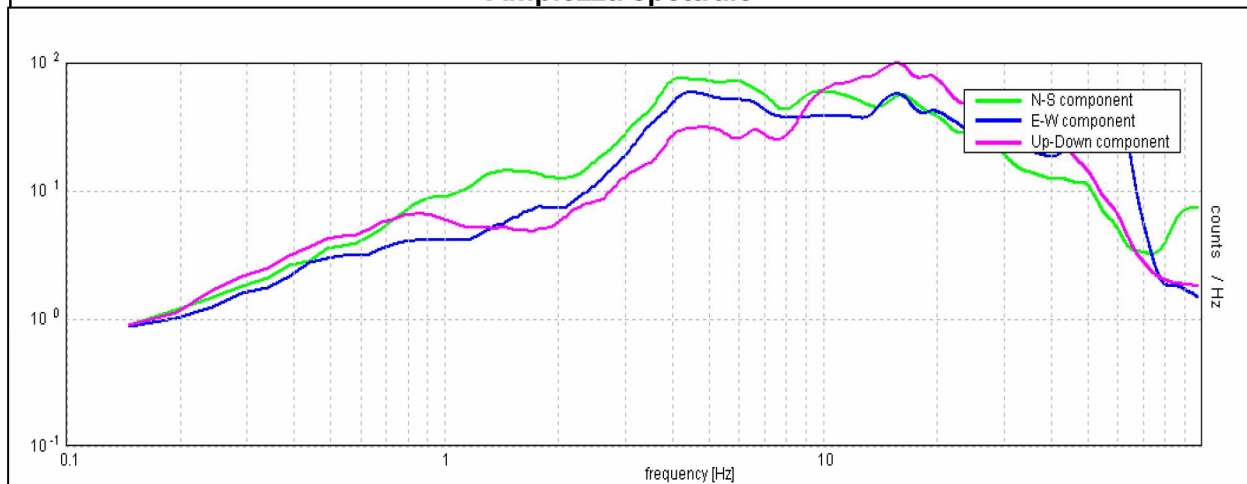
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 270 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

