



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



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

MICROZONAZIONE SISMICA

Livello 3

Regione Emilia-Romagna

Comune di Finale Emilia



Relazione Illustrativa - Allegato 2

Rapporti di Prova

Regione	Soggetto realizzatore	Data
Emilia-Romagna	NEA S.r.l. 	01/07/2020

PROVA	ID_SPU	LAT. (WGS84)	LONG. (WGS84)	DATA	DURATA	f_0	A_0
FinE01	036012P521HVS539	4971816	212757	01/06/20	30 min	0.63	3.3
FinE02	036012P522HVS540	4971490	212300	01/06/20	30 min	0.63	2.7
FinE03	036012P522HVS541	4971282	211930	01/06/20	30 min	0.69	2.6
FinE04	036012P522HVS542	4971047	208009	01/06/20	30 min	0.81	2.7
FinE05	036012P522HVS543	4970456	207587	01/06/20	30 min	0.78	2.6
FinE06	036012P522HVS544	4696918	207243	01/06/20	30 min	0.81	2.6
FinE07	036012P522HVS545	4971677	208025	03/06/20	30 min	0.81	2.2
FinE08	036012P522HVS546	4971744	206916	03/06/20	30 min	0.56	2.7
FinE09	036012P522HVS547	4971438	206450	03/06/20	30 min	0.63	2.6
FinE10	036012P522HVS548	4971065	205778	03/06/20	30 min	0.59	2.5
FinE11	036012P522HVS549	4971120	205932	05/06/20	30 min	0.69	2.2
FinE12	036012P522HVS550	4970840	206538	05/06/20	30 min	0.63	2.1
FinE13	036012P522HVS551	4970733	206976	05/06/20	30 min	0.78	2.2
FinE14	036012P522HVS552	4973783	200245	20/06/20	30 min	0.75	2.7
FinE15	036012P522HVS553	4971207	203692	21/06/20	30 min	0.69	1.8
FinE16	036012P522HVS554	4970190	202687	21/06/20	30 min	0.5	1.4
FinE17	036012P522HVS555	4969303	202490	21/06/20	30 min	0.56	3.1
FinE18	036012P522HVS556	4972032	202910	21/06/20	30 min	0.78	2.4
FinE19	036012P522HVS557	4972942	203258	21/06/20	30 min	1.10	3.2
FinE20	036012P522HVS558	4974138	202657	21/06/20	30 min	0.75	2.9
FinE21	036012P522HVS559	4972435	199809	23/06/20	30 min	0.63	2.4
FinE22	036012P522HVS560	4973570	200910	15/07/20	30 min	0.72	2.5
FinE23	036012P522HVS561	4973159	200386	15/07/20	30 min	0.63	2.5
FinE24	036012P522HVS562	4972744	199781	15/07/20	30 min	0.81	2.1
FinE25	036012P522HVS563	4972935	201217	15/07/20	30 min	0.63	2.6

Principali dati associati alle 25 misure di microtremore a stazione singola HVSR di nuova esecuzione. f_0 = frequenza naturale; A_0 = ampiezza del picco di f_0 .

FINALEMILIA, FINE01

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 01/06/20 12:09:51 End recording: 01/06/20 12:39:51

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

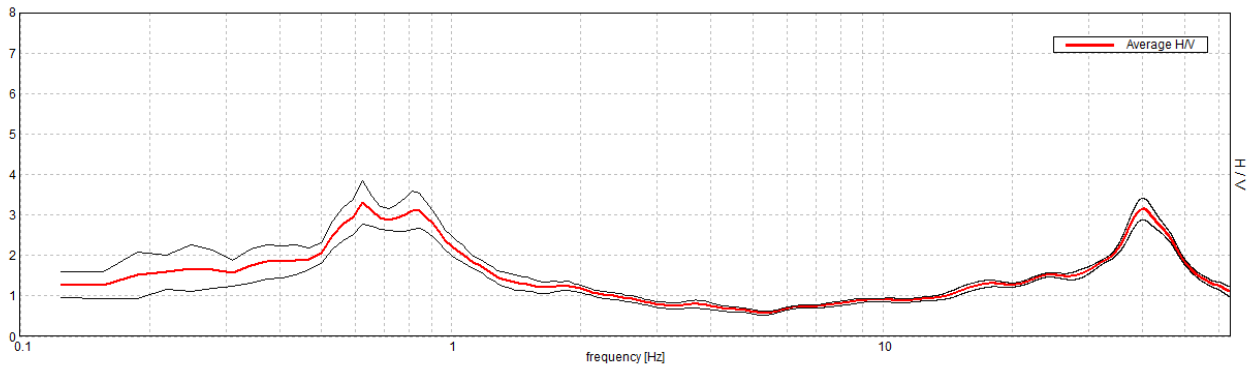
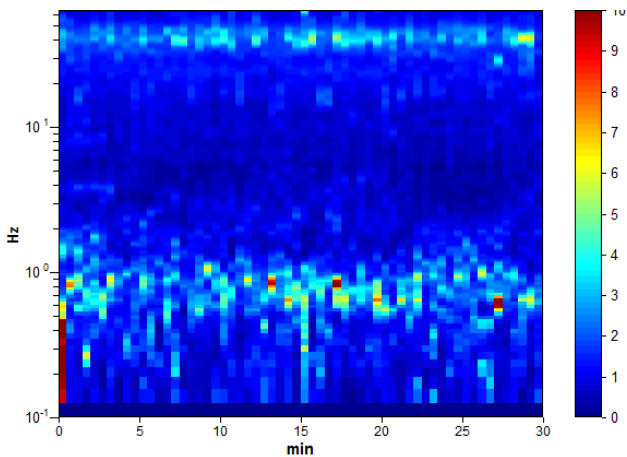
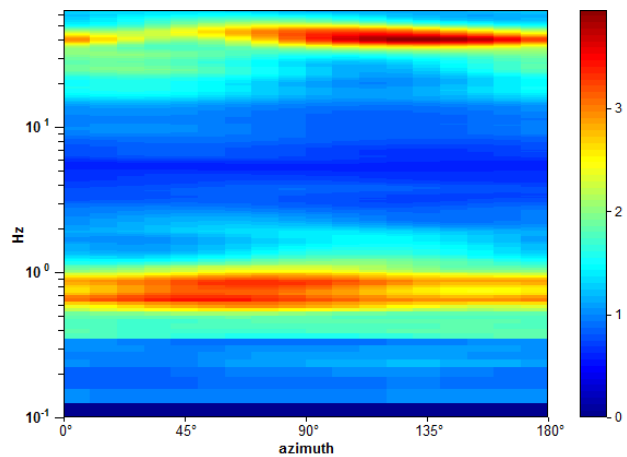
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

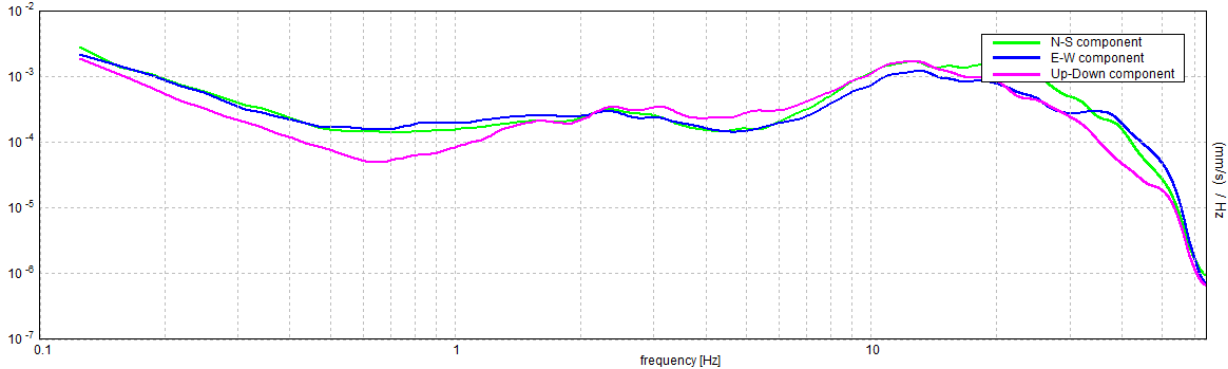
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.18 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.18 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.313 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.219 Hz	OK	
$A_0 > 2$	$3.31 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.29169 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.18231 < 0.09375$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.5286 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE02

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 01/06/20 12:50:27 End recording: 01/06/20 13:20:27

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

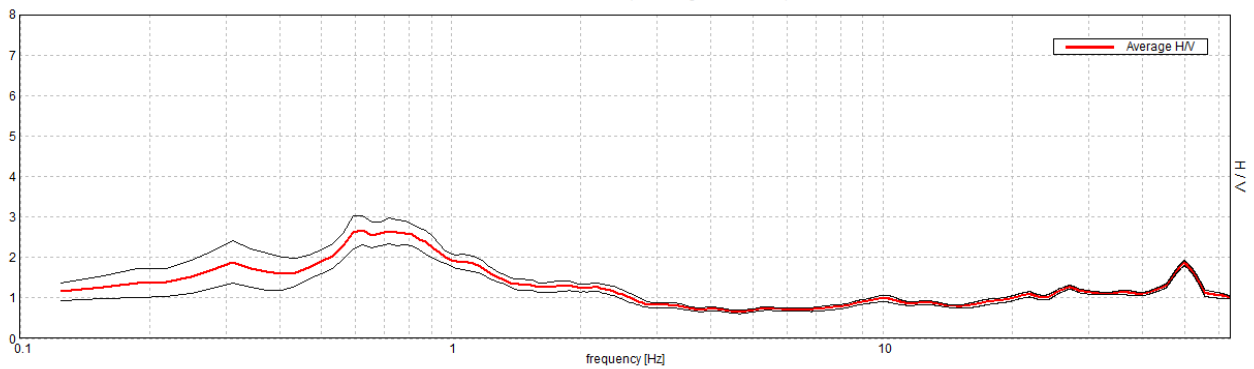
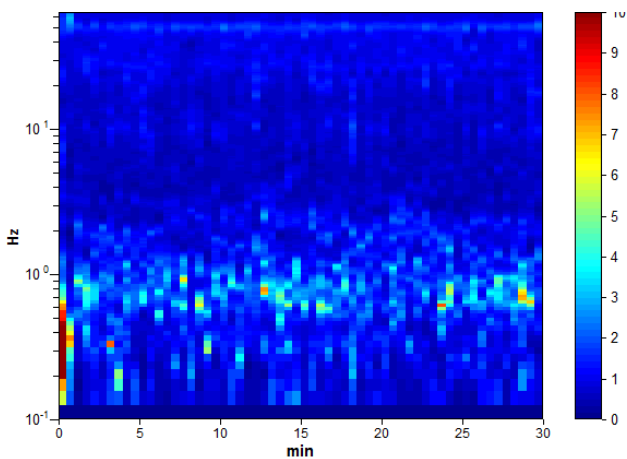
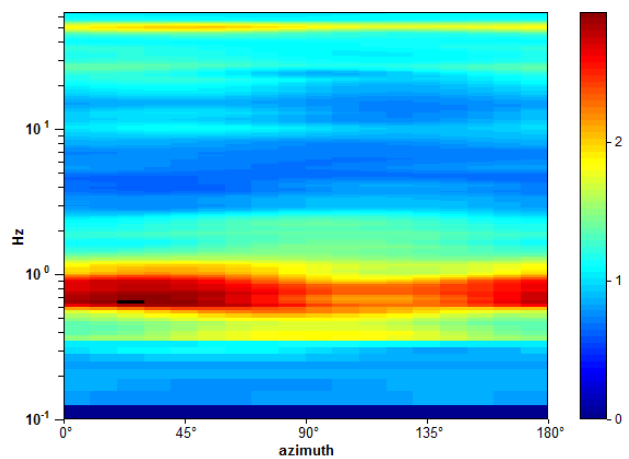
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

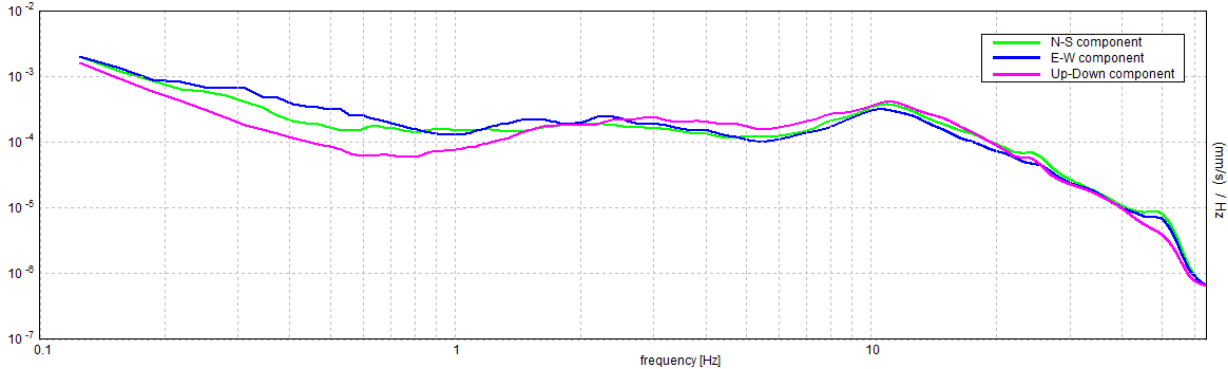
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.11 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.11 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.156 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.469 Hz	OK	
$A_0 > 2$	$2.67 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.17308 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.10818 < 0.09375$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.358 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE03

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 01/06/20 13:28:35 End recording: 01/06/20 13:58:35

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

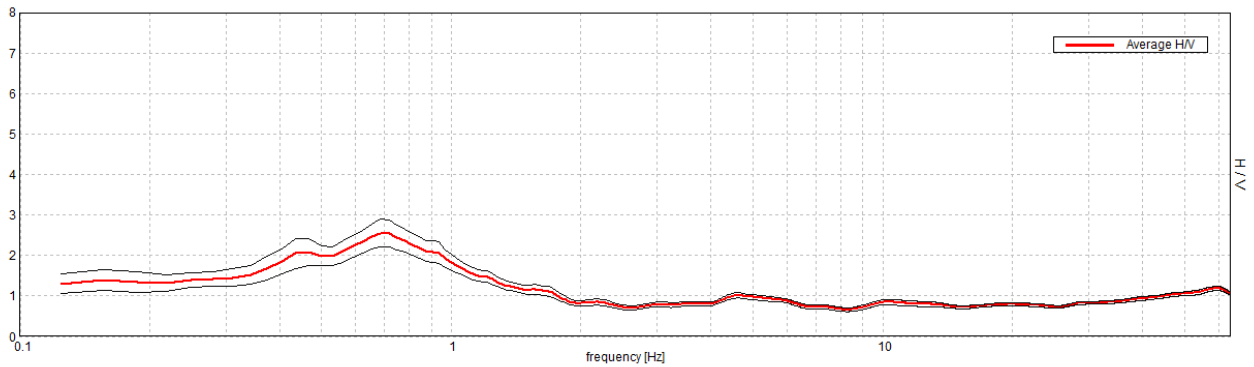
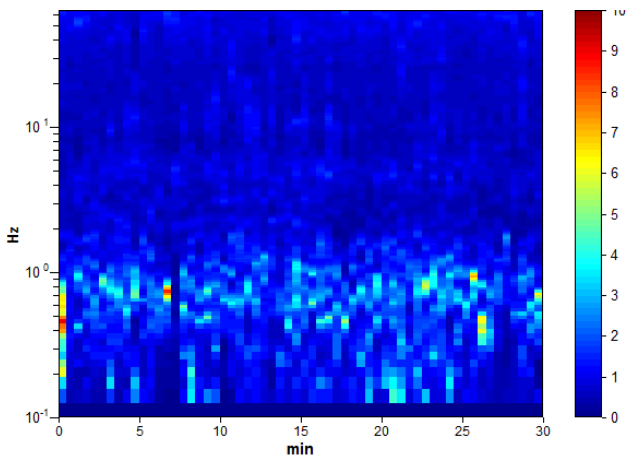
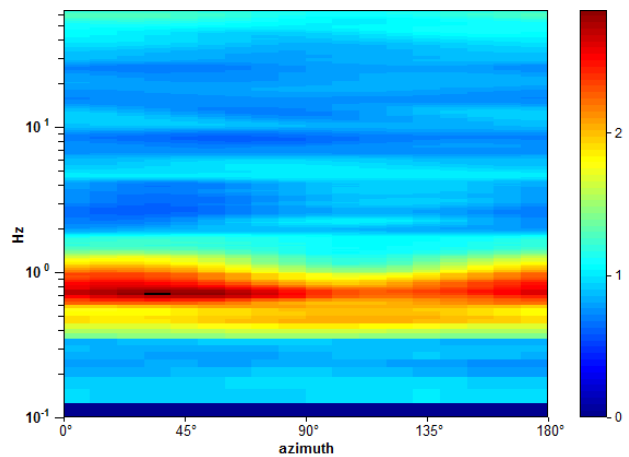
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

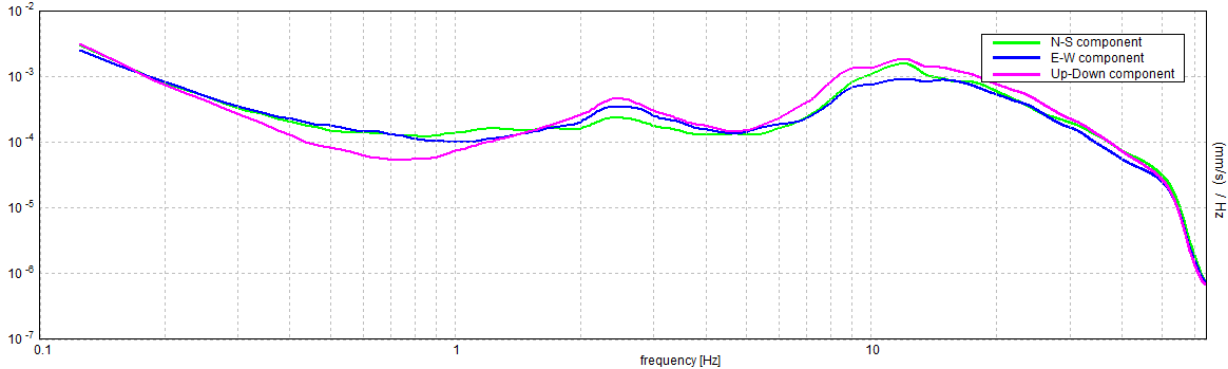
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.69 ± 0.04 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.69 ± 0.04 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.69 > 0.33$	OK	
$n_c(f_0) > 200$	$1237.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 34 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.344 Hz	OK	
$A_0 > 2$	$2.56 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.06535 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.04492 < 0.10313$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.3351 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE04

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 01/06/20 14:10:52 End recording: 01/06/20 14:40:52

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

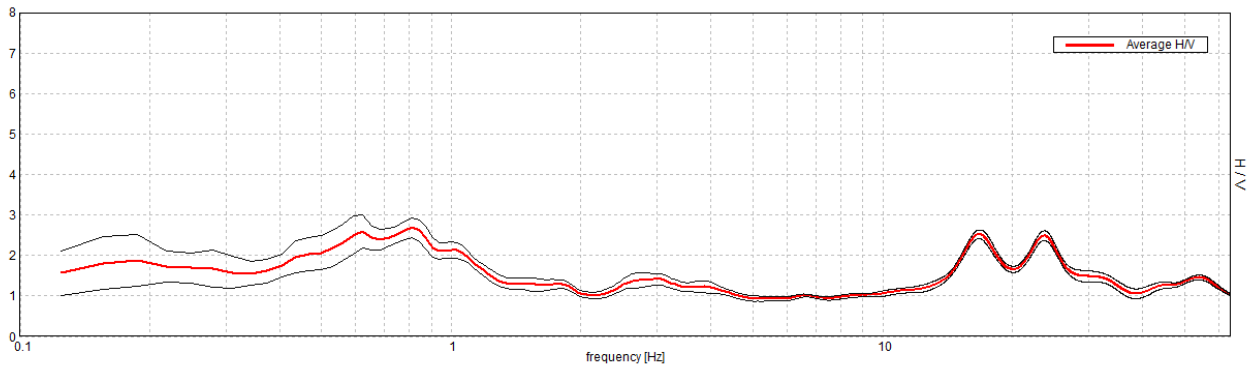
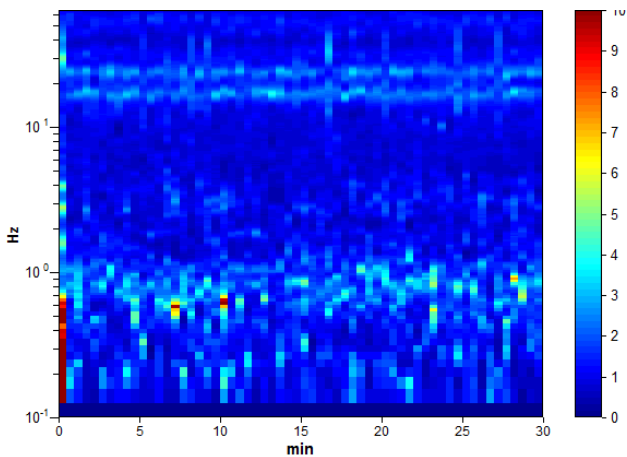
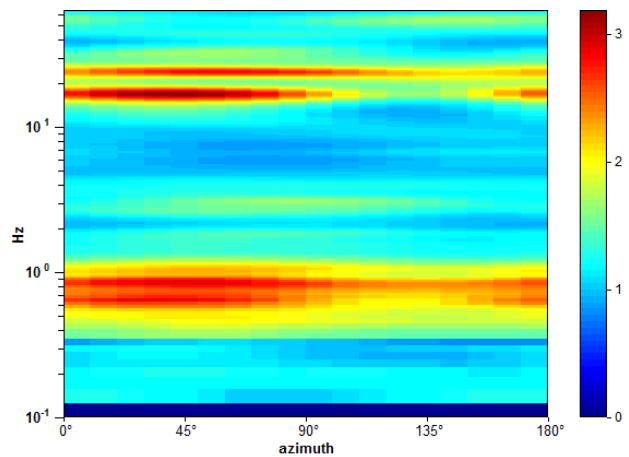
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

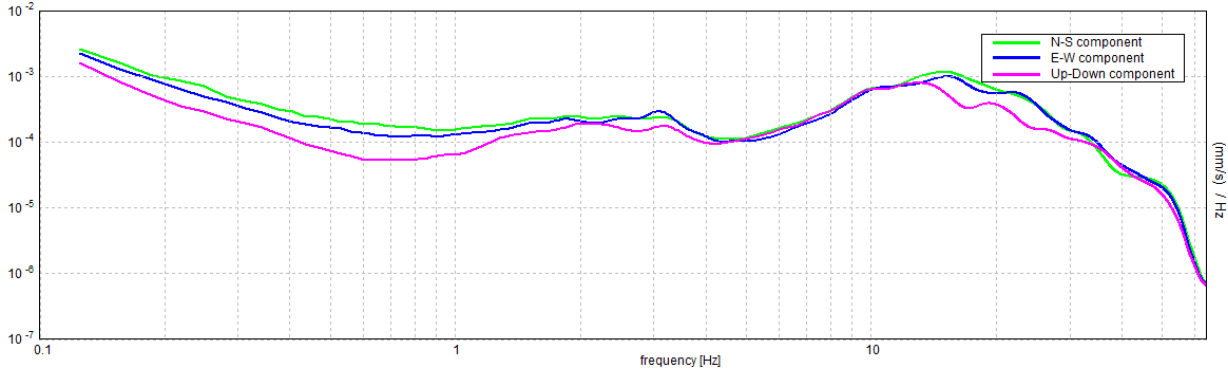
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.81 ± 0.18 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.81 ± 0.18 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.81 > 0.33$	OK	
$n_c(f_0) > 200$	$1462.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 40 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.344 Hz	OK	
$A_0 > 2$	$2.69 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.22443 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.18235 < 0.12188$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.238 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE05

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 01/06/20 14:47:09 End recording: 01/06/20 15:17:09

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

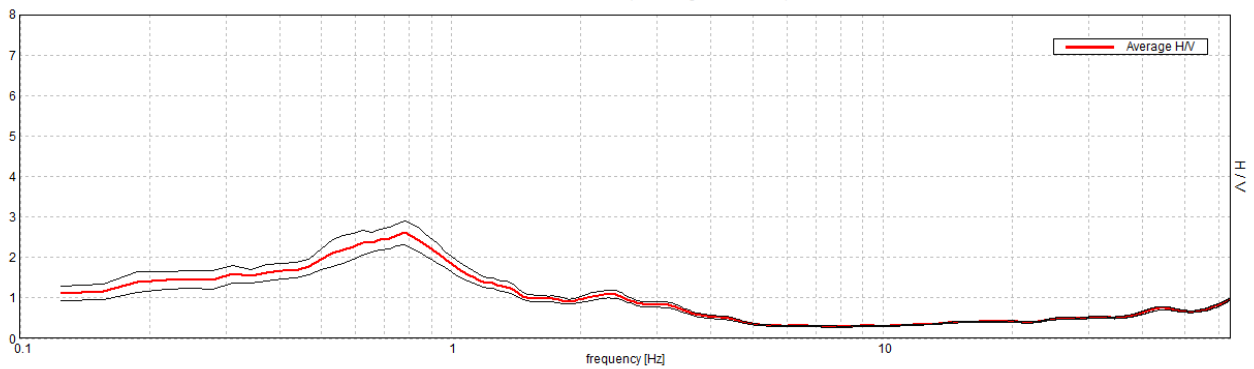
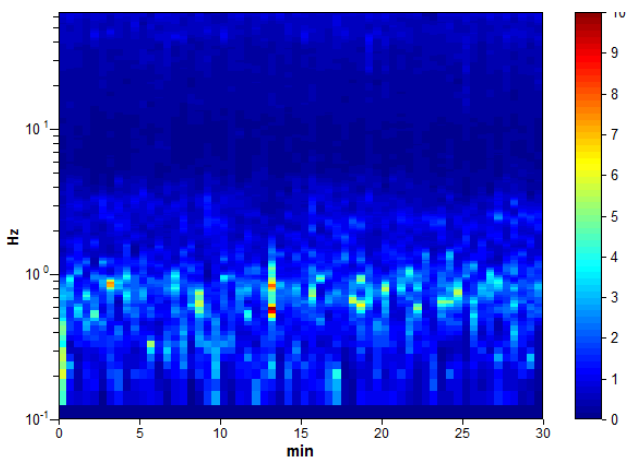
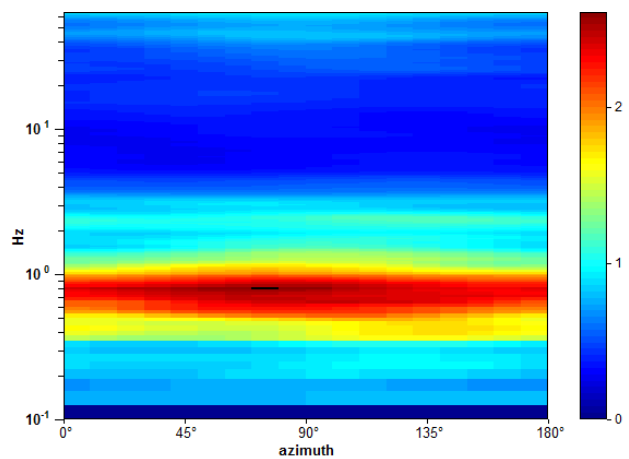
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

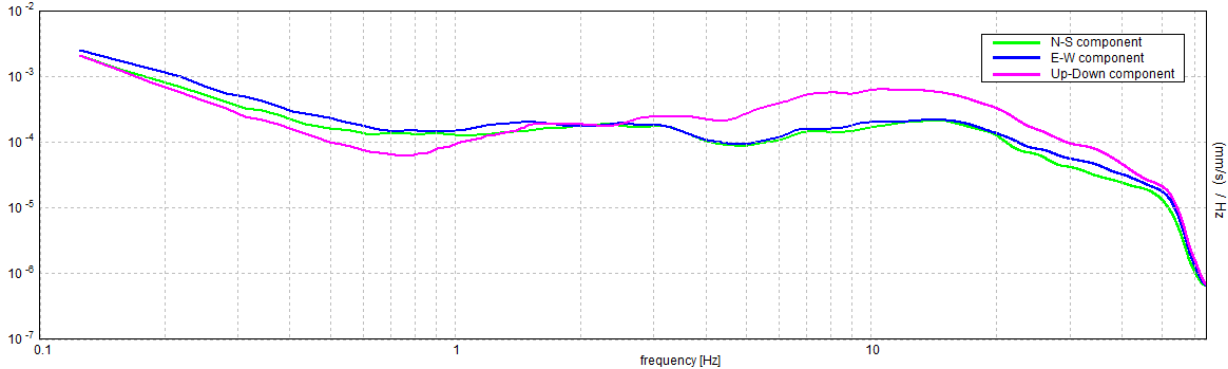
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.78 ± 0.05 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.78 ± 0.05 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.78 > 0.33$	OK	
$n_c(f_0) > 200$	$1406.3 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 38 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.313 Hz	OK	
$A_0 > 2$	$2.61 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.06812 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.05322 < 0.11719$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2977 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

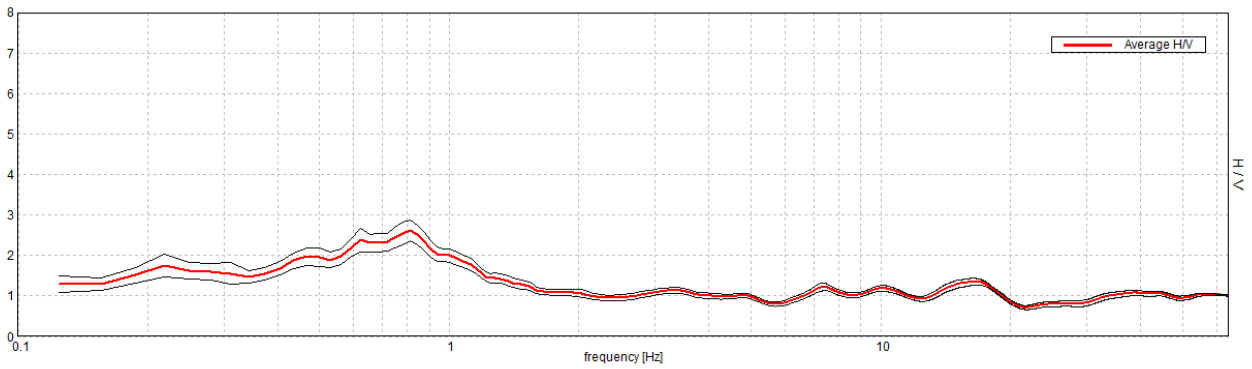
FINALEMILIA, FINE06

Instrument: TZ3-ex04/01-13
Data format: 16 byte
Full scale [mV]: 51
Start recording: 01/06/20 15:27:41 End recording: 01/06/20 15:57:41
Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
GPS data not available

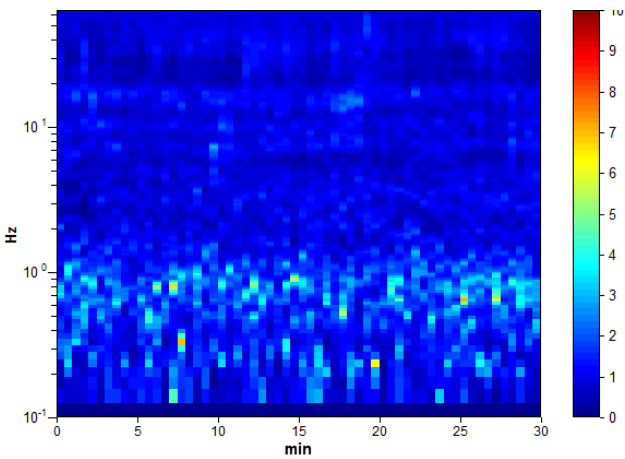
Trace length: 0h30'00". Analysis performed on the entire trace.
Sampling rate: 128 Hz
Window size: 30 s
Smoothing type: Triangular window
Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIO

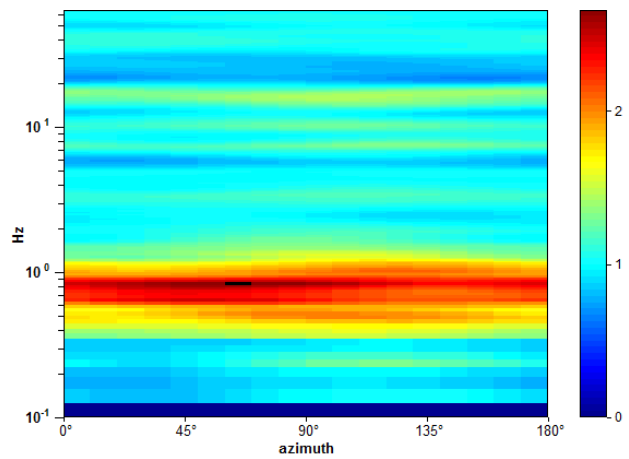
Max. H/V at 0.81 ± 0.06 Hz. (In the range 0.5 - 10.0 Hz).



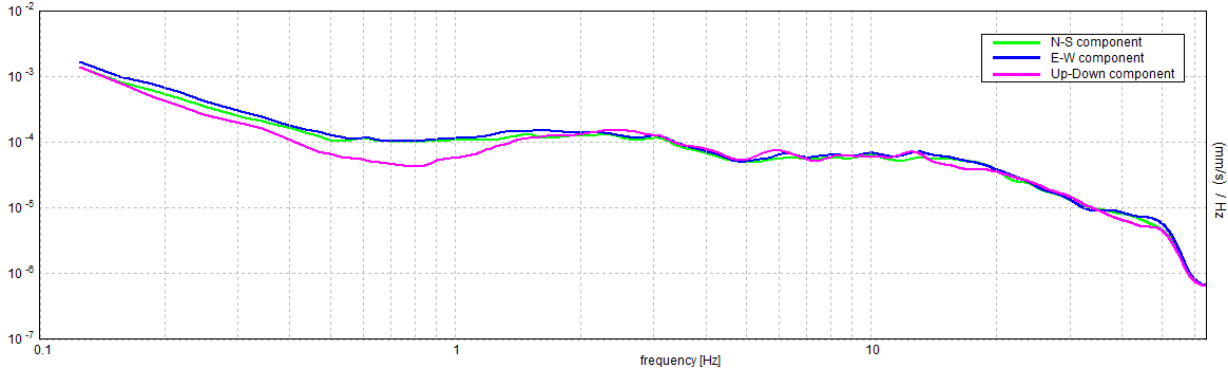
H/V TIME HISTORY



DIRECTIONAL H/V



SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.81 ± 0.06 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.81 > 0.33$	OK	
$n_c(f_0) > 200$	$1462.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 40 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.438 Hz	OK	
$A_0 > 2$	$2.61 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.0753 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.06118 < 0.12188$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2607 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE07

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 03/06/20 09:46:18 End recording: 03/06/20 10:16:18

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

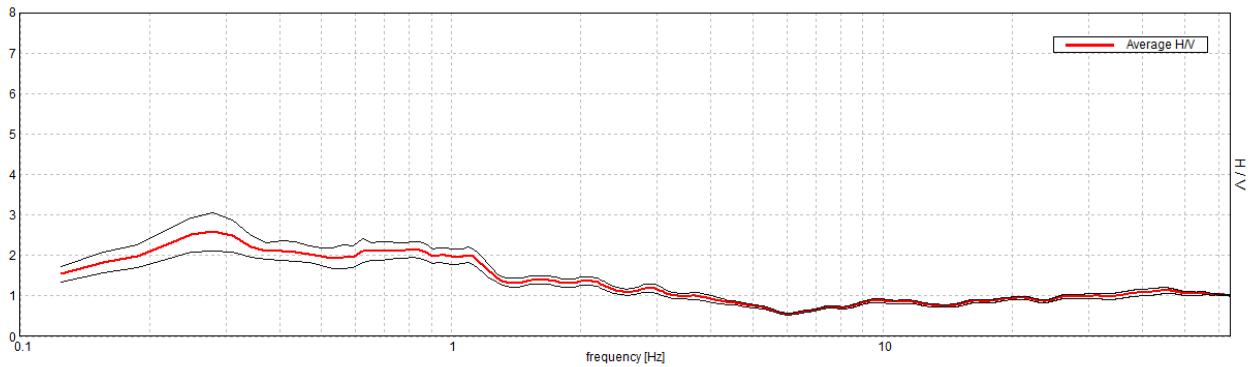
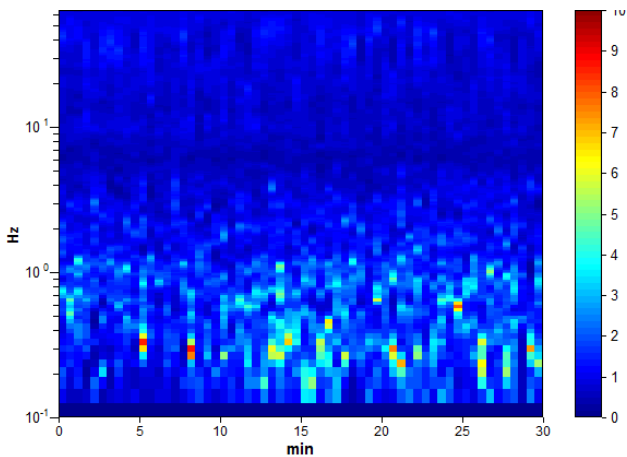
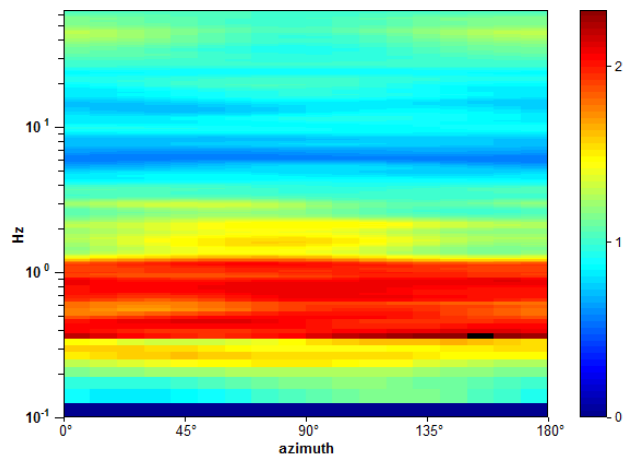
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

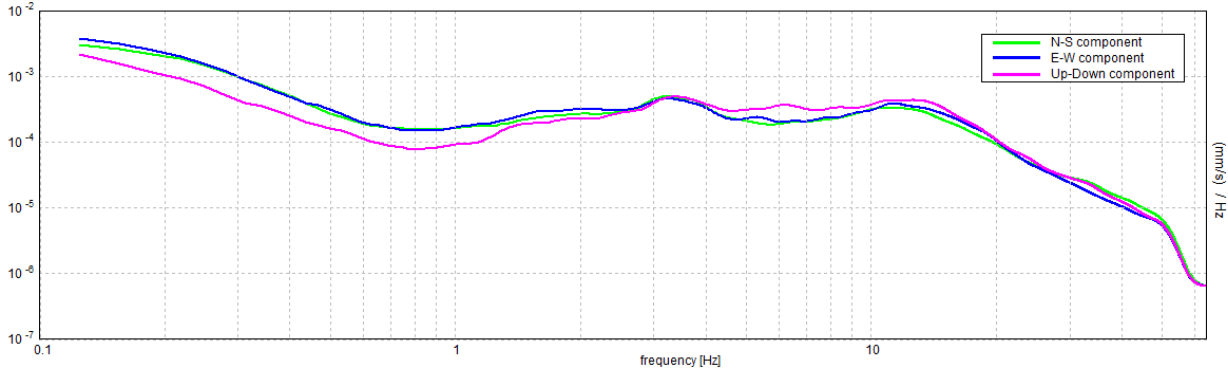
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.81 ± 0.17 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.81 ± 0.17 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.81 > 0.33$	OK	
$n_c(f_0) > 200$	$1462.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 40 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	3.156 Hz	OK	
$A_0 > 2$	$2.15 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.20449 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.16615 < 0.12188$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.1935 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE08

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 03/06/20 10:27:48 End recording: 03/06/20 10:57:48

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

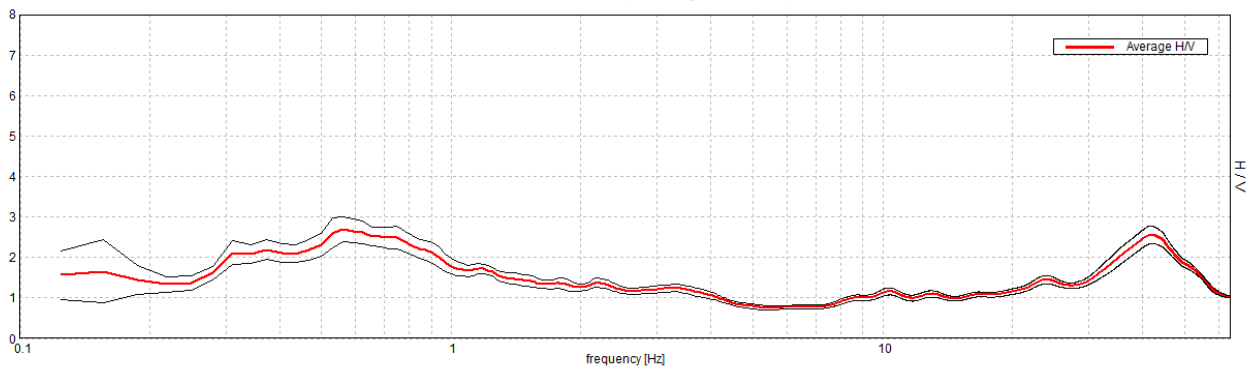
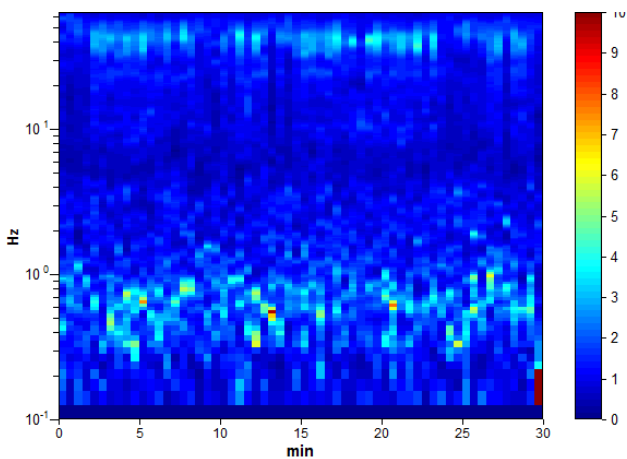
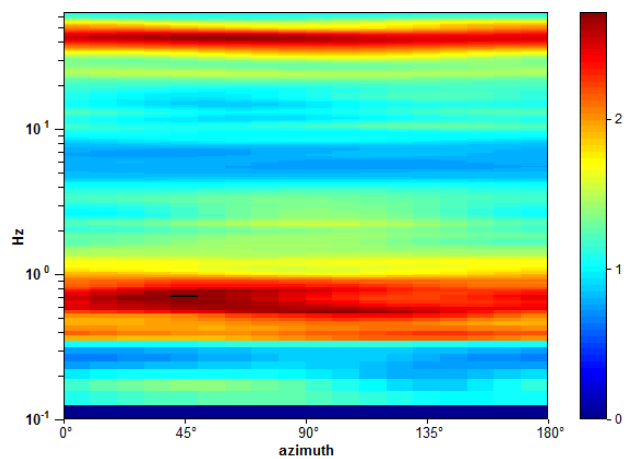
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

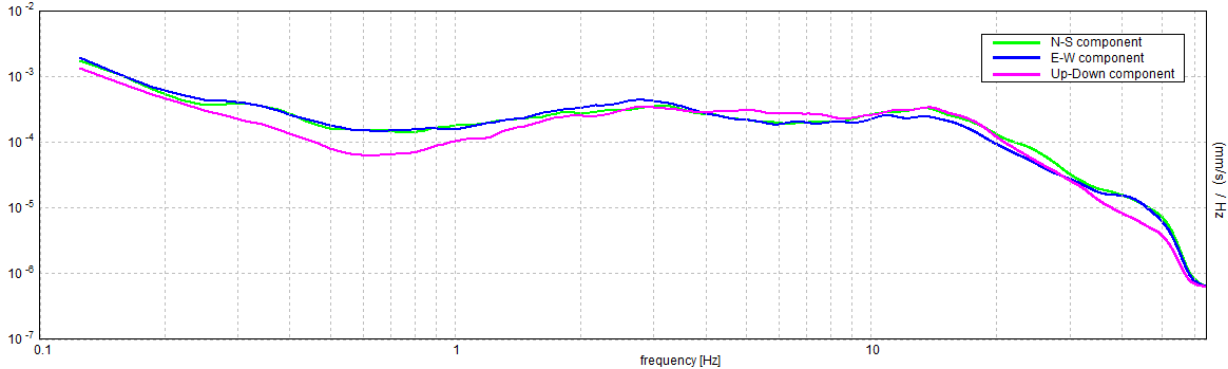
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.56 ± 0.14 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.56 ± 0.14 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.56 > 0.33$	OK	
$n_c(f_0) > 200$	$1012.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 28 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.219 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.625 Hz	OK	
$A_0 > 2$	$2.69 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.24721 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.13905 < 0.08438$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.3056 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE09

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 03/06/20 11:06:45 End recording: 03/06/20 11:36:45

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

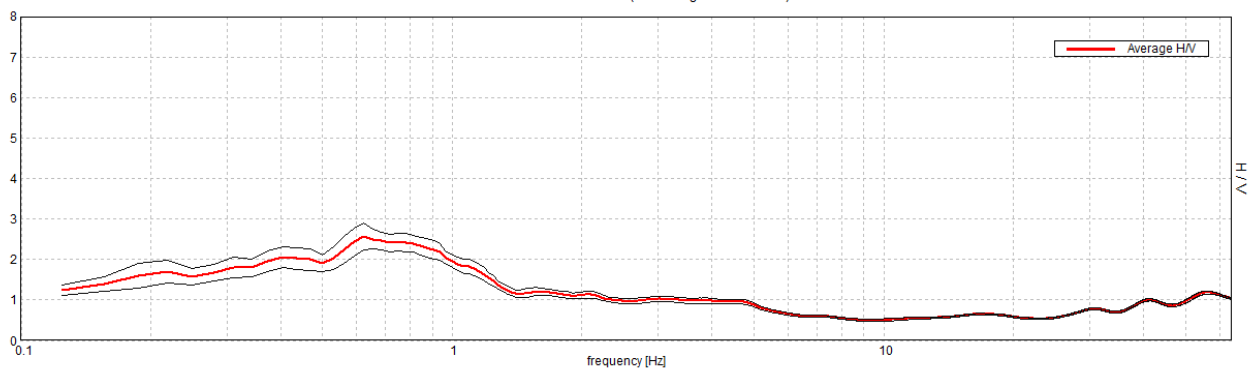
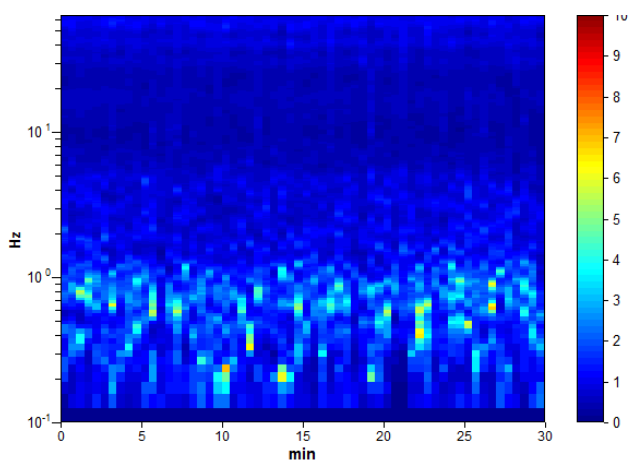
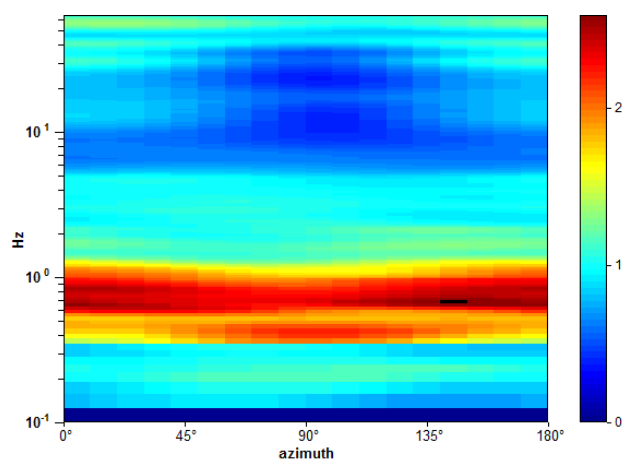
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

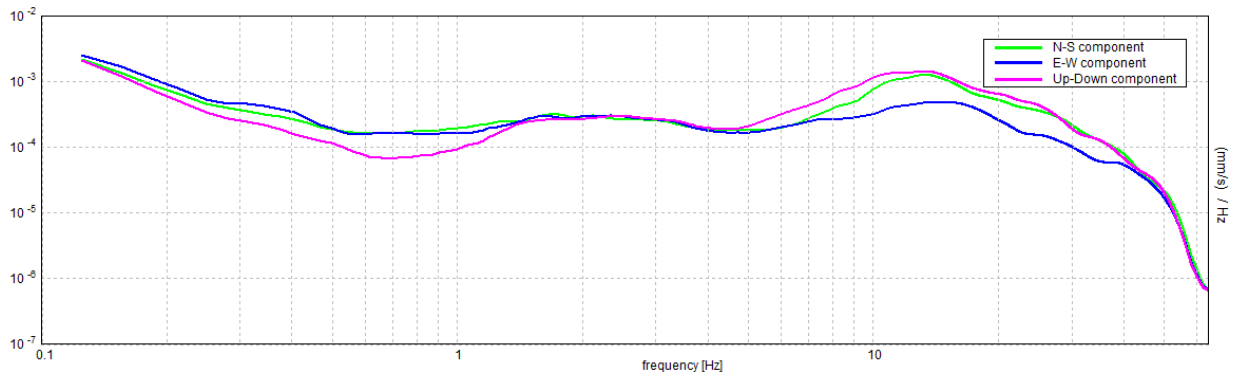
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.08 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.08 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.344 Hz	OK	
$A_0 > 2$	$2.57 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.13447 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.08405 < 0.09375$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.3322 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE10

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 03/06/20 15:55:31 End recording: 03/06/20 16:25:31

