



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



Regione Emilia-Romagna



CONFERENZA DELLE REGIONI E
DELLE PROVINCE AUTONOME

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

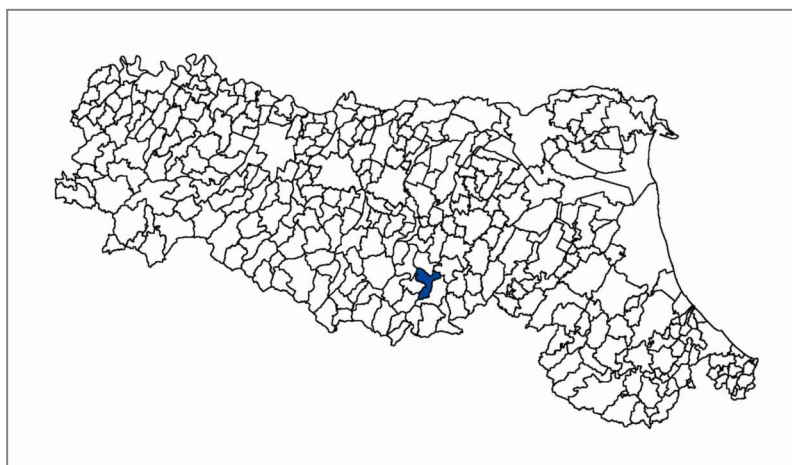
MICROZONAZIONE SISMICA

Analisi geologico tecnica e microzonazione
sismica del territorio di Vergato

Prospezioni geofisiche

Regione Emilia - Romagna

Piano Strutturale Comunale in Forma Associata
dei Comuni di Marzabotto e Vergato



Regione
Emilia Romagna

*Studio realizzato con il contributo di
cui all'OPCM 4007/2012
Coordinamento della Regione
Emilia - Romagna - Servizio Geologico
Luca Martelli*

Soggetto realizzatore
Studio Geologico CENTROGEO

Progetto:
Gian Pietro Mazzetti
Collaboratori:
Stefano Gilli, Andrea Arbizzi,
Mauro Mzzetti
Elaborazioni GIS:
Studio Benaglia
Professionisti associati
Corrado Ugoletti

Comune di Marzabotto

Sindaco:
Sandra Focci
Responsabile Settore
Servizi Tecnici:
Maria di Donato

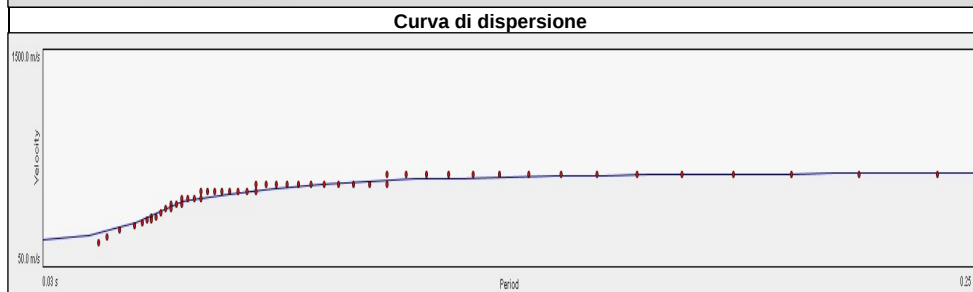
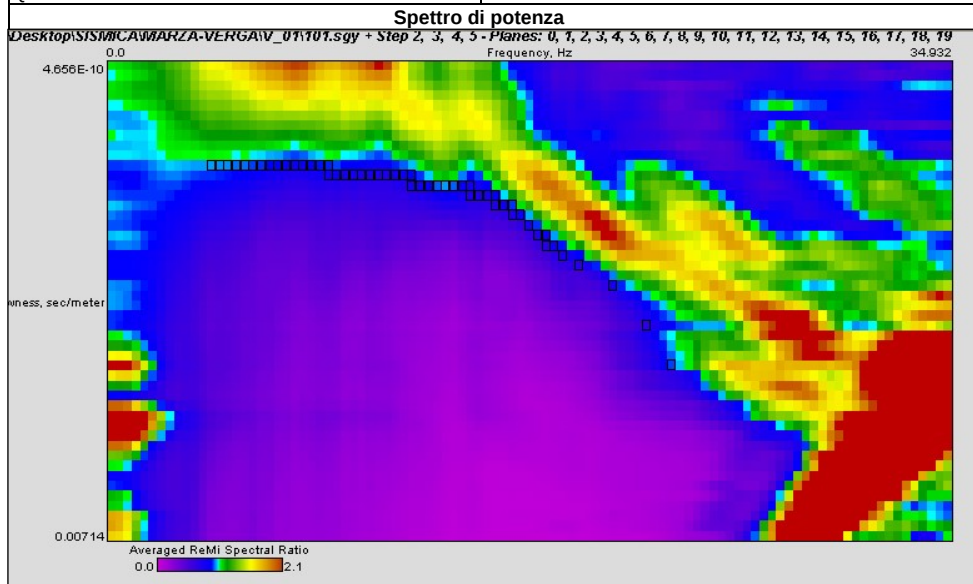
Data:
Aprile 2014

INDAGINI GEOFISICHE REMI/MASW

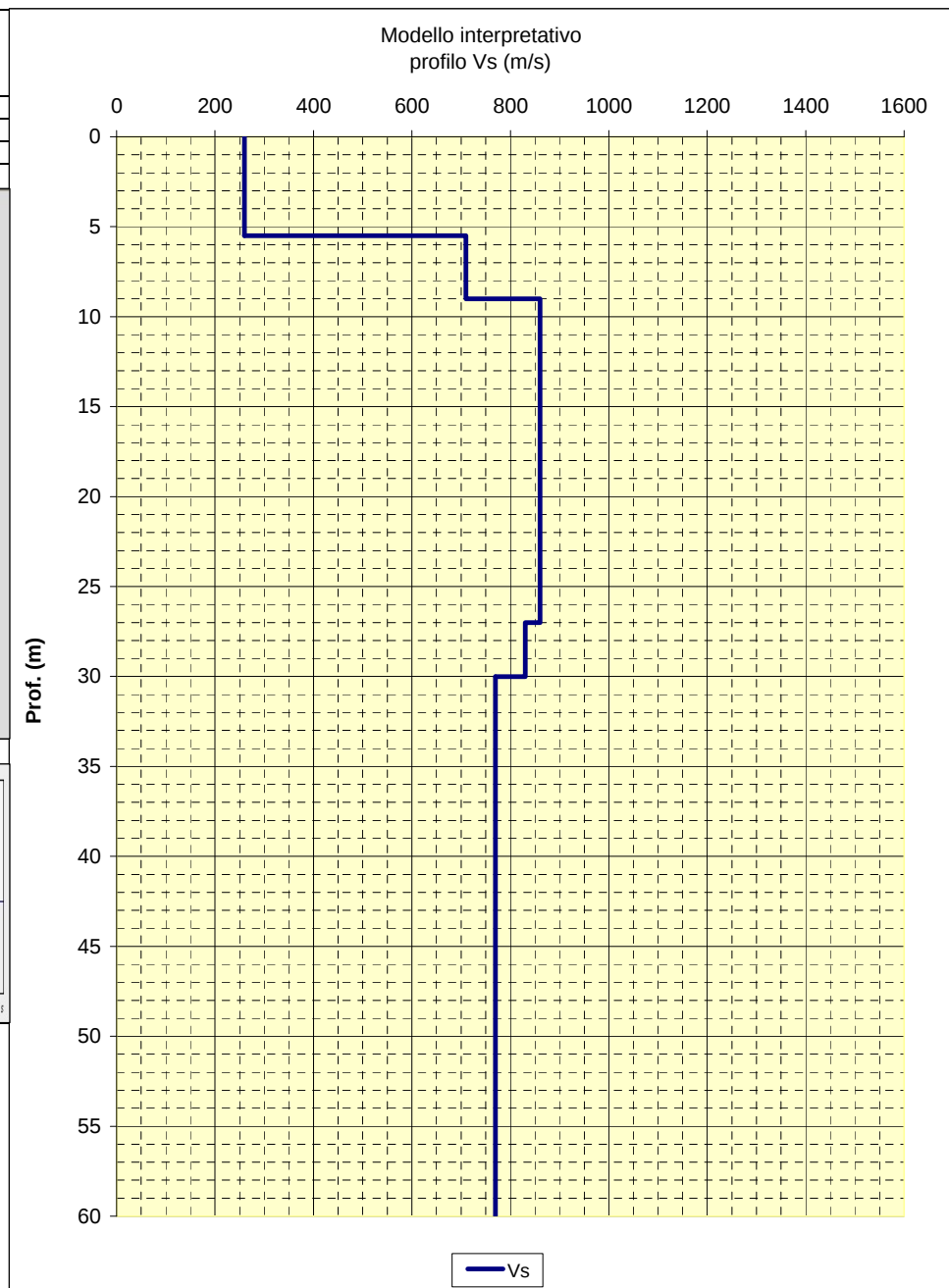
STUDIO GEOLOGICO CENTROGEO

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. R01
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 285 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	5.5	5.5	260
	2	5.5	9	3.5	710
	3		27	18	860
	4	27	30	3	830
	5	30	INF	INF	770
	6				
	7				
	8				
	9				
	10				



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

Desktop\SISMIC\AMARZA-VERGATO_02\101.sgy + Step 2, 3, 4, 5 - Files: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

0.0

Frequency, Hz

34.932

0.0

Power, sec/meter

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1500.0 m/s

50.0 m/s

0.00 s

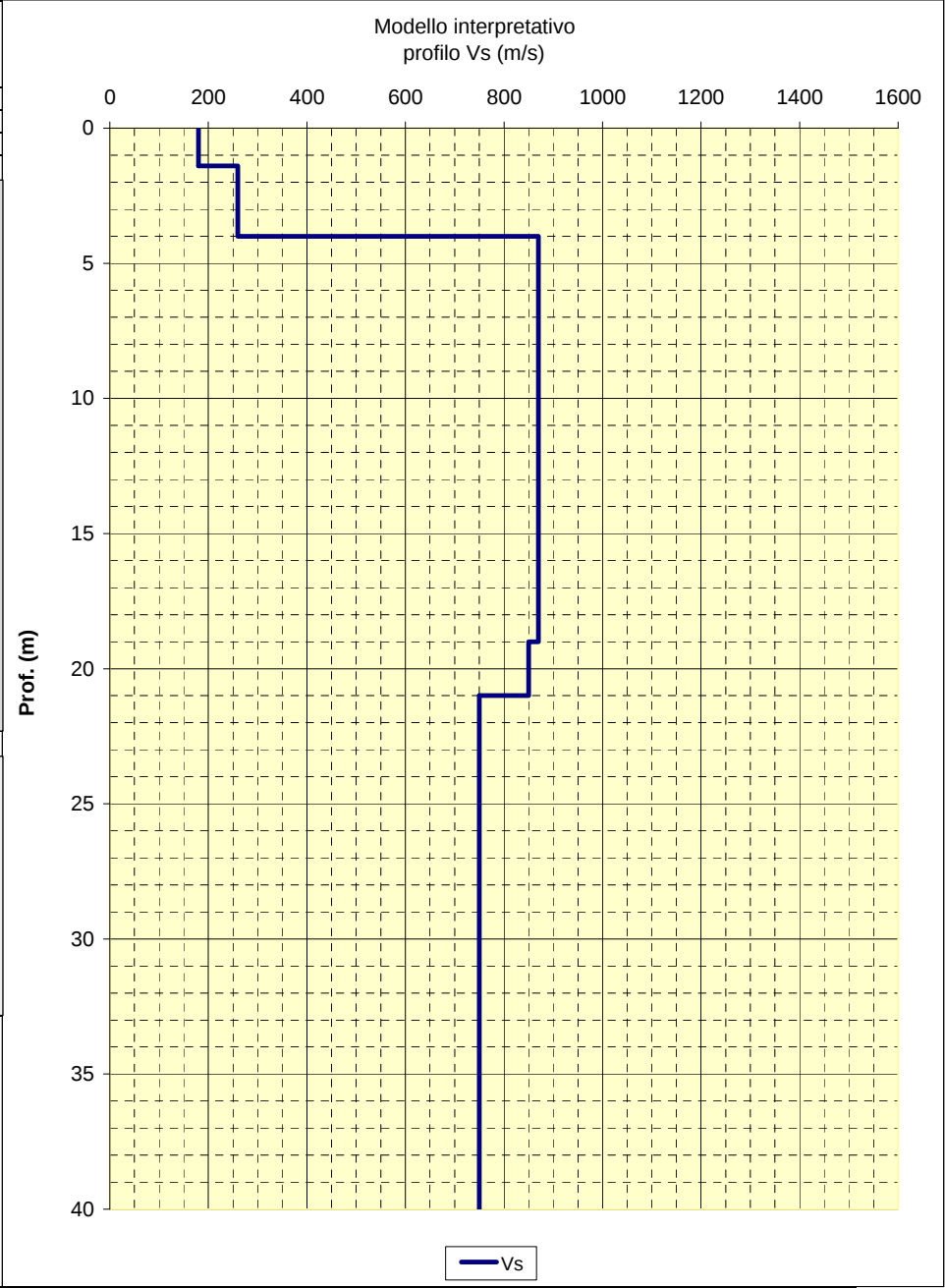
0.2 s

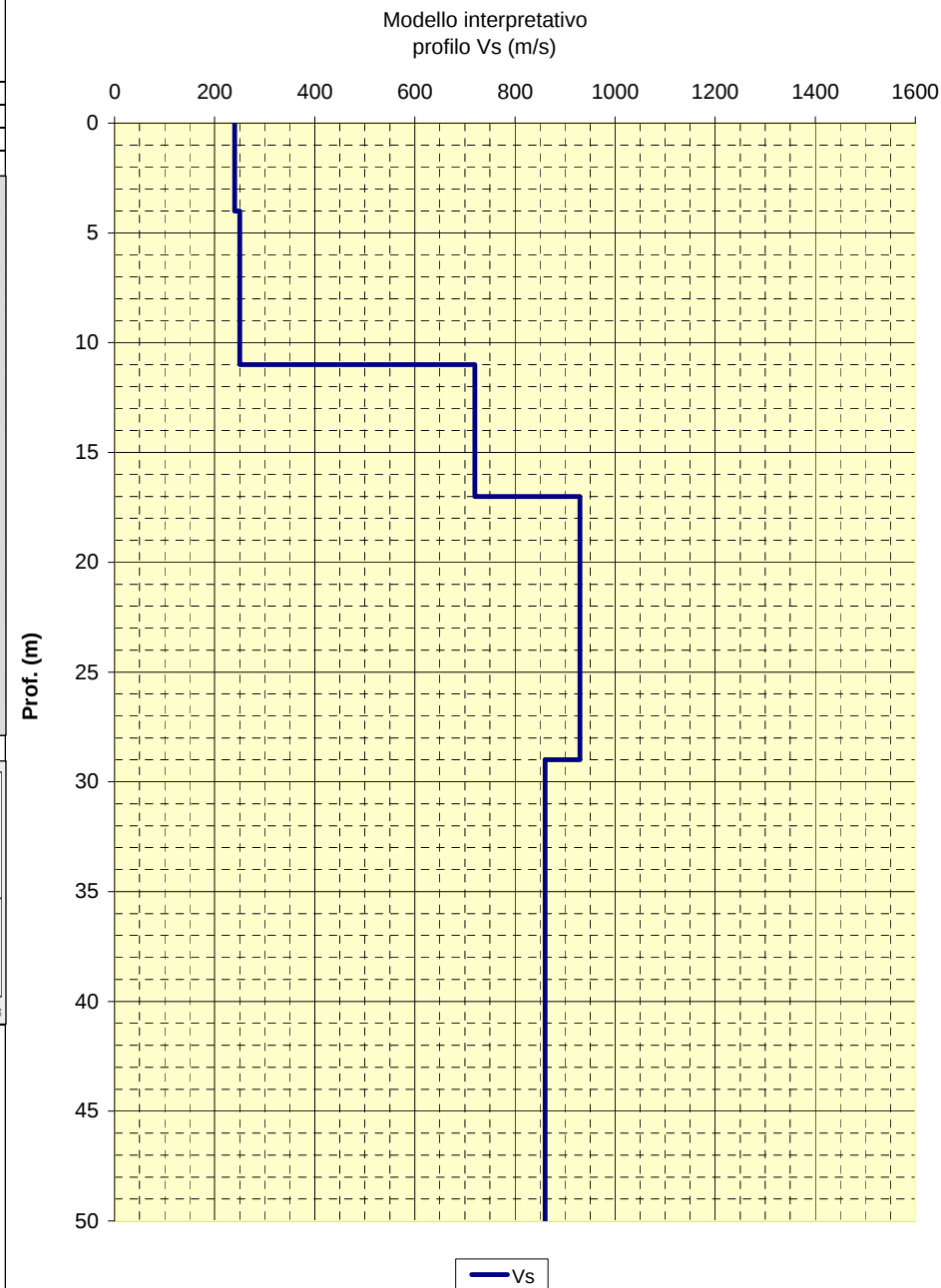
Period

Note:

Modello interpretativo

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





INDAGINE MASW/Re.Mi.
R05

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

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

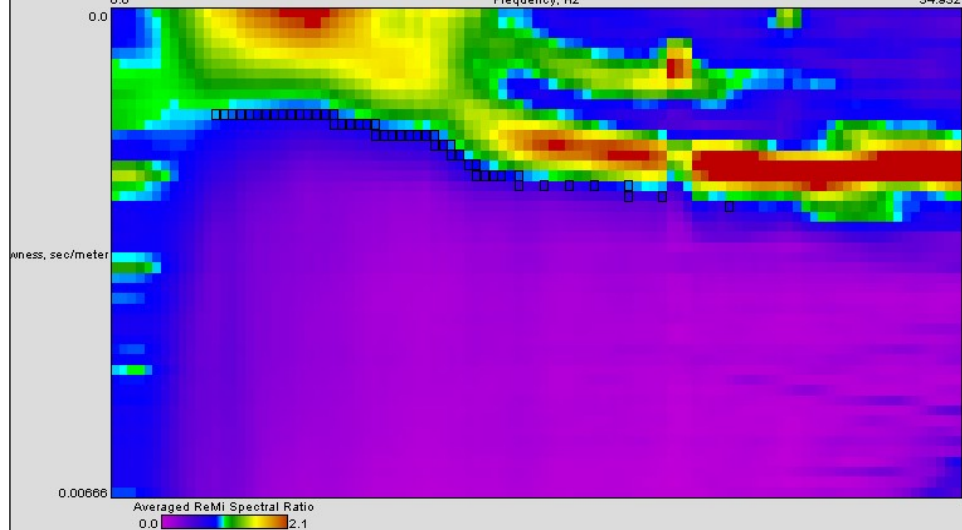
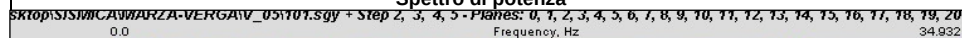
DATA: 09-10-2013

CANTIERE: Riola

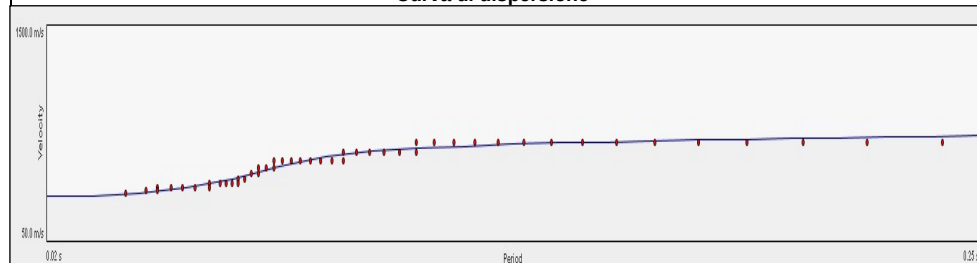
QUOTA: 240 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza



Curva di dispersione

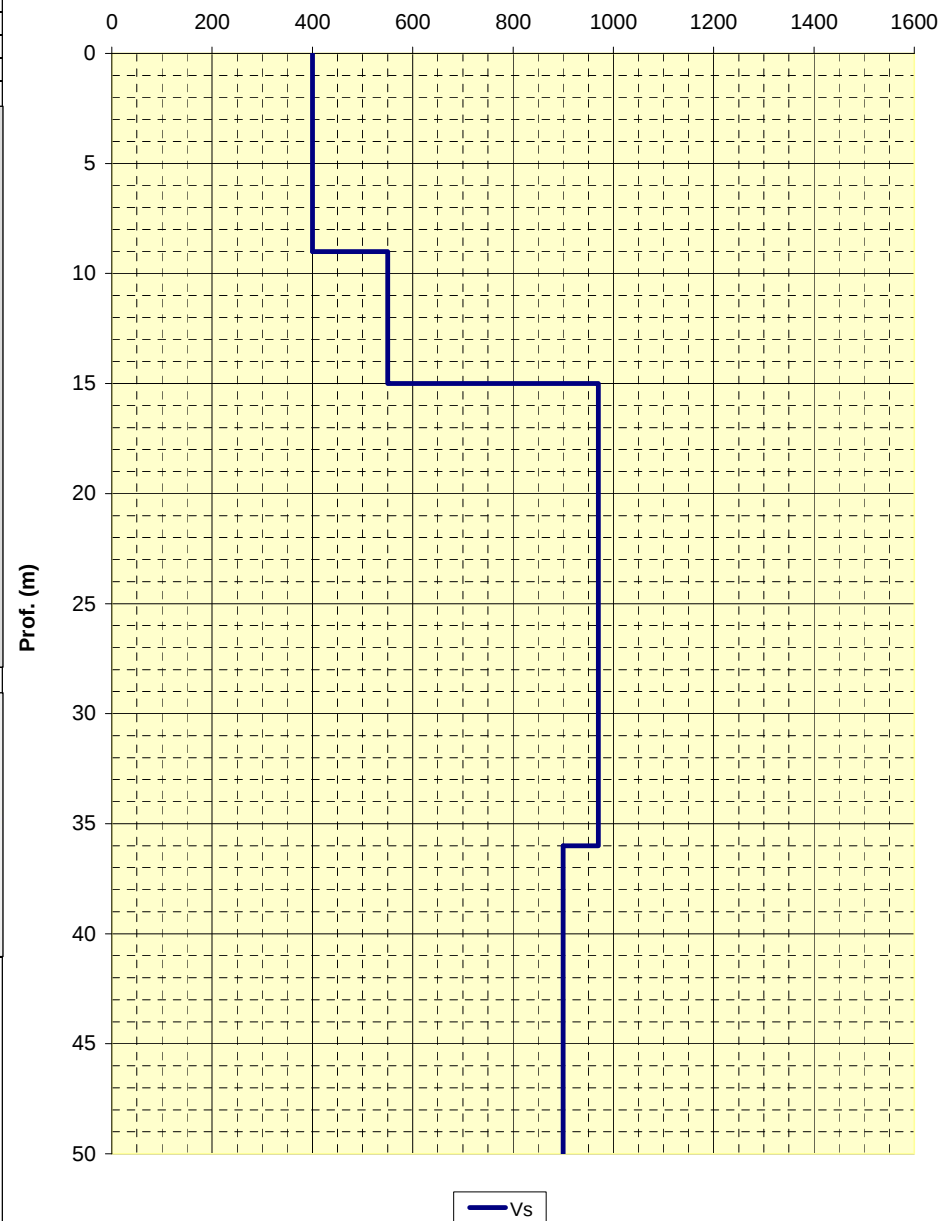


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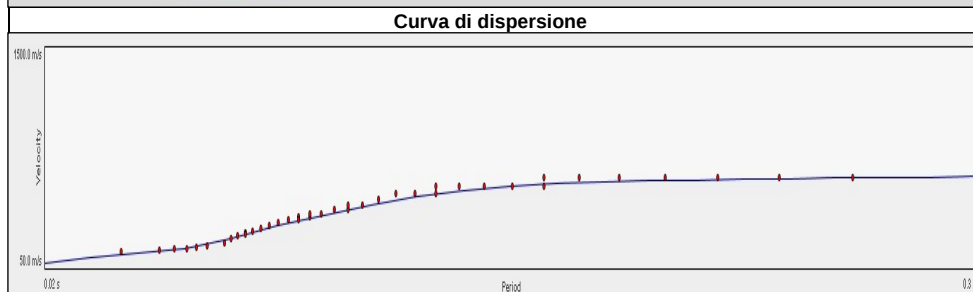
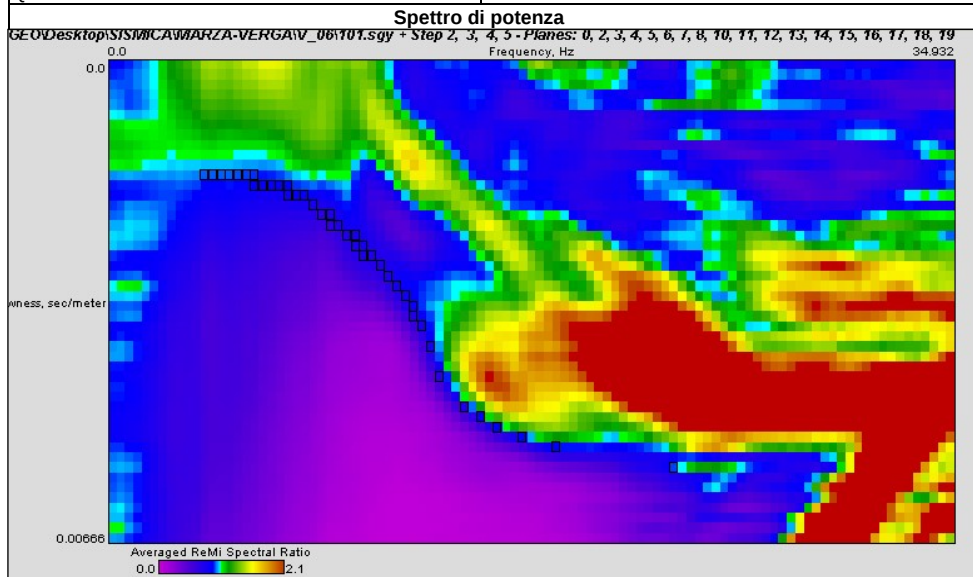
Modello interpretativo

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				

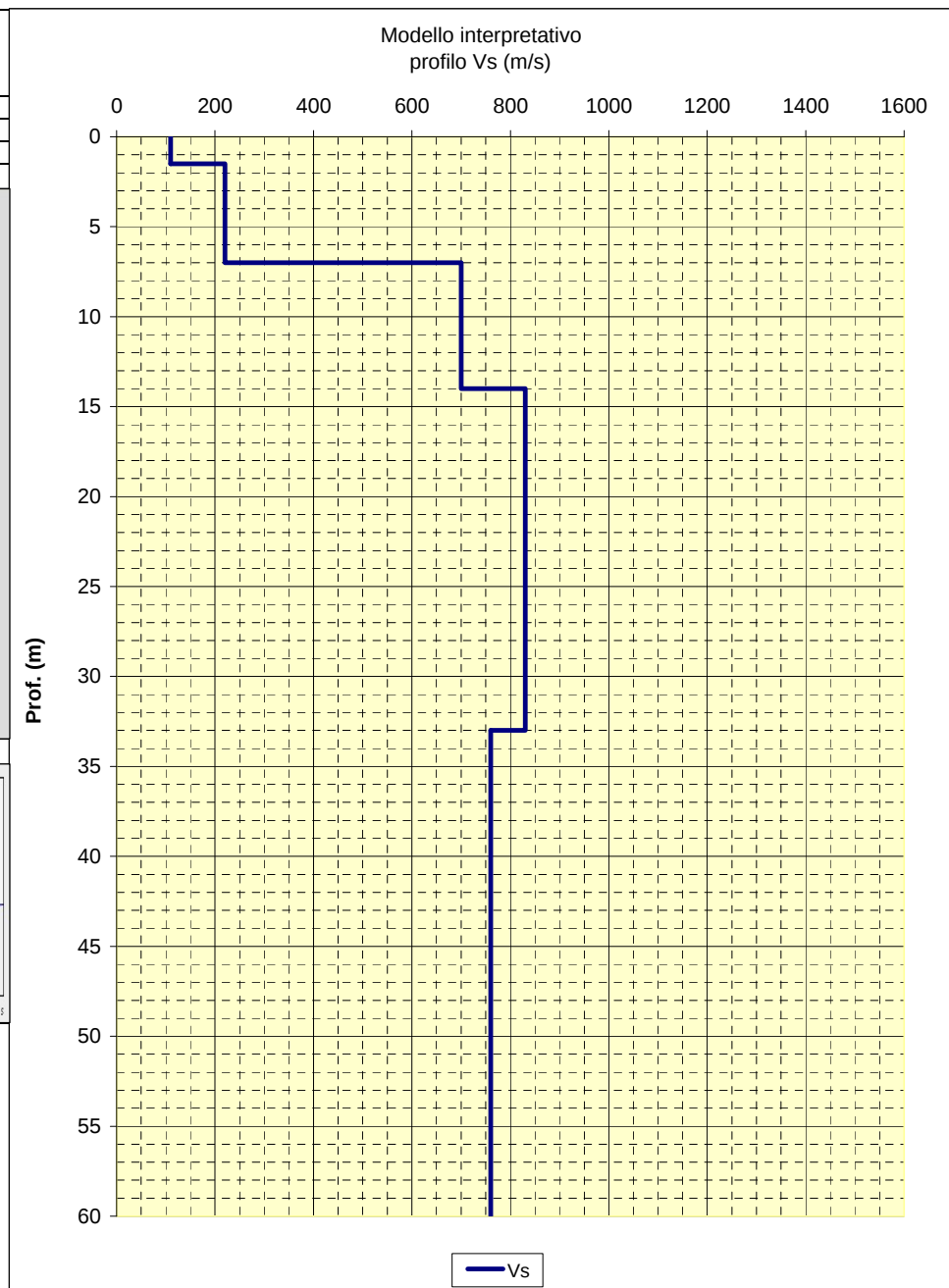
Modello interpretativo
profilo Vs (m/s)



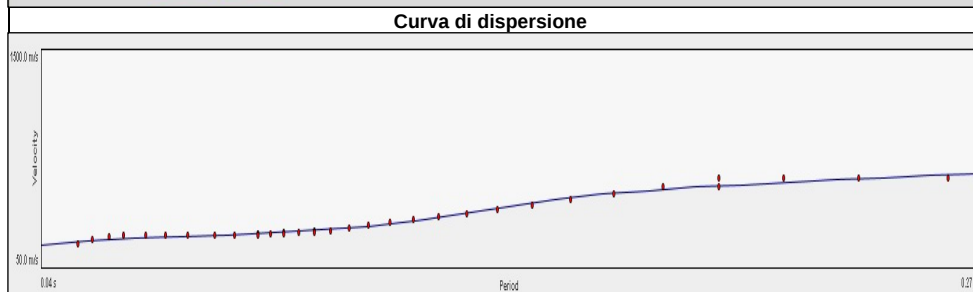
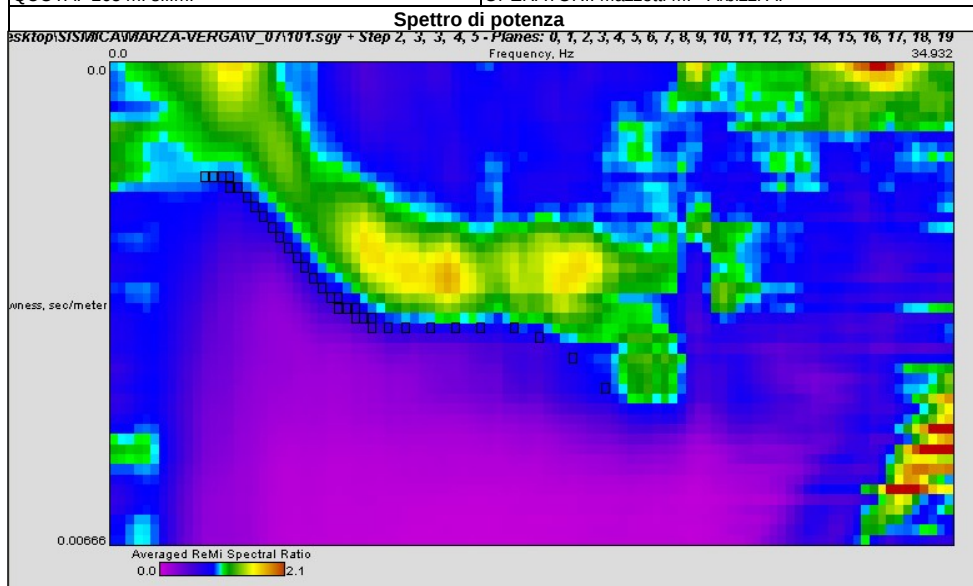
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R06
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 290 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



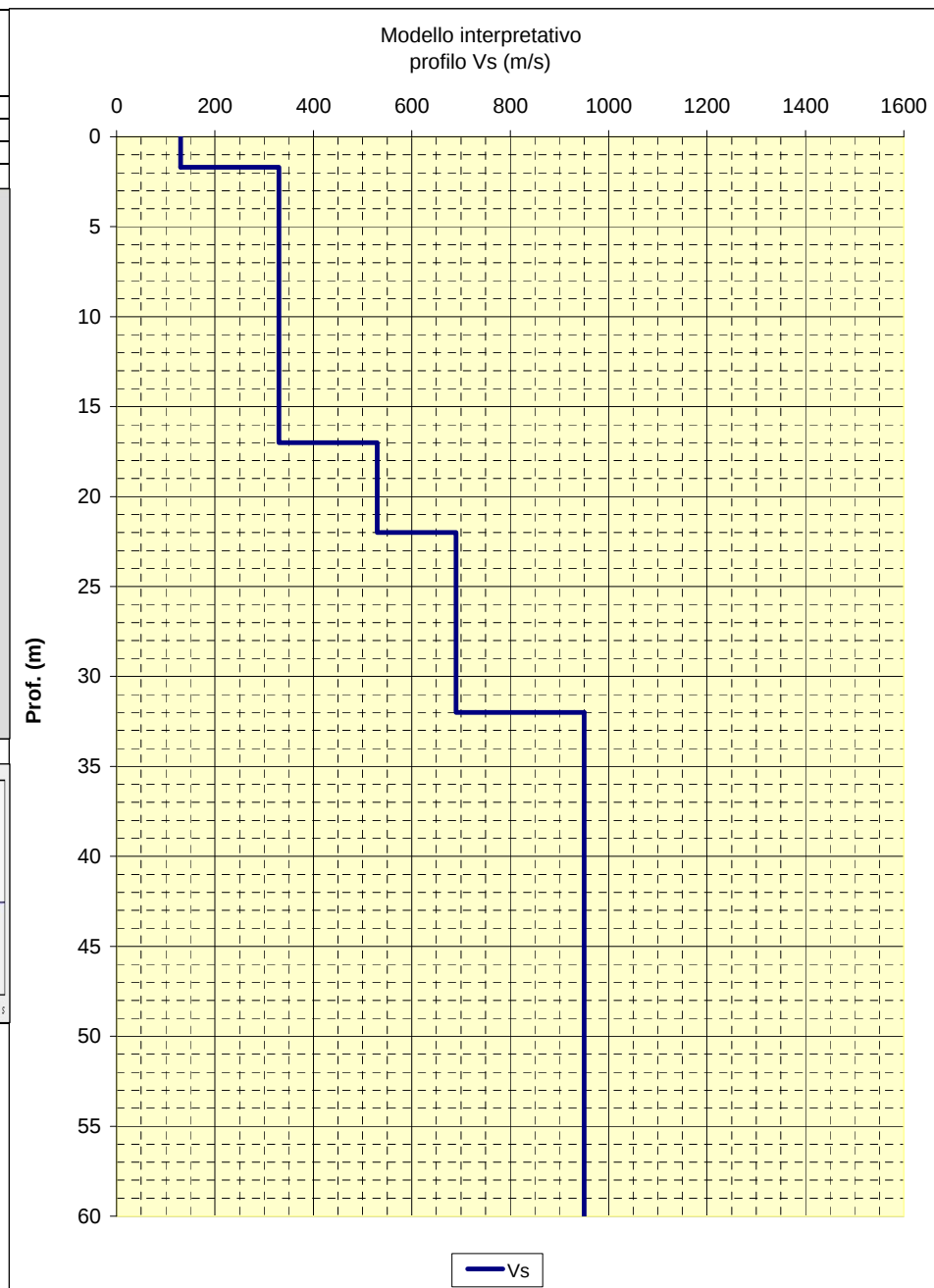
Note:	Modello interpretativo			
	Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
	1	0	1.5	110
	2	1.5	7	220
	3	7	14	700
	4	14	33	830
	5	33	INF	760
	6			
	7			
	8			
	9			
	10			



CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R07
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 265 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



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



CENTROGEO

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

INDAGINE MASW/Re.Mi.

R09

LOCALITA': Vergato (BO)

DATA: 10-10-2013

QUOTA: 195 m. s.l.m.

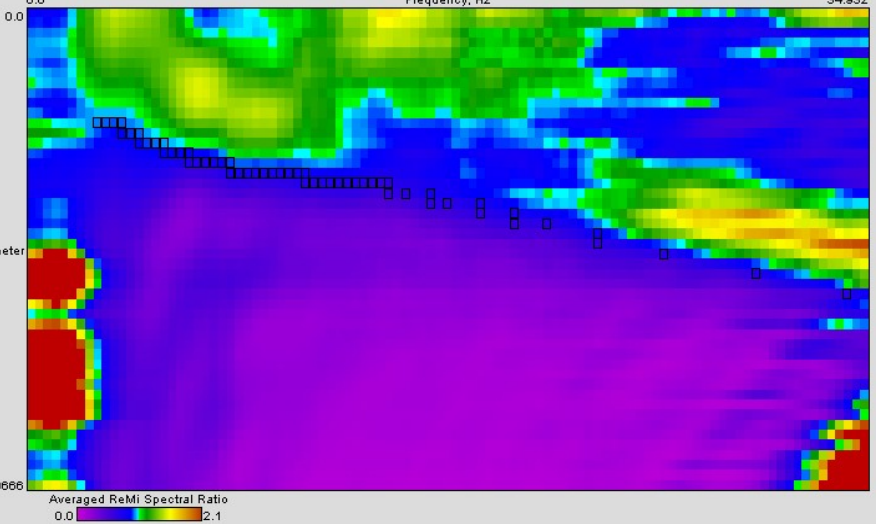
COMMITTENTE: Amm. Comunale

CANTIERE: Vergato

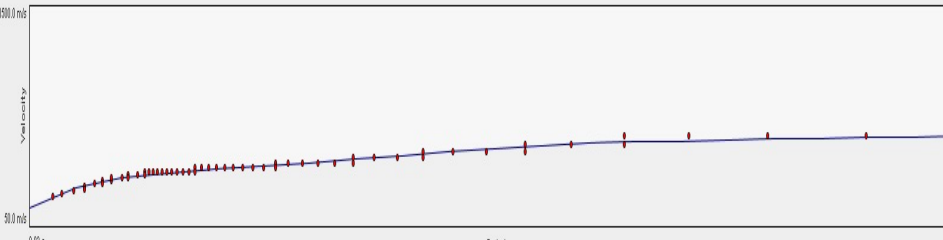
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMICA\MARZA-VERGATO_09\101.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



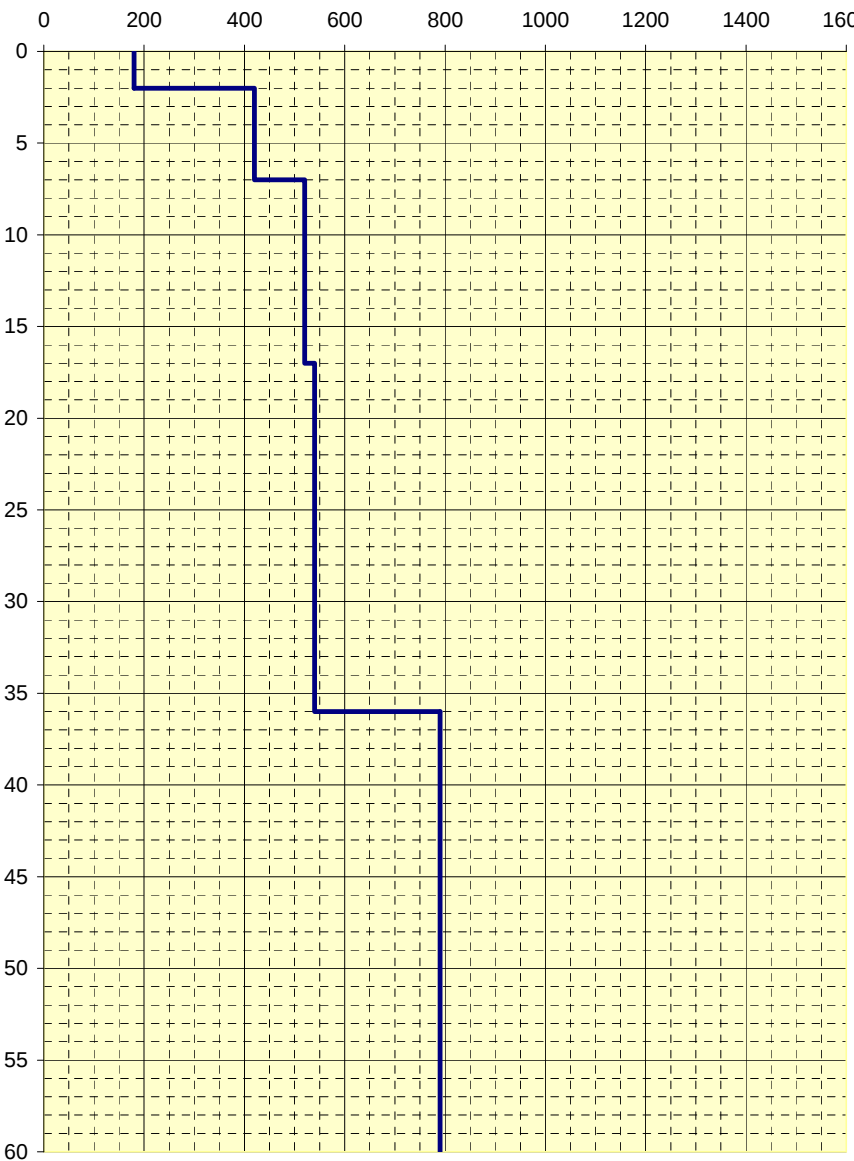
Curva di dispersione



Note:

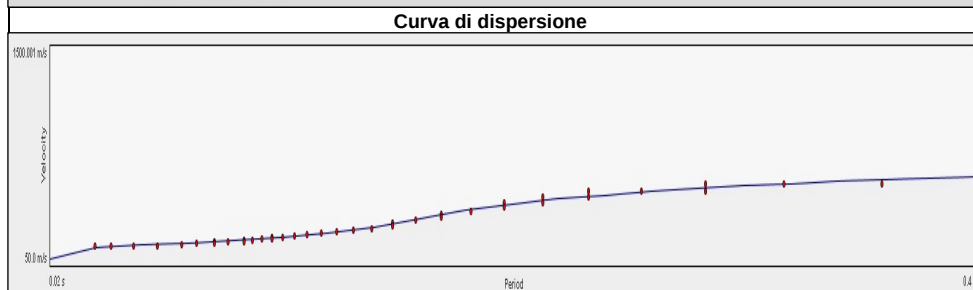
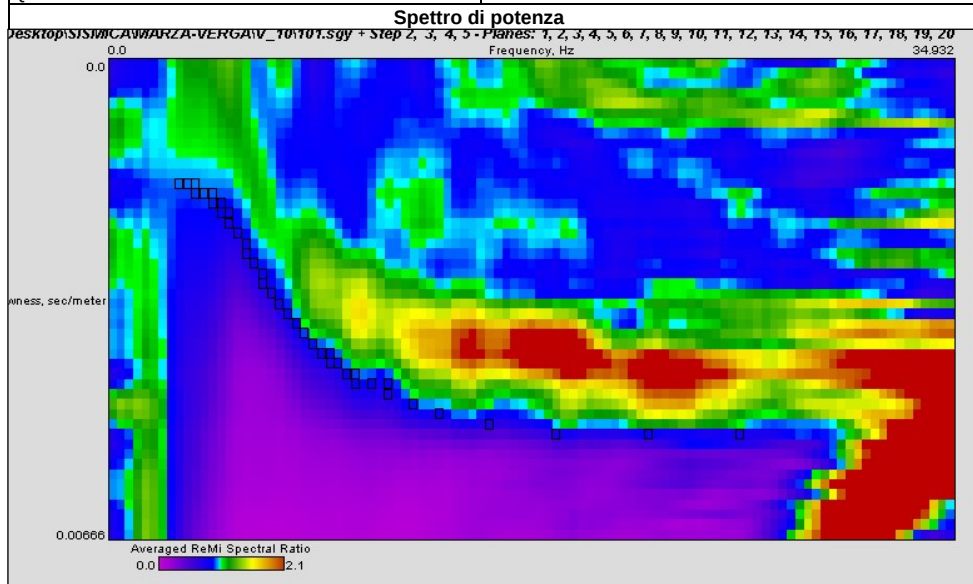
Modello interpretativo				
Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)	
1	0	2	2	180
2	2	7	5	420
3	7	17	10	520
4	17	36	19	540
5	36	INF	INF	790
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)