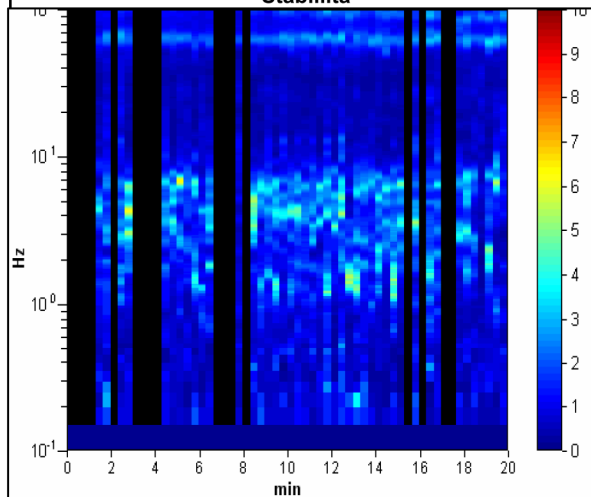
Rapporto spettrale



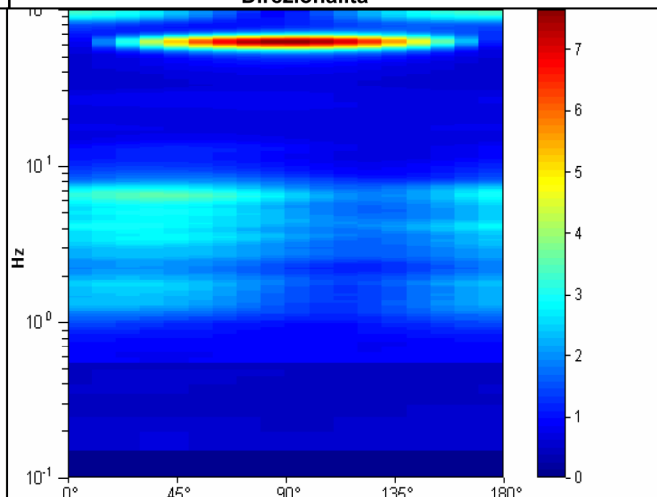
Ampiezza spettrale



Stabilità



Direzionalità

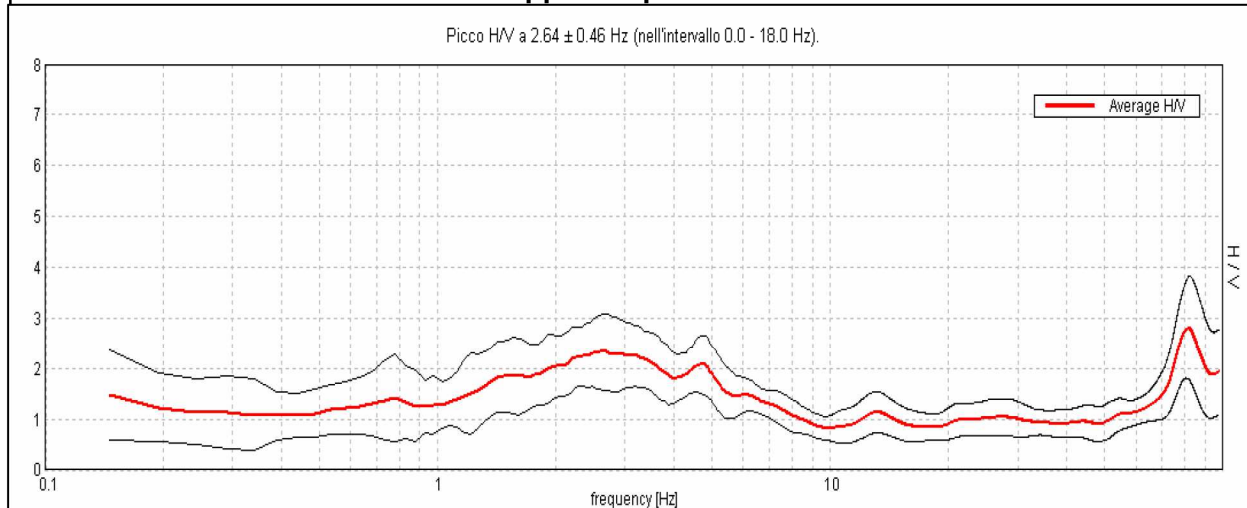


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H42
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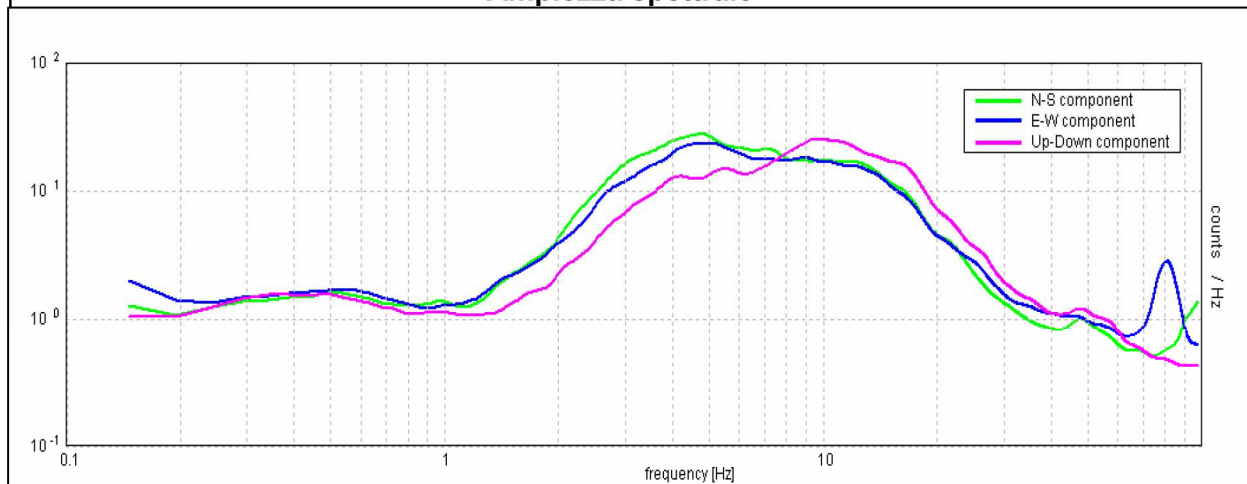
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 230 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

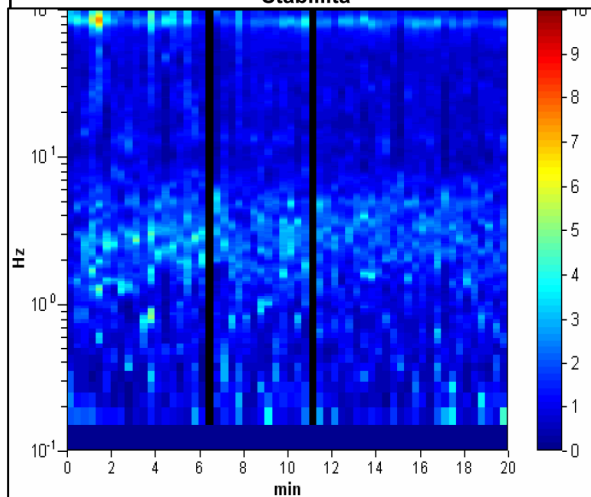
Rapporto spettrale



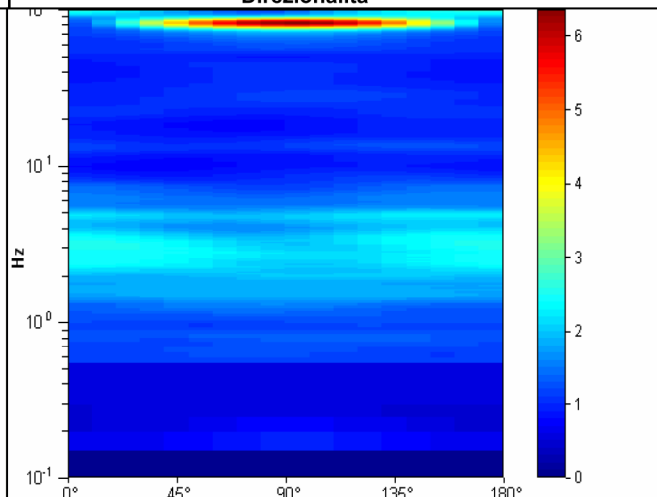
Ampiezza spettrale



Stabilità



Direzionalità



STUDIO GEOLOGICO CENTRO GEO
P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H43

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Vergato

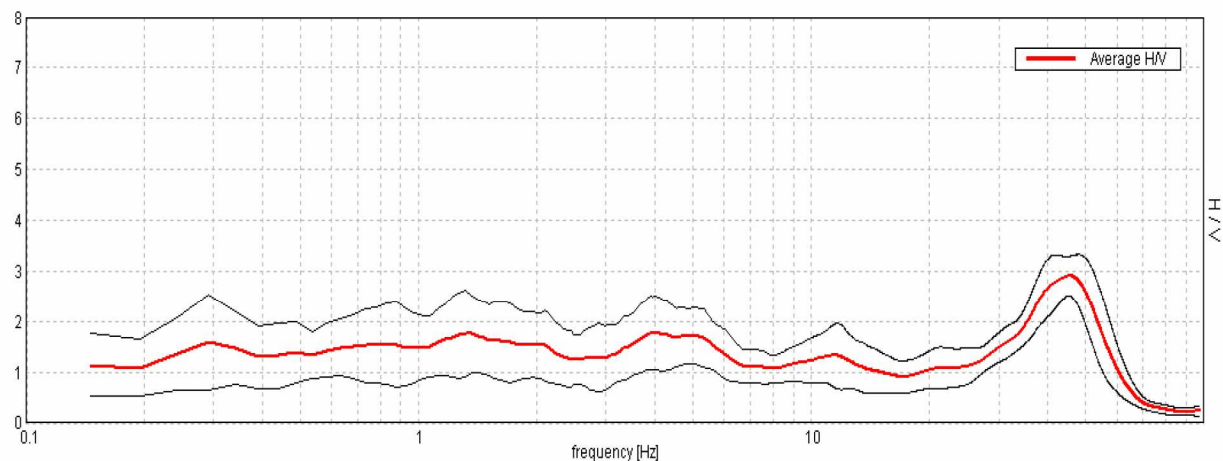
QUOTA: 205 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

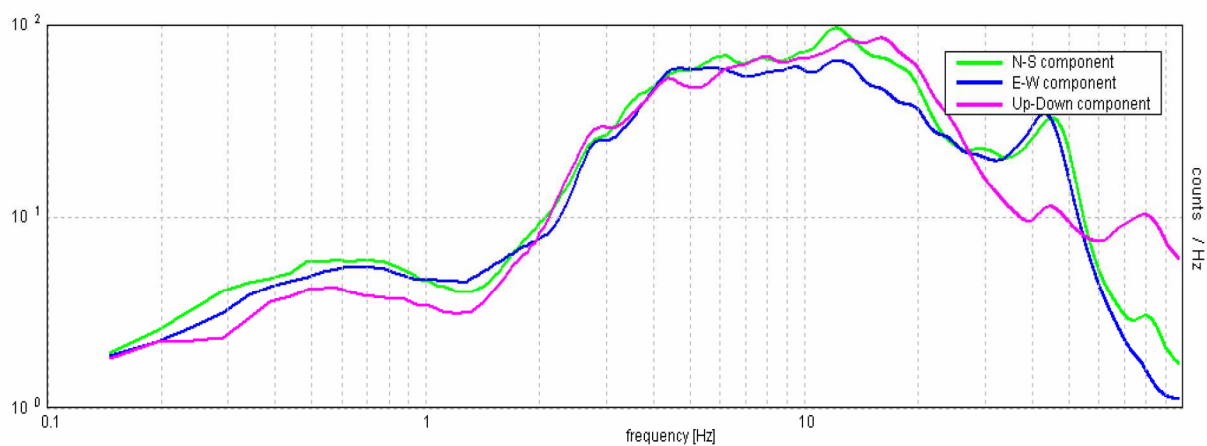
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