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

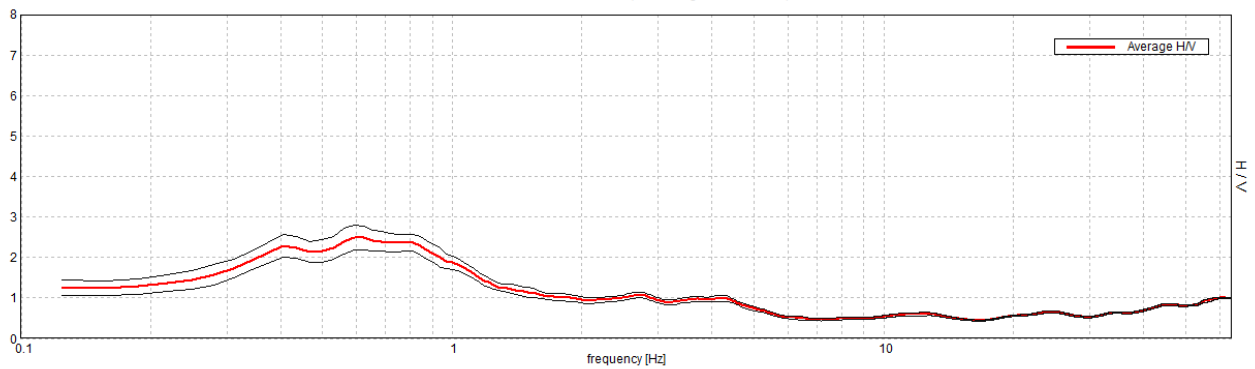
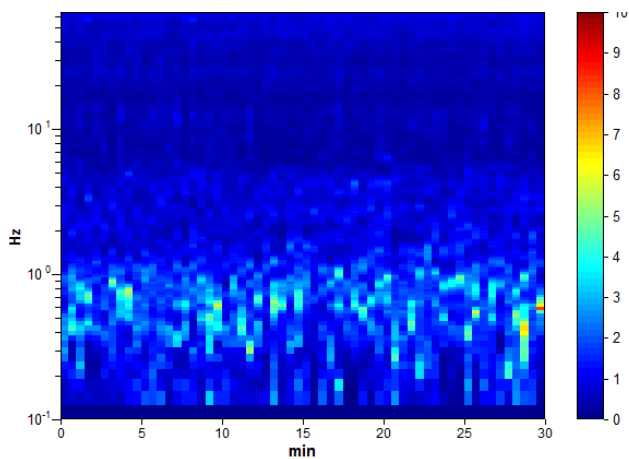
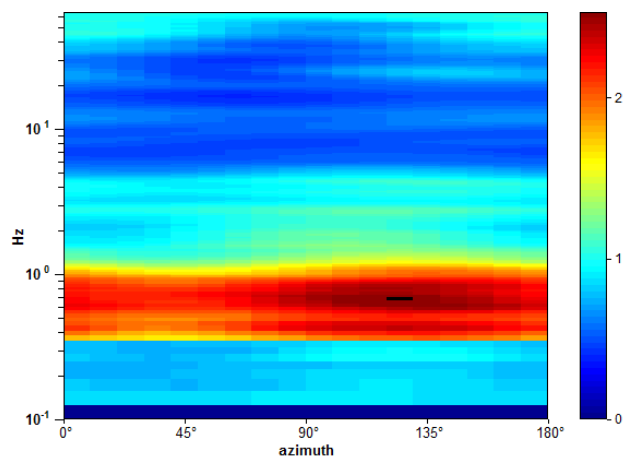
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

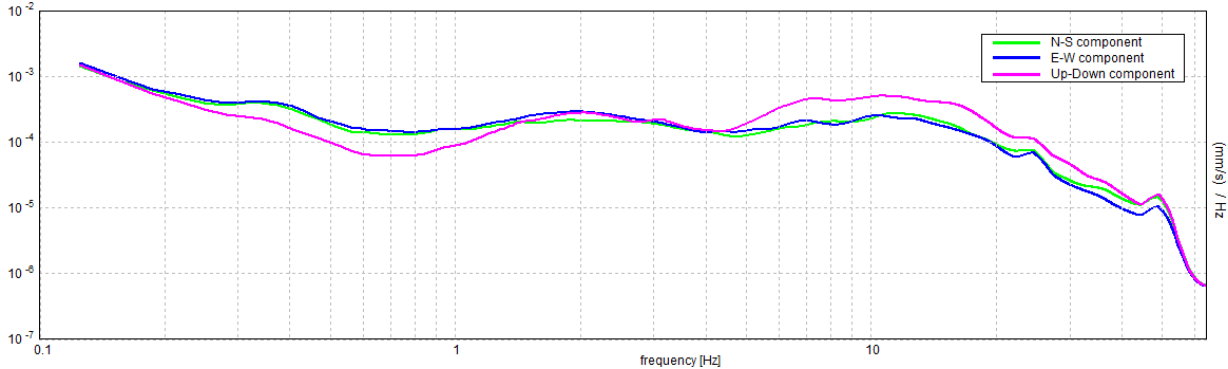
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.59 ± 0.09 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.59 ± 0.09 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.59 > 0.33$	OK	
$n_c(f_0) > 200$	$1068.8 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 30 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.156 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.344 Hz	OK	
$A_0 > 2$	$2.50 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.14948 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.08876 < 0.08906$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.3075 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

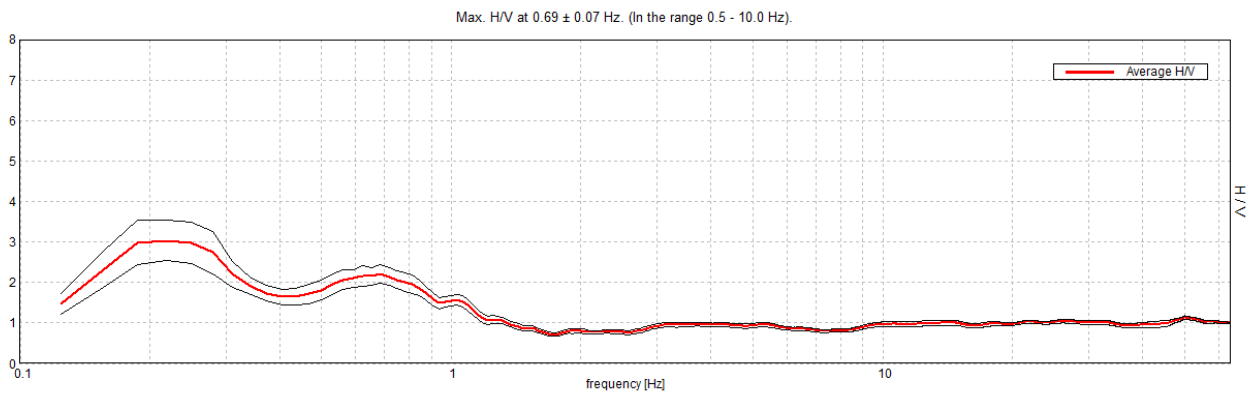
Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE11

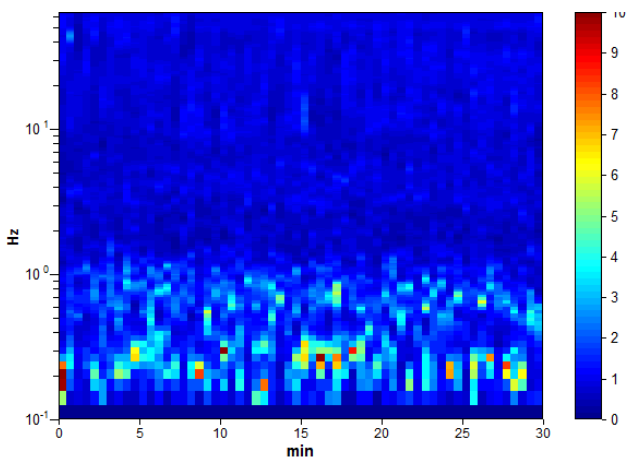
Instrument: TZ3-ex04/01-13
Data format: 16 byte
Full scale [mV]: 51
Start recording: 05/06/20 18:24:18 End recording: 05/06/20 18:54:18
Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
GPS data not available

Trace length: 0h30'00". Analysis performed on the entire trace.
Sampling rate: 128 Hz
Window size: 30 s
Smoothing type: Triangular window
Smoothing: 10%

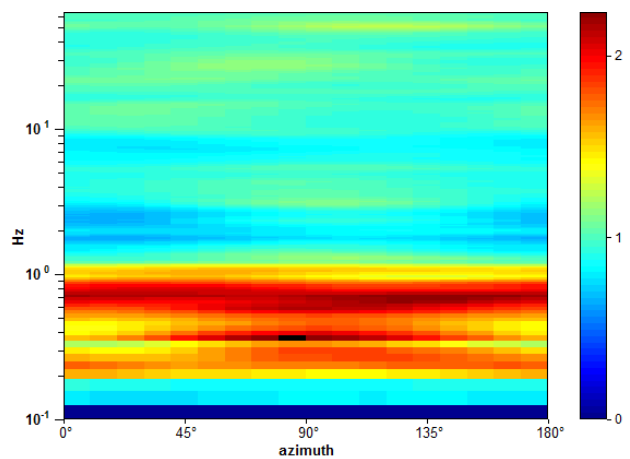
HORIZONTAL TO VERTICAL SPECTRAL RATIO



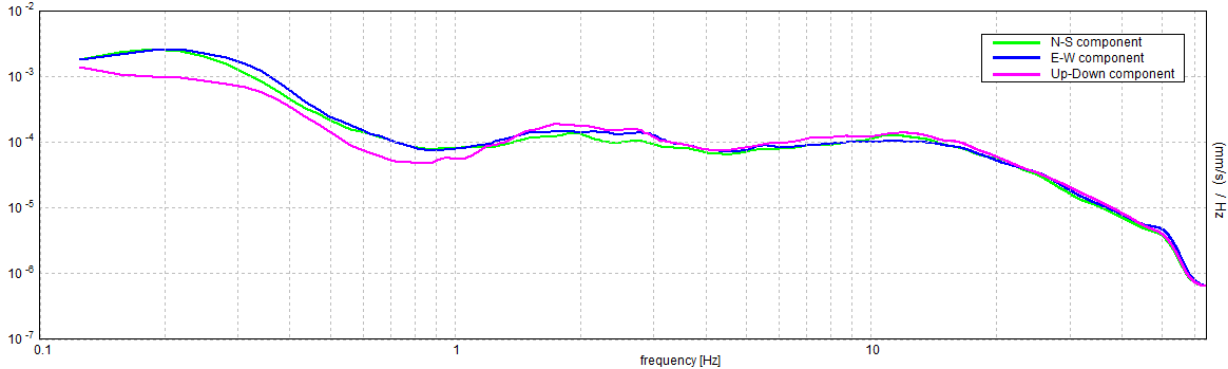
H/V TIME HISTORY



DIRECTIONAL H/V



SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.69 ± 0.07 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.69 > 0.33$	OK	
$n_c(f_0) > 200$	$1237.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 34 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.188 Hz	OK	
$A_0 > 2$	$2.22 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.09993 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.0687 < 0.10313$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2345 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE12

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 05/06/20 19:01:37 End recording: 05/06/20 19:31:37

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

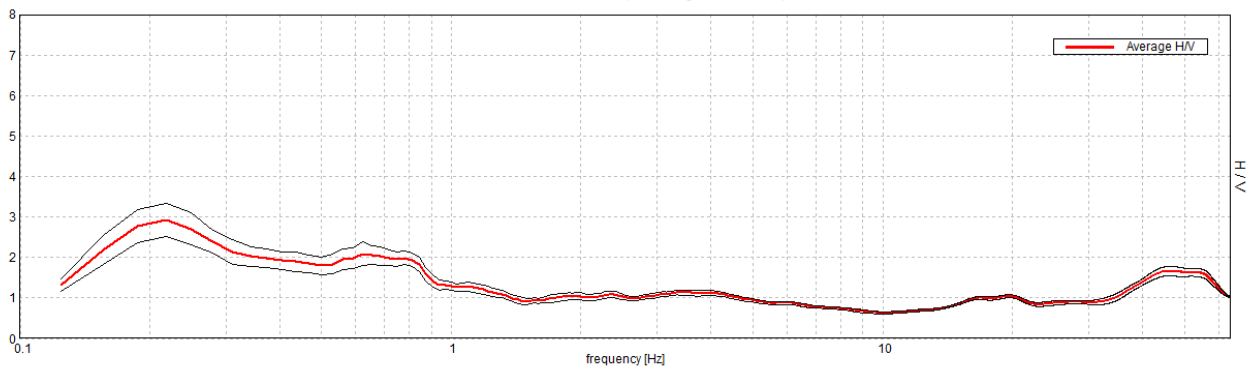
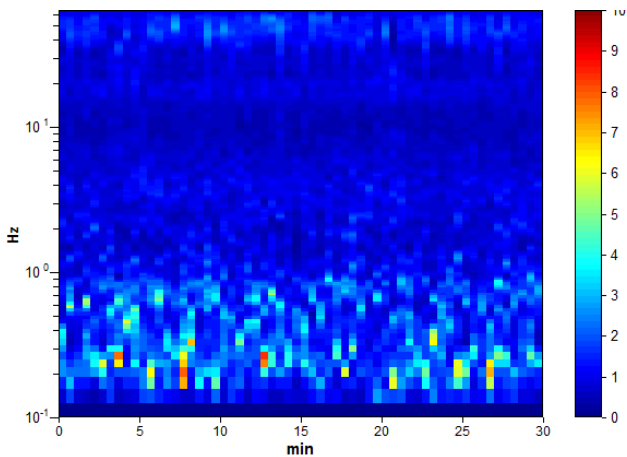
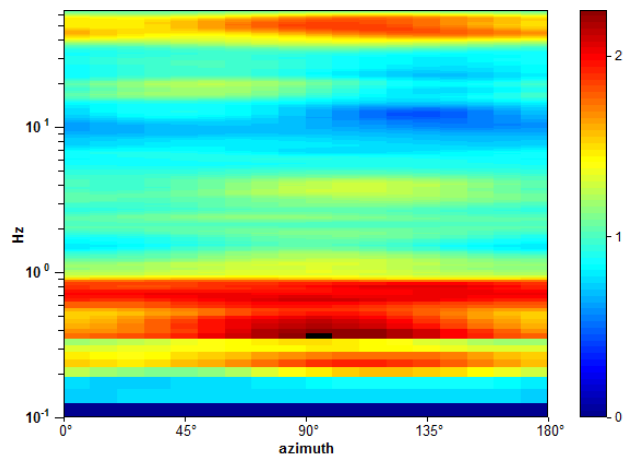
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

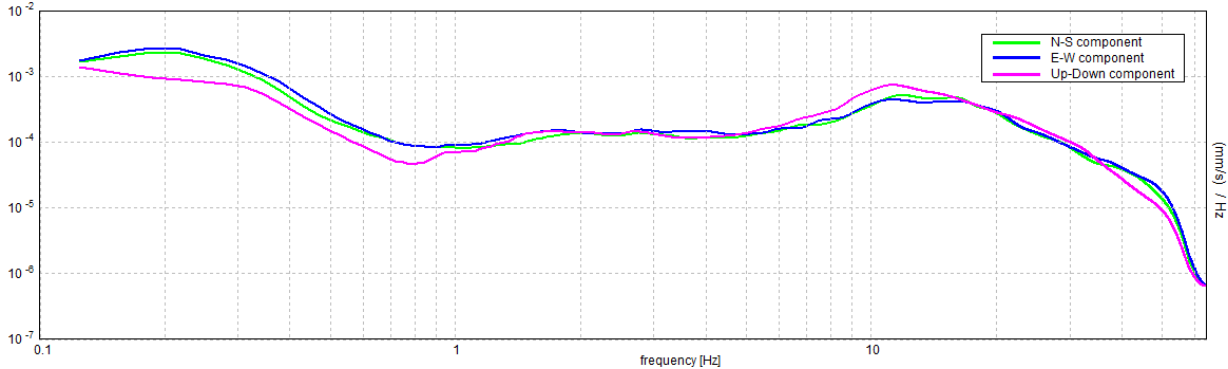
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.2 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.2 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.375 Hz	OK	
$A_0 > 2$	$2.09 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.32685 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.20428 < 0.09375$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.2887 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE13

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 05/06/20 19:37:44 End recording: 05/06/20 20:07:44

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

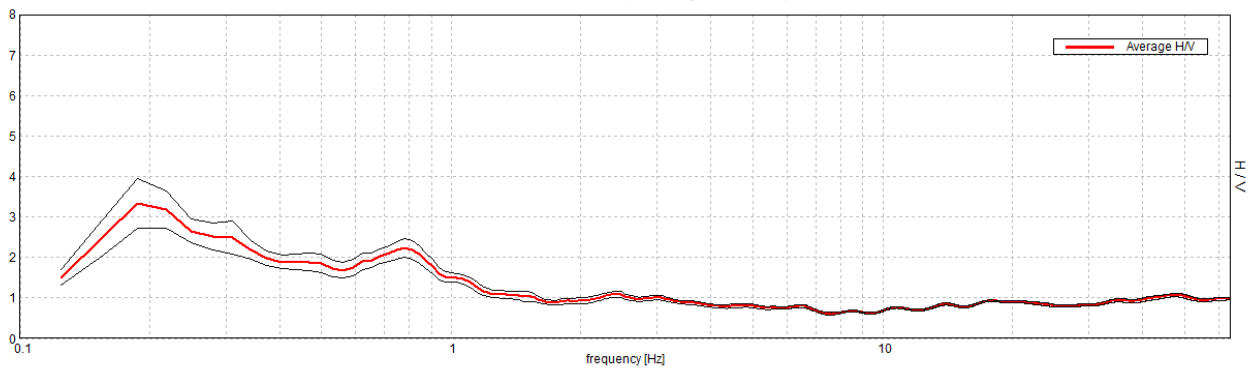
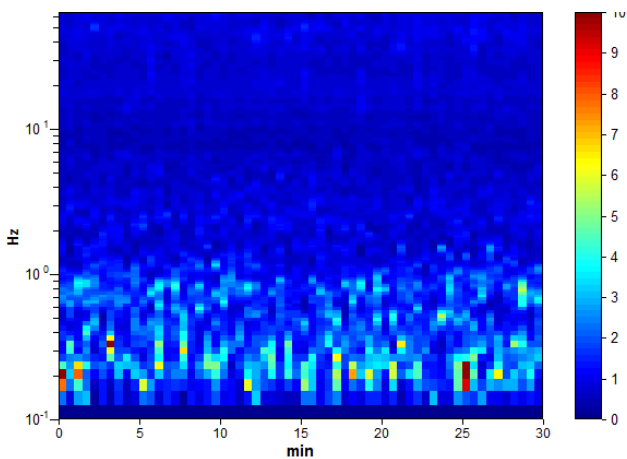
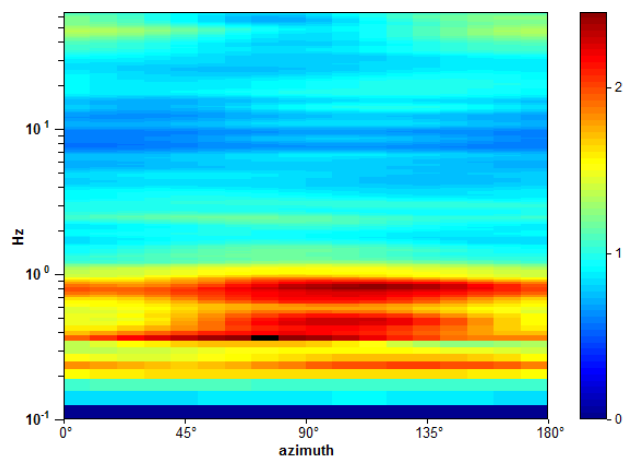
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

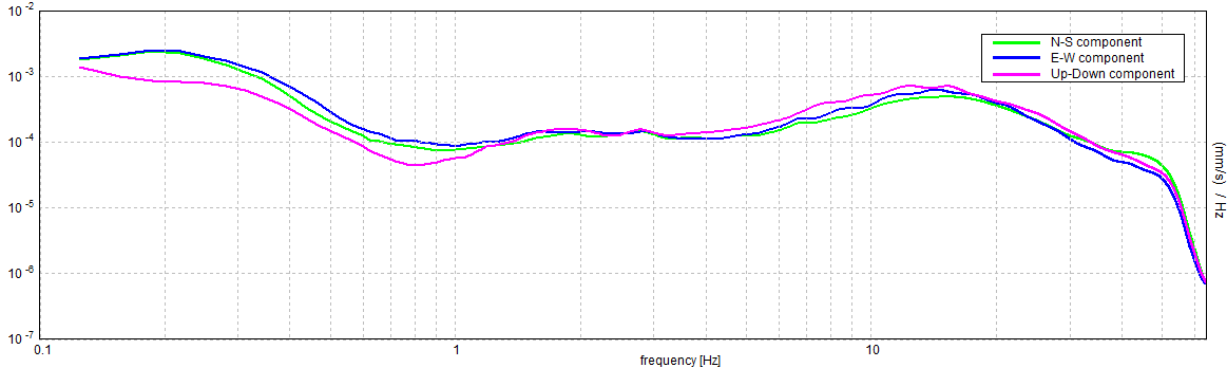
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.78 ± 0.06 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.78 ± 0.06 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.78 > 0.33$	OK	
$n_c(f_0) > 200$	$1406.3 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 38 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.25 Hz	OK	
$A_0 > 2$	$2.24 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.07983 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.06237 < 0.11719$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2323 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE14

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 20/06/20 18:30:02 End recording: 20/06/20 19:00:02

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

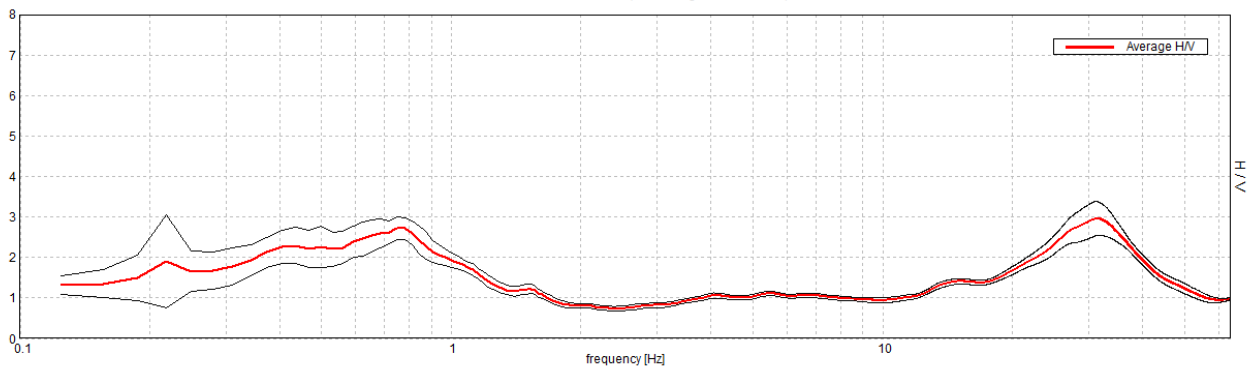
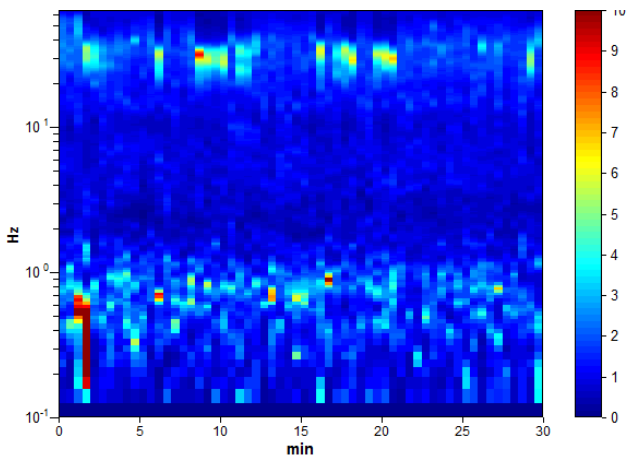
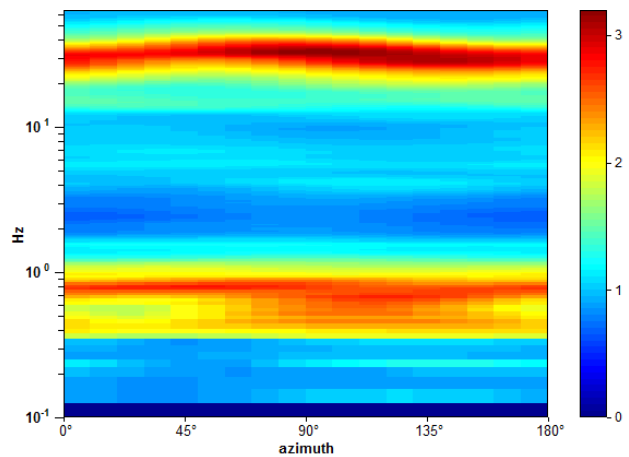
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

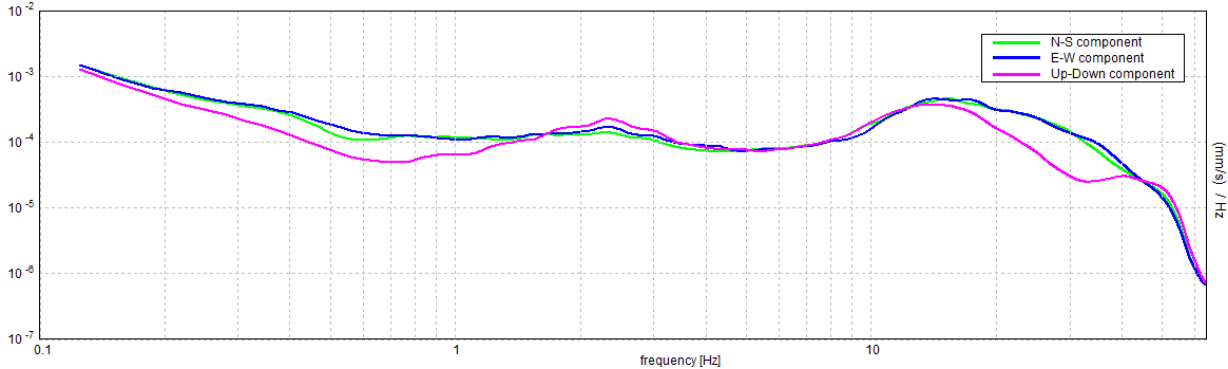
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.75 ± 0.14 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.75 ± 0.14 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.75 > 0.33$	OK	
$n_c(f_0) > 200$	$1350.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 37 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.25 Hz	OK	
$A_0 > 2$	$2.73 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.18122 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.13592 < 0.1125$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.2831 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE15

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 21/06/20 15:42:40 End recording: 21/06/20 16:12:40

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

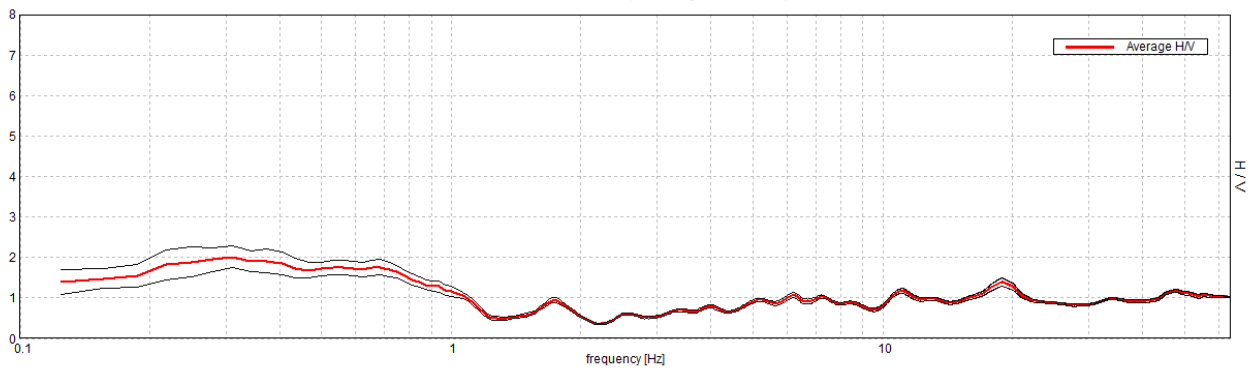
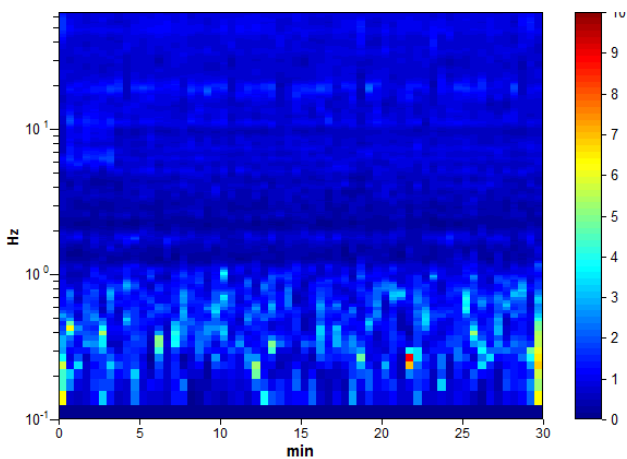
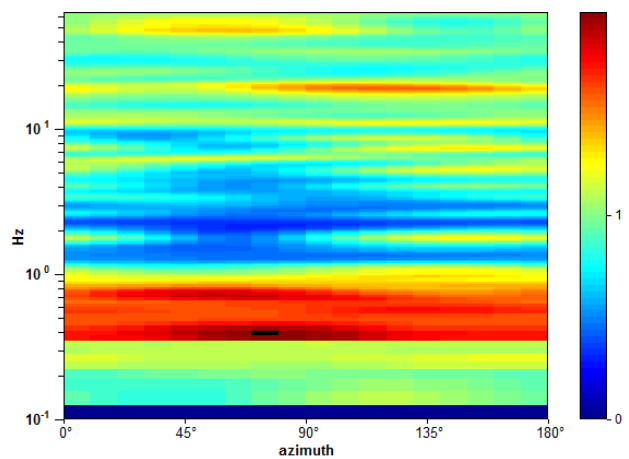
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

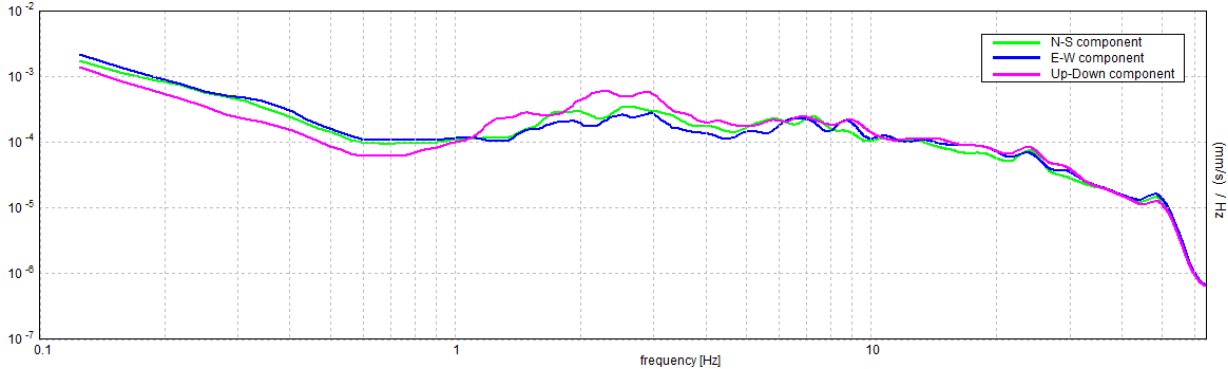
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.69 ± 0.15 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.69 ± 0.15 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.69 > 0.33$	OK	
$n_c(f_0) > 200$	$1237.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 34 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.156 Hz	OK	
$A_0 > 2$	$1.76 > 2$		NO
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.22121 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.15208 < 0.10313$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.1956 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE16

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 21/06/20 16:26:41 End recording: 21/06/20 16:56:41

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

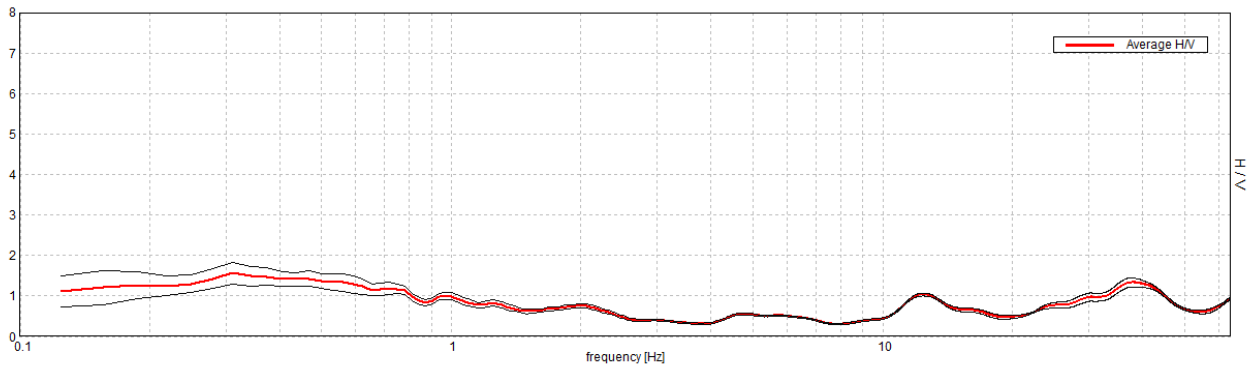
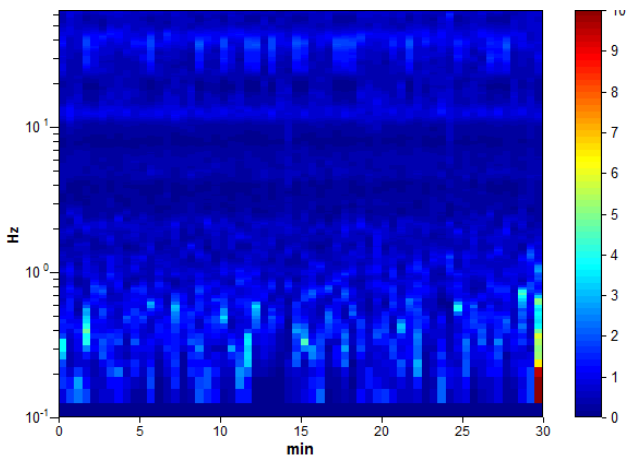
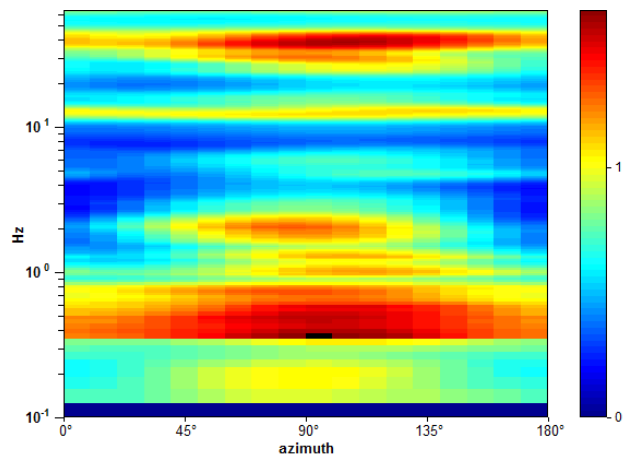
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

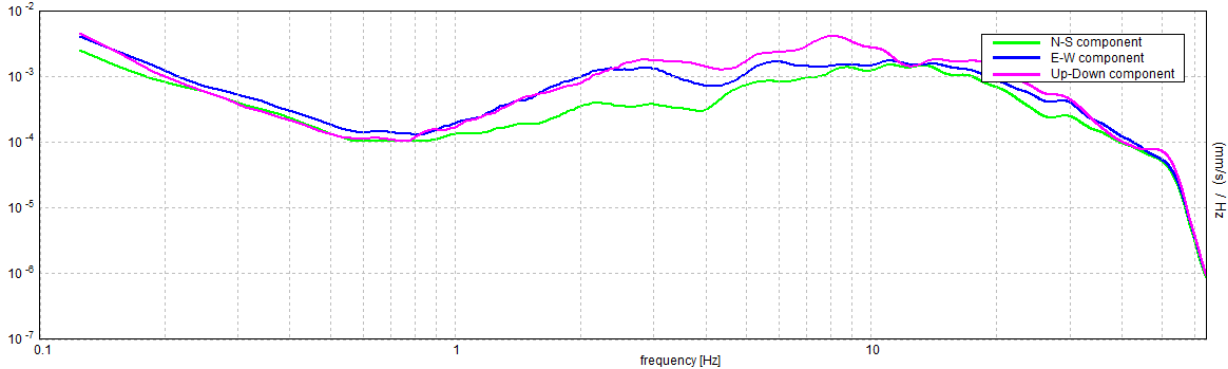
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.5 ± 0.04 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.5 ± 0.04 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.50 > 0.33$	OK	
$n_c(f_0) > 200$	$900.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 25 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.438 Hz	OK	
$A_0 > 2$	$1.36 > 2$		NO
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.08069 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.04034 < 0.075$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.1795 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE17

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 21/06/20 17:03:58 End recording: 21/06/20 17:33:58

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

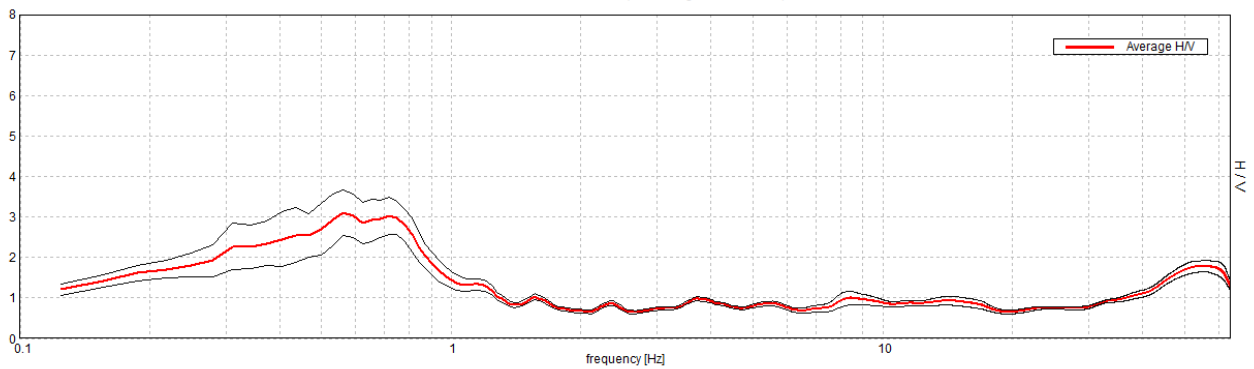
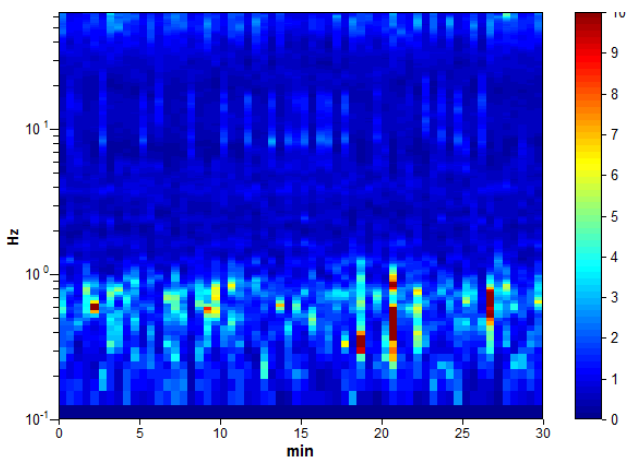
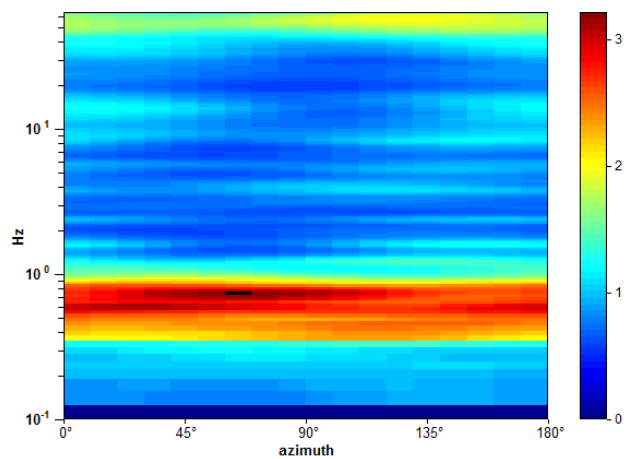
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

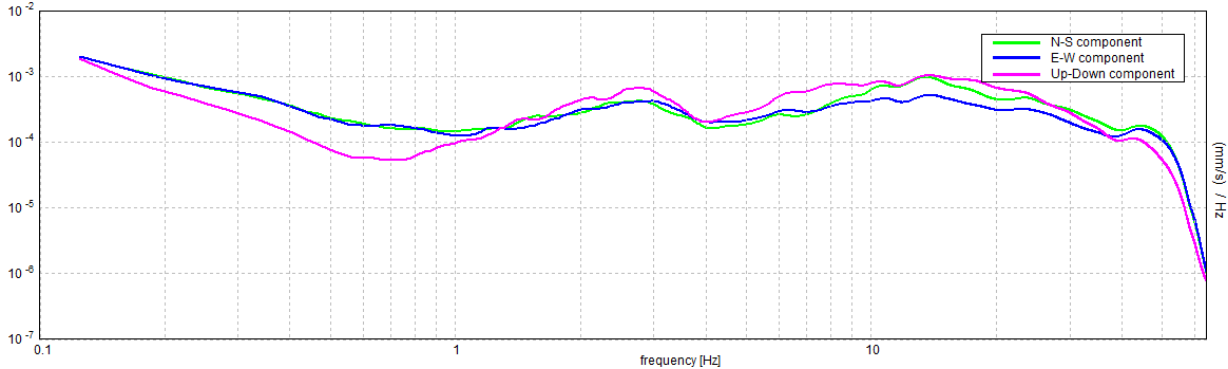
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.56 ± 0.0 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.56 ± 0.0 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.56 > 0.33$	OK	
$n_c(f_0) > 200$	$1012.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 28 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.156 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	0.969 Hz	OK	
$A_0 > 2$	$3.11 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.00717 < 0.05$	OK	
$\sigma_f < \varepsilon(f_0)$	$0.00403 < 0.08438$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.5728 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE18

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 21/06/20 17:44:19 End recording: 21/06/20 18:14:19

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

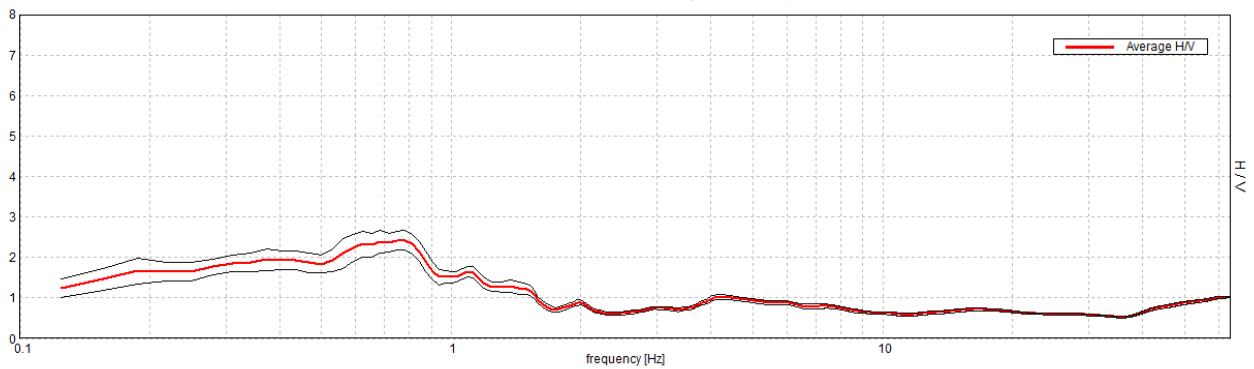
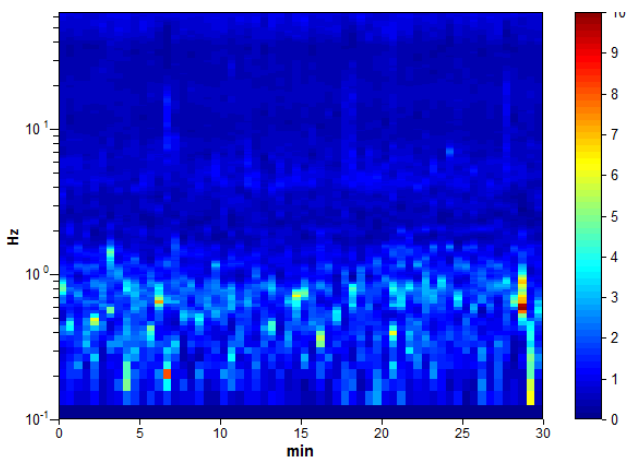
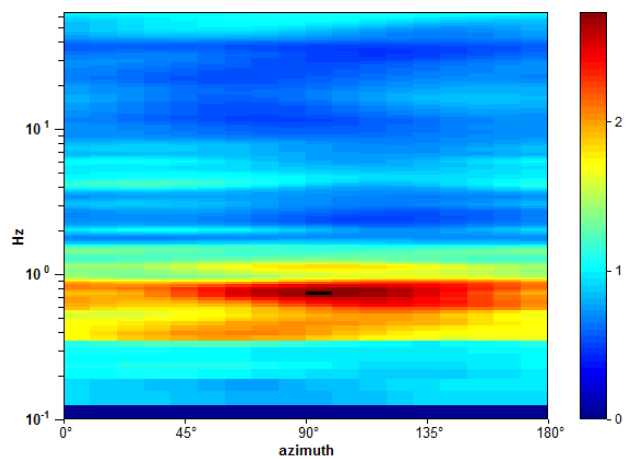
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

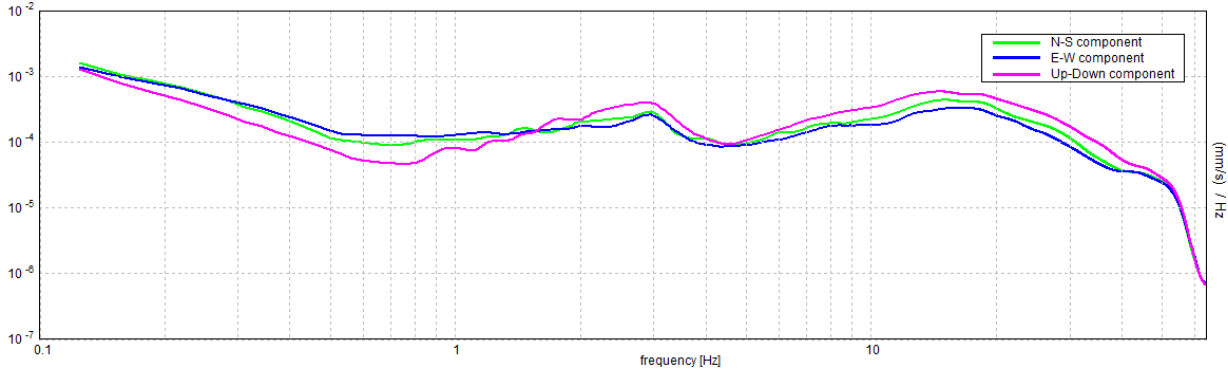
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.78 ± 0.08 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.78 ± 0.08 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.78 > 0.33$	OK	
$n_c(f_0) > 200$	$1406.3 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 38 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.531 Hz	OK	
$A_0 > 2$	$2.43 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.10159 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.07937 < 0.11719$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2374 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE19

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 21/06/20 18:21:36 End recording: 21/06/20 18:51:36

Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN

GPS data not available

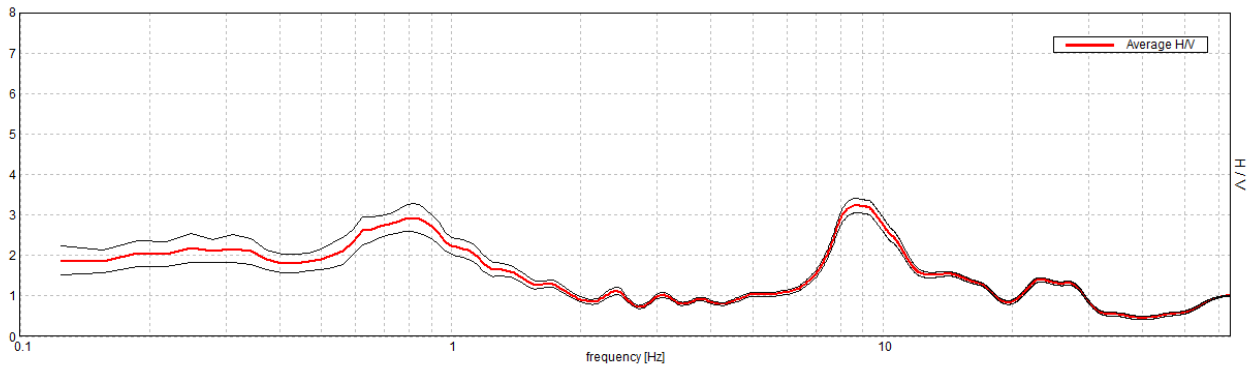
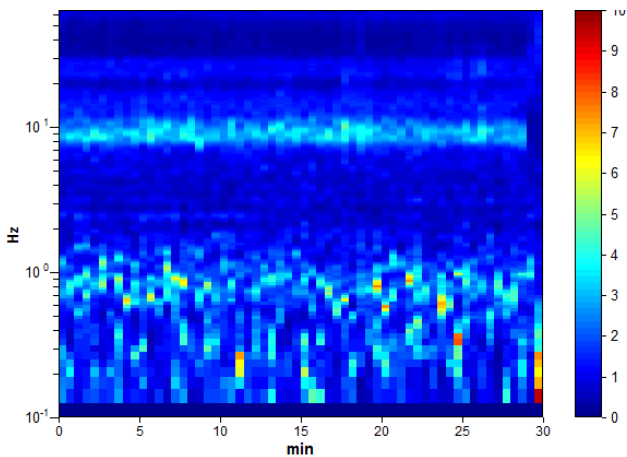
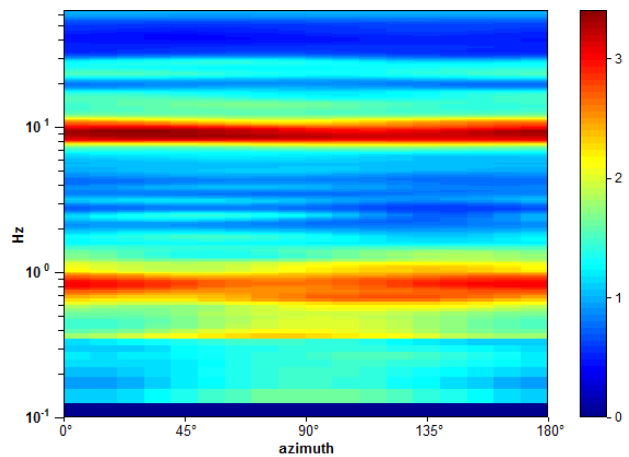
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

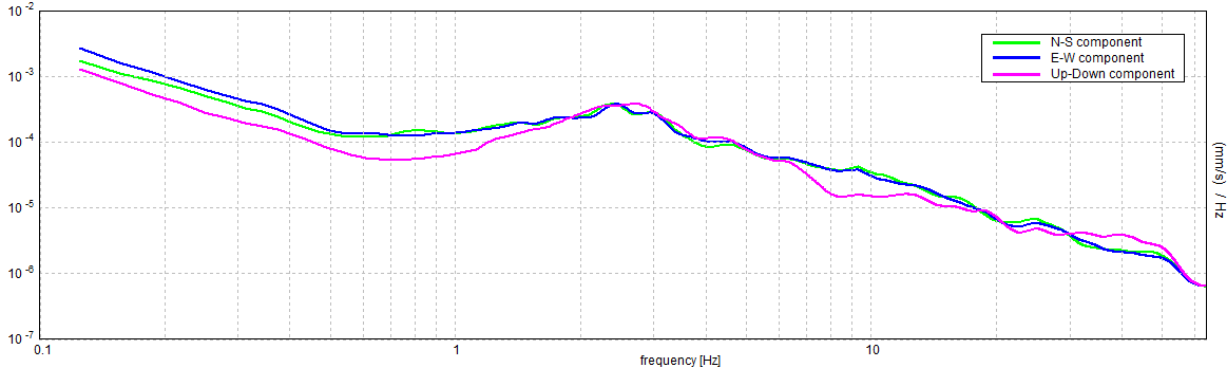
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 8.63 ± 1.4 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 8.63 ± 1.4 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	8.63 > 0.33	OK	
$n_c(f_0) > 200$	15525.0 > 200	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 415 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	7.063 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	12.0 Hz	OK	
$A_0 > 2$	3.24 > 2	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.16252 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$1.40178 < 0.43125$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.1819 < 1.58$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

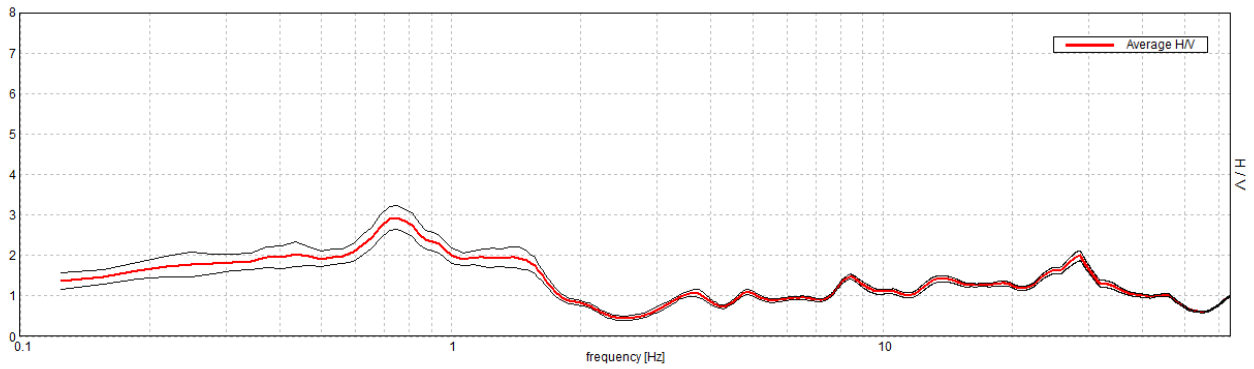
FINALEMILIA, FINE20

Instrument: TZ3-ex04/01-13
 Data format: 16 byte
 Full scale [mV]: 51
 Start recording: 21/06/20 19:01:46 End recording: 21/06/20 19:31:46
 Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
 GPS data not available

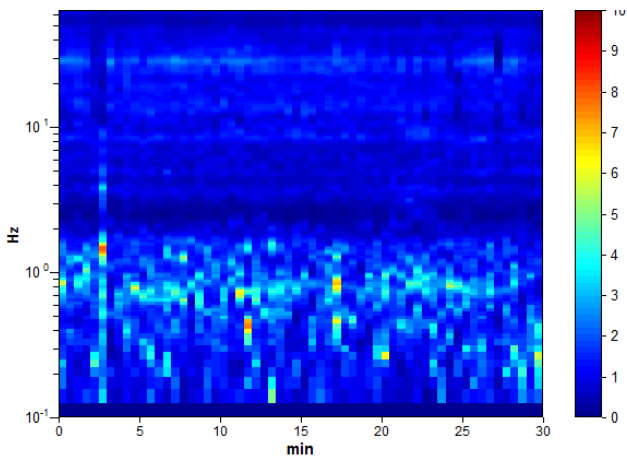
Trace length: 0h30'00". Analysis performed on the entire trace.
 Sampling rate: 128 Hz
 Window size: 30 s
 Smoothing type: Triangular window
 Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIO

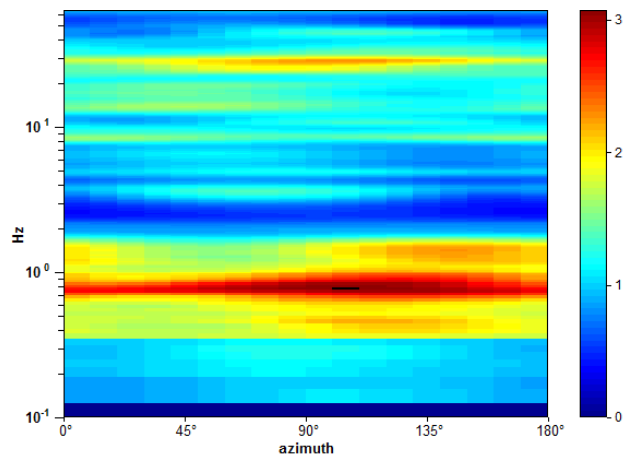
Max. H/V at 0.75 ± 0.04 Hz. (In the range 0.5 - 10.0 Hz).