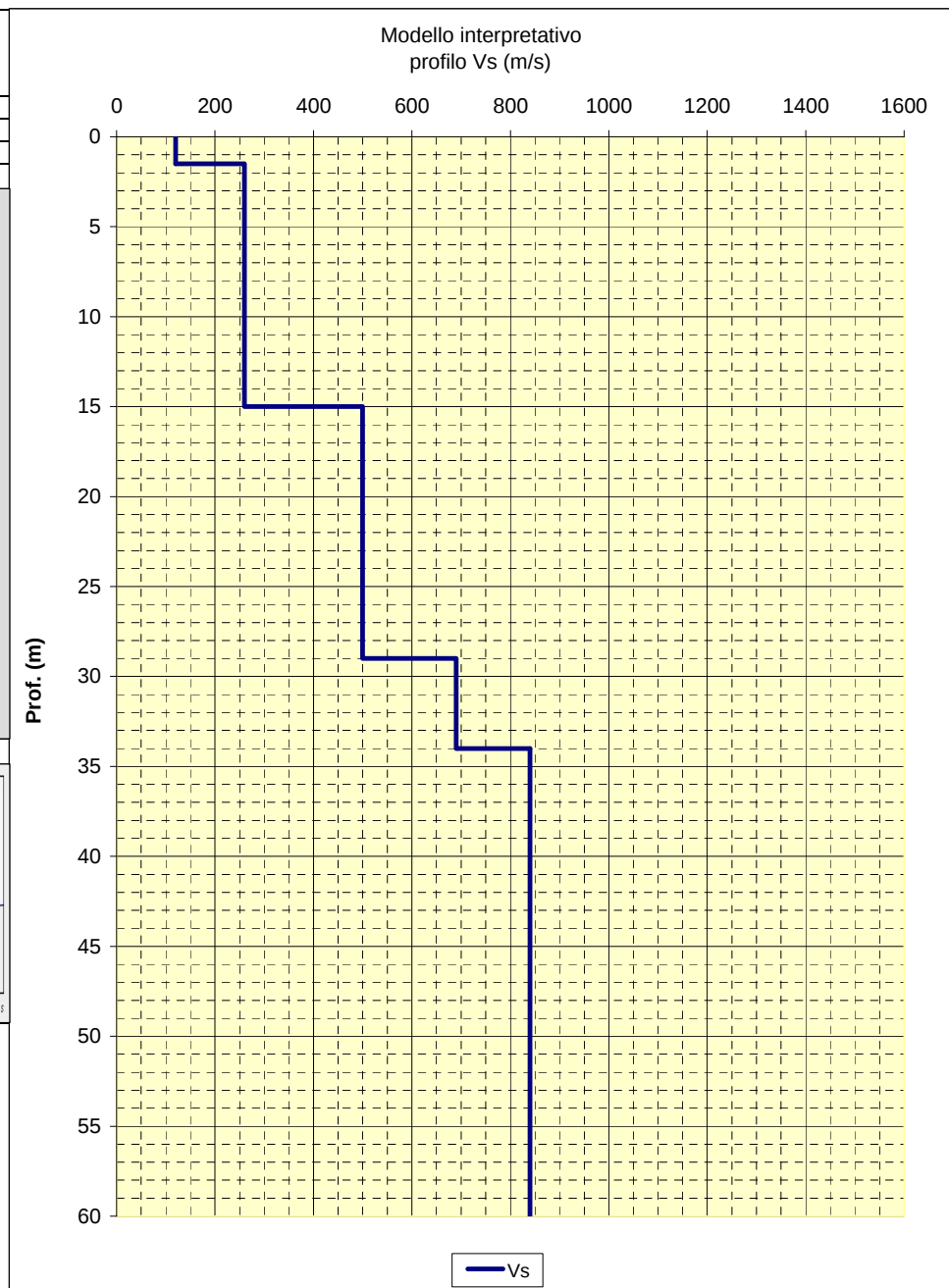


— Vs

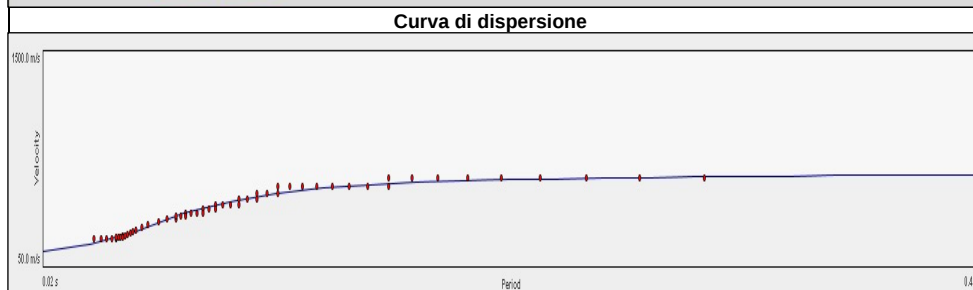
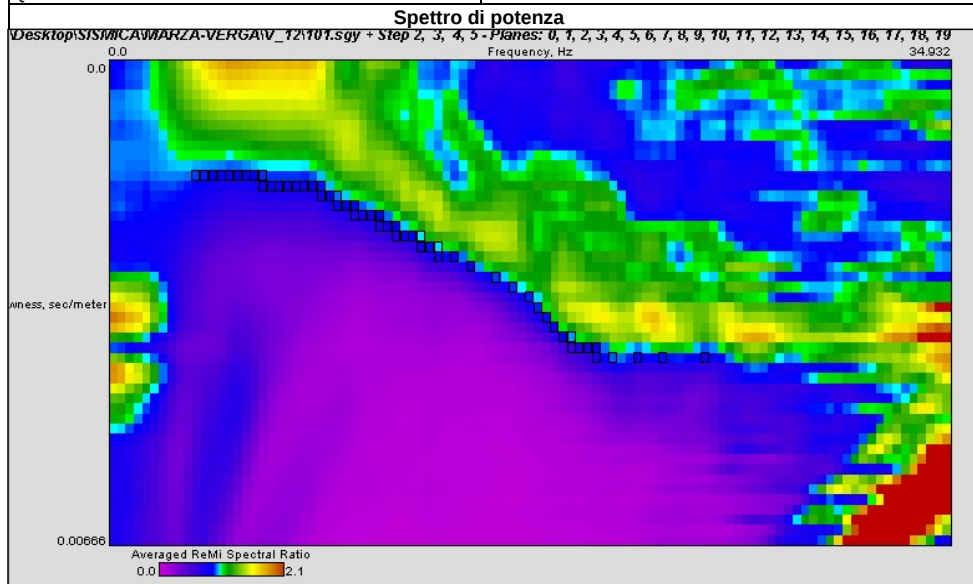
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R10
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



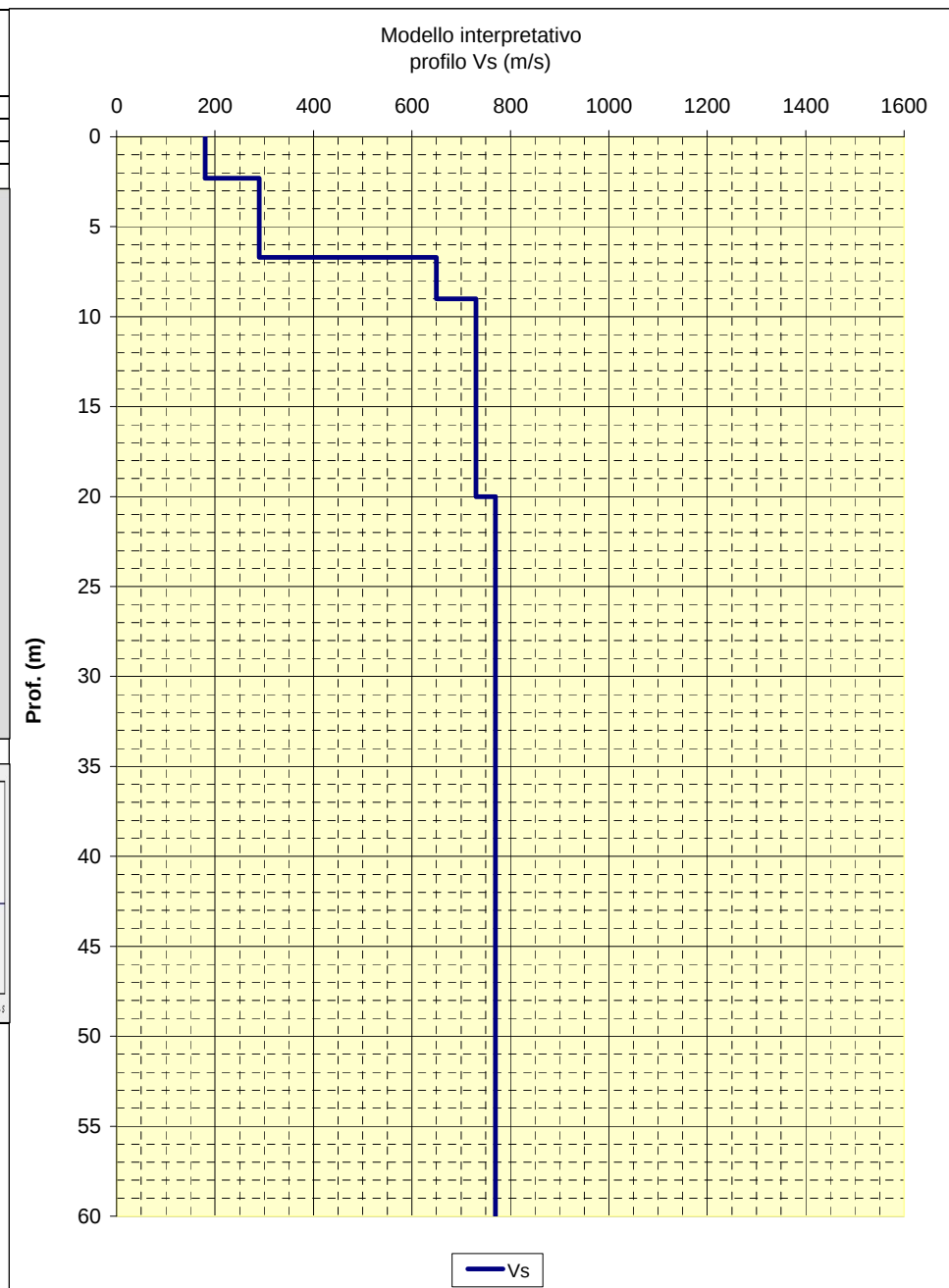
Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	1.5	1.5	120
	2	1.5	15	13.5	260
	3	15	29	14	500
	4	29	34	5	690
	5	34	INF	INF	840
	6				
	7				
	8				
	9				
	10				

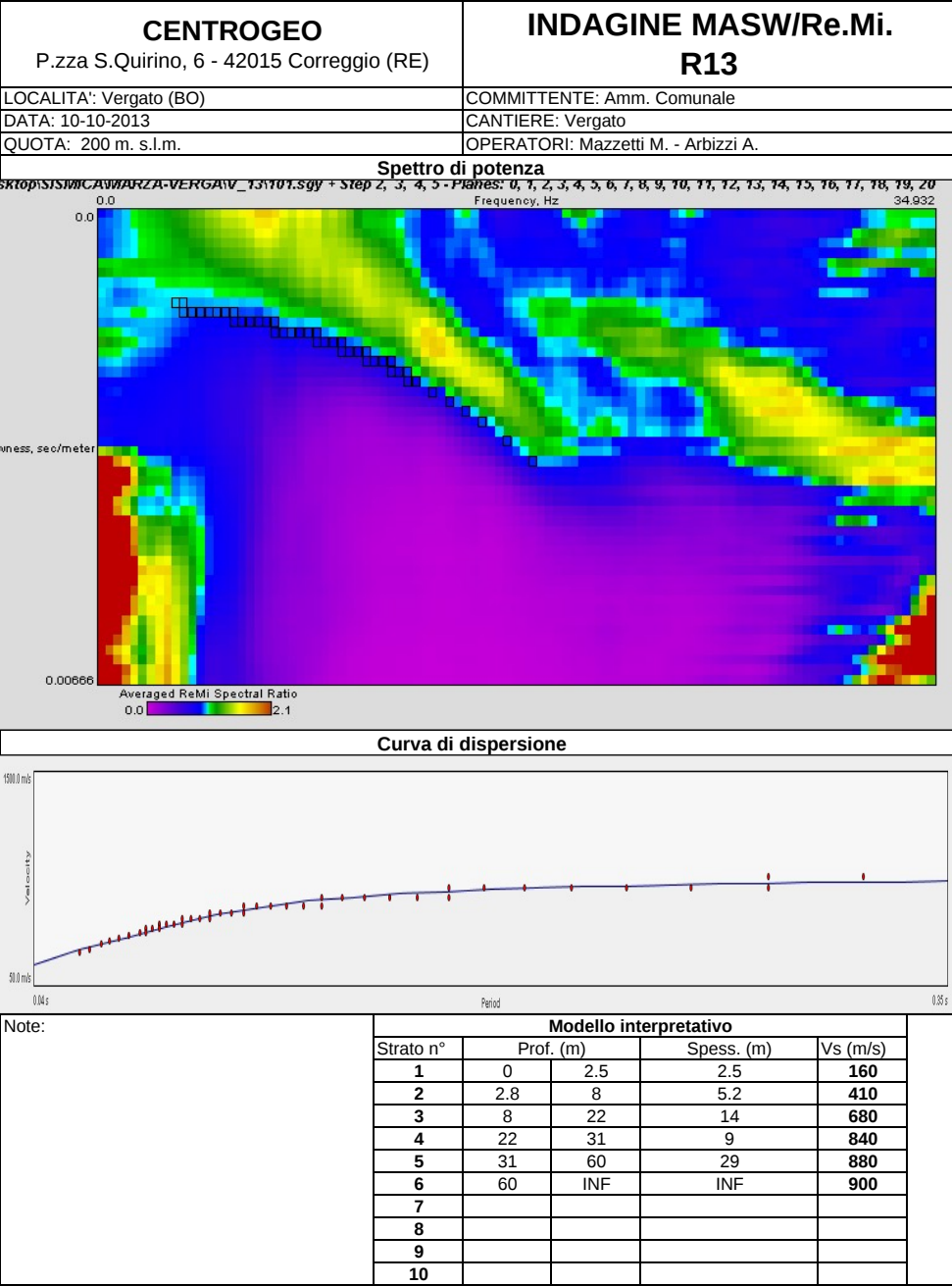


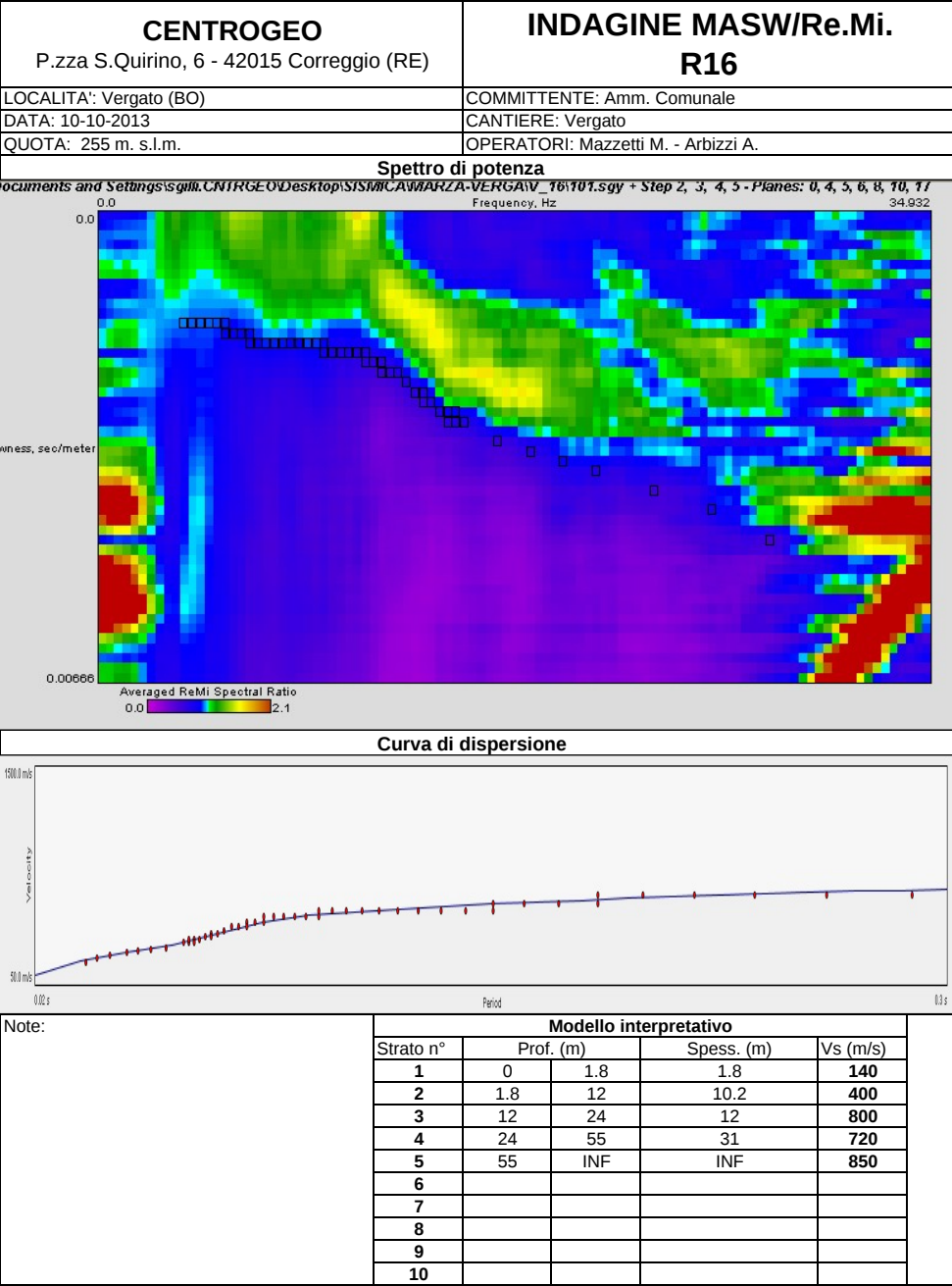
CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R12
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.



Note:	Modello interpretativo				
	Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
	1	0	2.3	2.3	180
	2	2.3	6.7	4.4	290
	3	6.7	9	2.3	650
	4	9	20	11	730
	5	20	INF	INF	770
	6				
	7				
	8				
	9				
	10				







INDAGINE MASW/Re.Mi.
R17

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

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

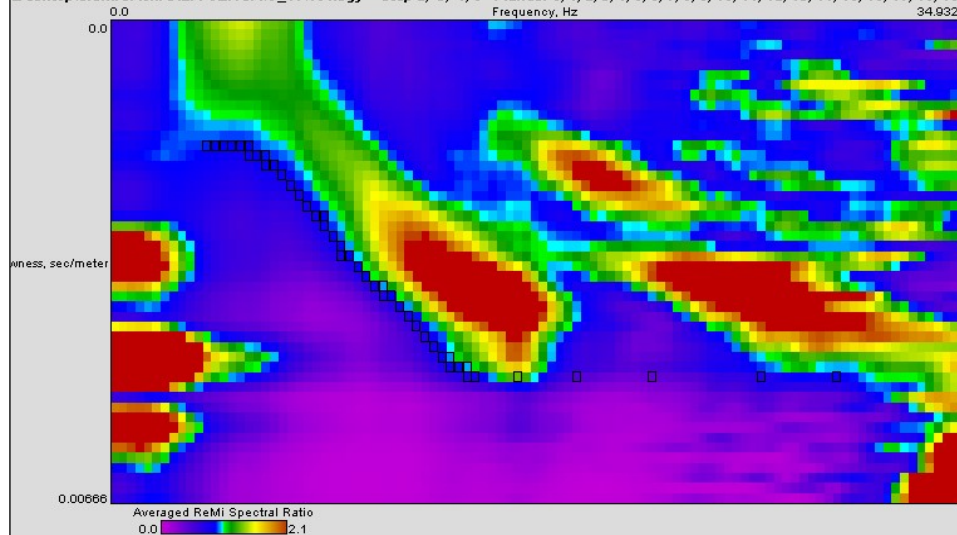
CANTIERE: Vergato

QUOTA: 235 m. s.l.m.

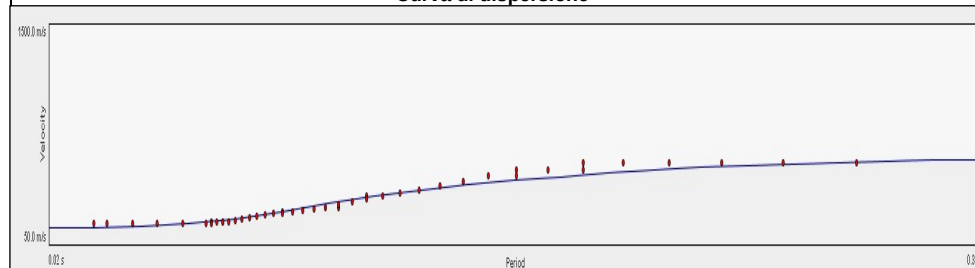
OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMI\CAMARZA-VERGA\V_11\101.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



Curva di dispersione

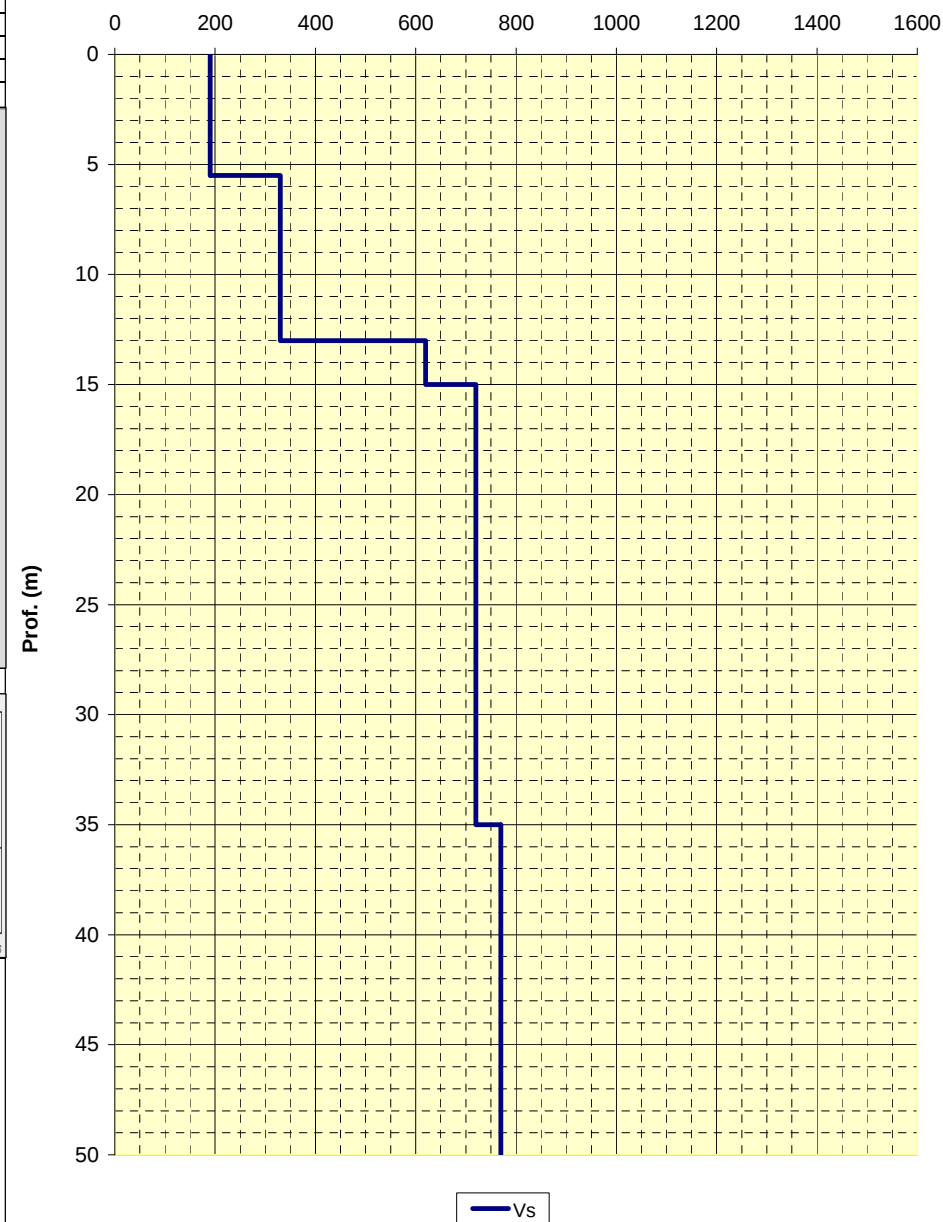


Note:

Modello interpretativo

Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	5.5	5.5	190
2	5.5	13	7.5	330
3	13	15	2	620
4	15	35	20	720
5	35	INF	INF	770
6				
7				
8				
9				
10				

Modello interpretativo
profilo Vs (m/s)



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\SISMICAMARZA-VERGATO\18\101.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

0.0

Frequency, Hz

34.932

0.0

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

150.0 m/s

50.0 m/s

0.02 s

0.4 s

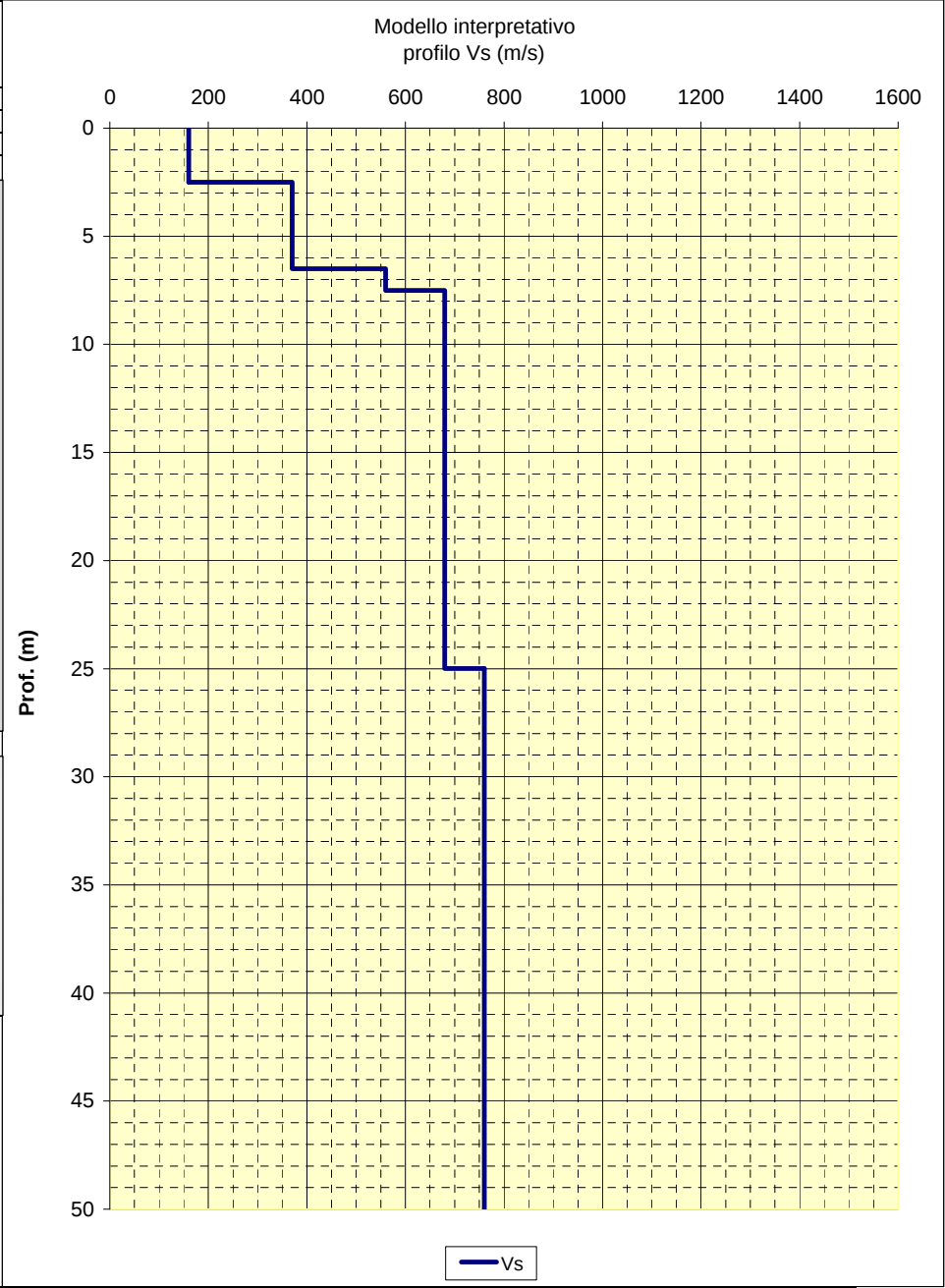
Velocity

Period

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				



CENTROGEO

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

INDAGINE MASW/Re.Mi.

R19

LOCALITA': Vergato (BO)

DATA: 14-10-2013

QUOTA: 200 m. s.l.m.

COMMITTENTE: Amm. Comunale

CANTIERE: Vergato

OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Documents and Settings\sgm\CENTROGEO\Desktop\SISMICA\MARZA-VERGATO_19101.sgy + Step 2, 3, 4, 5 - Planes: 0, 1, 2, 4, 5, 6, 7, 8, 9

0.0

Frequency, Hz

34.932

0.0

0.00666

Averaged ReMi Spectral Ratio

0.0

2.1

Curva di dispersione

1500.0 m/s

500.0 m/s

0.02 s

0.3 s

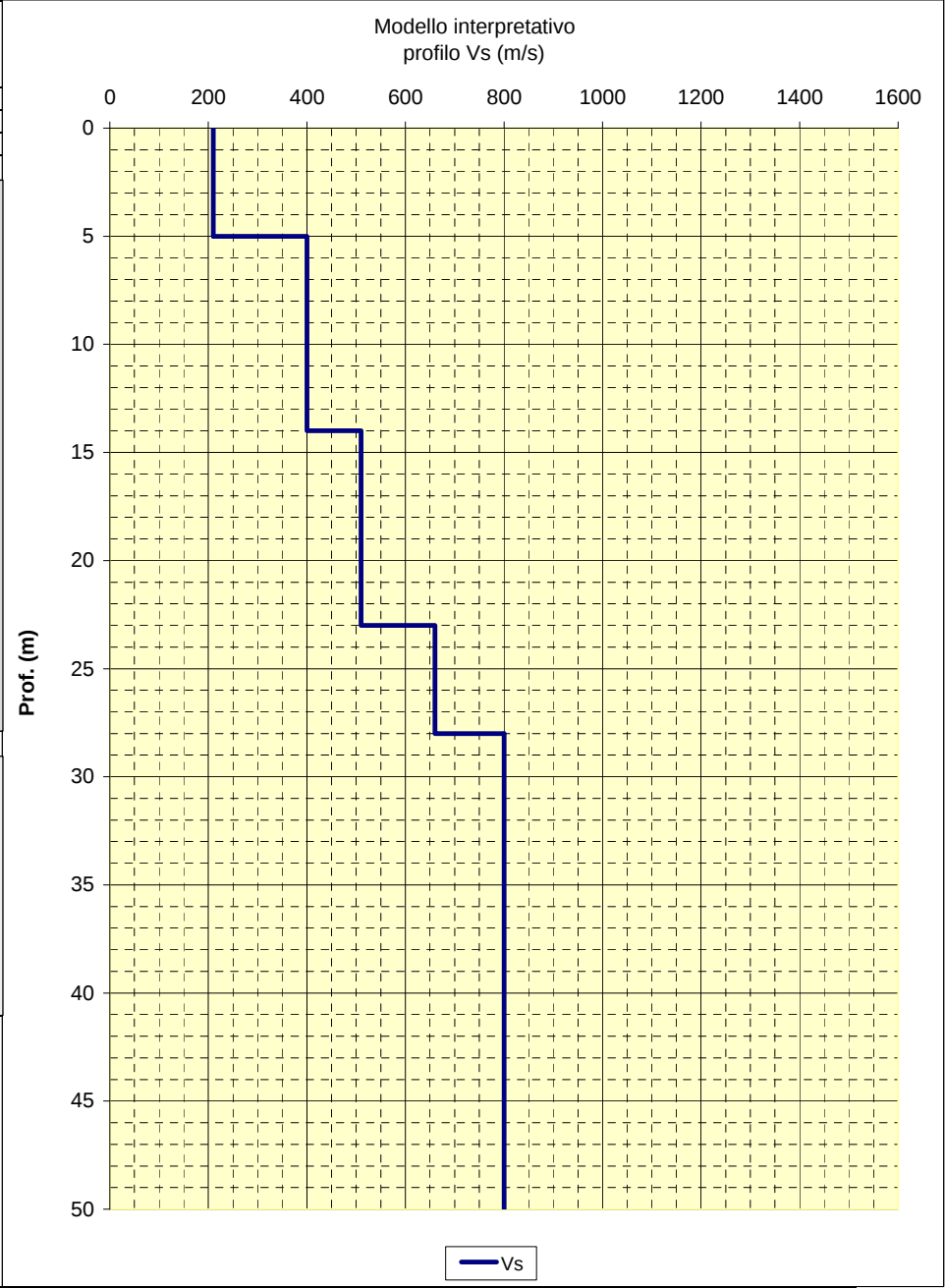
Velocity

Period

Note:

Modello interpretativo

Strato n°	Prof. (m)	Spess. (m)	Vs (m/s)
1	0	5	210
2	5	14	400
3	14	23	510
4	23	28	660
5	28	INF	800
6			
7			
8			
9			
10			



CENTROGEO P.zza S. Quirino, 6 - 42015 Correggio (RE)	INDAGINE MASW/Re.Mi. R20
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Vergato
QUOTA: 200 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

Spettro di potenza

Desktop\SISMICA\MARZA-VERGATO\20101014\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

34.932

w/m²

0.00666

Averaged ReMi Spectral Ratio
0.0 2.1

Curva di dispersione

Vs (m/s)

150.0

50.0

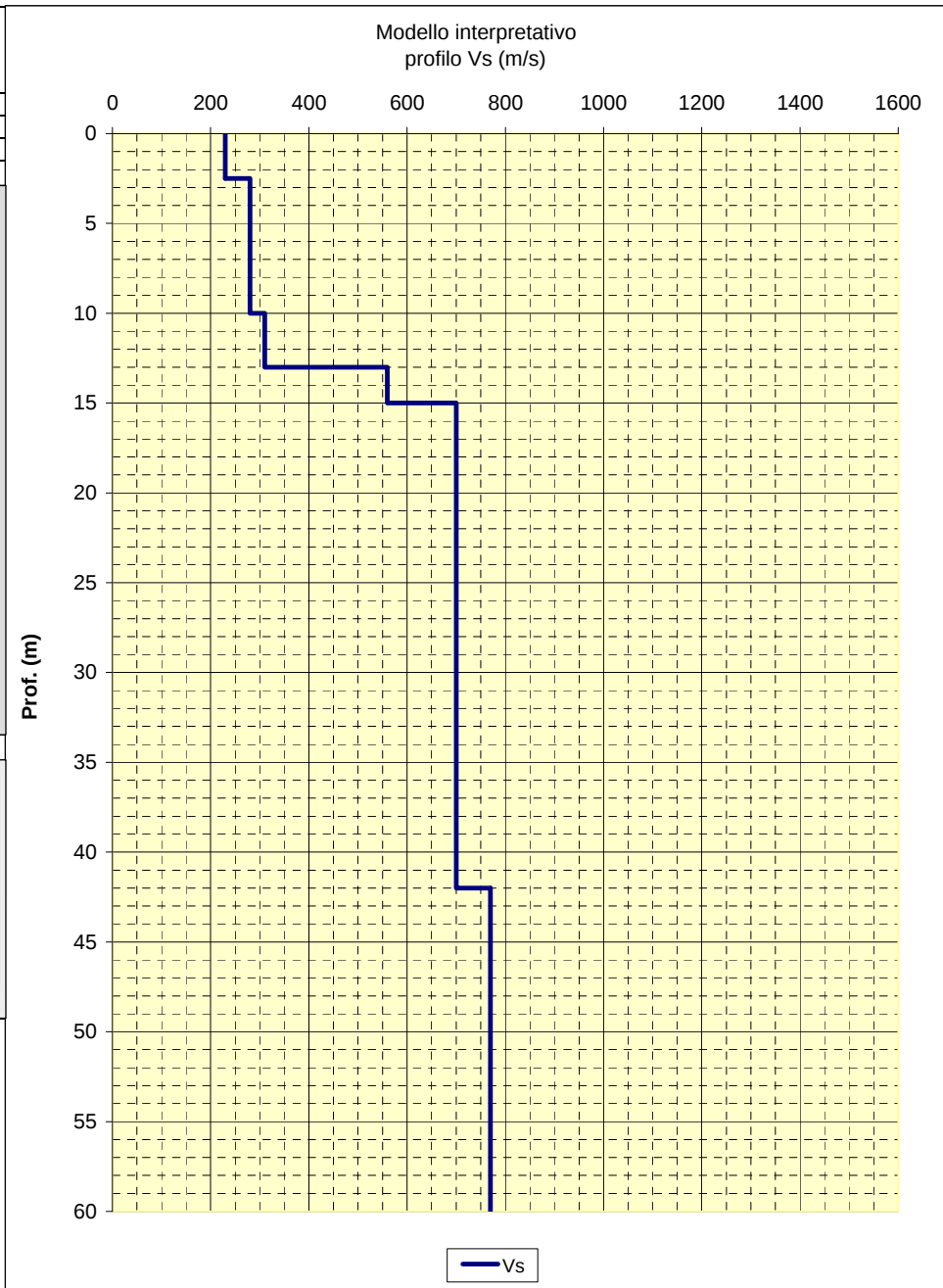
0.02 s

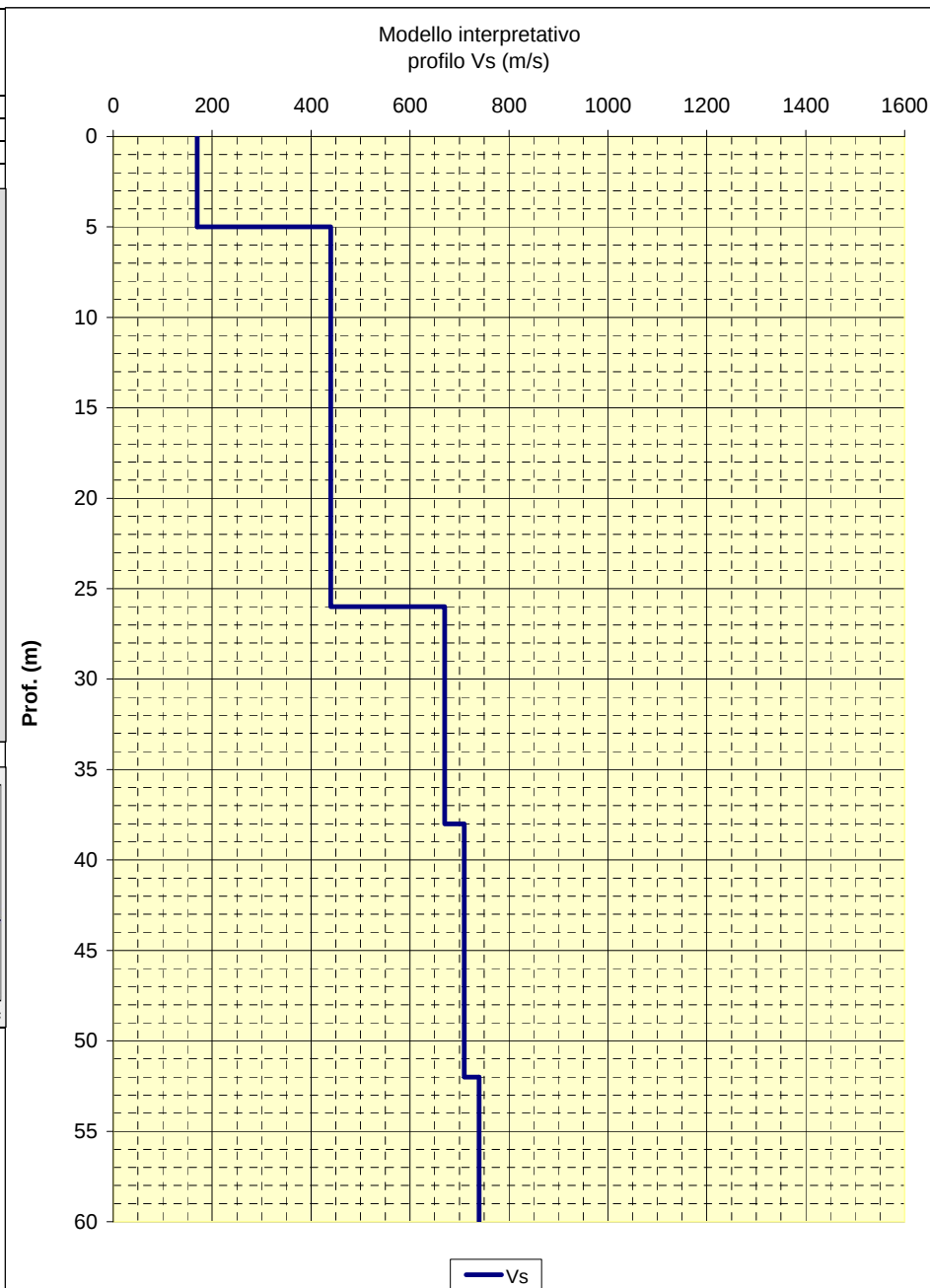
Period

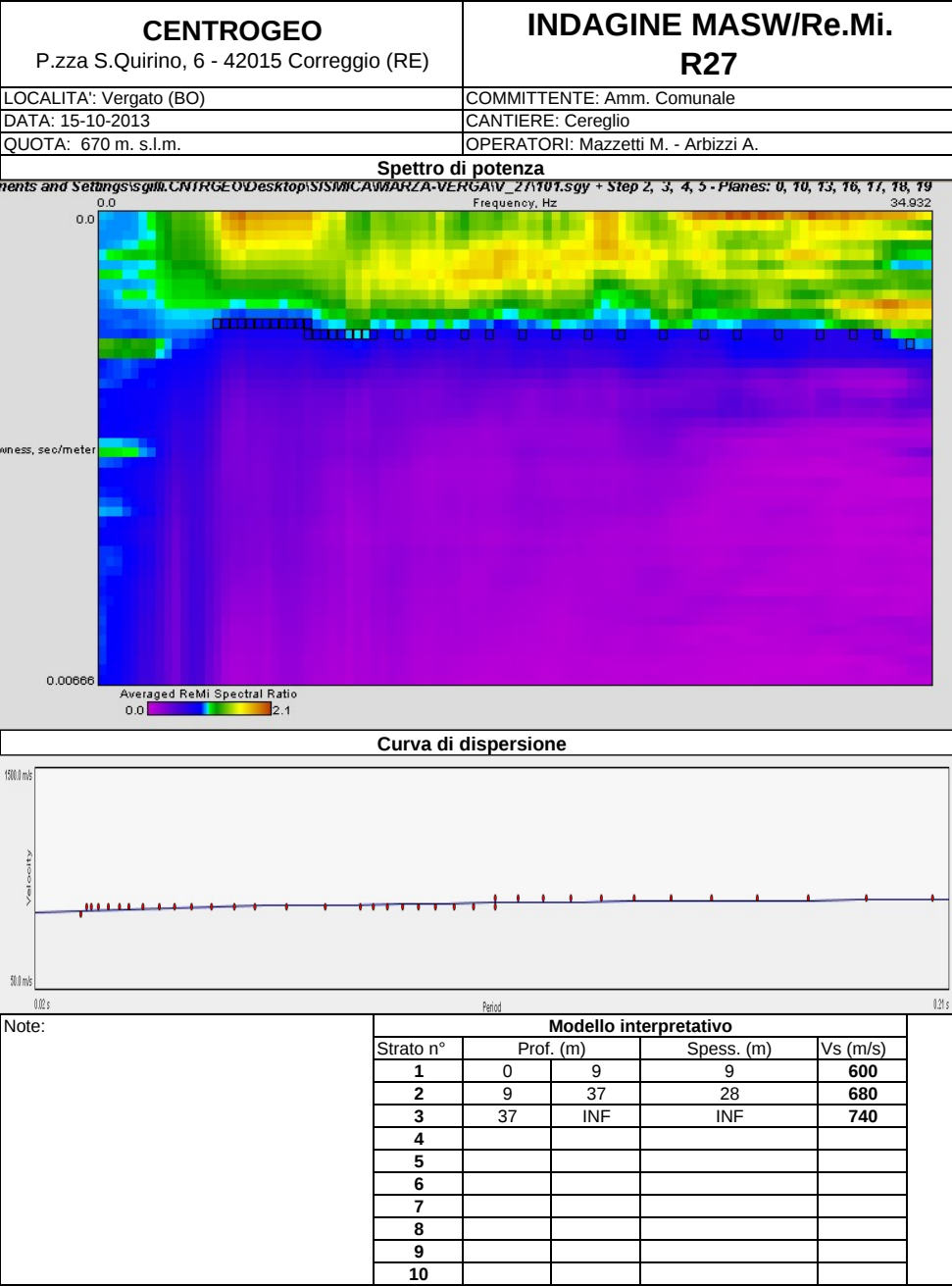
0.25 s

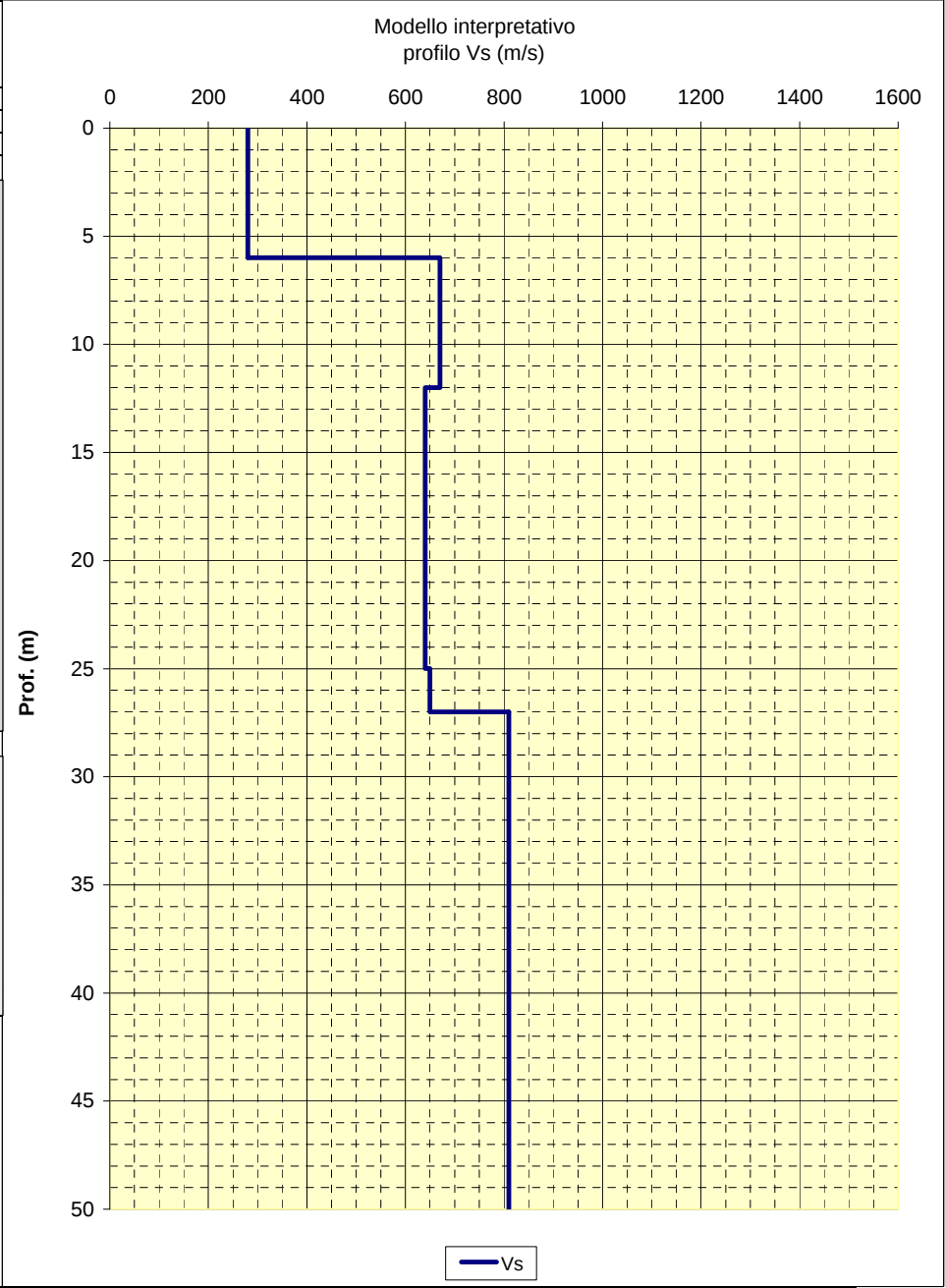
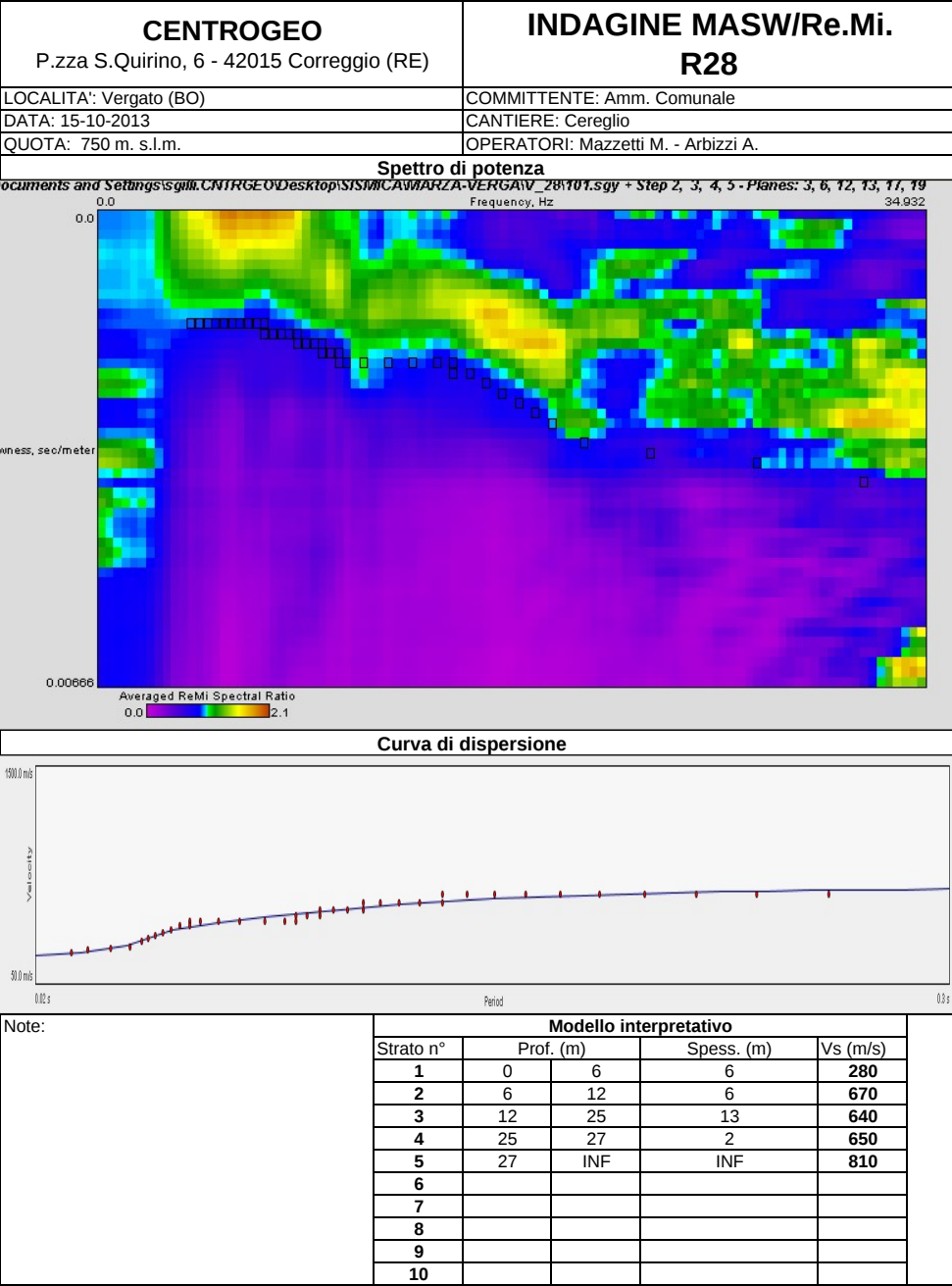
Note:

Modello interpretativo				
Strato n°	Prof. (m)		Spess. (m)	Vs (m/s)
1	0	2.5	2.5	230
2	2.5	10	7.5	280
3	10	13	3	310
4	13	15	2	560
5	15	42	27	700
6	42	INF	INF	770
7				
8				
9				
10				









INDAGINI GEOFISICHE HVSR

STUDIO GEOLOGICO CENTROGEO

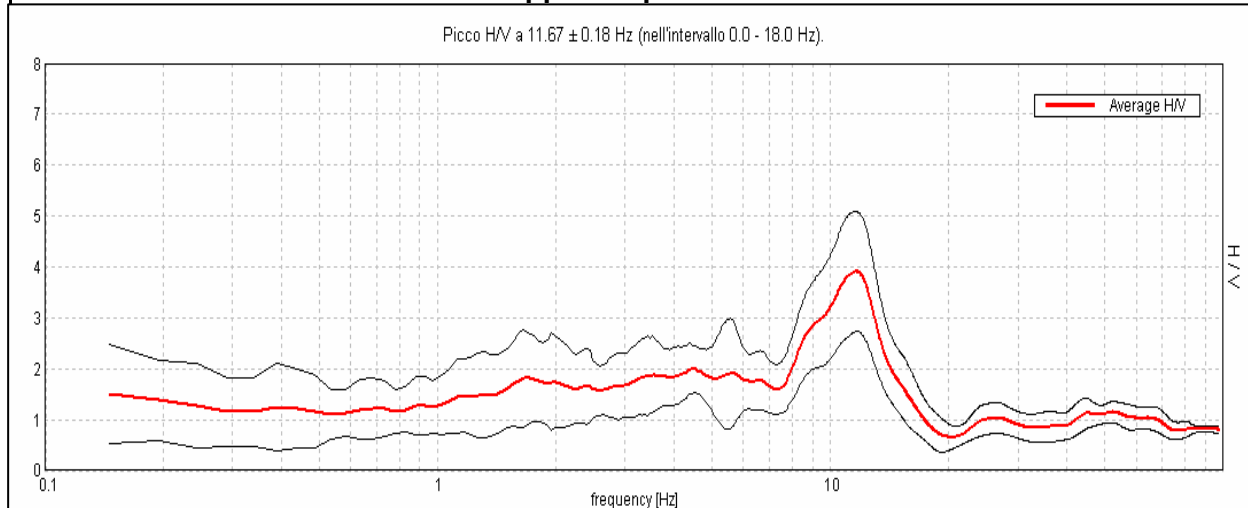
42015 Correggio (RE) - Piazza S. Quirino, 6 - tel 0522/641001 - Fax: 632162

STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H01
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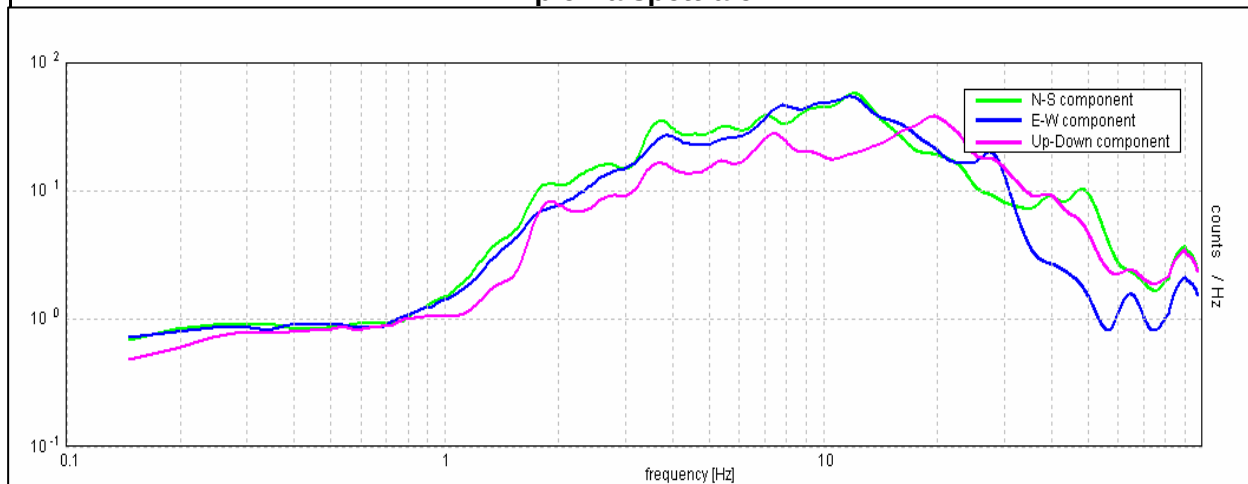
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 285 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

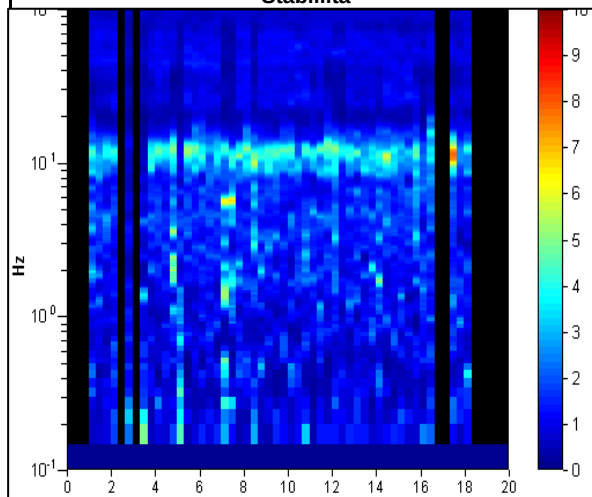
Rapporto spettrale



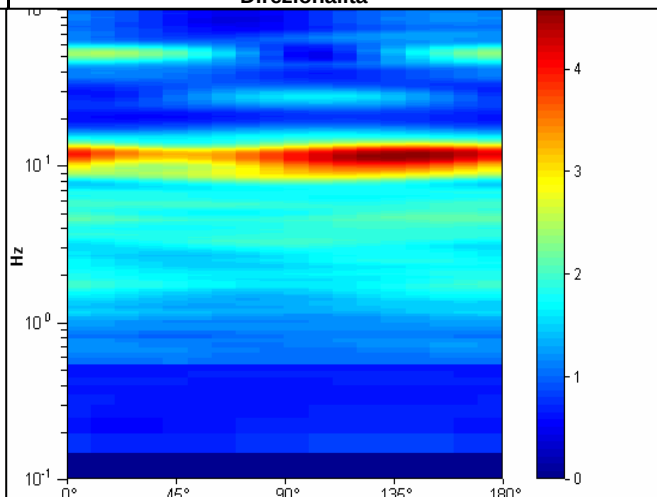
Ampiezza spettrale



Stabilità



Direzionalità

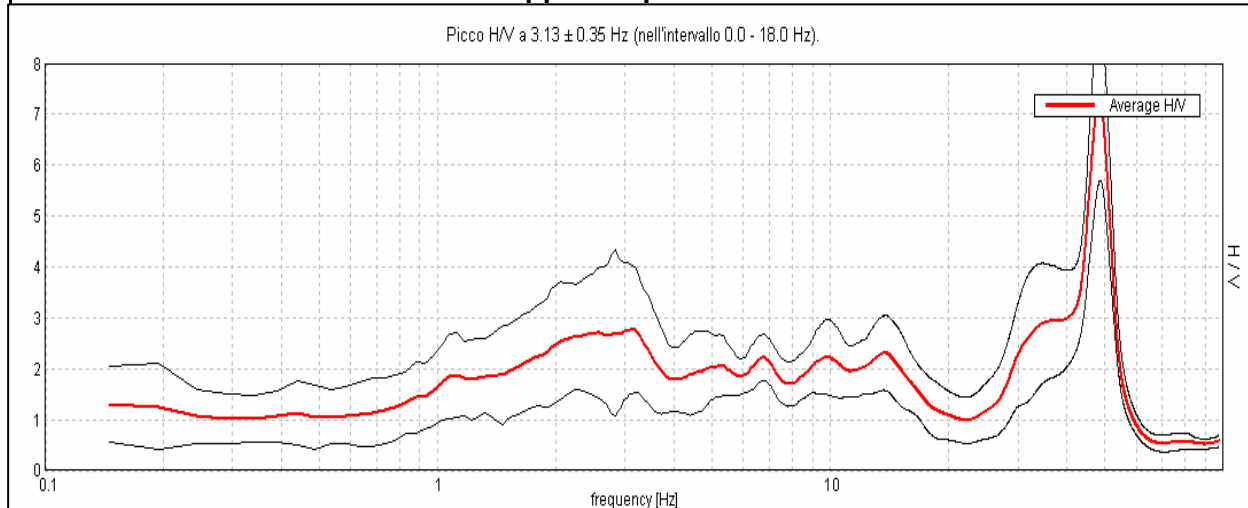


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H02
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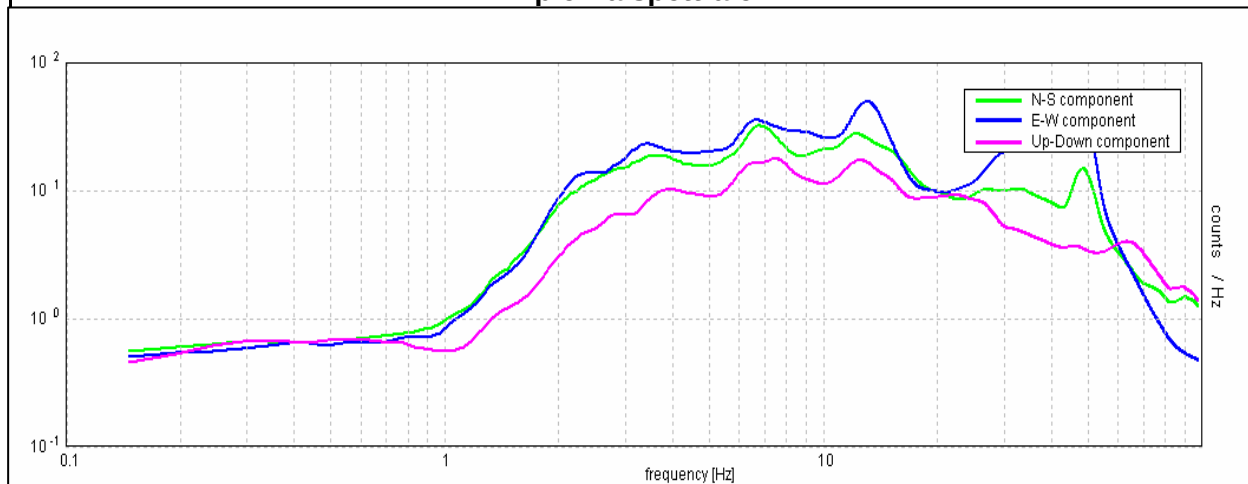
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 275 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

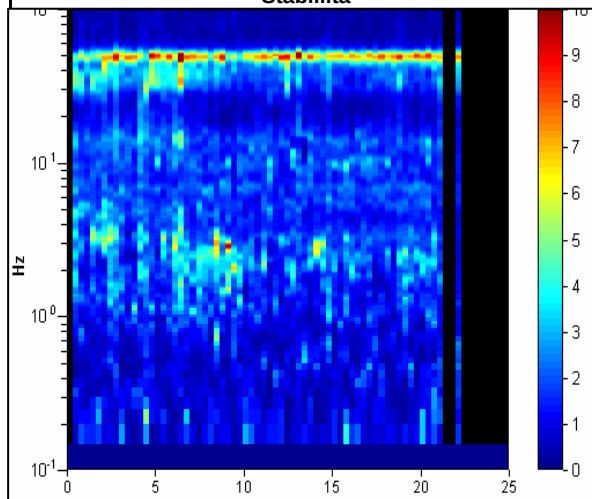
Rapporto spettrale



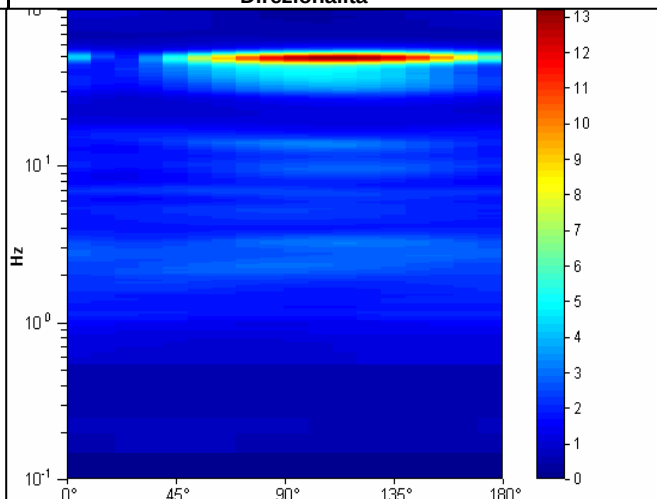
Ampiezza spettrale



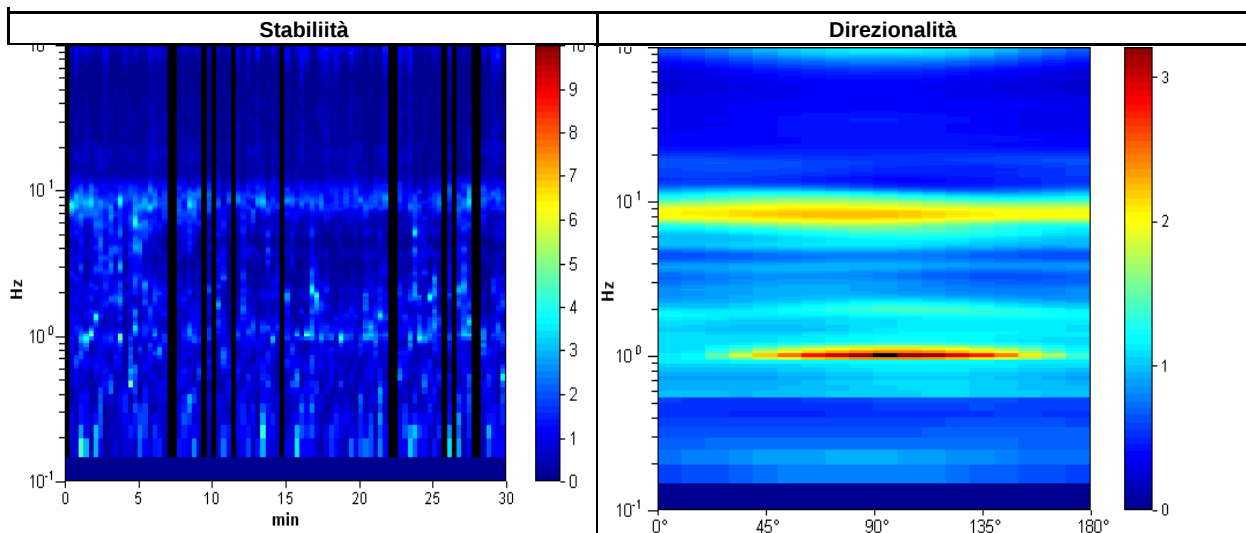
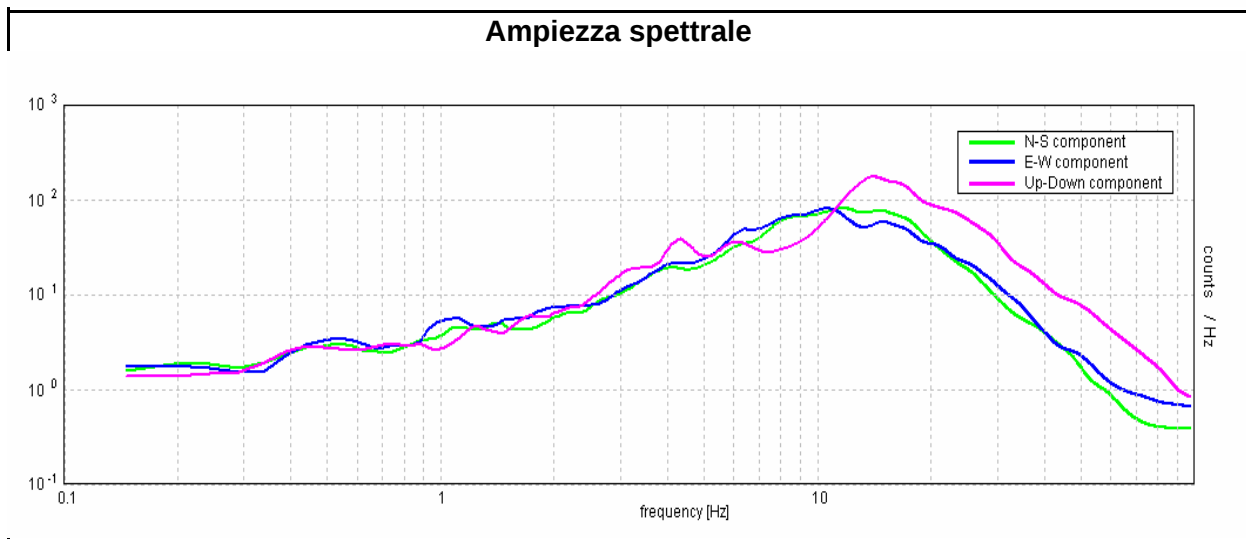
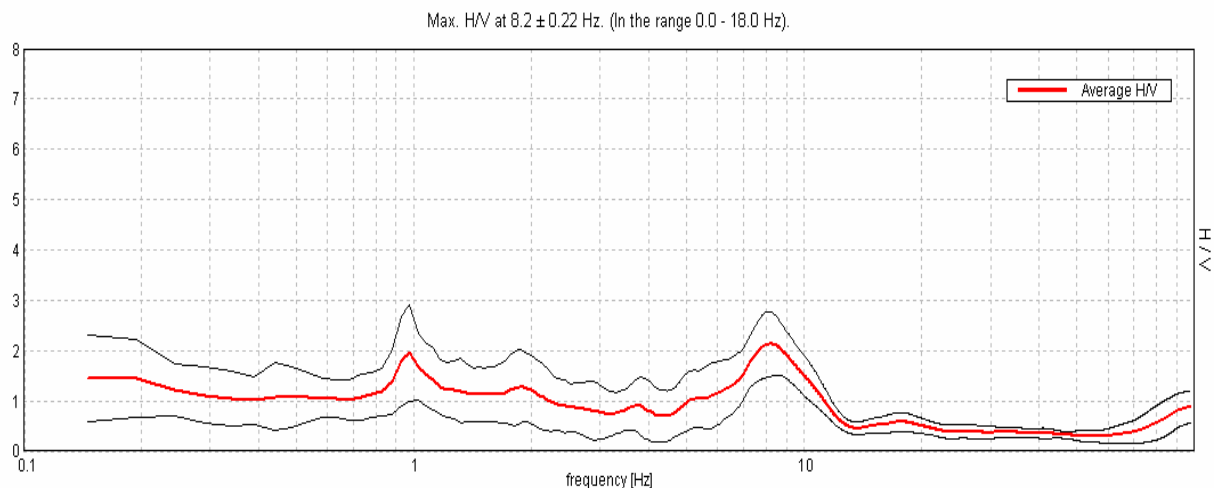
Stabilità



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		

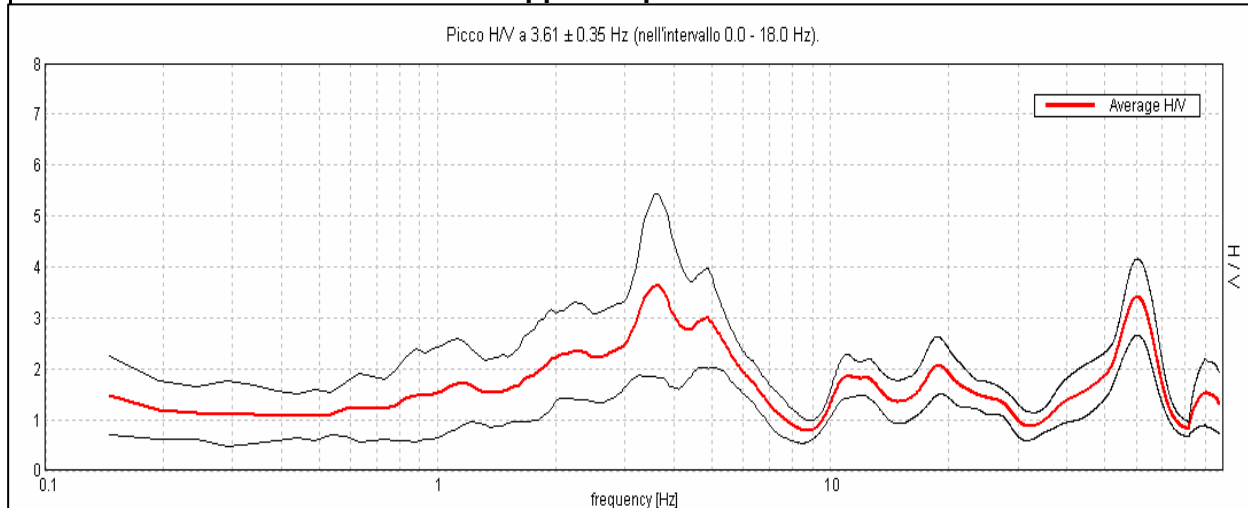


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H04
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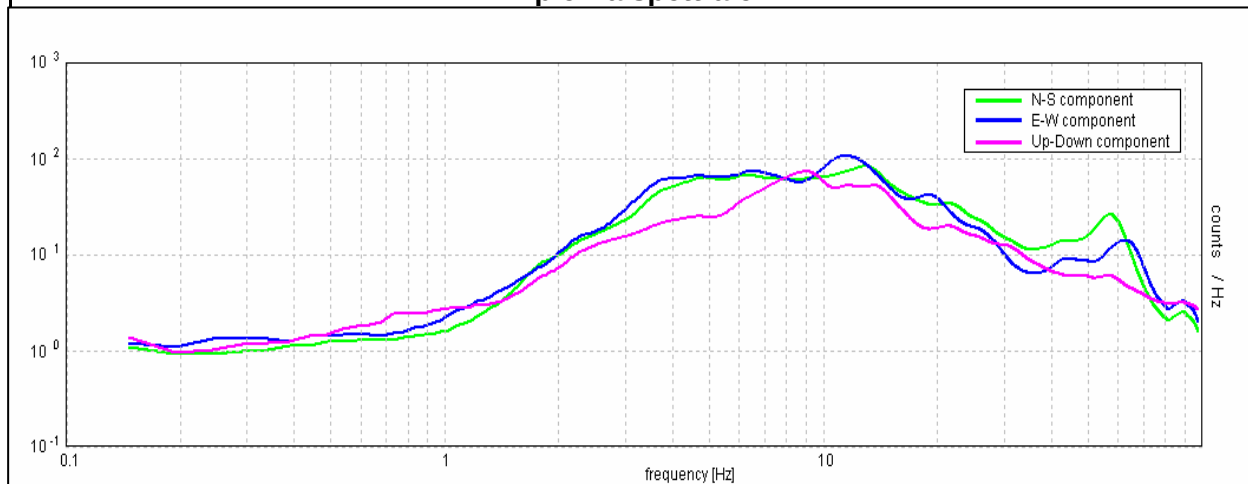
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 260 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

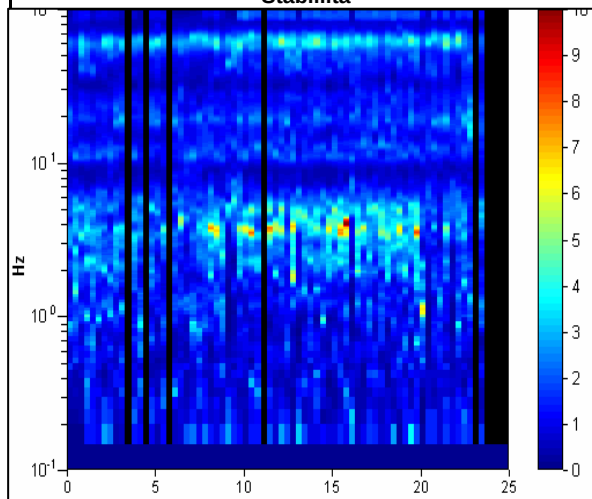
Rapporto spettrale



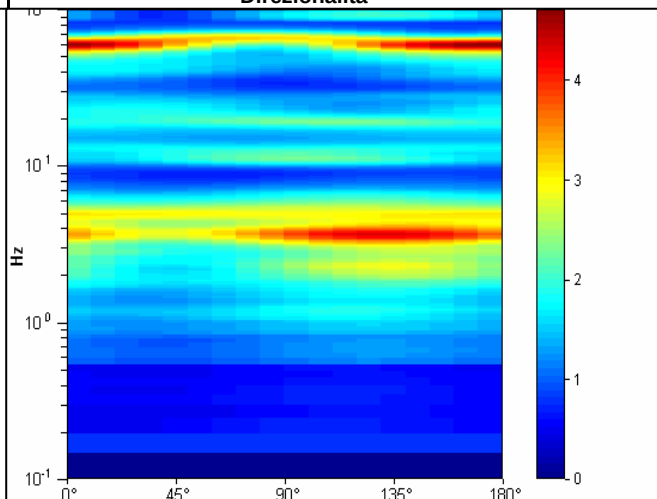
Ampiezza spettrale



Stabilità



Direzionalità

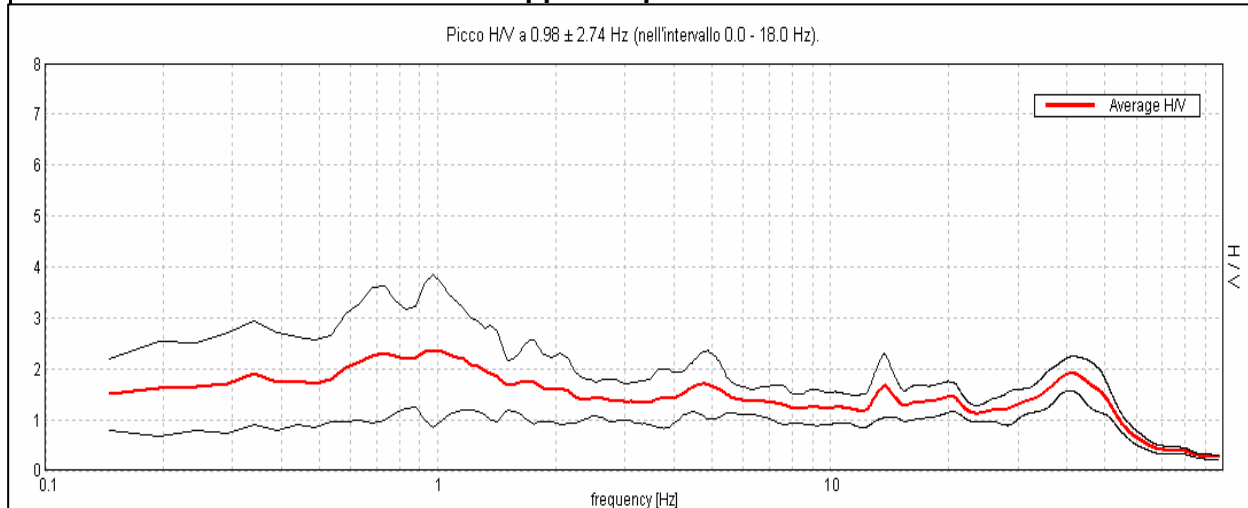


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H05
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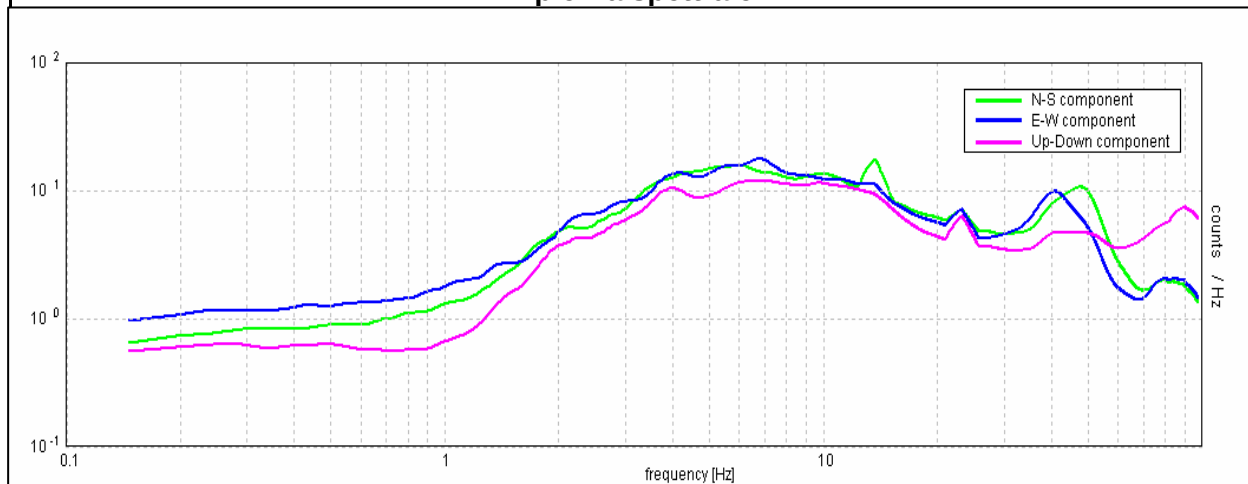
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 240 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

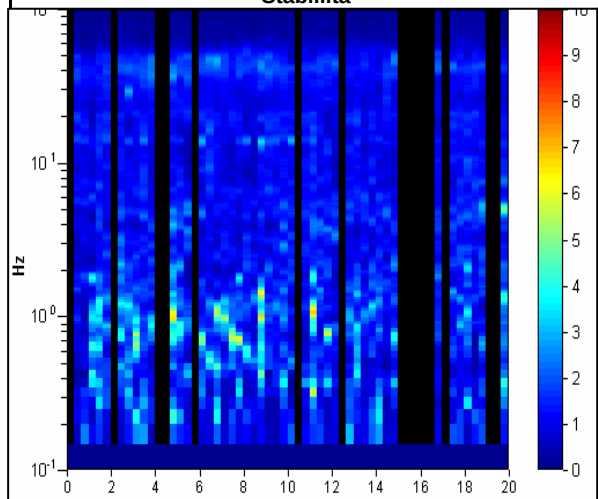
Rapporto spettrale



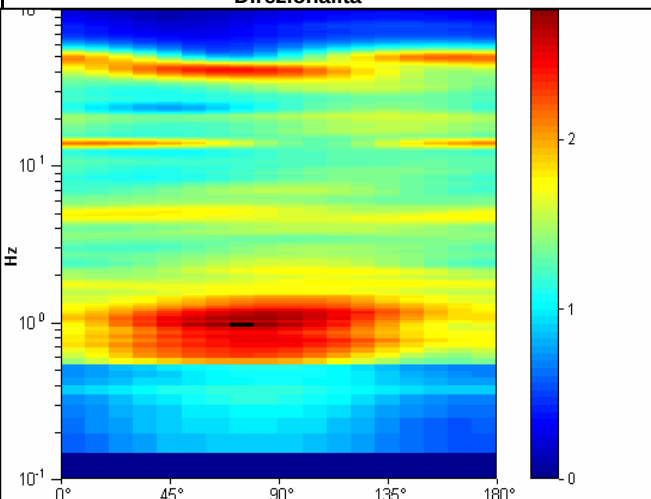
Ampiezza spettrale



Stabilità



Direzionalità

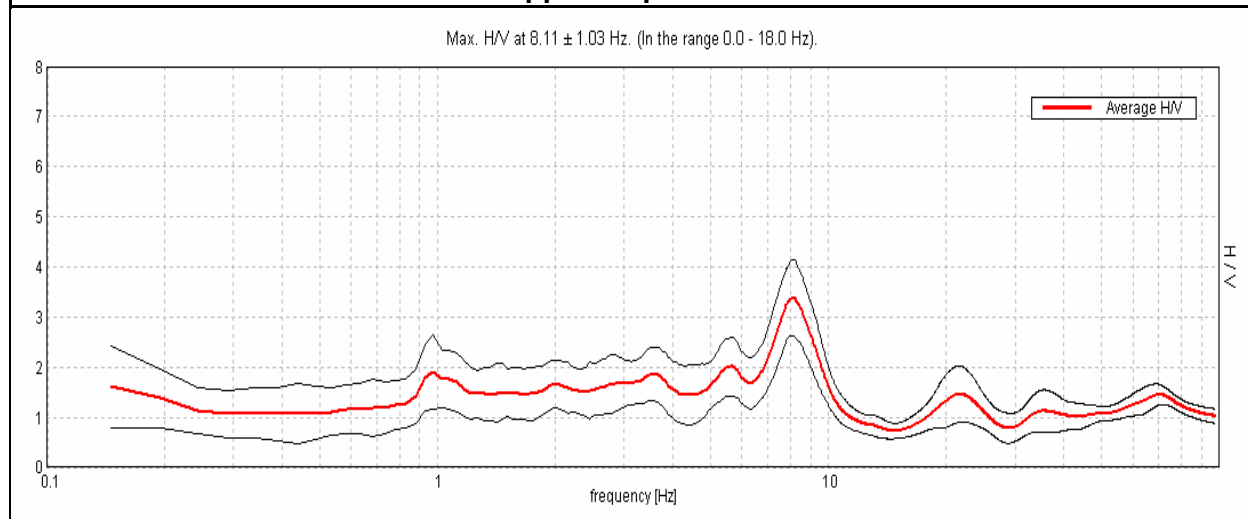


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H06
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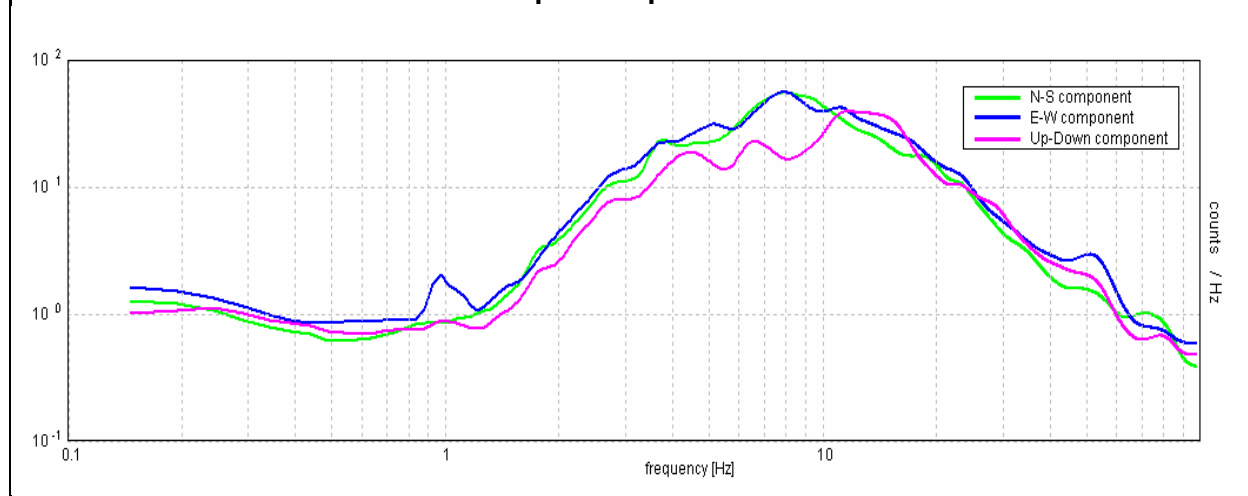
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 290 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

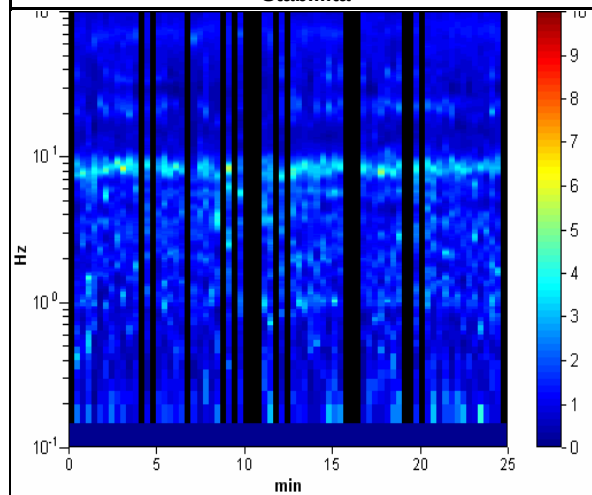
Rapporto spettrale



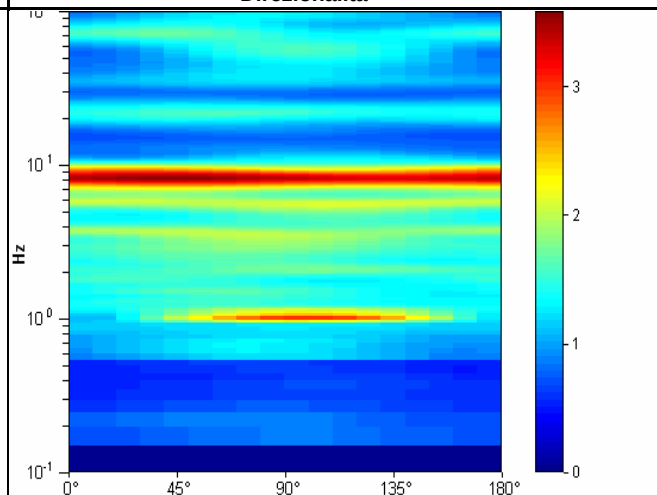
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H07

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 09-10-2013

CANTIERE: Riola

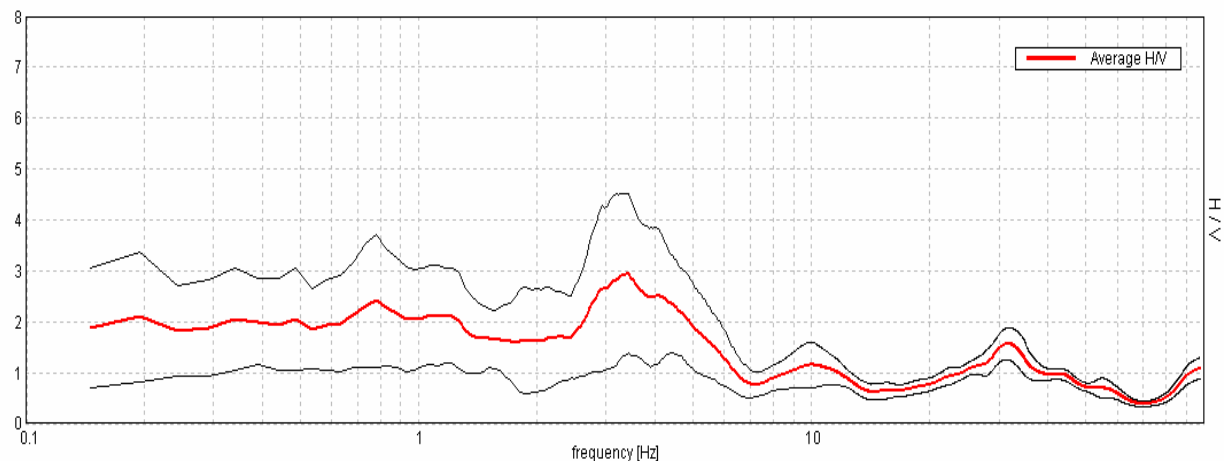
QUOTA: 265 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

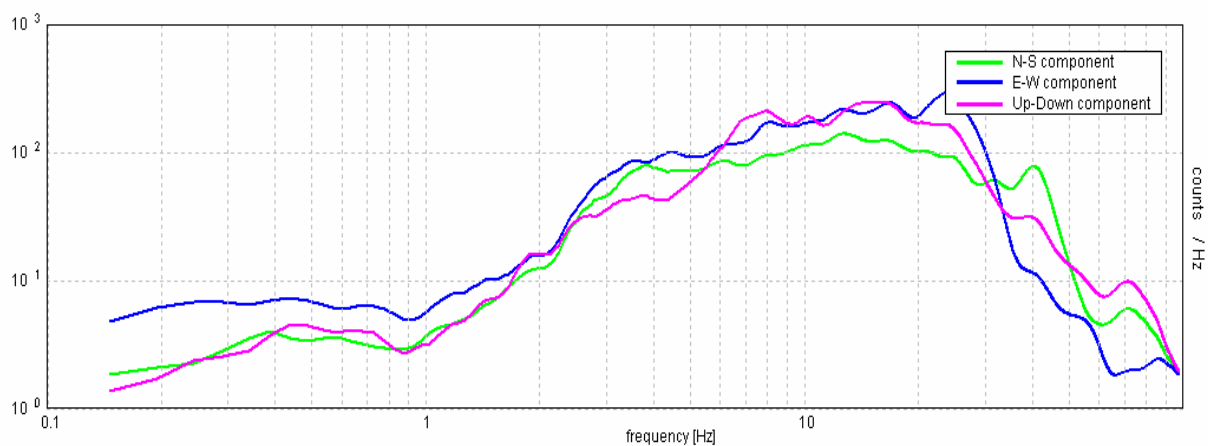
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

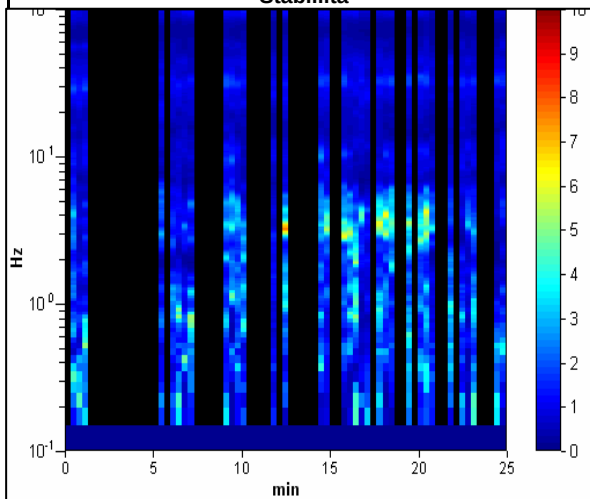
Picco H/V a 3.42 ± 1.94 Hz (nell'intervallo 0.0 - 18.0 Hz).