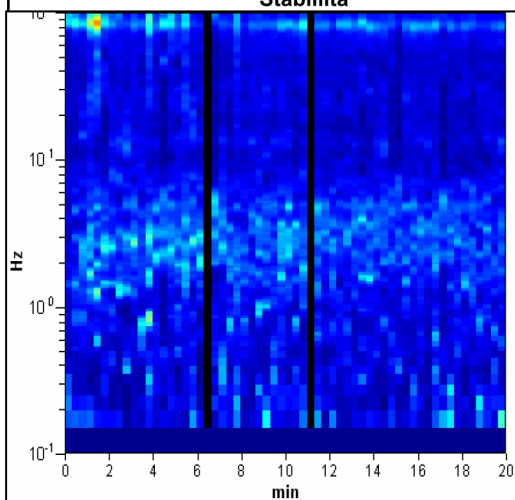
Picco H/V a 3.91 ± 2.37 Hz (nell'intervallo 0.0 - 18.0 Hz).



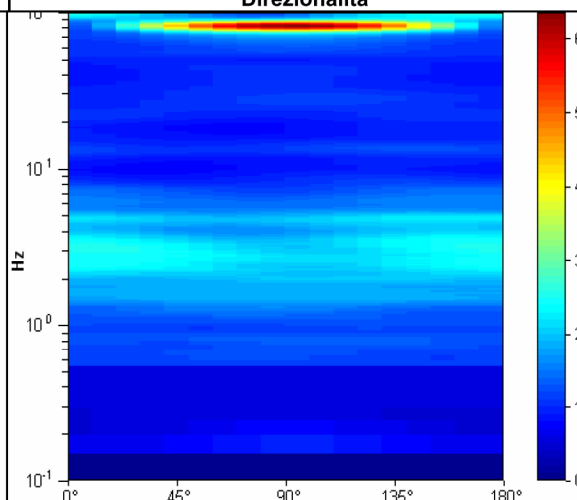
Ampiezza spettrale



Stabilità



Direzionalità

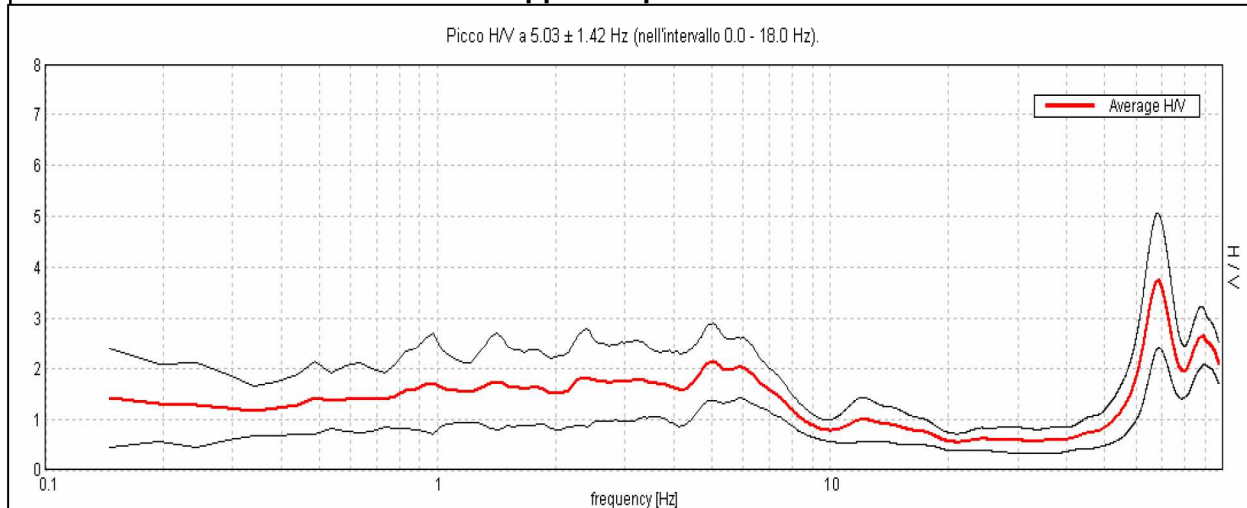


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H44
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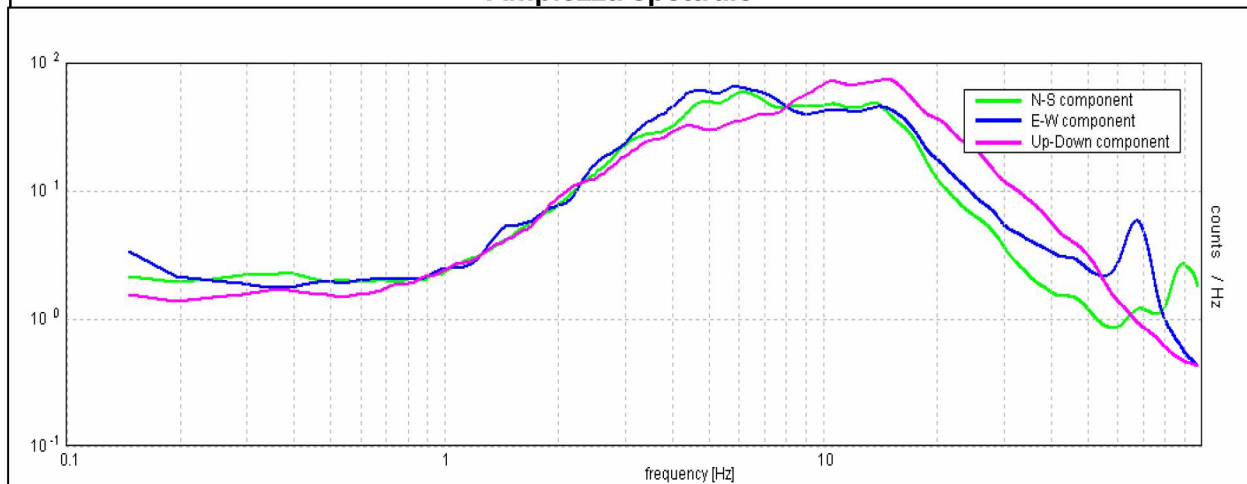
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