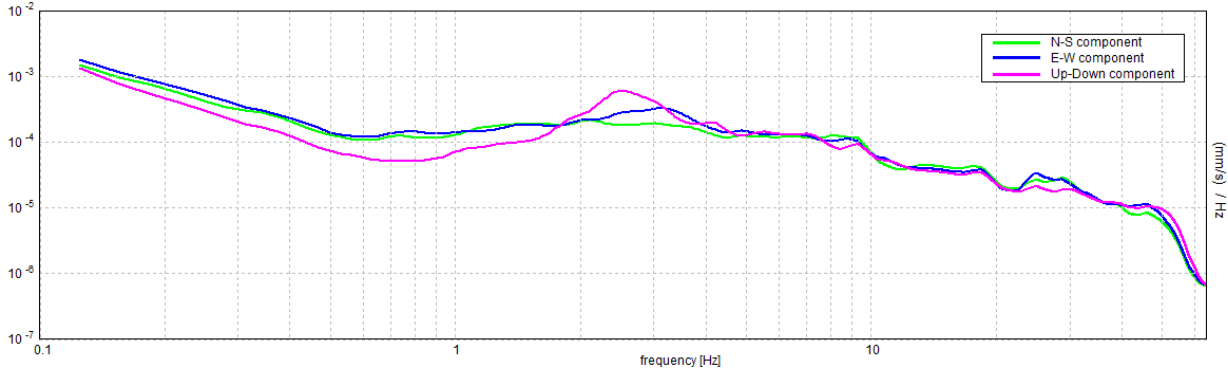
H/V TIME HISTORY



DIRECTIONAL H/V



SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.75 ± 0.04 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.75 > 0.33$	OK	
$n_c(f_0) > 200$	$1350.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 37 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.656 Hz	OK	
$A_0 > 2$	$2.93 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.05564 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.04173 < 0.1125$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2881 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE21

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 23/06/20 16:07:58 End recording: 23/06/20 16:37:58

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

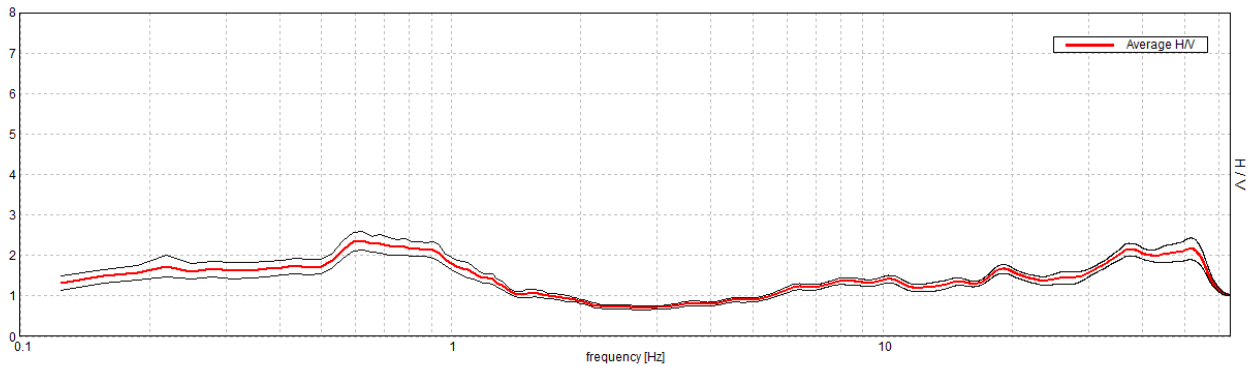
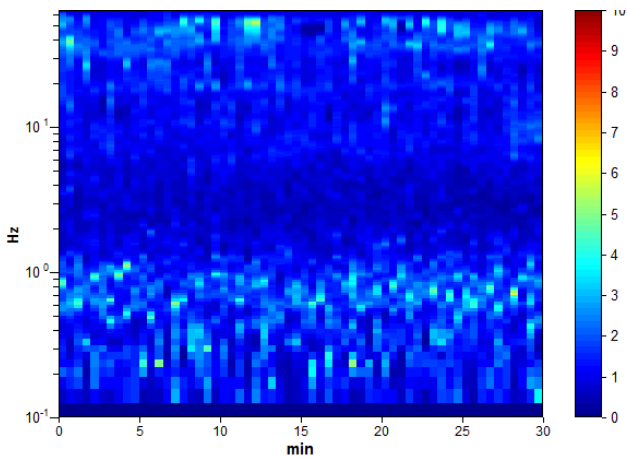
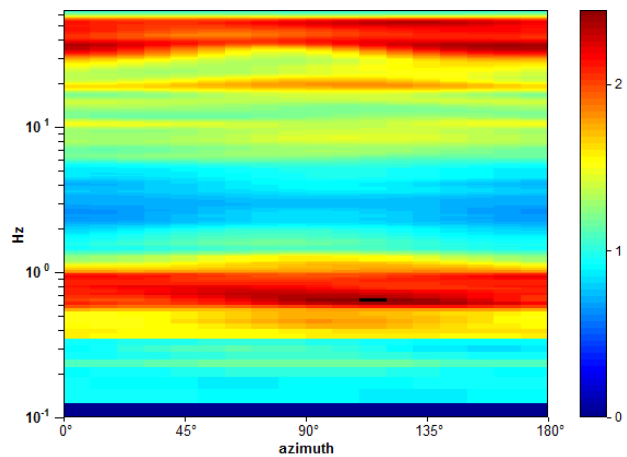
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

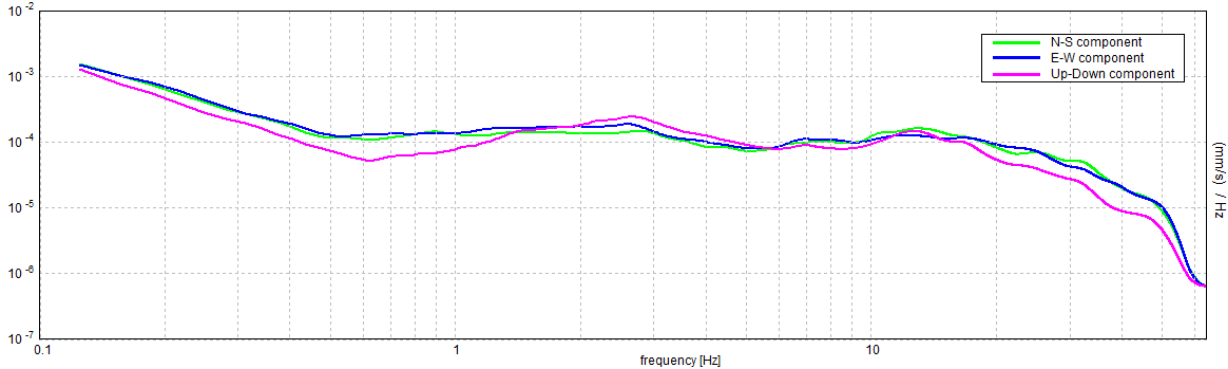
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.04 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.04 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.375 Hz	OK	
$A_0 > 2$	$2.36 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.05845 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.03653 < 0.09375$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2295 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE22

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 15/07/20 14:50:33 End recording: 15/07/20 15:20:33

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

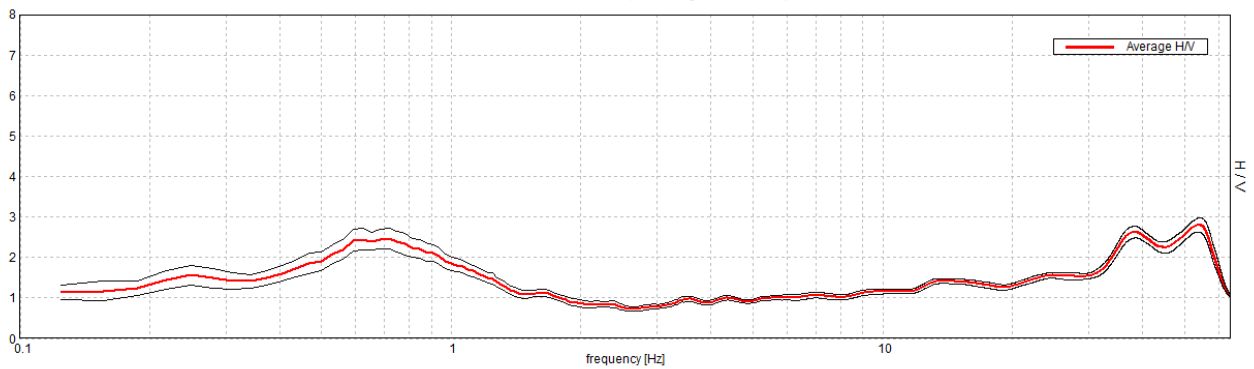
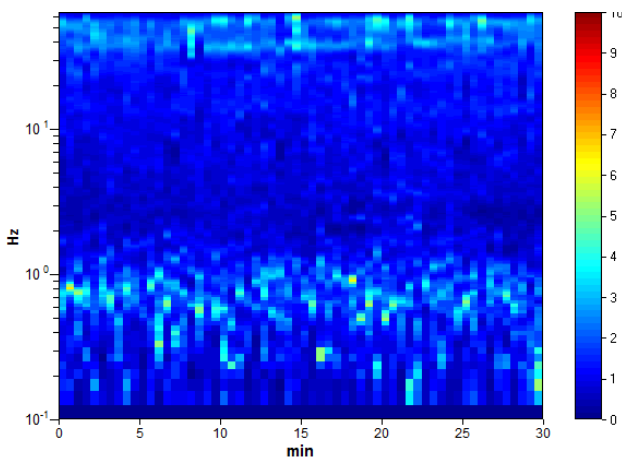
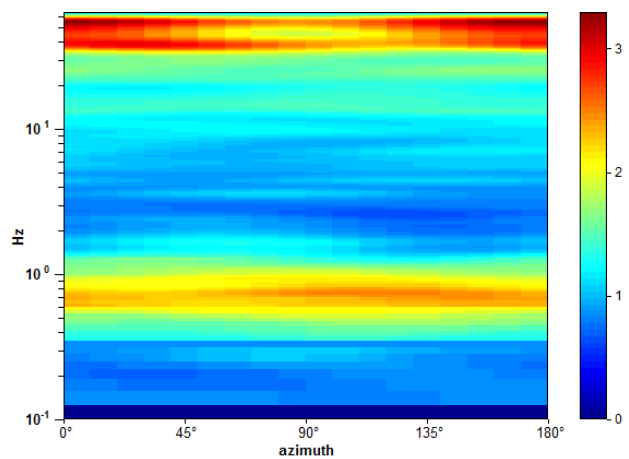
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

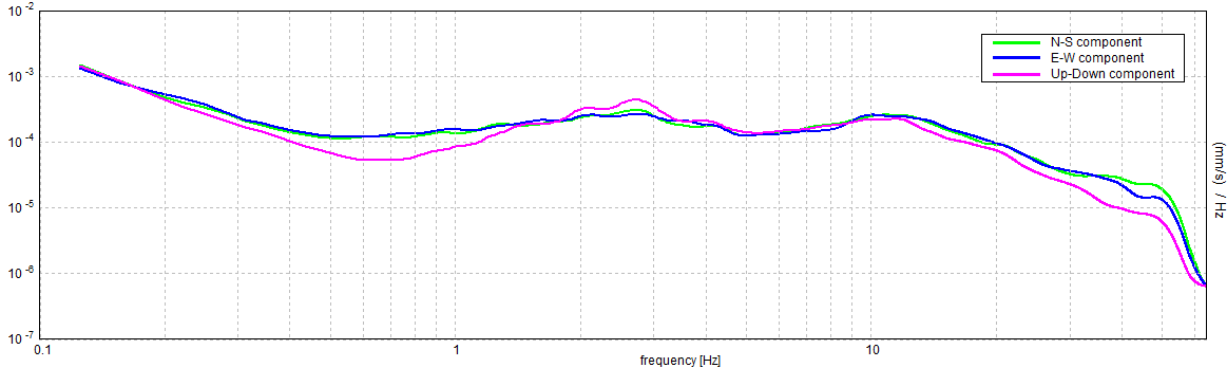
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.72 ± 0.05 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.72 ± 0.05 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.72 > 0.33$	OK	
$n_c(f_0) > 200$	$1293.8 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 36 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.375 Hz	OK	
$A_0 > 2$	$2.47 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.06424 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.04618 < 0.10781$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2499 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE23

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 15/07/20 15:29:49 End recording: 15/07/20 15:59:49

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

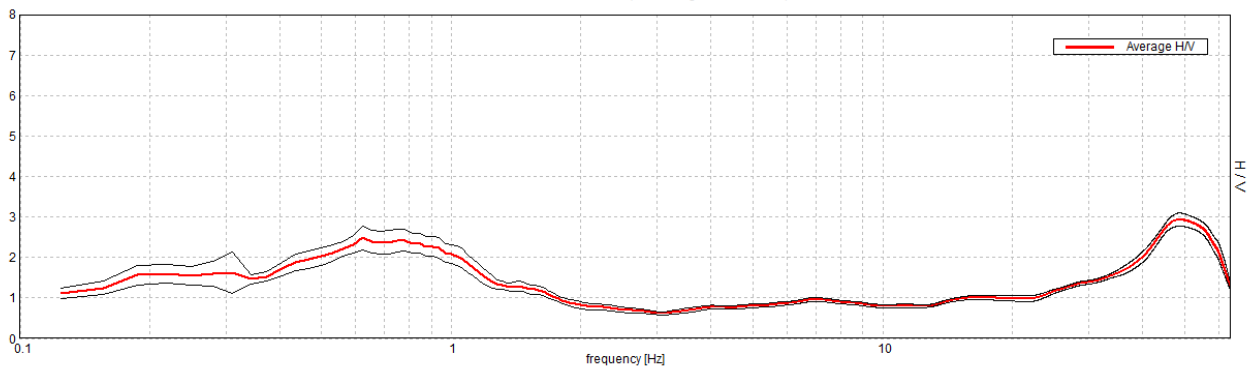
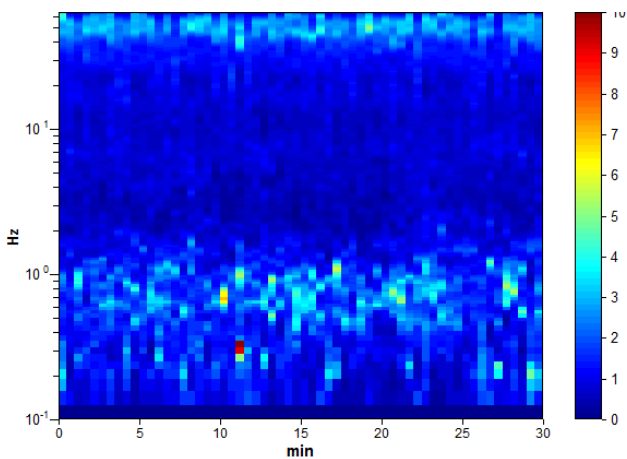
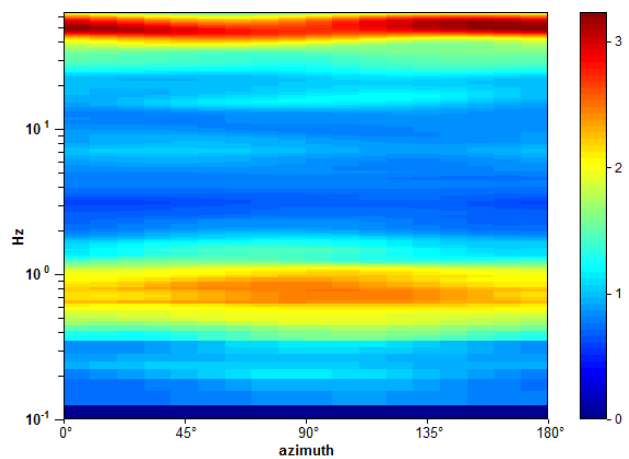
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

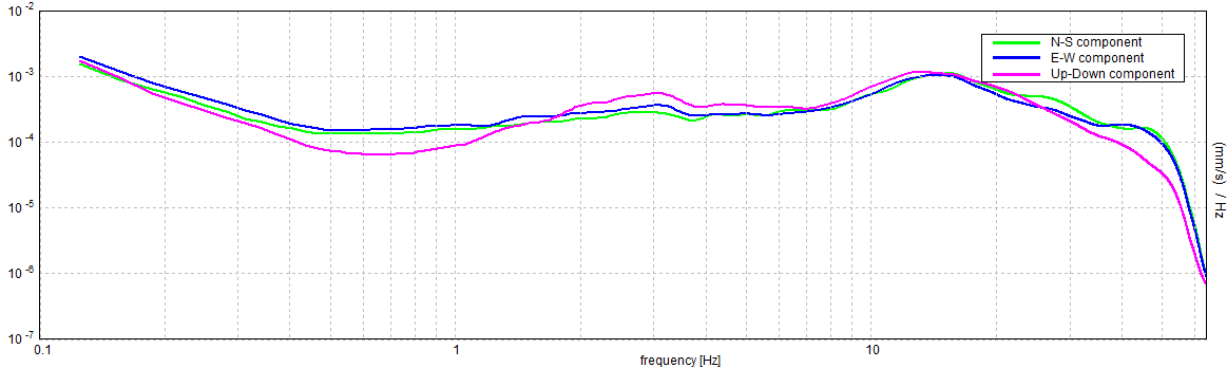
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.11 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.11 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.5 Hz	OK	
$A_0 > 2$	$2.48 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.16931 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.10582 < 0.09375$		NO
$\sigma_A(f_0) < \theta(f_0)$	$0.2909 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE24

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 15/07/20 16:06:02 End recording: 15/07/20 16:36:02

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

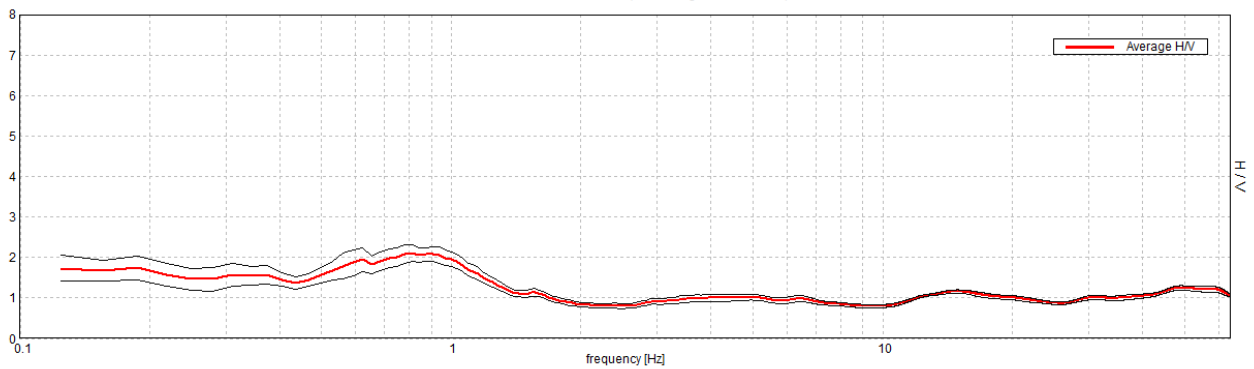
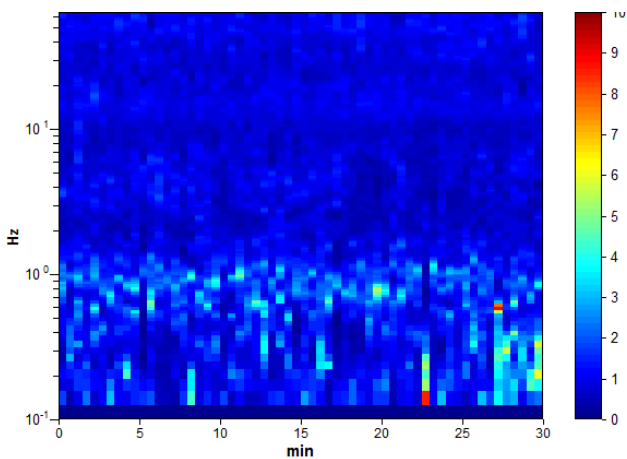
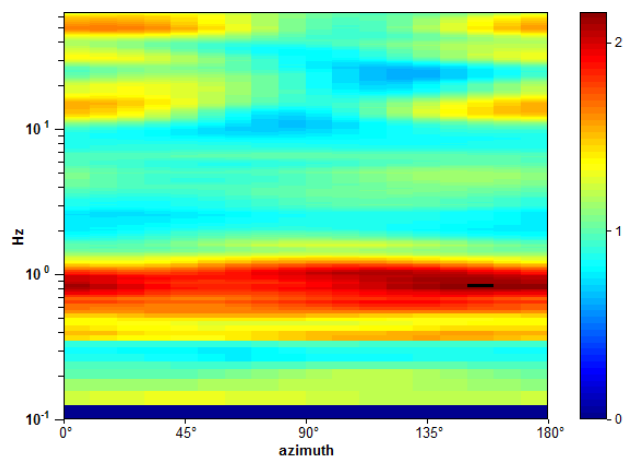
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

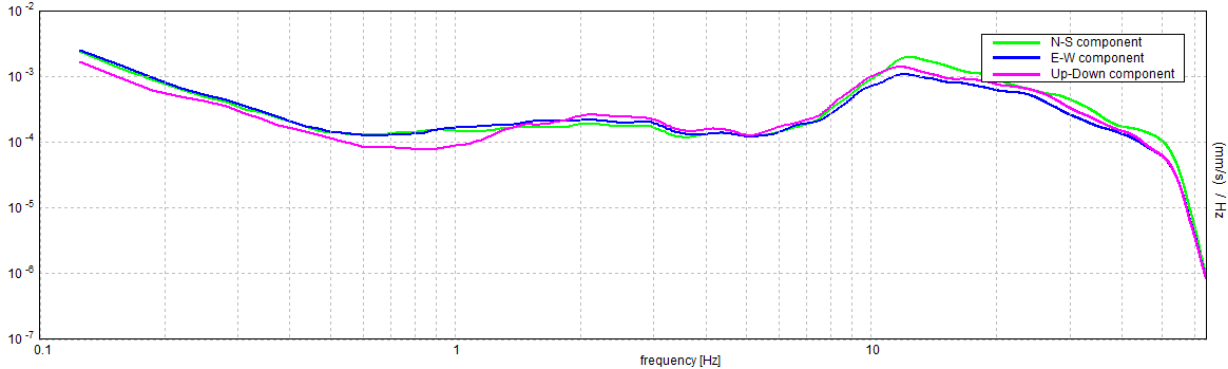
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.81 ± 0.08 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.81 ± 0.08 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.81 > 0.33$	OK	
$n_c(f_0) > 200$	$1462.5 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 40 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$			NO
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.688 Hz	OK	
$A_0 > 2$	$2.10 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.09768 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.07937 < 0.12188$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.2063 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

FINALEMILIA, FINE25

Instrument: TZ3-ex04/01-13

Data format: 16 byte

Full scale [mV]: 51

Start recording: 15/07/20 16:41:57 End recording: 15/07/20 17:11:57

Channel labels: NORTH SOUTH; EAST WEST; UP DOWN

GPS data not available

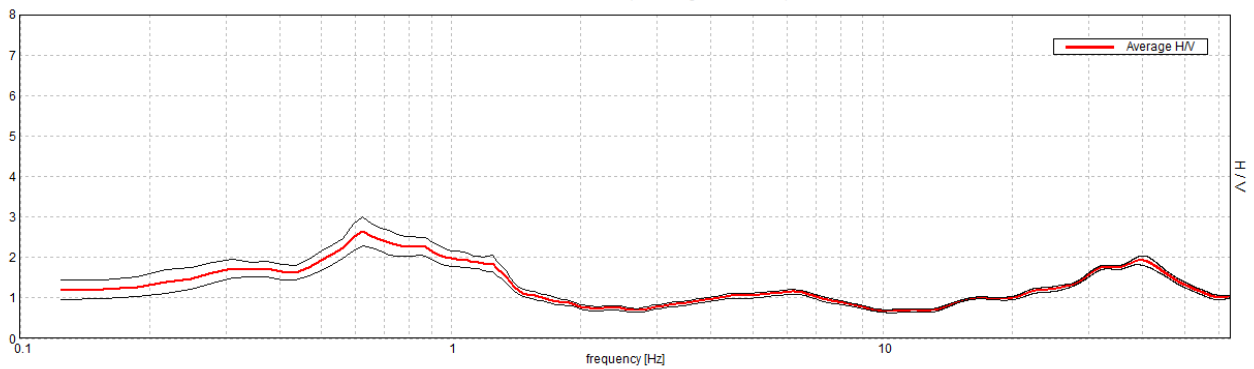
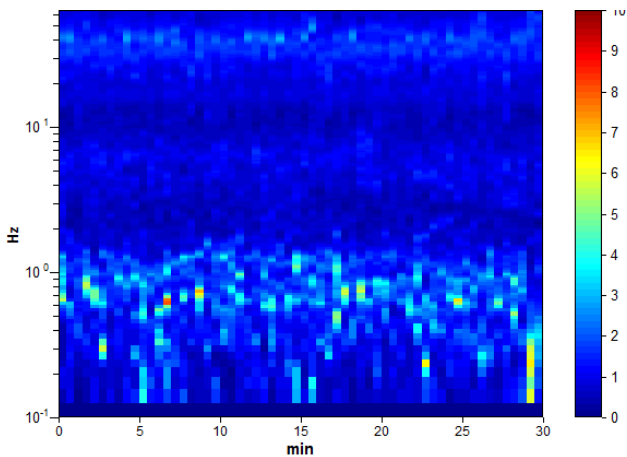
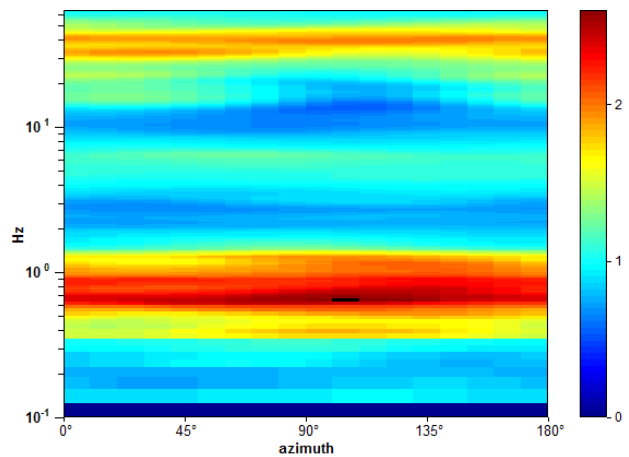
Trace length: 0h30'00". Analysis performed on the entire trace.

Sampling rate: 128 Hz

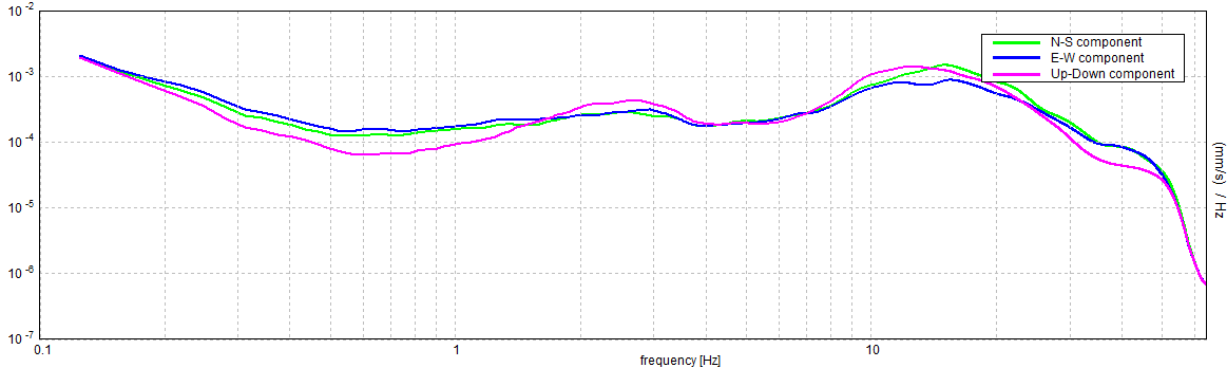
Window size: 30 s

Smoothing type: Triangular window

Smoothing: 10%

HORIZONTAL TO VERTICAL SPECTRAL RATIOMax. H/V at 0.63 ± 0.06 Hz. (In the range 0.5 - 10.0 Hz).**H/V TIME HISTORY****DIRECTIONAL H/V**

SINGLE COMPONENT SPECTRA



[According to the SESAME, 2005 guidelines. Please read carefully the *Grilla* manual before interpreting the following tables.]

Max. H/V at 0.63 ± 0.06 Hz (in the range 0.5 - 10.0 Hz).

Criteria for a reliable H/V curve

[All 3 should be fulfilled]

$f_0 > 10 / L_w$	$0.63 > 0.33$	OK	
$n_c(f_0) > 200$	$1125.0 > 200$	OK	
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5\text{Hz}$ $\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5\text{Hz}$	Exceeded 0 out of 31 times	OK	

Criteria for a clear H/V peak

[At least 5 out of 6 should be fulfilled]

Exists f^- in $[f_0/4, f_0]$ $A_{H/V}(f^-) < A_0 / 2$	0.188 Hz	OK	
Exists f^+ in $[f_0, 4f_0]$ $A_{H/V}(f^+) < A_0 / 2$	1.406 Hz	OK	
$A_0 > 2$	$2.64 > 2$	OK	
$f_{\text{peak}}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	$ 0.10227 < 0.05$		NO
$\sigma_f < \varepsilon(f_0)$	$0.06392 < 0.09375$	OK	
$\sigma_A(f_0) < \theta(f_0)$	$0.3648 < 2.0$	OK	

L_w	window length
n_w	number of windows used in the analysis
$n_c = L_w n_w f_0$	number of significant cycles
f	current frequency
f_0	H/V peak frequency
σ_f	standard deviation of H/V peak frequency
$\varepsilon(f_0)$	threshold value for the stability condition $\sigma_f < \varepsilon(f_0)$
A_0	H/V peak amplitude at frequency f_0
$A_{H/V}(f)$	H/V curve amplitude at frequency f
f^-	frequency between $f_0/4$ and f_0 for which $A_{H/V}(f^-) < A_0/2$
f^+	frequency between f_0 and $4f_0$ for which $A_{H/V}(f^+) < A_0/2$
$\sigma_A(f)$	standard deviation of $A_{H/V}(f)$, $\sigma_A(f)$ is the factor by which the mean $A_{H/V}(f)$ curve should be multiplied or divided
$\sigma_{\log H/V}(f)$	standard deviation of $\log A_{H/V}(f)$ curve
$\theta(f_0)$	threshold value for the stability condition $\sigma_A(f) < \theta(f_0)$

Threshold values for σ_f and $\sigma_A(f_0)$

Freq. range [Hz]	< 0.2	0.2 – 0.5	0.5 – 1.0	1.0 – 2.0	> 2.0
$\varepsilon(f_0)$ [Hz]	$0.25 f_0$	$0.2 f_0$	$0.15 f_0$	$0.10 f_0$	$0.05 f_0$
$\theta(f_0)$ for $\sigma_A(f_0)$	3.0	2.5	2.0	1.78	1.58
$\log \theta(f_0)$ for $\sigma_{\log H/V}(f_0)$	0.48	0.40	0.30	0.25	0.20

PROVA	ID_SPU	LAT. (WGS84)	LONG. (WGS84)	LOCALITA'	DATA	PROF. [m]	QUOTA FALDA DA P.C.
CPTU01	036012P517 CPTU535	44.8360	11.2865	via Mirandola (campo sportivo), loc. Massa Finalese, Finale Emilia	10/07/2020	20,04	4,30
CPTU02	036012P518 CPTU536	44.8481	11.2431	via Gallini, loc. Massa Finalese, Finale Emilia	10/07/2020	20,02	3,60
CPTU03	036012P519 CPTU537	44.8496	11.2194	traversa di via Ceresa, polo industriale, Finale Emilia	10/07/2020	20,04	2,70
CPTU04	036012P520 CPTU538	44.8563	11.2054	via per Modena (parchetto), Finale Emilia	10/07/2020	20,09	4,60
CPTU05	036012P546 CPTU564	44.8230	11.2441	via per Camposanto, Finale Emilia	20/07/2020	20,00	1,30
CPTU06	036012P547 CPTU565	44.8546	11.2152	via Albero, loc. Massa Finalese, Finale Emilia	20/07/2020	20,00	3,80
CPTU07	036012P548 CPTU566	44.8387	11.3057	via Susano, Finale Emilia	20/07/2020	20,00	1,90
CPTU08	036012P549 CPTU567	44.8369	11.3658	via Correggio, loc. Casumaro, Finale Emilia	20/07/2020	20,00	2,40

Sintesi dei dati principali associati alle 12 indagini penetrometriche CPTU eseguite.

036012P517CPTU535

Company information:

Name: G.S.C. Indagini Geognostiche
Address: Via Carpi 21
Zip code: 42018
City: San Martino in Rio
P.IVA: 02322840204
E-Mail: gsc.inge@gmail.com
Phone number: +393334273452
Fax number:

Site information:

Name: Finale Emilia (MO) - Microzonazione
Date: 10/07/2020
Commissioner: Prof. Caputo Riccardo
Locality:

Test information:

Name: CPTU01
Location: FINALE EMILIA
Date: 10/07/2020 10:01:26
Prehole mode:
Prehole depth [cm]: 0
Hydrostatic line [cm]: 430
Ground level [m]: 0
Latitude: 44.836017
Longitude: 11.286505
Operator:
Comments:
Probe code: MKJ608

	Qc	Fs	Speed	
Factors:	188220	31336		10
Zeros:	3957	7829		0

Depth [m]	Qc [MPa]	Fs [KPa]	U2 [KPa]
0.01	0.41	2.17	-0.46
0.02	0.48	4.12	0.64
0.03	0.56	6.89	1.37
0.04	0.65	14.3	1
0.05	0.84	17.46	0.82
0.06	1.13	16.18	0.73
0.07	1.29	17.07	0.46
0.08	1.6	18.73	0.55
0.09	1.81	19.02	0.73
0.1	2.3	21.09	0.46
0.11	2.49	22.47	0.46
0.12	2.7	23.71	-0.18
0.13	2.94	24.38	-0.46
0.14	3.36	24.29	-0.55

0.15	3.58	25.75	-0.55
0.16	4.41	23.49	0.27
0.17	4.72	23.55	-0.55
0.18	5.01	25.24	-0.73
0.19	5.31	30.95	-1.09
0.2	5.73	41.04	-1.64
0.21	5.98	42.12	-1.73
0.22	6.34	50.01	-2.19
0.23	6.5	53.93	-2.1
0.24	6.61	59.77	-1.37
0.25	6.81	65.9	-2.37
0.26	7.12	80.04	-2.28
0.27	7.11	92.32	-4.1
0.28	7.06	110.54	-3.55
0.29	7.13	117.12	-3.1
0.3	7.35	134.13	-3.19
0.31	7.43	141.5	-3.55
0.32	7.46	149.29	-3.19
0.33	7.64	154.77	-2.82
0.34	7.94	178.87	-2.37
0.35	7.92	202.1	-0.73
0.36	7.83	206.82	-0.18
0.37	8.15	199.83	-0.09
0.38	8.19	178.52	-0.46
0.39	7.34	163.9	-0.18
0.4	6.96	191.98	-0.18
0.41	6.96	193.07	-0.18
0.42	6.85	196.45	-0.73
0.43	6.63	196.93	-1.28
0.44	5.9	196.9	-1.37
0.45	5.84	205.2	-1.28
0.46	5.76	208.04	-0.82
0.47	5.71	201.94	-0.91
0.48	5.71	186.46	-1
0.49	5.71	186.46	-1
0.5	5.76	163.2	-0.73
0.51	5.86	162.98	-0.55
0.52	5.84	174.59	-0.64
0.53	5.78	184.2	-0.73
0.54	5.41	172.61	-0.82
0.55	5.41	172.61	-0.82
0.56	5.24	166.58	-0.82
0.57	5.03	161.57	-0.82
0.58	4.85	158.89	-0.91
0.59	4.44	156.91	-0.73
0.6	4.33	153.98	-0.73
0.61	4.33	153.98	-0.73

0.62	4.11	146	-0.73
0.63	3.87	139.3	-0.64
0.64	3.83	136.11	-0.64
0.65	3.8	132.69	-0.64
0.66	3.76	119.89	-0.55
0.67	3.75	112.78	-0.64
0.68	3.71	107.9	-0.64
0.69	3.72	95.86	-0.46
0.7	3.76	89.51	-0.55
0.71	3.8	77.1	-0.55
0.72	3.79	72.31	-0.55
0.73	3.77	70.21	-0.55
0.74	3.77	68.39	-0.55
0.75	3.78	64.85	-0.55
0.76	3.81	62.52	-0.36
0.77	3.81	60.6	-0.55
0.78	3.8	59.74	-0.64
0.79	3.78	58.85	-0.64
0.8	3.74	57.28	-0.64
0.81	3.68	54.79	-0.64
0.82	3.67	54.7	-0.73
0.83	3.64	54.15	-0.82
0.84	3.62	53.71	-0.82
0.85	3.59	53.64	-0.91
0.86	3.54	53.61	-0.91
0.87	3.44	52.53	-1.09
0.88	3.37	51.83	-1.09
0.89	3.25	50.26	-1.18
0.9	3.18	49.53	-1.09
0.91	3.12	48.57	-1.09
0.92	2.99	47.49	-1.09
0.93	2.99	47.49	-1.09
0.94	2.78	45.44	-1
0.95	2.72	45	-0.91
0.96	2.57	43.11	-1
0.97	2.49	42.48	-1
0.98	2.4	41.61	-1.09
0.99	2.33	40.75	-1
1	2.2	38.01	-0.82
1.01	2.15	36.32	-0.82
1.02	2.11	35.01	-0.82
1.03	2.05	32.93	-0.73
1.04	2.02	31.91	-0.73
1.05	1.99	30.99	-0.55
1.06	1.97	29.65	-0.55
1.07	1.97	28.98	-0.09
1.08	0.81	10.56	-0.18

1.09	0.81	10.56	-0.18
1.1	0.81	10.56	-0.18
1.11	0.74	9.22	-0.46
1.12	1.88	25.69	0.91
1.13	1.97	26.36	0.09
1.14	2.09	27.41	-0.18
1.15	2.15	27.92	-0.18
1.16	2.15	27.92	-0.18
1.17	2.15	27.83	-0.18
1.18	2.14	28.31	-0.09
1.19	2.14	28.15	-0.18
1.2	2.06	27.67	-0.36
1.21	2.02	27.76	-0.36
1.22	2.02	27.76	-0.36
1.23	1.98	28.21	-0.36
1.24	1.93	26.93	-0.36
1.25	1.91	26.07	-0.46
1.26	1.88	24.44	-0.46
1.27	1.83	22.43	-0.55
1.28	1.83	22.43	-0.55
1.29	1.75	21.32	-0.64
1.3	1.64	20.9	-0.64
1.31	1.57	20.55	-0.46
1.32	1.49	19.59	-0.36
1.33	1.32	20.71	-0.27
1.34	1.25	22.08	-0.18
1.35	1.2	23.81	-0.09
1.36	1.06	27.22	0.46
1.37	1.01	30.03	0.91
1.38	1	32.3	2.55
1.39	1.09	36	7.93
1.4	1.17	36.95	8.29
1.41	1.26	37.31	8.2
1.42	1.47	38.45	3.74
1.43	1.55	39.12	0.64
1.44	1.59	40.5	-0.91
1.45	1.58	41.84	-2.55
1.46	1.58	40.75	-2.55
1.47	1.56	39.06	-2.46
1.48	1.54	38.14	-1.73
1.49	1.45	38.17	-0.91
1.5	1.41	39.19	-1
1.51	1.4	40.82	3.46
1.52	1.4	41.77	4.74
1.53	1.4	42.67	4.46
1.54	1.42	43.62	4.37
1.55	1.51	45.03	-3.74

1.56	1.58	45.28	-4.1
1.57	1.69	48.35	-4.46
1.58	1.71	48.73	-4.83
1.59	1.71	48.86	-5.28
1.6	1.72	49.97	-5.37
1.61	1.83	52.97	-6.29
1.62	1.88	54.15	-8.29
1.63	1.93	54.83	-11.84
1.64	1.98	55.69	-5.19
1.65	2	56.17	-5.74
1.66	2	56.64	-6.19
1.67	1.89	58.4	-5.83
1.68	1.8	60.57	-5.74
1.69	1.69	62.93	-5.83
1.7	1.47	67.69	-3.55
1.71	1.37	70.21	-2.55
1.72	1.3	72.47	0.55
1.73	1.25	74.2	3.1
1.74	1.21	76.11	24.96
1.75	1.21	75.15	35.53
1.76	1.24	70.11	35.16
1.77	1.24	67.81	32.07
1.78	1.25	65.29	30.25
1.79	1.28	63.44	28.79
1.8	1.31	60.19	20.13
1.81	1.32	60.47	18.4
1.82	1.32	61.34	16.03
1.83	1.32	61.34	16.03
1.84	1.29	63.79	14.03
1.85	1.28	66.09	13.3
1.86	1.26	71.26	18.68
1.87	1.28	73.88	19.31
1.88	1.28	75.92	20.77
1.89	1.29	78.28	20.95
1.9	1.31	83.48	22.14
1.91	1.32	87.25	21.04
1.92	1.32	93.18	19.13
1.93	1.32	94.49	19.59
1.94	1.34	94.72	22.23
1.95	1.34	94.94	20.68
1.96	1.35	94.3	19.13
1.97	1.35	93.79	16.22
1.98	1.32	90.63	13.48
1.99	1.29	90.73	12.94
2	1.26	91.4	16.58
2.01	1.24	92	17.58
2.02	1.19	92.77	22.32

2.03	1.16	92.99	24.23
2.04	1.14	93.53	24.78
2.05	1.12	94.2	28.24
2.06	1.09	94.17	28.79
2.07	1.06	94.49	28.88
2.08	1.06	94.49	28.88
2.09	1.04	92.55	30.61
2.1	1.04	92.55	30.61
2.11	1.04	92.55	30.61
2.12	0.97	83.67	11.66
2.13	0.96	81.57	11.39
2.14	0.96	77.93	11.3
2.15	0.96	76.46	11.48
2.16	0.96	73.78	11.57
2.17	0.96	72.38	11.3
2.18	0.96	70.69	11.02
2.19	0.96	69.38	10.84
2.2	0.95	67.14	10.84
2.21	0.94	65.61	10.75
2.22	0.93	63.86	10.39
2.23	0.93	63.86	10.39
2.24	0.91	62.9	10.11
2.25	0.9	62.29	10.02
2.26	0.9	60.67	9.84
2.27	0.91	60.09	9.75
2.28	0.91	59.68	9.66
2.29	0.92	59.74	9.47
2.3	0.94	59.77	9.38
2.31	0.94	60.12	9.29
2.32	0.94	60.63	9.2
2.33	0.92	61.62	9.11
2.34	0.91	61.97	9.02
2.35	0.91	61.65	8.93
2.36	0.91	61.65	8.93
2.37	0.9	61.05	8.65
2.38	0.9	60.73	8.56
2.39	0.9	60.57	8.47
2.4	0.9	60.7	8.38
2.41	0.89	60.41	8.29
2.42	0.89	60.41	8.29
2.43	0.9	59.52	8.2
2.44	0.9	58.72	8.11
2.45	0.91	57.22	7.93
2.46	0.92	56.45	7.83
2.47	0.91	55.65	7.74
2.48	0.9	55.27	7.74
2.49	0.92	53.64	7.47

2.5	0.92	52.94	7.47
2.51	0.92	52.72	7.29
2.52	0.92	52.05	7.11
2.53	0.93	52.05	6.83
2.54	0.93	52.4	6.83
2.55	0.93	52.4	6.83
2.56	0.93	52.94	6.56
2.57	0.95	54.06	6.56
2.58	0.95	54.6	6.74
2.59	0.94	54.7	19.59
2.6	0.97	54.76	18.49
2.61	0.96	55.11	18.13
2.62	0.95	55.43	16.12
2.63	0.94	55.62	14.58
2.64	0.94	55.4	14.39
2.65	0.91	54.89	13.94
2.66	0.9	55.34	11.93
2.67	0.88	55.56	11.57
2.68	0.86	55.69	11.39
2.69	0.84	56.36	11.02
2.7	0.82	56.07	14.21
2.71	0.81	56.26	14.39
2.72	0.8	55.69	17.31
2.73	0.79	55.43	17.4
2.74	0.79	55.14	17.76
2.75	0.77	55.24	17.76
2.76	0.77	55.08	18.86
2.77	0.74	53.71	18.22
2.78	0.74	52.69	18.04
2.79	0.73	49.78	17.58
2.8	0.72	49.27	17.49
2.81	0.71	48.95	17.22
2.82	0.71	47.8	17.67
2.83	0.71	46.43	17.4
2.84	0.7	44.29	16.94
2.85	0.7	44.17	16.85
2.86	0.69	44.01	16.85
2.87	0.7	43.88	16.85
2.88	0.74	42	16.67
2.89	0.74	41.36	16.67
2.9	0.75	40.91	16.58
2.91	0.81	38.96	16.49
2.92	0.83	38.65	16.31
2.93	0.86	38.36	16.12
2.94	0.86	38.36	16.12
2.95	0.95	37.75	16.22
2.96	0.99	37.43	16.22

2.97	1.01	37.24	16.22
2.98	1.09	36.73	13.85
2.99	1.12	38.39	13.57
3	1.12	38.39	13.57
3.01	1.14	44.45	13.94
3.02	1.08	48.12	13.39
3.03	1.08	47.64	12.21
3.04	1.08	48.09	10.48
3.05	1.06	52.88	9.38
3.06	1.06	52.88	9.38
3.07	1.04	60.09	9.75
3.08	1.04	60.09	9.75
3.09	1.04	60.09	9.75
3.1	1.08	60.95	26.6
3.11	1.09	61.88	24.41
3.12	1.09	61.65	22.59
3.13	1.08	60.86	20.04
3.14	1.09	62.04	16.67
3.15	1.09	62.04	16.67
3.16	1.08	63.54	14.21
3.17	1.06	63.57	12.75
3.18	1.04	62.96	11.11
3.19	1.02	62.23	10.2
3.2	1	61.34	9.47
3.21	0.96	62.29	8.2
3.22	0.96	62.29	8.2
3.23	0.92	64.56	7.56
3.24	0.92	65.61	7.74
3.25	0.96	67.33	11.02
3.26	0.99	67.53	13.12
3.27	1.03	67.46	13.85
3.28	1.06	66.92	14.85
3.29	1.11	66.54	17.22
3.3	1.11	65.83	17.86
3.31	1.11	64.3	18.4
3.32	1.12	60.73	18.4
3.33	1.12	58.88	18.22
3.34	1.12	57.03	17.86
3.35	1.12	56.2	17.58
3.36	1.12	55.97	17.04
3.37	1.09	57.47	13.21
3.38	1.07	58.91	13.39
3.39	1.06	60.09	14.12
3.4	1.08	60.28	14.39
3.41	1.09	59.64	14.39
3.42	1.11	59.68	14.3
3.43	1.12	59.71	14.3