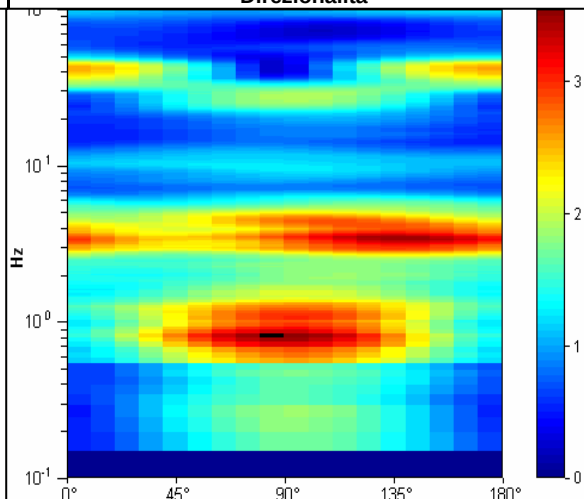
Ampiezza spettrale



Stabilità



Direzionalità

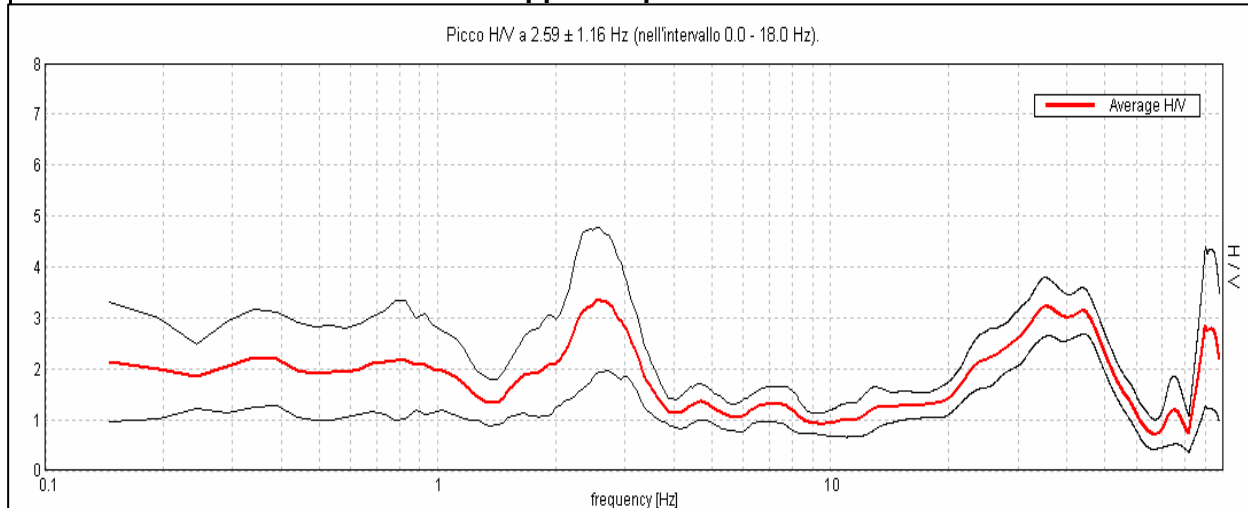


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H08
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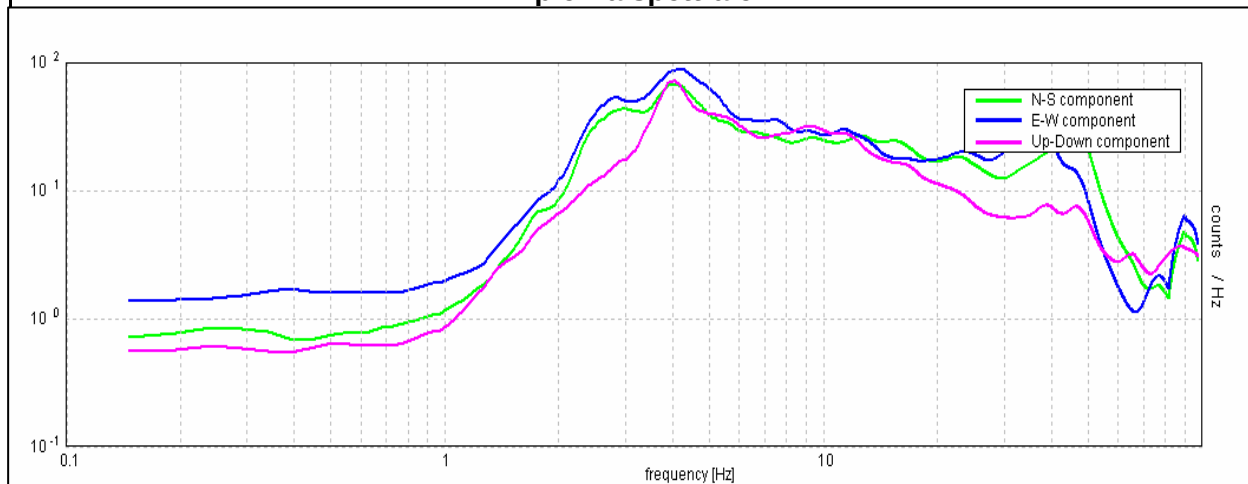
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 09-10-2013	CANTIERE: Riola
QUOTA: 340 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

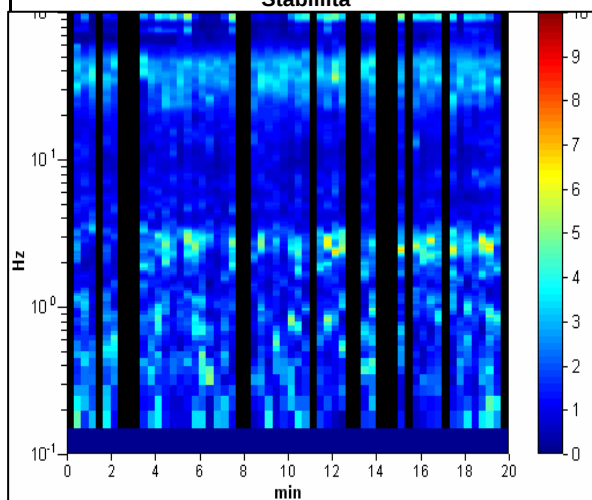
Rapporto spettrale



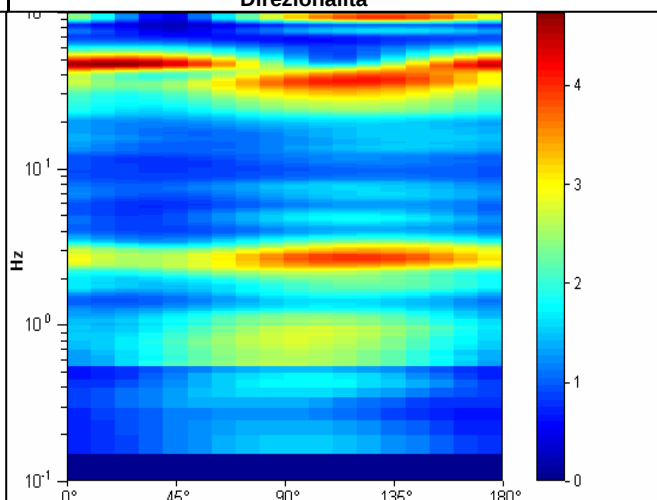
Ampiezza spettrale



Stabilità



Direzionalità

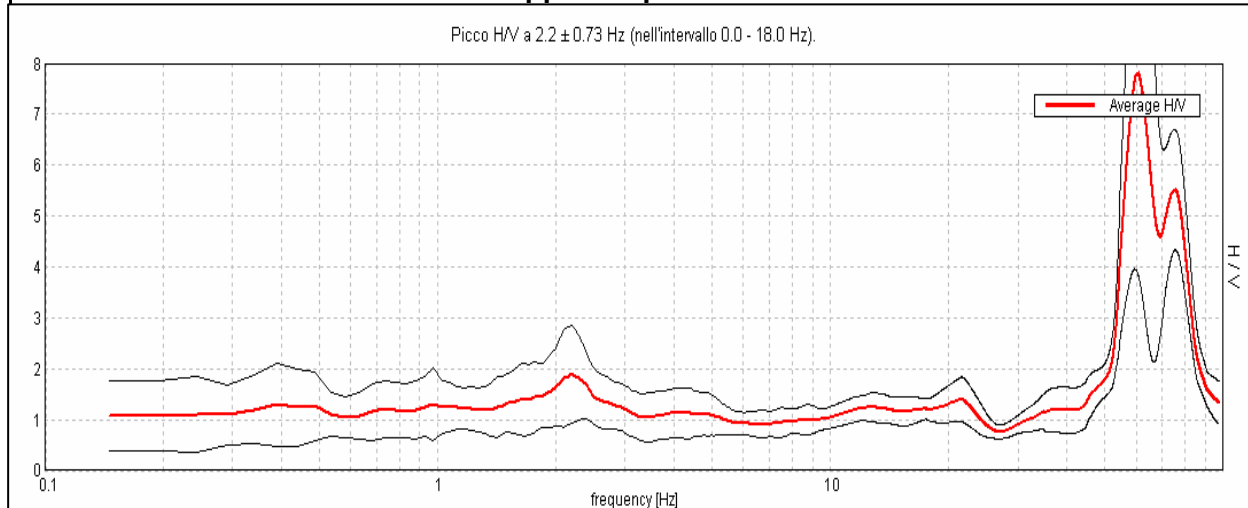


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H09
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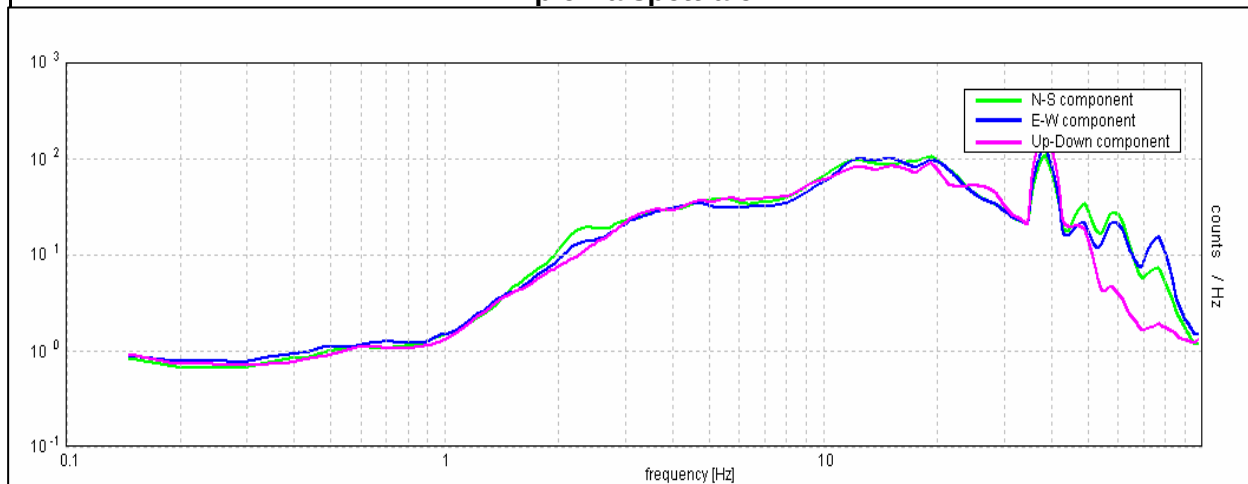
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

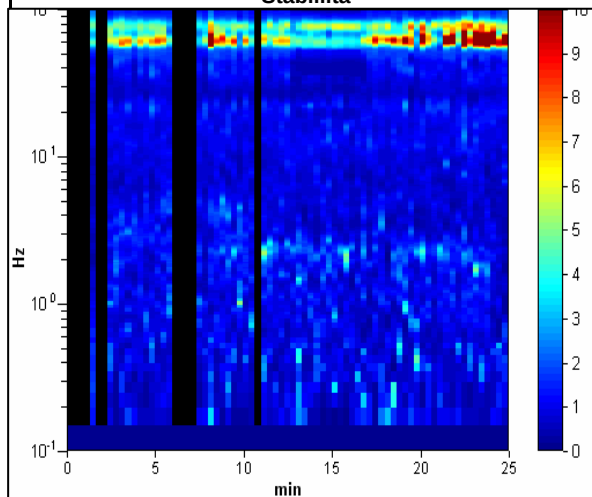
Rapporto spettrale



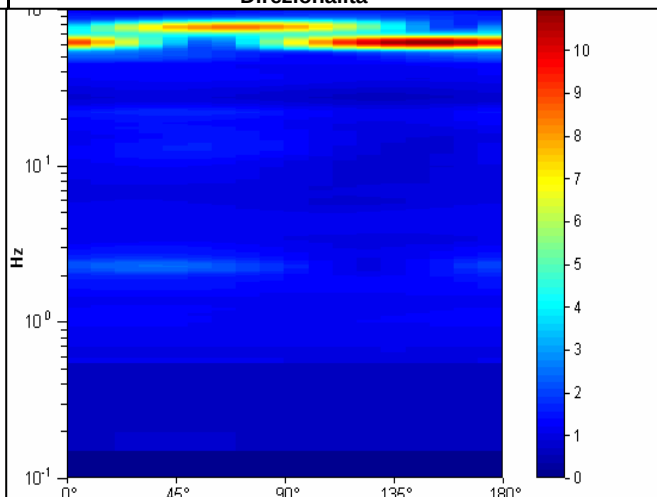
Ampiezza spettrale



Stabilità



Direzionalità

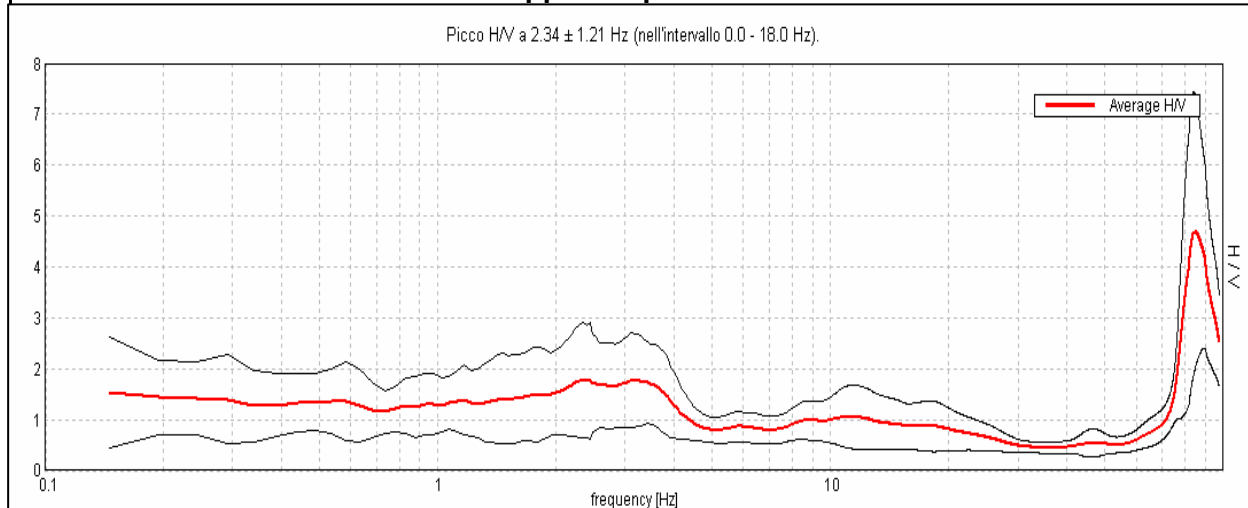


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H10
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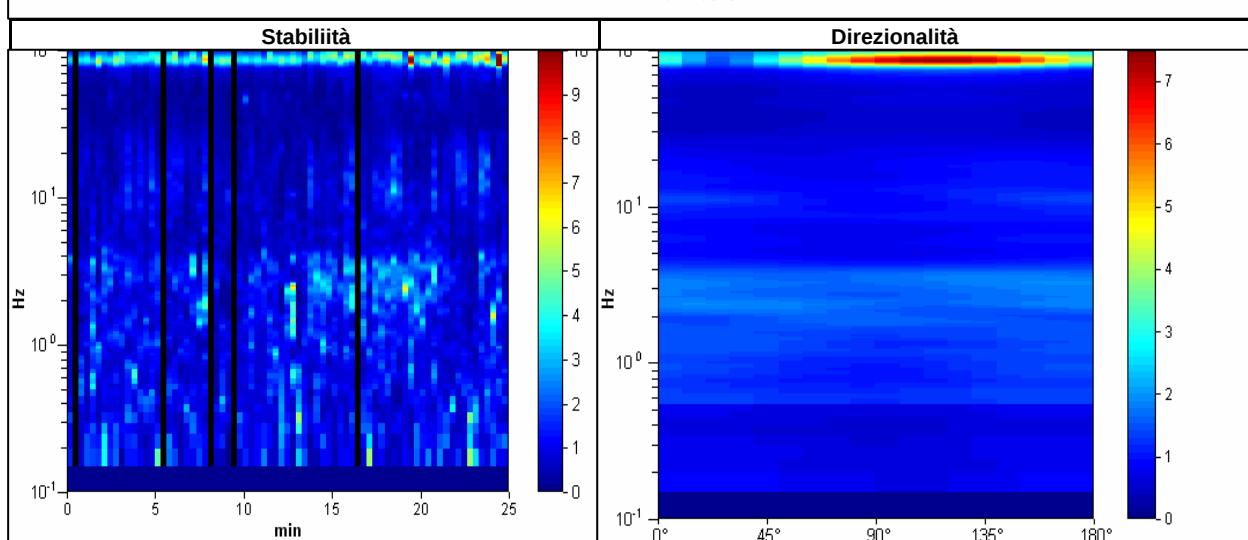
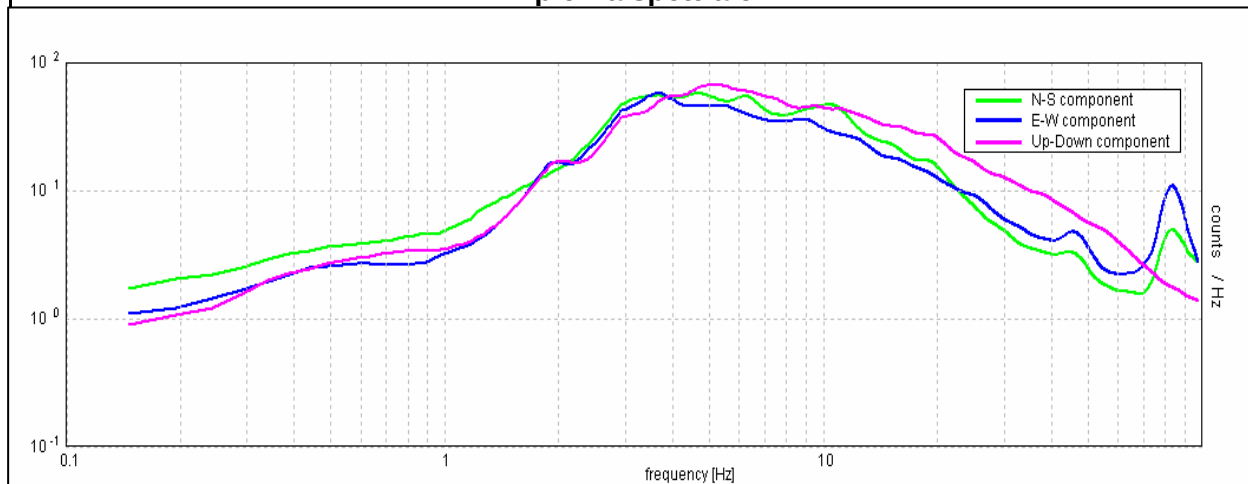
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

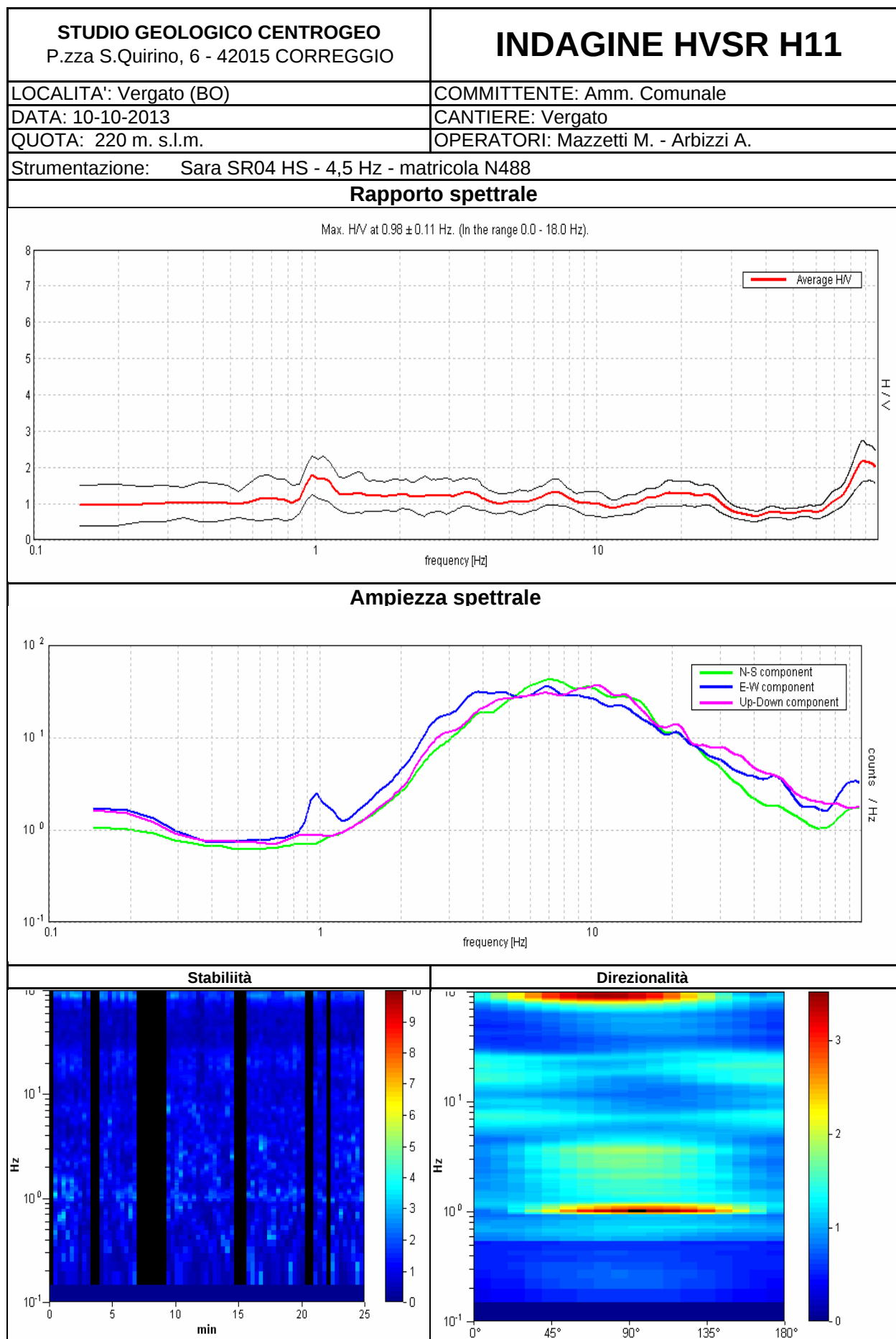
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale



Ampiezza spettrale



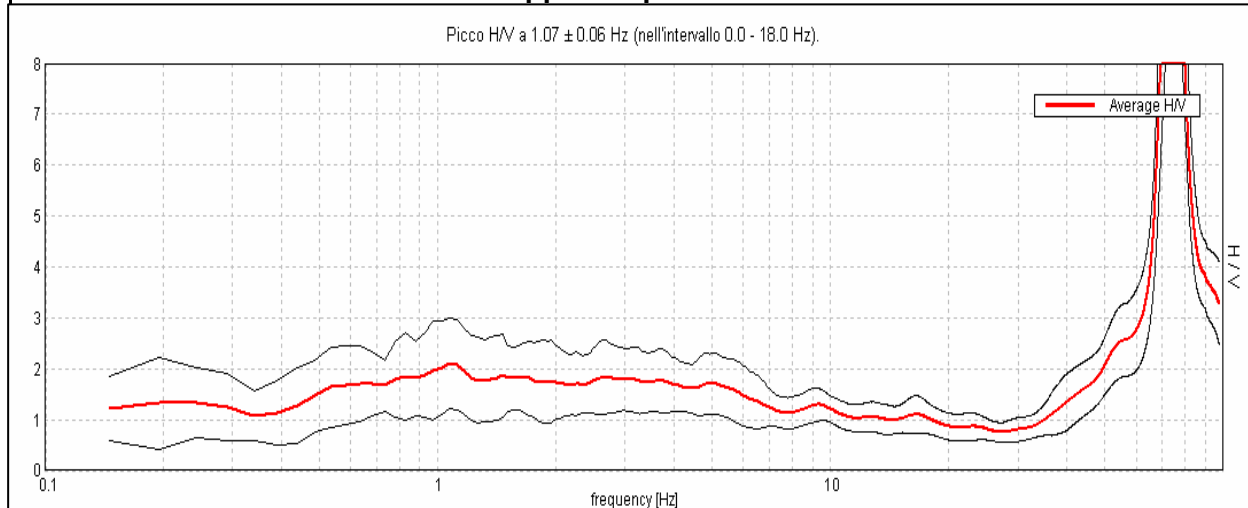


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H12
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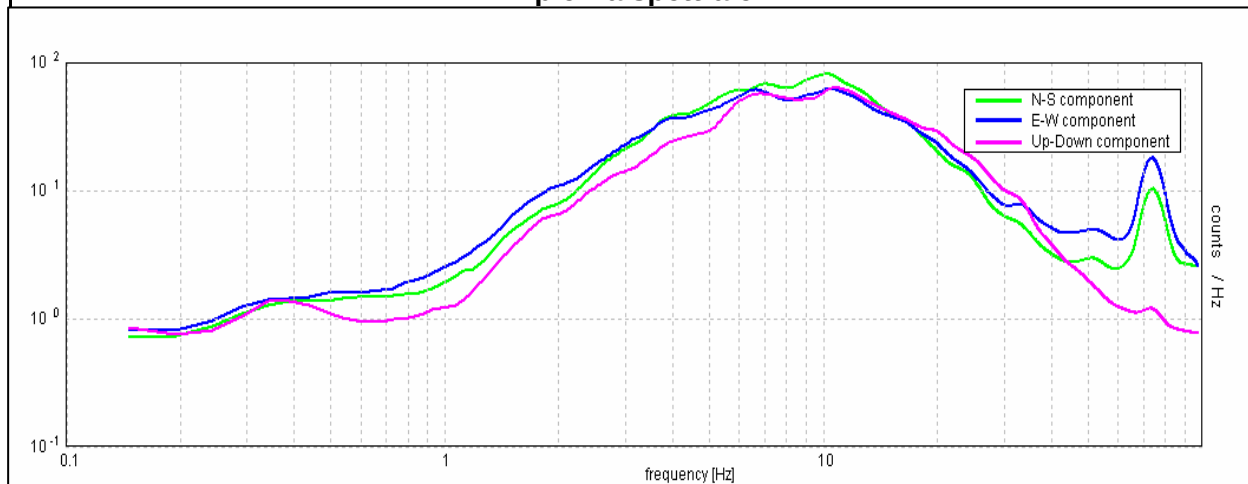
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 195 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

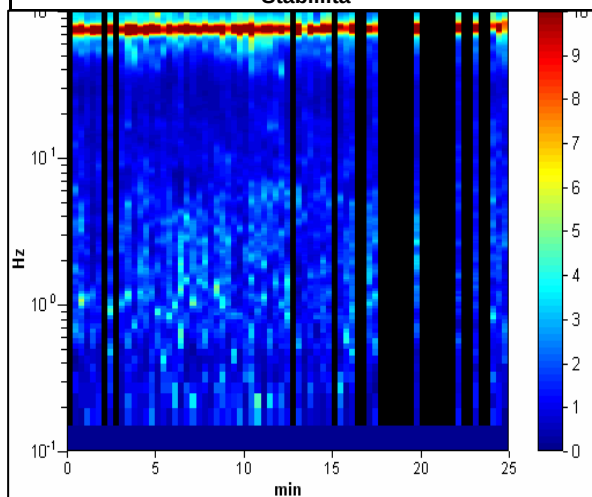
Rapporto spettrale



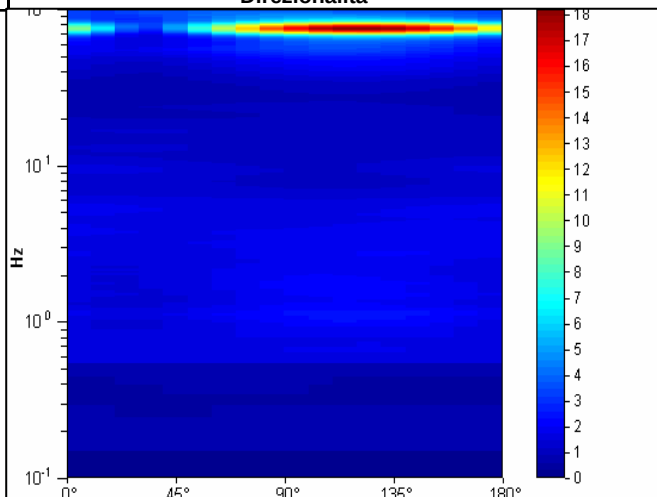
Ampiezza spettrale

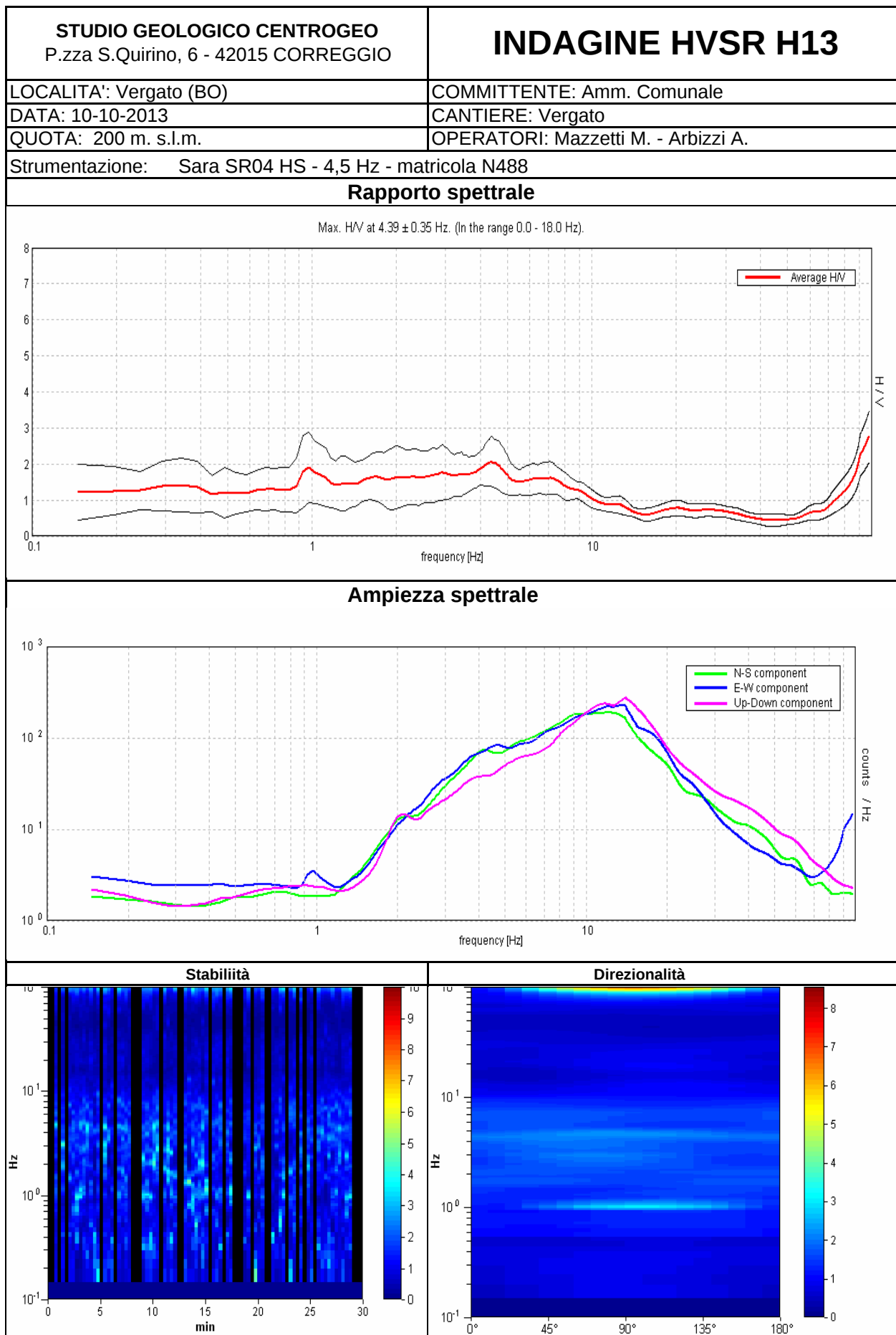


Stabilità



Direzionalità





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

INDAGINE HVSR H14

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 10-10-2013

CANTIERE: Vergato

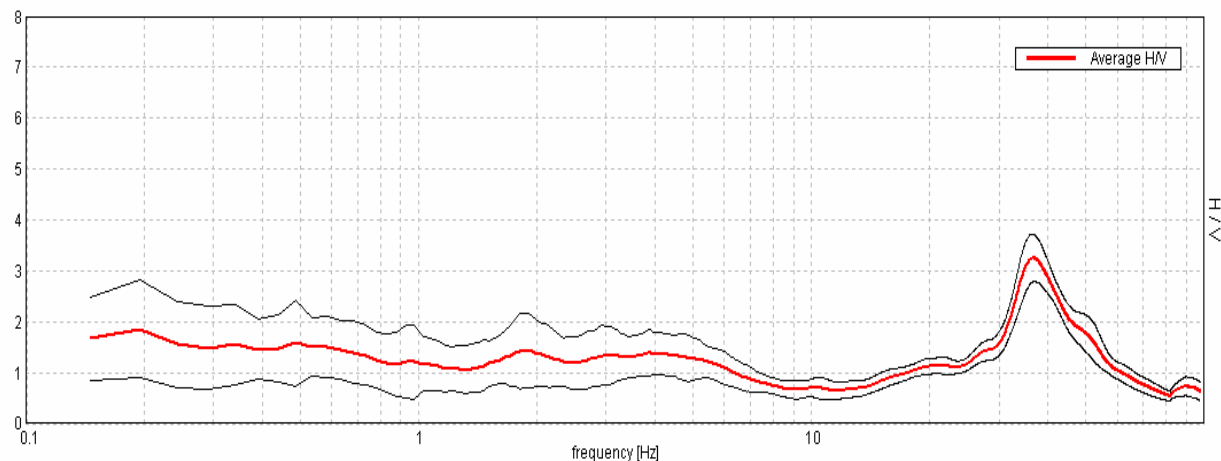
QUOTA: 195 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

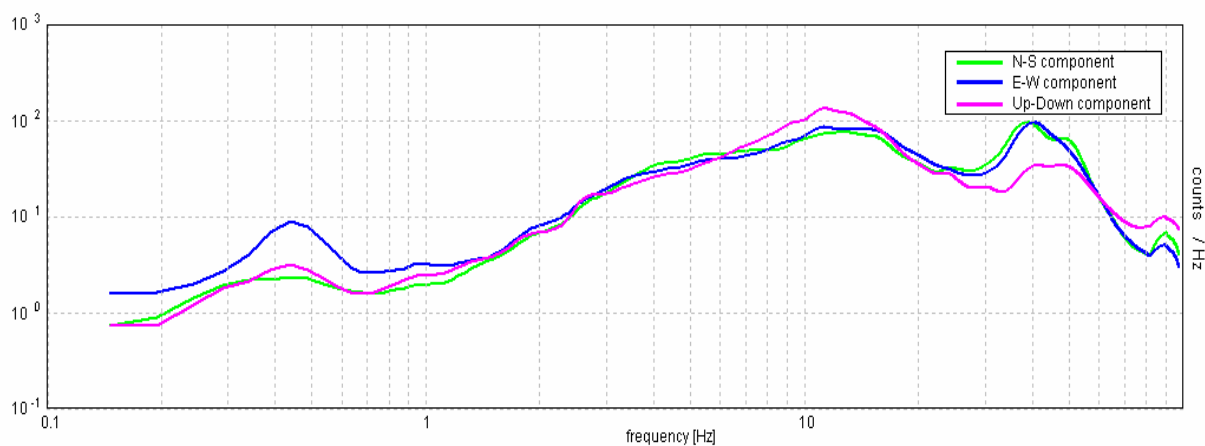
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

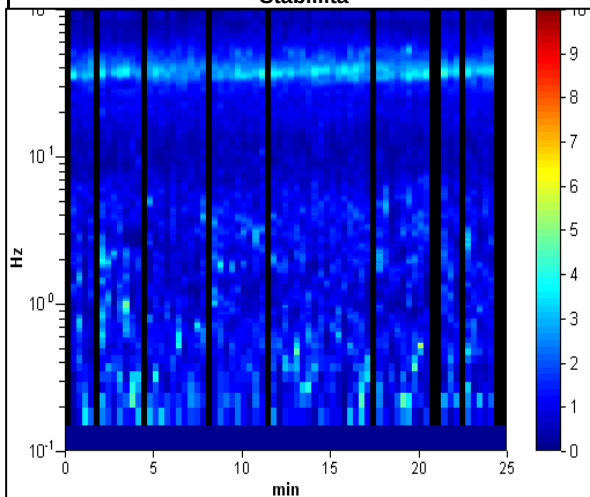
Picco H/V a 0.2 ± 0.65 Hz (nell'intervallo 0.0 - 18.0 Hz).



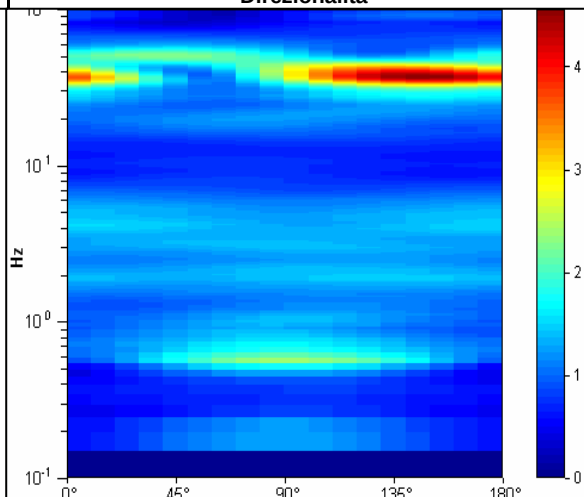
Ampiezza spettrale



Stabilità



Direzionalità

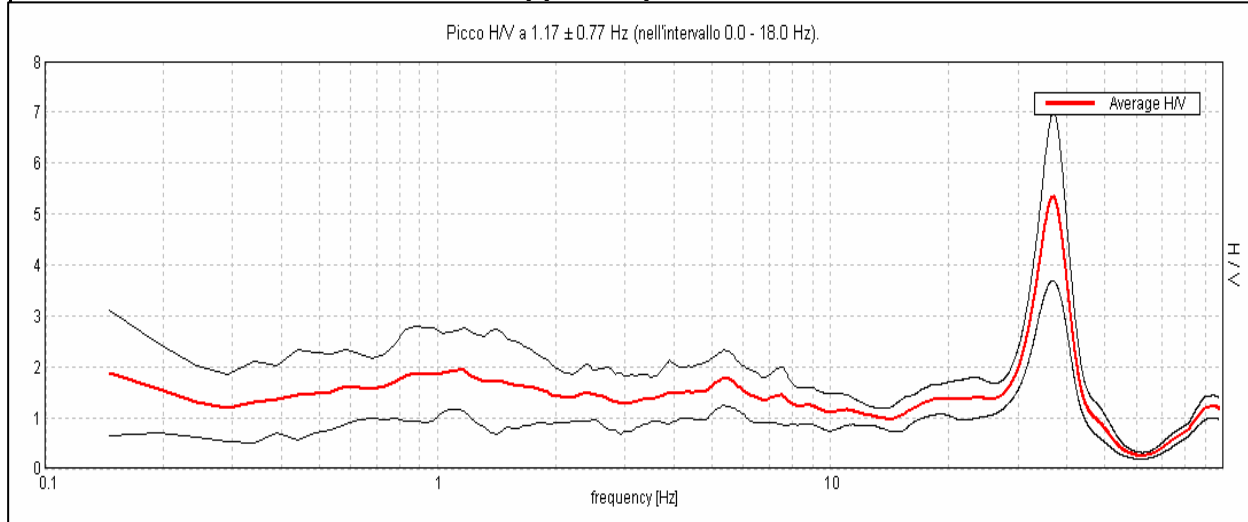


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H15
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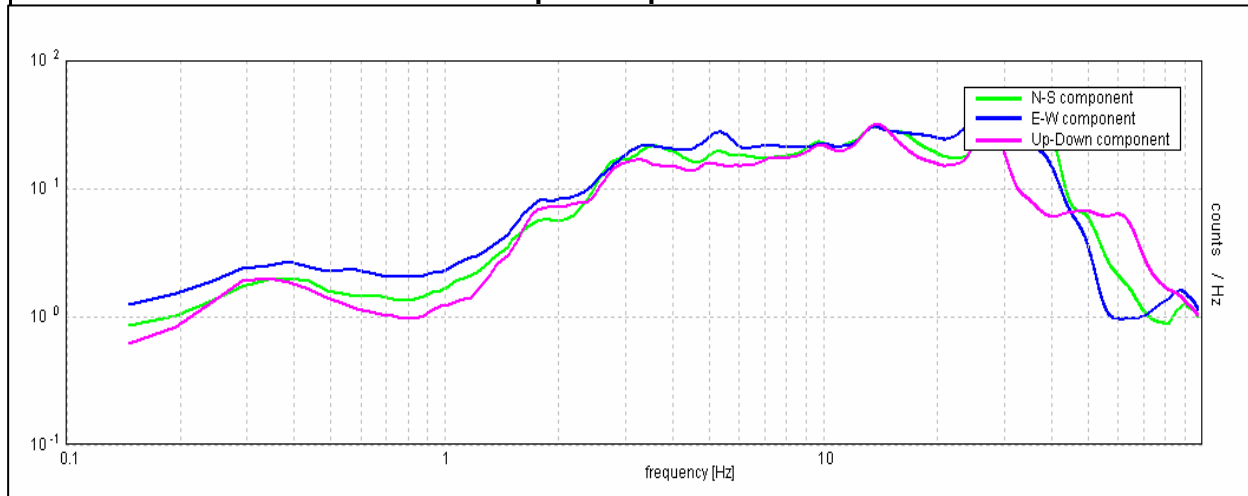
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 215 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

Rapporto spettrale

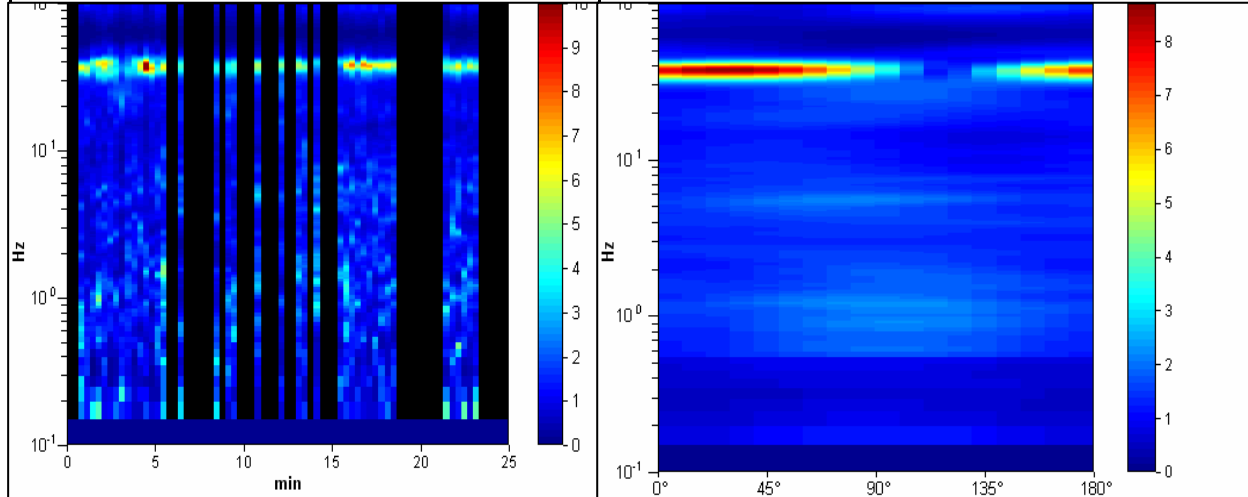


Ampiezza spettrale



Stabilità

Direzionalità

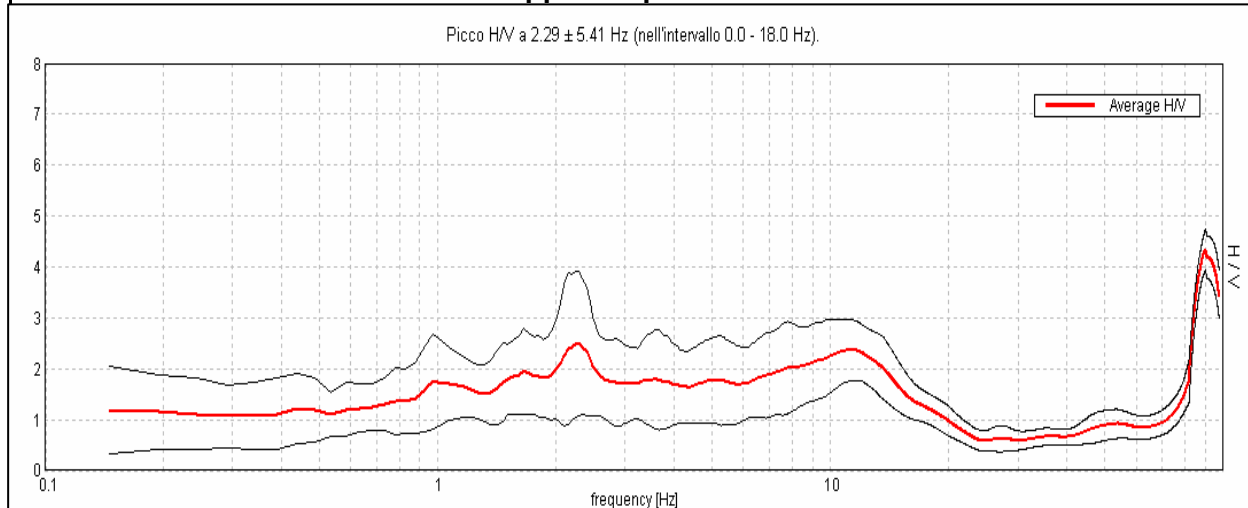


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H16
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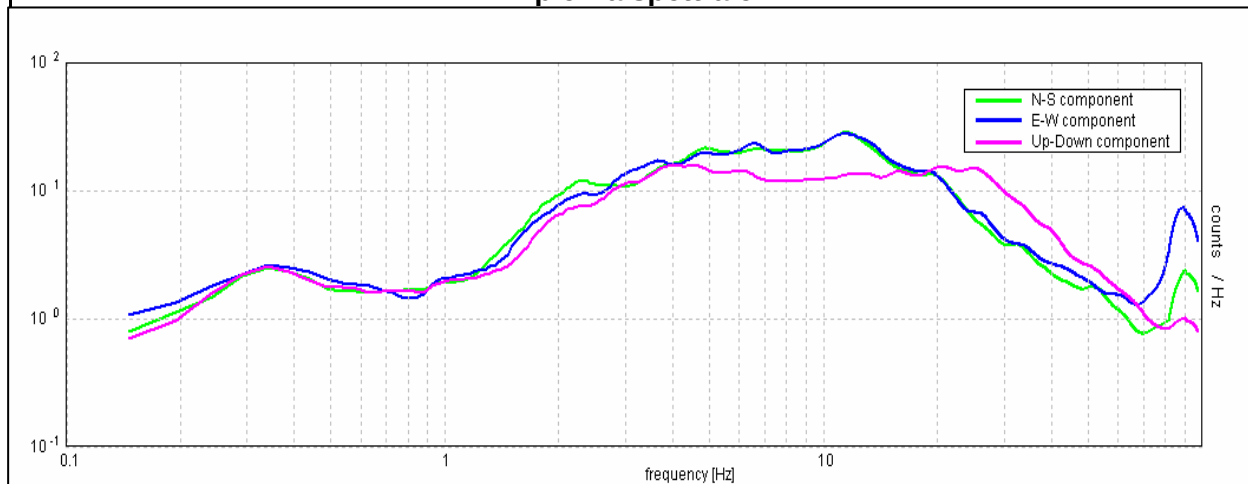
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 10-10-2013	CANTIERE: Vergato
QUOTA: 255 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