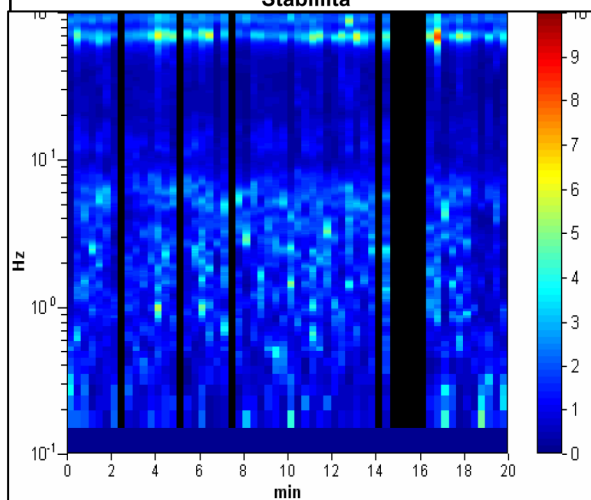
Rapporto spettrale



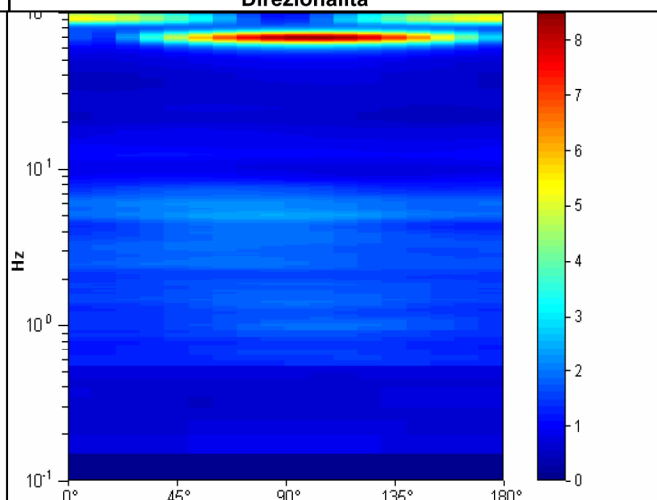
Ampiezza spettrale



Stabilità



Direzionalità

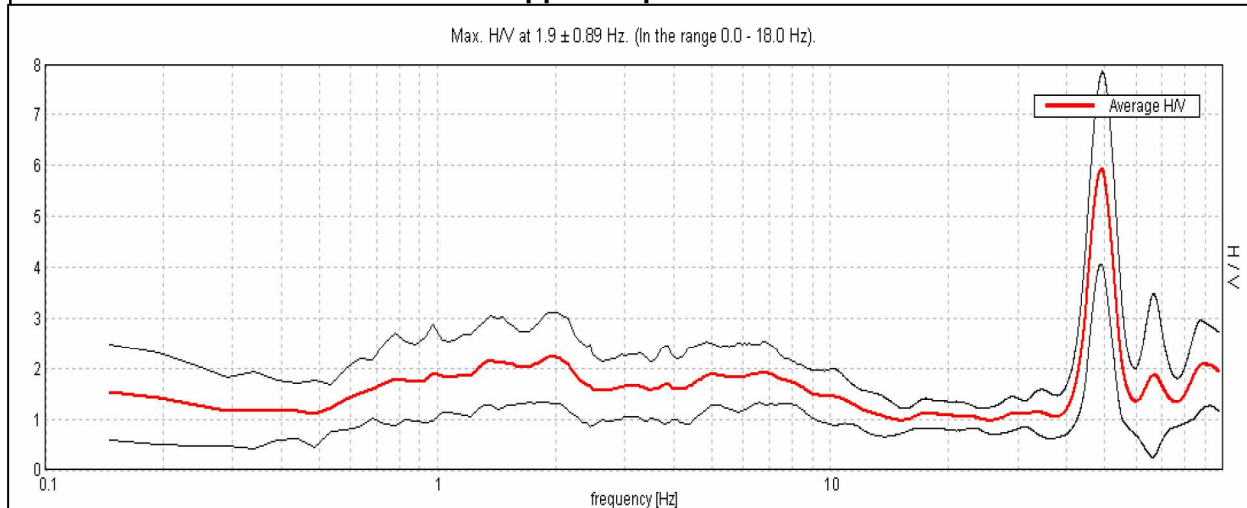


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H45
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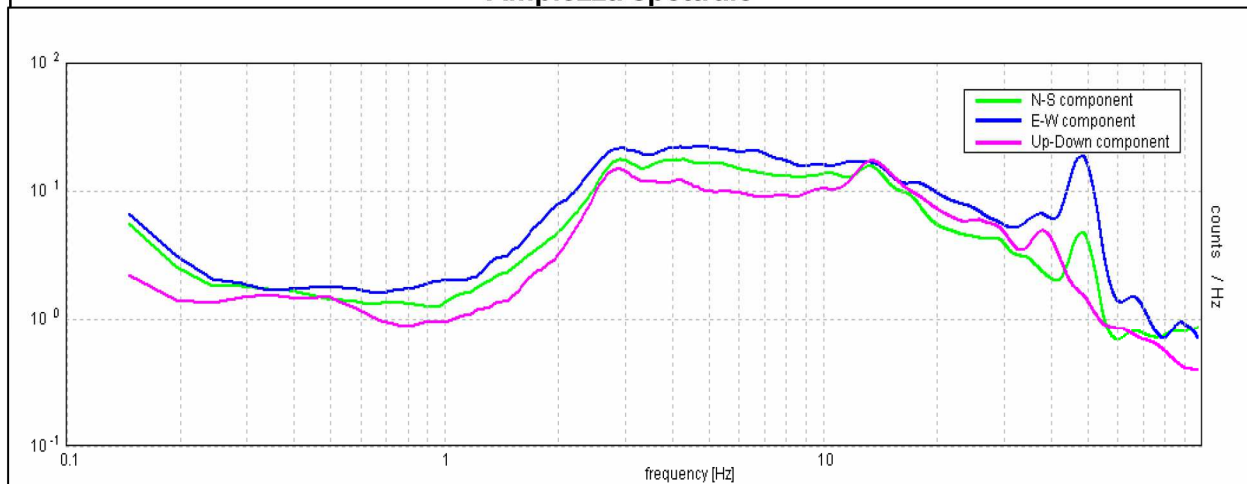
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