3.44	1.13	60.95	14.3
3.45	1.15	62.07	14.48
3.46	1.17	62.99	14.85
3.47	1.2	63.22	15.49
3.48	1.2	65.32	15.49
3.49	1.2	65.32	15.49
3.5	1.18	65.2	15.4
3.51	1.18	63.95	15.03
3.52	1.16	63.98	14.85
3.53	1.16	64.18	14.85
3.54	1.16	64.18	14.85
3.55	1.17	65.01	14.58
3.56	1.16	66.89	14.39
3.57	1.17	66.89	14.21
3.58	1.18	68.1	13.85
3.59	1.17	69.41	13.76
3.6	1.17	69.41	13.76
3.61	1.13	70.43	13.39
3.62	1.11	70.3	13.3
3.63	1.08	69.31	13.12
3.64	1.09	68.96	12.94
3.65	1.09	68.87	12.85
3.66	1.09	70.17	12.75
3.67	1.08	71.45	12.66
3.68	1.08	71.29	12.57
3.69	1.08	70.72	12.39
3.7	1.06	70.3	12.12
3.71	1.05	69.7	12.03
3.72	1.03	69.09	11.93
3.73	1.01	68.52	11.93
3.74	1	68.07	11.48
3.75	0.98	66.82	11.3
3.76	0.97	66.57	10.57
3.77	0.93	65.8	10.57
3.78	0.91	65.71	11.11
3.79	0.88	65.61	11.48
3.8	0.87	64.56	11.84
3.81	0.86	63.73	12.48
3.82	0.87	61.18	14.12
3.83	0.88	59.36	14.58
3.84	0.89	57.79	14.58
3.85	0.89	55.27	14.3
3.86	0.88	54.28	14.21
3.87	0.87	53.64	14.03
3.88	0.87	52.78	14.03
3.89	0.86	51.76	13.76
3.9	0.86	50.77	13.66

3.91	0.86	50.1	13.57
3.92	0.85	49.18	13.48
3.93	0.86	48.79	13.39
3.94	0.87	48.95	13.21
3.95	0.87	49.85	13.3
3.96	0.87	51.25	13.21
3.97	0.86	52.11	13.3
3.98	0.86	53.23	13.21
3.99	0.86	53.23	13.21
4	0.86	53.39	13.03
4.01	0.83	53.9	12.66
4.02	0.82	53.61	12.48
4.03	0.79	53.64	12.3
4.04	0.77	53.33	12.21
4.05	0.75	52.62	12.3
4.06	0.75	52.62	12.3
4.07	0.75	52.62	12.3
4.08	0.75	52.62	12.3
4.09	0.67	50.9	11.93
4.1	0.63	50.2	11.84
4.11	0.62	49.78	11.75
4.12	0.58	49.24	11.66
4.13	0.56	48.92	11.48
4.14	0.53	48.57	11.57
4.15	0.53	48.57	11.57
4.16	0.49	46.75	11.75
4.17	0.48	43.78	11.75
4.18	0.47	42.67	11.93
4.19	0.47	41.93	12.12
4.2	0.46	40.69	12.66
4.21	0.46	40.69	12.66
4.22	0.47	38.07	14.21
4.23	0.48	36.6	14.76
4.24	0.49	33.92	15.58
4.25	0.49	32.49	16.03
4.26	0.49	31.15	16.58
4.27	0.48	29.49	17.58
4.28	0.48	28.66	17.67
4.29	0.47	27.76	17.58
4.3	0.47	26.74	17.4
4.31	0.47	25.24	17.13
4.32	0.46	24.96	17.22
4.33	0.46	24.73	17.49
4.34	0.46	24.38	18.04
4.35	0.47	24.06	19.22
4.36	0.52	23.9	20.86
4.37	0.54	23.93	22.05

4.38	0.56	24.29	23.32
4.39	0.62	25.34	26.6
4.4	0.64	25.56	29.79
4.41	0.67	25.5	32.61
4.42	0.69	25.94	34.62
4.43	0.7	27.7	40.27
4.44	0.7	28.85	41.27
4.45	0.7	29.36	41.36
4.46	0.67	30.8	42.36
4.47	0.67	30.8	42.36
4.48	0.64	31.88	41.27
4.49	0.62	32.71	40.72
4.5	0.59	33.79	40.08
4.51	0.53	34.85	38.9
4.52	0.5	35.33	38.26
4.53	0.47	36	37.44
4.54	0.47	36	37.44
4.55	0.41	39.48	35.71
4.56	0.39	41.17	35.35
4.57	0.37	42.35	34.98
4.58	0.34	43.82	33.8
4.59	0.32	43.69	33.34
4.6	0.31	43.18	32.98
4.61	0.3	42	32.8
4.62	0.29	40.78	32.7
4.63	0.28	38.52	32.43
4.64	0.28	36.86	32.34
4.65	0.27	33.76	32.25
4.66	0.27	32.26	32.43
4.67	0.27	30.95	33.25
4.68	0.27	29.77	36.53
4.69	0.26	29.04	38.44
4.7	0.25	27.67	38.44
4.71	0.24	26.68	38.26
4.72	0.24	25.37	37.99
4.73	0.24	24.7	37.81
4.74	0.24	23.81	37.81
4.75	0.24	23.68	37.99
4.76	0.24	23.9	38.26
4.77	0.26	23.84	40.54
4.78	0.27	23.46	44.18
4.79	0.29	22.72	49.19
4.8	0.3	21.99	58.58
4.81	0.31	21.41	68.14
4.82	0.35	20.07	84.72
4.83	0.38	19.24	92.01
4.84	0.4	18.67	99.12

4.85	0.44	18.99	100.03
4.86	0.44	18.99	100.03
4.87	0.47	17.52	100.57
4.88	0.49	16.72	101.12
4.89	0.54	16.59	104.04
4.9	0.58	17.26	105.04
4.91	0.63	17.55	107.5
4.92	0.68	17.78	111.87
4.93	0.75	18.64	116.7
4.94	0.78	18.38	116.7
4.95	0.82	17.84	115.97
4.96	0.9	19.53	114.79
4.97	0.9	22.94	115.61
4.98	0.89	27.44	113.78
4.99	0.87	30.7	111.41
5	0.84	33.09	109.23
5.01	0.83	33.44	103.85
5.02	0.81	33.57	101.3
5.03	0.78	34.5	98.93
5.04	0.71	36.41	93.83
5.05	0.67	37.4	91.65
5.06	0.64	39.03	89.37
5.07	0.64	39.03	89.37
5.08	0.64	39.03	89.37
5.09	0.67	37.31	66.05
5.1	0.6	40.66	68.05
5.11	0.57	40.59	68.14
5.12	0.55	39.92	68.78
5.13	0.52	38.58	71.6
5.14	0.5	38.01	73.15
5.15	0.49	37.02	75.16
5.16	0.49	35.1	78.07
5.17	0.5	30.8	86.45
5.18	0.52	30.06	95.56
5.19	0.53	29.01	106.86
5.2	0.55	26.93	116.97
5.21	0.6	21.51	137.29
5.22	0.63	19.59	151.68
5.23	0.66	18.19	166.17
5.24	0.66	18.19	166.17
5.25	0.82	15.92	180.29
5.26	0.9	15.7	182.75
5.27	1.04	16.4	177.64
5.28	1.04	16.4	177.64
5.29	1.1	17.55	172.27
5.3	1.11	18.86	169.08
5.31	1.11	20.39	164.89

5.32	1.08	24.83	158.51
5.33	1.06	28.24	153.41
5.34	1.04	31.37	148.95
5.35	1.03	34.59	145.3
5.36	1.02	39.73	138.74
5.37	1.01	42.28	136.28
5.38	1	45.06	134.37
5.39	1	47.2	132.19
5.4	1.01	50.74	127.63
5.41	1.01	50.74	127.63
5.42	1	54.25	122.35
5.43	0.98	55.85	119.8
5.44	0.91	57.79	116.15
5.45	0.88	58.21	114.79
5.46	0.87	57.67	113.33
5.47	0.85	53.42	109.5
5.48	0.83	52.69	107.41
5.49	0.8	52.3	105.4
5.5	0.8	52.3	105.4
5.51	0.72	52.62	102.76
5.52	0.67	52.46	100.57
5.53	0.65	52.5	99.66
5.54	0.64	52.02	98.93
5.55	0.63	51.89	98.39
5.56	0.63	50.29	97.66
5.57	0.63	49.24	97.39
5.58	0.63	48	97.11
5.59	0.65	46.27	96.47
5.6	0.65	45.79	96.29
5.61	0.66	44.87	96.02
5.62	0.66	43.11	95.65
5.63	0.67	41.55	95.11
5.64	0.68	39.28	94.38
5.65	0.69	38.58	94.11
5.66	0.71	37.31	94.11
5.67	0.71	37.31	94.11
5.68	0.73	36.64	94.47
5.69	0.74	36.22	94.74
5.7	0.75	36.19	95.11
5.71	0.78	36.25	95.2
5.72	0.79	36.48	95.56
5.73	0.8	36.76	95.75
5.74	0.8	38.81	95.38
5.75	0.81	39.32	95.2
5.76	0.81	39.35	95.11
5.77	0.82	39.28	95.11
5.78	0.85	38.29	94.74

5.79	0.87	38.52	94.65
5.8	0.89	39.03	94.83
5.81	0.9	39.6	94.74
5.82	0.89	40.05	93.38
5.83	0.88	40.21	92.65
5.84	0.86	41.74	91.46
5.85	0.87	42.06	91.01
5.86	0.88	42.03	90.37
5.87	0.88	44.23	88.82
5.88	0.88	45.47	88.18
5.89	0.87	46.94	87.91
5.9	0.86	48.67	87.73
5.91	0.86	49.66	87.64
5.92	0.87	51	87.73
5.93	0.9	51.73	87.73
5.94	0.94	52.59	87.91
5.95	1	54.06	88.18
5.96	1.03	54.89	88
5.97	1.05	55.46	87.55
5.98	1.08	56.04	84.36
5.99	1.08	56.84	82.81
6	1.07	58.56	81.08
6.01	1.05	61.65	79.44
6.02	1.04	63.7	78.98
6.03	1.01	65.39	78.8
6.04	1	67.02	78.35
6.05	1	69.47	78.98
6.06	1.02	70.59	79.26
6.07	1.02	70.59	79.26
6.08	1.02	70.59	79.26
6.09	1.07	73.97	85
6.1	1.07	73.97	85
6.11	1.12	75.86	85.27
6.12	1.14	76.4	84.08
6.13	1.15	75.6	83.27
6.14	1.17	74.8	82.35
6.15	1.19	74.07	81.08
6.16	1.16	75.54	78.44
6.17	1.14	76.27	77.07
6.18	1.11	77.26	75.79
6.19	1.07	78.95	75.79
6.2	1.05	80.2	76.52
6.21	1.05	80.2	76.52
6.22	1	81.98	76.34
6.23	0.99	82.91	76.52
6.24	0.96	84.28	76.34
6.25	0.95	84.92	76.52

6.26	0.94	85.52	76.89
6.27	0.92	85.81	76.98
6.28	0.89	83.99	77.25
6.29	0.88	82.24	77.53
6.3	0.88	82.24	77.53
6.31	0.86	76.59	77.71
6.32	0.86	75.76	77.98
6.33	0.87	73.91	78.25
6.34	0.88	71.39	78.44
6.35	0.88	69.31	78.62
6.36	0.83	65.45	79.07
6.37	0.83	62.52	79.44
6.38	0.83	57.47	79.8
6.39	0.83	55.53	79.71
6.4	0.83	54.15	79.71
6.41	0.81	53.52	79.62
6.42	0.8	52.5	79.8
6.43	0.8	50.9	80.44
6.44	0.8	50.71	80.53
6.45	0.8	50.29	81.17
6.46	0.8	48.7	81.72
6.47	0.8	48.7	81.72
6.48	0.79	48.73	82.35
6.49	0.78	48.89	82.72
6.5	0.79	47.96	83.54
6.51	0.8	47.33	83.72
6.52	0.82	46.27	84.08
6.53	0.83	45.22	83.99
6.54	0.83	45.22	83.99
6.55	0.88	44.39	84.45
6.56	0.88	44.39	84.45
6.57	0.92	45.35	84.63
6.58	1.01	46.18	85.63
6.59	1.06	46.88	85.91
6.6	1.09	47.52	85.91
6.61	1.12	47.74	86
6.62	1.14	47.84	85.63
6.63	1.14	47.84	85.63
6.64	1.13	47.9	82.9
6.65	1.06	52.62	81.26
6.66	1.01	55.72	81.17
6.67	0.99	57.98	81.26
6.68	0.99	60.28	81.26
6.69	0.98	62.48	81.26
6.7	0.97	65.99	80.9
6.71	0.97	67.91	80.99
6.72	0.95	69.57	80.81

6.73	0.92	72.54	81.26
6.74	0.92	72.54	81.26
6.75	0.91	72.31	81.9
6.76	0.92	72.03	82.45
6.77	0.97	70.56	82.81
6.78	0.97	68.8	82.54
6.79	0.96	67.3	82.35
6.8	0.95	65.77	82.26
6.81	0.96	63.73	82.26
6.82	0.99	60.95	82.08
6.83	0.99	60.95	82.08
6.84	1.03	59.23	82.17
6.85	1.04	58.46	82.17
6.86	1.03	58.02	82.17
6.87	1.03	57.98	82.26
6.88	1.01	57.89	82.08
6.89	1.01	57.57	81.44
6.9	1	58.08	81.44
6.91	0.98	58.65	81.26
6.92	0.95	60.31	80.9
6.93	0.91	60.63	80.62
6.94	0.89	61.49	80.71
6.95	0.87	62.32	80.9
6.96	0.86	62.55	81.44
6.97	0.87	61.97	81.72
6.98	0.88	60.54	81.9
6.99	0.9	58.53	82.35
7	0.9	58.08	83.54
7.01	0.91	57.82	84.54
7.02	0.92	57.25	84.9
7.03	0.94	56.52	85.18
7.04	0.97	54.15	85.91
7.05	0.99	52.75	86.09
7.06	1	51.54	86.18
7.07	1	51.54	86.18
7.08	1	51.54	86.18
7.09	1.05	43.5	126.54
7.1	1.05	43.5	126.54
7.11	1.03	44.87	128.18
7.12	1.01	45.57	126.54
7.13	1	45.89	124.99
7.14	1	48.12	122.35
7.15	0.99	49.46	121.07
7.16	0.97	51.57	118.61
7.17	0.96	53.01	118.34
7.18	0.95	54.09	117.15
7.19	0.96	54.28	115.61

7.2	0.94	54.98	114.6
7.21	0.91	56.07	114.15
7.22	0.84	58.59	112.69
7.23	0.82	59.29	111.6
7.24	0.8	59.26	110.78
7.25	0.77	58.75	110.05
7.26	0.76	58.81	109.5
7.27	0.76	58.37	108.96
7.28	0.75	57.82	108.68
7.29	0.72	58.02	108.5
7.3	0.71	57.54	108.32
7.31	0.71	56.8	107.86
7.32	0.72	54.06	106.59
7.33	0.72	54.06	106.59
7.34	0.72	51.67	105.68
7.35	0.73	50.01	105.4
7.36	0.74	48.41	105.04
7.37	0.73	46.78	104.49
7.38	0.71	46.43	104.22
7.39	0.7	46.15	103.76
7.4	0.7	46.15	103.76
7.41	0.69	45.09	103.03
7.42	0.69	45.09	103.03
7.43	0.67	43.91	102.67
7.44	0.67	43.3	102.49
7.45	0.67	43.24	102.4
7.46	0.67	43.15	102.49
7.47	0.66	43.05	102.4
7.48	0.66	42.89	102.76
7.49	0.67	42.67	103.03
7.5	0.67	42.16	103.4
7.51	0.67	40.53	103.76
7.52	0.68	39.89	103.76
7.53	0.68	39.89	103.76
7.54	0.69	38.01	103.76
7.55	0.72	36.99	103.94
7.56	0.72	36.54	103.76
7.57	0.73	36.32	103.4
7.58	0.73	35.61	104.13
7.59	0.74	35.1	104.31
7.6	0.75	34.66	104.31
7.61	0.75	34.43	104.49
7.62	0.76	34.47	104.31
7.63	0.75	34.75	104.58
7.64	0.75	35.04	105.68
7.65	0.74	35.68	106.04
7.66	0.74	35.93	105.93

7.67	0.73	35.84	105.77
7.68	0.73	35.84	105.77
7.69	0.72	36.57	106.22
7.7	0.7	37.4	107.22
7.71	0.69	37.82	108.32
7.72	0.67	37.75	108.96
7.73	0.67	37.75	109.23
7.74	0.67	37.5	109.14
7.75	0.67	37.27	108.96
7.76	0.67	37.08	108.77
7.77	0.65	36.7	108.68
7.78	0.64	36.12	108.77
7.79	0.64	36.12	108.77
7.8	0.66	34.72	109.32
7.81	0.67	33.89	110.87
7.82	0.69	32.97	112.14
7.83	0.69	32.52	111.87
7.84	0.7	31.98	111.41
7.85	0.7	31.72	111.14
7.86	0.69	32.26	111.14
7.87	0.69	33.09	111.87
7.88	0.67	33.76	112.87
7.89	0.66	34.5	114.69
7.9	0.66	34.62	115.7
7.91	0.66	34.56	116.52
7.92	0.66	34.69	116.33
7.93	0.65	35.68	116.61
7.94	0.65	36.28	116.79
7.95	0.65	36.7	116.79
7.96	0.66	36.76	116.52
7.97	0.66	36.64	116.7
7.98	0.66	36.41	116.61
7.99	0.66	36.19	116.52
8	0.66	35.87	116.7
8.01	0.65	35.14	119.7
8.02	0.65	34.43	120.71
8.03	0.66	33.57	121.34
8.04	0.69	32.45	122.71
8.05	0.7	32.23	123.17
8.06	0.71	32.04	122.35
8.07	0.71	32.04	122.35
8.08	0.71	32.04	122.35
8.09	0.73	34.34	131.37
8.1	0.73	34.85	133.28
8.11	0.72	35.39	135.83
8.12	0.72	36.12	138.11
8.13	0.71	37.08	138.56

8.14	0.71	37.69	141.11
8.15	0.7	38.2	141.57
8.16	0.7	39.12	142.66
8.17	0.7	39.54	142.48
8.18	0.7	39.95	142.75
8.19	0.69	40.4	143.48
8.2	0.69	40.4	143.48
8.21	0.68	40.18	148.22
8.22	0.68	39.67	149.22
8.23	0.69	39.12	151.41
8.24	0.69	38.74	153.5
8.25	0.68	38.42	158.7
8.26	0.67	37.66	168.9
8.27	0.67	37.53	171.9
8.28	0.67	37.27	175.28
8.29	0.67	37.24	178.28
8.3	0.68	37.08	176.82
8.31	0.68	37.08	176.82
8.32	0.67	36.83	173.36
8.33	0.67	36.28	175.28
8.34	0.66	35.55	174.46
8.35	0.66	35.07	172.45
8.36	0.66	34.91	170.27
8.37	0.66	35.26	168.53
8.38	0.65	35.42	166.44
8.39	0.63	35.07	164.98
8.4	0.63	35.07	164.98
8.41	0.62	34.53	166.71
8.42	0.62	34.18	167.53
8.43	0.61	33.73	169.54
8.44	0.61	33.57	169.45
8.45	0.61	33.41	168.81
8.46	0.61	33.28	167.99
8.47	0.61	33.22	166.71
8.48	0.62	32.58	163.8
8.49	0.63	32.33	162.89
8.5	0.62	32.45	163.25
8.51	0.62	32.61	162.34
8.52	0.62	32.61	162.34
8.53	0.62	32.26	159.52
8.54	0.6	32.36	159.15
8.55	0.6	32.42	158.33
8.56	0.58	32.04	156.78
8.57	0.58	31.85	156.24
8.58	0.58	31.85	156.24
8.59	0.57	31.72	156.24
8.6	0.57	31.85	158.15

8.61	0.56	32.52	161.61
8.62	0.55	32.71	162.89
8.63	0.54	32.68	165.25
8.64	0.54	32.07	166.44
8.65	0.54	32.07	166.44
8.66	0.54	31.53	167.17
8.67	0.54	30.76	166.62
8.68	0.54	29.93	166.35
8.69	0.54	29.23	165.89
8.7	0.54	28.56	165.71
8.71	0.55	27.83	165.98
8.72	0.56	27.51	166.44
8.73	0.57	27.22	165.98
8.74	0.58	26.97	164.16
8.75	0.58	27.16	163.16
8.76	0.59	27.51	162.16
8.77	0.59	28.75	161.79
8.78	0.59	28.75	161.79
8.79	0.58	30.06	162.43
8.8	0.59	30.64	162.7
8.81	0.6	31.02	162.79
8.82	0.61	31.47	162.7
8.83	0.63	32.17	161.7
8.84	0.63	32.84	161.06
8.85	0.64	33.92	160.52
8.86	0.64	35.36	160.34
8.87	0.64	36.92	159.24
8.88	0.64	37.5	158.6
8.89	0.63	37.91	158.6
8.9	0.63	38.29	159.06
8.91	0.64	38.71	159.15
8.92	0.64	39.16	158.97
8.93	0.63	39.44	158.6
8.94	0.63	39.76	158.42
8.95	0.63	40.05	158.33
8.96	0.64	40.27	157.51
8.97	0.63	40.43	157.24
8.98	0.63	40.94	157.51
8.99	0.63	41.8	158.15
9	0.63	43.02	158.7
9.01	0.64	43.3	159.15
9.02	0.64	43.27	158.7
9.03	0.64	43.18	158.6
9.04	0.63	43.69	159.15
9.05	0.62	43.94	159.7
9.06	0.62	44.26	160.06
9.07	0.62	44.26	160.06

9.08	0.62	44.26	160.06
9.09	0.63	42.86	162.61
9.1	0.63	43.15	164.8
9.11	0.63	42.89	165.35
9.12	0.64	42.28	166.07
9.13	0.66	41.36	167.26
9.14	0.67	41.04	167.81
9.15	0.67	41.04	167.81
9.16	0.68	41.42	167.44
9.17	0.68	41.9	167.08
9.18	0.69	42.12	167.17
9.19	0.69	42.12	166.89
9.2	0.69	42.19	166.53
9.21	0.7	42.22	166.26
9.22	0.7	42.32	166.17
9.23	0.7	42.63	166.44
9.24	0.71	42.32	165.98
9.25	0.7	42.67	165.62
9.26	0.7	43.11	165.8
9.27	0.69	44.9	168.35
9.28	0.69	45.35	168.44
9.29	0.69	45.89	168.44
9.3	0.69	46.46	168.44
9.31	0.69	46.62	167.99
9.32	0.69	47.49	167.71
9.33	0.69	47.77	167.44
9.34	0.69	48	167.81
9.35	0.69	48.35	168.17
9.36	0.69	48.35	168.17
9.37	0.69	48.41	170.08
9.38	0.69	48	169.99
9.39	0.69	47.49	170.27
9.4	0.68	47.13	170.54
9.41	0.68	47.07	170.36
9.42	0.67	47.01	170.08
9.43	0.67	46.72	170.08
9.44	0.66	46.53	170.81
9.45	0.66	45.63	173.09
9.46	0.66	44.77	175.64
9.47	0.67	44.33	178.01
9.48	0.69	43.62	182.11
9.49	0.69	43.62	182.11
9.5	0.71	43.02	186.75
9.51	0.72	42.19	188.03
9.52	0.73	41.45	187.76
9.53	0.75	40.43	189.03
9.54	0.76	39.89	188.49

9.55	0.78	39.48	188.3
9.56	0.79	39.16	188.12
9.57	0.8	38.52	187.67
9.58	0.83	37.62	188.94
9.59	0.84	37.85	189.21
9.6	0.86	38.36	189.21
9.61	0.87	39.83	188.85
9.62	0.88	40.66	188.76
9.63	0.89	41.58	188.58
9.64	0.9	42.63	189.21
9.65	0.91	43.66	189.12
9.66	0.95	44.71	187.85
9.67	0.96	45.22	187.3
9.68	0.98	45.86	186.75
9.69	0.99	46.69	185.75
9.7	0.98	47.33	184.29
9.71	0.95	49.37	187.94
9.72	0.93	50.42	190.22
9.73	0.91	51.54	190.76
9.74	0.9	51.67	188.85
9.75	0.9	52.11	188.21
9.76	0.9	52.34	187.3
9.77	0.9	52.62	186.03
9.78	0.9	53.17	185.11
9.79	0.86	55.97	186.57
9.8	0.82	57.7	188.49
9.81	0.8	58.5	189.76
9.82	0.78	59.01	190.22
9.83	0.78	59.01	190.22
9.84	0.79	56.74	191.13
9.85	0.79	56.74	191.13
9.86	0.82	55.02	191.86
9.87	0.87	53.52	193.77
9.88	0.89	52.18	194.41
9.89	0.92	50.49	195.59
9.9	0.94	49.08	197.41
9.91	0.97	46.15	202.61
9.92	0.98	44.45	202.79
9.93	1.01	42.32	202.97
9.94	1.05	40.94	203.33
9.95	1.13	39.51	207.98
9.96	1.16	39.6	208.53
9.97	1.18	40.02	211.62
9.98	1.2	41.07	211.17
9.99	1.27	41.45	214.18
10	1.31	42.19	212.72
10.01	1.34	43.56	212.72

10.02	1.38	46.15	212.26
10.03	1.42	48.41	212.44
10.04	1.46	53.36	221.19
10.05	1.47	56.01	222.37
10.06	1.5	58.56	221.74
10.07	1.5	58.56	221.74
10.08	1.5	58.56	221.74
10.09	1.55	70.94	224.38
10.1	1.55	74.58	218.73
10.11	1.52	78.41	224.2
10.12	1.5	83.16	225.2
10.13	1.47	86.8	224.47
10.14	1.48	86.96	223.92
10.15	1.52	86.26	224.2
10.16	1.53	86.83	222.65
10.17	1.55	88.08	225.38
10.18	1.56	90.5	226.93
10.19	1.59	91.17	228.02
10.2	1.65	91.05	228.75
10.21	1.65	91.05	228.75
10.22	1.72	90.38	222.19
10.23	1.71	91.59	220.01
10.24	1.69	96.18	219.46
10.25	1.67	99.98	218.91
10.26	1.68	100.91	217.91
10.27	1.69	101.8	215.45
10.28	1.69	104.64	212.63
10.29	1.69	107.93	207.07
10.3	1.71	110.93	205.98
10.31	1.72	112.91	205.34
10.32	1.74	115.39	206.25
10.33	1.78	121.11	208.25
10.34	1.78	121.11	208.25
10.35	1.83	125.48	221.28
10.36	1.86	126.05	223.92
10.37	1.95	124.52	219.91
10.38	1.98	124.97	218.46
10.39	2.01	125.73	219
10.4	2.08	129.95	215.54
10.41	2.08	129.95	215.54
10.42	2.1	133.52	212.81
10.43	2.1	136.58	212.17
10.44	2.09	139.97	210.71
10.45	2.13	142.23	210.26
10.46	2.15	143.86	209.71
10.47	2.18	149.29	210.44
10.48	2.2	152.51	210.35

10.49	2.23	155.99	208.89
10.5	2.24	159.85	207.25
10.51	2.28	165.82	208.53
10.52	2.2	169.26	207.62
10.53	2.2	170.73	207.89
10.54	2.18	167.41	207.62
10.55	2.17	164.6	207.43
10.56	2.29	162.27	213.08
10.57	2.41	160.49	215.18
10.58	2.5	158.99	215.36
10.59	2.51	159.78	216.91
10.6	2.52	161.48	217.27
10.61	2.52	161.48	217.27
10.62	2.54	165.37	214.99
10.63	2.5	161.41	214.18
10.64	2.45	162.85	212.99
10.65	2.39	161.99	213.54
10.66	2.27	166.61	216.63
10.67	2.34	169.29	219.28
10.68	2.32	169.58	218.09
10.69	2.32	170.38	219.19
10.7	2.39	172.55	231.48
10.71	2.41	172.29	233.21
10.72	2.42	172.58	237.68
10.73	2.43	171.24	240.41
10.74	2.43	168.97	241.23
10.75	2.43	164.86	240.41
10.76	2.44	161.16	239.5
10.77	2.51	156.02	235.31
10.78	2.56	155.16	235.77
10.79	2.61	155.03	237.95
10.8	2.66	156.98	240.5
10.81	2.66	156.98	240.5
10.82	2.75	161.92	282.59
10.83	2.78	161.54	280.22
10.84	2.81	160.23	275.39
10.85	2.82	159.31	267.65
10.86	2.74	164.16	275.49
10.87	2.74	164.16	275.49
10.88	2.58	171.21	282.86
10.89	2.52	168.72	281.95
10.9	2.51	167.44	281.59
10.91	2.5	163.93	278.31
10.92	2.48	155.22	269.29
10.93	2.48	154.33	267.65
10.94	2.49	157.2	265.28
10.95	2.52	157.07	266.28

10.96	2.55	161.89	272.48
10.97	2.62	160.2	279.77
10.98	2.67	158.32	293.52
10.99	2.75	152	296.44
11	2.81	145.81	293.16
11.01	2.87	140.41	289.51
11.02	2.92	138.75	288.79
11.03	2.95	145.23	286.05
11.04	2.92	150.98	285.87
11.05	2.87	157.84	287.24
11.06	2.87	157.84	287.24
11.07	2.87	157.84	287.24
11.08	2.75	158.7	333.06
11.09	2.69	163.07	327.23
11.1	2.66	166.2	321.85
11.11	2.66	173.92	316.94
11.12	2.68	174.59	318.85
11.13	2.67	177.24	328.23
11.14	2.65	178.07	326.5
11.15	2.63	176.16	323.4
11.16	2.59	169.8	321.58
11.17	2.58	166.2	317.85
11.18	2.56	161.57	314.48
11.19	2.57	149.92	309.83
11.2	2.57	147.27	308.1
11.21	2.56	145.55	306.19
11.22	2.56	145.55	306.19
11.23	2.6	144.31	304.73
11.24	2.7	145.93	306.46
11.25	2.76	147.59	307.19
11.26	2.85	149.41	306.46
11.27	2.86	150.05	306.37
11.28	2.85	151.84	305.18
11.29	2.83	153.91	303.91
11.3	2.85	158.12	303.91
11.31	2.9	160.65	303.91
11.32	2.92	164.57	303.73
11.33	2.91	176.67	303.82
11.34	2.9	182.89	304.27
11.35	2.92	185.89	304.73
11.36	2.94	188.28	304.64
11.37	2.92	193.2	303.82
11.38	2.88	194.41	304.55
11.39	2.84	194.7	304.82
11.4	2.81	192.21	304.18
11.41	2.81	192.21	304.18
11.42	2.73	191.31	304.45

11.43	2.68	190.8	305.37
11.44	2.57	184.64	307.28
11.45	2.56	180.21	306.73
11.46	2.57	172.49	307.83
11.47	2.49	163.71	317.48
11.48	2.49	163.71	317.48
11.49	2.36	155.28	330.24
11.5	2.37	145.49	329.32
11.51	2.36	135.47	322.22
11.52	2.18	125.29	304.45
11.53	2.11	121.94	296.53
11.54	2.08	119.38	295.8
11.55	2.07	116.51	298.72
11.56	2.04	112.36	312.38
11.57	2	112.11	321.49
11.58	1.95	110.1	328.69
11.59	1.96	107.32	332.97
11.6	1.98	104.58	339.35
11.61	1.98	104.58	339.35
11.62	2.02	99.66	344.54
11.63	2.08	95.29	348.46
11.64	2.11	94.17	352.28
11.65	2.16	89.13	363.76
11.66	2.16	87.41	364.4
11.67	2.18	83.96	360.94
11.68	2.18	81.06	357.38
11.69	2.11	78.22	349.55
11.7	2.09	77	346.18
11.71	2.07	76.46	344.17
11.72	1.99	77.83	344.63
11.73	1.97	76.91	344.17
11.74	1.97	75.19	343.26
11.75	1.94	74.83	342.44
11.76	1.88	75.38	340.26
11.77	1.84	75.86	339.71
11.78	1.8	76.97	339.71
11.79	1.76	73.43	342.08
11.8	1.76	73.43	342.08
11.81	1.76	65.64	343.35
11.82	1.76	63.92	344.9
11.83	1.75	63.41	349.46
11.84	1.74	63.57	351.64
11.85	1.74	63.28	354.92
11.86	1.74	60.86	354.65
11.87	1.73	59.29	353.56
11.88	1.72	57.98	354.47
11.89	1.71	58.14	357.47

11.9	1.66	58.69	363.21
11.91	1.63	57.57	364.49
11.92	1.6	56.13	363.94
11.93	1.59	54.67	366.49
11.94	1.57	51.44	365.04
11.95	1.57	50.01	362.3
11.96	1.57	48.76	360.57
11.97	1.54	47.45	358.57
11.98	1.51	47.07	358.48
11.99	1.51	45.76	359.66
12	1.51	45.76	359.66
12.01	1.55	44.68	363.58
12.02	1.55	44.8	366.13
12.03	1.56	44.23	367.31
12.04	1.6	43.88	370.23
12.05	1.62	44.65	373.6
12.06	1.62	44.65	373.6
12.07	1.62	44.65	373.6
12.08	1.83	44.55	400.47
12.09	1.93	47.84	408.76
12.1	1.99	49.53	422.7
12.11	2.06	50.49	441.83
12.12	2.14	51.95	436.73
12.13	2.27	57.35	426.89
12.14	2.35	60.82	420.61
12.15	2.4	64.37	415.23
12.16	2.45	76.4	409.67
12.17	2.47	81.98	407.58
12.18	2.46	88.17	406.94
12.19	2.46	95.48	407.67
12.2	2.49	108.15	415.78
12.21	2.51	112.43	413.14
12.22	2.54	114.95	407.31
12.23	2.58	125.54	401.38
12.24	2.58	125.54	401.38
12.25	2.58	136.71	397.83
12.26	2.59	140.99	395.83
12.27	2.57	148.74	394.28
12.28	2.57	152.67	394.73
12.29	2.57	155.57	393.19
12.3	2.57	158.38	392.37
12.31	2.53	161.09	392.09
12.32	2.54	162.27	392
12.33	2.58	163.07	391.82
12.34	2.66	166.93	391.45
12.35	2.68	169.8	392.37
12.36	2.75	174.11	394.73

12.37	2.75	174.11	394.73
12.38	2.71	175.01	394.37
12.39	2.67	174.11	392.91
12.4	2.64	171.82	390.18
12.41	2.59	169.71	388.36
12.42	2.51	169.39	388.54
12.43	2.44	168.62	391.27
12.44	2.34	162.82	395.1
12.45	2.29	159.66	397.01
12.46	2.25	157.14	401.84
12.47	2.18	147.94	412.23
12.48	2.18	141.31	414.23
12.49	2.25	125.29	414.32
12.5	2.25	125.29	414.32
12.51	2.39	113.03	417.42
12.52	2.46	108.66	417.78
12.53	2.56	102.44	415.78
12.54	2.58	101.26	416.6
12.55	2.62	99.15	418.24
12.56	2.7	98.51	420.97
12.57	2.95	98.42	427.71
12.58	3.09	99.89	430.81
12.59	3.23	102.15	438.28
12.6	3.21	105.66	431.54
12.61	3.11	104.42	428.9
12.62	3.01	107.03	424.34
12.63	3.01	107.03	424.34
12.64	2.78	113.32	420.88
12.65	2.68	115.3	420.24
12.66	2.57	118.46	415.6
12.67	2.5	118.75	412.5
12.68	2.4	119.86	413.68
12.69	2.4	119.86	413.68
12.7	2.29	124.52	417.69
12.71	2.29	124.39	419.06
12.72	2.3	125.13	421.61
12.73	2.35	131.51	426.89
12.74	2.44	134.25	432.63
12.75	2.57	134.61	437.64
12.76	2.73	135.37	442.65
12.77	3.06	134	454.86
12.78	3.25	131.7	457.32
12.79	3.62	123.66	459.6
12.8	3.76	120.72	458.6
12.81	3.94	118.97	459.69
12.82	4.15	116.54	458.6
12.83	4.12	113.42	449.94

12.84	4.02	112.75	446.39
12.85	3.96	114.63	444.2
12.86	4.08	121.65	452.4
12.87	4.36	126.24	464.7
12.88	4.36	126.24	464.7
12.89	5.19	140.38	502.23
12.9	6.77	138.79	525.37
12.91	7.73	140.13	526.1
12.92	9.09	141.47	477.91
12.93	9.43	141.28	325.23
12.94	9.68	142.3	293.16
12.95	9.9	141.02	239.68
12.96	10.13	139.17	199.78
12.97	10.16	139.33	190.12
12.98	10.18	135.98	156.24
12.99	10.19	131.29	153.23
13	9.89	112.36	147.76
13.01	10.2	111.76	148.49
13.02	10.24	107	143.48
13.03	10.2	103.08	136.01
13.04	10.15	97.72	120.98
13.05	10.11	98.1	113.78
13.06	10.11	98.1	113.78
13.07	10.11	98.1	113.78
13.08	9.49	79.11	104.58
13.09	9.43	80.26	97.57
13.1	9.35	80.8	92.47
13.11	9.24	81.25	85
13.12	9.1	86.51	66.78
13.13	9.13	88.97	58.67
13.14	9.12	93.25	47.01
13.15	8.97	96.98	41.36
13.16	8.82	100.36	33.43
13.17	8.82	100.36	33.43
13.18	8.13	111.6	23.78
13.19	8.03	113.06	23.05
13.2	7.94	115.33	22.96
13.21	7.8	120.18	23.14
13.22	7.76	122.42	22.77
13.23	7.76	122.42	22.77
13.24	7.31	112.65	17.22
13.25	7.03	111.69	15.12
13.26	6.7	113.45	12.85
13.27	5.8	118.39	8.38
13.28	5.28	119.64	7.11
13.29	4.83	120.85	6.56
13.3	4.4	124.49	8.56

13.31	3.54	118.87	60.13
13.32	3.33	116.06	55.84
13.33	3.12	117.53	55.57
13.34	2.63	126.24	50.56
13.35	2.47	129.56	54.3
13.36	2.37	133.94	54.39
13.37	2.28	133.36	54.48
13.38	2.24	127.49	54.57
13.39	2.22	123.69	54.48
13.4	2.18	116.1	54.2
13.41	2.17	112.39	54.48
13.42	2.17	112.39	54.48
13.43	2.13	114.34	55.48
13.44	1.98	111.15	57.39
13.45	1.92	108.76	58.94
13.46	1.86	108.63	60.76
13.47	1.8	102.12	64.41
13.48	1.78	94.84	66.5
13.49	1.74	88.11	68.78
13.5	1.71	82.14	70.78
13.51	1.67	74.55	74.52
13.52	1.67	71.36	76.25
13.53	1.68	68.52	77.98
13.54	1.75	64.94	81.53
13.55	1.8	63.38	83.54
13.56	1.85	62.32	85.18
13.57	1.94	59.77	89.1
13.58	1.94	57.79	91.28
13.59	1.92	58.14	95.56
13.6	1.86	59.1	105.13
13.61	1.86	59.1	105.13
13.62	1.82	58.53	109.77
13.63	1.81	56.64	111.05
13.64	1.75	55.81	113.6
13.65	1.72	55.69	116.7
13.66	1.69	55.81	117.34
13.67	1.6	56.64	116.61
13.68	1.57	58.24	117.15
13.69	1.57	59.04	117.97
13.7	1.57	59.23	120.43
13.71	1.63	59.1	123.08
13.72	1.68	58.08	124.62
13.73	1.8	55.53	132.46
13.74	1.8	55.53	132.46
13.75	1.91	55.78	133.64
13.76	1.97	56.74	133.83
13.77	2.08	61.81	134.74

13.78	2.13	65.26	135.47
13.79	2.19	67.02	135.1
13.8	2.27	67.27	133.55
13.81	2.34	64.78	130.36
13.82	2.26	63.54	127.72
13.83	2.15	64.08	124.81
13.84	1.97	66.82	120.34
13.85	1.89	66.54	118.98
13.86	1.83	66.63	118.43
13.87	1.78	65.96	117.7
13.88	1.71	65.52	117.79
13.89	1.71	62.87	117.88
13.9	1.72	61.18	118.07
13.91	1.78	63.35	133.37
13.92	1.81	63.66	139.38
13.93	1.86	60.44	147.4
13.94	1.91	58.75	150.41
13.95	1.96	60.54	151.95
13.96	1.95	62.29	151.41
13.97	1.92	63.44	149.59
13.98	1.88	63.28	147.85
13.99	1.84	64.14	146.58
14	1.84	64.14	146.58
14.01	1.77	64.53	143.48
14.02	1.71	65.1	140.48
14.03	1.69	66.41	139.75
14.04	1.68	67.97	139.66
14.05	1.68	67.56	140.02
14.06	1.68	67.56	140.02
14.07	1.68	67.56	140.02
14.08	1.72	63.47	184.93
14.09	1.72	63.95	186.75
14.1	1.79	62.55	190.76
14.11	1.83	61.59	192.31
14.12	1.89	60.31	192.49
14.13	1.93	57.76	190.85
14.14	2.02	54.92	187.21
14.15	2.06	54.79	184.93
14.16	2.09	55.53	182.47
14.17	2.16	61.02	178.01
14.18	2.15	64.43	176.46
14.19	2.15	64.43	176.46
14.2	2.09	69.28	172.27
14.21	1.96	75.25	169.54
14.22	1.85	76.08	167.81
14.23	1.79	76.72	165.98
14.24	1.64	77.8	163.61

14.25	1.64	77.8	163.61
14.26	1.53	77.51	162.43
14.27	1.46	73.59	162.25
14.28	1.43	70.43	162.52
14.29	1.41	67.14	163.07
14.3	1.39	59.99	164.43
14.31	1.38	57.86	165.07
14.32	1.35	55.53	165.89
14.33	1.31	49.62	167.44
14.34	1.3	47.29	168.81
14.35	1.29	44.71	170.27
14.36	1.3	40.5	174.09
14.37	1.29	39.38	175.91
14.38	1.28	38.07	177.83
14.39	1.27	36.99	178.74
14.4	1.23	35.39	179.1
14.41	1.22	34.18	179.01
14.42	1.21	33.22	178.56
14.43	1.18	32.26	177.55
14.44	1.18	32.26	177.55
14.45	1.17	32.14	176.92
14.46	1.16	32.68	177.28
14.47	1.15	33.28	177.74
14.48	1.15	33.64	178.1
14.49	1.15	34.82	178.46
14.5	1.14	35.01	178.46
14.51	1.14	35.29	178.65
14.52	1.14	35.55	179.1
14.53	1.16	35.04	180.56
14.54	1.17	34.43	181.01
14.55	1.21	34.53	182.02
14.56	1.22	34.75	182.29
14.57	1.23	34.66	182.93
14.58	1.24	34.75	183.47
14.59	1.26	34.27	184.11
14.6	1.27	34.59	184.2
14.61	1.29	34.59	184.29
14.62	1.32	34.66	184.48
14.63	1.32	34.66	184.48
14.64	1.36	35.29	184.48
14.65	1.39	35.55	184.66
14.66	1.42	34.82	184.57
14.67	1.43	34.88	184.2
14.68	1.43	35.93	183.47
14.69	1.42	36.6	183.29
14.7	1.42	36.95	182.93
14.71	1.42	37.21	182.47

14.72	1.41	37.91	181.74
14.73	1.41	38.07	181.56
14.74	1.39	37.85	181.2
14.75	1.38	37.75	180.74
14.76	1.37	38.17	180.47
14.77	1.35	38.45	180.01
14.78	1.3	38.74	178.92
14.79	1.26	38.74	178.56
14.8	1.22	38.42	178.19
14.81	1.16	37.31	177.64
14.82	1.16	37.31	177.64
14.83	1.09	35.61	177.19
14.84	1.04	33	177.01
14.85	1.03	31.75	177.1
14.86	1.01	30.76	177.46
14.87	1	29.04	177.92
14.88	1	29.04	177.92
14.89	0.98	27.92	178.46
14.9	0.98	27.28	178.92
14.91	0.96	25.63	179.74
14.92	0.95	25.11	180.1
14.93	0.93	24.03	180.83
14.94	0.93	23.39	181.2
14.95	0.92	22.75	181.47
14.96	0.92	22.43	181.56
14.97	0.89	22.88	182.02
14.98	0.89	22.66	182.29
14.99	0.88	22.34	182.75
15	0.86	21.64	183.66
15.01	0.87	20.71	184.39
15.02	0.87	20.1	185.57
15.03	0.87	19.37	187.94
15.04	0.88	19.21	189.76
15.05	0.88	19.21	189.76
15.06	0.88	19.21	189.76
15.07	0.91	14.87	258.27
15.08	0.91	17.2	261.73
15.09	0.91	17.49	264.46
15.1	0.92	17.9	263.82
15.11	0.92	18.35	262.09
15.12	0.92	18.76	261.46
15.13	0.92	19.43	261.09
15.14	0.92	20.14	261.36
15.15	0.94	21.44	261.27
15.16	0.94	22.21	260.64
15.17	0.94	22.21	260.64
15.18	0.92	23.97	262.55

15.19	0.94	24.57	260.27
15.2	0.95	24.67	259.45
15.21	0.96	24.48	258.9
15.22	0.99	24.44	260.91
15.23	1.01	24.7	264.01
15.24	1.02	25.18	264.37
15.25	1.02	26.2	263.73
15.26	1.03	27.64	264.64
15.27	1.05	27.96	266.38
15.28	1.08	29.45	267.83
15.29	1.09	30.51	267.56
15.3	1.11	31.15	267.65
15.31	1.12	32.17	267.74
15.32	1.13	33.38	268.47
15.33	1.15	35.45	267.38
15.34	1.15	36.09	267.74
15.35	1.17	38.71	268.93
15.36	1.17	38.71	268.93
15.37	1.21	40.24	270.47
15.38	1.22	41.36	270.93
15.39	1.24	42.51	271.66
15.4	1.26	45.16	273.48
15.41	1.27	46.53	273.85
15.42	1.31	48.12	274.12
15.43	1.31	48.12	274.12
15.44	1.34	48.44	274.3
15.45	1.37	48.73	274.3
15.46	1.46	48.54	270.38
15.47	1.46	49.27	271.75
15.48	1.46	50.49	272.3
15.49	1.46	52.24	273.3
15.5	1.48	55.72	275.21
15.51	1.49	58.21	275.67
15.52	1.5	59.2	274.57
15.53	1.54	64.02	276.49
15.54	1.5	65.64	269.47
15.55	1.51	67.05	275.94
15.56	1.51	67.05	275.94
15.57	1.53	73.75	276.31
15.58	1.49	75.41	275.58
15.59	1.5	76.43	275.21
15.6	1.6	80.1	277.85
15.61	1.58	81.92	277.4
15.62	1.54	85.78	277.31
15.63	1.52	87.57	277.12
15.64	1.48	92.26	278.13
15.65	1.47	92.99	278.95

15.66	1.51	93.66	281.22
15.67	1.46	94.05	281.32
15.68	1.47	95.26	280.77
15.69	1.47	95.39	280.31
15.7	1.47	95.42	279.04
15.71	1.46	96.57	279.4
15.72	1.45	97.33	279.31
15.73	1.46	97.3	279.68
15.74	1.47	97.33	278.67
15.75	1.47	97.33	278.67
15.76	1.43	95.7	278.67
15.77	1.43	94.33	280.13
15.78	1.43	93.5	280.31
15.79	1.42	92.32	280.4
15.8	1.41	91.08	280.5
15.81	1.42	91.33	280.5
15.82	1.41	91.11	280.4
15.83	1.39	90.82	280.31
15.84	1.36	90.57	279.95
15.85	1.36	89.83	280.13
15.86	1.39	84.38	281.04
15.87	1.4	83	280.95
15.88	1.41	81.41	278.86
15.89	1.41	79.88	280.31
15.9	1.42	77.07	285.6
15.91	1.48	75.82	288.42
15.92	1.45	74.74	289.24
15.93	1.43	72.79	290.7
15.94	1.43	72.79	290.7
15.95	1.48	70.69	289.97
15.96	1.57	69.31	286.05
15.97	1.58	67.85	235.13
15.98	1.64	67.62	208.25
15.99	1.63	68	225.2
16	1.63	68	225.2
16.01	1.59	69.47	233.21
16.02	1.61	71.96	236.77
16.03	1.59	73.97	239.68
16.04	1.57	76.21	243.42
16.05	1.57	76.21	243.42
16.06	1.57	76.21	243.42
16.07	1.5	80.71	258.18
16.08	1.47	82.68	259.09
16.09	1.46	83.16	257.72
16.1	1.45	84.02	256.81
16.11	1.45	84.47	256.35
16.12	1.43	84.73	255.53

16.13	1.45	85.3	254.99
16.14	1.43	85.43	254.53
16.15	1.44	86.23	254.81
16.16	1.45	85.75	257.99
16.17	1.44	83.51	263.46
16.18	1.44	83.51	263.46
16.19	1.4	83.26	263.55
16.2	1.38	81.82	266.1
16.21	1.37	79.05	271.75
16.22	1.37	77.26	274.57
16.23	1.37	75.89	277.03
16.24	1.38	73.59	279.58
16.25	1.4	72.09	286.14
16.26	1.59	71.52	287.69
16.27	1.56	70.97	292.79
16.28	1.65	66.98	406.03
16.29	1.74	65.26	398.2
16.3	1.88	60.63	369.5
16.31	1.88	60.63	369.5
16.32	1.98	57.6	357.47
16.33	1.98	57.09	352.28
16.34	1.92	57.38	342.81
16.35	1.87	58.02	341.44
16.36	1.89	57.7	342.81
16.37	1.89	58.24	341.99
16.38	1.91	59.2	339.35
16.39	1.93	60.44	334.34
16.4	1.92	61.46	329.23
16.41	1.77	69.19	326.96
16.42	1.79	71.61	328.14
16.43	1.77	73.08	325.59
16.44	1.76	81.28	329.14
16.45	1.69	83.61	327.87
16.46	1.65	87.25	329.42
16.47	1.59	89.96	331.51
16.48	1.59	87.66	332.24
16.49	1.62	85.52	332.15
16.5	1.59	82.84	331.24
16.51	1.63	77.87	331.24
16.52	1.66	76.37	331.6
16.53	1.69	74.07	331.33
16.54	1.71	71.99	331.15
16.55	1.73	70.94	330.51
16.56	1.75	69.95	329.87
16.57	1.79	69.7	329.23
16.58	1.79	69.06	328.69
16.59	1.78	70.78	330.05

16.6	1.77	74.64	331.6
16.61	1.76	76.65	333.33
16.62	1.77	78.66	333.33
16.63	1.77	78.98	332.97
16.64	1.8	82.08	336.61
16.65	1.82	83.29	340.89
16.66	1.88	85.27	342.17
16.67	1.89	86.86	343.81
16.68	1.9	87.76	344.27
16.69	1.93	87.89	343.9
16.7	1.97	87.92	345.72
16.71	1.97	87.92	345.72
16.72	1.99	86.86	344.72
16.73	1.99	87.06	343.99
16.74	2.06	88.36	345.27
16.75	2.15	89.39	348.09
16.76	1.98	86.99	346.45
16.77	1.97	87.95	349.73
16.78	1.96	88.27	350.64
16.79	1.96	90.92	352.1
16.8	1.96	91.27	352.65
16.81	2.01	89.51	352.28
16.82	2.07	88.46	352.01
16.83	2.07	88.01	351.01
16.84	2.07	88.01	351.01
16.85	2.03	90.25	348.27
16.86	2	91.75	347.82
16.87	1.96	91.97	347.27
16.88	1.93	91.05	347.09
16.89	1.88	89.71	347.45
16.9	1.88	89.71	347.45
16.91	1.85	84.6	349.09
16.92	1.85	80.64	349.37
16.93	1.83	78.47	349.64
16.94	1.81	75.89	350.19
16.95	1.8	71.13	350.46
16.96	1.8	68.29	350.46
16.97	1.81	65.99	350.28
16.98	1.84	63.63	350.1
16.99	1.83	63.47	349.91
17	1.82	62.16	350.19
17.01	1.82	60.7	350.55
17.02	1.83	59.13	351.1
17.03	1.83	59.13	351.1
17.04	1.79	58.08	349.91
17.05	1.79	58.08	349.91
17.06	1.79	58.08	349.91