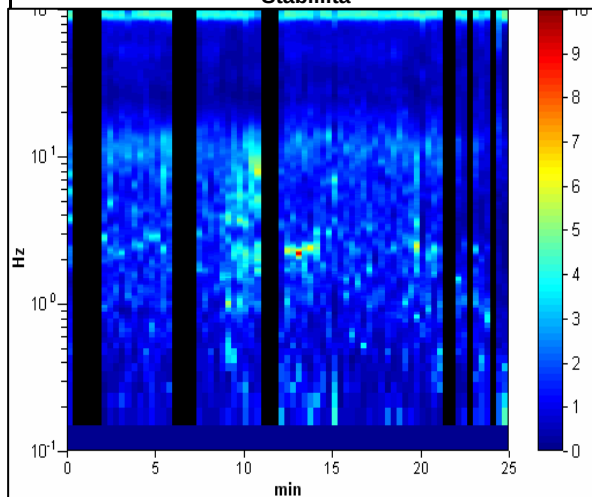
Rapporto spettrale



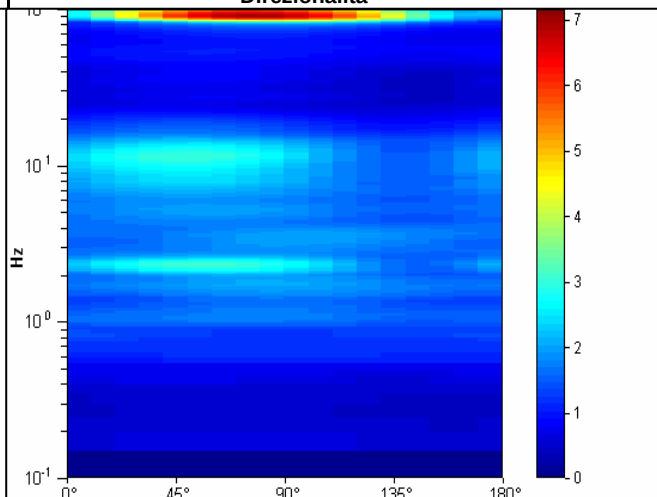
Ampiezza spettrale



Stabilità



Direzionalità

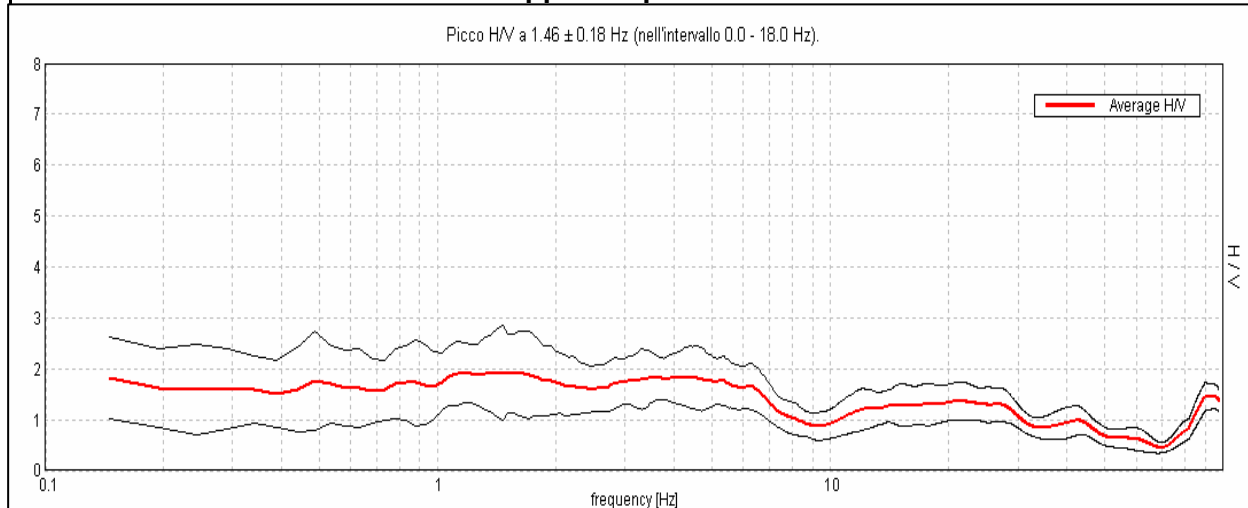


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H17
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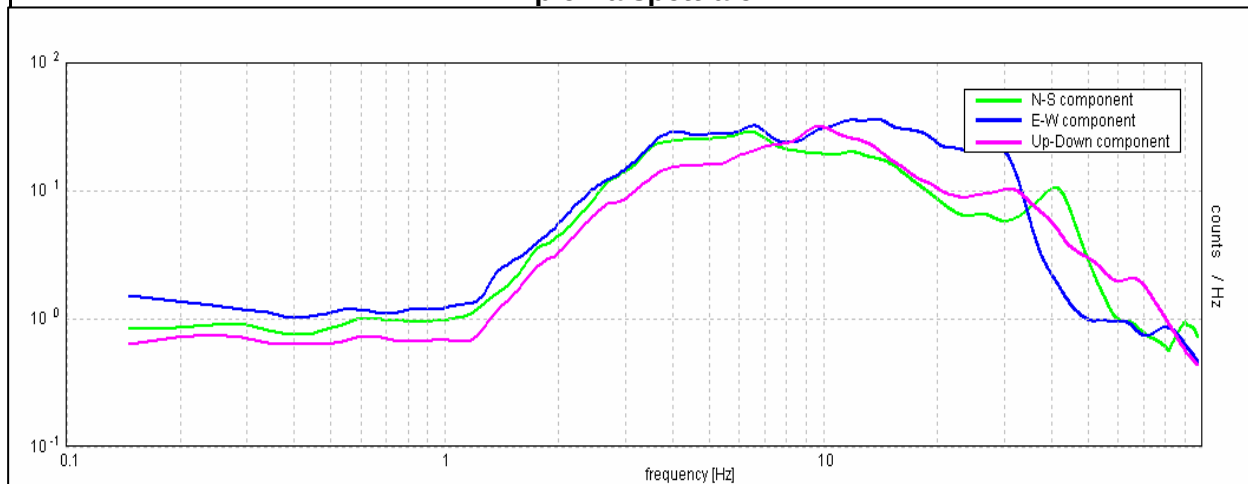
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Vergato
QUOTA: 235 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

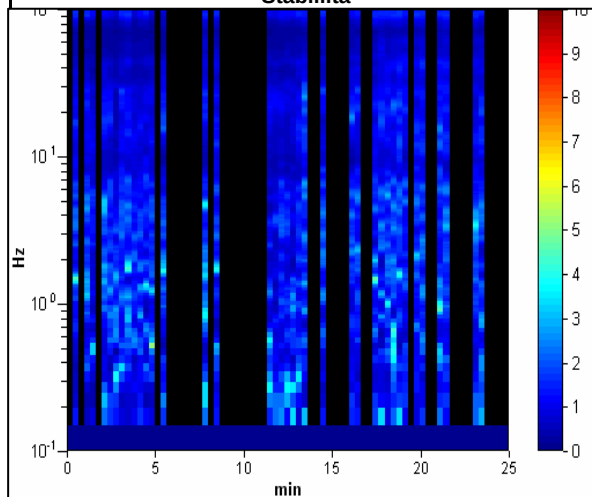
Rapporto spettrale



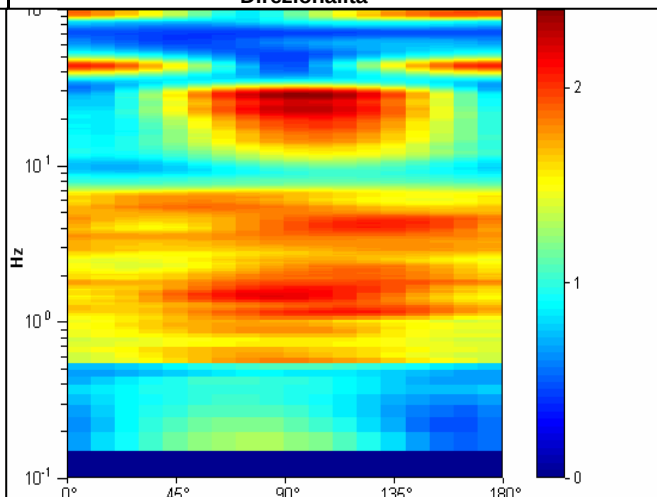
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H18

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Vergato

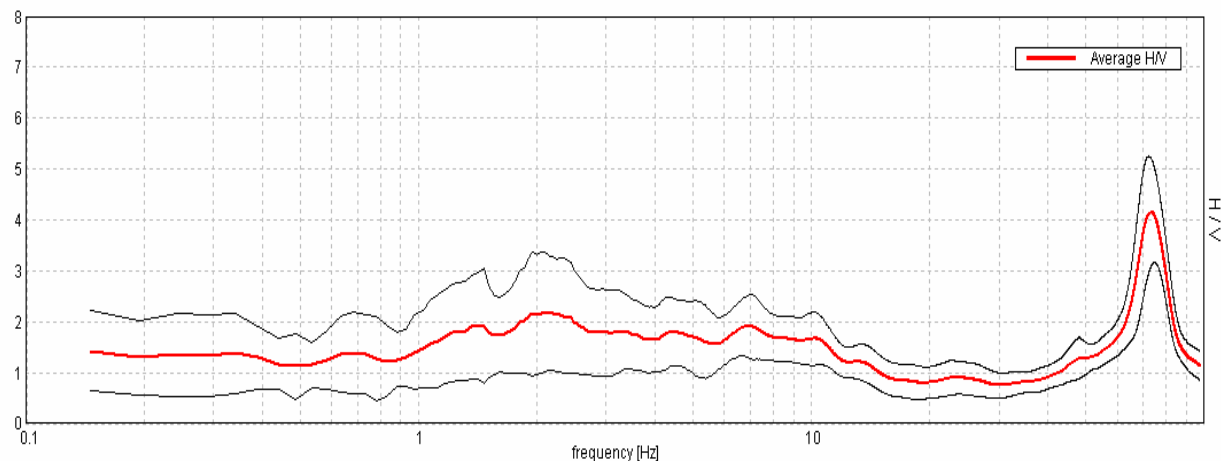
QUOTA: 230 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

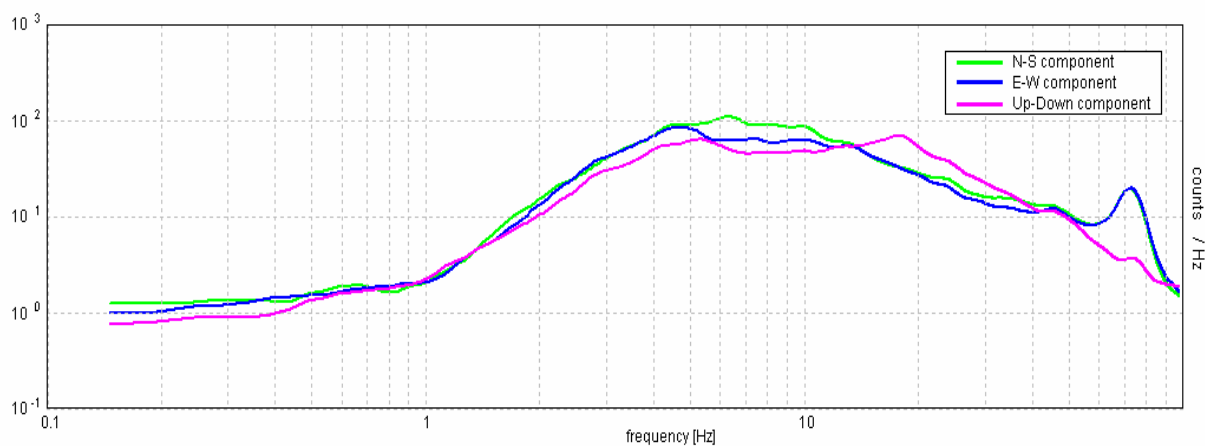
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

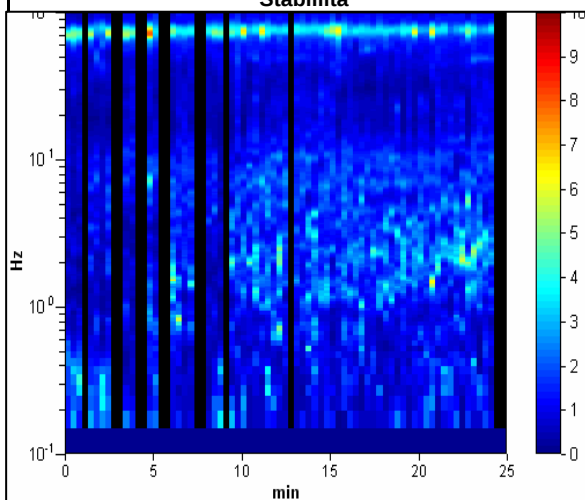
Picco HV a 2.1 ± 3.3 Hz (nell'intervallo 0.0 - 18.0 Hz).



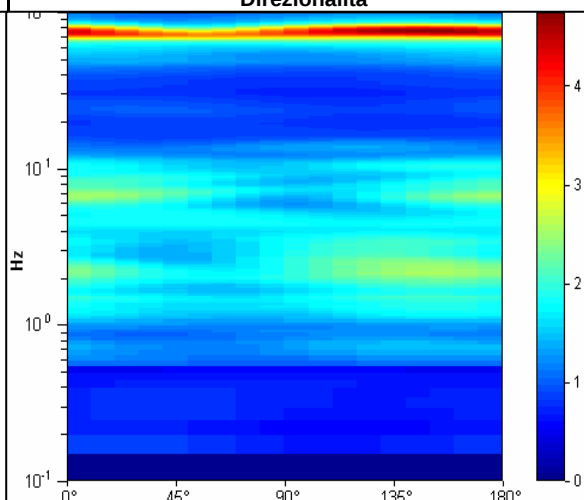
Ampiezza spettrale

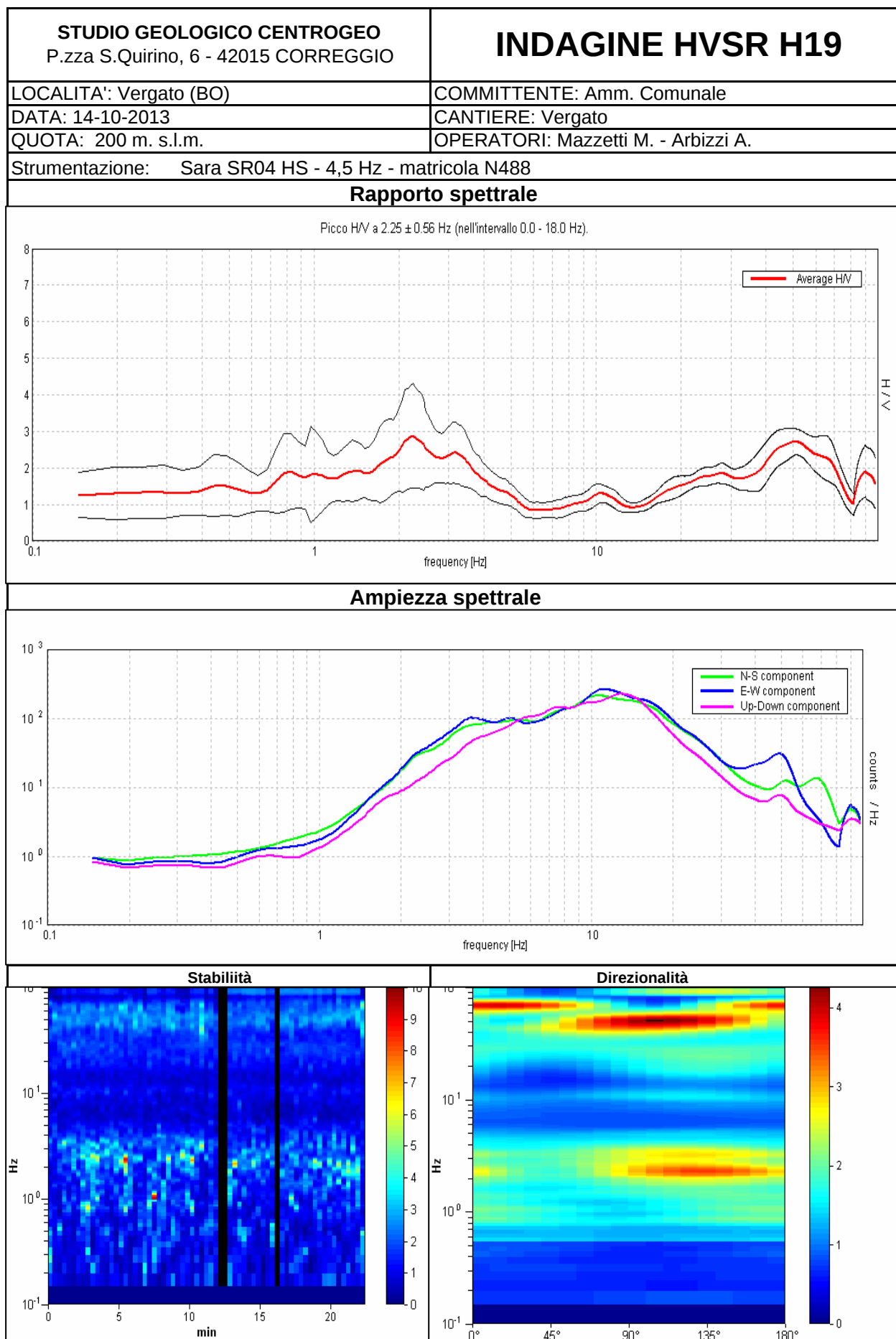


Stabilità



Direzionalità



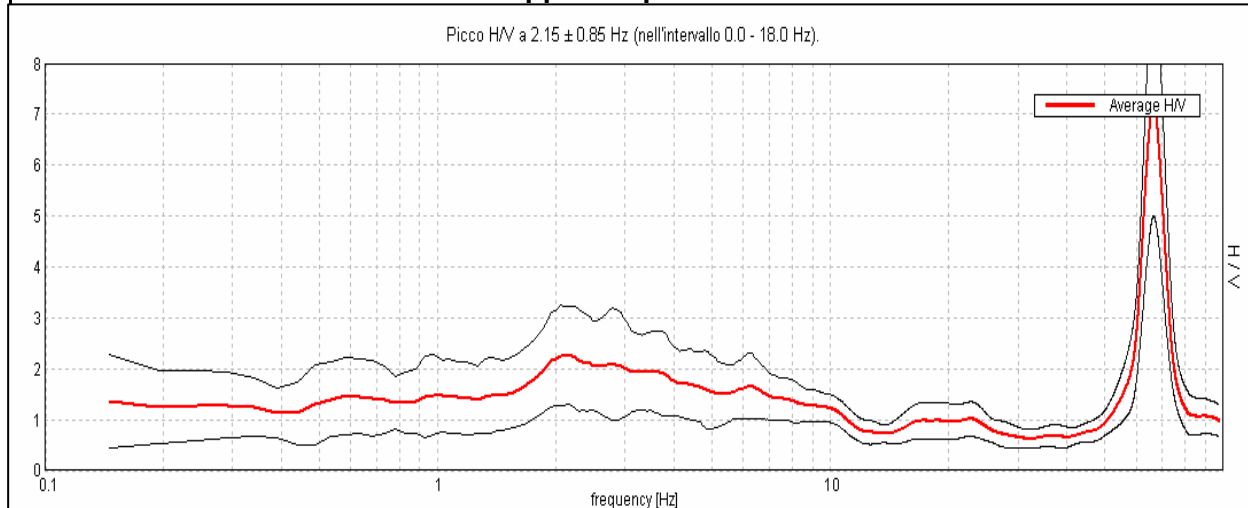


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H20
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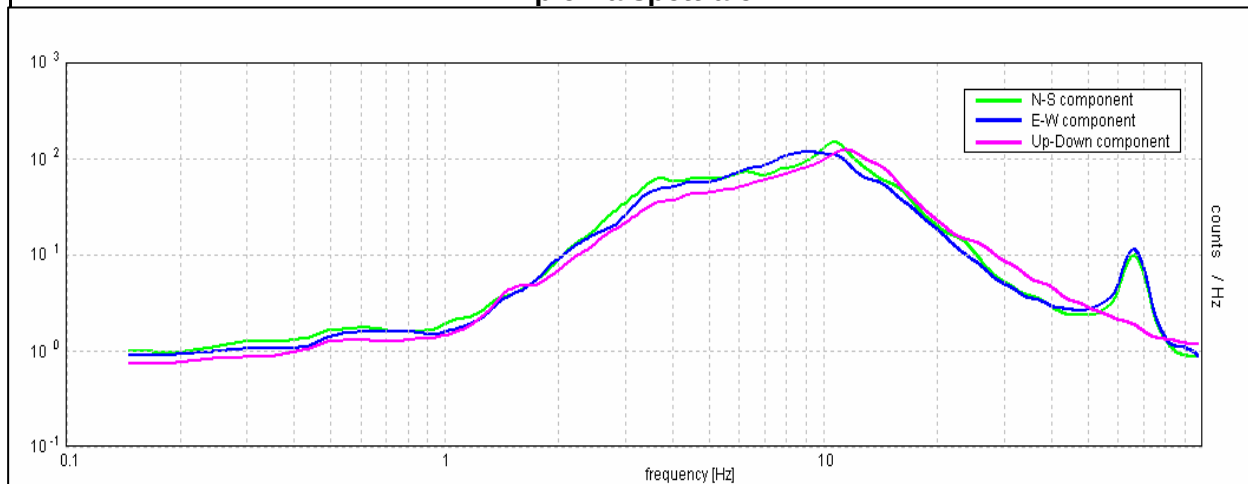
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 14-10-2013	CANTIERE: Vergato
QUOTA: 200 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

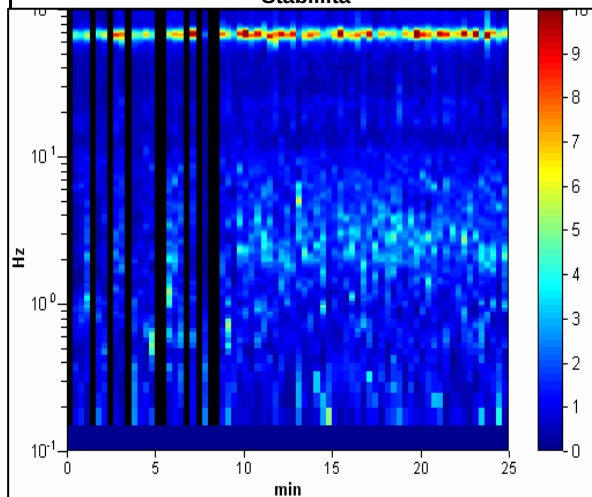
Rapporto spettrale



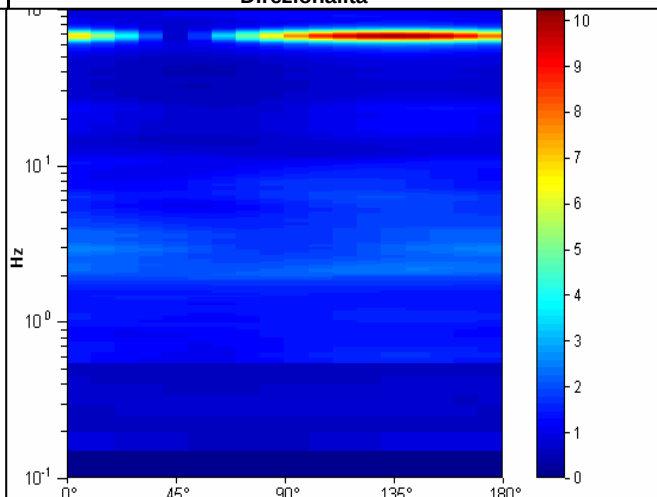
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H21

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Tolè

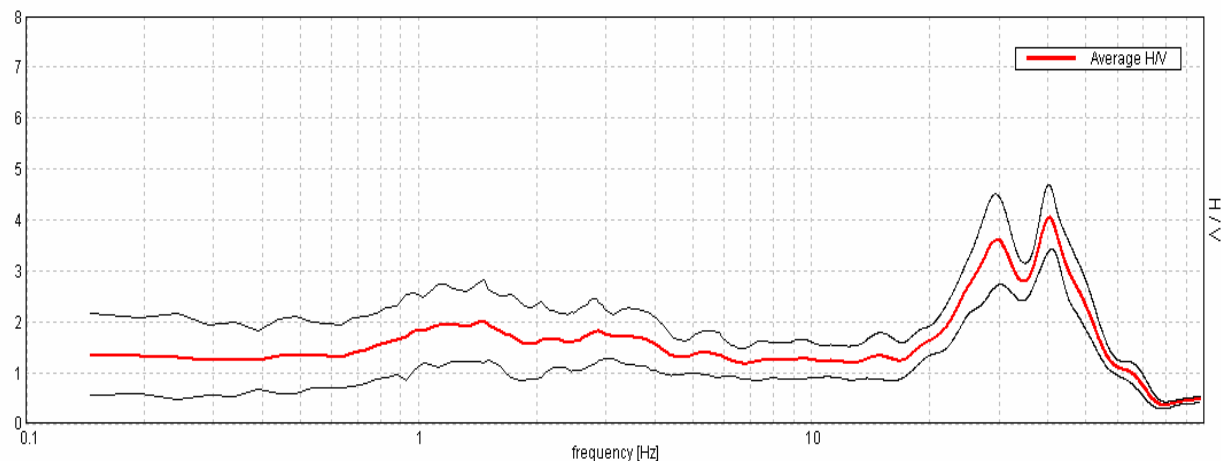
QUOTA: 660 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

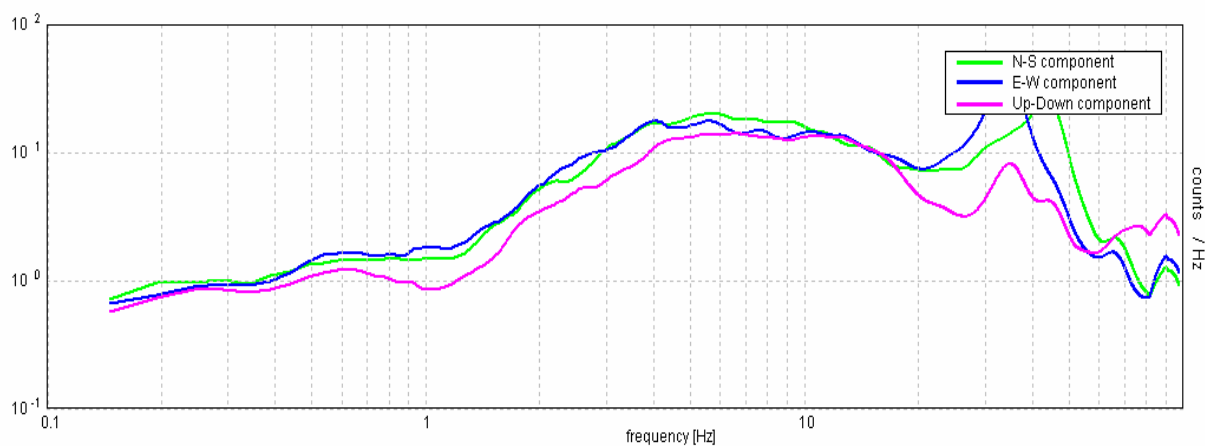
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

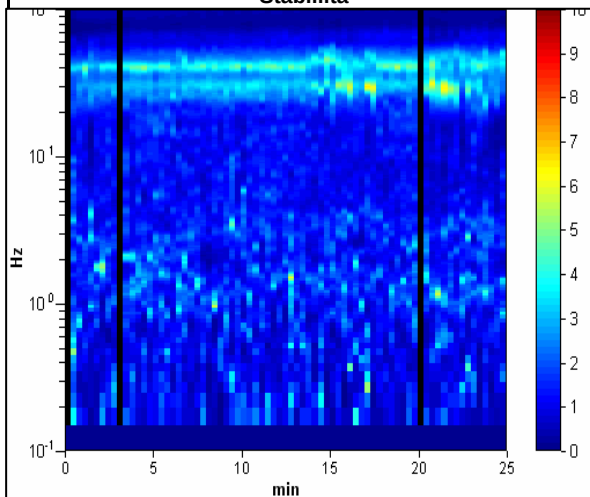
Picco H/V a 1.46 ± 0.42 Hz (nell'intervallo 0.0 - 18.0 Hz).



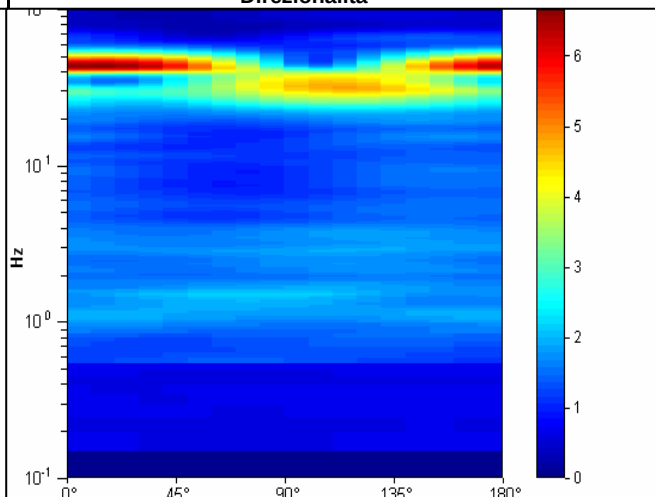
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H22

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Tolè

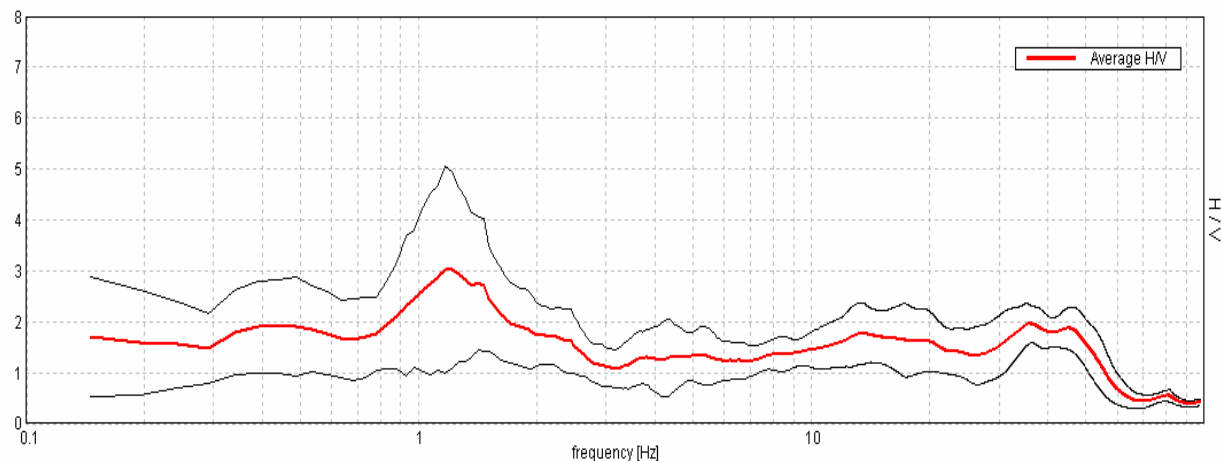
QUOTA: 670 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

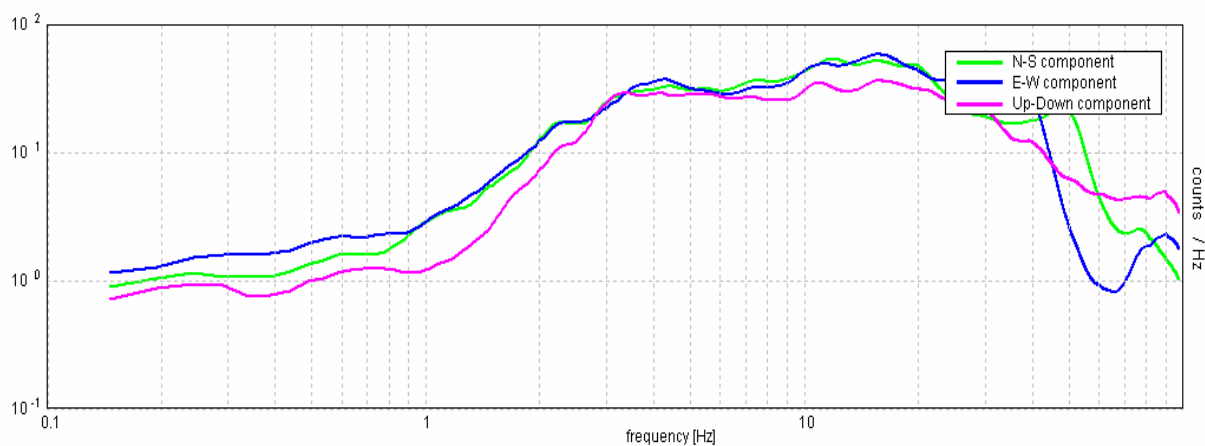
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

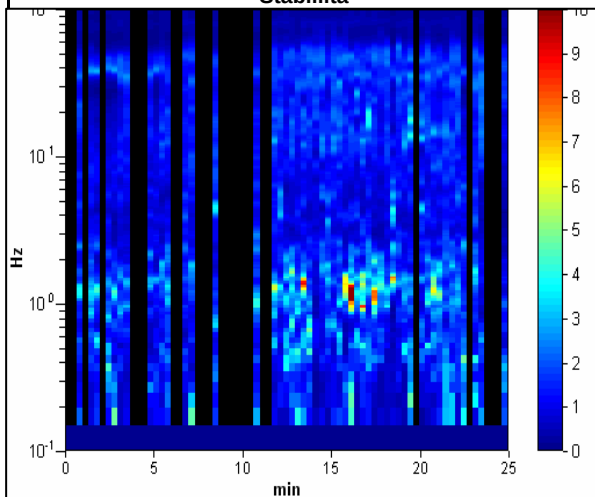
Picco H/V a 1.17 ± 0.05 Hz (nell'intervallo 0.0 - 18.0 Hz).



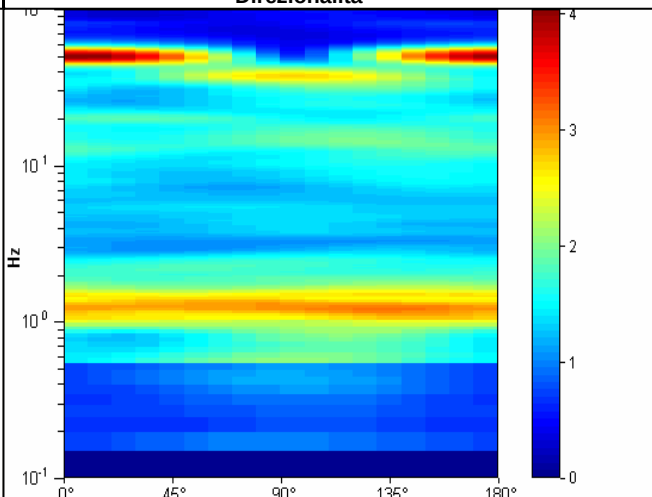
Ampiezza spettrale



Stabilità



Direzionalità

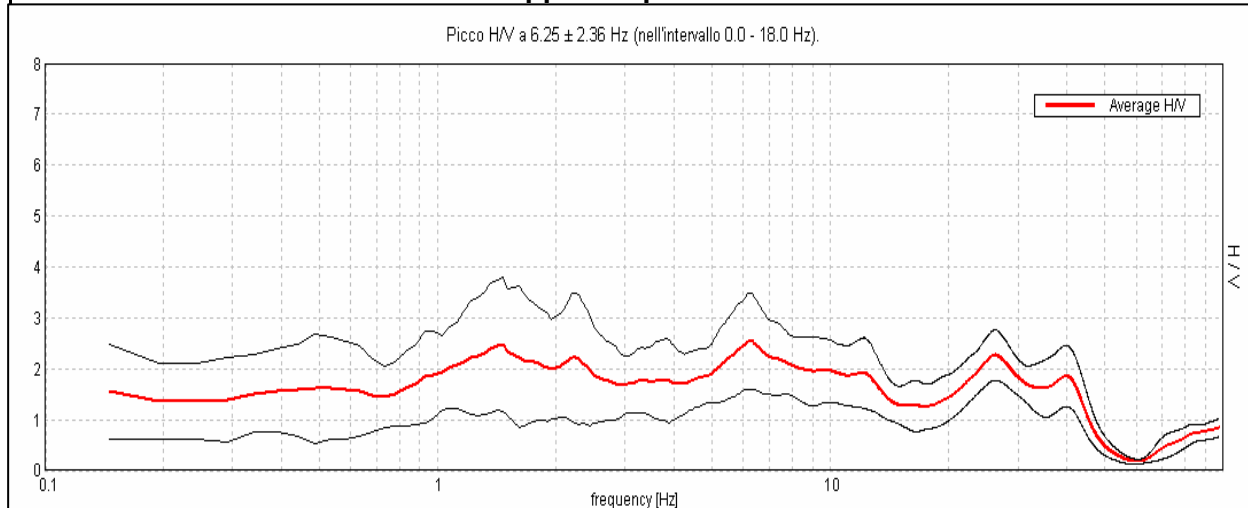


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H23
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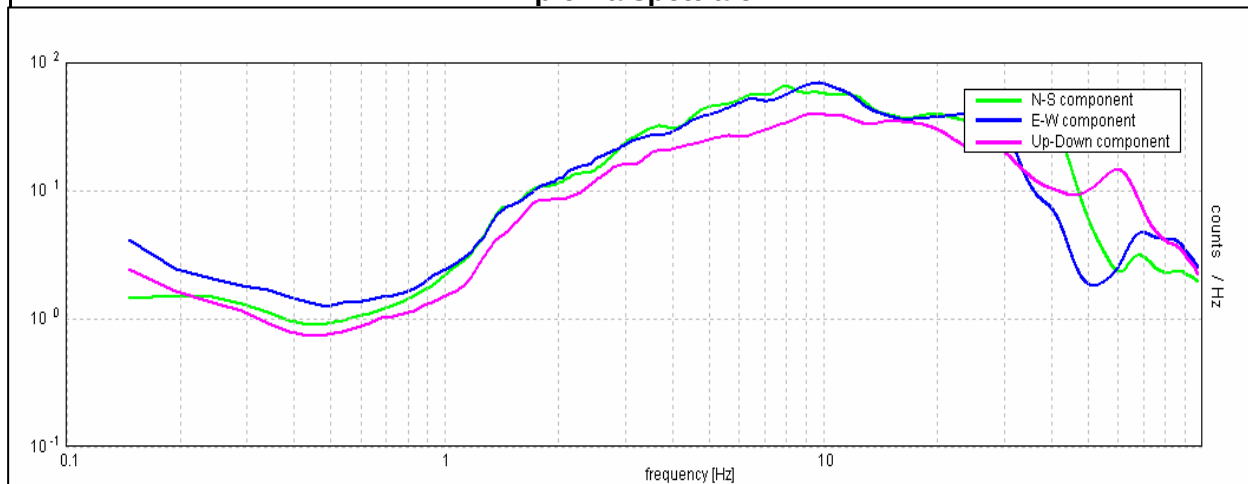
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Tolè
QUOTA: 670 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

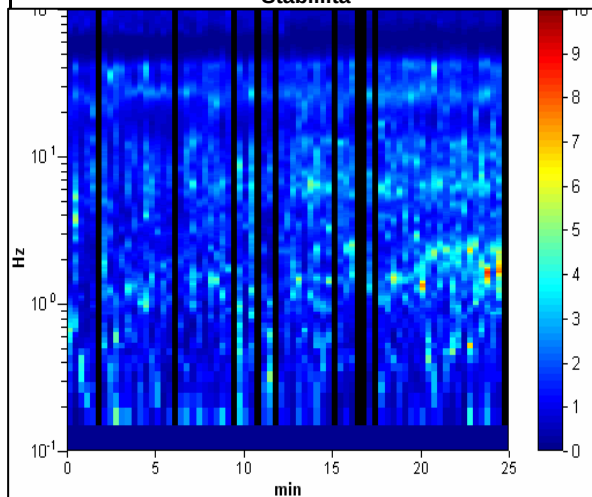
Rapporto spettrale



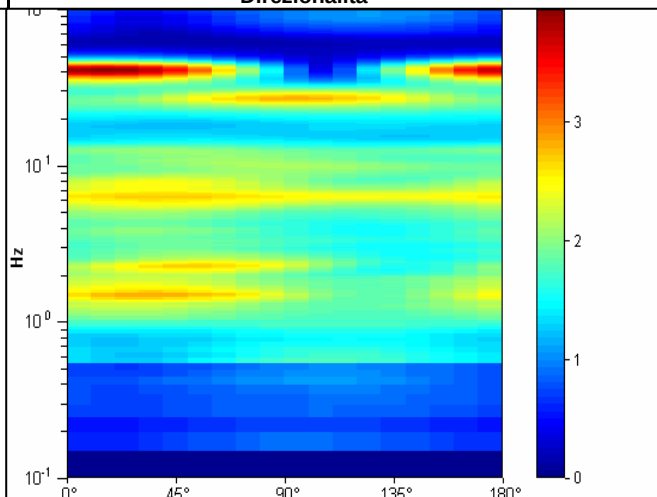
Ampiezza spettrale



Stabilità



Direzionalità

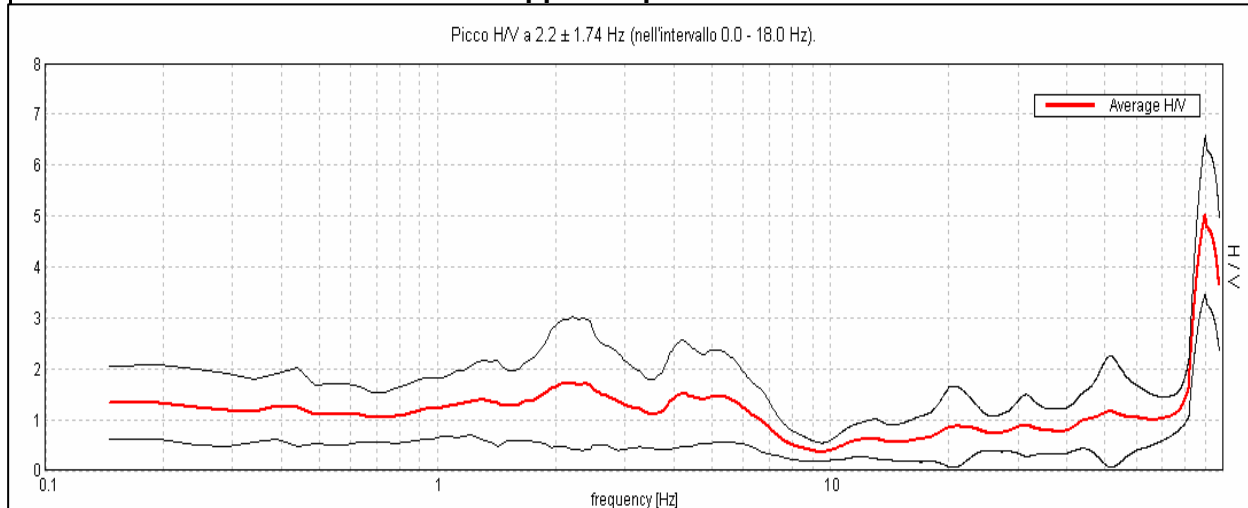


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H24
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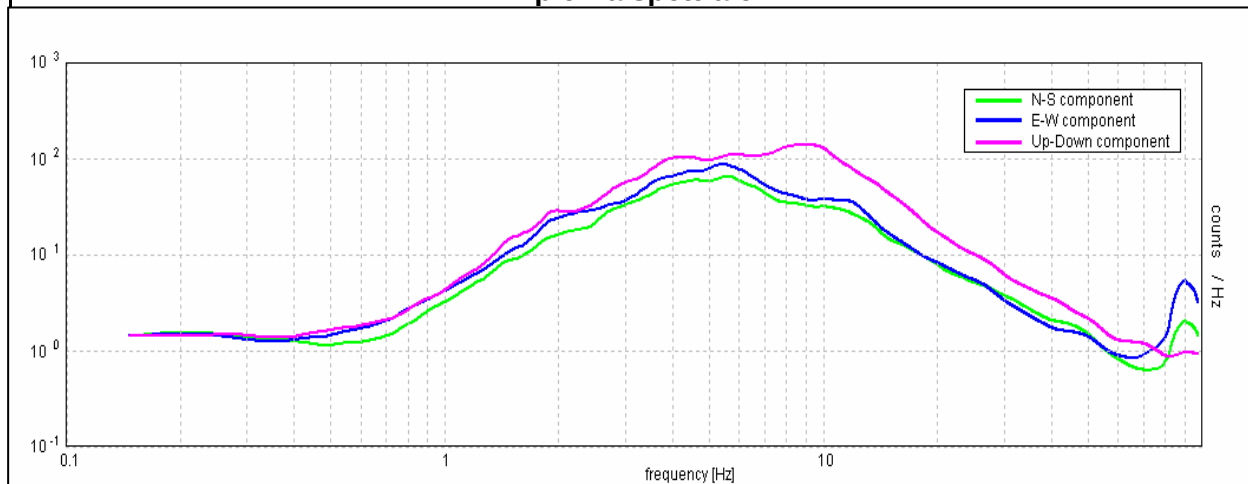
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Tolè
QUOTA: 660 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

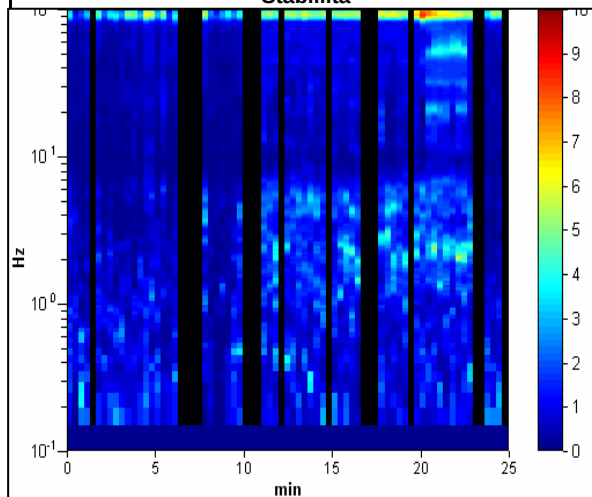
Rapporto spettrale



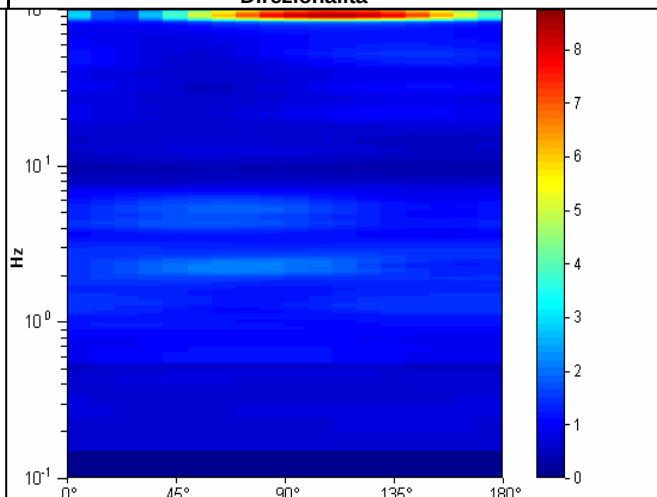
Ampiezza spettrale



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

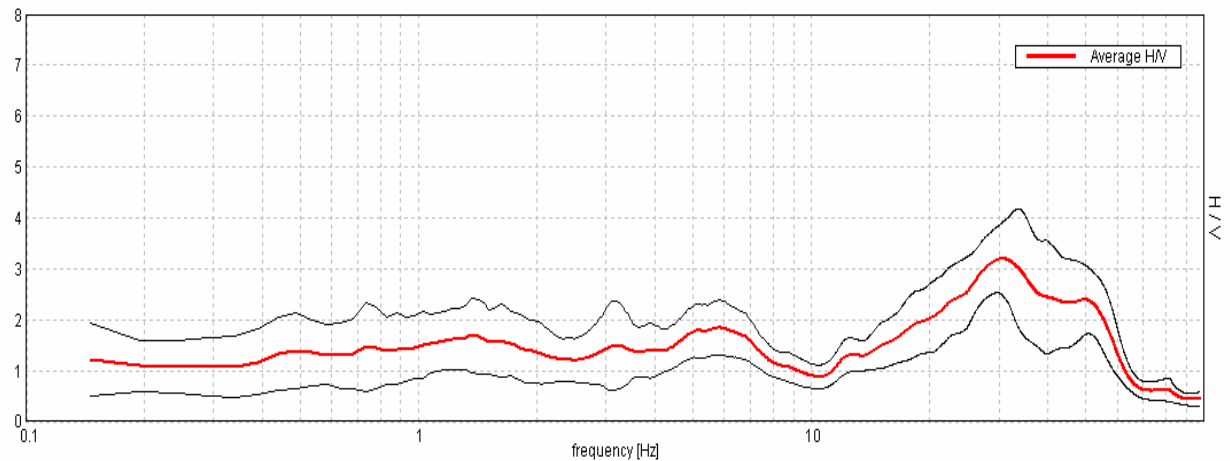
QUOTA: 660 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

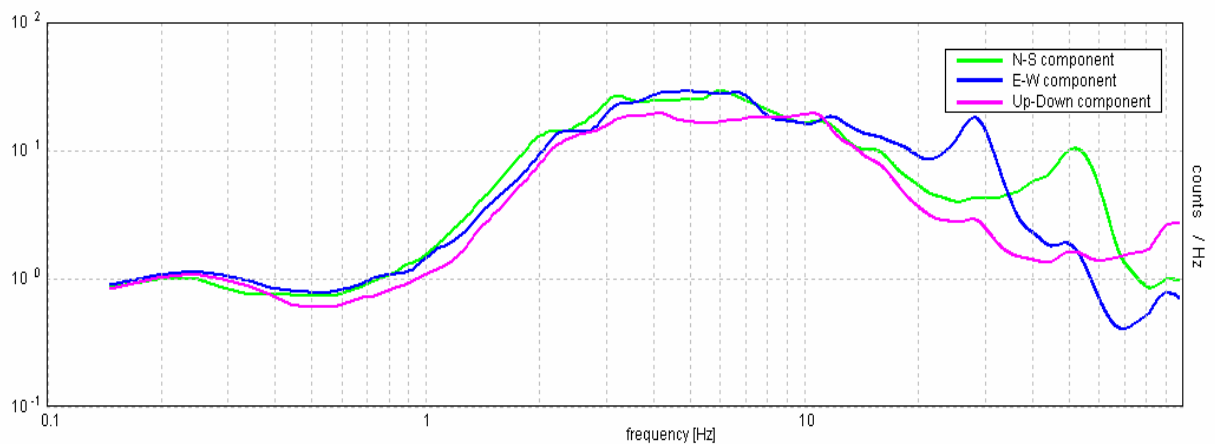
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

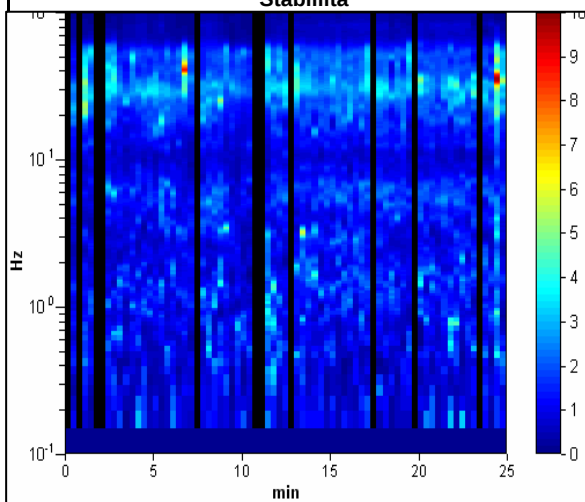
Picco HV a 17.97 ± 4.26 Hz (nell'intervallo 0.0 - 18.0 Hz).