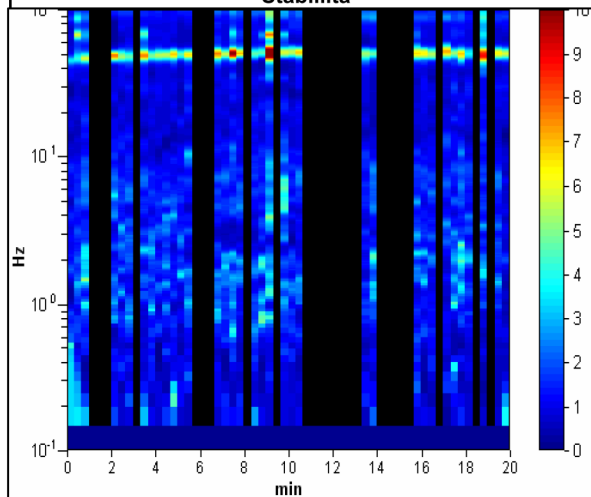
Rapporto spettrale



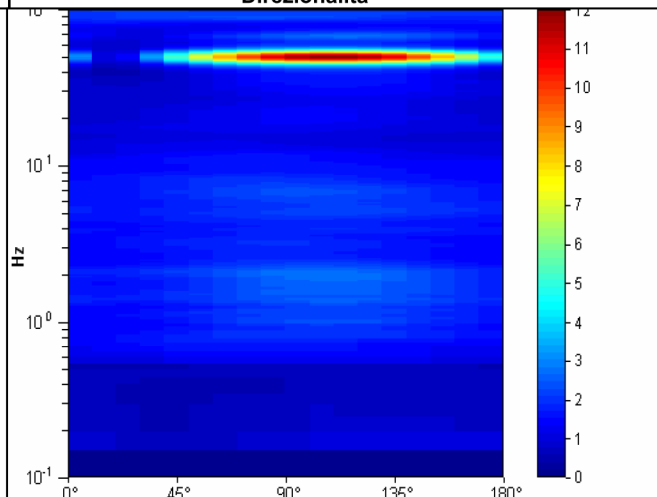
Ampiezza spettrale



Stabilità



Direzionalità

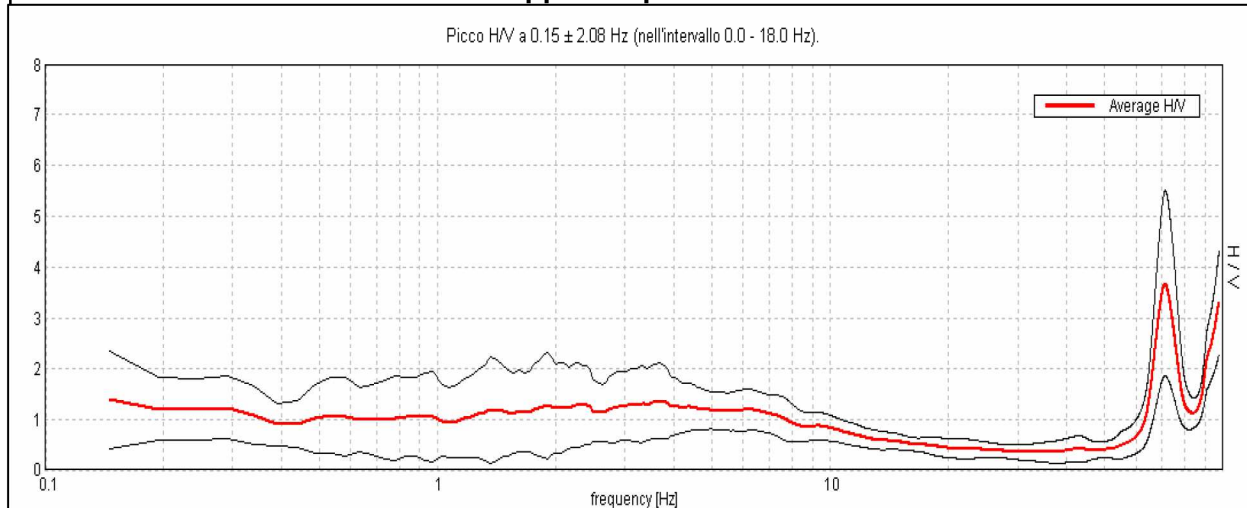


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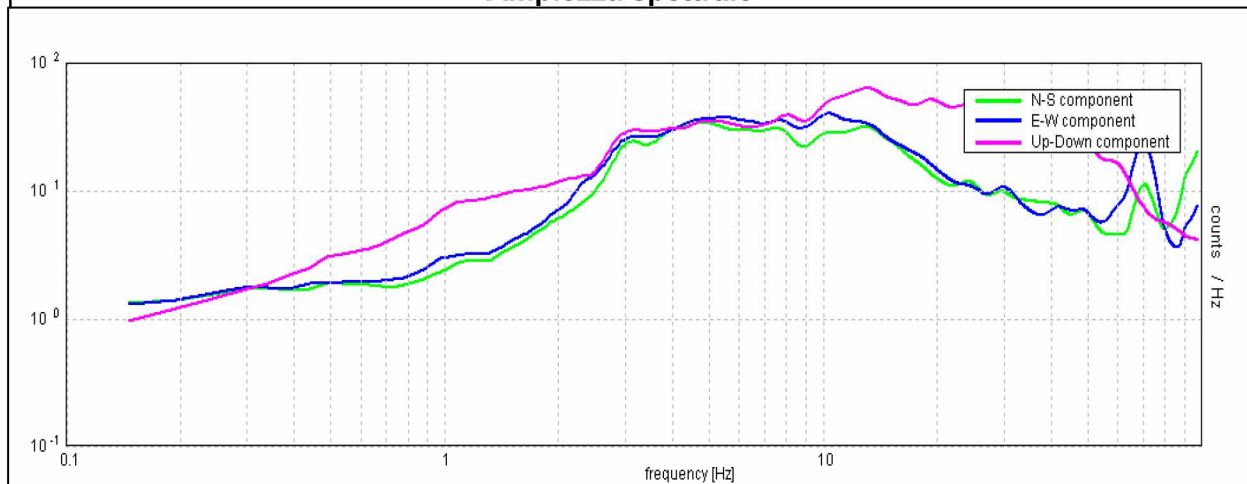
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 205 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