17.07	2	42.48	377.7
17.08	1.82	52.24	361.12
17.09	1.73	52.62	358.2
17.1	1.6	50.68	354.38
17.11	1.6	50.68	354.38
17.12	1.52	50.13	351.64
17.13	1.48	50.07	351.01
17.14	1.41	41.39	350.46
17.15	1.42	38.23	351.28
17.16	1.45	37.05	352.37
17.17	1.46	35.36	354.2
17.18	1.54	34.4	359.57
17.19	1.56	32.61	361.48
17.2	1.61	32.07	362.85
17.21	1.69	32.55	363.58
17.22	1.71	31.53	363.58
17.23	1.77	31.4	363.12
17.24	1.77	31.4	363.12
17.25	1.78	29.81	361.57
17.26	1.78	29.81	361.57
17.27	1.73	29.23	360.3
17.28	1.71	28.11	358.66
17.29	1.68	28.47	357.66
17.3	1.67	29.61	357.29
17.31	1.67	30.13	357.02
17.32	1.65	27.57	356.47
17.33	1.62	26.01	355.47
17.34	1.57	26.04	353.28
17.35	1.55	25.63	352.01
17.36	1.51	25.79	351.46
17.37	1.49	26.55	351.74
17.38	1.45	24.22	353.47
17.39	1.48	24.73	354.47
17.4	1.52	26.26	355.38
17.41	1.56	27.67	354.2
17.42	1.52	28.34	352.65
17.43	1.48	28.24	350.82
17.44	1.36	25.05	348.55
17.45	1.36	25.05	348.55
17.46	1.31	25.47	347.54
17.47	1.28	23.04	349.18
17.48	1.26	21.38	351.64
17.49	1.29	19.21	354.56
17.5	1.34	18.96	357.29
17.51	1.45	19.31	361.39
17.52	1.5	20.33	362.85
17.53	1.55	22.34	364.49

17.54	1.58	22.88	365.76
17.55	1.62	22.72	367.04
17.56	1.71	23.81	367.5
17.57	1.8	26.97	365.31
17.58	1.76	28.91	363.21
17.59	1.73	31.53	361.03
17.6	1.64	33.16	356.38
17.61	1.59	33.32	354.65
17.62	1.54	33.09	354.38
17.63	1.52	33.19	355.56
17.64	1.56	34.5	362.58
17.65	1.63	35.74	367.77
17.66	1.81	38.71	376.15
17.67	1.92	39.95	379.7
17.68	2.06	40.98	382.44
17.69	2.21	43.4	384.44
17.7	2.41	48.76	385.08
17.71	2.44	50.9	385.17
17.72	2.48	51.63	387.72
17.73	2.58	52.11	391.27
17.74	2.77	53.52	396.37
17.75	3.03	56.68	402.48
17.76	3.64	61.21	416.51
17.77	4.01	65.1	423.89
17.78	4.43	69.15	428.44
17.79	5.22	83.29	385.44
17.8	5.39	92.35	346.36
17.81	5.44	98.45	298.17
17.82	5.34	108.18	213.63
17.83	5.34	108.18	213.63
17.84	5.22	107.61	177.92
17.85	5.1	102.5	180.65
17.86	5.07	95.26	177.64
17.87	5.01	86.51	179.92
17.88	4.89	67.75	181.47
17.89	4.8	58.72	172.45
17.9	4.72	50.68	147.67
17.91	4.54	38.55	80.53
17.92	4.45	34.78	71.6
17.93	4.37	34.43	66.68
17.94	4.37	34.43	66.68
17.95	4.12	43.88	50.92
17.96	4.1	49.46	46.55
17.97	4.12	62.99	41.09
17.98	4.19	70.11	39.99
17.99	4.27	77.2	38.99
18	4.35	82.75	37.72

18.01	4.47	92.55	34.8
18.02	4.47	92.55	34.8
18.03	4.76	101.19	31.25
18.04	4.86	104.42	29.88
18.05	4.86	104.42	29.88
18.06	4.86	104.42	29.88
18.07	5.41	53.23	66.41
18.08	5.68	56.68	50.1
18.09	5.8	57.7	43.18
18.1	6.02	61.43	29.06
18.11	6.16	63.38	24.05
18.12	6.32	66.19	20.04
18.13	6.45	69.25	15.94
18.14	6.63	74.58	7.2
18.15	6.63	74.58	7.2
18.16	6.82	76.88	3.1
18.17	6.98	77.04	1
18.18	7.07	75.38	0.91
18.19	7.14	74.32	1.37
18.2	7.22	66.66	4.01
18.21	7.24	61.05	41.36
18.22	7.26	55.62	40.72
18.23	7.18	43.66	38.17
18.24	7.17	37.78	36.26
18.25	7.18	33.86	34.16
18.26	7.2	28.34	34.89
18.27	7.21	27.32	33.62
18.28	7.24	26.71	31.43
18.29	7.25	26.71	31.16
18.3	7.27	27.09	29.43
18.31	7.37	30.54	24.96
18.32	7.43	31.5	26.97
18.33	7.51	33.54	26.24
18.34	7.51	33.54	26.24
18.35	7.64	32.61	22.32
18.36	7.6	33.19	24.41
18.37	7.46	31.37	22.14
18.38	7.46	31.37	22.14
18.39	7.28	29.58	19.59
18.4	7.24	29.68	18.95
18.41	7.17	28.91	18.31
18.42	7.11	27.89	17.86
18.43	7.11	28.66	17.4
18.44	7.11	28.59	20.13
18.45	7.14	25.37	19.77
18.46	7.18	24.09	19.77
18.47	7.25	24.09	19.59

18.48	7.32	23.62	19.4
18.49	7.44	21.32	19.59
18.5	7.57	20.74	19.59
18.51	7.55	22.66	19.59
18.52	7.38	22.12	19.31
18.53	6.59	23.71	18.4
18.54	6.08	23.33	17.95
18.55	5.6	23.52	17.58
18.56	4.73	21.35	17.04
18.57	4.49	20.77	16.94
18.58	4.39	21.29	16.76
18.59	4.26	24.32	16.76
18.6	4.05	29.65	17.49
18.61	4.02	33.64	17.86
18.62	4.17	42.89	18.31
18.63	4.17	42.89	18.31
18.64	4.32	47.87	18.77
18.65	4.39	49.5	18.95
18.66	4.52	47.04	19.31
18.67	4.57	46.08	19.4
18.68	4.61	45.09	19.59
18.69	4.65	40.21	19.86
18.7	4.69	37.5	19.95
18.71	4.71	34.85	20.04
18.72	4.78	30.06	20.22
18.73	4.81	27.54	20.41
18.74	4.87	23.62	20.5
18.75	5.02	18.35	20.86
18.76	5.12	16.88	20.95
18.77	5.2	16.43	21.14
18.78	5.29	15.92	21.32
18.79	5.51	16.05	21.68
18.8	5.66	16.18	21.86
18.81	5.93	17.55	22.14
18.82	5.93	17.55	22.14
18.83	6.21	19.85	22.5
18.84	6.35	21.03	22.68
18.85	6.58	22.24	22.96
18.86	6.73	23.04	23.14
18.87	6.93	26.39	23.41
18.88	7.01	27.8	23.5
18.89	7.06	27.83	23.5
18.9	7.05	26.04	23.59
18.91	7.12	23.49	23.78
18.92	7.12	22.18	23.78
18.93	7.22	21.44	24.05
18.94	7.28	20.01	24.05

18.95	7.34	19.21	24.14
18.96	7.42	19.27	24.23
18.97	7.54	16.72	24.51
18.98	7.6	16.34	24.51
18.99	7.66	14.65	24.69
19	7.65	13.82	24.78
19.01	7.65	13.82	24.78
19.02	7.61	12.41	24.96
19.03	7.57	12.64	25.05
19.04	6.85	12.73	24.69
19.05	6.85	12.73	24.69
19.06	6.85	12.73	24.69
19.07	7.41	12.86	26.42
19.08	7.36	13.31	26.33
19.09	7.3	13.59	26.24
19.1	7.2	13.82	26.24
19.11	6.99	14.84	26.05
19.12	6.83	15.38	25.87
19.13	6.51	16.43	25.69
19.14	6.34	17.26	25.51
19.15	6.16	18.19	25.42
19.16	6	18.57	25.33
19.17	5.73	20.26	25.14
19.18	5.66	20.2	25.05
19.19	5.63	19.69	25.05
19.2	5.58	18.89	25.05
19.21	5.59	18.76	25.14
19.22	5.62	18.57	25.14
19.23	5.66	19.72	25.14
19.24	5.82	24.22	24.96
19.25	5.84	27.64	24.96
19.26	5.67	36.86	24.78
19.27	5.61	41.84	24.78
19.28	5.57	46.62	24.78
19.29	5.48	50.96	24.78
19.3	5.45	63.63	24.87
19.31	5.55	70.56	25.23
19.32	5.81	70.24	25.6
19.33	6.01	65.96	25.78
19.34	6.23	60.28	26.15
19.35	6.48	53.07	26.33
19.36	6.71	48.32	26.51
19.37	7.09	41.68	26.78
19.38	7.21	38.74	26.78
19.39	7.29	38.17	26.87
19.4	7.29	39.7	26.97
19.41	7.28	38.68	26.97

19.42	7.24	37.69	26.97
19.43	7.18	36.06	27.06
19.44	7.2	35.84	27.15
19.45	7.15	34.24	27.15
19.46	7.07	30.09	27.15
19.47	6.94	27.22	27.06
19.48	6.8	25.63	27.06
19.49	6.35	21.96	26.78
19.5	6.06	20.58	26.6
19.51	5.85	19.59	26.51
19.52	5.45	19.85	26.15
19.53	5.22	19.4	25.96
19.54	5.02	19.4	25.78
19.55	4.7	17.33	25.6
19.56	4.56	16.88	25.42
19.57	4.45	17.71	25.33
19.58	4.19	22.69	25.14
19.59	4.1	24.09	25.14
19.6	4.09	25.08	25.14
19.61	4.06	26.71	25.14
19.62	3.96	33.48	24.96
19.63	3.91	38.81	24.96
19.64	3.94	53.9	25.05
19.65	3.95	59.23	25.05
19.66	3.95	63.92	25.05
19.67	3.95	67.94	25.05
19.68	3.99	75.5	25.14
19.69	4.01	77.77	25.14
19.7	4.04	74.74	25.23
19.71	4.07	71.29	25.33
19.72	4.1	69.19	25.33
19.73	4.12	67.24	25.42
19.74	4.18	59.2	25.51
19.75	4.19	56.68	25.6
19.76	4.28	54.19	25.78
19.77	4.34	53.61	25.87
19.78	4.4	54.92	25.96
19.79	4.46	56.52	26.05
19.8	4.64	57.73	26.33
19.81	4.82	58.08	26.51
19.82	5.01	58.21	26.6
19.83	5.29	61.85	26.97
19.84	5.41	61.88	27.06
19.85	5.53	61.05	27.15
19.86	5.75	59.8	27.33
19.87	5.82	57.22	27.42
19.88	5.87	52.59	27.42

19.89	5.92	41.04	27.51
19.9	5.94	35.36	27.51
19.91	5.96	30.13	27.51
19.92	5.98	26.14	27.51
19.93	5.99	25.05	27.51
19.94	5.99	25.05	27.51
19.95	6.05	24.83	27.51
19.96	6.1	25.11	27.6
19.97	6.19	28.5	27.6
19.98	6.21	30.35	27.69
19.99	6.25	32.52	27.69
20	6.25	32.52	27.69
20.01	6.34	39.6	27.79
20.02	6.32	41.17	27.79
20.03	6.24	42.54	27.69
20.04	6.15	43.21	27.6

U2

Tilt

a Factor

10977	278275	0.8
31333	2003	

Tilt [°]	Speed [cm/sec]
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0.17	1.6
0.17	1.6
0.17	1.7
0.17	1.6
0.17	1.6
0.17	1.5
0.15	1.6
0.23	1.5
0.23	1.6
0.23	1.6
0.23	1.7
0.23	1.7
0.23	1.8
0.23	1.7

0.23	1.7
0.23	1.6
0.23	1.7
0.31	1.6
0.23	1.7
0.31	1.7
0.31	1.7
0.31	1.7
0.38	1.8
0.38	1.6
0.38	1.7
0.38	1.7
0.38	1.7
0.38	1.6
0.46	1.7
0.38	1.6
0.38	1.7
0.38	1.7
0.38	1.7
0.31	1.7
0.24	1.7
0.17	1.6
0.17	1.7
0.17	1.7
0.17	1.7
0.17	1.7
0.17	1.7
0.17	1.7
0.17	1.7
0.17	1.8
0.17	1.7
0.17	1.7
0.23	1.6
0.23	1.7
0.23	1.6
0.23	1.7
0.23	1.6
0.23	1.7
0.23	1.7
0.23	1.8
0.31	1.7
0.31	1.7
0.31	1.6
0.31	1.7
0.31	1.6
0.31	1.7
0.31	1.6
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0.31	1.8

0.31	1.7
0.31	1.8
0.31	1.7
0.31	1.7
0.38	1.7
0.31	1.7
0.38	1.6
0.38	1.7
0.38	1.6
0.38	1.7
0.38	1.7
0.39	1.8
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0.41	1.8
0.41	1.7
0.41	1.7
0.41	1.7
0.39	1.7
0.41	1.7
0.41	25

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0.23	1.9
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Company information:

Name: G.S.C. Indagini Geognostiche
Address: Via Carpi 21
Zip code: 42018
City: San Martino in Rio
P.IVA: 02322840204
E-Mail: gsc.inge@gmail.com
Phone number: +393334273452
Fax number:

Site information:

Name: Finale Emilia (MO) - Microzonazione
Date: 10/07/2020
Commissioner: Prof. Caputo Riccardo
Locality:

Test information:

Name: CPTU02
Location: CANALETTO
Date: 10/07/2020 11:39:27
Prehole mode:
Prehole depth [cm]: 0
Hydrostatic line [cm]: 360
Ground level [m]: 0
Latitude: 44.848148
Longitude: 11.24311
Operator:
Comments:
Probe code: MKJ608

	Qc	Fs	Speed	
Factors:	188220		31336	10
Zeros:	3953		7826	0

Depth [m]	Qc [MPa]	Fs [KPa]	U2 [KPa]
0.01	0.16	0	0.09
0.02	0.37	0.77	0.18
0.03	0.43	2.71	1
0.04	0.83	12.38	0.46
0.05	1.56	15.35	0.09
0.06	4.25	14.17	-0.09
0.07	5.99	14.11	-0.09
0.08	8.55	15.86	-0.18
0.09	9.31	20.74	-0.18
0.1	9.52	27.44	-0.36
0.11	9.68	33.35	-0.36
0.12	10.06	42.44	-1.09
0.13	10.06	48.28	-1.91
0.14	10	56.77	-2.28

0.15	9.8	73.75	-2.46
0.16	9.71	82.11	-2.46
0.17	9.53	88.05	-3.19
0.18	9.41	95.9	-4.1
0.19	9.16	110.96	-3.92
0.2	8.95	120.72	-2.82
0.21	8.95	120.72	-2.82
0.22	8.16	156.18	-1.55
0.23	8.25	163.77	-0.64
0.24	7.58	172.58	-1.09
0.25	7.35	188.54	-0.82
0.26	7.35	189.33	-0.55
0.27	7.26	190.74	-0.36
0.28	7.11	189.81	-0.27
0.29	7.06	187.64	-0.46
0.3	6.94	186.59	-0.36
0.31	6.71	190.55	-0.36
0.32	6.42	191.98	-0.46
0.33	6.27	196.71	-0.64
0.34	5.98	210.81	-0.73
0.35	5.88	213.56	-0.64
0.36	5.73	214.61	-0.82
0.37	5.49	223.29	-0.64
0.38	5.43	227.44	-0.91
0.39	5.37	234.97	-0.73
0.4	5.25	253.57	-0.46
0.41	5.21	260.15	-0.82
0.42	5.21	262.41	-0.91
0.43	5.19	262.54	-0.46
0.44	5.08	260.66	-2.82
0.45	5	259.89	-1.91
0.46	4.86	254.28	-1.91
0.47	4.81	248.95	-0.82
0.48	4.74	246.04	-0.91
0.49	4.61	244.99	-0.82
0.5	4.37	237.94	-0.64
0.51	4.31	232.29	-0.55
0.52	4.15	228.11	-1.18
0.53	4.05	231.43	-0.27
0.54	4.05	231.43	-0.27
0.55	3.82	236.95	-4.55
0.56	3.67	238.13	-5.01
0.57	3.61	239.41	-5.1
0.58	3.59	234.01	-0.27
0.59	3.55	232.67	-1
0.6	3.55	232.67	-1
0.61	3.41	234.94	-5.83

0.62	3.32	240.55	-23.5
0.63	3.3	238.16	-23.23
0.64	3.27	236.18	-24.05
0.65	3.24	240.97	-27.06
0.66	3.22	238.42	-29.43
0.67	3.24	235.64	-28.61
0.68	3.27	227.82	-23.14
0.69	3.28	226.16	-19.31
0.7	3.29	227.31	-14.67
0.71	3.32	227.76	-8.75
0.72	3.33	228.01	-7.01
0.73	3.36	229.35	-2.64
0.74	3.43	231.14	-2.73
0.75	3.45	231.65	-2.92
0.76	3.47	233.15	-3.37
0.77	3.52	235.35	-0.64
0.78	3.55	237.52	1.55
0.79	3.6	238.86	2
0.8	3.64	242.12	2
0.81	3.66	243.17	1.28
0.82	3.66	242.25	1.09
0.83	3.67	240.68	-0.18
0.84	3.7	238	-3.01
0.85	3.7	237.17	-3.64
0.86	3.69	240.84	0.09
0.87	3.69	242.25	0.82
0.88	3.69	243.94	-2.55
0.89	3.71	246.68	0
0.9	3.72	247.93	0.18
0.91	3.73	247.99	-0.73
0.92	3.68	248.56	-1.46
0.93	3.65	248.5	-5.56
0.94	3.61	247.96	-15.94
0.95	3.58	244.1	-11.66
0.96	3.49	237.43	-5.74
0.97	3.43	236.09	-1.55
0.98	3.36	234.87	0.82
0.99	3.3	233.95	1.09
1	3.3	228.81	-1.28
1.01	3.34	224.21	-3.46
1.02	3.36	219.75	-3.92
1.03	3.39	210.81	-3.46
1.04	3.4	207.05	-4.55
1.05	3.4	207.05	-4.55
1.06	3.4	207.05	-4.55
1.07	1.42	19.98	-0.09
1.08	3.07	211.16	-13.94

1.09	3.26	192.97	-19.95
1.1	3.26	192.97	-19.95
1.11	3.11	177.43	-14.85
1.12	3.08	176	-12.39
1.13	3.04	174.66	-9.11
1.14	2.93	171.56	-6.65
1.15	2.85	170.6	-1.46
1.16	2.79	171.59	5.01
1.17	2.73	173.99	10.93
1.18	2.69	180.27	15.12
1.19	2.66	183.02	14.58
1.2	2.63	185.31	13.48
1.21	2.58	192.53	13.57
1.22	2.56	195.37	13.85
1.23	2.53	197.98	14.03
1.24	2.49	198.62	14.03
1.25	2.37	197.66	15.58
1.26	2.33	195.02	16.4
1.27	2.31	193.83	17.22
1.28	2.26	188.44	20.04
1.29	2.25	184.29	19.31
1.3	2.22	180.43	19.5
1.31	2.18	176.6	19.59
1.32	2.09	167.79	17.4
1.33	2.06	162.56	17.76
1.34	2.03	158.67	18.68
1.35	2	155.16	19.13
1.36	1.92	150.15	18.77
1.37	1.9	148.55	20.77
1.38	1.88	146.67	24.05
1.39	1.84	146.6	32.61
1.4	1.84	145.36	36.71
1.41	1.84	143.54	40.27
1.42	1.83	141.08	40.81
1.43	1.79	137.54	37.53
1.44	1.77	135.69	36.26
1.45	1.75	133.04	36.8
1.46	1.72	128.86	34.71
1.47	1.69	126.98	35.62
1.48	1.66	124.97	33.71
1.49	1.63	123.24	33.43
1.5	1.58	119.89	39.81
1.51	1.57	117.4	42.54
1.52	1.57	115.46	43.27
1.53	1.57	110.45	43.09
1.54	1.56	111.25	44.46
1.55	1.55	109.91	44.46

1.56	1.56	107.83	47.55
1.57	1.51	105.18	44.91
1.58	1.47	102.82	45
1.59	1.45	100.97	43.64
1.6	1.45	99.73	42.09
1.61	1.45	99.73	42.09
1.62	1.44	95.13	43.91
1.63	1.43	93.66	45.09
1.64	1.42	92.19	48.74
1.65	1.42	91.3	53.02
1.66	1.41	89.51	49.19
1.67	1.38	88.84	44.73
1.68	1.36	85.94	43.73
1.69	1.38	84.18	42
1.7	1.37	82.37	40.72
1.71	1.34	79.94	41.72
1.72	1.33	81.28	41.63
1.73	1.33	81.28	41.63
1.74	1.29	80.48	42.18
1.75	1.29	78.85	41.63
1.76	1.28	78.12	42.27
1.77	1.26	77.77	43.27
1.78	1.27	77.96	42.27
1.79	1.27	77.96	42.27
1.8	1.32	79.08	43.09
1.81	1.33	80.55	44.37
1.82	1.34	81.41	43.64
1.83	1.35	80.48	43.09
1.84	1.34	80	40.36
1.85	1.34	78.5	39.08
1.86	1.34	78.5	39.08
1.87	1.36	77.16	37.9
1.88	1.35	76.88	39.17
1.89	1.35	78.44	39.36
1.9	1.35	79.81	39.45
1.91	1.34	80.96	40.45
1.92	1.34	80.96	40.45
1.93	1.33	79.43	39.54
1.94	1.27	78.28	40.17
1.95	1.24	77.29	39.26
1.96	1.19	74.48	40.54
1.97	1.16	74.04	41.91
1.98	1.16	74.04	41.91
1.99	1.14	72.7	44.27
2	1.13	72.28	44.64
2.01	1.13	70.4	51.02
2.02	1.14	68.55	51.84

2.03	1.14	66.19	50.56
2.04	1.11	61.88	47.74
2.05	1.09	60.25	47.01
2.06	1.08	59.01	49.01
2.07	1.08	59.01	49.01
2.08	1.08	59.01	49.01
2.09	1	62.36	33.34
2.1	1	62.32	34.34
2.11	0.99	62.29	35.62
2.12	0.98	62.52	34.44
2.13	0.97	62.23	33.71
2.14	0.97	62.23	33.71
2.15	0.97	61.27	33.16
2.16	0.98	61.49	32.98
2.17	1	61.75	33.16
2.18	1.02	61.59	33.07
2.19	1.02	62.68	34.16
2.2	1.02	62.68	34.16
2.21	1.01	62.26	34.98
2.22	1.02	60.79	34.62
2.23	1.04	58.97	34.71
2.24	1.04	58.65	33.71
2.25	1.05	57.95	33.34
2.26	1.05	56.71	33.34
2.27	1.06	56.77	33.62
2.28	1.05	56.52	34.07
2.29	1.05	56.36	33.71
2.3	1.05	57.28	33.52
2.31	1.05	58.08	33.43
2.32	1.04	58.11	33.07
2.33	1.04	57.57	32.7
2.34	1.03	58.75	32.61
2.35	1.03	59.58	33.07
2.36	1.02	60.09	33.8
2.37	1.01	60.86	33.98
2.38	1	61.11	33.98
2.39	0.99	61.11	34.25
2.4	0.98	60.86	34.44
2.41	0.98	60.6	34.8
2.42	0.98	59.8	36.17
2.43	0.97	59.96	36.17
2.44	0.95	59.13	35.71
2.45	0.92	58.11	35.71
2.46	0.91	57.28	35.16
2.47	0.89	56.52	35.35
2.48	0.87	55.85	35.89
2.49	0.84	54.7	36.35

2.5	0.83	54.09	36.44
2.51	0.82	53.23	35.8
2.52	0.8	52.4	35.98
2.53	0.78	51.54	35.98
2.54	0.76	50.8	36.17
2.55	0.74	50.29	36.53
2.56	0.72	49.21	38.72
2.57	0.71	48.57	39.26
2.58	0.7	47.9	38.81
2.59	0.69	47.04	38.72
2.6	0.67	45.76	39.99
2.61	0.67	44.77	39.99
2.62	0.67	43.75	40.08
2.63	0.67	42	41.91
2.64	0.67	41.45	43.64
2.65	0.68	40.85	45.09
2.66	0.69	40.27	50.56
2.67	0.71	38.84	59.58
2.68	0.73	38.07	59.49
2.69	0.74	37.75	60.03
2.7	0.76	37.62	60.03
2.71	0.79	37.46	59.85
2.72	0.84	37.66	59.49
2.73	0.86	37.5	59.31
2.74	0.88	37.21	59.03
2.75	0.9	36.54	58.03
2.76	0.89	36.38	54.39
2.77	0.88	36.51	52.84
2.78	0.88	36.51	52.84
2.79	0.83	38.17	50.2
2.8	0.82	39.19	49.74
2.81	0.81	40.46	49.38
2.82	0.81	42.73	49.92
2.83	0.82	43.46	49.83
2.84	0.82	43.46	49.83
2.85	0.84	45	49.92
2.86	0.88	46.18	50.56
2.87	0.89	47.01	50.47
2.88	0.9	48.89	50.56
2.89	0.91	49.5	50.47
2.9	0.91	49.72	50.38
2.91	0.91	49.62	50.38
2.92	0.92	49.08	50.38
2.93	0.92	47.64	50.1
2.94	0.92	46.66	49.92
2.95	0.91	45.03	49.19
2.96	0.9	45.54	49.01

2.97	0.9	46.46	48.83
2.98	0.89	46.72	48.65
2.99	0.88	46.82	48.28
3	0.85	47.39	47.55
3.01	0.82	48.16	47.01
3.02	0.81	48.63	46.46
3.03	0.81	48.63	46.46
3.04	0.8	49.14	45.82
3.05	0.8	49.14	45.82
3.06	0.8	49.14	45.82
3.07	0.81	48.41	49.01
3.08	0.8	47.74	49.01
3.09	0.8	47.01	49.01
3.1	0.79	46.56	48.83
3.11	0.76	45.79	48.56
3.12	0.75	44.93	48.37
3.13	0.74	43.62	48.19
3.14	0.73	43.11	48.28
3.15	0.73	43.11	48.28
3.16	0.7	42.22	49.01
3.17	0.69	41.68	49.65
3.18	0.65	40.46	50.2
3.19	0.64	39.86	50.92
3.2	0.63	39.22	52.47
3.21	0.62	38.84	53.66
3.22	0.62	38.84	53.66
3.23	0.61	37.05	56.94
3.24	0.61	35.97	57.94
3.25	0.61	34.66	58.21
3.26	0.61	33.83	58.49
3.27	0.61	33.06	58.76
3.28	0.61	33.06	58.76
3.29	0.61	32.17	58.21
3.3	0.59	31.31	57.76
3.31	0.58	31.05	57.94
3.32	0.57	30.83	57.85
3.33	0.58	29.65	57.85
3.34	0.58	29.14	57.85
3.35	0.59	28.75	57.85
3.36	0.6	28.43	57.57
3.37	0.6	28.63	57.39
3.38	0.61	28.72	57.21
3.39	0.62	28.31	57.12
3.4	0.63	28.31	57.03
3.41	0.63	28.63	56.85
3.42	0.64	29.49	56.94
3.43	0.64	29.81	57.03

3.44	0.65	30.19	56.94
3.45	0.65	31.69	57.39
3.46	0.66	32.33	57.76
3.47	0.68	33.19	58.49
3.48	0.62	34.02	60.4
3.49	0.62	35.23	60.95
3.5	0.6	36.79	65.41
3.51	0.6	36.83	65.77
3.52	0.6	36.99	66.78
3.53	0.64	35.81	68.96
3.54	0.66	35.07	69.87
3.55	0.69	34.53	70.33
3.56	0.7	34.31	70.42
3.57	0.72	35.2	70.33
3.58	0.73	34.98	70.42
3.59	0.74	34.85	70.24
3.6	0.75	34.94	70.06
3.61	0.76	35.14	69.87
3.62	0.78	35.74	69.42
3.63	0.79	36.73	69.05
3.64	0.79	38.01	68.87
3.65	0.8	39.19	68.69
3.66	0.81	40.02	68.78
3.67	0.81	40.02	68.78
3.68	0.84	42.89	68.96
3.69	0.86	44.26	68.78
3.7	0.84	47.01	67.96
3.71	0.83	48.19	67.6
3.72	0.82	49.08	67.41
3.73	0.82	49.81	67.41
3.74	0.82	51.03	67.32
3.75	0.83	51.09	67.23
3.76	0.83	51.28	67.23
3.77	0.83	51.73	66.87
3.78	0.83	51.79	66.68
3.79	0.82	52.08	66.68
3.8	0.81	52.53	66.5
3.81	0.8	52.78	66.41
3.82	0.8	52.4	66.32
3.83	0.8	51.79	66.23
3.84	0.8	50.93	66.14
3.85	0.8	49.21	66.5
3.86	0.81	48.38	66.5
3.87	0.81	47.87	66.32
3.88	0.81	47.49	66.05
3.89	0.8	47.49	65.86
3.9	0.78	47.17	65.5

3.91	0.77	46.94	65.5
3.92	0.75	47.04	65.32
3.93	0.74	46.69	65.14
3.94	0.71	46.15	64.59
3.95	0.7	46.05	64.23
3.96	0.69	46.69	64.04
3.97	0.66	47.49	64.86
3.98	0.65	46.75	64.95
3.99	0.66	45.73	64.77
4	0.66	45.22	64.68
4.01	0.66	45.41	64.5
4.02	0.64	45.51	64.32
4.03	0.64	45.16	64.32
4.04	0.64	45.16	64.32
4.05	0.64	45.16	64.32
4.06	0.64	45.16	64.32
4.07	0.63	41.17	62.13
4.08	0.64	40.34	62.13
4.09	0.65	39.6	62.31
4.1	0.65	39.16	62.4
4.11	0.66	38.71	62.86
4.12	0.67	38.93	63.04
4.13	0.66	38.93	63.31
4.14	0.67	38.81	64.13
4.15	0.67	38.84	64.68
4.16	0.67	38.84	64.68
4.17	0.67	39.06	65.86
4.18	0.67	39.38	66.05
4.19	0.68	39.57	65.86
4.2	0.69	39.7	65.86
4.21	0.69	40.4	66.32
4.22	0.69	41.04	66.87
4.23	0.69	41.04	66.87
4.24	0.7	41.26	67.14
4.25	0.7	41.36	67.41
4.26	0.71	41.36	67.87
4.27	0.71	41.33	68.14
4.28	0.71	41.8	68.96
4.29	0.71	42.28	69.51
4.3	0.71	42.6	69.51
4.31	0.71	42.92	69.6
4.32	0.69	43.34	71.88
4.33	0.69	43.53	74.61
4.34	0.69	43.3	75.16
4.35	0.71	42.51	75.25
4.36	0.72	42.28	75.07
4.37	0.74	42.44	74.97

4.38	0.73	43.24	74.88
4.39	0.74	43.75	74.79
4.4	0.74	44.61	74.52
4.41	0.75	45.03	74.43
4.42	0.75	45.03	74.52
4.43	0.74	45.12	74.61
4.44	0.74	45.54	74.52
4.45	0.76	45.03	74.61
4.46	0.77	45.03	74.34
4.47	0.75	46.34	73.79
4.48	0.75	47.33	73.61
4.49	0.75	47.33	73.61
4.5	0.74	48.89	73.61
4.51	0.74	49.24	74.06
4.52	0.73	49.18	73.88
4.53	0.73	49.53	74.34
4.54	0.72	49.3	74.88
4.55	0.72	48.73	75.25
4.56	0.72	48.73	75.25
4.57	0.74	47.04	75.52
4.58	0.74	47.04	75.52
4.59	0.73	47.33	75.52
4.6	0.72	46.91	75.07
4.61	0.71	46.27	75.07
4.62	0.71	45.7	75.07
4.63	0.69	45.28	76.16
4.64	0.68	44.96	77.34
4.65	0.68	42.95	77.25
4.66	0.69	42.16	76.98
4.67	0.67	41.71	76.8
4.68	0.67	41.71	76.61
4.69	0.67	41.71	76.43
4.7	0.66	41.84	76.25
4.71	0.66	41.84	76.25
4.72	0.64	41.96	76.07
4.73	0.62	41.39	77.25
4.74	0.62	40.82	77.25
4.75	0.63	40.08	76.98
4.76	0.63	39.7	76.71
4.77	0.62	38.65	76.34
4.78	0.62	38.26	76.07
4.79	0.61	38.17	75.89
4.8	0.61	37.69	75.7
4.81	0.61	36.41	75.52
4.82	0.61	35.84	75.7
4.83	0.61	35.04	75.52
4.84	0.61	34.53	75.43

4.85	0.6	34.21	75.07
4.86	0.6	34.11	74.88
4.87	0.58	34.08	74.7
4.88	0.58	34.47	74.43
4.89	0.57	34.82	74.25
4.9	0.55	34.94	73.88
4.91	0.54	35.1	73.79
4.92	0.54	35.33	73.7
4.93	0.53	35.33	73.61
4.94	0.53	35.45	73.43
4.95	0.52	35.77	73.24
4.96	0.5	36	72.97
4.97	0.5	36	72.97
4.98	0.49	35.87	72.88
4.99	0.49	35.61	72.97
5	0.49	35.42	72.97
5.01	0.48	34.75	73.43
5.02	0.48	34.75	73.43
5.03	0.49	33.95	73.7
5.04	0.49	33.54	74.16
5.05	0.49	33.54	74.16
5.06	0.49	33.54	74.16
5.07	0.52	29.14	73.97
5.08	0.52	28.85	76.25
5.09	0.53	28.53	76.71
5.1	0.53	28.18	78.16
5.11	0.54	28.11	83.17
5.12	0.54	28.11	83.17
5.13	0.55	28.11	84.72
5.14	0.55	27.99	87
5.15	0.56	27.8	88.91
5.16	0.56	27.86	96.66
5.17	0.56	27.76	98.02
5.18	0.57	27.89	99.94
5.19	0.57	28.15	100.48
5.2	0.57	28.47	100.57
5.21	0.6	28.69	100.67
5.22	0.6	28.66	101.03
5.23	0.61	28.94	101.03
5.24	0.61	29.58	100.3
5.25	0.61	29.81	100.03
5.26	0.61	30.25	99.66
5.27	0.61	30.92	99.48
5.28	0.61	31.5	99.3
5.29	0.61	32.74	98.93
5.3	0.61	33.79	98.75
5.31	0.6	34.62	98.48

5.32	0.6	35.33	98.39
5.33	0.59	35.65	98.3
5.34	0.57	36	97.93
5.35	0.56	36.28	97.75
5.36	0.55	36.48	97.48
5.37	0.55	36.35	97.39
5.38	0.55	36.35	97.2
5.39	0.56	35.93	97.11
5.4	0.57	35.97	97.11
5.41	0.57	36	97.02
5.42	0.56	36.28	97.02
5.43	0.56	36.19	97.29
5.44	0.56	35.77	97.84
5.45	0.56	35.36	98.48
5.46	0.56	35.2	99.48
5.47	0.56	35.1	99.85
5.48	0.56	35.1	99.85
5.49	0.57	34.62	100.03
5.5	0.58	34.59	100.3
5.51	0.58	34.59	100.48
5.52	0.59	34.62	100.67
5.53	0.59	34.82	100.94
5.54	0.59	34.4	101.12
5.55	0.59	33.79	100.85
5.56	0.59	33.32	100.85
5.57	0.59	33	101.67
5.58	0.6	32.93	101.58
5.59	0.6	33.12	101.48
5.6	0.6	33.09	101.58
5.61	0.61	33.12	101.94
5.62	0.61	33.89	104.76
5.63	0.61	34.4	106.86
5.64	0.61	34.62	108.32
5.65	0.61	35.07	112.14
5.66	0.62	35.36	114.88
5.67	0.63	36.09	120.34
5.68	0.63	36.09	120.34
5.69	0.65	36.67	121.98
5.7	0.69	37.08	123.53
5.71	0.7	37.46	123.26
5.72	0.71	37.98	123.08
5.73	0.72	38.39	122.98
5.74	0.72	38.33	122.62
5.75	0.72	38.45	122.35
5.76	0.71	38.84	121.98
5.77	0.71	38.84	121.98
5.78	0.74	39.28	120.62

5.79	0.77	39.89	120.71
5.8	0.87	40.91	122.8
5.81	0.9	42.25	121.98
5.82	0.98	44.58	123.9
5.83	1.01	45.41	125.17
5.84	0.99	47.45	124.35
5.85	0.98	48.12	116.52
5.86	0.89	50.52	89.37
5.87	0.69	54.35	89.28
5.88	0.65	55.59	90.55
5.89	0.65	54.22	91.46
5.9	0.66	52.66	93.01
5.91	0.69	51.63	95.29
5.92	0.7	49.18	99.66
5.93	0.7	47.55	102.12
5.94	0.71	45.47	105.77
5.95	0.78	42.28	112.96
5.96	0.79	41.29	117.43
5.97	0.79	41.23	122.89
5.98	0.87	38.71	137.29
5.99	0.93	36.92	142.02
6	0.94	34.85	142.48
6.01	0.99	31.24	142.48
6.02	1.03	29.77	131.73
6.03	1.03	29.77	131.73
6.04	1.03	29.77	131.73
6.05	1.03	29.77	131.73
6.06	1.05	30.7	134.46
6.07	1.08	32.42	140.84
6.08	1.12	36.19	146.03
6.09	1.12	36.19	146.03
6.1	1.2	40.37	159.42
6.11	1.15	42	165.07
6.12	1.17	43.53	166.44
6.13	1.26	46.21	164.43
6.14	1.25	48.95	166.62
6.15	1.24	51.89	168.26
6.16	1.25	53.52	166.71
6.17	1.27	53.9	164.98
6.18	1.24	56.07	166.07
6.19	1.25	57.86	167.26
6.2	1.22	59.26	166.89
6.21	1.14	62.48	165.35
6.22	1.15	62.32	167.08
6.23	1.11	63.15	166.07
6.24	1.08	64.18	164.89
6.25	1.05	65.74	157.33

6.26	1.03	65.99	155.6
6.27	1.01	67.11	152.87
6.28	0.98	67.14	151.13
6.29	0.98	67.14	151.13
6.3	0.96	67.21	150.13
6.31	0.89	67.05	150.77
6.32	0.84	65.83	149.86
6.33	0.81	63.31	148.13
6.34	0.8	61.3	146.76
6.35	0.79	59.8	145.85
6.36	0.77	58.85	144.85
6.37	0.76	57	143.76
6.38	0.75	53.26	142.02
6.39	0.73	52.46	141.48
6.4	0.72	51.35	141.39
6.41	0.72	48.06	140.2
6.42	0.71	46.82	139.56
6.43	0.7	45.47	139.66
6.44	0.7	44.36	139.84
6.45	0.7	42.54	141.66
6.46	0.71	41.29	142.94
6.47	0.71	40.34	143.21
6.48	0.73	39.38	144.76
6.49	0.73	39.38	144.76
6.5	0.69	39.16	143.57
6.51	0.67	38.33	141.93
6.52	0.65	37.15	141.84
6.53	0.64	34.66	141.93
6.54	0.64	33.7	142.21
6.55	0.66	32.45	142.57
6.56	0.67	31.4	142.84
6.57	0.68	30.54	143.48
6.58	0.72	28.31	145.39
6.59	0.72	27.64	145.67
6.6	0.73	27.06	146.4
6.61	0.76	26.1	148.4
6.62	0.78	25.4	149.22
6.63	0.8	24.73	150.31
6.64	0.81	24.92	151.59
6.65	0.83	24.83	153.68
6.66	0.87	23.74	154.69
6.67	0.9	23.01	156.6
6.68	1	23.74	160.61
6.69	1.06	24.19	163.07
6.7	1.12	25.05	164.8
6.71	1.15	25.85	166.17
6.72	1.24	28.05	168.63

6.73	1.29	28.69	169.26
6.74	1.31	29.61	168.35
6.75	1.31	31.72	168.17
6.76	1.31	31.72	168.17
6.77	1.31	39.86	169.63
6.78	1.31	39.86	169.63
6.79	1.38	41.58	171.08
6.8	1.54	44.87	173.18
6.81	1.6	48.44	174.36
6.82	1.68	52.3	176.73
6.83	1.67	53.23	175.82
6.84	1.69	53.9	175.55
6.85	1.72	58.18	174.27
6.86	1.73	62.01	174.09
6.87	1.75	66.7	173.82
6.88	1.64	73.08	173.45
6.89	1.64	73.08	173.45
6.9	1.65	74.13	173.91
6.91	1.66	73.81	174.18
6.92	1.7	74	174.36
6.93	1.72	75.31	175.18
6.94	1.71	74.61	174.18
6.95	1.74	75.19	174
6.96	1.72	77.58	174.09
6.97	1.71	81.92	173.36
6.98	1.63	80.07	174.82
6.99	1.68	80.04	176.19
7	1.73	76.94	182.29
7.01	1.83	75.15	183.57
7.02	1.83	75.15	183.57
7.03	1.67	71.04	184.2
7.04	1.67	71.04	184.2
7.05	1.67	71.04	184.2
7.06	1.9	55.62	292.16
7.07	1.9	56.74	285.78
7.08	1.85	58.59	269.56
7.09	1.88	59.42	275.12
7.1	1.86	59.04	275.67
7.11	1.77	59.84	359.39
7.12	1.75	58.37	365.49
7.13	1.71	57.98	371.32
7.14	1.69	58.75	371.96
7.15	1.59	59.04	345.36
7.16	1.57	59.87	364.49
7.17	1.51	59.07	382.44
7.18	1.44	59.2	385.08
7.19	1.41	58.08	382.62

7.2	1.35	51.89	376.24
7.21	1.34	49.21	373.6
7.22	1.34	47.39	372.23
7.23	1.34	42.22	371.14
7.24	1.36	39.7	371.41
7.25	1.36	39.7	371.41
7.26	1.43	37.4	372.87
7.27	1.47	36.48	374.51
7.28	1.56	33.57	376.24
7.29	1.59	32.55	376.33
7.3	1.62	32.23	376.61
7.31	1.69	31.62	377.24
7.32	1.72	31.24	376.88
7.33	1.74	30.86	375.15
7.34	1.74	30.86	375.15
7.35	1.86	29.81	374.69
7.36	1.96	30.13	377.88
7.37	2.05	30.7	381.71
7.38	2.11	31.56	384.44
7.39	2.17	33.16	385.99
7.4	2.26	37.11	386.08
7.41	2.26	37.11	386.08
7.42	2.2	40.21	380.07
7.43	2.08	41.71	373.6
7.44	2.01	40.75	371.5
7.45	1.97	39.63	370.14
7.46	1.93	37.85	369.5
7.47	1.91	32.52	370.05
7.48	1.92	31.18	370.78
7.49	1.96	30.83	372.42
7.5	2.03	29.81	375.42
7.51	2.03	29.81	375.42
7.52	2.08	27.64	376.51
7.53	2.09	27.51	376.79
7.54	2.1	26.93	377.24
7.55	2.13	25.63	377.97
7.56	2.14	25.24	378.06
7.57	2.14	25.18	377.97
7.58	2.12	24.73	378.15
7.59	2.15	24.86	378.97
7.6	2.16	25.53	378.52
7.61	2.16	25.53	378.52
7.62	2.07	27.96	374.69
7.63	2.01	28.05	372.51
7.64	1.94	27.92	371.87
7.65	1.9	28.31	371.69
7.66	1.84	28.72	374.69

7.67	1.83	28.15	380.8
7.68	1.8	27.44	392.27
7.69	1.83	27.44	398.56
7.7	1.75	27.16	421.24
7.71	1.75	27.16	421.24
7.72	1.77	26.81	436.28
7.73	1.77	26.77	443.75
7.74	1.77	27.16	454.68
7.75	1.8	26.87	459.14
7.76	1.83	26.14	457.41
7.77	1.95	26.39	465.15
7.78	1.95	26.39	465.15
7.79	1.92	26.74	473.63
7.8	1.94	25.53	478.55
7.81	2.05	26.9	480.46
7.82	2.06	27.25	479.37
7.83	2.02	27.16	482.92
7.84	1.98	26.1	498.13
7.85	1.95	26.36	494.12
7.86	1.89	27.32	495.4
7.87	1.86	29.45	500.05
7.88	1.86	29.74	511.8
7.89	1.89	30.09	518.72
7.9	1.89	31.21	517.72
7.91	1.87	32.52	512.98
7.92	1.85	34.27	511.16
7.93	1.84	37.43	494.12
7.94	1.84	37.4	502.78
7.95	1.81	35.29	506.79
7.96	1.92	34.56	510.34
7.97	1.88	33.64	482.65
7.98	1.92	33.09	493.3
7.99	1.94	32.71	490.3
8	1.92	31.91	497.22
8.01	1.96	29.33	518.45
8.02	1.94	29.2	509.52
8.03	1.94	29.2	509.52
8.04	1.94	29.2	509.52
8.05	1.94	29.2	509.52
8.06	2.2	26.1	522.27
8.07	2.18	30.32	505.15
8.08	2.13	34.82	406.49
8.09	2.06	35.81	421.34
8.1	2.02	36.99	428.81
8.11	1.99	38.33	465.06
8.12	2	41.8	478.64
8.13	2.02	42.54	440.65

8.14	2.02	42.54	440.65
8.15	1.96	45.51	476.27
8.16	1.96	47.33	478.36
8.17	1.92	48.22	481.1
8.18	1.9	48.63	483.01
8.19	1.89	47.64	486.38
8.2	1.92	46.78	491.57
8.21	1.92	46.78	491.57
8.22	2.03	48.79	502.96
8.23	2.19	51.83	482.37
8.24	2.29	51.51	490.84
8.25	2.4	51	482.1
8.26	2.48	51.95	461.24
8.27	2.51	52.02	435.27
8.28	2.48	50.64	388.27
8.29	2.31	41.36	387.08
8.3	2.34	40.98	393.28
8.31	2.33	40.59	440.19
8.32	2.34	40.18	465.43
8.33	2.31	37.5	532.11
8.34	2.37	38.26	519.63
8.35	2.47	39.28	491.21
8.36	2.55	41.26	480.91
8.37	2.55	41.26	480.91
8.38	2.57	44.33	496.49
8.39	2.73	46.37	506.6
8.4	3.1	54.44	451.03
8.41	3.16	56.45	373.6
8.42	3.27	60.19	314.48
8.43	3.52	63.76	227.2
8.44	3.58	64.24	146.21
8.45	3.46	64.85	85.36
8.46	3.28	65.52	49.47
8.47	2.95	67.3	156.51
8.48	2.85	74.32	171.18
8.49	2.72	82.11	224.1
8.5	2.61	87.38	186.94
8.51	2.53	87.31	206.98
8.52	2.6	90.15	252.53
8.53	2.7	92.42	261.64
8.54	2.83	95.8	268.56
8.55	3.07	100.33	271.66
8.56	3.12	98.8	269.2
8.57	3.08	98.29	266.92
8.58	2.9	94.68	263.64
8.59	2.75	88.46	260.54
8.6	2.51	78.6	259.36

8.61	2.45	75.22	272.3
8.62	2.43	74.45	292.52
8.63	2.51	69.92	353.56
8.64	2.59	70.11	382.98
8.65	2.69	70.59	387.17
8.66	2.79	70.4	384.17
8.67	3.08	71.45	373.69
8.68	3.25	70.88	368.77
8.69	3.44	72.03	361.94
8.7	3.63	75.82	335.25
8.71	3.86	80.45	215.54
8.72	3.95	81.47	126.36
8.73	4.03	83.99	23.78
8.74	4.09	89.1	9.57
8.75	4.04	92.13	7.01
8.76	3.96	93.92	4.46
8.77	3.89	95.86	2.1
8.78	3.72	100.49	-5.37
8.79	3.72	100.49	-5.37
8.8	3.59	106.84	-14.76
8.81	3.48	106.62	-22.05
8.82	3.48	103.65	-24.51
8.83	3.49	101.23	-27.42
8.84	3.5	99.41	-29.79
8.85	3.59	96.34	-32.98
8.86	3.64	93.28	-34.07
8.87	3.69	90.15	-35.07
8.88	3.83	79.3	-35.26
8.89	3.88	73.69	-35.71
8.9	3.87	68.61	-35.26
8.91	3.8	59.87	-34.8
8.92	3.6	53.1	-33.43
8.93	3.48	55.91	-31.79
8.94	3.35	59.45	-30.52
8.95	3.09	66.03	-27.6
8.96	3.09	66.03	-27.6
8.97	2.81	70.97	-24.6
8.98	2.7	66.95	-23.32
8.99	2.49	69.95	-20.86
9	2.49	71.13	-19.5
9.01	2.57	75.44	-18.13
9.02	2.79	83.29	-15.3
9.03	2.79	83.29	-15.3
9.04	2.79	83.29	-15.3
9.05	2.79	83.29	-15.3
9.06	4.09	107.32	25.23
9.07	4.27	107.7	12.3

9.08	4.42	106.36	1.64
9.09	4.73	97.87	-4.37
9.1	4.73	97.87	-4.37
9.11	5	89.55	-2
9.12	5.14	70.69	3.46
9.13	5.22	59.04	5.74
9.14	5.27	49.18	7.29
9.15	5.44	37.53	10.29
9.16	5.53	33.48	12.21
9.17	5.62	29.9	14.76
9.18	5.67	26.3	17.22
9.19	5.71	20.71	21.04
9.2	5.68	19.43	22.05
9.21	5.66	18.96	22.87
9.22	5.59	18.83	24.14
9.23	5.56	18.92	24.78
9.24	5.51	19.47	25.33
9.25	5.45	19.53	25.78
9.26	5.22	19.79	26.33
9.27	5.05	19.24	26.24
9.28	4.87	18.86	25.96
9.29	4.69	18.54	25.69
9.3	4.28	18	25.05
9.31	4.09	17.84	24.87
9.32	4.09	17.84	24.87
9.33	3.64	17.3	24.6
9.34	3.51	16.79	24.51
9.35	3.39	16.31	24.69
9.36	3.33	16.12	24.87
9.37	3.23	16.12	25.6
9.38	3.23	16.12	25.6
9.39	3.19	16.4	26.51
9.4	3.2	16.4	27.6
9.41	3.21	16.53	28.15
9.42	3.25	17.04	28.79
9.43	3.28	17.01	29.33
9.44	3.32	17.39	30.61
9.45	3.34	17.9	31.25
9.46	3.34	18	31.79
9.47	3.35	17.07	32.34
9.48	3.34	16.24	32.61
9.49	3.34	15.06	32.98
9.5	3.35	13.59	33.34
9.51	3.4	12.48	33.89
9.52	3.44	12.41	34.34
9.53	3.49	12.41	34.8
9.54	3.55	12.48	35.53

9.55	3.59	12.06	35.8
9.56	3.63	12.45	36.17
9.57	3.68	12.41	36.53
9.58	3.78	12.73	37.26
9.59	3.81	12.8	37.62
9.6	3.85	12.22	37.99
9.61	3.94	9.89	38.72
9.62	4	9.19	39.08
9.63	4.05	8.9	39.54
9.64	4.11	8.71	39.9
9.65	4.23	8.49	40.54
9.66	4.28	8.81	40.81
9.67	4.31	9.25	40.9
9.68	4.35	9.73	41.09
9.69	4.47	10.18	41.81
9.7	4.56	10.24	42.27
9.71	4.56	10.24	42.27
9.72	4.82	11.14	43.45
9.73	4.9	11.52	43.82
9.74	5.01	12.03	44.27
9.75	5.11	12.89	44.64
9.76	5.35	13.88	45.73
9.77	5.48	14.3	46.19
9.78	5.62	14.58	46.83
9.79	5.9	14.78	47.92
9.8	6.06	14.9	48.46
9.81	6.22	15.32	49.01
9.82	6.38	15.51	49.47
9.83	6.58	15.96	49.83
9.84	6.61	16.47	49.83
9.85	6.62	16.47	49.65
9.86	6.54	17.01	48.92
9.87	6.46	16.34	48.65
9.88	6.39	16.15	48.28
9.89	6.31	15.92	47.83
9.9	6.06	15.96	46.83
9.91	5.94	15.8	46.37
9.92	5.82	16.05	45.91
9.93	5.6	17.33	45
9.94	5.52	18.13	44.82
9.95	5.46	18.57	44.73
9.96	5.41	19.27	44.64
9.97	5.38	20.42	44.91
9.98	5.41	21.03	45.19
9.99	5.42	21.64	45.46
10	5.4	22.21	45.73
10.01	5.38	22.56	45.64