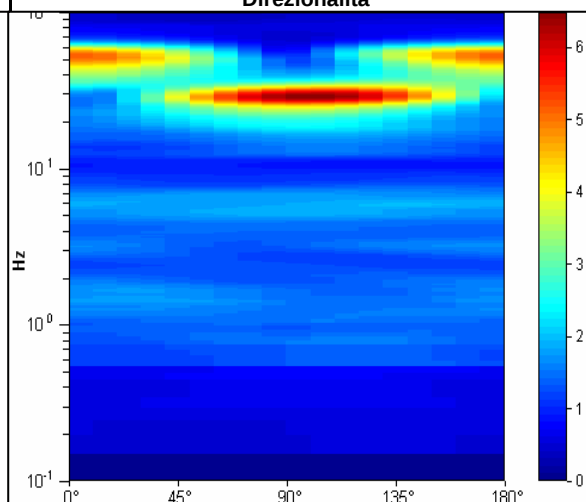
Ampiezza spettrale



Stabilità



Direzionalità

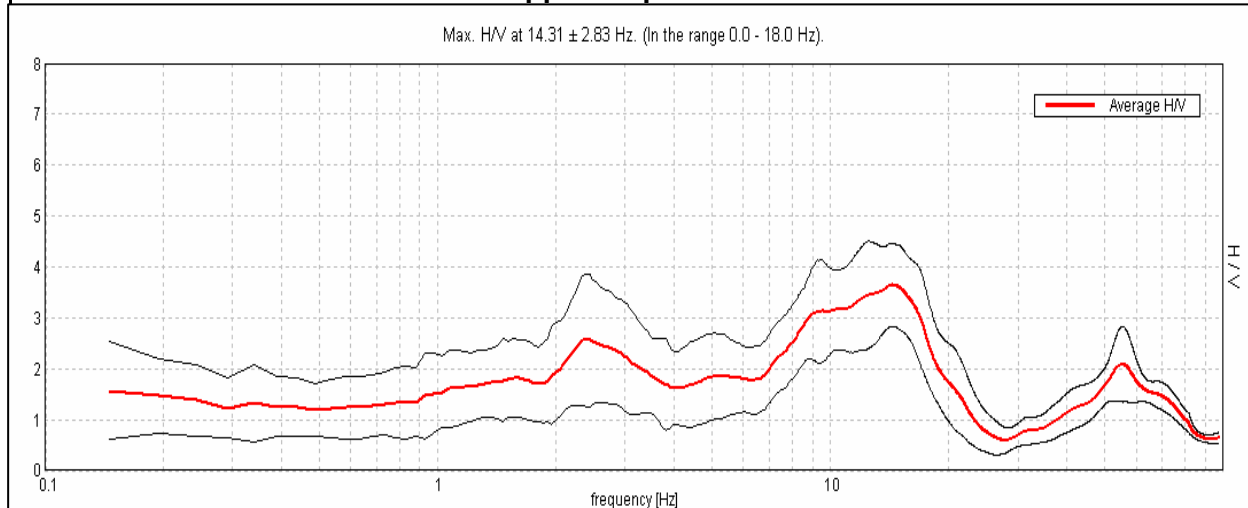


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H26
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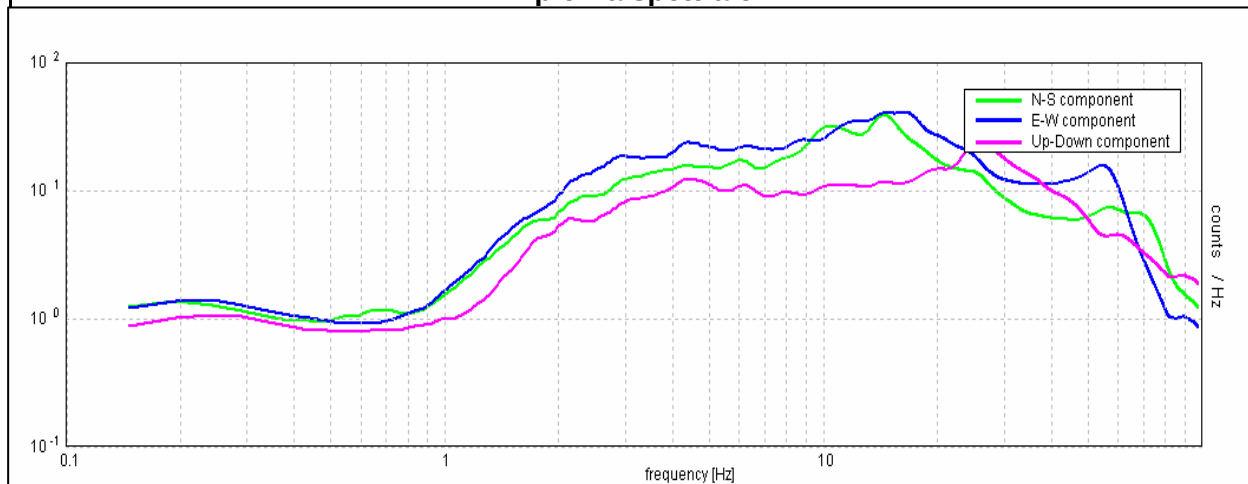
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Tolè
QUOTA: 680 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

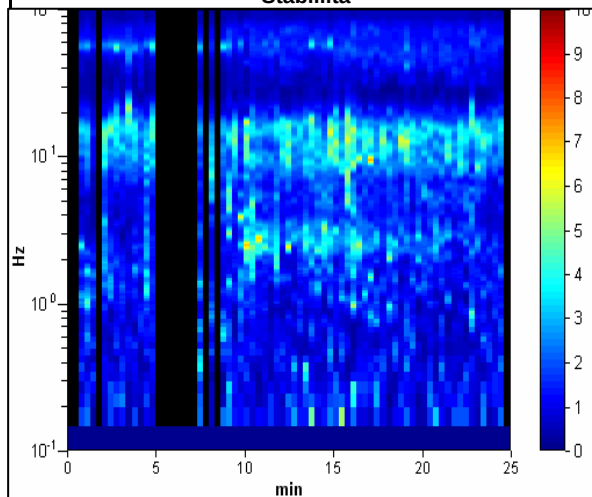
Rapporto spettrale



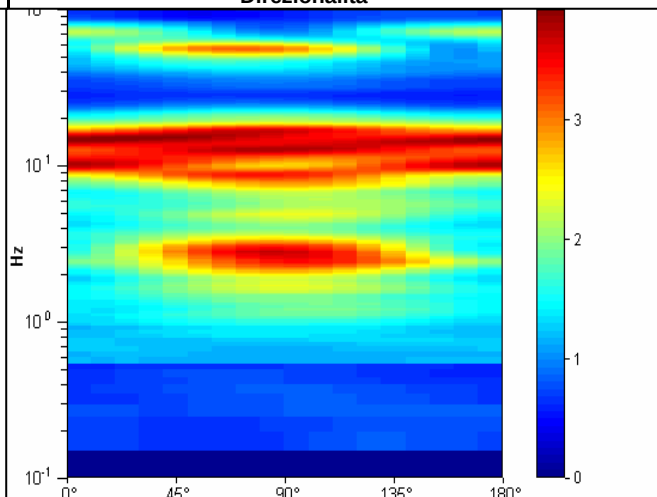
Ampiezza spettrale



Stabilità



Direzionalità

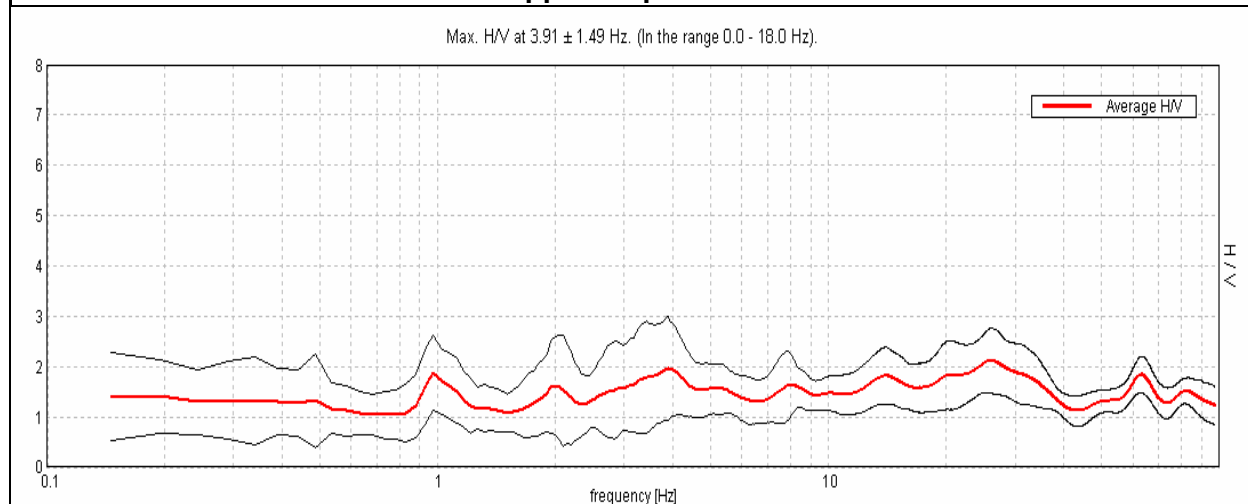


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H27
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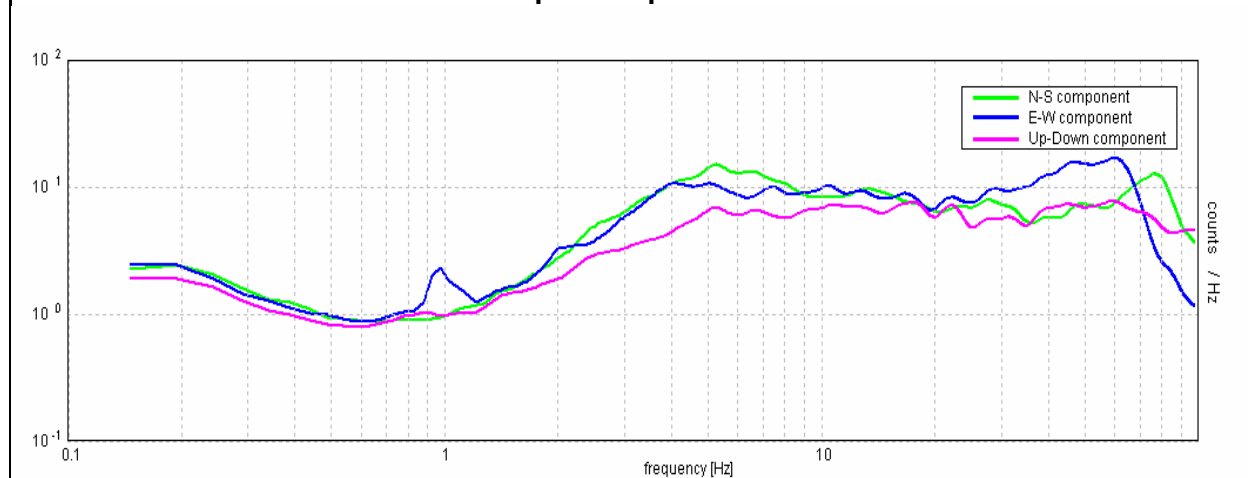
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 670 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

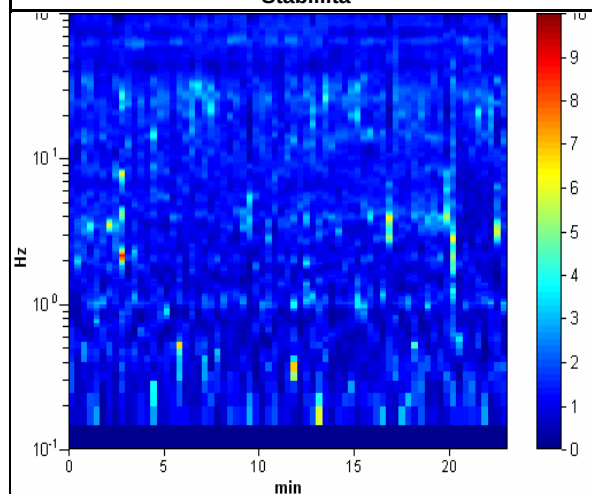
Rapporto spettrale



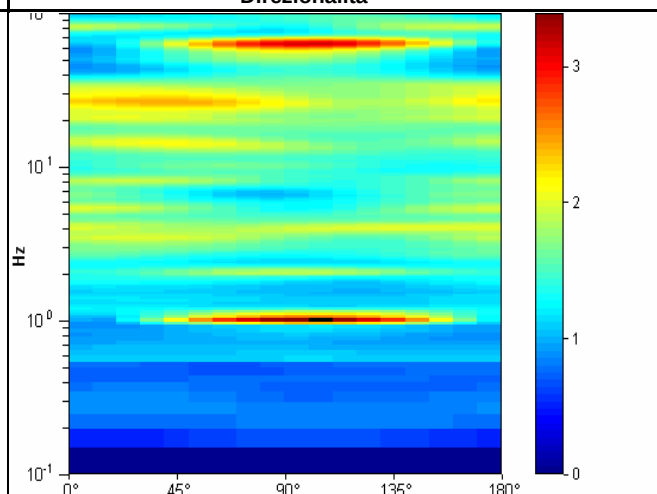
Ampiezza spettrale



Stabilità



Direzionalità

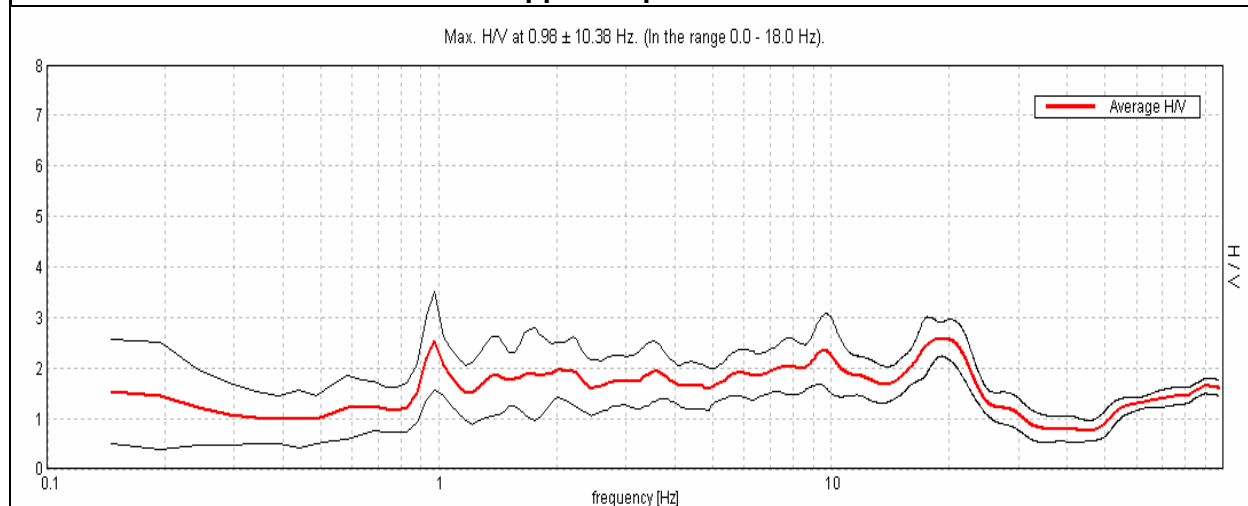


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H28
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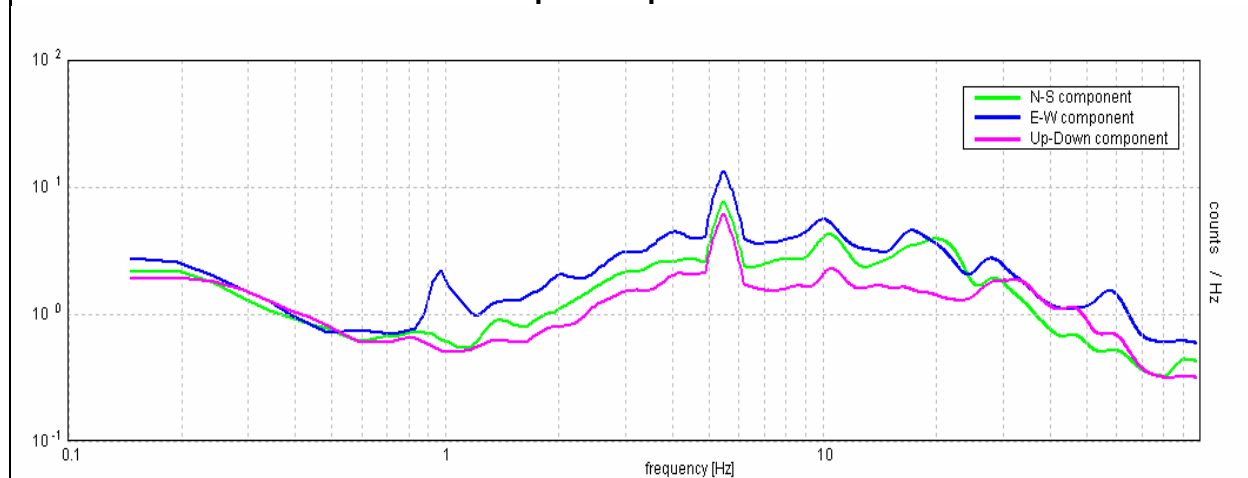
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 750 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

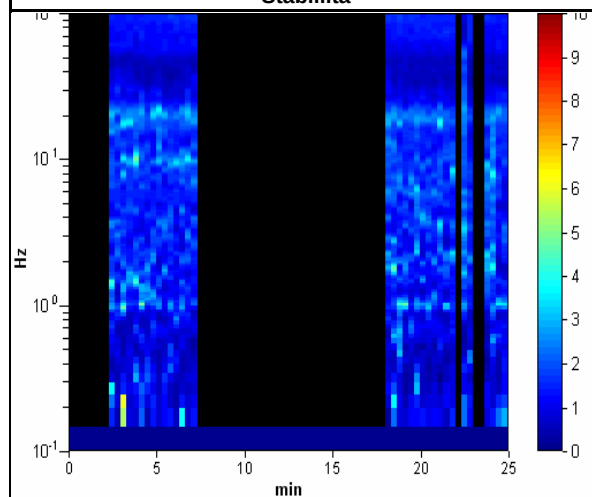
Rapporto spettrale



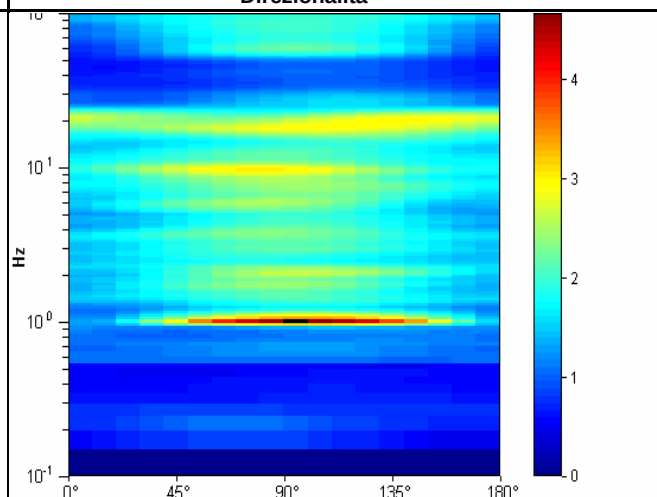
Ampiezza spettrale



Stabilità



Direzionalità

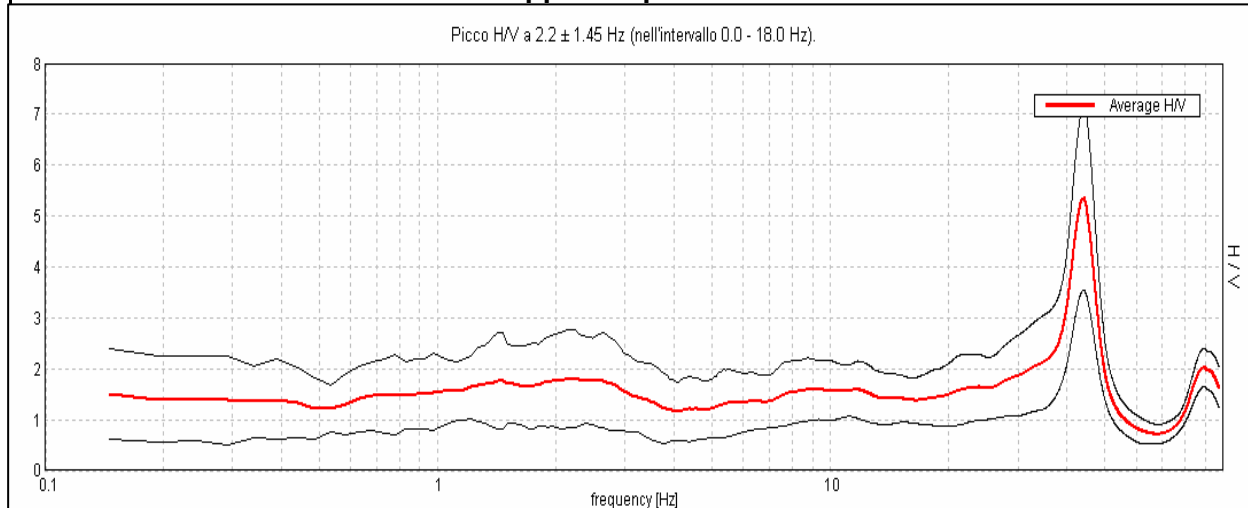


STUDIO GEOLOGICO CENTRO GEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H29
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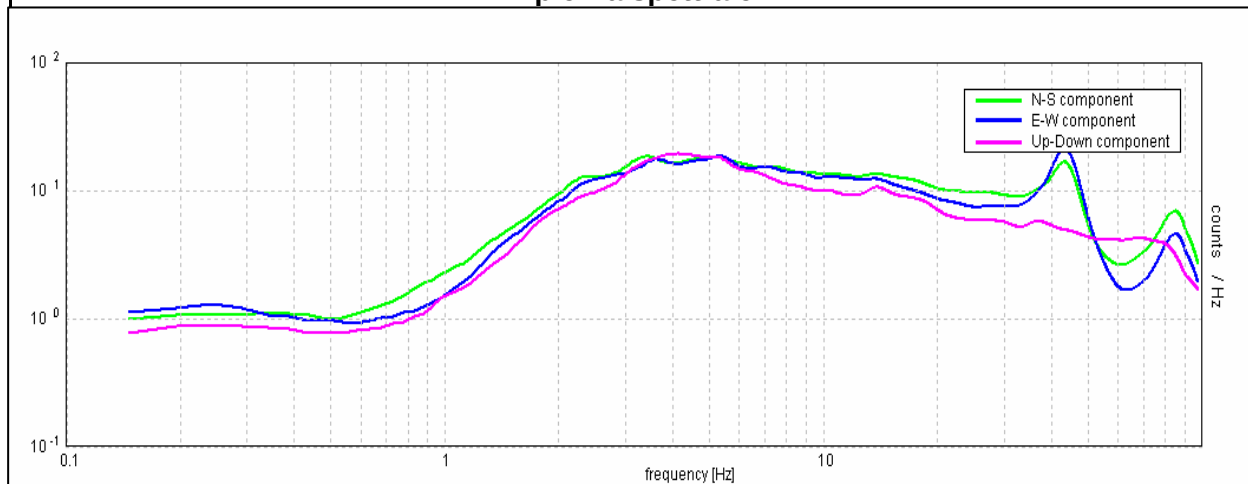
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 635 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

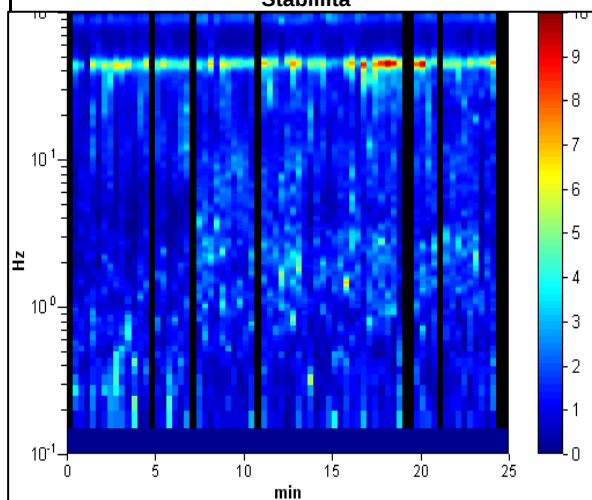
Rapporto spettrale



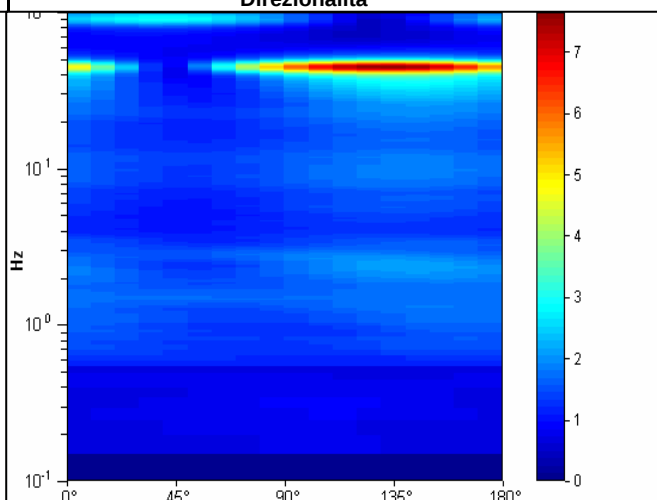
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H30

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Tolè

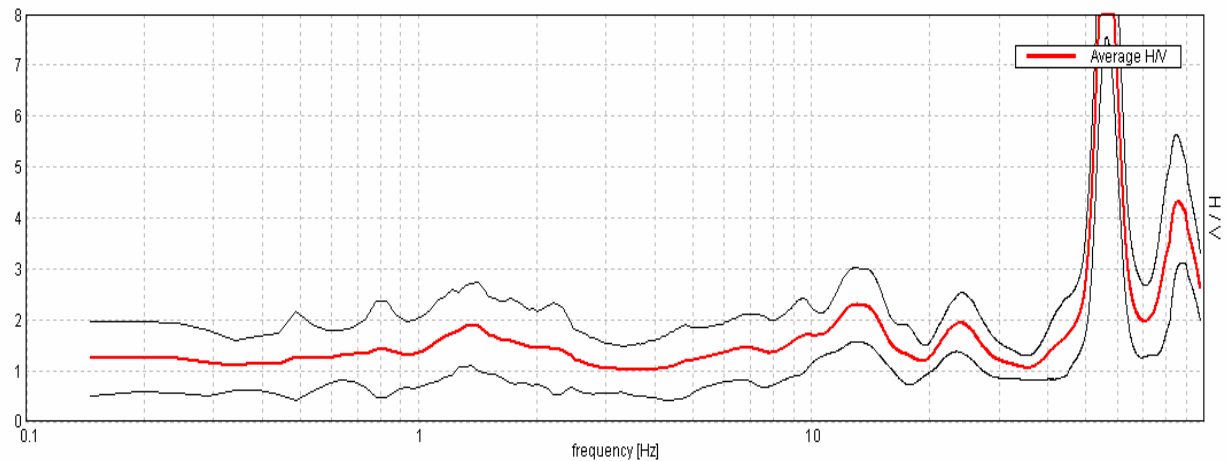
QUOTA: 660 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

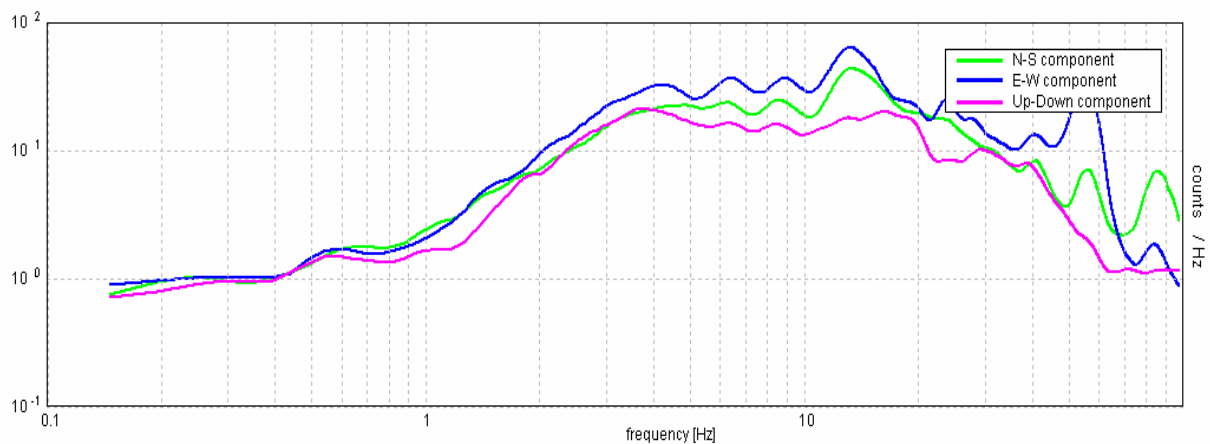
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

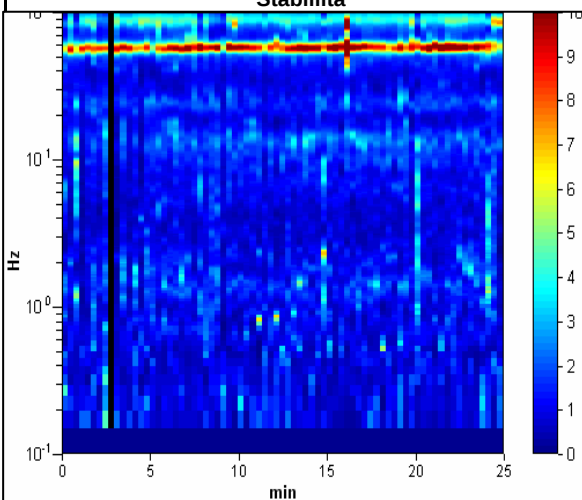
Picco HV a 13.04 ± 2.53 Hz (nell'intervallo 0.0 - 18.0 Hz).



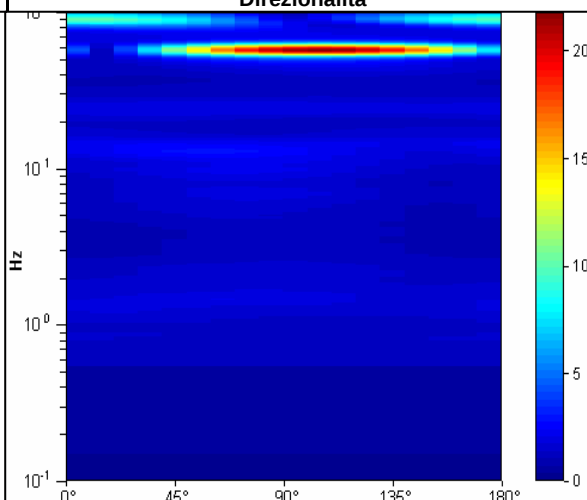
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H31

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 14-10-2013

CANTIERE: Tolè

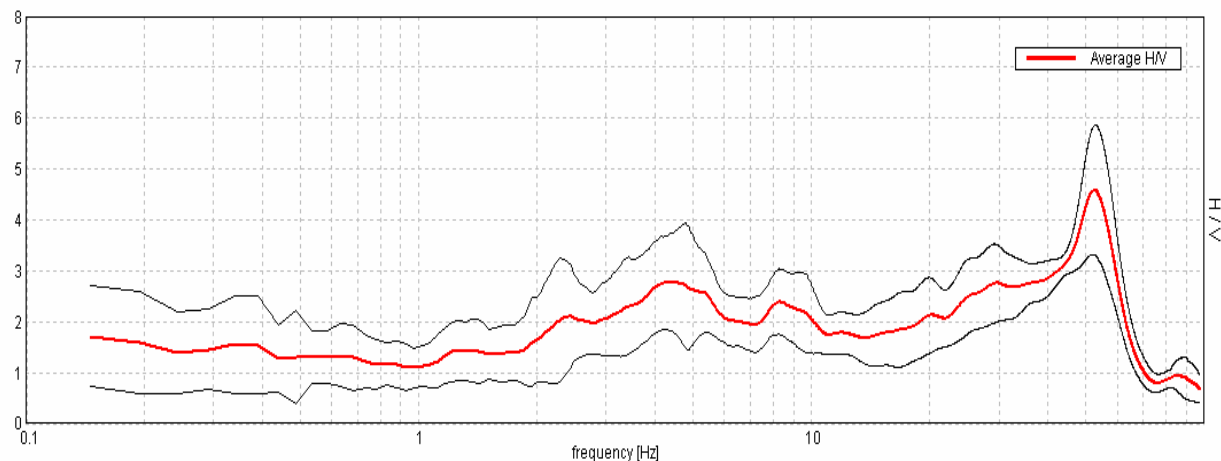
QUOTA: 720 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

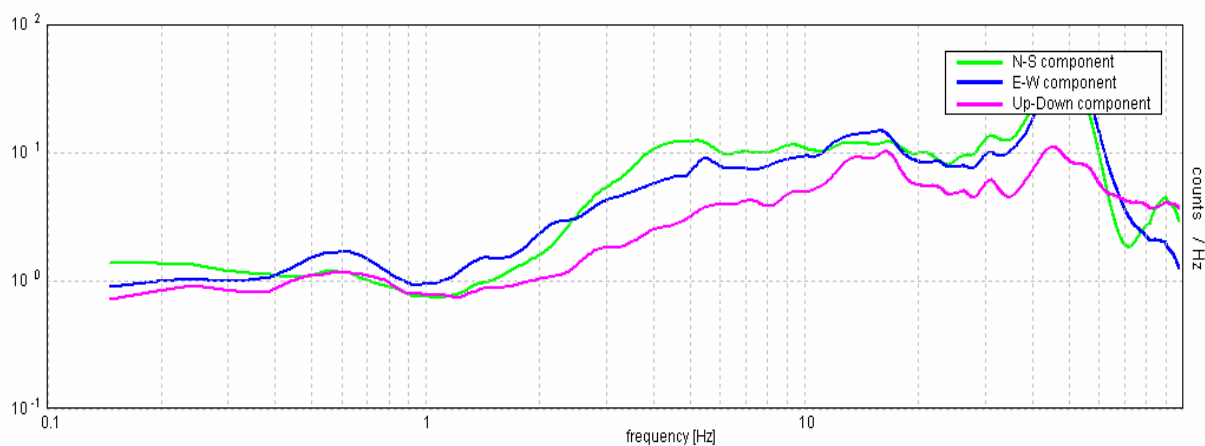
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

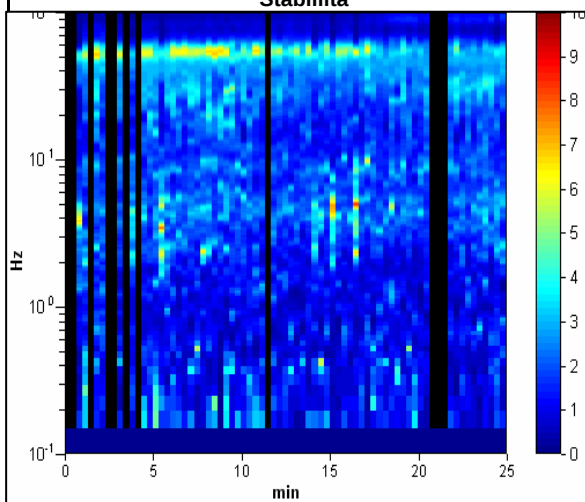
Picco H/V a 4.49 ± 0.21 Hz (nell'intervallo 0.0 - 18.0 Hz).



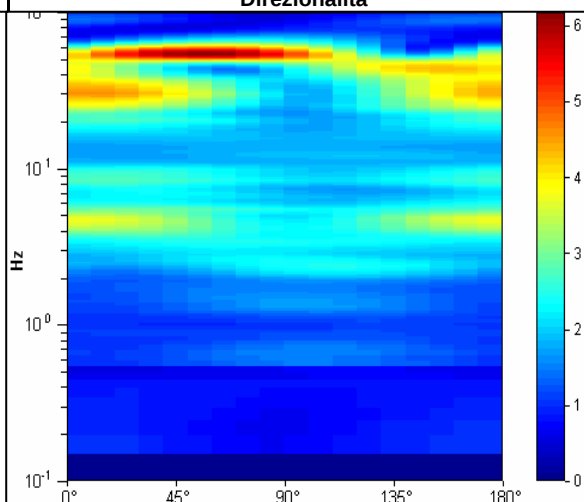
Ampiezza spettrale



Stabilità



Direzionalità

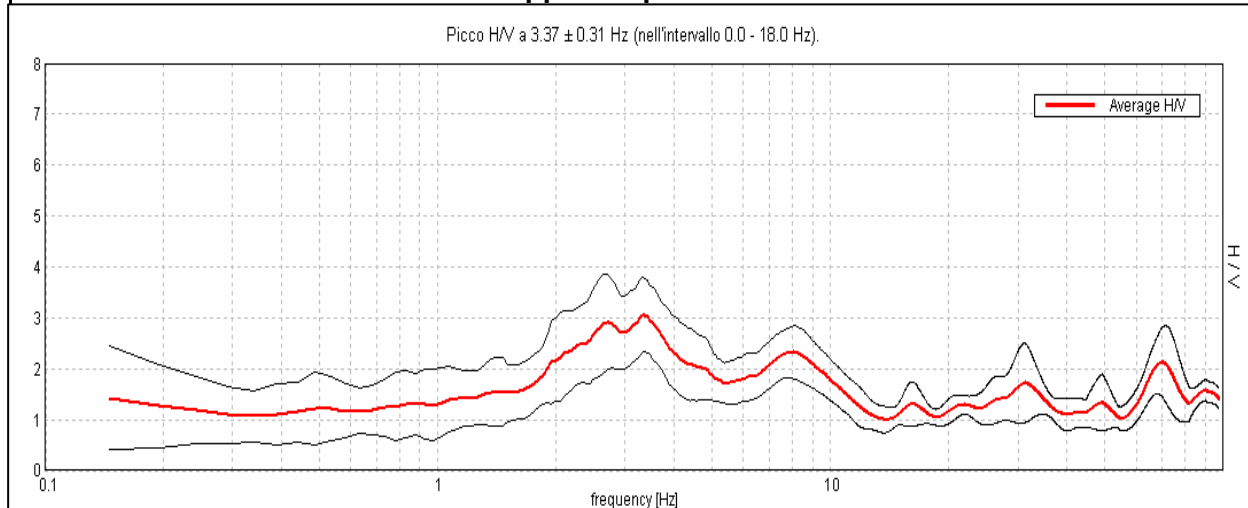


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H32
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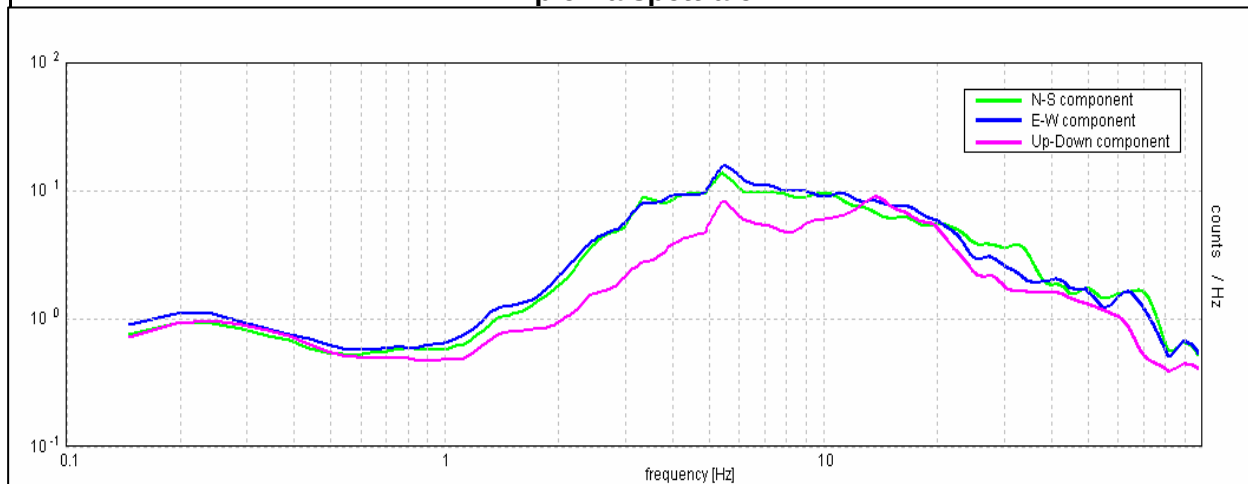
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 630 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

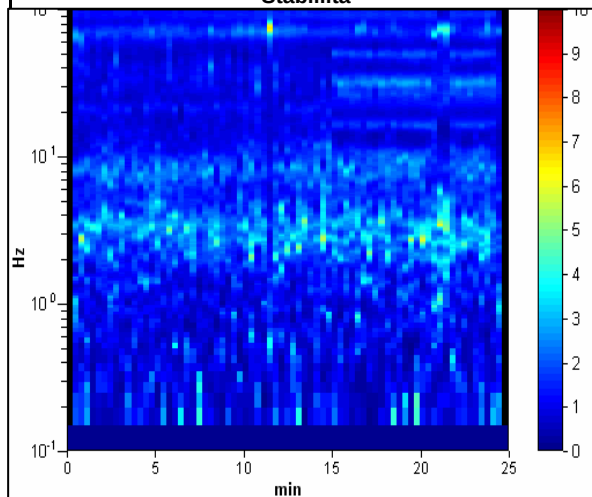
Rapporto spettrale



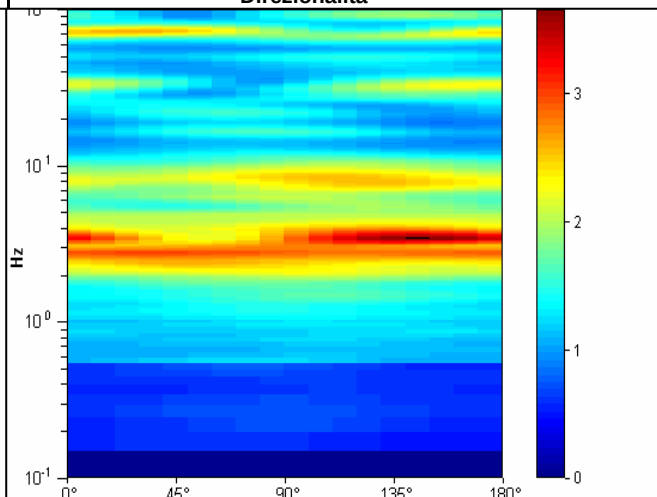
Ampiezza spettrale



Stabilità



Direzionalità

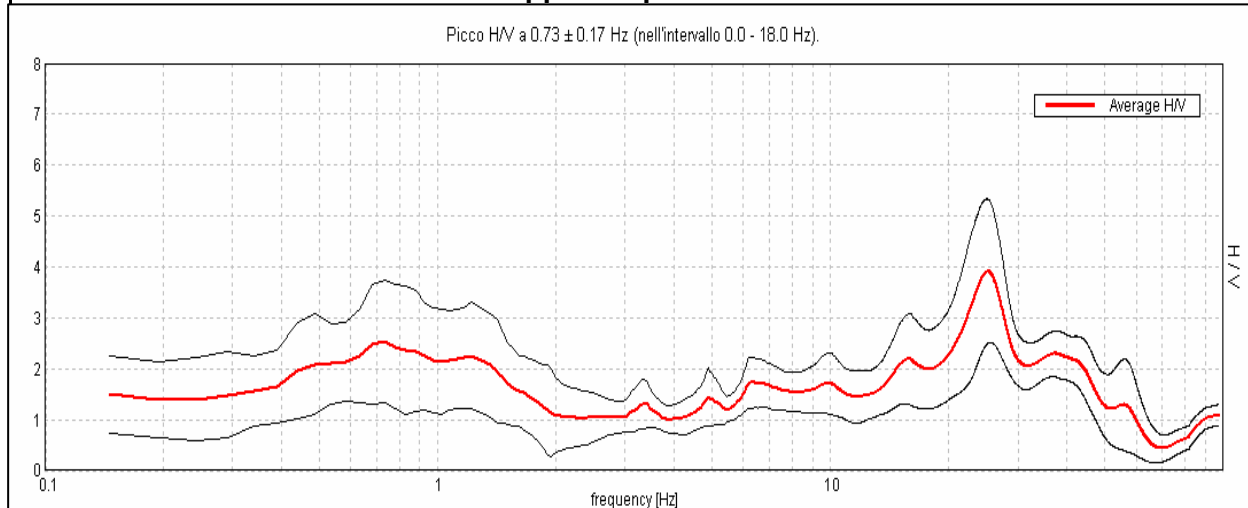


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H33
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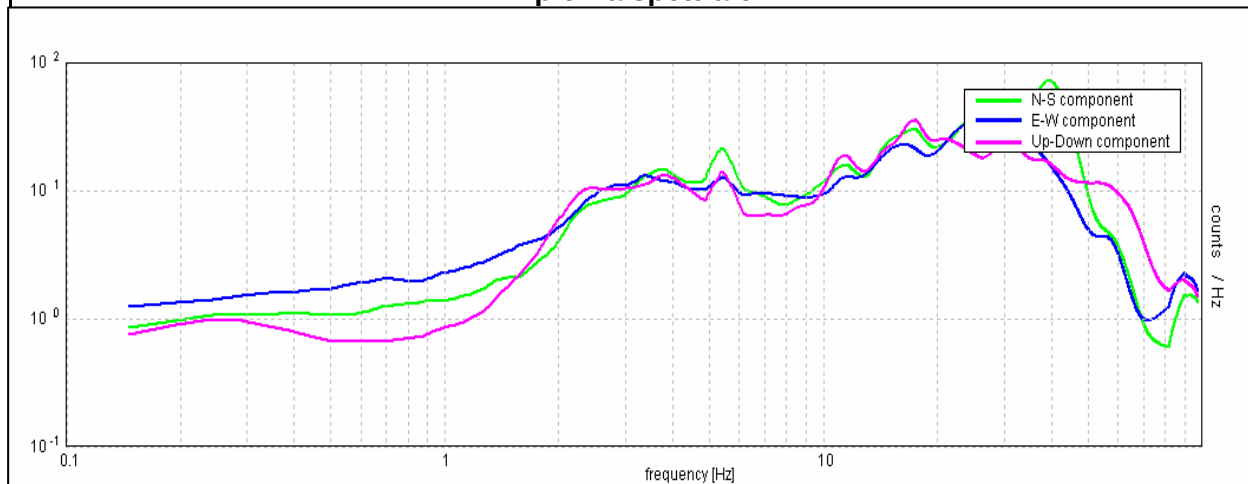
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 710 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