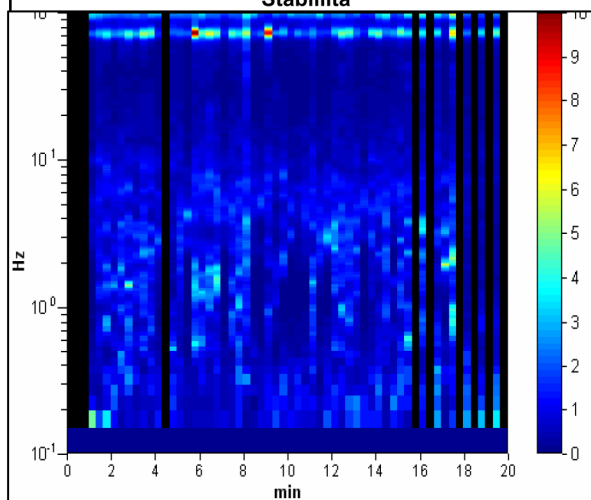
Rapporto spettrale



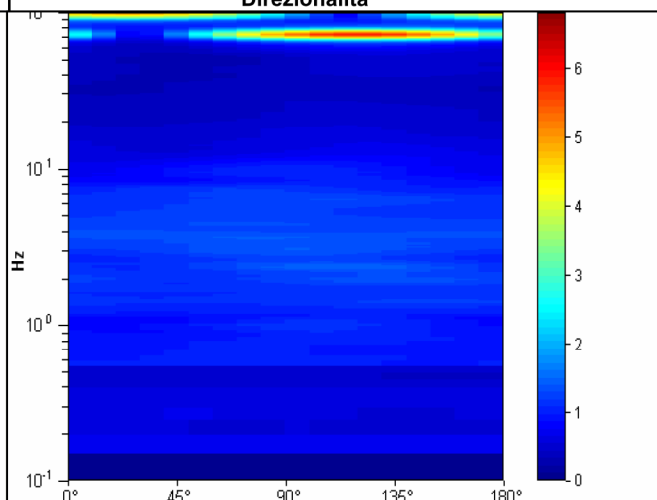
Ampiezza spettrale



Stabilità



Direzionalità

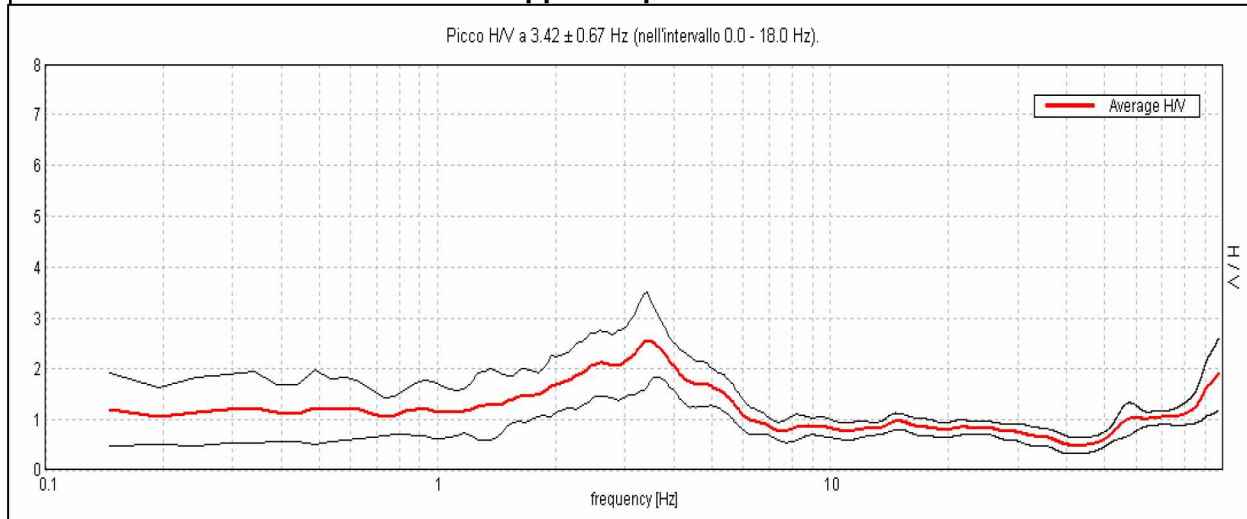


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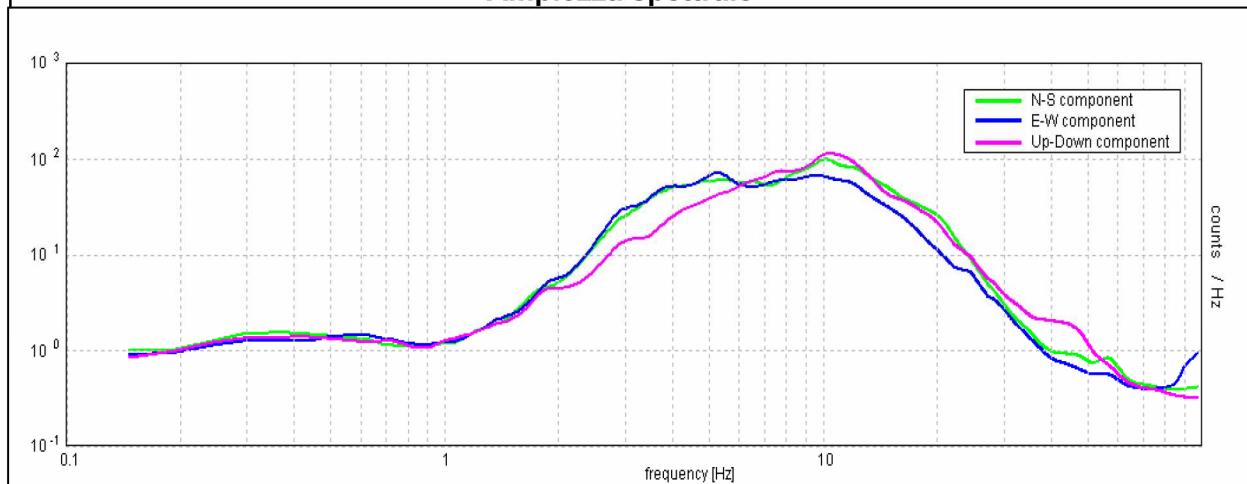
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 205 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