10.02	5.36	23.49	45.55
10.03	5.33	24.48	45.55
10.04	5.33	24.48	45.55
10.05	5.33	24.48	45.55
10.06	5.1	20.01	58.21
10.07	5.01	19.79	56.85
10.08	4.92	19.59	55.39
10.09	4.8	19.31	54.02
10.1	4.56	19.21	51.47
10.11	4.45	19.56	50.38
10.12	4.34	19.91	49.38
10.13	4.25	20.3	48.56
10.14	4.09	20.65	47.19
10.15	4.04	20.65	46.83
10.16	4	20.49	46.55
10.17	4	20.49	46.55
10.18	4.06	21	46.92
10.19	4.13	21.54	47.28
10.2	4.33	22.08	48.37
10.21	4.44	21.96	49.1
10.22	4.56	21.8	49.74
10.23	4.82	21.41	51.11
10.24	4.93	20.81	51.56
10.25	5.03	20.01	51.84
10.26	5.1	19.31	51.93
10.27	5.2	17.93	52.02
10.28	5.22	17.07	51.84
10.29	5.23	16.59	51.65
10.3	5.22	16.28	51.47
10.31	5.23	15.92	51.11
10.32	5.22	15.89	50.92
10.33	5.21	15.99	50.83
10.34	5.19	16.88	50.56
10.35	5.18	17.62	50.56
10.36	5.19	18.45	50.47
10.37	5.21	19.37	50.56
10.38	5.25	20.9	50.74
10.39	5.29	21.51	50.92
10.4	5.32	22.18	51.11
10.41	5.45	23.39	51.74
10.42	5.55	23.84	52.29
10.43	5.64	24.35	52.93
10.44	5.97	25.05	54.57
10.45	5.97	25.05	54.57
10.46	6.38	25.43	56.3
10.47	6.74	25.69	57.57
10.48	6.84	25.88	57.76

10.49	6.91	26.1	57.94
10.5	6.97	26.3	58.03
10.51	7.08	26.77	58.39
10.52	7.17	27	58.58
10.53	7.24	27.13	58.76
10.54	7.37	27.25	58.94
10.55	7.41	27.41	58.85
10.56	7.4	27.41	58.76
10.57	7.37	27.48	58.49
10.58	7.26	27.48	57.85
10.59	7.18	27.22	57.39
10.6	7.06	26.61	56.85
10.61	6.75	25.75	55.39
10.62	6.61	25.05	54.75
10.63	6.46	24.41	54.11
10.64	6.31	23.55	53.66
10.65	6	22.63	52.38
10.66	5.85	22.69	51.84
10.67	5.67	22.66	51.11
10.68	5.31	22.82	49.65
10.69	5.13	23.1	49.1
10.7	4.97	23.55	48.74
10.71	4.85	23.84	48.37
10.72	4.66	24.57	48.28
10.73	4.59	25.11	48.19
10.74	4.51	25.4	48.1
10.75	4.41	25.66	47.83
10.76	4.14	25.98	46.64
10.77	3.95	25.94	45.82
10.78	3.95	25.94	45.82
10.79	3.35	25.66	42.82
10.8	3.19	26.71	42.18
10.81	3.08	27	42
10.82	3	26.58	42.18
10.83	2.96	24.32	43.64
10.84	3	23.74	44.64
10.85	3.05	23.33	45.73
10.86	3.22	22.85	48.1
10.87	3.32	22.24	49.19
10.88	3.43	21.92	50.29
10.89	3.54	22.21	51.38
10.9	3.72	23.23	52.56
10.91	3.78	22.82	52.66
10.92	3.83	22.24	52.75
10.93	3.85	21.06	53.02
10.94	3.81	20.26	52.66
10.95	3.76	19.82	52.02

10.96	3.62	19.15	51.65
10.97	3.53	13.31	51.38
10.98	3.59	13.34	51.74
10.99	3.69	13.02	52.2
11	3.75	11.07	52.38
11.01	3.73	10.15	52.02
11.02	3.68	10.79	51.56
11.03	3.61	11.81	51.02
11.04	3.61	11.81	51.02
11.05	3.61	11.81	51.02
11.06	3.21	11.62	63.31
11.07	3.01	14.52	60.13
11.08	2.92	16.72	59.21
11.09	2.85	18.8	58.67
11.1	2.81	21.22	59.31
11.11	2.81	26.84	64.59
11.12	2.81	26.84	64.59
11.13	2.96	34.15	71.24
11.14	3.18	36.22	69.51
11.15	3.27	37.46	68.42
11.16	3.35	37.5	68.23
11.17	3.42	36.89	67.78
11.18	3.49	37.5	66.78
11.19	3.53	36.64	66.78
11.2	3.62	36.22	67.23
11.21	4.04	37.4	69.42
11.22	4.36	37.91	70.51
11.23	4.74	38.9	72.79
11.24	5.82	41.55	78.71
11.25	5.82	41.55	78.71
11.26	7.3	41.77	82.9
11.27	8.85	43.24	79.44
11.28	9.53	43.08	72.61
11.29	10.12	44.26	69.96
11.3	10.59	46.34	68.51
11.31	11.09	47.13	66.41
11.32	11.04	43.62	66.78
11.33	10.59	30.92	66.5
11.34	10.38	29.97	66.14
11.35	10.17	30.83	65.5
11.36	9.9	33.32	64.86
11.37	9.24	39.7	62.86
11.38	8.89	43.02	61.77
11.39	8.59	46.11	60.95
11.4	8.13	51.19	60.31
11.41	8.01	53.84	60.4
11.42	7.93	57.03	60.76

11.43	7.94	62.23	62.31
11.44	7.94	62.23	62.31
11.45	8.12	65.68	64.5
11.46	8.39	65.68	67.14
11.47	8.55	65.07	68.32
11.48	8.72	64.4	69.78
11.49	8.92	63.38	71.42
11.5	9.44	61.08	74.61
11.51	9.8	59.87	76.16
11.52	10.51	57.95	78.89
11.53	10.81	57.22	79.8
11.54	11.05	56.93	80.44
11.55	11.23	57.06	80.99
11.56	11.45	57.54	81.44
11.57	11.45	57.54	81.44
11.58	11.43	59.04	81.08
11.59	11.17	61.94	79.89
11.6	10.97	63.79	79.07
11.61	10.71	65.9	78.16
11.62	10.14	70.24	75.89
11.63	9.81	72.22	74.61
11.64	9.49	74	73.24
11.65	8.76	76.72	70.51
11.66	8.39	77.71	69.24
11.67	8.05	78.5	68.23
11.68	7.77	78.95	67.6
11.69	7.42	79.24	67.78
11.7	7.35	79.3	68.42
11.71	7.4	78.79	70.88
11.72	7.51	78.03	72.33
11.73	7.65	76.68	74.06
11.74	7.81	74.77	75.7
11.75	8.18	70.53	78.98
11.76	8.18	70.53	78.98
11.77	8.66	67.18	82.72
11.78	9.28	64.11	86.45
11.79	9.64	63.12	88.37
11.8	10.04	62.2	90.19
11.81	10.49	61.08	92.1
11.82	11.52	59.39	95.11
11.83	11.95	59.07	96.11
11.84	12.62	59.42	97.39
11.85	12.86	59.74	97.66
11.86	13.08	60.25	97.75
11.87	13.23	60.86	97.75
11.88	13.44	63.19	97.57
11.89	13.53	65.13	97.39

11.9	13.62	70.17	97.11
11.91	13.68	72.76	97.11
11.92	13.71	75.12	97.11
11.93	13.85	79.4	97.39
11.94	13.91	81.31	97.57
11.95	13.91	81.31	97.57
11.96	13.89	86.71	97.48
11.97	13.86	88.52	97.39
11.98	13.79	90.34	97.39
11.99	13.76	92.03	97.39
12	13.68	95.16	97.57
12.01	13.68	96.53	97.75
12.02	13.64	98.45	98.11
12.03	13.61	98.93	98.48
12.04	13.61	98.93	98.48
12.05	13.61	98.93	98.48
12.06	13.38	81.57	124.53
12.07	13.47	86	116.24
12.08	13.53	89.13	110.69
12.09	13.59	90.44	108.77
12.1	13.63	91.65	107.22
12.11	13.75	93.6	105.13
12.12	13.82	94.4	104.31
12.13	13.91	95.29	103.67
12.14	14.02	96.28	102.76
12.15	14.05	96.95	102.4
12.16	14.14	97.72	101.94
12.17	14.19	97.97	102.03
12.18	14.25	98.29	102.12
12.19	14.37	98.64	102.49
12.2	14.62	99.09	103.4
12.21	14.74	98.96	103.67
12.22	14.91	99.76	104.4
12.23	14.98	100.01	104.67
12.24	15.01	100.11	104.76
12.25	15	100.62	104.67
12.26	14.82	101.96	104.04
12.27	14.82	101.96	104.04
12.28	14.18	104.74	102.3
12.29	13.93	105.28	101.67
12.3	13.65	106.27	101.12
12.31	13.37	107.42	100.3
12.32	12.84	109.55	99.12
12.33	12.61	110.89	98.75
12.34	12.32	113.1	98.93
12.35	12.26	113.7	99.39
12.36	12.25	113.22	101.12

12.37	12.25	113.22	101.12
12.38	12.38	112.78	103.22
12.39	12.44	111.95	104.13
12.4	12.51	109.3	105.4
12.41	12.55	107.96	105.95
12.42	12.68	105.76	107.22
12.43	12.78	104.7	107.95
12.44	12.87	103.11	108.59
12.45	13.04	99.92	109.68
12.46	13.08	98.19	109.77
12.47	13.06	96.44	109.68
12.48	12.88	94.14	108.86
12.49	12.74	93.85	108.23
12.5	12.57	94.05	107.41
12.51	12.19	95.32	105.95
12.52	12	96.22	105.31
12.53	11.84	96.69	105.04
12.54	11.64	97.52	105.13
12.55	11.53	97.78	105.04
12.56	11.39	98.35	104.67
12.57	11.07	100.11	103.58
12.58	11.07	100.11	103.58
12.59	10.72	101.51	102.49
12.6	10.4	101.83	102.03
12.61	10.31	101.38	102.12
12.62	10.23	101.13	102.4
12.63	10.14	100.52	103.31
12.64	10.14	100.52	103.31
12.65	10.28	99.34	106.04
12.66	10.41	98.86	107.41
12.67	10.58	98.29	108.86
12.68	10.76	97.65	110.14
12.69	11.13	95.83	112.23
12.7	11.27	94.72	112.87
12.71	11.41	92.58	112.96
12.72	11.43	91.59	112.51
12.73	11.41	91.05	112.05
12.74	11.37	90.85	111.69
12.75	11.29	91.36	110.96
12.76	11.27	91.78	110.59
12.77	11.17	92.74	109.96
12.78	11.11	93.28	109.5
12.79	11.03	93.95	109.05
12.8	10.86	94.97	108.04
12.81	10.76	95.67	107.5
12.82	10.64	96.31	107.04
12.83	10.52	96.92	106.4

12.84	10.22	98	104.86
12.85	10.04	98.32	104.04
12.86	9.65	98.1	102.3
12.87	9.65	98.1	102.3
12.88	9.35	97.2	101.21
12.89	9.19	96.69	100.85
12.9	8.98	95.26	100.57
12.91	8.91	94.36	100.67
12.92	8.82	92.13	101.3
12.93	8.82	92.13	101.3
12.94	8.82	90.06	102.21
12.95	8.87	89.19	103.12
12.96	9.1	86.8	105.86
12.97	9.29	85.65	107.41
12.98	9.52	84.73	109.14
12.99	10.13	82.68	113.15
13	10.54	82.27	114.42
13.01	10.91	82.46	114.24
13.02	11.37	83.13	112.51
13.03	11.55	82.81	112.05
13.04	11.55	82.81	112.05
13.05	11.55	82.81	112.05
13.06	11.18	63.06	109.5
13.07	11.05	62.68	106.13
13.08	10.93	63.19	102.12
13.09	10.98	64.81	101.3
13.1	11.07	66.38	101.03
13.11	11.45	68.8	101.85
13.12	11.75	69.28	102.76
13.13	12.16	69.63	104.31
13.14	13.2	70.94	108.5
13.15	13.84	73.49	110.5
13.16	15.06	78.7	113.6
13.17	15.57	79.94	114.51
13.18	15.99	82.24	114.97
13.19	16.33	84.76	115.06
13.2	16.71	91.52	114.51
13.21	16.85	93.79	114.06
13.22	17.01	99.5	113.33
13.23	17.05	102.53	113.05
13.24	17.09	105.69	112.87
13.25	17.15	112.78	112.51
13.26	17.15	112.78	112.51
13.27	17.04	118.59	111.87
13.28	16.72	124.74	110.59
13.29	16.46	130.04	109.87
13.3	16.13	134.51	109.05

13.31	15.36	142.46	106.77
13.32	14.97	146.25	105.77
13.33	14.6	149.83	105.31
13.34	14	154.2	104.86
13.35	13.8	154.97	104.86
13.36	13.61	155.28	105.04
13.37	13.27	154.68	105.22
13.38	13.17	154.49	105.49
13.39	13.03	154.17	105.77
13.4	12.83	153.05	106.4
13.41	12.74	152.19	106.68
13.42	12.66	150.63	107.13
13.43	12.52	146.32	108.14
13.44	12.49	143.57	108.41
13.45	12.42	140.99	108.77
13.46	12.32	136.07	109.59
13.47	12.25	133.81	109.77
13.48	12.1	130.62	109.87
13.49	12.01	129.44	109.87
13.5	11.92	128.32	109.68
13.51	11.64	126.09	108.86
13.52	11.48	125.16	108.5
13.53	11.31	124.14	107.77
13.54	10.92	122.86	106.68
13.55	10.73	122.42	105.95
13.56	10.55	122.22	105.58
13.57	10.39	121.65	105.22
13.58	10.12	120.82	104.95
13.59	10.02	120.25	105.04
13.6	9.9	118.75	105.95
13.61	9.9	118.75	105.95
13.62	9.91	117.63	107.41
13.63	9.95	116.73	108.5
13.64	10.17	115.14	111.23
13.65	10.33	113.96	112.78
13.66	10.53	112.81	114.33
13.67	11	110.86	117.52
13.68	11.28	109.78	119.07
13.69	11.59	108.66	120.98
13.7	11.96	107.45	122.98
13.71	12.84	105.53	127.81
13.72	13.34	104.61	130.09
13.73	13.85	103.84	131.64
13.74	14.29	103.52	132.37
13.75	15.06	103.91	133.01
13.76	15.42	104.67	133.37
13.77	16.02	106.11	133.28

13.78	16.26	107.22	133.01
13.79	16.46	107.9	132.91
13.8	16.66	108.72	132.73
13.81	16.93	111.09	132.46
13.82	17.07	112.27	132.55
13.83	17.07	112.27	132.55
13.84	17.44	117.31	132.82
13.85	17.59	118.81	133.37
13.86	17.78	120.5	133.28
13.87	17.73	121.39	132.91
13.88	17.68	122	132.55
13.89	17.53	122.45	131.91
13.9	17.35	124.3	131.55
13.91	17.22	125.51	131.37
13.92	16.95	128.77	131
13.93	16.95	128.77	131
13.94	16.69	131.89	130.73
13.95	16.56	132.72	130.73
13.96	15.53	135.24	131.09
13.97	16.31	134.73	131.82
13.98	16.21	135.37	132.55
13.99	16.21	135.37	132.55
14	16.12	138.15	133.19
14.01	16.04	140.7	134.01
14.02	16.03	141.72	134.55
14.03	16.02	142.74	135.01
14.04	16.02	142.74	135.01
14.05	16.02	142.74	135.01
14.06	15.92	129.44	149.31
14.07	16	134.16	138.74
14.08	15.98	136.23	135.01
14.09	15.9	137.99	131.64
14.1	15.52	141.95	125.63
14.11	15.22	143.96	122.89
14.12	14.45	147.98	116.97
14.13	14.04	149.8	114.51
14.14	13.67	151.39	112.87
14.15	13.36	152.48	111.51
14.16	12.86	153.43	110.05
14.17	12.86	153.43	110.05
14.18	12.52	153.15	110.05
14.19	12.36	152.54	111.05
14.2	12.35	151.65	112.05
14.21	12.39	150.31	113.15
14.22	12.53	146.92	115.33
14.23	12.61	144.85	116.33
14.24	12.82	139.33	118.16

14.25	12.93	136.04	119.16
14.26	13.1	132.95	120.34
14.27	13.26	129.95	121.34
14.28	13.58	124.49	122.89
14.29	13.74	122.45	123.62
14.3	14.09	119.19	125.63
14.31	14.28	118.17	126.26
14.32	14.61	116.83	127.08
14.33	14.61	116.83	127.08
14.34	14.87	116.29	127.63
14.35	15.12	117.37	128.18
14.36	15.26	117.95	128.81
14.37	15.49	118.36	129.82
14.38	15.91	120.05	131.09
14.39	16.01	121.52	130.91
14.4	16.02	122.8	130.36
14.41	15.94	124.68	129.54
14.42	15.71	128.26	128.18
14.43	15.58	130.46	127.72
14.44	15.45	134.73	127.99
14.45	15.47	136.49	128.36
14.46	15.5	137.92	129
14.47	15.7	139.42	130.55
14.48	15.79	140.06	131.09
14.49	15.88	140.54	131.73
14.5	15.98	141.79	132.37
14.51	16.04	142.26	132.82
14.52	16.08	142.65	133.19
14.53	16.09	142.46	133.19
14.54	16.09	142.46	133.19
14.55	15.87	139.87	132.73
14.56	15.85	139.01	133.1
14.57	15.94	137.83	134.37
14.58	15.94	137.83	134.37
14.59	16.18	137.41	136.1
14.6	16.18	137.41	136.1
14.61	16.55	136.97	138.47
14.62	16.68	137	139.02
14.63	16.93	136.87	140.38
14.64	17.03	136.94	140.75
14.65	17.1	137.7	140.84
14.66	17.15	139.71	141.11
14.67	17.22	141.28	141.57
14.68	17.42	144.66	143.03
14.69	17.57	146.13	143.85
14.7	17.73	147.91	144.67
14.71	18.08	150.75	146.31

14.72	18.29	152.03	147.31
14.73	18.74	154.23	149.59
14.74	18.96	155.13	150.31
14.75	19.09	156.11	150.59
14.76	19.19	157.23	150.86
14.77	19.38	159.69	151.5
14.78	19.48	160.87	152.05
14.79	19.83	163.01	153.96
14.8	20	163.58	154.78
14.81	20.26	165.46	155.87
14.82	20.36	166.8	156.33
14.83	20.49	169.9	157.06
14.84	20.57	171.72	157.42
14.85	20.66	175.04	157.97
14.86	20.69	176.86	158.33
14.87	20.75	178.17	158.97
14.88	20.75	178.17	158.97
14.89	20.88	182.63	160.24
14.9	20.88	182.63	160.24
14.91	20.82	186.05	160.88
14.92	20.79	188.63	161.52
14.93	20.79	190.26	161.98
14.94	20.81	192.49	162.61
14.95	20.92	195.59	164.25
14.96	20.99	196.29	164.98
14.97	21.07	196.8	165.8
14.98	20.77	159.98	132.46
14.99	20.77	159.98	132.46
15	20.79	166.01	125.72
15.01	20.69	169.96	123.62
15.02	20.45	174.11	122.26
15.03	20.16	178.33	121.34
15.04	20.16	178.33	121.34
15.05	20.16	178.33	121.34
15.06	18.91	168.66	124.17
15.07	18.64	170.09	122.35
15.08	17.93	173.92	120.43
15.09	17.62	176.63	119.98
15.1	17.36	178.55	120.16
15.11	17.08	181.23	121.44
15.12	17.08	181.9	123.8
15.13	17.13	181.45	125.17
15.14	17.24	180.21	126.08
15.15	17.37	176.98	127.63
15.16	17.41	175.07	127.9
15.17	17.51	170.99	128.27
15.18	17.55	169.96	128.45

15.19	17.59	169.01	128.63
15.2	17.59	169.01	128.63
15.21	17.35	168.4	127.27
15.22	16.78	167.54	125.26
15.23	16.44	168.27	124.17
15.24	15.83	170.38	123.99
15.25	15.58	172.36	124.17
15.26	15.33	174.46	123.99
15.27	14.88	175.1	122.53
15.28	14.65	176.35	122.16
15.29	14.41	180.43	121.07
15.3	14.09	194.03	122.16
15.31	14.06	200.03	124.62
15.32	14.22	200.28	130
15.33	14.89	196.45	139.11
15.34	15.2	197.7	139.75
15.35	15.51	194.57	135.65
15.36	15.36	193.64	134.46
15.37	15.41	194.41	135.74
15.38	15.41	194.41	135.74
15.39	15.52	188.66	137.2
15.4	15.6	183.5	135.83
15.41	15.71	174.3	134.01
15.42	15.78	168.43	130.09
15.43	15.81	157.2	131.18
15.44	15.82	151.39	134.1
15.45	15.8	146.6	136.01
15.46	15.64	138.72	138.56
15.47	15.56	133.65	139.56
15.48	15.4	125.96	141.2
15.49	15.29	123.02	141.93
15.5	15.13	120.6	142.02
15.51	14.84	116.03	142.02
15.52	14.71	115.17	142.3
15.53	14.51	115.87	143.85
15.54	14.38	117.15	142.84
15.55	14.27	117.53	143.03
15.56	14.19	118.68	143.94
15.57	14.28	118.33	147.13
15.58	14.27	117.6	147.03
15.59	14.13	115.08	147.49
15.6	14.25	114.69	150.22
15.61	14.19	111.15	145.3
15.62	14.01	115.01	149.04
15.63	14.13	116.77	150.95
15.64	13.87	113.58	149.59
15.65	13.74	110.86	148.86

15.66	13.58	109.68	148.31
15.67	13.25	107.07	147.4
15.68	13.13	106.62	147.58
15.69	13.02	106.04	147.67
15.7	12.84	105.63	148.77
15.71	12.83	105.53	149.95
15.72	12.82	104.26	151.04
15.73	12.83	103.08	152.05
15.74	12.89	102.34	152.77
15.75	12.98	101.54	154.41
15.76	13.06	99.15	155.05
15.77	13.14	97.68	156.14
15.78	13.31	96.53	157.78
15.79	13.4	97.2	158.33
15.8	13.59	95.39	159.7
15.81	13.68	94.56	160.52
15.82	13.77	94.24	160.79
15.83	13.94	92.07	161.61
15.84	14.03	91.4	161.98
15.85	14.18	91.27	162.98
15.86	14.3	90.12	163.52
15.87	14.38	90.34	163.34
15.88	14.58	90.79	163.89
15.89	14.67	91.36	163.89
15.9	14.87	92.23	161.52
15.91	14.98	92.35	161.98
15.92	15.08	92.9	162.34
15.93	15.24	93.73	162.34
15.94	15.36	94.11	162.7
15.95	15.52	94.68	161.16
15.96	15.61	95.35	161.06
15.97	15.77	96.82	159.79
15.98	15.83	97.62	160.7
15.99	15.9	98.61	160.79
16	15.99	100.91	157.6
16.01	16.06	101.99	155.6
16.02	16.11	102.73	156.33
16.03	16.17	103.65	157.06
16.04	16.17	103.65	157.06
16.05	16.17	103.65	157.06
16.06	16.41	96.44	142.21
16.07	16.48	97.84	141.11
16.08	16.58	99.66	140.2
16.09	16.82	102.15	140.84
16.1	16.95	103.17	141.3
16.11	17.21	104.32	141.75
16.12	17.34	105.21	141.75

16.13	17.34	106.81	141.3
16.14	17.31	107.7	140.93
16.15	17.2	109.39	140.93
16.16	17.19	110.19	141.39
16.17	17.2	112.52	142.12
16.18	17.18	113.03	142.02
16.19	16.91	116.77	141.93
16.2	16.8	117.98	142.12
16.21	16.74	118.59	142.48
16.22	16.61	119.57	143.03
16.23	16.54	120.4	143.39
16.24	16.52	121.74	144.76
16.25	16.5	122.38	145.49
16.26	16.54	124.3	147.03
16.27	16.54	124.3	147.03
16.28	16.69	124.43	149.04
16.29	16.69	123.79	149.86
16.3	16.75	123.34	150.5
16.31	16.8	122.73	151.68
16.32	16.8	122.89	151.86
16.33	16.78	122.83	152.14
16.34	16.69	122.45	152.23
16.35	16.62	123.05	152.23
16.36	16.36	124.39	151.59
16.37	16.2	124.97	151.23
16.38	15.82	126.66	150.22
16.39	15.66	127.55	149.77
16.4	15.51	128.16	149.68
16.41	15.26	130.55	150.5
16.42	15.21	131.73	151.59
16.43	15.24	132.91	154.32
16.44	15.35	132.31	156.33
16.45	15.35	132.31	156.33
16.46	15.72	132.6	160.24
16.47	15.93	131.29	161.34
16.48	15.99	130.17	161.79
16.49	16.07	128.06	162.16
16.5	16.11	126.98	162.16
16.51	16.1	125.77	162.16
16.52	16.01	125.06	161.52
16.53	15.95	124.9	160.97
16.54	15.8	125.51	160.52
16.55	15.72	126.31	160.61
16.56	15.67	126.95	161.06
16.57	15.67	127.87	161.98
16.58	15.66	128.35	162.52
16.59	15.72	129.18	164.16

16.6	15.79	129.4	165.07
16.61	16.02	128.96	166.89
16.62	16.02	128.96	166.89
16.63	16.28	127.74	168.63
16.64	16.44	127.07	169.81
16.65	16.72	125.83	171.08
16.66	16.84	125.64	171.27
16.67	16.97	125.26	171.72
16.68	17.07	124.87	172
16.69	17.11	124.87	172.54
16.7	17.28	124.84	173.18
16.71	17.34	125.13	173.45
16.72	17.39	126.21	173.18
16.73	17.38	127.36	173
16.74	17.34	128.1	173
16.75	17.34	128.77	173.09
16.76	17.29	130.33	173.73
16.77	17.31	130.81	174
16.78	17.24	131.89	174
16.79	17.24	131.89	174
16.8	17.25	133.9	174.73
16.81	17.33	135.47	176
16.82	17.39	136.07	176.46
16.83	17.46	136.87	177.19
16.84	17.49	137.35	177.74
16.85	17.53	137.76	178.19
16.86	17.69	138.37	179.56
16.87	17.81	138.72	180.56
16.88	18.12	138.34	182.84
16.89	18.3	137.8	183.47
16.9	18.52	138.5	184.29
16.91	18.64	138.53	184.75
16.92	18.74	138.08	185.57
16.93	19.02	137.32	186.48
16.94	19.23	137.41	186.94
16.95	19.29	137.35	186.75
16.96	19.32	137.35	186.75
16.97	19.43	138.02	186.3
16.98	19.43	138.28	184.2
16.99	19.45	139.11	181.56
17	19.48	139.55	179.92
17.01	19.51	141.95	177.19
17.02	19.54	142.55	174.18
17.03	19.54	142.55	174.18
17.04	19.54	142.55	174.18
17.05	19.62	129.44	151.68
17.06	19.82	133.68	150.59

17.07	19.88	135.5	150.13
17.08	19.94	136.9	149.49
17.09	20.08	140.22	149.49
17.1	20.09	141.05	149.04
17.11	20.08	143.22	148.95
17.12	19.99	144.98	148.49
17.13	19.69	148.14	147.31
17.14	19.49	149.44	146.85
17.15	19.37	150.66	147.03
17.16	19.29	151.87	147.76
17.17	19.37	152.48	150.41
17.18	19.41	153.53	151.23
17.19	19.2	155.95	150.31
17.2	18.93	157.39	149.13
17.21	18.59	159.02	148.04
17.22	18.02	161.64	147.31
17.23	17.79	162.46	147.67
17.24	17.51	163.04	149.49
17.25	17.45	162.59	150.41
17.26	17.43	161.95	151.5
17.27	17.43	161.95	151.5
17.28	17.37	158.09	153.96
17.29	17.34	157.3	154.6
17.3	17.24	156.11	154.96
17.31	17.09	156.78	154.87
17.32	16.8	156.85	154.96
17.33	16.69	156.62	155.05
17.34	16.6	155.67	155.6
17.35	16.4	152.92	155.87
17.36	16.27	151.65	156.14
17.37	16.2	150.27	155.96
17.38	16.11	148.3	157.69
17.39	16.07	148.36	158.24
17.4	16.06	147.88	158.24
17.41	15.8	147.18	157.15
17.42	15.63	146.83	156.42
17.43	15.35	143.96	156.05
17.44	15.22	142.42	155.69
17.45	15.22	142.42	155.69
17.46	14.72	141.28	154.14
17.47	14.59	140.06	154.69
17.48	14.51	139.26	155.23
17.49	14.36	137.73	156.14
17.5	14.3	137.35	156.42
17.51	14.26	136.42	156.51
17.52	14.14	132.72	156.69
17.53	14.1	130.58	157.06

17.54	13.95	125.38	156.6
17.55	13.9	123.15	156.78
17.56	13.86	119.26	157.51
17.57	13.83	117.82	157.6
17.58	13.83	116.26	158.06
17.59	13.84	112.97	158.79
17.6	13.86	111.15	159.33
17.61	13.94	108.63	160.52
17.62	13.99	107.8	160.97
17.63	13.99	107.8	160.97
17.64	14.3	104.9	163.34
17.65	14.39	104.42	164.25
17.66	14.48	103.71	164.07
17.67	14.55	102.41	162.98
17.68	14.55	101.7	162.16
17.69	14.55	101.7	162.16
17.7	14.37	101.38	159.88
17.71	14.3	101.54	159.79
17.72	14.23	101.64	159.33
17.73	14.2	101.96	159.15
17.74	14.12	102.69	158.88
17.75	14.08	102.6	158.7
17.76	14.04	102.37	158.51
17.77	13.98	102.31	158.6
17.78	13.89	102.41	158.06
17.79	13.86	102.63	157.78
17.8	13.77	103.46	157.51
17.81	13.74	103.97	158.15
17.82	13.74	103.87	158.6
17.83	13.86	103.2	159.97
17.84	13.9	103.01	160.34
17.85	14.03	103.01	161.06
17.86	14.08	102.82	161.34
17.87	14.08	102.82	161.34
17.88	14.22	102.44	161.79
17.89	14.39	102.15	163.07
17.9	14.53	101.86	164.25
17.91	14.93	101.58	167.9
17.92	15.2	101.03	169.99
17.93	15.47	100.62	170.99
17.94	16.03	99.73	172.91
17.95	16.34	98.83	173.91
17.96	16.63	98.03	174.18
17.97	17.16	98.35	175
17.98	17.3	99.63	172.91
17.99	17.19	101.86	172.45
18	17.59	106.52	175.18

18.01	17.85	107	175.73
18.02	18.28	107.74	174.46
18.03	18.28	107.74	174.46
18.04	18.28	107.74	174.46
18.05	18.02	105.37	153.23
18.06	18.02	107.7	150.04
18.07	18.05	114.21	147.03
18.08	18.08	117.47	146.4
18.09	18.1	122.32	146.21
18.1	18.05	124.71	146.4
18.11	17.99	128.16	146.31
18.12	17.99	129.88	146.49
18.13	18.05	130.3	147.22
18.14	18.31	132.4	148.58
18.15	18.35	136.17	148.13
18.16	18.39	138.56	148.67
18.17	18.41	137.45	149.4
18.18	18.33	137.8	148.86
18.19	18.29	139.49	147.58
18.2	18.32	142.81	147.13
18.21	18.4	142.81	148.13
18.22	18.39	142.17	149.77
18.23	18.33	142.39	150.31
18.24	18.22	143.06	150.68
18.25	17.97	143.6	151.13
18.26	17.85	143.22	150.95
18.27	17.77	141.47	151.41
18.28	17.5	138.15	150.22
18.29	17.3	136.81	150.22
18.3	16.89	134.64	150.41
18.31	16.54	134.67	149.13
18.32	16.32	135.63	149.22
18.33	15.72	131.19	147.58
18.34	15.44	132.12	147.4
18.35	15.12	132.5	146.12
18.36	14.38	132.66	143.57
18.37	13.97	131.92	142.02
18.38	13.51	131.57	140.38
18.39	12.53	129.31	136.47
18.4	12.01	129.08	134.74
18.41	11.5	130.68	133.64
18.42	10.73	134.22	134.65
18.43	10.73	134.22	134.65
18.44	10.25	135.34	137.92
18.45	9.95	134.77	140.93
18.46	9.84	133.9	142.84
18.47	9.75	132.31	144.12

18.48	9.62	127.68	146.4
18.49	9.62	127.68	146.4
18.5	9.51	123.44	148.49
18.51	9.46	118.17	149.4
18.52	9.43	115.65	148.95
18.53	9.41	112.27	148.86
18.54	9.44	110.38	149.31
18.55	9.47	108.63	149.59
18.56	9.52	107.19	150.13
18.57	9.62	104.61	150.68
18.58	9.66	103.68	150.59
18.59	9.72	102.18	150.5
18.6	9.73	101.51	149.95
18.61	9.74	101.48	149.59
18.62	9.72	101.67	148.86
18.63	9.65	102.79	147.4
18.64	9.6	103.36	146.21
18.65	9.41	104.83	144.3
18.66	9.32	105.28	143.57
18.67	9.22	105.18	143.21
18.68	9.12	105.15	143.12
18.69	9.1	104.67	143.39
18.7	9.07	104.45	143.57
18.71	9.04	104.16	143.76
18.72	9.03	103.91	143.85
18.73	9.01	103.14	144.03
18.74	9.01	102.28	144.12
18.75	9.01	101.45	144.39
18.76	9.03	99.57	144.94
18.77	9.06	98.7	145.39
18.78	9.09	97.87	145.58
18.79	9.15	96.25	145.94
18.8	9.21	95.48	146.31
18.81	9.26	94.65	146.4
18.82	9.34	93.12	146.4
18.83	9.37	92.86	146.31
18.84	9.42	92.32	146.03
18.85	9.44	91.97	146.03
18.86	9.44	91.97	146.03
18.87	9.52	91.75	146.12
18.88	9.57	92	145.76
18.89	9.6	92.13	145.76
18.9	9.66	92.55	145.85
18.91	9.68	92.58	145.94
18.92	9.72	92.74	146.21
18.93	9.86	92.74	147.31
18.94	9.94	92.7	148.04

18.95	10.05	92.86	149.04
18.96	10.32	93.25	150.68
18.97	10.44	93.5	151.23
18.98	10.56	93.89	151.68
18.99	10.83	94.4	152.5
19	10.94	94.62	152.68
19.01	11.11	95.1	152.32
19.02	11.18	95.86	152.05
19.03	11.18	95.86	152.05
19.04	11.18	95.86	152.05
19.05	11.38	86.1	160.43
19.06	11.48	88.08	160.61
19.07	11.58	89.71	160.61
19.08	11.71	91.59	161.06
19.09	11.98	94.68	161.98
19.1	12.11	96.18	162.34
19.11	12.36	98.64	162.52
19.12	12.46	99.57	162.07
19.13	12.46	99.57	162.07
19.14	12.69	102.88	162.25
19.15	12.76	103.68	162.34
19.16	12.89	105.09	162.25
19.17	12.93	106.52	162.25
19.18	12.96	107.64	162.43
19.19	12.97	108.79	162.25
19.2	13.08	110.58	163.34
19.21	13.17	111.41	164.16
19.22	13.43	112.08	166.26
19.23	13.59	112.71	167.53
19.24	13.98	113.86	169.35
19.25	14.2	114.63	169.9
19.26	14.4	115.04	170.27
19.27	14.71	115.91	168.81
19.28	14.7	116.73	167.53
19.29	14.56	117.6	165.35
19.3	14.15	119.64	162.16
19.31	14.15	119.64	162.16
19.32	13.71	121.3	161.25
19.33	13.55	122.13	161.43
19.34	13.26	124.2	162.07
19.35	13.17	125.16	162.43
19.36	13.04	126.56	164.43
19.37	13.01	127.07	165.53
19.38	13.03	127.17	166.17
19.39	13.06	126.82	167.62
19.4	13.1	126.56	168.35
19.41	13.19	126.12	169.81

19.42	13.44	125.61	172.63
19.43	13.6	124.71	173.27
19.44	13.74	124.04	173.36
19.45	13.92	122.32	172.82
19.46	13.96	121.59	172.27
19.47	14.1	120.72	173.45
19.48	14.2	120.28	173.82
19.49	14.31	120.02	174.18
19.5	14.31	120.02	174.18
19.51	14.49	121.2	174.46
19.52	14.53	121.87	174.82
19.53	14.69	123.31	176.28
19.54	14.78	124.17	176.73
19.55	14.88	125.51	177.28
19.56	15.23	127.9	179.47
19.57	15.42	128.99	179.83
19.58	15.72	130.2	179.83
19.59	15.85	131.16	179.74
19.6	15.97	132.37	178.74
19.61	15.95	133.39	178.37
19.62	15.95	134.51	177.74
19.63	15.84	136.84	176.64
19.64	15.78	137.86	176.46
19.65	15.64	139.78	176.46
19.66	15.59	140.86	176.73
19.67	15.52	142.07	176.64
19.68	15.45	142.9	176.28
19.69	15.3	143.76	175.82
19.7	15.19	144.12	175.37
19.71	15.07	145.62	176.19
19.72	15.06	146.57	177.37
19.73	15.08	147.34	178.19
19.74	15.2	148.04	180.29
19.75	15.33	147.79	181.65
19.76	15.72	146.38	184.2
19.77	15.93	145.36	184.84
19.78	16.33	143.92	185.84
19.79	16.53	143.32	186.57
19.8	16.77	143	187.21
19.81	17.15	142.74	188.21
19.82	17.34	142.33	188.21
19.83	17.58	141.69	187.76
19.84	17.63	142.04	187.3
19.85	17.68	142.01	187.39
19.86	17.79	143.16	187.39
19.87	17.87	143.89	188.03
19.88	18.14	145.2	190.31

19.89	18.34	145.55	191.58
19.9	18.75	146.86	193.22
19.91	18.75	146.86	193.22
19.92	19.11	149.38	193.5
19.93	19.34	151.33	193.5
19.94	19.45	152.06	193.86
19.95	19.82	153.82	196.5
19.96	20.1	154.14	198.51
19.97	20.41	154.42	199.6
19.98	21.03	154.9	201.88
19.99	21.28	154.93	202.42
20	21.71	155.89	203.61
20.01	21.94	156.4	204.52
20.02	22.34	159.18	206.07

U2	Tilt	a Factor
	10977	278275
	31334	2003
		0.8
	Tilt [°]	Speed [cm/sec]
	0.62	0
	0.78	1.6
	0.8	1.6
	0.77	1.6
	0.87	1.6
	1.07	1.5
	1.1	1.6
	1.14	1.5
	1.07	1.7
	1.05	1.7
	1.05	1.8
	1.03	2
	1.03	1.7
	0.95	2

0.94	1.7
0.94	1.8
0.94	1.7
0.94	1.8
0.94	1.7
1.01	1.8
1.01	1.8
1.01	1.8
1.01	2.2
1.01	2.2
1.01	1.8
1.01	1.7
1.01	1.8
1.01	1.7
1.01	1.8
1.09	1.7
1.09	1.8
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Company information:

Name: G.S.C. Indagini Geognostiche
Address: Via Carpi 21
Zip code: 42018
City: San Martino in Rio
P.IVA: 02322840204
E-Mail: gsc.inge@gmail.com
Phone number: +393334273452
Fax number:

Site information:

Name: Finale Emilia (MO) - Microzonazione
Date: 10/07/2020
Commissioner: Prof. Caputo Riccardo
Locality:

Test information:

Name: CPTU03
Location: MASSA FINALESE_PARCO
Date: 10/07/2020 13:26:53
Prehole mode:
Prehole depth [cm]: 0
Hydrostatic line [cm]: 270
Ground level [m]: 0
Latitude: 44.849593
Longitude: 11.21942
Operator:
Comments:
Probe code: MKJ608

	Qc	Fs	Speed	
Factors:	188220		31336	10
Zeros:	3957		7828	0

Depth [m]	Qc [MPa]	Fs [KPa]	U2 [KPa]
0.01	0.22	0.03	0.36
0.02	0.75	3.38	0
0.03	0.75	3.38	0
0.04	2.48	12.64	-0.09
0.05	2.48	12.64	-0.09
0.06	3.66	12.16	-0.18
0.07	4.3	12.57	-0.09
0.08	4.3	12.57	-0.09
0.09	4.88	16.59	-0.18
0.1	5.22	18.48	0
0.11	5.2	20.26	0
0.12	5.35	22.24	0.09
0.13	5.27	24.89	0
0.14	5.06	30.03	0.46

0.15	5	41.77	-0.18
0.16	5	41.77	-0.18
0.17	5.1	55.24	-0.27
0.18	5.16	55.88	-0.46
0.19	4.91	56.48	-0.27
0.2	4.9	55.65	-0.27
0.21	5.17	67.02	-0.18
0.22	5.17	67.02	-0.18
0.23	4.86	78.38	-0.27
0.24	4.64	85.46	-0.18
0.25	4.61	91.01	-0.18
0.26	4.49	92.32	-0.27
0.27	4.55	93.31	-0.18
0.28	4.71	84.98	-0.18
0.29	4.78	79.59	-0.18
0.3	4.71	79.84	-0.27
0.31	4.42	93.89	-0.36
0.32	4.43	101.51	-0.18
0.33	4.33	98.96	-0.18
0.34	4.4	95.48	-0.18
0.35	4.44	97.2	-0.18
0.36	4.45	94.65	-0.09
0.37	4.34	94.62	0
0.38	4.27	101.45	-0.18
0.39	4.28	107.96	0.18
0.4	4.4	108.88	0
0.41	4.28	117.69	-0.09
0.42	4.49	123.63	-0.09
0.43	4.54	127.94	-0.09
0.44	4.59	132.95	0.09
0.45	4.81	137.73	0.18
0.46	4.92	136.49	0.09
0.47	5.06	135.66	-0.36
0.48	5.17	135.91	-1.18
0.49	5.4	132.69	-2
0.5	5.78	125	1.18
0.51	6	120.76	1.46
0.52	5.34	128.73	0
0.53	4.99	132.05	-0.27
0.54	4.28	150.05	-0.46
0.55	4.01	156.85	-0.36
0.56	3.91	171.46	-0.09
0.57	3.98	169.74	-0.09
0.58	4.07	161.95	-0.18
0.59	4.22	152.16	-0.27
0.6	4.72	136.07	-0.18
0.61	4.79	129.47	-0.73

0.62	4.58	124.39	-0.36
0.63	4.52	119.13	-0.09
0.64	4.62	117.25	-0.27
0.65	4.43	118.75	-0.09
0.66	4.33	122.26	-0.27
0.67	4.02	124.27	-0.27
0.68	3.98	126.21	-0.09
0.69	3.91	121.46	0
0.7	3.81	124.78	-0.46
0.71	3.08	154.14	0
0.72	3.06	166.36	-0.09
0.73	3.53	167.03	-0.18
0.74	3.75	165.82	-0.36
0.75	3.58	170.99	-0.27
0.76	3.39	172.71	-0.27
0.77	3.33	171.37	-0.18
0.78	3.76	158.6	0
0.79	3.91	157.1	0
0.8	4.03	151.33	0
0.81	4.09	150.72	-0.27
0.82	3.91	157.1	-0.46
0.83	3.77	161.64	-0.46
0.84	3.48	166.58	-0.18
0.85	3.44	163.07	-0.27
0.86	3.26	163.42	-0.36
0.87	3.21	172.61	-0.27
0.88	3.22	172.52	-0.36
0.89	3.29	166.77	-0.36
0.9	3.3	167.32	-0.18
0.91	3.41	167.16	-0.18
0.92	3.55	168.43	-0.27
0.93	3.6	164.73	-0.27
0.94	3.66	160.42	-0.36
0.95	3.8	157.3	-0.91
0.96	3.91	157.04	-0.91
0.97	4.05	156.69	-0.36
0.98	4.4	154.52	-0.55
0.99	4.55	155.44	-2.92
1	4.74	164.09	-7.93
1.01	4.77	168.97	-9.11
1.02	4.83	180.81	-9.66
1.03	4.83	180.81	-9.66
1.04	4.83	193.32	-4.28
1.05	4.8	197.95	-1.28
1.06	4.76	204.78	-1.55
1.07	4.76	204.78	-1.55
1.08	4.76	204.78	-1.55

1.09	1.84	20.17	-0.27
1.1	1.84	20.65	0.09
1.11	4.38	205.39	-3.46
1.12	4.36	212.34	-1.55
1.13	4.31	213.97	-2.73
1.14	4.19	219.4	-8.2
1.15	4.13	220	-7.11
1.16	4.05	220.07	-11.11
1.17	3.84	220.93	-17.86
1.18	3.74	221.34	-8.02
1.19	3.66	219.52	-6.29
1.2	3.47	221.53	-1.91
1.21	3.4	225.68	-2.92
1.22	3.32	230.05	-3.19
1.23	3.22	240.91	-12.75
1.24	3.21	246.81	-13.57
1.25	3.2	257.95	-7.74
1.26	3.17	263.21	-2.64
1.27	3.14	262.89	1.82
1.28	3.08	256.96	0.46
1.29	2.91	248.47	-36.26
1.3	2.83	242.31	-38.54
1.31	2.79	234.71	-37.08
1.32	2.75	224.98	-30.7
1.33	2.74	220.58	-28.15
1.34	2.74	215.76	-25.42
1.35	2.73	212.76	-23.69
1.36	2.71	203.73	-21.14
1.37	2.71	203.73	-21.14
1.38	2.68	191.03	-20.5
1.39	2.63	176.63	-21.5
1.4	2.6	174.11	-21.86
1.41	2.59	174.21	-21.5
1.42	2.57	174.24	-20.86
1.43	2.58	175.23	-18.22
1.44	2.54	177.21	-14.67
1.45	2.51	178.2	-12.66
1.46	2.43	177.24	-10.11
1.47	2.43	177.24	-10.11
1.48	2.27	174.24	-8.2
1.49	2.22	172.64	-5.01
1.5	2.18	171.69	-4.55
1.51	2.11	168.75	-1
1.52	2.06	167.16	0.64
1.53	1.99	166.01	3.46
1.54	1.99	166.01	3.46
1.55	1.86	163.42	4.01

1.56	1.86	163.42	4.01
1.57	1.88	152.76	4.1
1.58	1.88	148.62	5.1
1.59	1.87	144.37	6.29
1.6	1.88	142.04	8.56
1.61	1.88	137.83	15.21
1.62	1.84	128.35	25.78
1.63	1.82	124.74	23.59
1.64	1.82	123.28	22.05
1.65	1.81	121.78	22.23
1.66	1.81	121.78	22.23
1.67	1.82	119.42	22.41
1.68	1.83	117.21	26.33
1.69	1.86	118.65	27.33
1.7	1.89	119.16	28.51
1.71	1.91	119.73	29.06
1.72	1.92	120.44	29.79
1.73	1.91	120.92	30.52
1.74	1.9	120.85	29.15
1.75	1.89	121.04	26.78
1.76	1.82	121.07	21.41
1.77	1.76	121.36	20.22
1.78	1.63	122.77	21.5
1.79	1.63	122.77	21.5
1.8	1.49	124.55	26.15
1.81	1.43	125.03	27.69
1.82	1.4	123.79	29.88
1.83	1.46	122.06	36.17
1.84	1.47	122.7	38.99
1.85	1.45	122.06	41.36
1.86	1.42	119.8	40.81
1.87	1.33	107.26	33.98
1.88	1.29	101.51	28.15
1.89	1.24	97.72	26.97
1.9	1.1	92	25.78
1.91	1.05	87.41	27.24
1.92	1.01	82.46	27.33
1.93	1	77.55	27.97
1.94	1.03	71.48	32.8
1.95	1.05	70.11	33.98
1.96	1.09	67.02	33.89
1.97	1.28	57.28	34.16
1.98	1.36	53.96	33.62
1.99	1.42	51.92	32.98
2	1.42	51.92	32.98
2.01	1.57	50.33	27.69
2.02	1.57	50.64	26.97

2.03	1.55	50.2	26.33
2.04	1.54	50.52	25.6
2.05	1.56	50.93	24.51
2.06	1.6	52.27	24.14
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2.08	1.84	58.37	23.87
2.09	1.84	58.37	23.87
2.1	1.84	58.37	23.87
2.11	1.88	62.2	2.37
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2.14	1.48	66.03	1.55
2.15	1.28	72.5	11.66
2.16	1.16	76.01	15.21
2.17	1.02	78.25	22.05
2.18	1.02	78.25	22.05
2.19	0.95	77.93	25.33
2.2	0.96	75.92	26.42
2.21	0.98	73.81	27.79
2.22	1.03	70.81	28.15
2.23	1.07	67.85	28.61
2.24	1.1	64.33	30.06
2.25	1.08	62.1	32.43
2.26	1.01	57.38	32.61
2.27	0.99	54.95	34.62
2.28	0.97	51.89	44.37
2.29	0.97	50.33	56.12
2.3	0.96	48.03	80.44
2.31	0.97	45.92	120.89
2.32	0.98	43.66	156.51
2.33	0.96	39.19	156.14
2.34	0.95	38.17	147.95
2.35	0.95	37.31	139.84
2.36	0.96	37.62	126.99
2.37	0.96	38.52	124.26
2.38	0.94	39.83	120.43
2.39	0.92	41.29	117.25
2.4	0.89	39.35	110.23
2.41	0.89	38.26	108.59
2.42	0.88	37.94	110.23
2.43	0.87	38.96	110.69
2.44	0.84	39.67	108.32
2.45	0.84	38.96	107.41
2.46	0.84	37.75	106.4
2.47	0.88	37.18	109.23
2.48	0.88	37.94	112.05
2.49	0.88	38.65	112.51

2.5	0.89	37.66	111.6
2.51	0.92	35.9	112.42
2.52	1.01	35.07	118.7
2.53	1.05	35.49	126.26
2.54	1.08	36.03	122.35
2.55	1.09	35.1	119.16
2.56	1.09	34.91	116.15
2.57	1.1	35.07	113.33
2.58	1.14	36.76	108.96
2.59	1.16	38.42	108.04
2.6	1.15	40.98	106.5
2.61	1.14	43.18	104.86
2.62	1.13	44.61	104.67
2.63	1.04	48.7	107.04
2.64	1.02	48.92	105.31
2.65	1.03	48.44	102.94
2.66	1.04	50.45	99.3
2.67	1.04	52.75	98.84
2.68	1.06	54.89	98.75
2.69	1.06	54.89	98.75
2.7	1.22	56.29	98.66
2.71	1.26	54.92	98.66
2.72	1.28	54.12	98.39
2.73	1.23	52.37	94.38
2.74	1.16	50.87	90.28
2.75	1.12	51.95	88.73
2.76	1.08	54.22	92.28
2.77	1.02	56.74	94.29
2.78	1.04	56.48	94.38
2.79	1.14	54.67	95.38
2.8	1.17	53.77	96.02
2.81	1.17	53.77	96.02
2.82	1.28	52.14	97.11
2.83	1.34	51.83	96.02
2.84	1.4	54.44	73.88
2.85	1.34	56.77	62.13
2.86	1.2	58.59	44.55
2.87	1.2	58.59	44.55
2.88	1.12	56.04	33.16
2.89	1.1	55.78	38.9
2.9	1.09	56.23	42.63
2.91	1.13	56.1	47.46
2.92	1.16	55.46	47.83
2.93	1.21	57.82	47.74
2.94	1.21	57.82	47.74
2.95	1.2	60.09	48.37
2.96	1.2	60.09	48.37