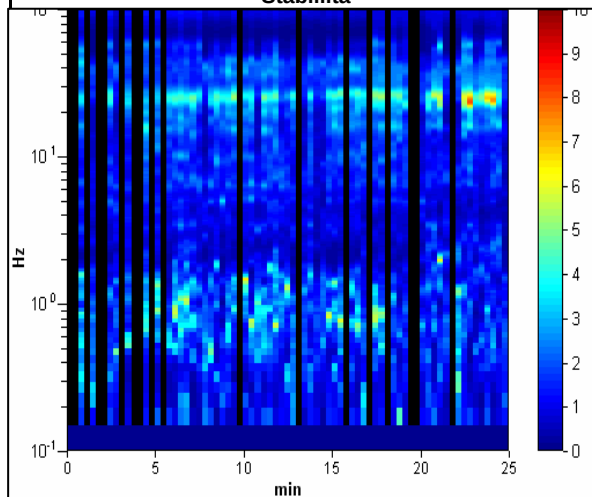
Rapporto spettrale



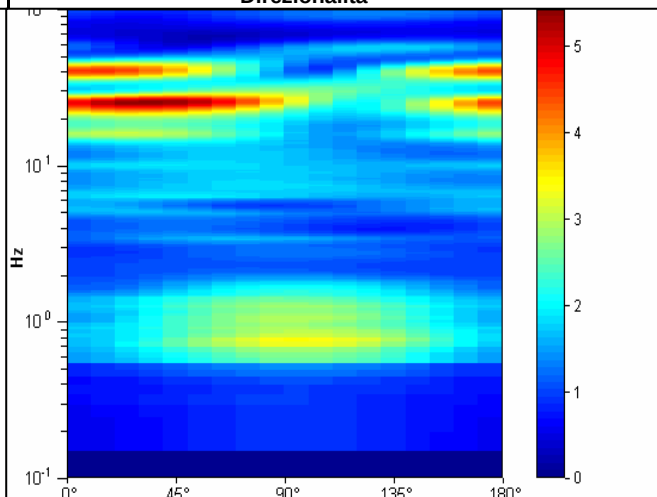
Ampiezza spettrale



Stabilità



Direzionalità

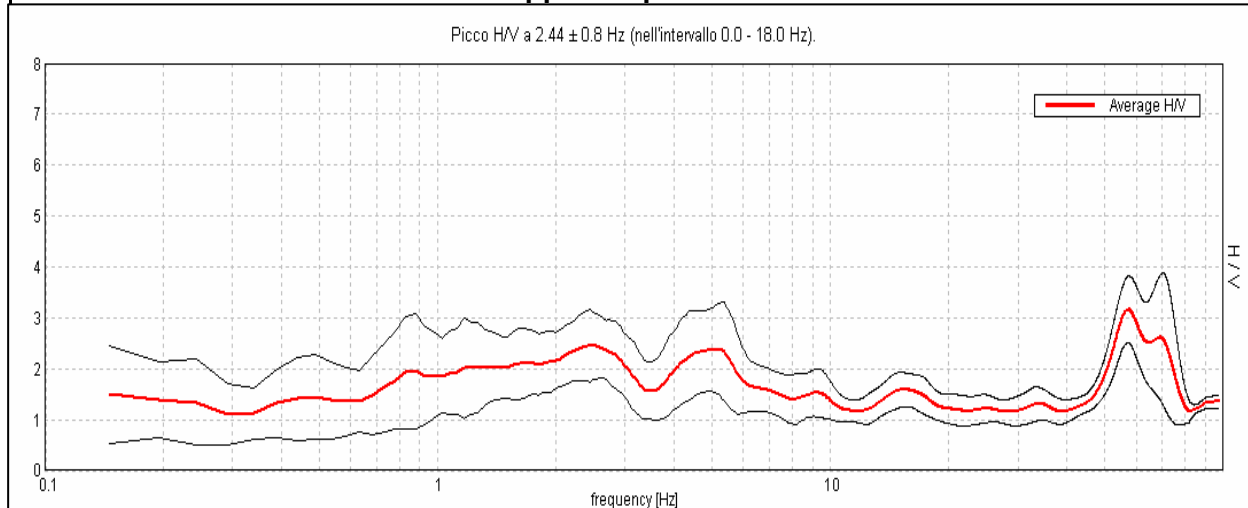


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H34
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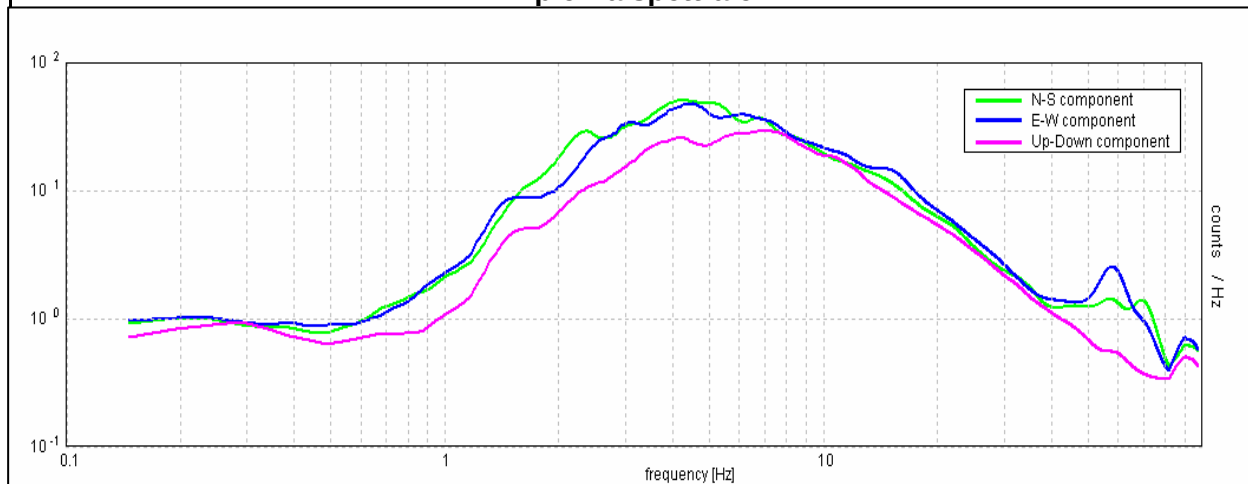
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 15-10-2013	CANTIERE: Cereglio
QUOTA: 625 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

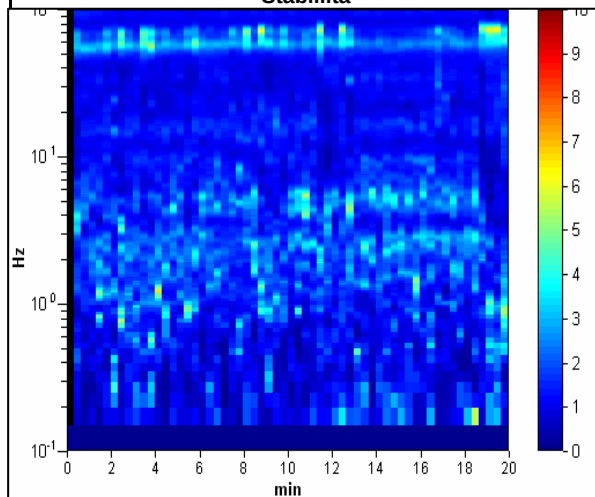
Rapporto spettrale



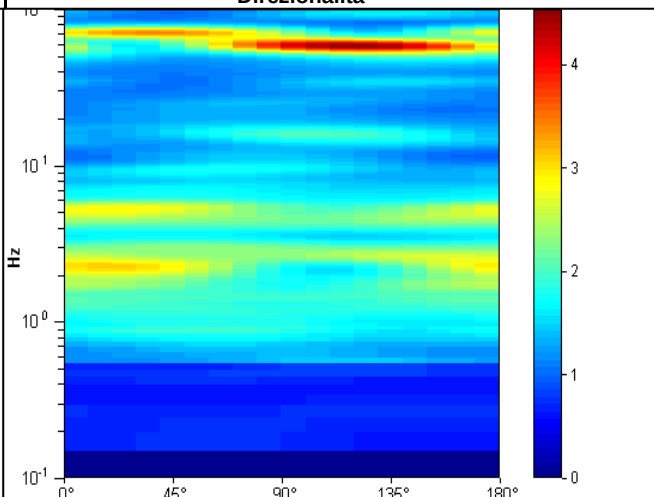
Ampiezza spettrale



Stabilità



Direzionalità

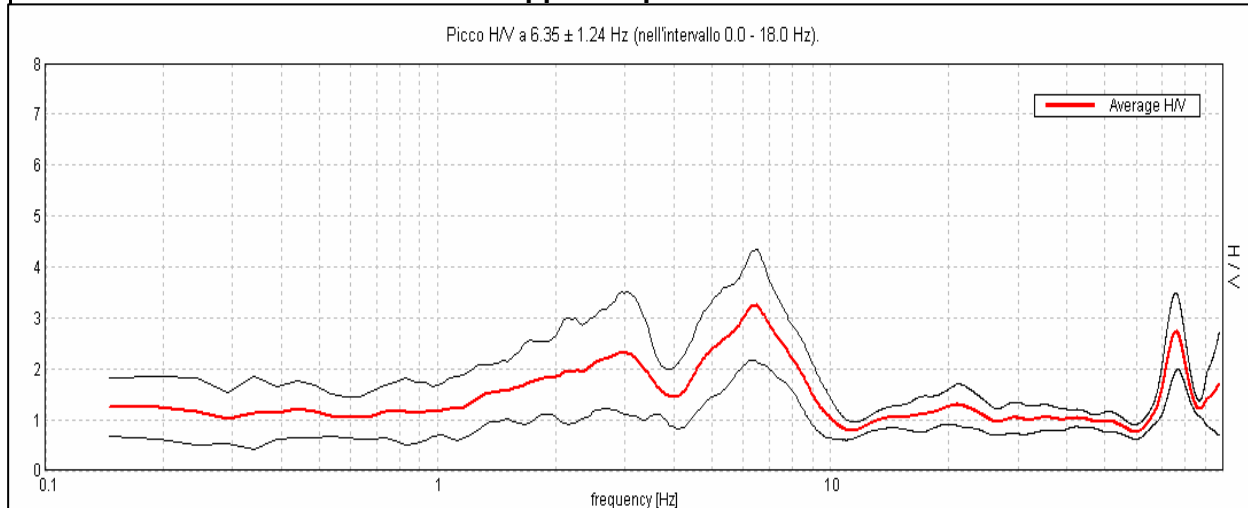


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H35
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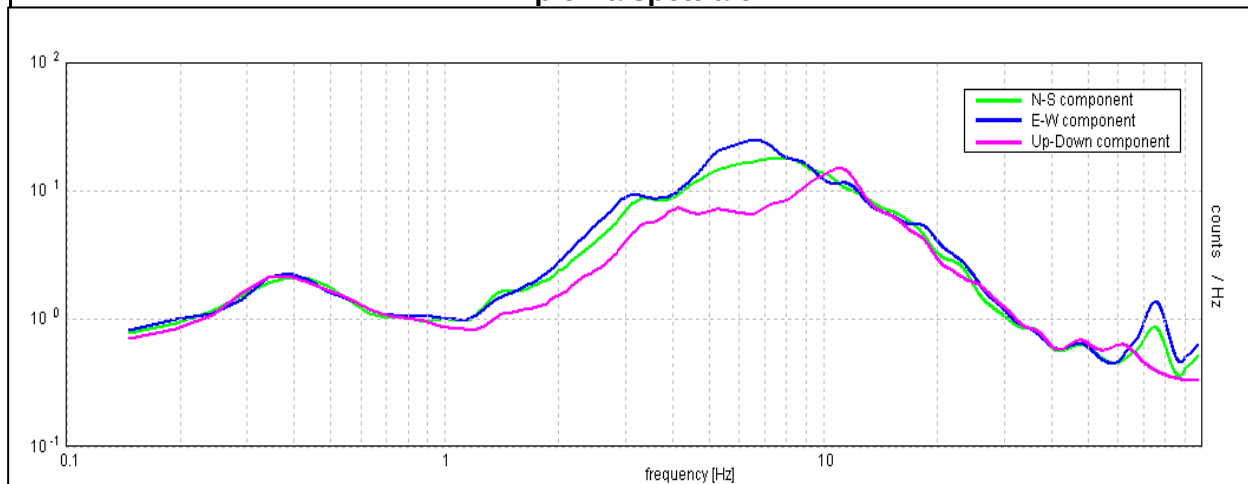
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Cereglio
QUOTA: 650 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

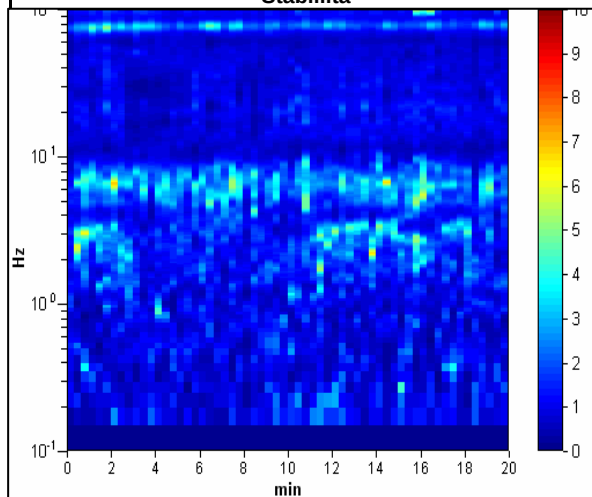
Rapporto spettrale



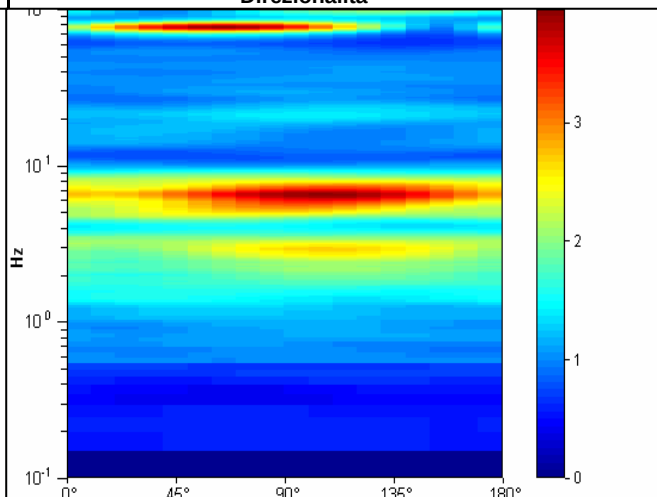
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H36

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Cereglio

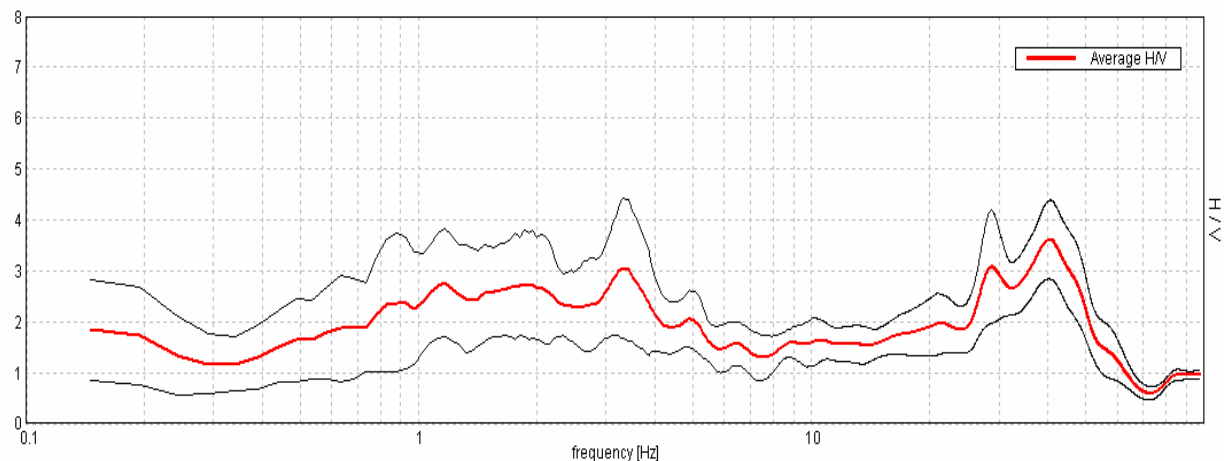
QUOTA: 600 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

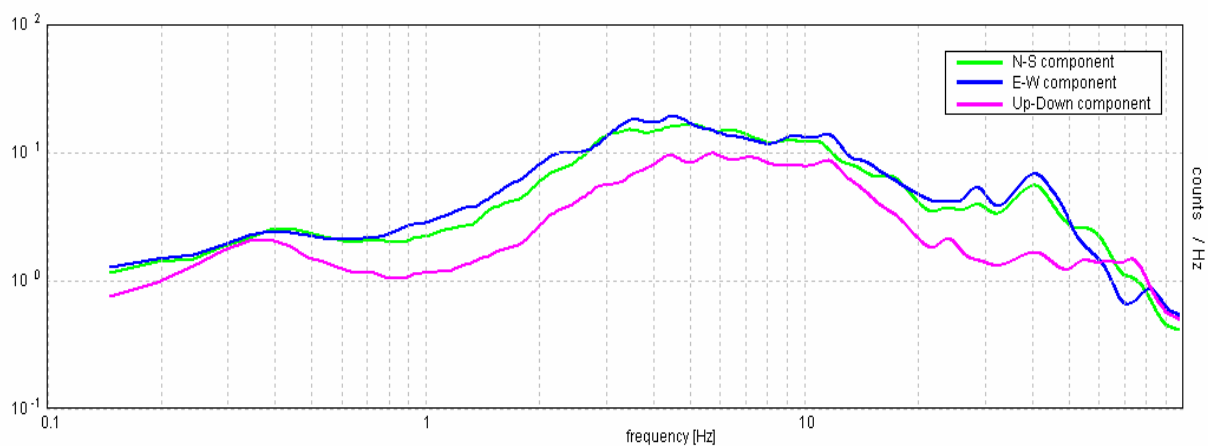
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

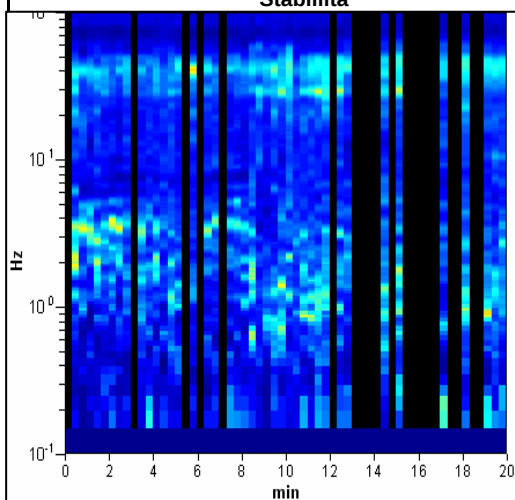
Picco H/V a 3.32 ± 0.24 Hz (nell'intervallo 0.0 - 18.0 Hz).



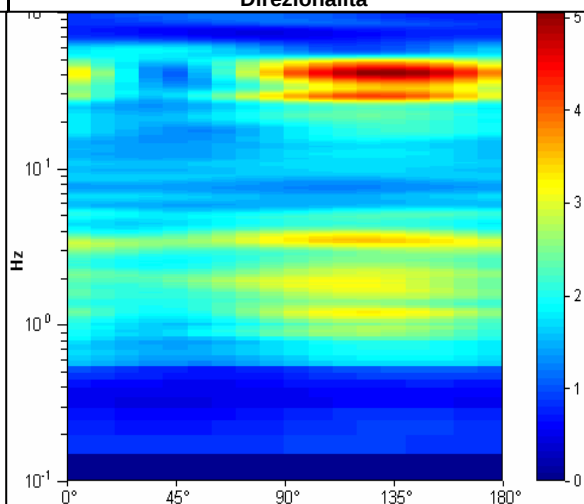
Ampiezza spettrale



Stabilità



Direzionalità

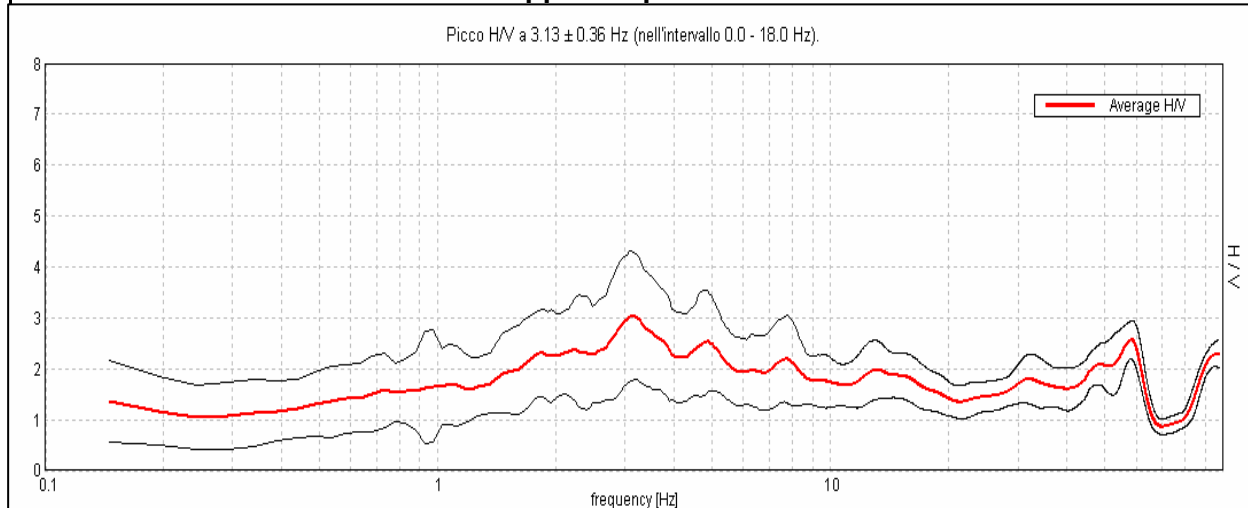


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H37
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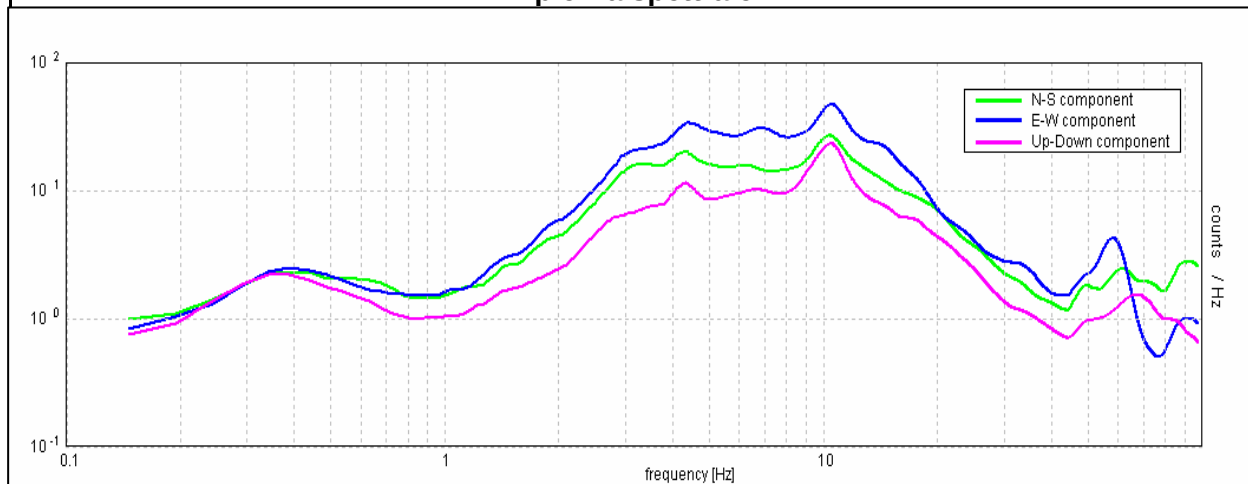
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Cereglio
QUOTA: 610 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

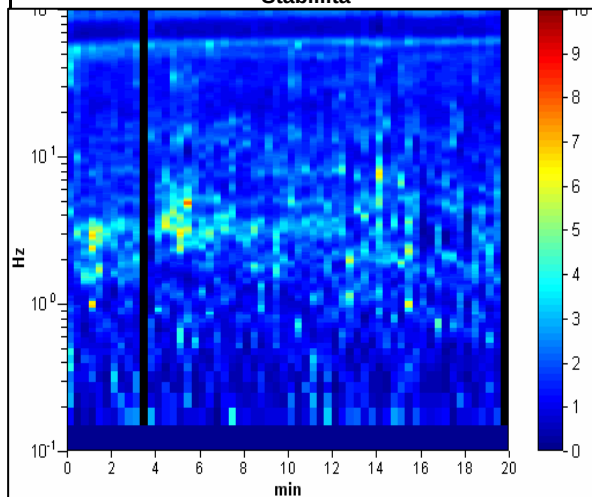
Rapporto spettrale



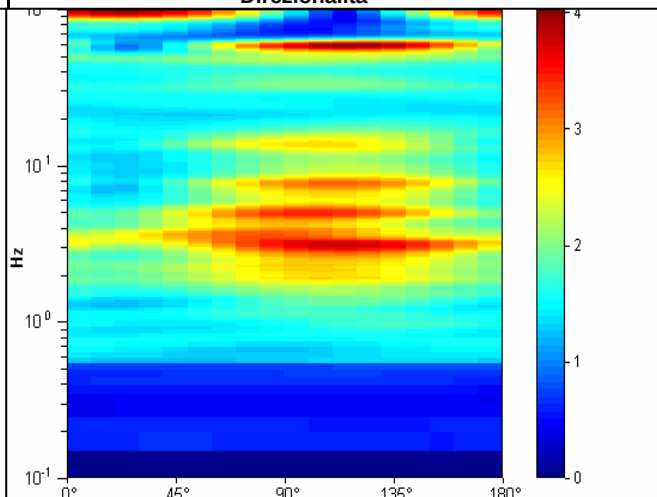
Ampiezza spettrale



Stabilità



Direzionalità

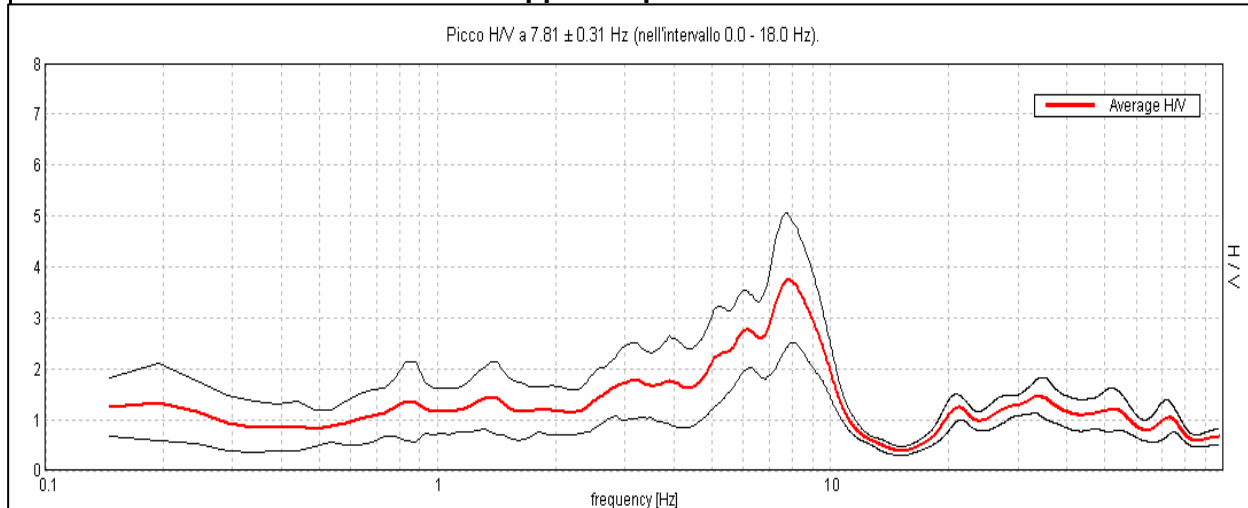


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H38
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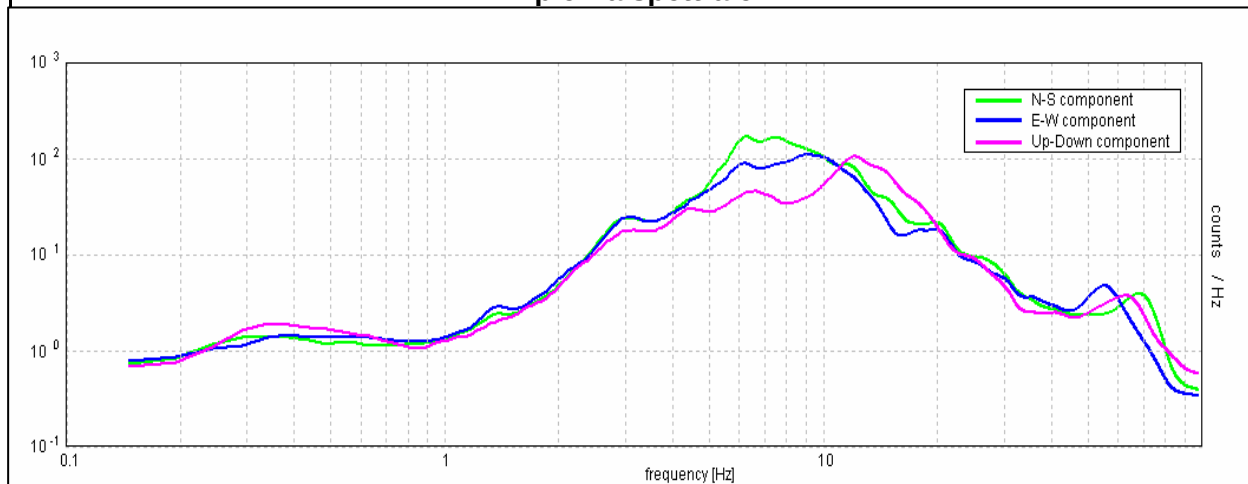
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 295 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

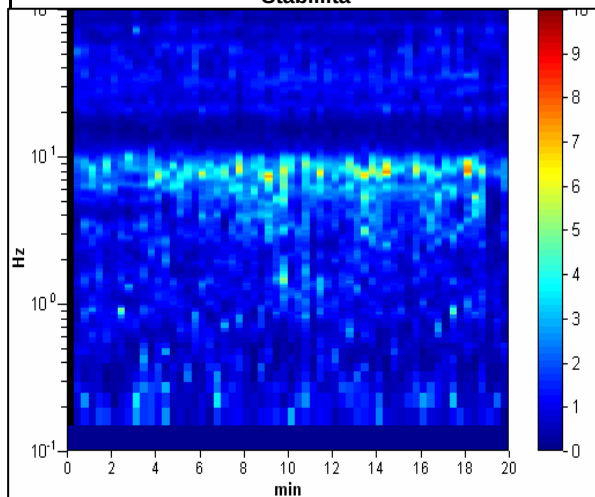
Rapporto spettrale



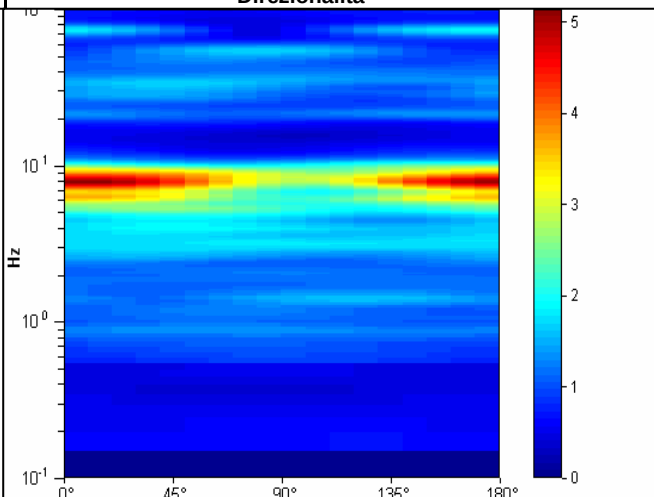
Ampiezza spettrale



Stabilità



Direzionalità

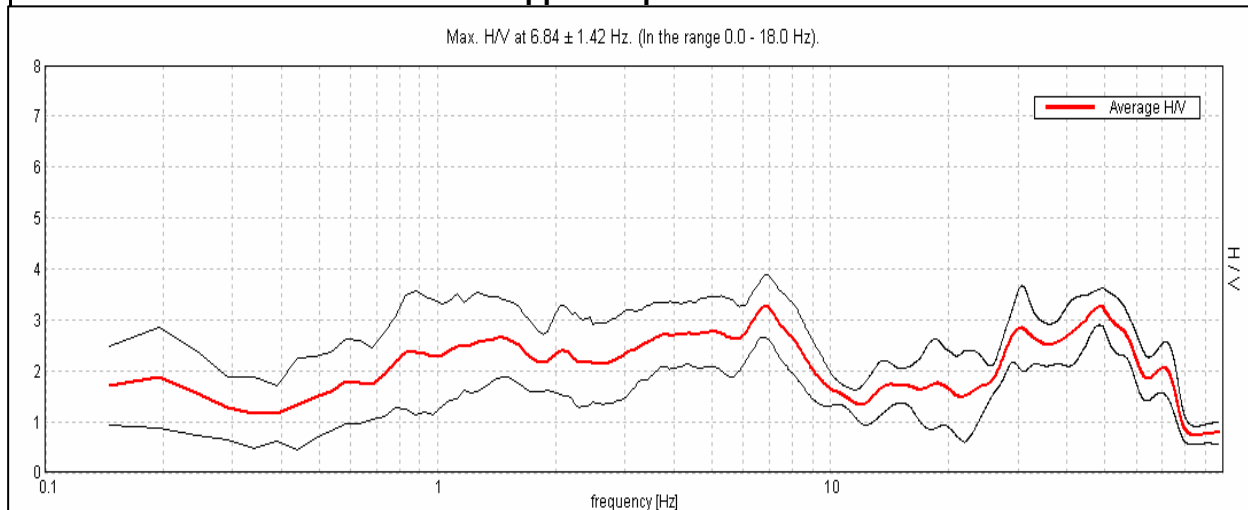


STUDIO GEOLOGICO CENTROGEO P.zza S. Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H39
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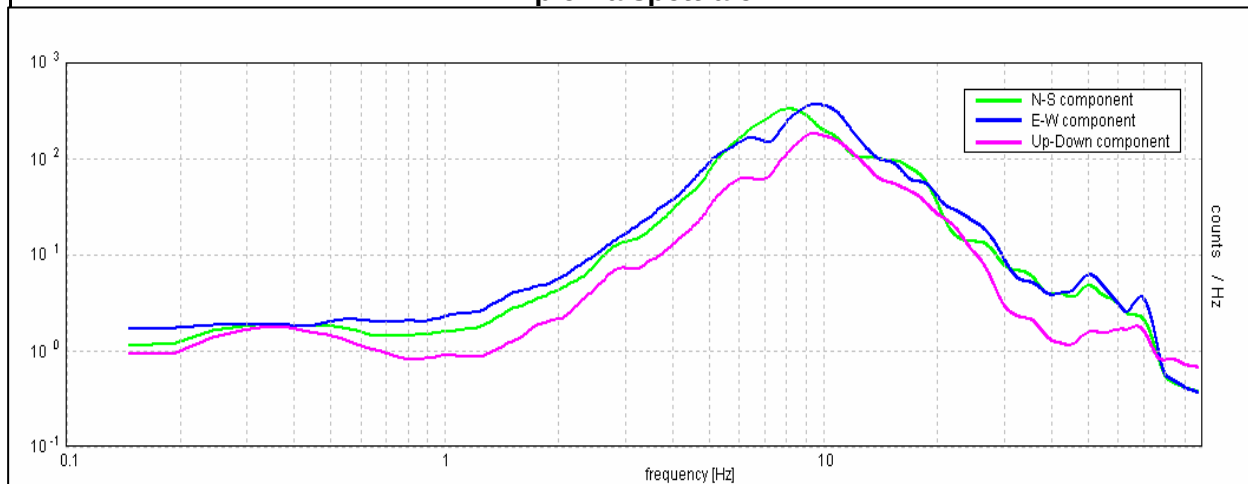
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 320 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

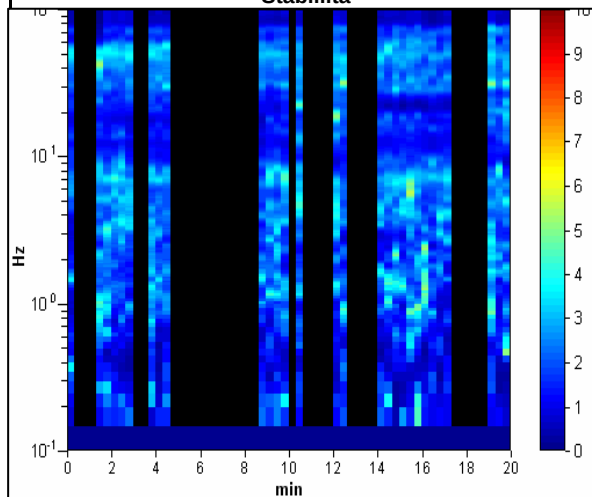
Rapporto spettrale



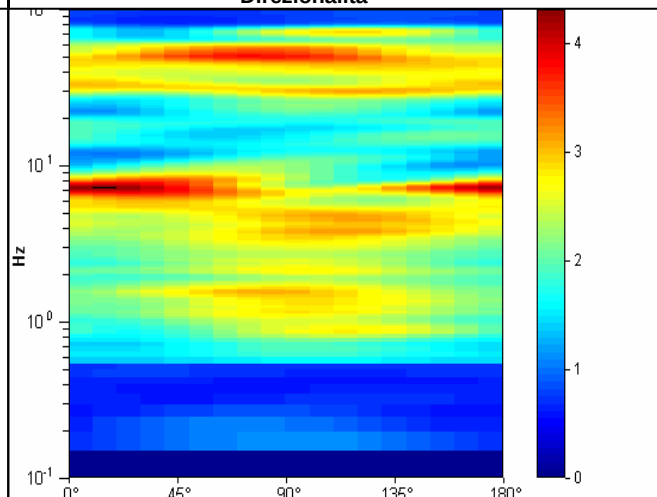
Ampiezza spettrale



Stabilità



Direzionalità

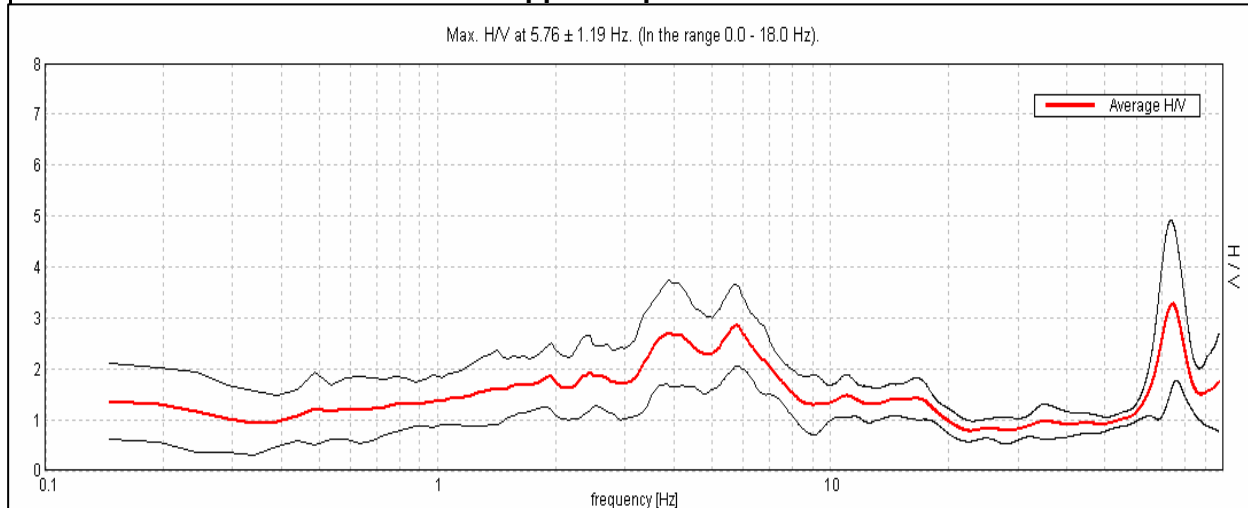


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H40
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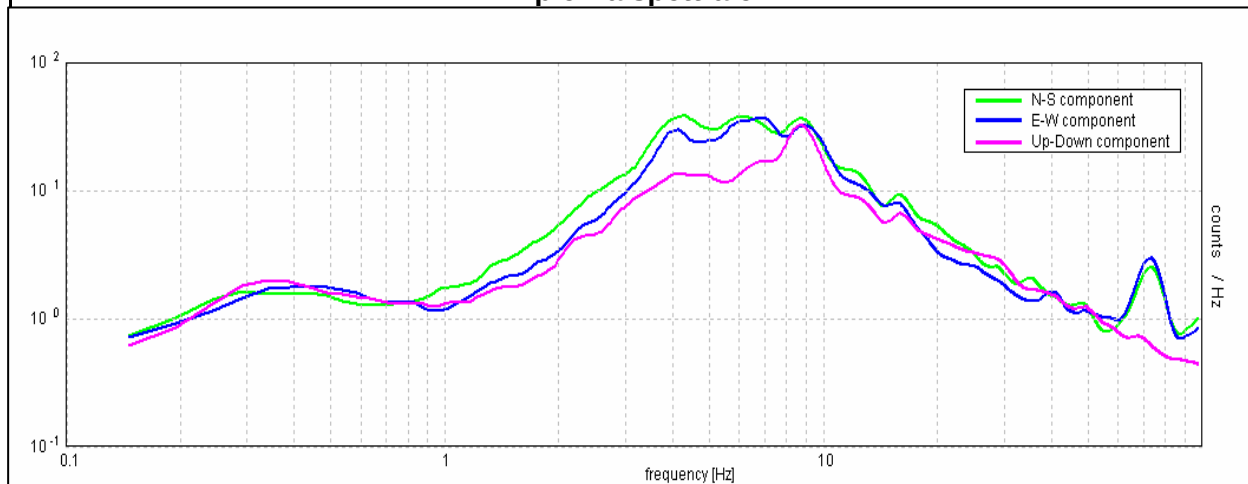
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Riola
QUOTA: 305 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