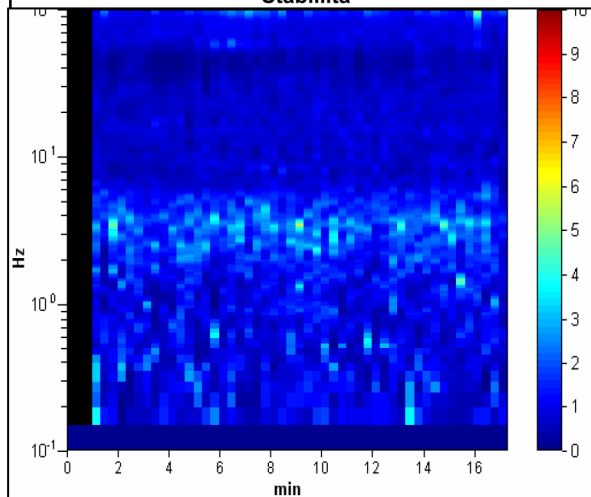
Rapporto spettrale



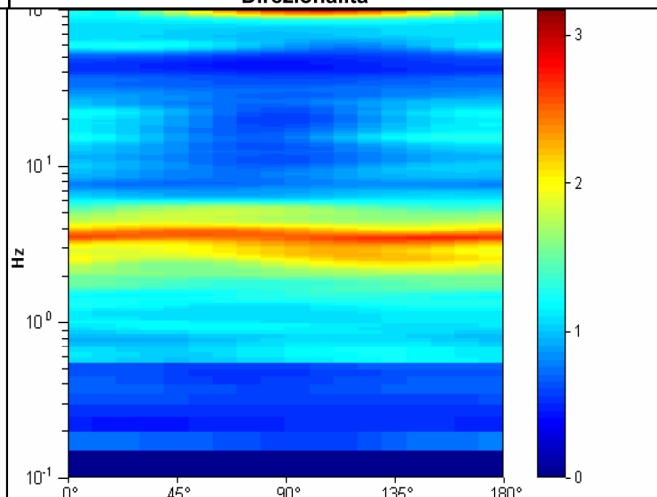
Ampiezza spettrale



Stabilità



Direzionalità

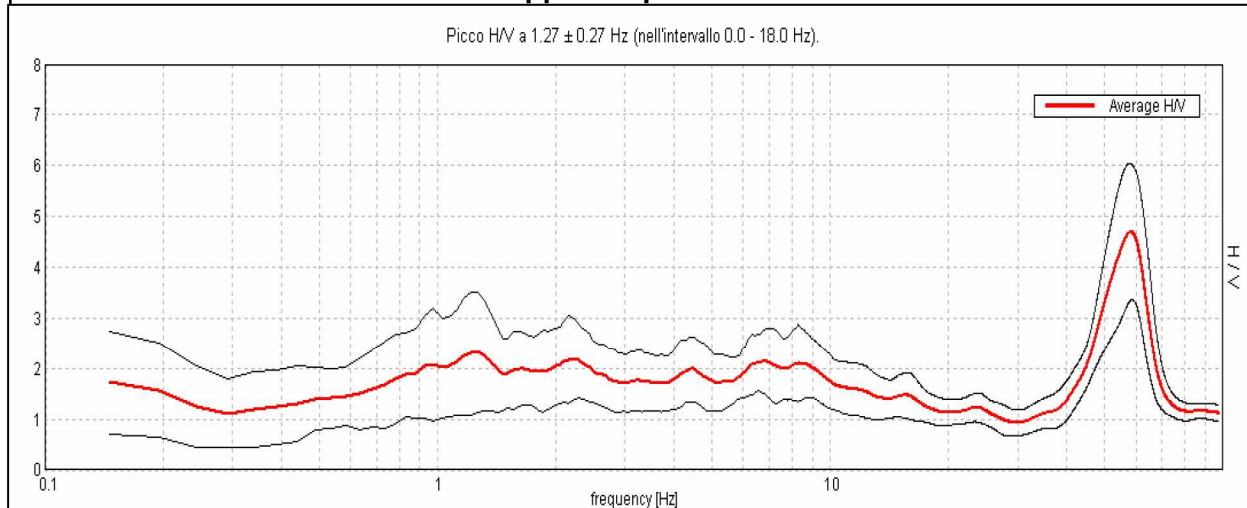


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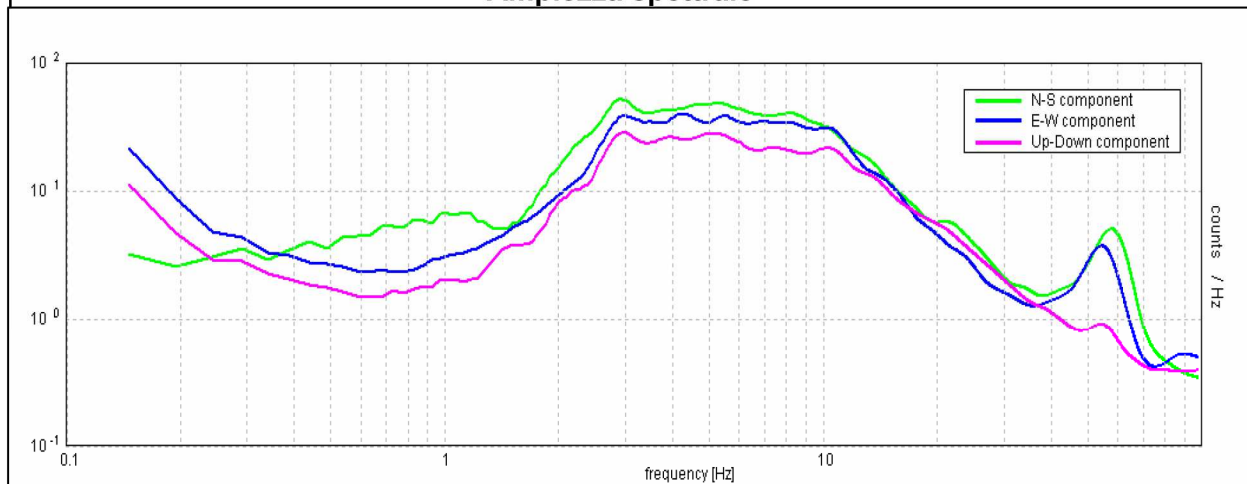
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 245 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

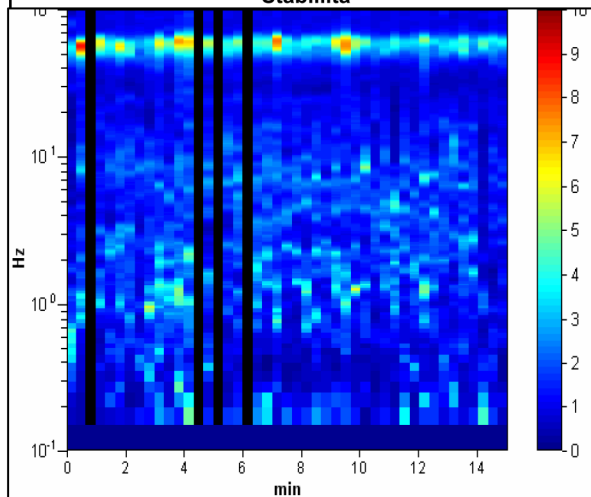
Rapporto spettrale



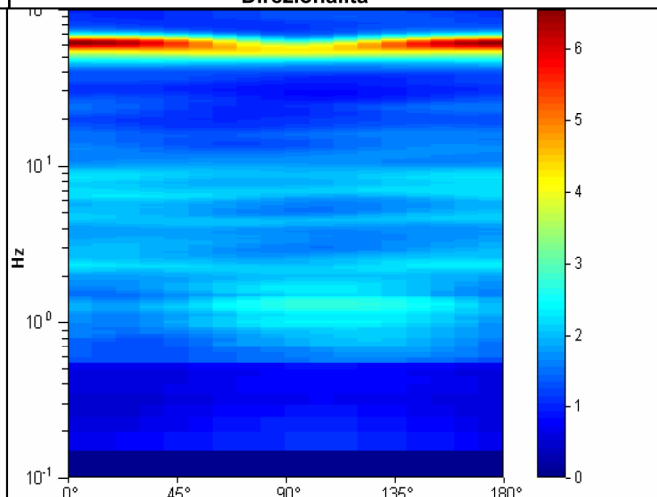
Ampiezza spettrale



Stabilità



Direzionalità



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P.zza S. Quirino, 6 - 42015 CORREGGIO