2.97	1.27	62.93	39.45
2.98	1.3	63.25	30.06
2.99	1.33	63.6	22.59
3	1.37	64.27	17.95
3.01	1.4	64.02	15.49
3.02	1.5	63.6	8.47
3.03	1.54	62.9	-1
3.04	1.57	63.44	-7.2
3.05	1.63	66.22	-34.8
3.06	1.66	67.08	-40.36
3.07	1.66	67.08	-40.36
3.08	1.66	67.08	-40.36
3.09	1.74	54.31	-49.28
3.1	1.72	53.36	-48.83
3.11	1.68	52.66	-51.65
3.12	1.63	52.14	-54.93
3.13	1.62	52.43	-56.21
3.14	1.59	55.02	-57.12
3.15	1.58	56.55	-57.03
3.16	1.58	58.21	-51.56
3.17	1.56	59.64	-52.56
3.18	1.47	61.05	-54.11
3.19	1.38	61.69	-55.39
3.2	1.26	63.22	-56.3
3.21	1.09	66.12	-55.21
3.22	1.04	66.38	-53.57
3.23	0.98	66.09	-52.93
3.24	0.93	64.08	-52.38
3.25	0.84	60.79	-51.11
3.26	0.84	59.1	-50.01
3.27	0.85	58.94	-48.46
3.28	0.87	57.92	-47.19
3.29	0.91	56.01	-46.55
3.3	0.98	54.7	-45.73
3.31	1.01	54.31	-44.46
3.32	1.01	53.42	-41.63
3.33	0.97	50.8	-39.99
3.34	0.95	48.03	-38.81
3.35	0.88	45.76	-35.07
3.36	0.83	45.32	-34.53
3.37	0.83	45.95	-32.43
3.38	0.84	46.18	-22.59
3.39	0.91	45.79	18.4
3.4	0.93	43.08	40.27
3.41	0.96	41.26	45.91
3.42	0.98	40.82	49.28
3.43	0.98	43.69	47.83

3.44	0.96	45.47	45.64
3.45	0.94	46.4	43.45
3.46	0.94	43.15	40.17
3.47	0.91	42.48	38.72
3.48	0.9	41.39	37.17
3.49	0.89	39.89	35.35
3.5	0.86	37.69	31.79
3.51	0.85	37.72	30.43
3.52	0.84	38.14	29.33
3.53	0.83	39.12	27.51
3.54	0.85	39.28	26.87
3.55	0.88	40.4	26.69
3.56	0.9	40.5	27.06
3.57	0.87	39.38	25.69
3.58	0.84	38.58	25.33
3.59	0.83	38.1	24.96
3.6	0.79	38.26	25.23
3.61	0.79	38.26	25.23
3.62	0.8	38.68	25.33
3.63	0.8	39.41	25.05
3.64	0.81	39.86	23.59
3.65	0.82	39.92	22.59
3.66	0.82	40.15	21.59
3.67	0.82	40.69	20.68
3.68	0.79	42.28	19.13
3.69	0.76	43.4	18.49
3.7	0.73	44.13	17.67
3.71	0.68	45.06	15.4
3.72	0.65	45.67	14.3
3.73	0.62	45.95	13.48
3.74	0.6	46.37	12.75
3.75	0.56	47.01	11.39
3.76	0.55	47.2	10.93
3.77	0.54	47.23	10.48
3.78	0.52	48.41	9.84
3.79	0.5	48.99	9.57
3.8	0.49	49.4	9.38
3.81	0.49	48.67	9.29
3.82	0.5	44.61	9.38
3.83	0.5	43.15	9.38
3.84	0.5	41.29	9.38
3.85	0.51	39.12	9.11
3.86	0.52	37.46	8.93
3.87	0.52	35.74	8.65
3.88	0.52	34.53	8.38
3.89	0.53	32.3	8.02
3.9	0.53	31.59	7.83

3.91	0.52	31.02	7.65
3.92	0.5	30.32	7.01
3.93	0.49	30.19	6.74
3.94	0.48	30.35	6.65
3.95	0.46	30.51	6.47
3.96	0.44	30.73	6.1
3.97	0.43	30.83	6.01
3.98	0.42	30.83	6.1
3.99	0.4	30.64	6.1
4	0.4	30.64	6.1
4.01	0.36	30.19	5.74
4.02	0.36	29.45	5.74
4.03	0.34	27.6	5.74
4.04	0.32	27.03	5.92
4.05	0.31	26.04	6.01
4.06	0.31	26.04	6.01
4.07	0.31	26.04	6.01
4.08	0.33	17.81	59.03
4.09	0.31	17.68	58.58
4.1	0.3	16.95	58.39
4.11	0.29	16.31	58.21
4.12	0.28	15.83	58.49
4.13	0.27	15.48	60.4
4.14	0.26	15.48	61.22
4.15	0.25	15.22	61.95
4.16	0.25	14.81	66.14
4.17	0.25	14.33	70.33
4.18	0.25	14.01	71.24
4.19	0.25	13.75	71.51
4.2	0.25	13.47	75.43
4.21	0.25	13.18	79.8
4.22	0.26	12.41	81.53
4.23	0.26	11.74	82.9
4.24	0.26	11.55	85.63
4.25	0.26	11.55	85.63
4.26	0.26	11.55	99.66
4.27	0.26	11.81	100.21
4.28	0.26	12.03	101.39
4.29	0.26	12.29	101.3
4.3	0.26	12.89	111.87
4.31	0.26	13.12	117.97
4.32	0.26	13.28	120.07
4.33	0.29	13.02	119.7
4.34	0.31	12.67	118.43
4.35	0.32	12.38	118.7
4.36	0.33	12.09	120.8
4.37	0.36	11.55	121.44

4.38	0.38	11.2	126.81
4.39	0.4	11.23	131.64
4.4	0.44	12.19	131.37
4.41	0.46	12.38	131.73
4.42	0.47	12.35	131.46
4.43	0.48	12.03	133.01
4.44	0.51	11.78	136.01
4.45	0.55	12.16	143.03
4.46	0.58	12.76	146.12
4.47	0.62	13.63	154.5
4.48	0.64	13.88	153.59
4.49	0.66	14.46	151.5
4.5	0.67	15.29	150.22
4.51	0.66	15.96	144.48
4.52	0.65	17.33	133.83
4.53	0.65	18.16	129.45
4.54	0.65	19.08	126.54
4.55	0.66	20.2	123.44
4.56	0.65	23.3	119.34
4.57	0.65	25.11	118.43
4.58	0.65	26.42	118.16
4.59	0.68	28.4	120.25
4.6	0.72	28.43	123.99
4.61	0.79	28.18	129.91
4.62	0.79	28.18	129.91
4.63	1	30.89	139.29
4.64	1.03	31.05	136.38
4.65	1.04	30.92	132.55
4.66	1.04	32.33	123.9
4.67	1.04	33.67	120.34
4.68	1.02	35.33	117.25
4.69	1.01	36.92	114.42
4.7	0.97	41.58	109.14
4.71	0.94	44.33	107.77
4.72	0.92	47.2	107.32
4.73	0.92	48.51	108.14
4.74	0.95	49.02	110.69
4.75	0.98	49.75	111.87
4.76	1	50.26	112.51
4.77	1.07	51.35	112.78
4.78	1.1	52.08	112.69
4.79	1.12	53.13	112.33
4.8	1.15	52.94	110.87
4.81	1.15	52.94	110.87
4.82	1.15	52.11	108.59
4.83	1.14	52.46	106.4
4.84	1.13	52.43	104.76

4.85	1.12	55.08	102.58
4.86	1.12	55.65	102.85
4.87	1.13	56.29	103.22
4.88	1.13	56.29	103.22
4.89	1.16	58.5	103.67
4.9	1.19	60.09	104.58
4.91	1.2	63.6	105.77
4.92	1.19	65.42	105.13
4.93	1.16	67.18	104.86
4.94	1.13	68.52	106.22
4.95	1.1	65.93	105.86
4.96	1.08	64.24	104.22
4.97	1.07	62.8	102.21
4.98	0.98	63.31	100.48
4.99	0.94	63.09	98.66
5	0.91	62.45	95.75
5.01	0.87	62.52	92.74
5.02	0.82	62.87	89.46
5.03	0.74	62.93	87.27
5.04	0.72	63.38	87.09
5.05	0.69	63.63	87.27
5.06	0.69	63.63	87.27
5.07	0.69	63.63	87.27
5.08	0.72	55.65	103.85
5.09	0.73	55.81	102.94
5.1	0.76	55.81	105.22
5.11	0.8	54.63	107.95
5.12	0.85	51.03	111.14
5.13	0.85	51.03	111.14
5.14	0.85	48.51	113.97
5.15	0.84	46.82	114.24
5.16	0.81	45.67	112.51
5.17	0.71	42.95	103.67
5.18	0.67	42.03	100.76
5.19	0.6	41.17	98.02
5.2	0.54	38.9	96.93
5.21	0.49	32.01	100.67
5.22	0.48	28.53	117.7
5.23	0.47	26.1	140.48
5.24	0.48	23.36	168.99
5.25	0.49	22.53	174.36
5.26	0.51	22.18	176.19
5.27	0.53	21.64	174.73
5.28	0.55	20.52	167.53
5.29	0.55	20.2	163.07
5.3	0.54	19.91	158.6
5.31	0.53	18.54	150.86

5.32	0.52	18.29	147.49
5.33	0.49	17.39	144.03
5.34	0.49	16.12	144.94
5.35	0.49	15.16	147.22
5.36	0.49	14.49	152.41
5.37	0.5	14.04	156.87
5.38	0.52	14.07	165.62
5.39	0.53	14.33	174.82
5.4	0.53	14.33	174.82
5.41	0.62	13.98	207.52
5.42	0.64	13.24	219.91
5.43	0.69	12.19	221.83
5.44	0.7	12.13	219.82
5.45	0.7	11.97	224.47
5.46	0.71	11.9	229.66
5.47	0.73	11.94	238.04
5.48	0.75	12.09	253.8
5.49	0.86	12.64	281.95
5.5	0.9	12.61	285.32
5.51	0.92	12.99	285.41
5.52	0.95	13.95	286.6
5.53	0.95	16.15	263.73
5.54	0.96	16.47	250.8
5.55	0.98	16.82	236.04
5.56	0.98	20.77	237.5
5.57	0.98	24.09	234.95
5.58	0.97	28.4	231.67
5.59	0.94	37.34	230.03
5.6	0.92	40.88	229.21
5.61	0.92	43.69	226.56
5.62	0.91	48.79	224.83
5.63	0.91	51.31	224.74
5.64	0.91	53.55	224.47
5.65	0.91	53.55	224.47
5.66	0.94	57.6	222.37
5.67	0.94	58.97	222.37
5.68	0.96	62.1	221.65
5.69	0.97	62.07	220.92
5.7	0.98	60.95	219.46
5.71	0.98	60.22	218.27
5.72	0.98	60.22	218.27
5.73	0.98	59.23	216.82
5.74	0.98	59.74	216.54
5.75	0.96	60.63	213.72
5.76	0.95	60.89	211.53
5.77	0.94	61.05	209.44
5.78	0.94	61.05	209.44

5.79	0.94	61.65	204.43
5.8	0.92	63.98	200.33
5.81	0.92	65.04	198.96
5.82	0.9	67.62	197.69
5.83	0.9	68.93	198.78
5.84	0.91	69.79	200.33
5.85	0.94	69.73	202.7
5.86	1	69.6	209.89
5.87	1.05	69.79	213.72
5.88	1.08	69.38	216.82
5.89	1.14	68.26	222.28
5.9	1.18	67.05	223.01
5.91	1.22	65.52	222.19
5.92	1.24	64.24	219.37
5.93	1.28	63.86	216.54
5.94	1.31	64.69	209.89
5.95	1.32	64.53	188.39
5.96	1.35	67.37	174.18
5.97	1.35	67.37	174.18
5.98	1.33	73.49	153.23
5.99	1.29	77.1	144.58
6	1.25	84.25	133.83
6.01	1.24	87.02	130.55
6.02	1.24	90.06	127.63
6.03	1.25	96.5	134.28
6.04	1.25	96.5	134.28
6.05	1.23	103.33	138.65
6.06	1.23	103.33	138.65
6.07	1.23	103.33	138.65
6.08	1.23	103.84	161.52
6.09	1.24	105.44	157.6
6.1	1.24	105.98	154.05
6.11	1.23	105.82	151.23
6.12	1.22	105.25	151.5
6.13	1.23	103.91	151.59
6.14	1.23	102.31	148.58
6.15	1.24	101.07	147.4
6.16	1.25	100.46	147.58
6.17	1.28	98.83	150.41
6.18	1.25	99.15	149.13
6.19	1.25	98.86	146.85
6.2	1.25	97.78	144.3
6.21	1.26	97.62	140.66
6.22	1.28	97.97	138.38
6.23	1.26	98.9	137.38
6.24	1.27	101.93	138.2
6.25	1.28	102.34	138.93

6.26	1.29	102.41	141.02
6.27	1.29	102.41	141.02
6.28	1.3	105.6	138.93
6.29	1.27	106.68	138.2
6.3	1.28	107.29	137.65
6.31	1.29	107.61	137.92
6.32	1.29	109.14	137.92
6.33	1.28	110.45	137.29
6.34	1.24	111.25	135.28
6.35	1.22	111.15	134.19
6.36	1.2	111.41	133.01
6.37	1.17	109.68	132.73
6.38	1.16	109.84	134.01
6.39	1.15	109.84	135.1
6.4	1.14	108.72	135.92
6.41	1.14	106.3	134.92
6.42	1.13	105.47	134.37
6.43	1.14	104.86	134.55
6.44	1.1	103.78	134.65
6.45	1.09	102.85	134.46
6.46	1.09	102.85	134.46
6.47	1.09	100.24	134.19
6.48	1.15	97.62	136.28
6.49	1.12	97.2	137.01
6.5	1.11	94.2	138.02
6.51	1.09	94.84	137.65
6.52	1.09	94.84	137.65
6.53	1.1	90.31	137.38
6.54	1.11	86.19	136.19
6.55	1.11	85.17	136.47
6.56	1.11	83.9	137.47
6.57	1.11	82.17	137.29
6.58	1.11	81.44	136.83
6.59	1.11	81.12	136.92
6.6	1.11	81.25	137.74
6.61	1.1	81.22	139.2
6.62	1.09	81.66	140.11
6.63	1.08	80.99	140.48
6.64	1.08	81.38	141.11
6.65	1.07	82.21	141.39
6.66	1.09	83.07	141.75
6.67	1.09	82.84	139.84
6.68	1.09	82.75	139.11
6.69	1.08	83.16	138.56
6.7	1.06	83.51	137.83
6.71	1.06	83.51	137.83
6.72	1.05	83.04	136.83

6.73	1.05	81.98	136.47
6.74	1.06	80.39	137.92
6.75	1.06	79.75	138.56
6.76	1.07	79.05	138.56
6.77	1.07	77.48	137.56
6.78	1.07	76.97	137.29
6.79	1.07	76.59	136.83
6.8	1.06	76.37	135.83
6.81	1.06	76.24	134.74
6.82	1.06	76.37	134.83
6.83	1.05	76.81	134.55
6.84	1.05	76.91	134.19
6.85	1.03	76.91	134.01
6.86	1.03	76.46	133.83
6.87	1	76.27	133.83
6.88	1	75.73	133.73
6.89	1	74.87	133.55
6.9	1	74.51	133.37
6.91	0.99	74.87	131.91
6.92	0.98	75.5	131.27
6.93	0.97	75.86	131
6.94	0.96	76.27	130.64
6.95	0.95	75.95	131.09
6.96	0.95	75.47	131.46
6.97	0.95	75.47	131.46
6.98	0.95	71.9	131.91
6.99	0.95	70.94	132.73
7	0.95	69.86	134.01
7.01	0.94	67.37	134.83
7.02	0.96	65.87	135.37
7.03	0.96	64.3	134.74
7.04	0.96	64.3	134.74
7.05	0.99	60.03	133.83
7.06	0.99	60.03	133.83
7.07	0.99	60.03	133.83
7.08	1.01	57.54	152.32
7.09	1	58.88	148.77
7.1	1	59.42	145.94
7.11	1	59.42	145.94
7.12	0.99	60.57	140.75
7.13	1	60.76	138.84
7.14	0.99	62.16	136.92
7.15	0.98	63.25	136.83
7.16	0.98	64.27	136.65
7.17	0.97	64.85	136.01
7.18	0.97	65.83	134.01
7.19	0.97	66.57	133.28

7.2	0.97	67.37	131.82
7.21	0.95	69.79	130.27
7.22	0.94	70.69	129.82
7.23	0.94	71.42	129.09
7.24	0.92	71.9	128.36
7.25	0.9	72.92	129.73
7.26	0.91	73.24	131
7.27	0.95	71.64	132.91
7.28	0.97	70.65	133.64
7.29	0.98	69.92	134.65
7.3	0.98	69.92	134.65
7.31	1.02	68.8	136.1
7.32	1.07	68.68	137.83
7.33	1.1	68.42	138.29
7.34	1.17	68.45	140.2
7.35	1.2	68.26	140.84
7.36	1.2	68.26	140.84
7.37	1.26	69.41	140.75
7.38	1.31	69.76	141.02
7.39	1.33	69.57	141.39
7.4	1.35	70.02	141.11
7.41	1.38	71.71	141.2
7.42	1.39	73.4	139.93
7.43	1.38	75.19	138.11
7.44	1.36	78.06	137.1
7.45	1.33	83.42	137.47
7.46	1.3	85.37	136.28
7.47	1.26	89.03	131.91
7.48	1.25	91.4	130.82
7.49	1.24	94.05	130.91
7.5	1.23	97.14	130.55
7.51	1.21	101.67	130.73
7.52	1.2	103.65	131.64
7.53	1.21	105.09	136.28
7.54	1.17	109.24	136.19
7.55	1.17	109.24	136.19
7.56	1.17	111.15	136.1
7.57	1.18	110.7	136.92
7.58	1.21	107.99	137.38
7.59	1.22	106.78	136.74
7.6	1.22	107.51	135.92
7.61	1.24	107.45	135.37
7.62	1.25	106.71	135.01
7.63	1.26	106.24	135.1
7.64	1.28	106.24	134.28
7.65	1.29	106.36	134.92
7.66	1.3	106.78	135.92

7.67	1.33	106.71	135.92
7.68	1.34	106.62	135.74
7.69	1.36	107.16	136.38
7.7	1.4	108.12	137.01
7.71	1.41	108.92	137.65
7.72	1.42	109.14	137.38
7.73	1.39	110.96	135.83
7.74	1.39	110.96	135.83
7.75	1.39	110.48	133.73
7.76	1.38	110.83	131.82
7.77	1.37	112.04	131.09
7.78	1.34	113.32	130.45
7.79	1.28	114.53	127.9
7.8	1.28	114.53	127.9
7.81	1.26	115.36	127.54
7.82	1.25	115.71	128.27
7.83	1.22	115.78	129.82
7.84	1.22	115.23	130.73
7.85	1.23	112.97	131.64
7.86	1.25	111.47	132.09
7.87	1.25	110.19	132.37
7.88	1.27	109.17	132.64
7.89	1.29	107.35	132.37
7.9	1.29	105.95	132.19
7.91	1.28	104.9	131.64
7.92	1.26	104.38	131.18
7.93	1.25	103.97	130.91
7.94	1.25	103.3	130.73
7.95	1.24	101.96	130.09
7.96	1.23	101.77	130.45
7.97	1.23	102.47	131.37
7.98	1.23	102.09	132.46
7.99	1.23	102.09	132.46
8	1.25	101.51	135.19
8.01	1.28	101.35	136.38
8.02	1.28	101.45	137.01
8.03	1.27	101.54	137.1
8.04	1.28	100.27	136.56
8.05	1.29	99.06	136.65
8.06	1.29	99.06	136.65
8.07	1.29	99.06	136.65
8.08	1.31	92.86	168.17
8.09	1.31	93.69	160.97
8.1	1.28	94.4	150.68
8.11	1.25	94.94	147.13
8.12	1.23	94.56	144.39
8.13	1.21	94.2	141.84

8.14	1.19	92.64	137.74
8.15	1.19	91.88	136.47
8.16	1.18	91.65	136.01
8.17	1.19	92	136.65
8.18	1.2	92	138.02
8.19	1.21	90.98	139.66
8.2	1.23	87.44	144.58
8.21	1.29	84.28	147.76
8.22	1.26	80.87	145.3
8.23	1.28	73.91	144.3
8.24	1.29	71.32	144.76
8.25	1.29	71.32	144.76
8.26	1.34	66.95	150.31
8.27	1.37	65.48	153.14
8.28	1.42	63.57	156.42
8.29	1.56	56.93	164.8
8.3	1.62	54.54	167.08
8.31	1.66	53.26	169.35
8.32	1.73	53.07	175.46
8.33	1.74	54	183.11
8.34	1.73	55.75	181.65
8.35	1.79	56.64	182.56
8.36	1.8	57.86	183.93
8.37	1.81	58.56	184.75
8.38	1.79	58.59	183.47
8.39	1.72	57.22	177.83
8.4	1.74	57.03	177.28
8.41	1.76	58.18	182.29
8.42	1.79	59.61	188.21
8.43	1.82	60.82	190.03
8.44	1.82	60.82	190.03
8.45	1.9	64.69	199.78
8.46	1.93	65.32	206.16
8.47	2	67.49	203.24
8.48	2	70.24	200.24
8.49	1.98	73.43	205.7
8.5	2.02	75.86	206.7
8.51	1.99	81.34	198.6
8.52	1.98	84.41	206.25
8.53	1.97	87.69	202.79
8.54	1.98	94.84	198.96
8.55	1.94	99.28	197.32
8.56	1.91	104.29	195.14
8.57	1.89	111.15	197.96
8.58	1.92	114.37	208.44
8.59	1.98	117.88	204.7
8.6	1.77	121.9	200.78

8.61	1.79	120.15	202.97
8.62	1.75	117.88	201.15
8.63	1.75	117.88	201.15
8.64	1.69	114.34	199.78
8.65	1.72	112.43	199.96
8.66	1.76	107.16	197.87
8.67	1.74	105.28	197.59
8.68	1.78	102.98	195.77
8.69	1.78	102.98	195.77
8.7	1.77	97.65	198.41
8.71	1.75	96.6	202.61
8.72	1.79	97.3	217.36
8.73	1.8	98.64	220.92
8.74	1.76	97.2	221.92
8.75	1.82	98.77	224.1
8.76	1.97	98.45	226.93
8.77	1.92	98.64	217
8.78	1.76	102.28	212.54
8.79	1.77	103.17	216.73
8.8	1.79	104.19	222.65
8.81	1.93	103.81	231.58
8.82	1.99	105.28	234.03
8.83	2.06	105.05	238.41
8.84	2.18	106.59	246.52
8.85	2.2	107.45	241.41
8.86	2.29	106.65	242.05
8.87	2.29	107.7	234.58
8.88	2.23	105.95	233.85
8.89	2.2	106.43	230.76
8.9	2.2	106.14	245.33
8.91	2.12	107.16	245.88
8.92	2.12	106.4	247.06
8.93	2.11	105.02	250.71
8.94	2.1	106.68	260.27
8.95	2.1	106.17	261.55
8.96	2.11	106.27	262.82
8.97	2.14	105.15	266.83
8.98	2.15	104.58	270.93
8.99	2.22	103.43	272.84
9	2.22	103.43	272.84
9.01	2.31	102.31	277.85
9.02	2.31	102.34	273.94
9.03	2.33	106.27	289.51
9.04	2.37	106.62	292.52
9.05	2.35	107.42	288.88
9.06	2.35	107.42	288.88
9.07	2.35	107.42	288.88

9.08	2.4	111.53	317.3
9.09	2.41	112.55	307.92
9.1	2.42	114.56	303.82
9.11	2.41	121.17	316.84
9.12	2.39	124.55	310.38
9.13	2.35	127.84	305.46
9.14	2.33	132.31	302.45
9.15	2.32	133.27	310.01
9.16	2.3	135.5	306.55
9.17	2.27	137.48	312.74
9.18	2.26	139.87	313.84
9.19	2.3	138.95	314.02
9.2	2.37	134.67	313.56
9.21	2.4	133.97	315.84
9.22	2.4	135.5	314.2
9.23	2.41	136.17	314.66
9.24	2.37	140.99	320.85
9.25	2.4	140.38	320.76
9.26	2.41	139.97	322.13
9.27	2.43	139.78	322.86
9.28	2.46	139.07	321.76
9.29	2.49	139.49	324.31
9.3	2.5	140.38	326.68
9.31	2.55	141.53	342.17
9.32	2.56	142.97	342.72
9.33	2.62	144.15	339.25
9.34	2.66	144.21	335.25
9.35	2.7	143.16	335.98
9.36	2.7	143.16	335.98
9.37	2.8	146.22	346.36
9.38	2.84	146.83	346.09
9.39	2.87	148.42	345.91
9.4	2.89	154.68	350
9.41	2.9	155.76	347.91
9.42	2.88	158.25	349.09
9.43	2.87	161.22	349.64
9.44	2.9	165.56	354.29
9.45	2.92	166.93	350.28
9.46	2.84	169.61	338.98
9.47	2.84	169.87	339.25
9.48	2.84	171.11	334.61
9.49	2.82	172.23	333.88
9.5	2.77	174.53	352.01
9.51	2.77	175.61	362.3
9.52	2.78	176.73	357.2
9.53	2.9	171.88	353.92
9.54	2.95	170.12	351.37

9.55	2.95	170.12	351.37
9.56	2.97	169.74	348.55
9.57	2.97	167.79	344.27
9.58	2.97	168.11	347.82
9.59	3.01	168.88	352.92
9.6	3.02	169.71	346.91
9.61	3.02	169.71	346.91
9.62	3.11	171.34	345.27
9.63	3.11	176.09	348.73
9.64	3.13	179.47	352.01
9.65	3.15	182.47	350.37
9.66	3.17	190.39	346.63
9.67	3.18	194.89	349.37
9.68	3.16	199.36	360.03
9.69	3.13	202.74	361.48
9.7	3.15	201.3	395.1
9.71	3.15	200.19	378.7
9.72	3.16	199.13	362.85
9.73	3.2	196.8	354.92
9.74	3.25	193.71	352.92
9.75	3.28	193.48	354.38
9.76	3.35	194.95	391.91
9.77	3.39	194.31	388.27
9.78	3.5	193.71	407.58
9.79	3.54	192.94	404.21
9.8	3.54	192.94	404.21
9.81	3.51	191.38	393.64
9.82	3.46	186.34	389.18
9.83	3.46	184.9	385.08
9.84	3.45	185.6	381.16
9.85	3.38	190.71	379.07
9.86	3.37	192.3	374.05
9.87	3.29	194.19	367.22
9.88	3.17	197.12	365.31
9.89	3.13	196.13	364.67
9.9	3.09	196.67	367.13
9.91	3.08	201.4	383.98
9.92	3.07	203.79	398.01
9.93	3.03	206.92	415.05
9.94	2.92	209.28	438.28
9.95	2.9	205.96	454.31
9.96	2.9	200.57	449.67
9.97	2.95	187.42	440.83
9.98	2.99	180.75	444.02
9.99	2.99	180.75	444.02
10	2.98	173.06	440.47
10.01	2.93	167.73	440.83

10.02	2.88	164.7	441.38
10.03	2.8	153.59	439.28
10.04	2.79	147.05	439.37
10.05	2.77	141.72	436.73
10.06	2.77	141.72	436.73
10.07	2.77	141.72	436.73
10.08	2.65	121.84	712.49
10.09	2.64	122.45	700.74
10.1	2.58	122.93	687.8
10.11	2.57	121.27	685.89
10.12	2.61	119.54	691.81
10.13	2.7	118.3	707.84
10.14	2.74	118.39	701.19
10.15	2.69	122.48	706.66
10.16	2.71	122.83	699.74
10.17	2.78	123.44	638.7
10.18	2.79	122.26	641.34
10.19	2.79	122.26	641.34
10.2	2.78	124.01	604.08
10.21	2.84	126.82	639.61
10.22	2.85	129.18	527.1
10.23	2.83	138.59	466.16
10.24	2.83	142.07	467.52
10.25	2.86	144.91	463.24
10.26	2.86	148.77	470.8
10.27	2.87	159.53	515.99
10.28	2.83	163.2	505.6
10.29	2.79	166.2	517.54
10.3	2.76	168.53	548.24
10.31	2.75	169.42	559.44
10.32	2.75	171.02	533.57
10.33	2.71	170.79	447.39
10.34	2.69	170.79	444.57
10.35	2.68	168.3	441.38
10.36	2.67	165.59	437.1
10.37	2.76	164.92	458.23
10.38	2.76	164.92	458.23
10.39	2.72	158.92	622.76
10.4	2.78	155.73	613.74
10.41	2.82	150.47	596.06
10.42	2.84	142.46	597.16
10.43	2.87	137.45	593.33
10.44	2.87	137.45	593.33
10.45	2.94	128.1	644.17
10.46	2.99	126.4	628.95
10.47	3.11	123.63	634.42
10.48	3.18	122.38	639.06

10.49	3.25	121.3	640.07
10.5	3.32	120.88	638.7
10.51	3.39	121.33	636.79
10.52	3.4	119.83	633.14
10.53	3.35	120.98	624.21
10.54	3.32	123.09	618.02
10.55	3.28	126.82	611.55
10.56	3.22	130.14	606.18
10.57	3.08	134.51	594.15
10.58	3	135.15	586.41
10.59	2.92	136.78	580.21
10.6	2.76	137.19	568.73
10.61	2.67	135.5	562.54
10.62	2.59	133.3	555.16
10.63	2.43	128	542.22
10.64	2.34	123.4	535.94
10.65	2.29	118.2	530.11
10.66	2.2	108.25	514.8
10.67	2.14	104.38	511.07
10.68	2.06	97.91	507.52
10.69	2	93.95	505.6
10.7	1.97	90.18	504.51
10.71	1.93	86.16	502.51
10.72	1.87	79.14	495.4
10.73	1.83	76.88	488.38
10.74	1.74	73.43	475.18
10.75	1.69	72.6	471.99
10.76	1.66	71.16	468.43
10.77	1.62	69.63	464.7
10.78	1.58	67.62	458.23
10.79	1.56	66.25	455.41
10.8	1.54	61.94	450.12
10.81	1.54	61.94	450.12
10.82	1.5	59.9	447.85
10.83	1.49	58.72	446.57
10.84	1.46	55.08	447.39
10.85	1.46	53.96	450.76
10.86	1.45	51.95	458.23
10.87	1.45	51.41	462.79
10.88	1.46	50.8	461.87
10.89	1.47	50.33	461.15
10.9	1.48	49.59	462.69
10.91	1.5	49.5	462.97
10.92	1.54	49.72	458.23
10.93	1.54	50.26	456.41
10.94	1.54	51.19	455.77
10.95	1.54	52.3	456.86

10.96	1.54	54.06	463.79
10.97	1.54	54.6	465.88
10.98	1.56	54.76	466.98
10.99	1.58	55.34	466.25
11	1.58	55.34	466.25
11.01	1.6	55.94	462.06
11.02	1.59	60.28	465.88
11.03	1.57	61.65	464.61
11.04	1.56	61.85	463.33
11.05	1.55	61.59	462.33
11.06	1.55	61.59	462.33
11.07	1.55	61.59	462.33
11.08	1.71	50.1	480
11.09	1.66	56.87	486.93
11.1	1.64	57.98	497.13
11.11	1.64	58.5	499.13
11.12	1.6	60.31	490.39
11.13	1.58	61.85	490.12
11.14	1.58	62.87	487.56
11.15	1.57	61.72	491.12
11.16	1.58	61.65	497.68
11.17	1.58	62.29	500.96
11.18	1.63	62.93	505.24
11.19	1.65	61.94	505.78
11.2	1.67	61.24	509.61
11.21	1.69	61.24	516.35
11.22	1.76	58.72	522.18
11.23	1.8	58.11	528.83
11.24	1.82	58.78	531.47
11.25	1.82	59.45	528.38
11.26	1.82	59.45	528.38
11.27	1.82	60.31	528.1
11.28	1.85	62.07	536.85
11.29	1.86	64.94	533.02
11.3	1.87	70.75	537.58
11.31	1.89	71.93	538.95
11.32	1.9	72.82	538.31
11.33	1.91	73.94	538.95
11.34	1.93	77.29	538.67
11.35	1.94	78.38	541.04
11.36	2	80.71	548.87
11.37	2.01	81.7	555.16
11.38	2.01	82.72	550.33
11.39	2	83.71	551.33
11.4	2.02	84.85	555.8
11.41	2.02	85.01	559.08
11.42	2.02	85.75	560.17

11.43	1.98	85.59	555.62
11.44	1.99	85.4	554.71
11.45	1.99	85.4	554.71
11.46	2.02	85.14	562.08
11.47	2.03	85.37	565.64
11.48	2.05	86	568.37
11.49	2.08	88.17	575.02
11.5	2.07	89.51	579.21
11.51	2.07	89.83	579.85
11.52	2.09	87.69	579.39
11.53	2.12	85.49	577.21
11.54	2.1	87.06	580.21
11.55	2.11	87.47	579.48
11.56	2.11	87.63	580.12
11.57	2.09	88.97	583.67
11.58	2.06	90.57	583.4
11.59	2.06	89.07	574.84
11.6	2.06	88.43	570.1
11.61	2.05	88.94	568.83
11.62	2.03	90.22	570.47
11.63	2.03	89.93	570.65
11.64	2.03	89.93	570.65
11.65	2.03	90.12	566.82
11.66	2	92.42	564.64
11.67	1.93	91.21	555.16
11.68	1.9	90.02	551.43
11.69	1.87	89.74	549.15
11.7	1.87	89.74	549.15
11.71	1.81	86.64	540.77
11.72	1.77	85.01	538.4
11.73	1.74	84.73	537.49
11.74	1.73	85.49	535.48
11.75	1.71	83.58	531.66
11.76	1.69	81.95	529.38
11.77	1.67	77.39	521.45
11.78	1.66	74.58	519.45
11.79	1.67	72.31	519.72
11.8	1.7	63.82	527.56
11.81	1.75	62.84	532.39
11.82	1.81	63.73	540.4
11.83	1.87	63.41	551.15
11.84	2.05	60.54	574.66
11.85	2.18	60.06	583.67
11.86	2.4	62.42	585.13
11.87	2.5	65.99	576.93
11.88	2.6	69.7	428.71
11.89	2.6	69.7	428.71

11.9	2.85	85.94	257.72
11.91	2.89	90.5	243.87
11.92	2.99	97.43	237.86
11.93	3.03	99.63	243.51
11.94	2.98	100.49	239.32
11.95	2.98	100.49	239.32
11.96	2.66	96.5	216.45
11.97	2.49	92.39	205.16
11.98	2.19	83.07	213.63
11.99	2.06	79.81	226.56
12	1.93	75.79	251.34
12.01	1.89	72.34	278.22
12.02	2.15	80.71	305.64
12.03	2.28	82.84	306.46
12.04	2.57	82.68	297.62
12.05	2.78	84.76	291.88
12.06	2.78	84.76	291.88
12.07	2.78	84.76	291.88
12.08	3.22	108.05	224.01
12.09	3.08	108.82	209.71
12.1	3.08	108.82	209.71
12.11	2.79	107.96	193.31
12.12	2.58	104.8	180.83
12.13	2.33	97.97	188.85
12.14	2.27	95.67	208.71
12.15	2.19	92.77	227.2
12.16	2.16	91.01	243.96
12.17	2.25	87.34	251.07
12.18	2.38	81.85	248.16
12.19	2.63	79.14	232.85
12.2	2.77	84.5	227.29
12.21	2.94	95.48	231.21
12.22	3.05	101.77	230.94
12.23	3.18	107.45	223.83
12.24	3.34	113.22	224.2
12.25	3.69	119	226.02
12.26	3.92	120.63	226.02
12.27	4.39	121.07	175.91
12.28	4.57	119.77	176.64
12.29	4.57	119.77	176.64
12.3	4.88	115.87	176
12.31	5.11	105.66	172.82
12.32	5.17	100.01	161.16
12.33	5.25	92.35	144.85
12.34	5.27	87.63	138.11
12.35	5.27	81.82	132.37
12.36	5.28	64.3	117.79

12.37	5.27	51.73	110.14
12.38	5.28	41.65	100.85
12.39	5.28	32.3	71.24
12.4	5.28	31.34	54.75
12.41	5.29	31.5	47.55
12.42	5.3	32.2	45.28
12.43	5.23	34.02	41.09
12.44	5.2	34.62	43.09
12.45	5.14	32.84	51.56
12.46	5.12	31.24	54.02
12.47	5.1	29.49	55.3
12.48	5.1	29.49	55.3
12.49	5.06	24.6	54.02
12.5	5.08	23.65	49.38
12.51	5.08	26.61	31.98
12.52	5.08	27.92	26.69
12.53	5.04	30.76	21.68
12.54	5.04	30.76	21.68
12.55	4.99	38.52	16.76
12.56	4.98	41.26	18.49
12.57	4.88	43.4	20.95
12.58	4.83	40.56	21.23
12.59	4.8	37.43	23.32
12.6	4.77	33.25	27.97
12.61	4.74	23.3	36.26
12.62	4.76	20.93	39.45
12.63	4.78	19.59	42.45
12.64	4.82	21.67	40.9
12.65	4.85	24.35	37.26
12.66	4.85	27.09	34.8
12.67	4.91	32.45	33.07
12.68	4.9	35.14	31.52
12.69	4.89	36.73	29.61
12.7	4.74	36.83	24.69
12.71	4.65	35.36	24.51
12.72	4.49	32.87	23.32
12.73	4.1	26.49	25.69
12.74	3.88	22.98	27.42
12.75	3.68	20.71	28.51
12.76	3.39	22.88	31.52
12.77	3.35	25.82	34.16
12.78	3.45	33.92	40.72
12.79	3.45	33.92	40.72
12.8	3.59	42.99	46.64
12.81	3.69	47.2	49.65
12.82	3.98	58.78	56.76
12.83	4.19	66.95	57.03

12.84	4.6	73.62	40.08
12.85	4.6	73.62	40.08
12.86	4.83	73.46	38.17
12.87	4.86	72.79	38.08
12.88	4.75	69.35	38.26
12.89	4.71	62.29	34.25
12.9	4.62	49.34	29.43
12.91	4.62	49.34	29.43
12.92	4.51	43.11	32.34
12.93	4.45	40.91	34.07
12.94	4.29	35.74	35.89
12.95	4.22	32.87	36.71
12.96	4.14	30.54	37.44
12.97	4.03	28.47	38.99
12.98	3.98	28.4	39.81
12.99	3.95	28.98	40.36
13	3.91	29.65	41.63
13.01	3.88	29.17	42.45
13.02	3.89	28.5	43.27
13.03	3.91	27.7	45
13.04	3.92	27.7	45.82
13.05	3.95	27.99	46.64
13.06	3.95	27.99	46.64
13.07	3.95	27.99	46.64
13.08	4.17	25.91	70.69
13.09	4.25	26.46	67.78
13.1	4.25	26.46	67.78
13.11	4.61	28.08	63.95
13.12	4.76	28.66	63.95
13.13	4.95	29.2	64.41
13.14	5.43	29.9	66.78
13.15	5.69	30.13	68.05
13.16	5.96	30.57	69.14
13.17	6.44	31.66	70.24
13.18	6.64	32.33	70.33
13.19	6.81	33.22	70.15
13.2	7.09	34.43	69.42
13.21	7.17	34.75	68.69
13.22	7.23	35.33	67.78
13.23	7.33	37.18	66.68
13.24	7.39	38.01	66.41
13.25	7.53	40.15	66.5
13.26	7.62	41.39	66.96
13.27	7.73	42.63	67.5
13.28	7.83	43.97	67.96
13.29	8.07	47.26	69.24
13.3	8.18	48.67	69.78

13.31	8.38	51.31	70.51
13.32	8.48	52.46	70.88
13.33	8.55	53.68	70.88
13.34	8.66	55.88	70.78
13.35	8.71	56.87	70.78
13.36	8.76	57.63	70.78
13.37	8.81	59.39	70.88
13.38	8.84	59.87	70.97
13.39	8.92	60.63	71.6
13.4	8.97	60.6	72.15
13.41	9.05	60.47	72.79
13.42	9.05	60.73	73.15
13.43	9.28	60.63	75.07
13.44	9.4	60.63	76.16
13.45	9.68	61.27	78.44
13.46	9.82	61.85	79.17
13.47	9.82	61.85	79.17
13.48	9.91	64.59	77.8
13.49	9.87	65.2	77.25
13.5	9.83	65.32	76.89
13.51	9.75	65.83	76.8
13.52	9.77	65.93	77.25
13.53	9.77	65.93	77.25
13.54	10.02	66.57	80.53
13.55	10.18	66.82	81.9
13.56	10.39	67.43	82.9
13.57	10.39	68.04	82.35
13.58	10.33	68.58	81.26
13.59	10.2	69.15	80.08
13.6	9.9	70.46	78.71
13.61	9.8	70.72	78.62
13.62	9.67	70.59	79.62
13.63	9.71	70.62	80.62
13.64	9.95	70.69	84.36
13.65	9.95	70.69	84.36
13.66	10.37	70.81	88.28
13.67	10.6	71	90.1
13.68	11.06	71.42	92.92
13.69	11.31	71.77	94.11
13.7	11.84	71.8	96.57
13.71	11.84	71.8	96.57
13.72	12.34	69.98	97.84
13.73	12.74	68.16	99.12
13.74	12.89	67.91	99.39
13.75	13.04	67.49	98.93
13.76	13.1	67.3	98.66
13.77	13.16	67.43	98.75

13.78	13.22	67.53	98.84
13.79	13.25	67.78	98.57
13.8	13.19	69.03	97.39
13.81	13.08	70.37	96.66
13.82	12.92	71.55	95.65
13.83	12.48	74.39	93.65
13.84	12.21	75.34	92.47
13.85	11.92	76.4	91.37
13.86	11.35	79.24	89.73
13.87	11.07	81.57	89.46
13.88	10.72	85.11	90.64
13.89	10.63	86.58	92.1
13.9	10.57	88.52	93.29
13.91	10.41	89.51	94.29
13.92	10.29	89.67	94.2
13.93	10.14	89.61	93.65
13.94	9.77	89.45	92.47
13.95	9.56	88.84	91.83
13.96	9.13	87.92	90.55
13.97	8.92	86.99	90.28
13.98	8.72	86.1	90.01
13.99	8.54	85.27	90.01
14	8.27	83.32	90.37
14.01	8.17	82.62	90.55
14.02	8.01	82.14	91.37
14.03	7.97	81.89	92.01
14.04	7.94	81.79	92.65
14.05	7.94	81.38	93.56
14.06	7.94	81.38	93.56
14.07	7.94	81.38	93.56
14.08	7.88	70.88	104.67
14.09	7.87	70.37	98.48
14.1	7.84	69.98	94.56
14.11	7.77	68.9	89.46
14.12	7.71	68.8	87.82
14.13	7.69	69.06	86.36
14.14	7.67	69.28	86
14.15	7.65	69.28	85.72
14.16	7.63	68.71	85.54
14.17	7.57	67.53	84.54
14.18	7.54	66.89	84.18
14.19	7.46	66.06	83.99
14.2	7.45	65.74	84.18
14.21	7.44	65.42	84.27
14.22	7.4	64.88	84.18
14.23	7.36	64.69	83.72
14.24	7.32	64.33	83.27

14.25	7.21	63.7	82.35
14.26	7.17	63.57	82.26
14.27	7.11	63.76	83.08
14.28	7.12	64.08	84.08
14.29	7.16	64.37	85.36
14.3	7.38	65.07	89.46
14.31	7.59	65.2	92.65
14.32	8.27	65.26	100.85
14.33	8.77	64.94	105.49
14.34	9.4	64.62	110.59
14.35	10.13	64.21	114.88
14.36	11.46	63.35	117.88
14.37	11.99	63.82	117.15
14.38	12.87	64.65	115.51
14.39	13.24	65.26	115.06
14.4	13.55	66.09	114.33
14.41	14.02	68.07	112.69
14.42	14.16	69.47	111.69
14.43	14.35	72.95	110.41
14.44	14.39	74.8	109.68
14.45	14.47	79.68	109.23
14.46	14.49	82.17	109.14
14.47	14.53	84.76	109.41
14.48	14.68	90.12	110.96
14.49	14.8	92.19	111.87
14.5	14.9	94.36	112.96
14.51	15.18	97.43	115.24
14.52	15.31	98.58	116.24
14.53	15.47	99.37	117.43
14.54	15.79	100.94	119.52
14.55	15.9	101.48	119.89
14.56	15.96	103.14	119.25
14.57	15.92	103.81	118.7
14.58	15.83	104.51	117.97
14.59	15.63	106.65	117.25
14.6	15.51	108.18	117.15
14.61	15.24	111.34	116.97
14.62	15.14	112.59	117.52
14.63	15.06	113.74	118.25
14.64	14.98	114.6	118.79
14.65	14.85	115.91	119.61
14.66	14.85	115.91	119.61
14.67	14.47	118.9	119.52
14.68	14.28	119.1	118.79
14.69	13.86	119.19	118.52
14.7	13.63	118.46	118.16
14.71	13.41	118.33	117.7

14.72	12.97	117.69	117.61
14.73	12.78	117.18	117.88
14.74	12.51	114.44	119.7
14.75	12.44	113.03	120.71
14.76	12.4	111.95	122.07
14.77	12.44	109.08	124.99
14.78	12.52	107.83	126.54
14.79	12.64	106.3	128.27
14.8	13.03	103.17	132.37
14.81	13.28	101.54	134.28
14.82	13.54	100.3	135.65
14.83	14	98	137.01
14.84	14	98	137.01
14.85	14.49	95.93	137.83
14.86	14.63	95	138.29
14.87	14.83	93.18	138.65
14.88	14.85	92.58	138.29
14.89	14.86	92.07	137.65
14.9	14.72	92.16	136.28
14.91	14.63	92.77	135.65
14.92	14.36	94.97	134.92
14.93	14.23	96.22	134.83
14.94	14.13	97.59	135.01
14.95	13.96	100.4	135.74
14.96	13.86	101.35	135.74
14.97	13.56	102.15	134.65
14.98	13.35	102.76	133.55
14.99	13.06	103.65	131.73
15	12.73	105.53	130
15.01	11.92	109.49	125.54
15.02	11.92	109.49	125.54
15.03	10.69	113.16	122.07
15.04	10.32	112.84	121.25
15.05	9.96	112.49	120.34
15.06	9.96	112.49	120.34
15.07	9.96	112.49	120.34
15.08	8.64	100.11	111.05
15.09	8.26	99.63	96.93
15.1	8.1	99.12	93.47
15.11	7.81	96.95	89.64
15.12	7.69	95.48	89.1
15.13	7.5	92.13	88.46
15.14	7.42	90.06	88.46
15.15	7.34	87.76	88.55
15.16	7.25	83.58	89.64
15.17	7.23	81.54	90.19
15.18	7.21	77.93	91.28

15.19	7.2	76.56	91.74
15.2	7.2	76.56	91.74
15.21	7.25	74.58	93.1
15.22	7.41	73.65	96.29
15.23	7.58	73.37	99.03
15.24	8.08	72.98	105.4
15.25	8.37	72.89	108.14
15.26	8.65	73.11	110.05
15.27	9.23	73.97	112.23
15.28	9.23	73.97	112.23
15.29	9.86	75.22	110.05
15.3	9.96	76.27	108.96
15.31	10.17	78.44	107.32
15.32	10.23	79.01	107.04
15.33	10.31	79.56	106.77
15.34	10.43	80.83	106.4
15.35	10.52	81.44	106.77
15.36	10.67	81.44	107.04
15.37	10.76	81.44	107.04
15.38	10.82	81.79	107.13
15.39	10.91	81.85	107.13
15.4	10.91	81.85	107.13
15.41	10.77	81.44	104.4
15.42	10.61	81.18	102.76
15.43	10.15	81.06	98.75
15.44	9.88	81.57	97.39
15.45	9.62	82.11	96.57
15.46	9.19	83.8	95.29
15.47	9.03	84.15	95.2
15.48	8.84	84.34	96.47
15.49	8.78	84.25	97.57
15.5	8.76	84.02	98.75
15.51	8.73	83.1	100.12
15.52	8.68	82.65	99.66
15.53	8.58	82.01	98.21
15.54	8.28	80.99	95.2
15.55	8.1	80.48	93.74
15.56	7.94	79.91	93.01
15.57	7.63	77.45	91.56
15.58	7.48	76.14	91.01
15.59	7.19	73.78	90.37
15.6	7.06	72.76	89.82
15.61	6.92	72.09	89.55
15.62	6.8	71.39	89.37
15.63	6.57	70.65	89.28
15.64	6.57	70.65	89.28
15.65	6.36	69.28	90.1

15.66	6.33	68.96	91.1
15.67	6.3	68	92.65
15.68	6.3	67.59	93.38
15.69	6.3	67.21	93.83
15.7	6.28	66.79	94.29
15.71	6.32	65.93	95.29
15.72	6.35	65.23	95.75
15.73	6.4	64.37	95.84
15.74	6.4	64.37	95.84
15.75	6.39	63.92	94.93
15.76	6.32	63.47	92.74
15.77	6.24	63.35	91.83
15.78	6.18	63.12	90.92
15.79	6.02	62.99	89.1
15.8	5.96	63.06	88.28
15.81	5.87	63.44	87.91
15.82	5.73	63.79	86.82
15.83	5.66	63.86	86.27
15.84	5.53	63.47	86.18
15.85	5.49	63.47	86.45
15.86	5.47	63.51	86.64
15.87	5.45	63.41	87
15.88	5.48	62.9	88.18
15.89	5.49	62.48	88.55
15.9	5.53	60.89	88.55
15.91	5.52	59.93	88.46
15.92	5.53	59.04	88.73
15.93	5.58	57.19	89.64
15.94	5.64	56.55	90.46
15.95	5.83	55.69	92.92
15.96	5.95	55.14	93.83
15.97	6.08	54.79	94.83
15.98	6.21	54.38	96.02
15.99	6.58	53.36	100.12
16	6.81	52.27	102.12
16.01	7.27	50.8	104.76
16.02	7.5	50.2	105.31
16.03	7.82	48.41	102.85
16.04	7.91	49.3	101.48
16.05	7.95	48.89	100.39
16.06	7.95	48.89	100.39
16.07	7.95	48.89	100.39
16.08	7.94	48.83	100.57
16.09	8.03	53.17	92.01
16.1	8.08	56.07	90.1
16.11	8.18	61.88	87.64
16.12	8.23	65.07	86.82