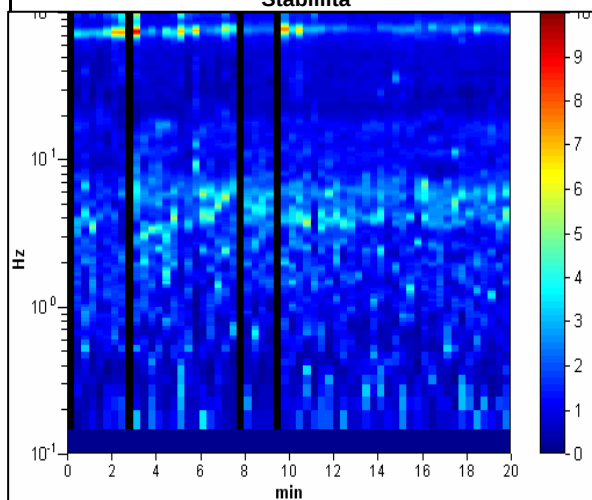
Rapporto spettrale



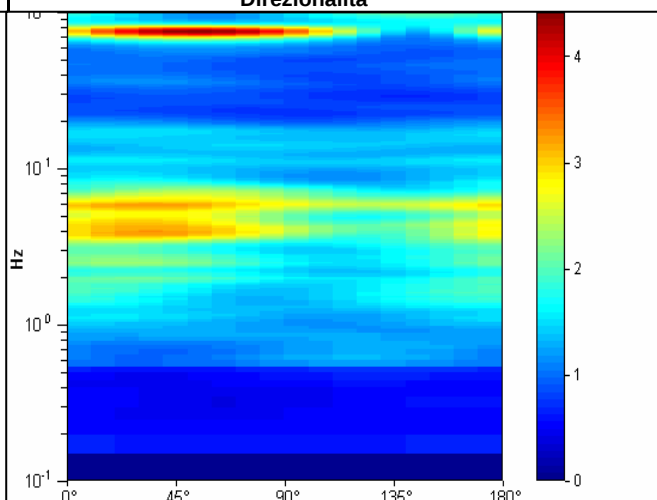
Ampiezza spettrale

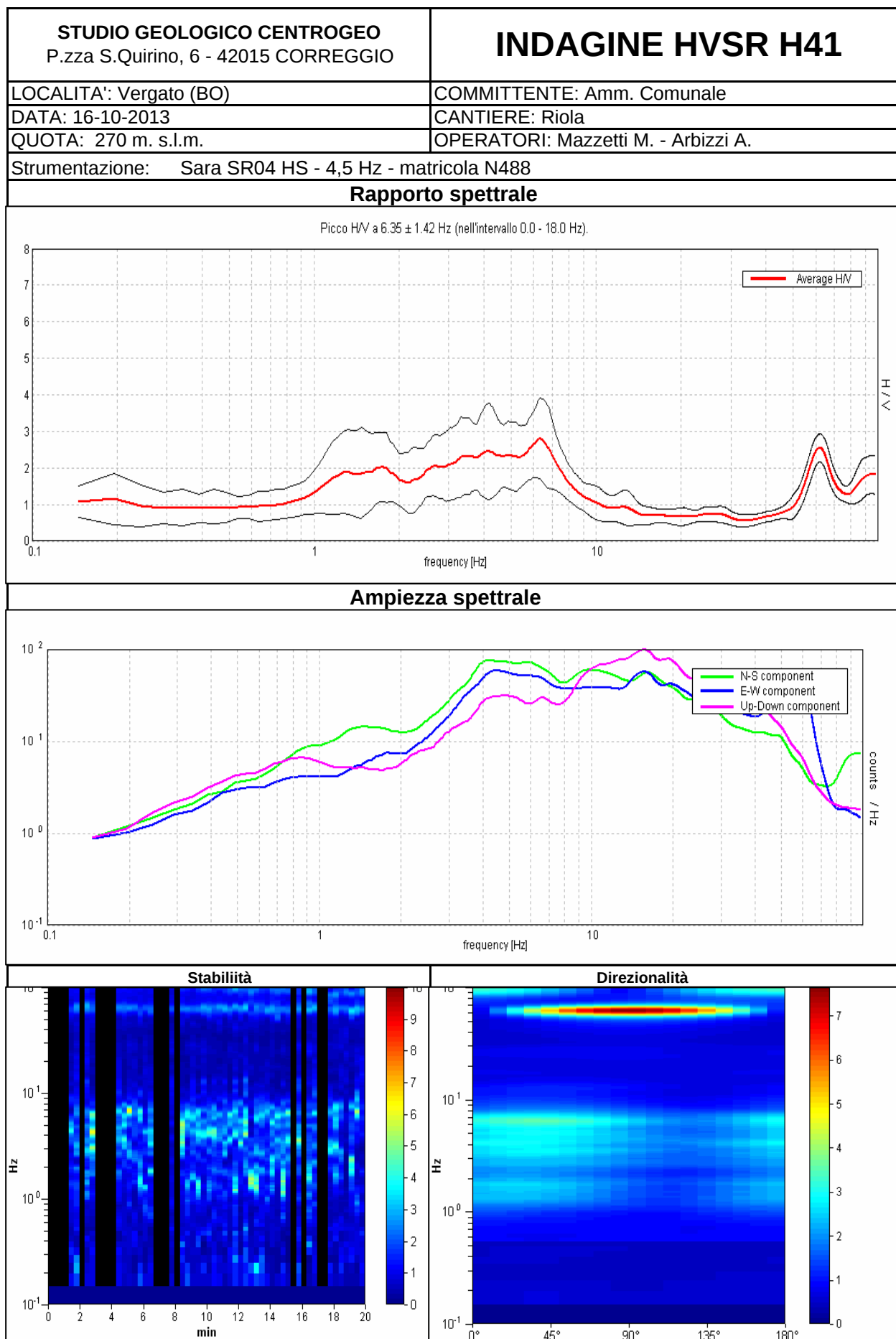


Stabilità



Direzionalità



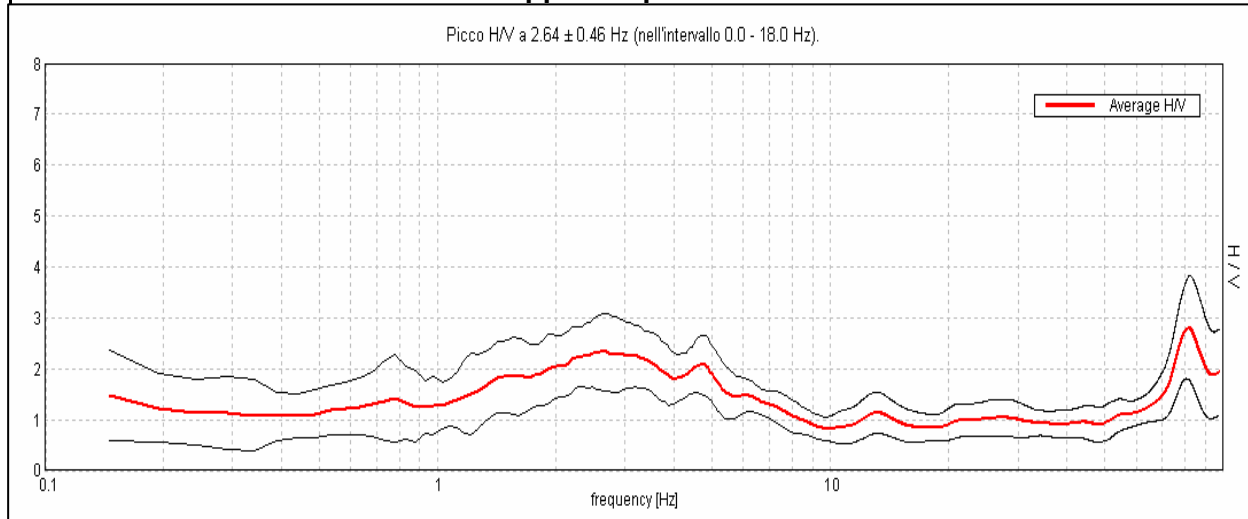


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H42
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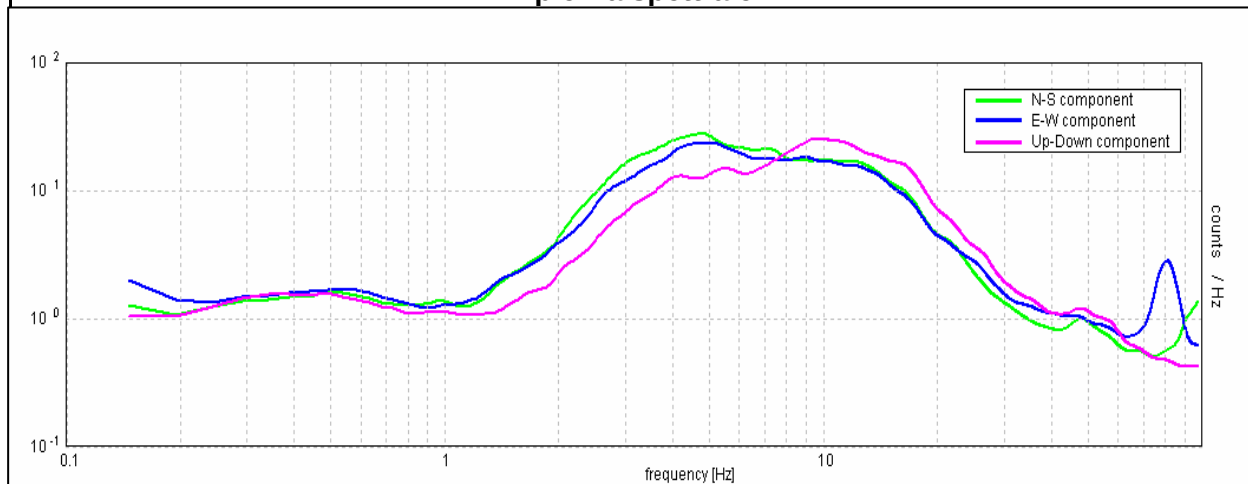
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 230 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

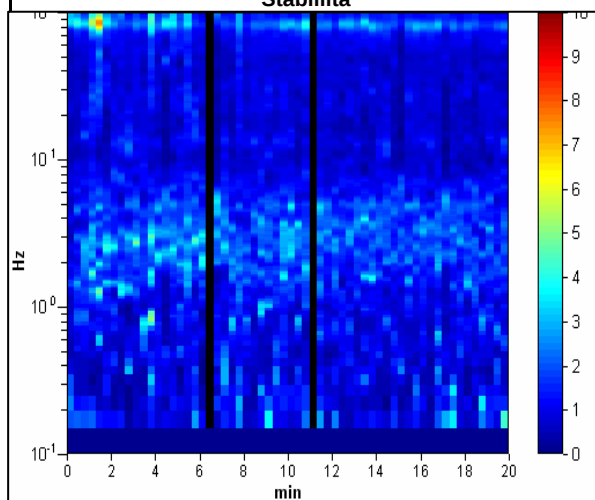
Rapporto spettrale



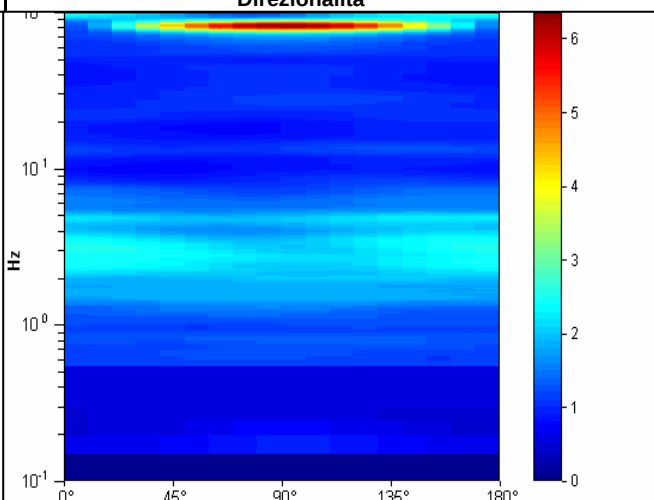
Ampiezza spettrale

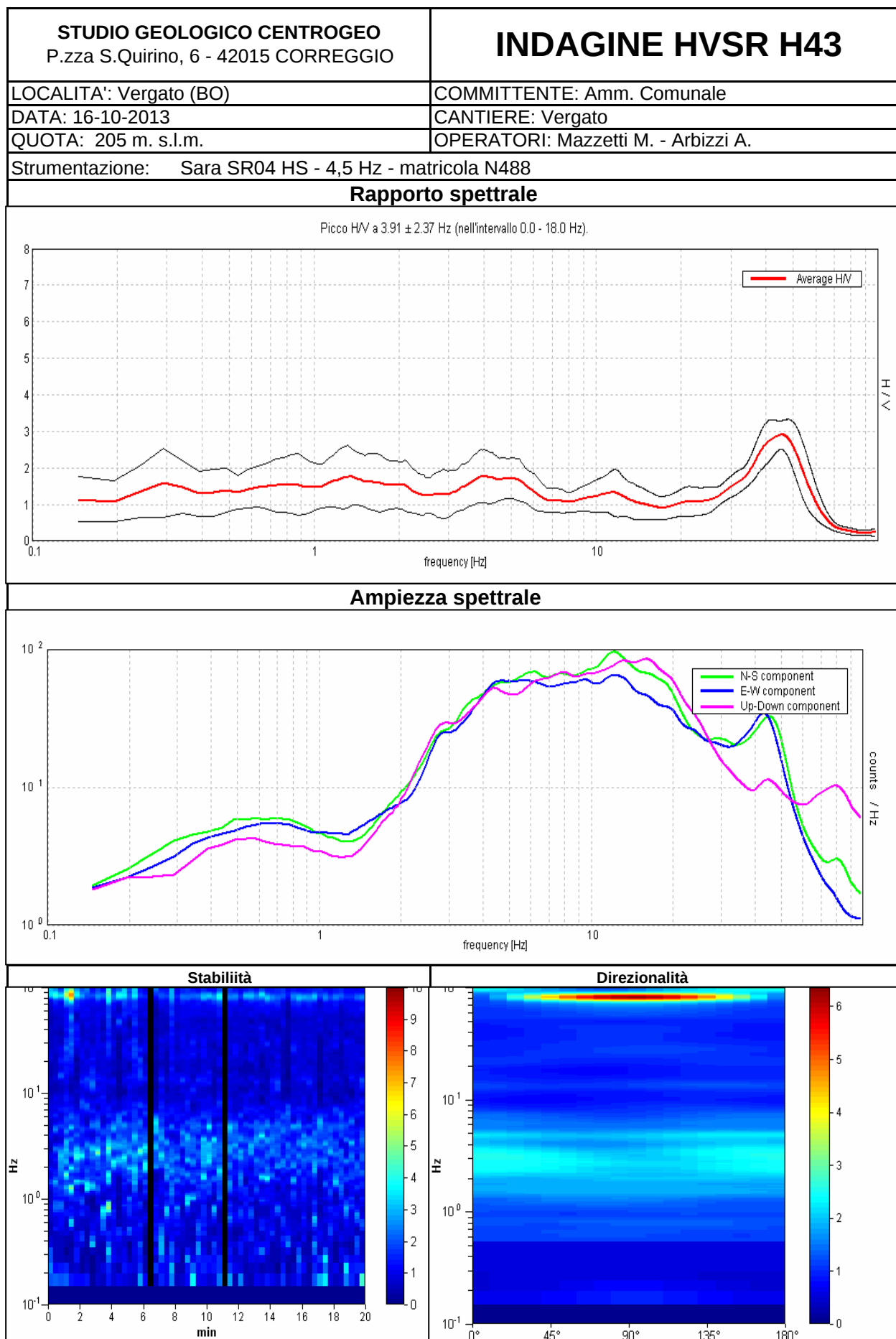


Stabilità



Direzionalità



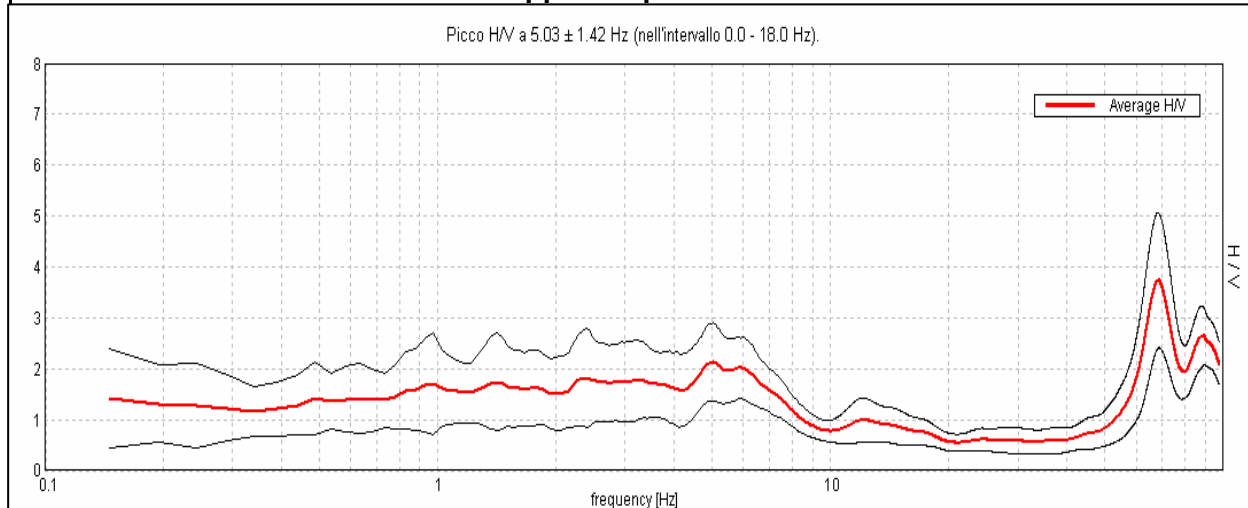


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H44
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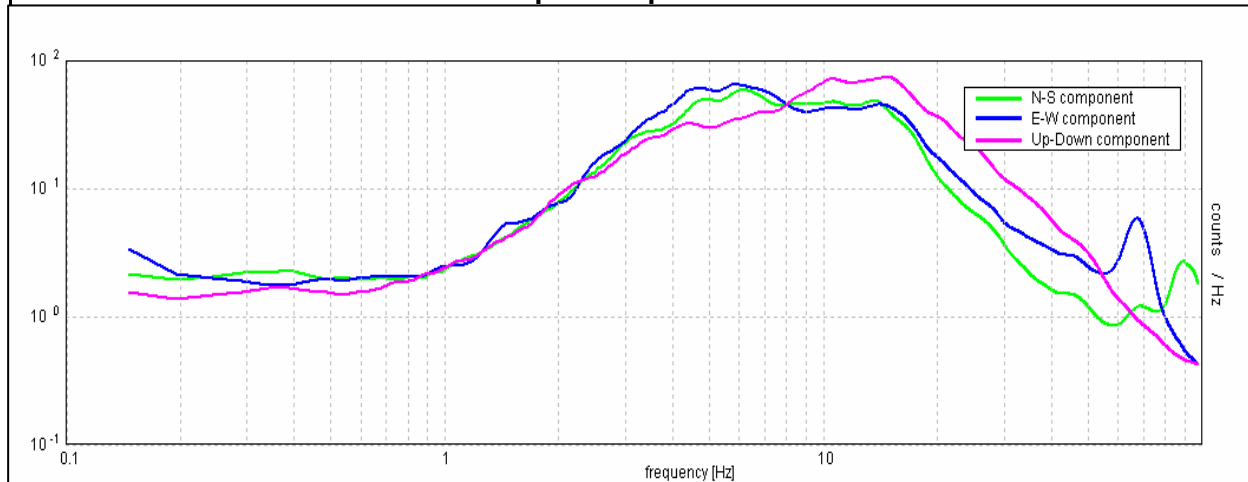
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 220 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

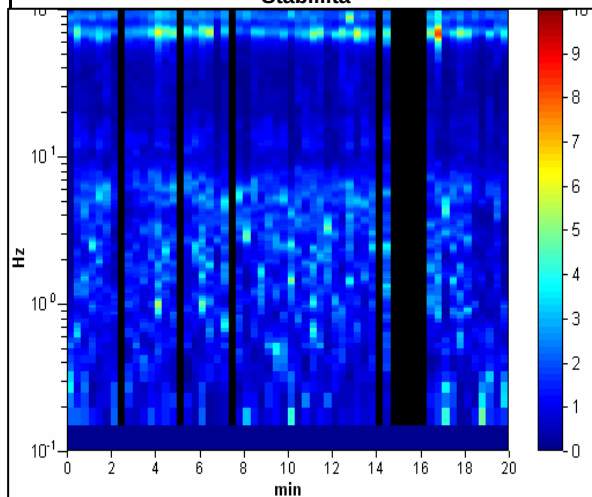
Rapporto spettrale



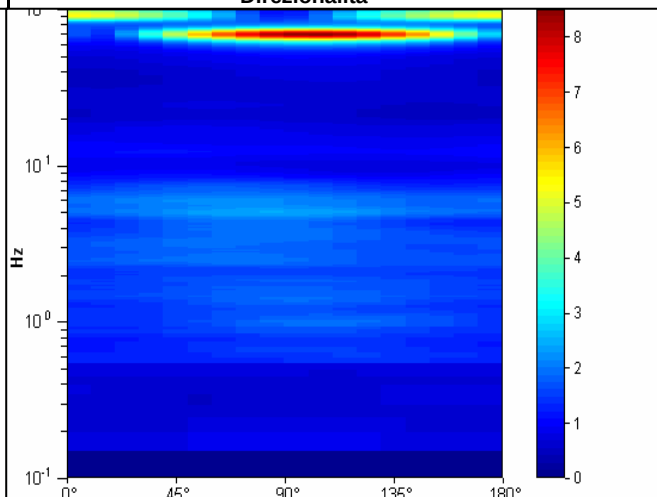
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H45

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Vergato

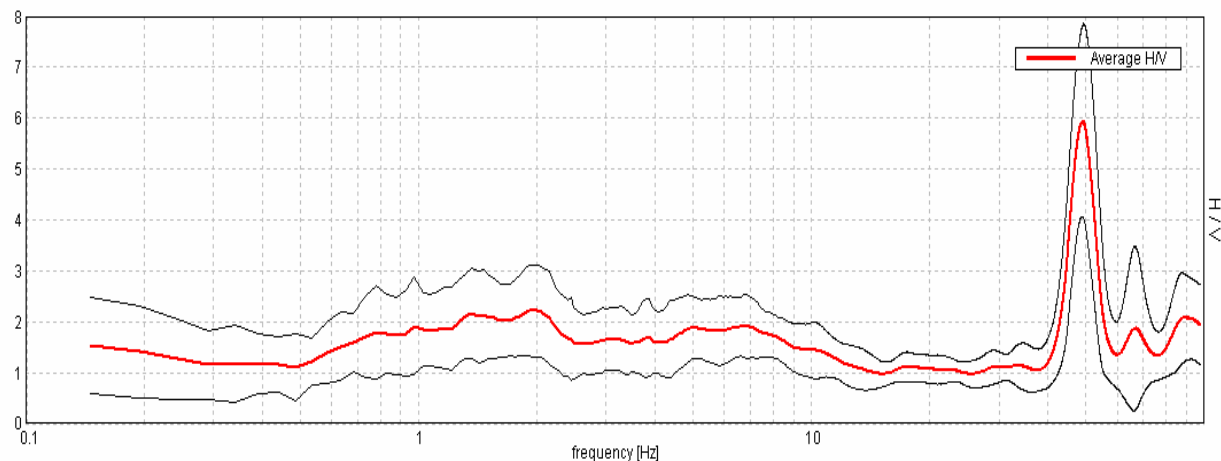
QUOTA: 220 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

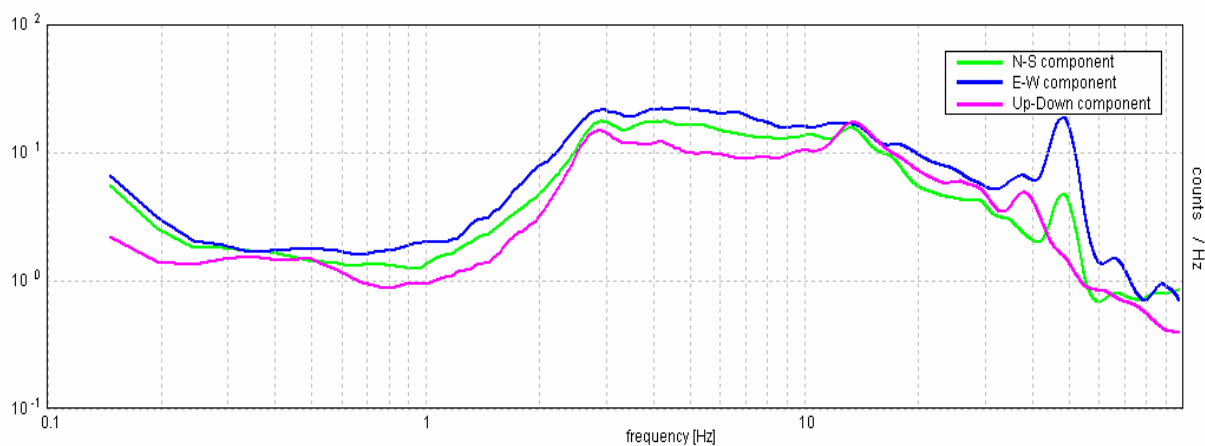
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

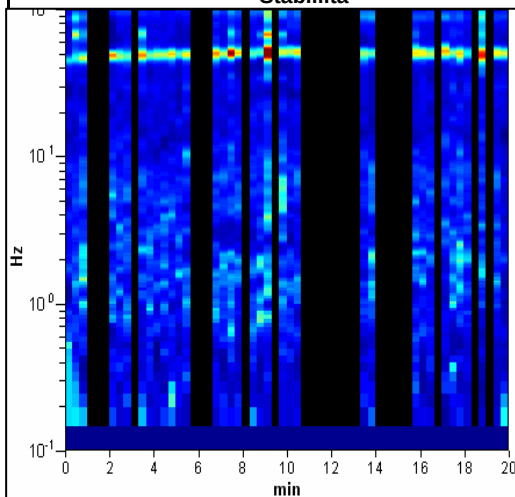
Max. H/V at 1.9 ± 0.89 Hz. (In the range 0.0 - 18.0 Hz).



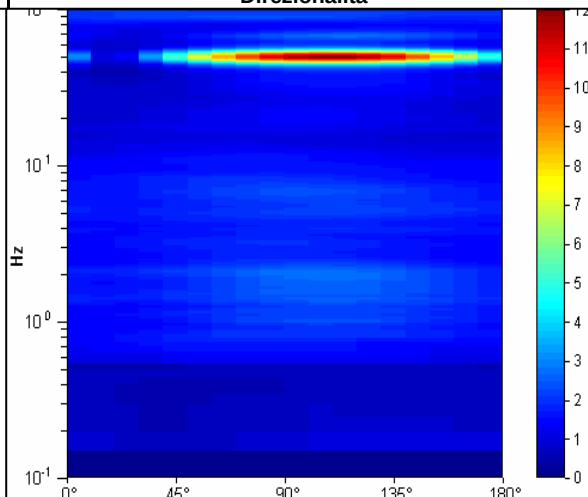
Ampiezza spettrale



Stabilità



Direzionalità

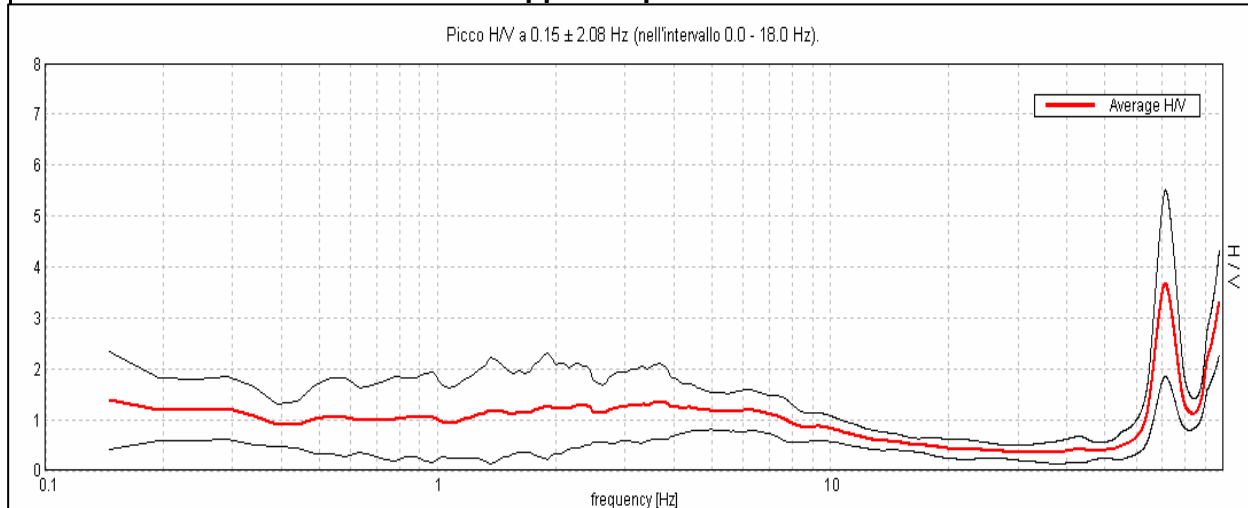


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H46
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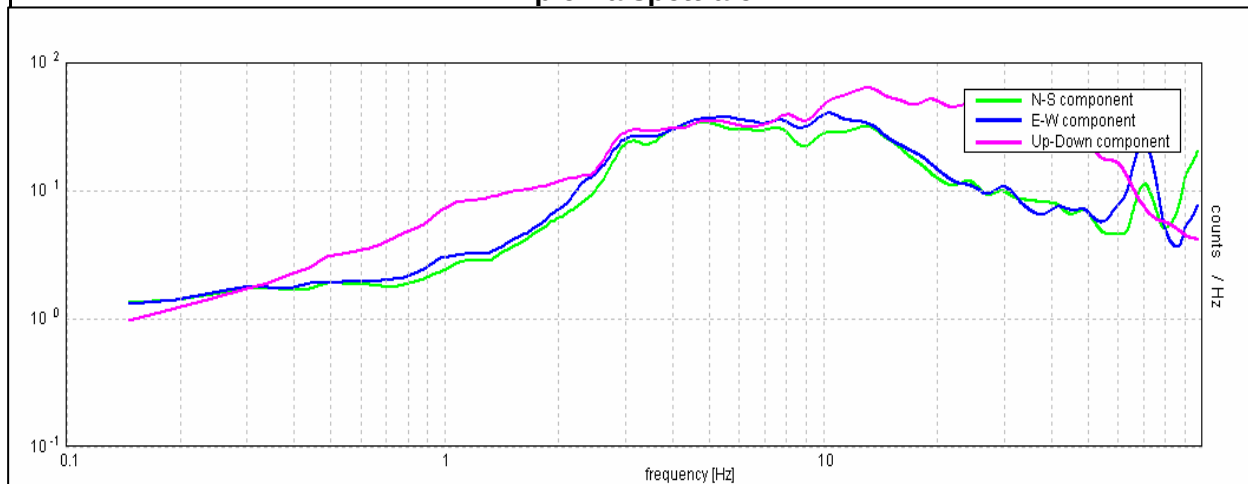
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 205 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

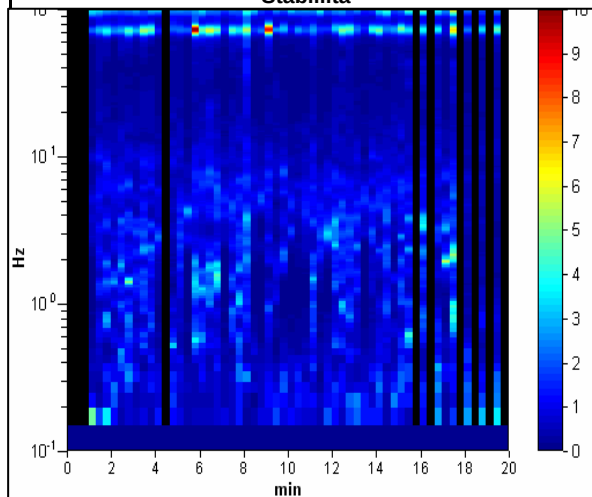
Rapporto spettrale



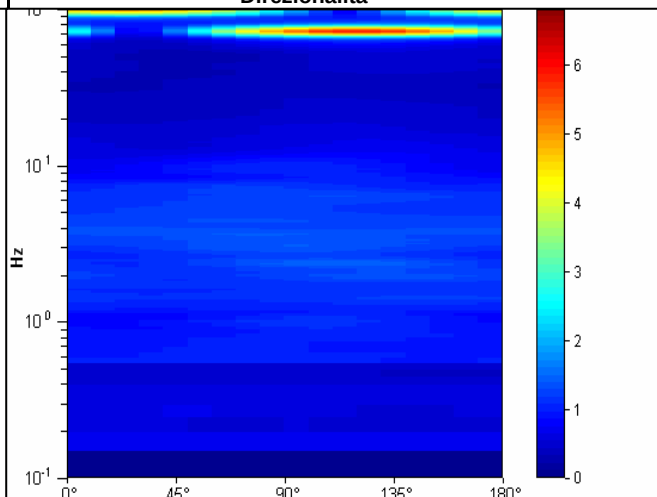
Ampiezza spettrale

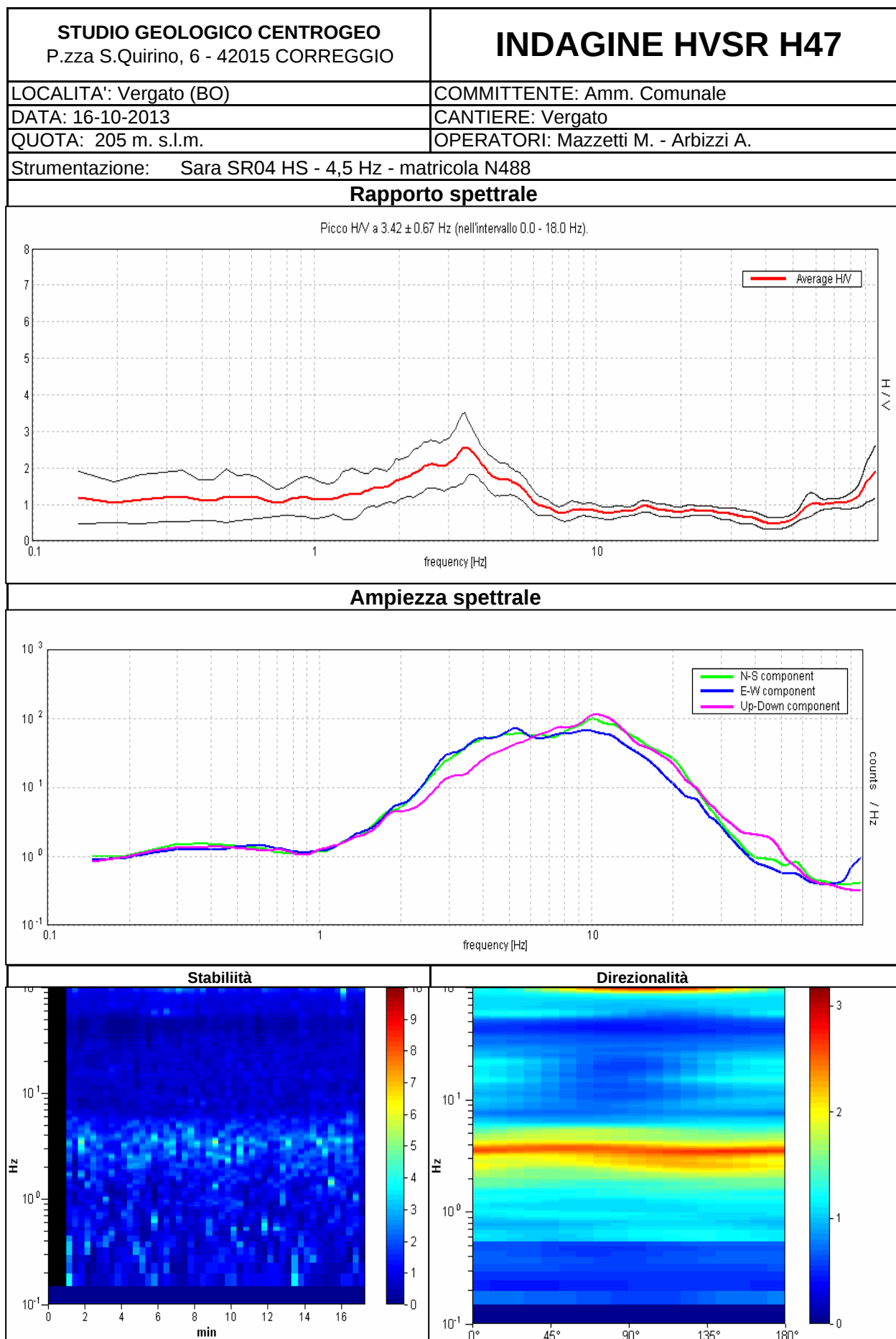


Stabilità



Direzionalità



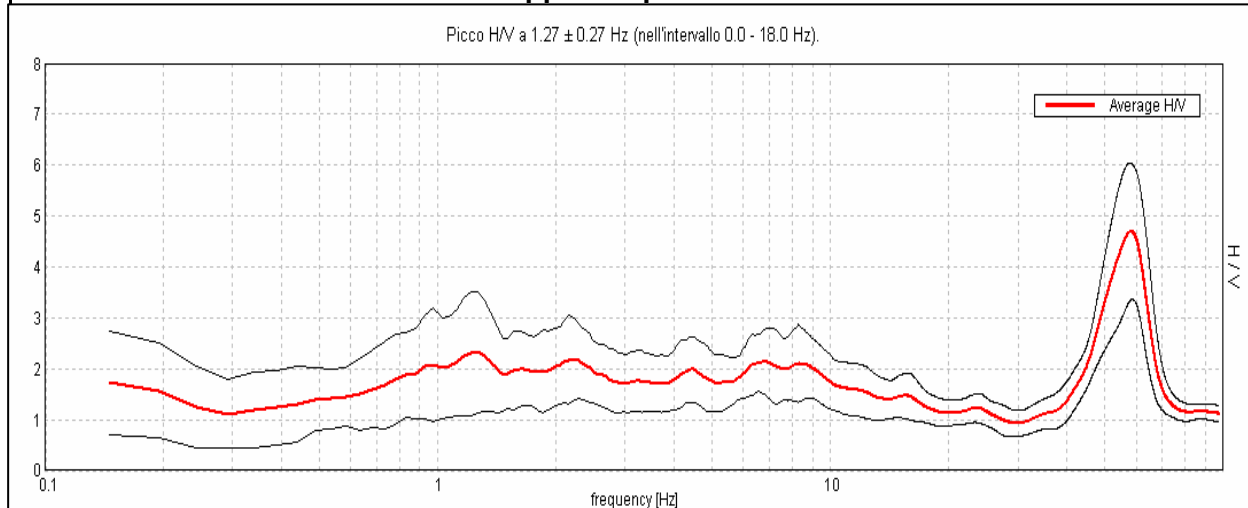


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H48
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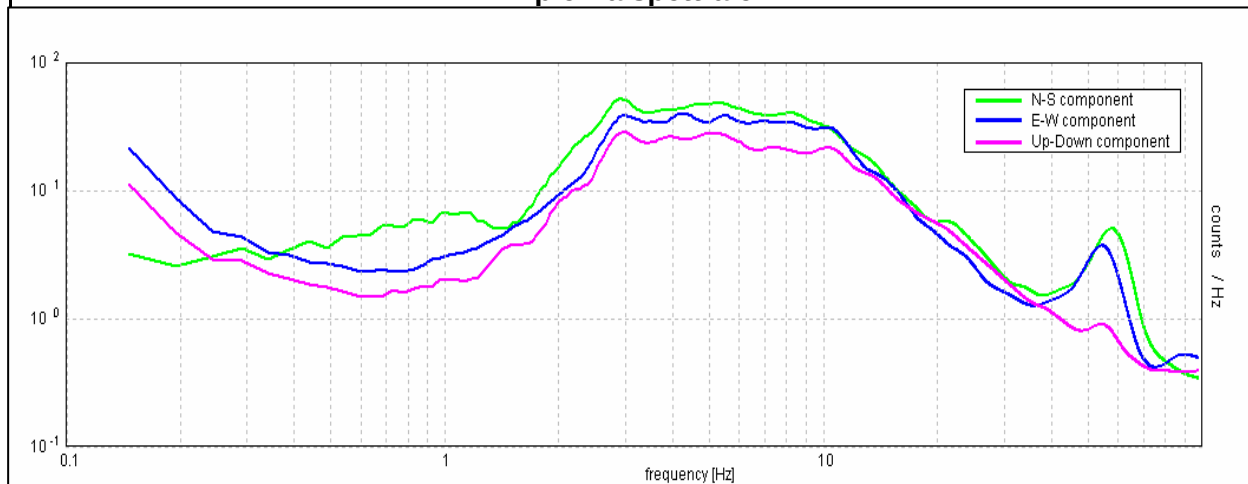
LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 245 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

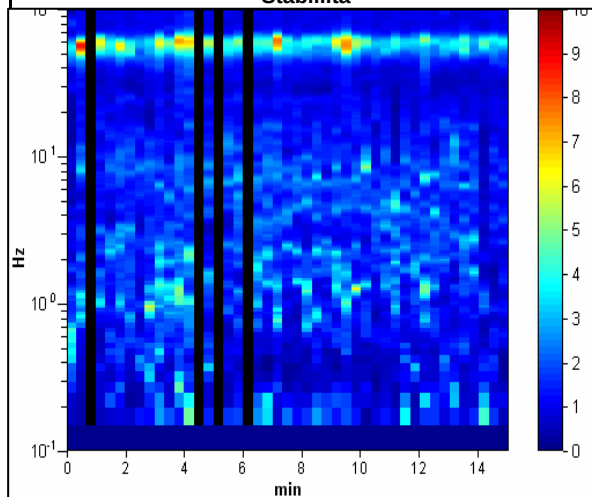
Rapporto spettrale



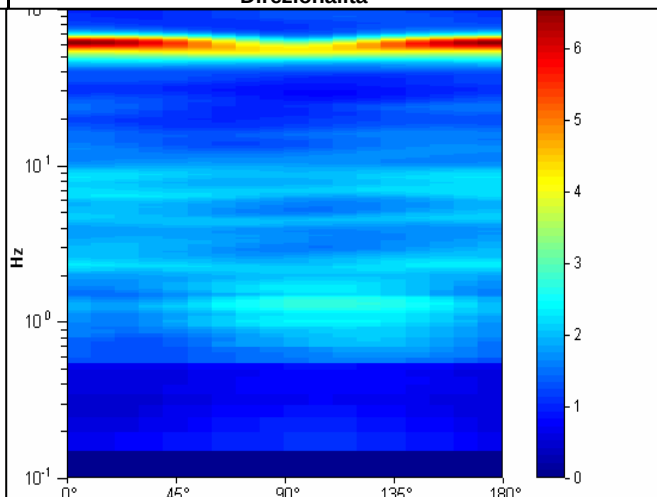
Ampiezza spettrale



Stabilità



Direzionalità



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

INDAGINE HVSR H49

LOCALITA': Vergato (BO)

COMMITTENTE: Amm. Comunale

DATA: 16-10-2013

CANTIERE: Vergato

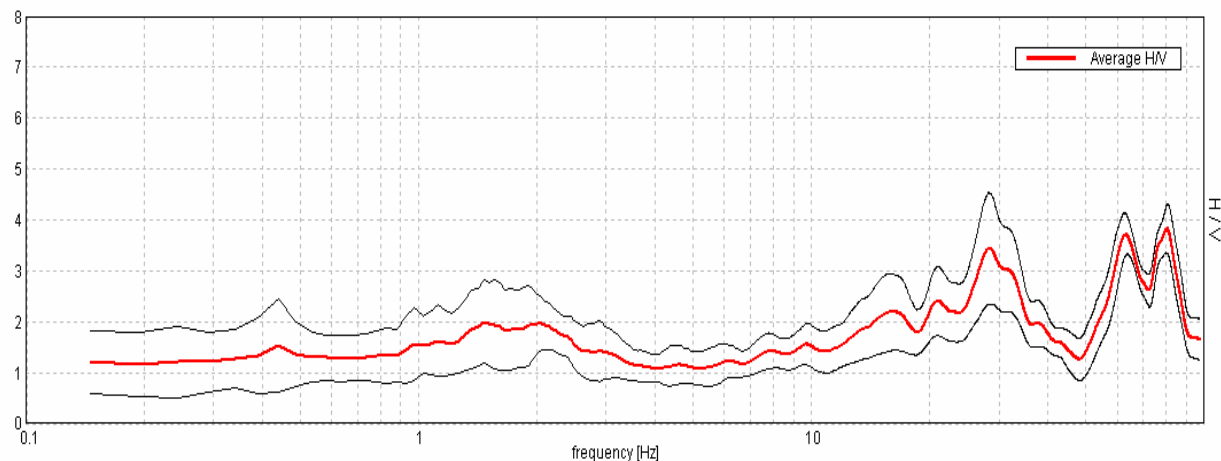
QUOTA: 240 m. s.l.m.

OPERATORI: Mazzetti M. - Arbizzi A.

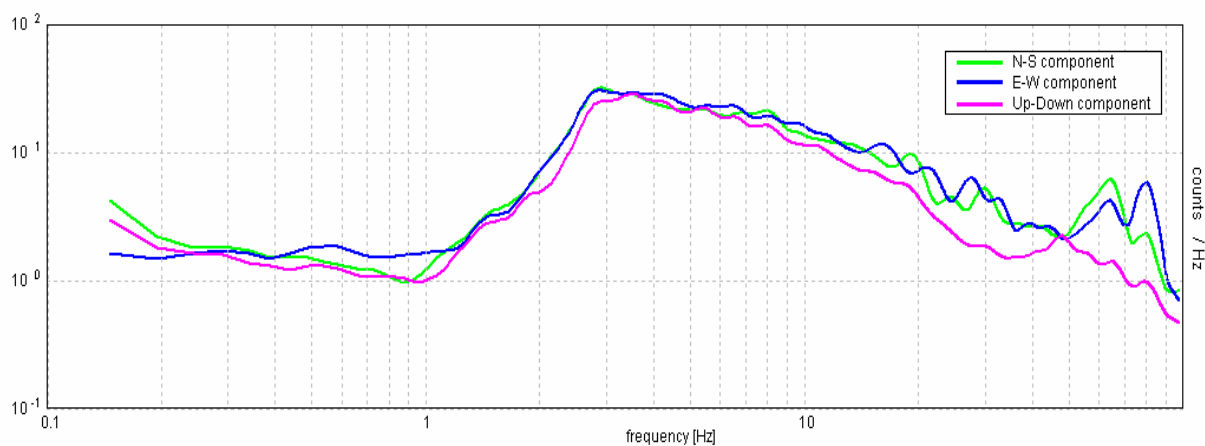
Strumentazione: Sara SR04 HS - 4,5 Hz - matricola N488

Rapporto spettrale

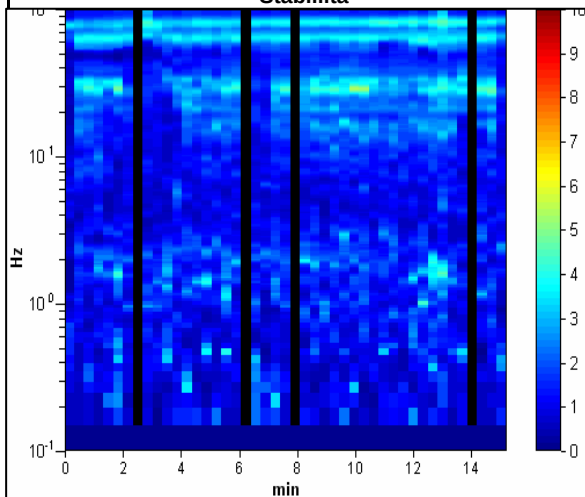
Picco HV a 15.82 ± 11.23 Hz (nell'intervallo 0.0 - 18.0 Hz).



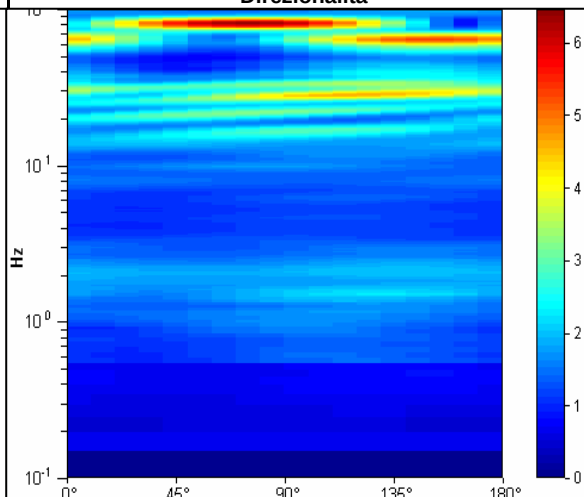
Ampiezza spettrale



Stabilità



Direzionalità

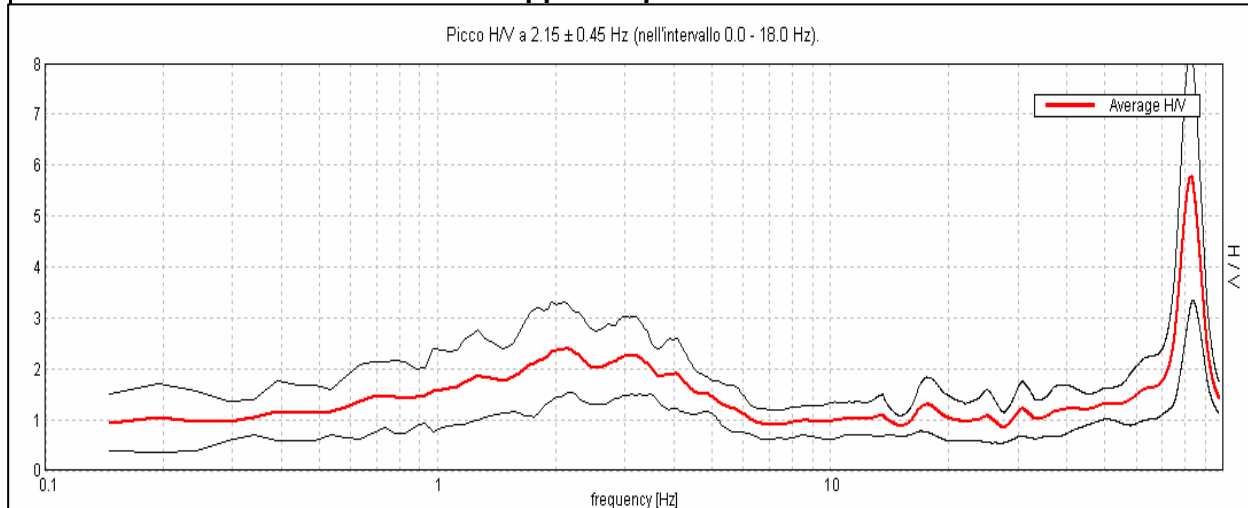


STUDIO GEOLOGICO CENTROGEO P.zza S.Quirino, 6 - 42015 CORREGGIO	INDAGINE HVSR H50
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LOCALITA': Vergato (BO)	COMMITTENTE: Amm. Comunale
DATA: 16-10-2013	CANTIERE: Vergato
QUOTA: 210 m. s.l.m.	OPERATORI: Mazzetti M. - Arbizzi A.

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

Rapporto spettrale



Ampiezza spettrale