INDAGINE HVSR H49

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Vergato

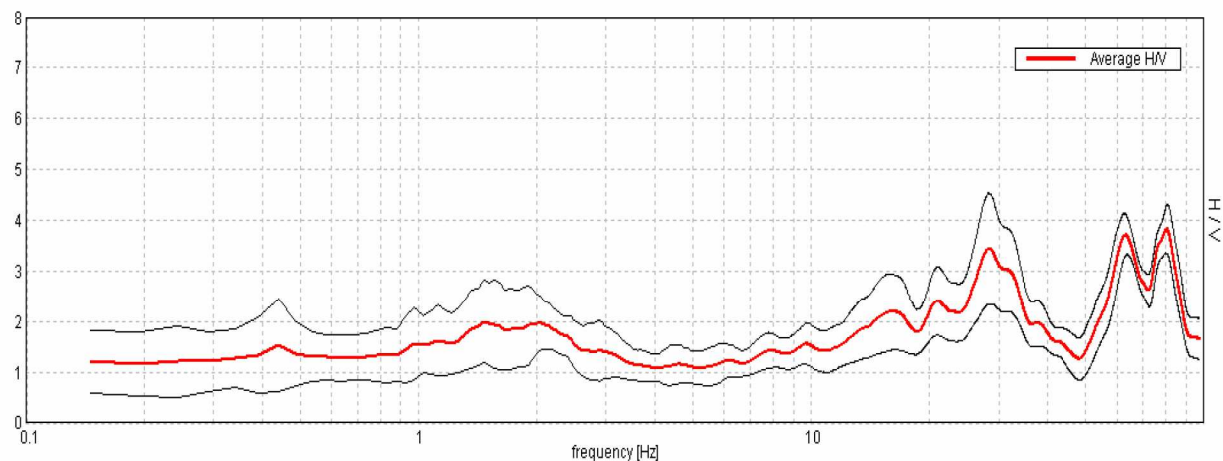
QUOTA: 240 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

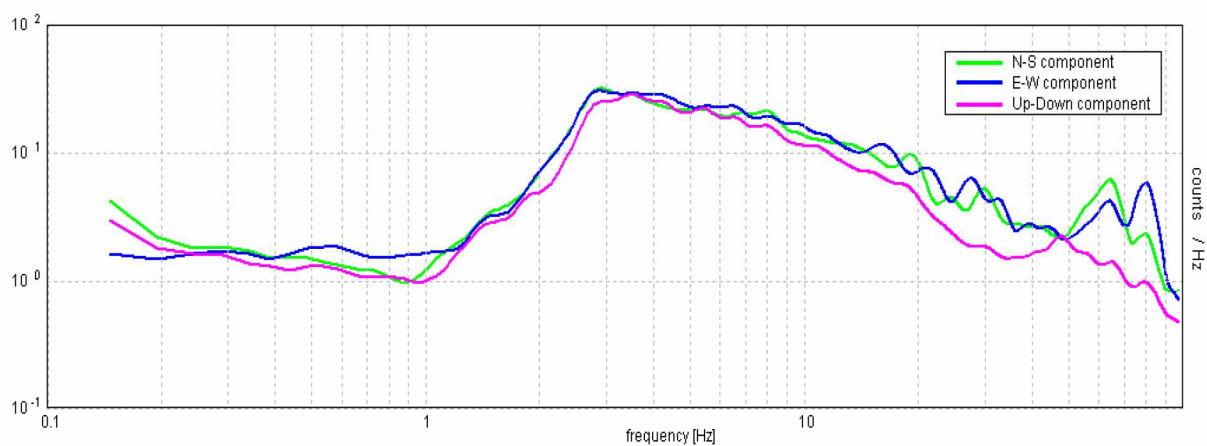
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

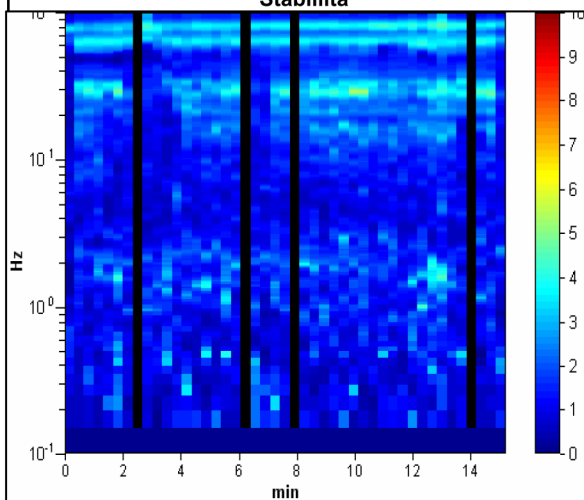
Picco HV a 15.82 ± 11.23 Hz (nell'intervallo 0.0 - 18.0 Hz).



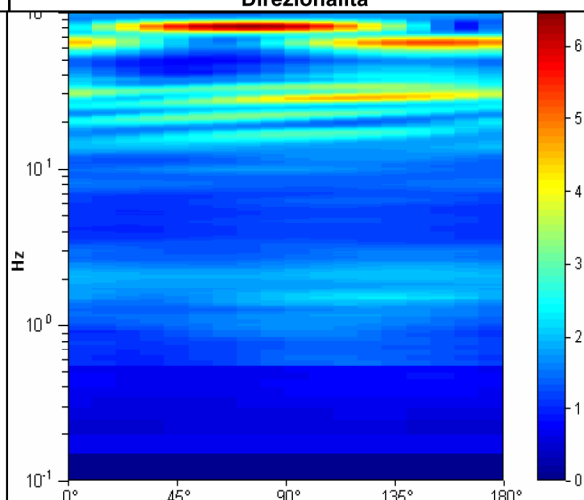
Ampiezza spettrale



Stabilità



Direzionalità

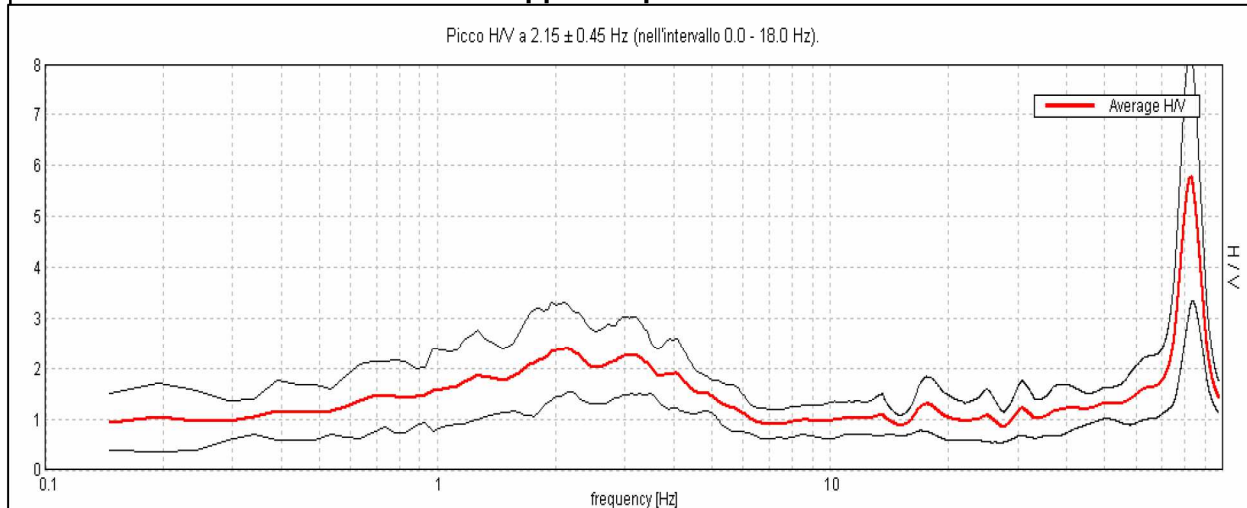


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LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 210 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale



Ampiezza spettrale