16.13	8.26	68.58	86.36
16.14	8.27	75.03	84.72
16.15	8.26	78.92	84.36
16.16	8.28	84.89	84.54
16.17	8.34	87.34	85.45
16.18	8.48	90.69	87.46
16.19	8.58	91.27	88.46
16.2	8.7	91.01	89.46
16.21	8.91	89.45	90.64
16.22	8.99	88.88	90.83
16.23	9.07	87.6	90.01
16.24	9.07	87.12	89.46
16.25	9.09	86.8	89.28
16.26	9.13	86.04	89.73
16.27	9.2	85.72	90.64
16.28	9.4	84.76	92.74
16.29	9.5	83.55	93.65
16.3	9.62	82.4	94.29
16.31	9.72	81.76	94.65
16.32	9.89	81.28	95.11
16.33	9.95	81.41	95.11
16.34	10.04	82.4	94.83
16.35	10.08	83.07	95.02
16.36	10.2	84.82	95.84
16.37	10.3	85.3	96.84
16.38	10.41	85.65	98.11
16.39	10.77	86.26	101.21
16.4	10.96	86.51	102.21
16.41	11.42	79.3	95.2
16.42	11.48	82.78	88.46
16.43	11.58	86.64	85.91
16.44	11.64	88.52	85.45
16.45	11.73	91.72	84.72
16.46	11.71	93.22	83.9
16.47	11.47	95.96	81.44
16.48	11.29	97.33	80.08
16.49	11.08	98.7	78.98
16.5	10.56	101.83	76.43
16.51	10.25	103.62	74.88
16.52	9.57	106.81	72.24
16.53	9.25	107.96	70.88
16.54	8.63	109.24	68.14
16.55	8.33	109.43	67.05
16.56	7.75	108.76	65.41
16.57	7.48	107.9	64.77
16.58	6.89	106.2	63.13
16.59	6.59	105.31	62.4

16.6	6.33	104.23	61.86
16.61	6.06	102.57	61.67
16.62	5.61	98.58	62.13
16.63	5.28	93.44	64.32
16.64	5.18	90.92	65.96
16.65	5.07	86.93	70.33
16.66	5.05	84.95	72.97
16.67	5.05	84.95	72.97
16.68	5.11	79.05	81.53
16.69	5.16	76.75	83.9
16.7	5.22	71.9	85.91
16.71	5.22	69.57	85.72
16.72	5.15	64.75	83.9
16.73	5.11	62.29	82.81
16.74	5.06	60.06	81.72
16.75	4.99	56.17	81.08
16.76	4.97	54.7	81.26
16.77	4.98	52.3	82.54
16.78	5	51.03	83.27
16.79	5.04	49.75	83.99
16.8	5.06	48.57	84.08
16.81	5.07	46.56	85
16.82	5.12	45.86	86
16.83	5.28	45.09	89
16.84	5.4	44.87	90.92
16.85	5.4	44.87	90.92
16.86	5.86	45.54	97.02
16.87	6.05	45.76	98.48
16.88	6.36	46.24	99.12
16.89	6.47	46.43	98.21
16.9	6.59	46.43	96.38
16.91	6.61	46.59	95.11
16.92	6.62	46.59	94.11
16.93	6.63	47.61	93.01
16.94	6.64	48.22	93.29
16.95	6.76	49.69	95.47
16.96	6.87	50.49	97.48
16.97	7.02	51.06	99.66
16.98	7.36	52.4	103.31
16.99	7.53	52.85	104.67
17	7.8	53.68	104.76
17.01	7.87	54.54	103.76
17.02	7.91	55.72	102.4
17.03	7.93	57.6	100.57
17.04	7.95	58.59	100.76
17.05	7.95	58.59	100.76
17.06	7.95	58.59	100.76

17.07	9.57	58.08	128.45
17.08	10.13	58.94	128.63
17.09	10.79	59.93	129.45
17.1	12.11	61.43	130.82
17.11	12.83	62.2	131.37
17.12	14.1	64.18	130.91
17.13	14.65	65.64	130.27
17.14	15.58	68.8	128.81
17.15	15.95	71.36	128.09
17.16	16.49	77.13	126.36
17.17	16.65	80.29	125.26
17.18	16.67	86.8	121.8
17.19	16.56	90.73	119.61
17.2	15.99	97.94	115.06
17.21	15.6	102.69	113.05
17.22	15.17	107.8	111.41
17.23	14.34	118.33	109.96
17.24	13.96	124.17	110.41
17.25	13.38	134.86	112.33
17.26	13.2	139.9	113.87
17.27	13.01	147.21	117.88
17.28	12.97	149.73	119.61
17.29	13.03	152.6	123.44
17.3	13.08	153.24	125.26
17.31	13.38	153.72	130
17.32	13.55	153.75	131.91
17.33	13.72	153.63	133.46
17.34	14.02	152.06	134.83
17.35	14.14	150.43	135.37
17.36	14.36	145.77	136.01
17.37	14.49	140.86	136.74
17.38	14.56	138.44	137.74
17.39	14.64	136.01	138.56
17.4	14.76	132.91	139.47
17.41	14.82	132.37	140.02
17.42	14.89	134.16	140.93
17.43	14.91	135.31	140.75
17.44	14.91	135.31	140.75
17.45	14.48	140.99	136.83
17.46	14.16	143.54	134.65
17.47	13.49	149.06	132.55
17.48	13.09	152.54	130.45
17.49	12.33	157.81	128.81
17.5	11.94	160.14	129
17.51	11.34	166.2	125.72
17.52	11.11	171.43	129.45
17.53	11.46	182.67	144.3

17.54	11.68	186.97	146.76
17.55	11.82	190.1	146.58
17.56	12.26	190.45	151.41
17.57	12.55	188.95	152.32
17.58	13.15	184.36	129.45
17.59	13.68	181.52	132.64
17.6	14.91	171.69	145.58
17.61	14.91	171.69	145.58
17.62	16.63	154.97	162.52
17.63	17.14	147.72	154.87
17.64	18	135.53	135.28
17.65	18.37	130.62	136.74
17.66	19.01	121.07	146.03
17.67	19.27	117.6	144.39
17.68	19.51	115.43	144.67
17.69	19.98	112.97	138.56
17.7	20.33	117.28	142.84
17.71	20.45	122.73	144.39
17.72	20.55	128.99	142.75
17.73	20.72	143.7	143.3
17.74	20.86	151.07	143.66
17.75	21.03	161.79	144.94
17.76	21.13	166.93	144.94
17.77	21.27	176.44	144.03
17.78	21.27	176.44	144.03
17.79	21.44	189.37	145.3
17.8	21.5	193.39	145.3
17.81	21.66	200.76	145.39
17.82	21.71	204.08	144.94
17.83	21.76	207.72	144.48
17.84	21.78	214.96	142.21
17.85	21.8	217.32	141.39
17.86	21.86	220.9	143.94
17.87	21.93	225.3	144.67
17.88	21.94	227.66	144.48
17.89	21.94	229.67	145.49
17.9	22.05	231.97	146.4
17.91	22.12	232.54	147.85
17.92	22.28	234.17	146.31
17.93	22.34	235.51	146.4
17.94	22.34	235.77	144.21
17.95	22.34	235.77	144.21
17.96	22.35	238.54	145.49
17.97	22.38	239.18	145.3
17.98	22.4	239.47	145.76
17.99	22.47	239.79	145.85
18	22.51	240.17	145.49

18.01	22.54	240.33	144.3
18.02	22.5	239.66	143.12
18.03	22.43	239.31	142.66
18.04	22.17	239.88	142.39
18.05	22.17	239.88	142.39
18.06	22.17	239.88	142.39
18.07	21.45	222.27	136.47
18.08	21.45	222.27	136.47
18.09	21.18	228.68	132
18.1	21.06	230.76	131.09
18.11	20.85	234.62	131.64
18.12	20.77	235.74	131.82
18.13	20.57	239.02	132.91
18.14	20.52	241.06	133.37
18.15	20.42	243.81	134.92
18.16	20.4	245.88	135.65
18.17	20.49	248.12	139.02
18.18	20.59	248.6	140.29
18.19	20.71	248.4	141.57
18.2	20.98	248.88	144.21
18.21	21.12	248.72	144.85
18.22	21.34	247.51	145.67
18.23	21.43	246.27	146.85
18.24	21.49	245.47	147.4
18.25	21.49	245.47	147.4
18.26	21.77	247.35	151.5
18.27	21.88	248.15	152.41
18.28	22.14	248.44	154.23
18.29	22.21	249.07	154.6
18.3	22.24	250.73	154.78
18.31	22.22	252.49	155.32
18.32	22.13	255.49	156.42
18.33	22.08	257.24	155.87
18.34	21.93	262.48	157.06
18.35	21.85	264.49	157.78
18.36	21.74	266.15	158.06
18.37	21.54	269.24	159.42
18.38	21.45	269.47	160.06
18.39	21.18	270.2	160.15
18.4	21.04	271.29	160.7
18.41	20.73	272.69	160.97
18.42	20.73	272.69	160.97
18.43	19.94	275.56	159.24
18.44	19.66	275.91	157.42
18.45	18.8	274.96	155.51
18.46	18.33	274.51	153.96
18.47	17.95	274.19	154.96

18.48	17.3	271.13	156.78
18.49	17.03	269.27	157.78
18.5	16.76	264.23	160.52
18.51	16.66	261.65	161.98
18.52	16.63	255.49	165.35
18.53	16.67	251.82	166.8
18.54	16.83	244.67	169.63
18.55	16.96	241.03	170.9
18.56	17.18	233.28	172.91
18.57	17.33	228.78	174.27
18.58	17.73	218.95	178.28
18.59	18.02	213.56	180.47
18.6	18.34	208.93	182.84
18.61	19.12	201.56	187.21
18.62	19.57	198.88	189.3
18.63	20.41	196.23	191.04
18.64	20.69	195.59	190.67
18.65	21.14	195.69	189.85
18.66	21.26	196.96	190.12
18.67	21.51	199.74	191.4
18.68	21.71	202	192.95
18.69	22.01	207.84	194.13
18.7	22.14	210.88	194.41
18.71	22.2	213.72	194.59
18.72	22.36	220.26	195.96
18.73	22.53	228.56	197.23
18.74	22.56	232.93	197.59
18.75	22.62	243.17	199.23
18.76	22.72	248.6	200.24
18.77	22.76	252.78	201.51
18.78	22.88	261.42	202.42
18.79	22.96	268.29	203.61
18.8	23.03	271.32	205.07
18.81	23.05	273.84	206.16
18.82	23.12	279.1	208.07
18.83	23.23	283.76	209.53
18.84	23.24	285.61	209.89
18.85	23.33	290.78	211.35
18.86	23.28	293.43	211.53
18.87	23.19	298.79	212.08
18.88	23.15	300.33	212.08
18.89	23.02	301.35	213.17
18.9	22.98	302.4	214.18
18.91	22.93	306.1	216.82
18.92	22.93	307.38	217.73
18.93	23.05	308.85	221.37
18.94	23.2	309.01	223.47

18.95	23.52	310.38	227.29
18.96	23.89	309.8	229.57
18.97	24.03	308.27	231.39
18.98	24.03	308.27	231.39
18.99	24.35	304.6	232.67
19	24.4	303.36	234.03
19.01	24.48	301.12	235.49
19.02	24.51	302.18	236.22
19.03	24.48	302.3	232.3
19.04	24.39	303.04	223.83
19.05	24.39	303.04	223.83
19.06	24.39	303.04	223.83
19.07	23.73	284.98	147.22
19.08	23.42	290.85	147.67
19.09	23.21	293.3	148.13
19.1	22.74	300.33	148.13
19.11	22.48	303.23	147.22
19.12	22.14	308.65	148.22
19.13	21.98	309.26	148.86
19.14	21.78	310.28	150.04
19.15	21.78	310.28	150.04
19.16	21.62	305.21	152.05
19.17	21.58	302.94	152.23
19.18	21.6	299.08	155.05
19.19	21.71	295.7	156.87
19.2	21.79	295.44	157.15
19.21	21.83	294.45	158.33
19.22	21.82	290.82	158.33
19.23	21.82	288.93	158.7
19.24	21.7	284.37	158.7
19.25	21.62	281.53	159.79
19.26	21.57	281.43	160.34
19.27	21.5	280.83	160.7
19.28	21.36	282.65	160.43
19.29	21.26	284.34	160.61
19.3	21.06	286.76	161.7
19.31	20.95	287.37	162.43
19.32	20.84	289.09	164.53
19.33	20.84	289.54	165.44
19.34	20.8	289.54	166.35
19.35	20.75	289.54	165.62
19.36	20.48	288.1	163.8
19.37	20.3	287.75	163.61
19.38	19.91	284.69	163.43
19.39	19.74	284.56	165.07
19.4	19.59	282.81	167.71
19.41	19.59	281.47	168.99

19.42	19.58	276.87	170.27
19.43	19.57	273.84	170.36
19.44	19.52	266.98	171.08
19.45	19.46	263.75	171.08
19.46	19.28	257.75	169.63
19.47	18.98	254.37	168.63
19.48	18.77	251.76	167.99
19.49	18.56	248.82	166.62
19.5	18	244.96	165.07
19.51	17.73	243.65	164.62
19.52	17.17	240.3	163.61
19.53	16.94	237.97	163.8
19.54	16.53	234.94	164.53
19.55	16.34	234.01	164.53
19.56	16.06	231.46	164.53
19.57	15.93	230.85	163.8
19.58	15.63	229.93	163.71
19.59	15.47	229.13	163.25
19.6	15.32	227.98	163.07
19.61	15.07	224.98	163.25
19.62	15	222.49	164.07
19.63	14.98	217.19	165.89
19.64	14.98	210.08	164.71
19.65	14.85	206.79	162.7
19.66	14.69	204.11	160.52
19.67	14.24	198.69	156.87
19.68	13.97	196.23	156.42
19.69	13.56	193.64	155.14
19.7	13.39	192.05	154.96
19.71	13.1	188.54	154.32
19.72	12.99	186.21	154.32
19.73	12.8	181.52	152.96
19.74	12.72	179.28	152.77
19.75	12.58	175.84	152.05
19.76	12.51	174.37	152.05
19.77	12.43	171.43	151.95
19.78	12.41	170.16	151.77
19.79	12.36	166.71	151.59
19.8	12.36	165.02	152.05
19.81	12.45	160.77	152.41
19.82	12.51	158.57	153.5
19.83	12.7	155.13	154.69
19.84	12.84	153.43	155.6
19.85	13.17	150.69	156.78
19.86	13.45	148.84	156.6
19.87	13.6	147.82	156.14
19.88	13.73	147.21	156.42

19.89	14.13	145.36	157.6
19.9	14.69	143.83	160.52
19.91	15.06	143.13	162.43
19.92	15.45	142.74	164.34
19.93	16.41	141.31	168.35
19.94	17.6	140.32	173.54
19.95	18.29	140.41	176.28
19.96	19.72	142.26	179.47
19.97	21.12	144.98	181.11
19.98	21.76	146.89	181.83
19.99	22.35	149.16	182.02
20	23.34	154.71	182.02
20.01	24.2	162.34	183.38
20.02	24.57	167.92	184.11
20.03	25.24	181.04	184.57
20.04	25.5	188.7	184.29

U2

Tilt

a Factor

10977	278275	0.8
31333	119040	

Tilt [°]	Speed [cm/sec]
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0.62	0
0.78	1.5
0.78	1.5
0.96	1.4
0.96	1.5
1	1.4
1.03	1.4
1.03	1.4
1.03	1.6
1.03	1.6
0.96	1.7
0.96	1.6
0.96	1.7
0.96	1.6

0.96	1.6
0.96	1.6
0.96	1.7
0.96	1.6
0.9	1.7
0.9	1.7
0.96	1.7
0.96	1.7
0.96	1.7
0.96	1.6
0.96	1.7
0.96	1.6
0.96	1.6
0.96	1.6
0.96	1.7
0.96	1.7
0.93	1.7
0.86	1.7
0.93	1.7
0.93	1.6
0.83	1.6
0.83	1.6
0.76	1.7
0.76	1.6
0.76	1.7
0.76	1.7
0.76	1.7
0.73	1.7
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0.73	1.7
0.73	1.6
0.73	1.6
0.63	1.6
0.63	1.7
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0.54	1.7
0.54	1.7
0.54	1.7
0.54	1.6
0.54	1.6
0.46	1.6
0.46	1.7
0.46	1.6
0.38	1.7
0.38	1.7
0.31	1.7

0.31	1.6
0.23	1.7
0.23	1.6
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036012P520CPTU538

Company information:

Name: G.S.C. Indagini Geognostiche
 Address: Via Carpi 21
 Zip code: 42018
 City: San Martino in Rio
 P.IVA: 02322840204
 E-Mail: gsc.inge@gmail.com
 Phone number: +393334273452
 Fax number:

Site information:

Name: Finale Emilia (MO) - Microzonazione
 Date: 10/07/2020
 Commissioner: Prof. Caputo Riccardo

Locality:

Test information:

Name: CPTU004
 Location: MASSA FINALESE_CAMPO
 Date: 10/07/2020 15:19:14

Prehole mode:

Prehole depth [cm]: 0
 Hydrostatic line [cm]: 460
 Ground level [m]: 0

Latitude: 44.856298

Longitude: 11.20541

Operator:

Comments:

Probe code: MKJ608

	Qc	Fs	Speed	
Factors:	188220		31336	10
Zeros:	3966		7831	0

Depth [m]	Qc [MPa]	Fs [KPa]	U2 [KPa]
0.01	0.16	14.87	9.29
0.02	1.05	17.9	75.25
0.03	1.05	17.9	75.25
0.04	3.47	22.37	5.56
0.05	3.47	22.37	5.56
0.06	4.83	26.17	2.1
0.07	5.06	27.48	1.91
0.08	5.3	28.59	1.64
0.09	5.7	32.26	1.91
0.1	5.91	32.01	1.37
0.11	5.79	33.06	1
0.12	5.75	33.64	0.82
0.13	5.64	31.69	0.64
0.14	5.64	31.69	0.64

0.15	5.58	32.61	0.64
0.16	5.67	32.49	0.64
0.17	5.75	32.26	0.64
0.18	5.82	33.6	0.36
0.19	5.78	36.6	0.27
0.2	5.78	36.6	0.27
0.21	5.47	41.45	0.09
0.22	5.38	43.72	0.09
0.23	5.36	44.74	0.18
0.24	5.34	45.83	0.18
0.25	5.29	48.28	0.18
0.26	5.29	48.28	0.18
0.27	5.25	50.45	0.27
0.28	5.25	52.66	0.27
0.29	5.21	52.85	0.27
0.3	5.25	56.13	0.46
0.31	5.32	56.87	0.46
0.32	5.34	57.25	0.46
0.33	5.34	57	0.09
0.34	5.24	57.67	0.09
0.35	5.23	60.79	0.46
0.36	5.23	69.7	0.09
0.37	5.2	73.11	-0.18
0.38	5.18	73.91	-0.27
0.39	5.12	80.93	0
0.4	5.03	90.47	0
0.41	5.03	90.47	0
0.42	4.88	99.09	0
0.43	4.81	103.2	0.09
0.44	4.69	114.41	-0.18
0.45	4.52	119.48	-0.27
0.46	4.36	127.52	-0.09
0.47	4.27	129.56	0.09
0.48	4.25	131.22	0
0.49	4.05	134.7	-0.09
0.5	4	132.24	0.27
0.51	3.8	129.47	-0.27
0.52	3.69	128.67	0.18
0.53	3.65	125.61	0.18
0.54	3.67	120.69	0.36
0.55	3.68	111.95	0.64
0.56	3.67	107.54	0.91
0.57	3.76	98.67	2.73
0.58	3.89	95.29	3.55
0.59	4.05	90.41	0.09
0.6	4.15	88.94	-1.46
0.61	4.17	90.73	-1

0.62	4.11	93.41	-1.46
0.63	4.11	101.51	-1.46
0.64	4.15	106.75	-2.46
0.65	4.17	110.32	-3.01
0.66	4.14	119.16	-3.37
0.67	4.15	124.94	-2.92
0.68	4.11	137.22	-2.73
0.69	4.08	143.89	-4.46
0.7	4.05	152.19	-4.01
0.71	4.06	160.42	-2.1
0.72	4.04	174.3	-8.38
0.73	4.1	181.26	-11.75
0.74	4.15	190.9	-3.74
0.75	4.13	195.62	-2.55
0.76	4.14	200.54	-3.37
0.77	4.11	208.64	-3.74
0.78	4.14	213.49	-5.92
0.79	4.09	220.58	-13.76
0.8	4.02	226	-5.74
0.81	3.96	227.85	-8.65
0.82	3.9	226.96	-2.55
0.83	3.84	220.77	-1.82
0.84	3.83	214.48	-1.73
0.85	3.76	202.99	-1.46
0.86	3.75	195.94	-1.37
0.87	3.65	184.1	-1.28
0.88	3.58	176.79	-1.37
0.89	3.5	168.59	-1.18
0.9	3.43	159.72	-1.18
0.91	3.22	141.37	-1
0.92	3.09	132.72	-1.09
0.93	2.85	113.54	-1
0.94	2.73	102.98	-0.82
0.95	2.71	95.35	-0.82
0.96	2.69	85.62	-0.82
0.97	2.7	80.93	-0.82
0.98	2.73	77.16	-0.82
0.99	2.79	70.94	-0.91
1	2.81	67.27	-0.91
1.01	2.82	63.73	-0.82
1.02	2.82	58.62	-1.37
1.03	2.8	56.58	-1.73
1.04	2.77	54.19	-1.91
1.05	2.71	53.2	-2
1.06	2.61	51.35	-2.28
1.07	2.54	50.55	-2.19
1.08	2.54	50.55	-2.19

1.09	2.54	50.55	-2.19
1.1	2.04	47.17	-0.27
1.11	2.04	47.17	-0.27
1.12	2.04	47.17	-0.27
1.13	0.89	0.13	-0.27
1.14	2.42	46.59	-2.46
1.15	2.43	48.22	-2
1.16	2.39	48.25	-1.64
1.17	2.34	48.19	-1.28
1.18	2.26	48.92	-1
1.19	2.21	48.7	-0.73
1.2	2.14	48.86	-0.73
1.21	2.1	47.74	-0.73
1.22	2.07	46.21	-0.64
1.23	2.04	43.78	-0.55
1.24	2.02	42.57	-0.64
1.25	1.97	40.66	-0.55
1.26	1.94	39.86	-0.64
1.27	1.91	39.03	-0.55
1.28	1.85	36.67	-0.64
1.29	1.82	36.12	-0.73
1.3	1.81	35.39	-0.82
1.31	1.8	34.72	-1
1.32	1.81	32.77	-0.64
1.33	1.81	31.75	-0.82
1.34	1.83	31.47	-0.91
1.35	1.84	32.61	-1.09
1.36	1.83	38.45	-0.82
1.37	1.82	41.68	-0.64
1.38	1.79	44.23	-0.91
1.39	1.74	47.17	0
1.4	1.72	47.42	-0.27
1.41	1.71	47.71	-0.55
1.42	1.69	48.73	-0.91
1.43	1.66	49.81	-1.28
1.44	1.55	53.42	-2.19
1.45	1.5	55.53	-2.64
1.46	1.48	57.35	-2.82
1.47	1.48	61.46	-2.92
1.48	1.5	62.45	-2.82
1.49	1.54	63.31	-2.64
1.5	1.57	64.14	-2.55
1.51	1.6	64.3	-2.64
1.52	1.56	64.37	-3.01
1.53	1.51	62.87	-3.46
1.54	1.51	62.87	-3.46
1.55	1.34	62.23	-5.01

1.56	1.29	63.31	-5.56
1.57	1.23	64.3	-5.83
1.58	1.15	66.57	-6.1
1.59	1.11	67.24	-5.92
1.6	1.11	67.24	-5.92
1.61	1.01	67.65	-5.83
1.62	0.94	67.49	-5.01
1.63	0.91	67.08	-2.82
1.64	0.9	66.38	-0.73
1.65	0.93	63.73	3.55
1.66	0.97	62.2	5.47
1.67	1.03	61.05	6.56
1.68	1.09	59.77	7.11
1.69	1.16	58.94	7.38
1.7	1.24	56.2	6.65
1.71	1.22	55.05	5.83
1.72	1.15	52.66	4.1
1.73	1.15	52.66	4.1
1.74	1.06	52.81	2.73
1.75	1.01	52.46	2.46
1.76	1	51.76	2.28
1.77	1.01	51.31	2.64
1.78	1.02	52.11	3.28
1.79	1.02	52.11	3.28
1.8	1	53.29	4.55
1.81	1	53.26	4.55
1.82	1.01	53.87	5.65
1.83	1.04	54.86	7.65
1.84	1.05	57.06	12.39
1.85	1.05	57.06	12.39
1.86	1.07	53.68	17.67
1.87	1.08	51.12	17.4
1.88	1.11	47.61	16.4
1.89	1.13	47.58	16.4
1.9	1.13	48.16	16.76
1.91	1.13	49.14	16.58
1.92	1.09	51.76	18.13
1.93	1.09	51.03	18.95
1.94	1.11	50.17	20.77
1.95	1.15	49.21	25.87
1.96	1.15	48.79	26.15
1.97	1.16	48.57	25.6
1.98	1.16	48.57	25.6
1.99	1.15	47.13	23.5
2	1.14	46.97	22.5
2.01	1.1	47.61	21.32
2.02	1.02	48.99	19.59

2.03	0.99	48.35	18.95
2.04	0.99	48.35	18.95
2.05	0.9	46.66	16.94
2.06	0.86	45.92	15.67
2.07	0.79	45.32	14.03
2.08	0.78	45.09	13.3
2.09	0.77	44.65	12.66
2.1	0.77	44.65	12.66
2.11	0.75	43.53	13.48
2.12	0.75	42.41	14.58
2.13	0.75	42.41	14.58
2.14	0.75	42.41	14.58
2.15	0.9	45	20.86
2.16	0.97	44.87	38.35
2.17	1.03	44.26	40.72
2.18	1.21	43.18	39.54
2.19	1.32	43.15	37.53
2.2	1.43	44.01	30.88
2.21	1.55	45.35	20.41
2.22	1.64	46.11	15.03
2.23	1.77	47.1	-3.46
2.24	1.78	46.78	-2.19
2.25	1.76	46.05	-1.64
2.26	1.68	44.8	-1.55
2.27	1.61	44.23	-1.64
2.28	1.54	44.01	-1.82
2.29	1.49	43.62	-1.73
2.3	1.47	43.21	-1.37
2.31	1.48	43.3	-1.09
2.32	1.48	43.59	-1.09
2.33	1.46	45.83	-0.36
2.34	1.5	47.77	0.09
2.35	1.54	49.4	0.18
2.36	1.55	51.12	0.36
2.37	1.61	49.66	1.09
2.38	1.64	48.57	1.37
2.39	1.66	47.68	1.46
2.4	1.67	47.04	1.64
2.41	1.71	45.73	2.1
2.42	1.75	44.29	2.37
2.43	1.77	42.67	2.46
2.44	1.71	40.82	2
2.45	1.63	40.5	1.37
2.46	1.51	40.21	0.36
2.47	1.35	40.11	-0.91
2.48	1.12	39.28	-2.64
2.49	1.05	39.63	-3.19

2.5	1	40.43	-3.64
2.51	0.97	43.75	-2.73
2.52	0.95	46.53	-0.18
2.53	0.89	50.42	2.55
2.54	0.84	54.06	12.03
2.55	0.88	57.03	94.74
2.56	0.96	55.37	116.52
2.57	1.17	51.86	126.63
2.58	1.32	50.96	126.72
2.59	1.48	50.23	124.35
2.6	1.62	49.59	89.64
2.61	1.7	48.76	44.18
2.62	1.67	47.13	11.75
2.63	1.59	47.9	8.47
2.64	1.49	49.34	8.38
2.65	1.41	50.8	12.21
2.66	1.29	56.32	24.23
2.67	1.2	59.48	29.15
2.68	1.13	60.79	35.35
2.69	1.1	57.41	42.73
2.7	1.09	57.19	46.92
2.71	1.07	57.95	48.01
2.72	1.05	59.01	47.74
2.73	1.07	59.39	51.02
2.74	1.08	59.58	53.11
2.75	1.09	59.74	55.57
2.76	1.11	57.57	61.22
2.77	1.16	55.72	61.77
2.78	1.13	53.26	60.67
2.79	1.13	51.31	60.67
2.8	1.12	52.18	63.77
2.81	1.11	52.18	62.59
2.82	1.12	49.69	57.85
2.83	1.11	51.22	56.48
2.84	1.09	53.29	55.02
2.85	1.08	53.84	54.75
2.86	1.07	55.34	52.93
2.87	1.06	55.5	51.93
2.88	1.04	55.97	50.56
2.89	1.03	55.53	47.92
2.9	1.03	56.61	46.55
2.91	1.01	58.88	45.55
2.92	0.99	60.98	44.91
2.93	0.97	62.52	45.73
2.94	0.97	62.2	49.47
2.95	0.97	59.99	51.93
2.96	0.97	59.99	51.93

2.97	0.98	56.8	53.93
2.98	0.98	54.95	53.84
2.99	1	52.59	54.48
3	1.01	51.67	53.2
3.01	1.03	50.87	50.74
3.02	1.03	51.28	48.19
3.03	1.01	52.43	44.09
3.04	0.99	52.91	42.36
3.05	0.97	53.29	41.09
3.06	0.93	52.88	38.72
3.07	0.92	53.01	37.9
3.08	0.91	53.93	36.9
3.09	0.9	54.83	35.71
3.1	0.88	58.53	35.62
3.11	0.88	58.53	35.62
3.12	0.88	58.53	35.62
3.13	0.93	60.51	37.72
3.14	0.92	61.53	38.63
3.15	0.92	61.02	39.63
3.16	0.95	57.67	41.63
3.17	0.96	56.48	42.36
3.18	0.96	56.01	43
3.19	0.95	55.94	44.09
3.2	0.92	54.89	44.46
3.21	0.92	54.03	44.46
3.22	0.91	53.13	44
3.23	0.9	51.44	43
3.24	0.9	51.44	43
3.25	0.89	50.07	42.36
3.26	0.88	49.4	41.91
3.27	0.86	48.73	42.63
3.28	0.85	48.54	42.63
3.29	0.84	47.93	42.82
3.3	0.84	47.93	42.82
3.31	0.86	47.23	42.27
3.32	0.85	46.91	42.27
3.33	0.85	47.01	43.82
3.34	0.86	46.66	44.27
3.35	0.88	46.08	44.27
3.36	0.88	46.08	44.27
3.37	0.88	45.99	43.27
3.38	0.88	46.11	42.91
3.39	0.89	46.72	42.45
3.4	0.9	46.59	42.09
3.41	0.91	46.34	41.63
3.42	0.92	46.56	41.81
3.43	0.96	47.39	41.72

3.44	0.98	47.64	42
3.45	1	48.06	42.45
3.46	1.04	49.27	42.45
3.47	1.05	50.1	42.18
3.48	1.06	51.16	41.81
3.49	1.06	51.16	41.81
3.5	1.04	53.74	50.2
3.51	1.01	56.9	86.36
3.52	1.01	57.89	89.19
3.53	1.01	58.3	87.46
3.54	1.03	58.08	82.54
3.55	1.03	58.72	80.08
3.56	1.02	59.23	77.71
3.57	1.01	60.06	76.07
3.58	1.01	61.18	73.15
3.59	1	61.14	71.33
3.6	0.99	61.69	70.24
3.61	0.97	61.14	69.69
3.62	0.97	60.38	69.51
3.63	0.97	59.64	70.33
3.64	0.97	58.4	73.24
3.65	0.99	56.84	74.97
3.66	0.99	56.55	76.16
3.67	0.98	56.77	76.52
3.68	0.98	56.23	76.07
3.69	0.99	54.92	75.89
3.7	1	53.52	74.43
3.71	0.99	53.61	77.43
3.72	0.99	53.9	77.53
3.73	0.99	53.1	77.71
3.74	0.99	52.69	77.16
3.75	0.99	52.4	76.34
3.76	0.99	52.11	75.07
3.77	0.99	52.27	72.52
3.78	0.98	52.5	71.15
3.79	0.97	53.23	69.78
3.8	0.95	53.87	66.78
3.81	0.93	54.76	65.41
3.82	0.91	55.81	64.41
3.83	0.89	56.36	63.59
3.84	0.88	55.56	63.04
3.85	0.88	54.89	62.59
3.86	0.88	54.54	62.22
3.87	0.88	54.25	61.58
3.88	0.88	53.87	61.13
3.89	0.89	53.68	60.95
3.9	0.89	53.39	61.4

3.91	0.89	53.01	61.95
3.92	0.9	52.46	61.67
3.93	0.92	51.95	61.13
3.94	0.91	51.7	60.58
3.95	0.9	51.76	59.85
3.96	0.89	51.54	59.4
3.97	0.9	51.6	59.12
3.98	0.9	51.67	58.85
3.99	0.91	51.98	57.76
4	0.91	52.59	57.21
4.01	0.91	53.29	57.94
4.02	0.89	54.47	58.21
4.03	0.88	55.05	57.85
4.04	0.9	54.47	57.21
4.05	0.95	54.79	60.03
4.06	0.98	54.98	61.22
4.07	1.01	54.95	62.4
4.08	1.05	55.5	63.59
4.09	1.12	57.22	66.05
4.1	1.12	57.22	66.05
4.11	1.12	57.22	66.05
4.12	1.22	58.46	64.86
4.13	1.23	59.48	66.05
4.14	1.25	60.76	65.86
4.15	1.29	62.84	65.14
4.16	1.3	64.46	64.68
4.17	1.31	66.57	64.41
4.18	1.33	71.26	68.05
4.19	1.35	73.59	68.87
4.2	1.35	75.54	69.6
4.21	1.34	78.54	76.25
4.22	1.33	82.33	80.81
4.23	1.32	86.99	95.47
4.24	1.33	88.78	100.48
4.25	1.34	89.16	100.94
4.26	1.33	89.71	99.3
4.27	1.34	92.77	97.11
4.28	1.35	93.63	96.75
4.29	1.37	94.27	96.93
4.3	1.39	95	95.47
4.31	1.4	95.45	95.2
4.32	1.39	96.37	94.11
4.33	1.39	96.76	93.38
4.34	1.4	96.41	93.47
4.35	1.46	95.86	94.29
4.36	1.47	96.73	94.47
4.37	1.5	97.72	95.56

4.38	1.55	99.63	101.85
4.39	1.57	100.36	104.67
4.4	1.56	101.35	102.94
4.41	1.56	102.95	102.21
4.42	1.6	103.62	104.13
4.43	1.6	103.36	101.3
4.44	1.61	104.42	104.76
4.45	1.63	104.64	108.59
4.46	1.64	105.6	119.7
4.47	1.68	108.92	154.87
4.48	1.71	108.76	162.7
4.49	1.76	108.57	191.31
4.5	1.8	107.61	182.47
4.51	1.82	104.93	179.38
4.52	1.88	104.86	177.19
4.53	1.88	104.38	172.09
4.54	1.92	107.19	171.45
4.55	1.93	107.51	167.81
4.56	1.93	108.5	163.43
4.57	1.95	112.71	159.97
4.58	1.95	112.71	159.97
4.59	1.92	116.32	165.89
4.6	1.92	118.11	176.46
4.61	1.88	120.12	170.45
4.62	1.89	119.73	163.8
4.63	1.89	118.9	158.88
4.64	1.86	120.76	151.86
4.65	1.85	120.15	147.03
4.66	1.81	120.02	141.57
4.67	1.81	120.02	141.57
4.68	1.68	122.54	132.37
4.69	1.65	122.16	131.46
4.7	1.62	120.28	132.19
4.71	1.58	118.33	129.63
4.72	1.54	116.29	127.63
4.73	1.54	116.29	127.63
4.74	1.48	114.88	130.91
4.75	1.46	114.72	136.47
4.76	1.44	113.26	138.93
4.77	1.42	112.52	145.21
4.78	1.4	110.19	148.49
4.79	1.39	105.63	147.03
4.8	1.44	93.57	146.76
4.81	1.48	89.86	145.94
4.82	1.49	87.47	145.12
4.83	1.49	84.79	141.75
4.84	1.48	83.2	140.2

4.85	1.47	82.27	138.56
4.86	1.44	79.84	136.74
4.87	1.38	75.73	133.01
4.88	1.35	77.64	131
4.89	1.32	79.65	129.45
4.9	1.3	78.79	129.18
4.91	1.22	83.13	127.45
4.92	1.18	86.48	132.64
4.93	1.14	89.51	137.56
4.94	1.1	90.25	144.85
4.95	1.1	90.09	147.58
4.96	1.11	89.26	150.68
4.97	1.11	88.43	153.96
4.98	1.09	86.96	159.33
4.99	1.09	86.96	159.33
5	1.09	83.42	158.79
5.01	1.1	77.36	161.7
5.02	1.1	74.61	160.24
5.03	1.1	70.27	157.97
5.04	1.11	66.19	155.05
5.05	1.08	63.86	148.04
5.06	1.06	62.07	145.12
5.07	1.05	61.18	140.66
5.08	0.99	63.41	135.47
5.09	0.97	65.07	134.46
5.1	0.97	65.07	134.46
5.11	0.97	65.07	134.46
5.12	0.91	52.78	297.17
5.13	0.9	51.47	305.27
5.14	0.91	50.13	323.31
5.15	0.91	49.3	327.87
5.16	0.91	49.08	332.15
5.17	0.9	49.02	334.15
5.18	0.89	48.83	346.45
5.19	0.89	48	350
5.2	0.91	45.09	372.87
5.21	0.94	43.91	395.55
5.22	0.96	42.92	407.22
5.23	0.98	42.03	401.11
5.24	1.04	37.5	376.61
5.25	1.07	35.84	360.66
5.26	1.08	34.69	344.99
5.27	1.12	35.01	318.48
5.28	1.12	36.09	312.56
5.29	1.12	37.98	310.19
5.3	1.11	39.95	310.01
5.31	1.06	43.82	299.72

5.32	1.04	45.38	293.34
5.33	1	47.13	287.24
5.34	0.96	48.99	280.95
5.35	0.96	48.99	280.95
5.36	0.94	51.35	272.21
5.37	0.9	52.85	262.91
5.38	0.82	57.06	262.46
5.39	0.79	58.02	258.18
5.4	0.76	58.3	250.61
5.41	0.73	57.82	245.24
5.42	0.69	55.94	244.24
5.43	0.66	54.67	244.88
5.44	0.66	54.67	244.88
5.45	0.63	51.12	253.44
5.46	0.61	46.46	266.83
5.47	0.61	44.29	273.85
5.48	0.62	42.7	278.13
5.49	0.62	40.11	280.68
5.5	0.63	35.71	279.04
5.51	0.63	33.89	281.13
5.52	0.63	32.23	293.61
5.53	0.62	31.72	295.44
5.54	0.61	30.99	289.42
5.55	0.59	29.84	282.23
5.56	0.56	28.63	272.57
5.57	0.53	26.81	263.37
5.58	0.51	26.36	251.34
5.59	0.49	26.33	250.98
5.6	0.47	26.61	253.53
5.61	0.46	26.33	254.62
5.62	0.45	26.2	257.45
5.63	0.44	25.85	259.82
5.64	0.42	24.09	262.37
5.65	0.41	22.5	263.37
5.66	0.41	21.38	262.46
5.67	0.41	20.46	260.27
5.68	0.41	18.13	260.82
5.69	0.42	17.42	262.82
5.7	0.42	17.42	262.82
5.71	0.44	15.67	264.55
5.72	0.44	15.25	264.1
5.73	0.45	15.03	266.01
5.74	0.46	14.81	267.74
5.75	0.46	14.46	267.29
5.76	0.48	14.23	271.93
5.77	0.49	14.23	277.22
5.78	0.53	13.98	280.77

5.79	0.54	14.33	281.68
5.8	0.54	14.87	280.5
5.81	0.54	15.51	273.57
5.82	0.52	16.24	267.56
5.83	0.49	16.24	261.36
5.84	0.48	15.67	263.82
5.85	0.48	15.32	264.92
5.86	0.48	15.8	265.46
5.87	0.49	15.89	268.56
5.88	0.49	16.12	270.2
5.89	0.5	15.92	269.65
5.9	0.52	16.24	274.85
5.91	0.55	17.52	280.4
5.92	0.55	18.45	262.64
5.93	0.55	18.96	257.45
5.94	0.53	20.74	246.97
5.95	0.5	21.29	240.05
5.96	0.48	21.41	236.4
5.97	0.44	20.42	239.96
5.98	0.43	19.5	241.78
5.99	0.41	18.13	244.06
6	0.3	16.63	211.81
6.01	0.41	17.04	254.99
6.02	0.44	16.82	260.27
6.03	0.45	17.97	258.72
6.04	0.44	17.87	257.63
6.05	0.43	18.22	260.54
6.06	0.43	18.16	275.58
6.07	0.43	18.16	275.58
6.08	0.41	16.02	277.12
6.09	0.41	14.23	274.94
6.1	0.41	14.23	274.94
6.11	0.41	14.23	274.94
6.12	0.55	23.68	225.65
6.13	0.52	24.73	232.4
6.14	0.49	24.41	231.39
6.15	0.45	21.99	240.69
6.16	0.44	20.26	252.16
6.17	0.44	20.26	252.16
6.18	0.44	19.56	266.92
6.19	0.44	19.08	268.93
6.2	0.44	18	270.84
6.21	0.44	18	270.84
6.22	0.45	16.47	274.39
6.23	0.45	15.96	273.03
6.24	0.45	15.48	272.75
6.25	0.44	15	278.31

6.26	0.44	14.58	280.5
6.27	0.44	13.72	284.05
6.28	0.45	13.37	288.6
6.29	0.46	13.24	291.7
6.3	0.46	13.24	291.34
6.31	0.46	12.73	287.6
6.32	0.47	12.54	288.42
6.33	0.48	12.45	287.6
6.34	0.48	12.96	286.87
6.35	0.48	13.69	284.87
6.36	0.48	13.91	285.14
6.37	0.49	14.01	287.33
6.38	0.5	14.04	287.05
6.39	0.52	14.04	287.51
6.4	0.49	13.91	279.68
6.41	0.45	14.23	264.28
6.42	0.44	14.11	258.54
6.43	0.44	14.11	258.54
6.44	0.4	14.87	247.79
6.45	0.38	15.35	243.05
6.46	0.35	15.76	236.13
6.47	0.35	16.28	233.31
6.48	0.33	16.91	232.4
6.49	0.33	18.29	231.58
6.5	0.33	19.15	234.58
6.51	0.35	19.5	242.42
6.52	0.35	19.5	242.42
6.53	0.47	17.23	313.56
6.54	0.52	16.31	294.98
6.55	0.56	15.57	254.35
6.56	0.6	15.16	228.02
6.57	0.64	15.19	180.83
6.58	0.62	15.73	168.99
6.59	0.56	16.18	164.34
6.6	0.5	17.26	172.63
6.61	0.48	17.97	180.56
6.62	0.45	18.99	196.14
6.63	0.41	19.12	210.17
6.64	0.38	18.29	222.65
6.65	0.36	15.73	263.82
6.66	0.37	16.21	278.13
6.67	0.38	16.95	291.52
6.68	0.41	18.09	308.01
6.69	0.41	18.09	308.01
6.7	0.45	17.3	310.1
6.71	0.46	16.56	302.54
6.72	0.46	15.25	291.34

6.73	0.46	13.79	292.61
6.74	0.45	12.89	296.71
6.75	0.43	11.46	300.36
6.76	0.43	10.53	303.73
6.77	0.43	10.12	306.19
6.78	0.43	10.12	306.19
6.79	0.44	10.44	315.75
6.8	0.44	10.66	315.75
6.81	0.44	11.14	314.75
6.82	0.45	11.65	313.38
6.83	0.45	12.35	308.65
6.84	0.45	14.11	306.28
6.85	0.45	14.93	306.28
6.86	0.45	15.13	309.37
6.87	0.46	15.19	315.57
6.88	0.46	14.68	318.21
6.89	0.46	13.98	321.95
6.9	0.47	13.56	326.05
6.91	0.49	13.05	334.34
6.92	0.5	12.86	340.89
6.93	0.52	12.73	348.46
6.94	0.56	12.99	367.04
6.95	0.56	12.99	367.04
6.96	0.59	12.25	375.51
6.97	0.61	12.13	380.8
6.98	0.64	12.64	401.93
6.99	0.66	12.45	410.13
7	0.69	11.87	421.7
7.01	0.77	11.26	447.85
7.02	0.77	11.26	447.85
7.03	0.85	13.08	483.92
7.04	0.9	14.04	499.68
7.05	0.95	14.81	507.97
7.06	1.02	16.69	507.24
7.07	1.04	17.74	497.68
7.08	1.05	19.18	445.02
7.09	1.05	21.16	452.49
7.1	1.05	21.16	452.49
7.11	1.05	21.16	452.49
7.12	1.09	27.35	242.51
7.13	1.06	32.9	200.6
7.14	1.04	35.29	179.74
7.15	0.98	41.52	174.73
7.16	0.92	45.12	178.92
7.17	0.89	48.28	200.42
7.18	0.86	50.61	211.44
7.19	0.8	54.44	274.03

7.2	0.78	56.48	291.7
7.21	0.75	56.9	307.01
7.22	0.72	56.68	327.32
7.23	0.72	55.46	341.81
7.24	0.73	53.58	355.02
7.25	0.73	51.76	364.03
7.26	0.76	45.12	384.08
7.27	0.77	42.41	385.72
7.28	0.77	39.41	384.71
7.29	0.77	36.64	383.71
7.3	0.77	36.64	383.71
7.31	0.79	29.1	412.41
7.32	0.79	29.1	412.41
7.33	0.83	25.37	438.92
7.34	0.88	22.82	443.38
7.35	0.88	21.96	447.57
7.36	0.89	21.16	458.41
7.37	0.91	20.68	465.52
7.38	0.93	20.23	486.2
7.39	0.98	20.36	538.58
7.4	1.05	20.2	561.63
7.41	1.15	18.96	597.07
7.42	1.35	19.4	656.55
7.43	1.45	20.1	664.3
7.44	1.52	21.09	631.78
7.45	1.56	21.92	528.83
7.46	1.64	24.83	407.85
7.47	1.65	27.64	278.04
7.48	1.66	32.33	271.29
7.49	1.65	38.07	279.58
7.5	1.6	50.2	288.42
7.51	1.56	55.97	279.04
7.52	1.56	55.97	279.04
7.53	1.5	64.81	295.71
7.54	1.47	72.31	346.09
7.55	1.45	76.53	312.11
7.56	1.43	79.56	305.37
7.57	1.42	82.97	301.9
7.58	1.43	88.21	319.58
7.59	1.42	90.6	342.99
7.6	1.43	91.97	341.26
7.61	1.43	89.19	353.38
7.62	1.41	88.49	367.77
7.63	1.39	87.5	361.57
7.64	1.38	86.32	359.11
7.65	1.41	83.99	357.57
7.66	1.45	80.39	348.64

7.67	1.45	80.04	346.63
7.68	1.35	80.96	332.24
7.69	1.35	80.96	332.24
7.7	1.31	79.43	312.47
7.71	1.26	77.51	290.06
7.72	1.26	77.48	293.8
7.73	1.18	75.6	287.6
7.74	1.16	75.63	293.52
7.75	1.13	76.27	288.79
7.76	1.08	76.53	281.59
7.77	0.97	76.53	273.03
7.78	0.97	76.53	273.03
7.79	0.88	74.2	263
7.8	0.8	71.74	259.63
7.81	0.78	70.14	258.72
7.82	0.75	68.96	258.63
7.83	0.73	68.07	257.27
7.84	0.72	67.05	258.9
7.85	0.68	61.85	262.28
7.86	0.67	59.29	269.56
7.87	0.66	57	281.41
7.88	0.68	52.08	316.48
7.89	0.7	49.66	336.8
7.9	0.75	46.69	353.65
7.91	0.8	43.56	364.4
7.92	0.88	37.94	385.72
7.93	0.89	36.09	386.54
7.94	0.9	33.99	357.93
7.95	0.92	31.69	364.58
7.96	0.92	31.69	364.58
7.97	0.95	27.25	404.66
7.98	0.95	27.25	404.66
7.99	0.94	28.91	484.38
8	0.95	31.15	554.98
8.01	0.99	32.49	583.86
8.02	1.05	32.93	605.08
8.03	1.05	32.93	605.08
8.04	1.24	32.93	654.91
8.05	1.3	33.06	668.49
8.06	1.34	33.95	662.93
8.07	1.4	33.51	593.97
8.08	1.52	33.99	581.67
8.09	1.56	34.15	477.45
8.1	1.56	34.15	477.45
8.11	1.56	34.15	477.45
8.12	1.66	32.87	396.37
8.13	1.68	35.07	415.41

8.14	1.68	37.11	404.03
8.15	1.69	43.08	402.02
8.16	1.69	47.33	414.5
8.17	1.69	51.73	398.74
8.18	1.69	56.32	389
8.19	1.68	64.88	356.65
8.2	1.68	64.88	356.65
8.21	1.68	71.77	329.69
8.22	1.66	76.01	312.84
8.23	1.59	84.5	360.48
8.24	1.56	88.68	349.37
8.25	1.54	91.72	310.65
8.26	1.49	95.51	277.76
8.27	1.47	96.69	257.36
8.28	1.42	99.47	244.69
8.29	1.38	101.77	224.74
8.3	1.26	104.64	218.09
8.31	1.21	105.44	236.77
8.32	1.17	105.47	242.51
8.33	1.15	104.67	244.88
8.34	1.14	104.77	243.6
8.35	1.16	103.27	263.64
8.36	1.2	101.16	279.95
8.37	1.26	95.58	300.72
8.38	1.28	93.25	283.32
8.39	1.24	91.01	230.03
8.4	1.24	91.01	230.03
8.41	1.23	84.15	235.22
8.42	1.23	84.15	235.22
8.43	1.2	81.06	203.88
8.44	1.16	80.48	184.75
8.45	1.15	80.32	169.45
8.46	1.12	80.71	150.04
8.47	0.99	82.68	107.68
8.48	0.91	83.8	93.47
8.49	0.86	83.42	88.37
8.5	0.75	80.26	69.14
8.51	0.72	79.3	58.94
8.52	0.7	80.04	46.46
8.53	0.67	81.03	45.82
8.54	0.61	83.35	44
8.55	0.58	84.02	42.27
8.56	0.57	84.6	47.74
8.57	0.55	82.27	57.67
8.58	0.53	79.72	60.31
8.59	0.53	79.72	60.31
8.6	0.51	73.84	67.78

8.61	0.5	70.88	70.42
8.62	0.52	64.72	76.34
8.63	0.52	62.23	74.61
8.64	0.51	59.99	65.05
8.65	0.51	57.67	72.79
8.66	0.48	53.77	74.61
8.67	0.47	52.59	75.89
8.68	0.47	52.59	75.89
8.69	0.42	50.71	77.16
8.7	0.4	51	77.62
8.71	0.39	51.67	78.35
8.72	0.37	51.86	79.26
8.73	0.36	51.67	85.27
8.74	0.36	51.31	86.18
8.75	0.35	50.64	87.55
8.76	0.34	49.18	91.37
8.77	0.33	47.77	93.47
8.78	0.33	46.53	95.56
8.79	0.33	45.03	97.48
8.8	0.32	40.88	101.21
8.81	0.31	39.22	104.13
8.82	0.31	37.59	108.04
8.83	0.31	34.43	123.62
8.84	0.32	33	135.28
8.85	0.32	31.82	148.86
8.86	0.33	31.11	170.08
8.87	0.36	30.16	197.78
8.88	0.37	29.77	204.43
8.89	0.37	29.58	209.89
8.9	0.38	29.74	224.38
8.91	0.39	29.9	228.48
8.92	0.4	30.09	237.22
8.93	0.41	30.25	248.16
8.94	0.43	30.99	277.4
8.95	0.44	31.34	278.04
8.96	0.44	31.85	270.66
8.97	0.43	33.03	252.07
8.98	0.42	33.54	244.33
8.99	0.41	34.15	237.77
9	0.39	34.66	231.39
9.01	0.37	35.52	231.67
9.02	0.37	35.68	239.32
9.03	0.37	35.81	250.34
9.04	0.37	35.84	258.27
9.05	0.37	35.84	258.27
9.06	0.38	35.1	260.09
9.07	0.38	35.1	260.09

9.08	0.38	34.08	252.07
9.09	0.38	33.67	250.71
9.1	0.38	33.67	250.71
9.11	0.38	33.67	250.71
9.12	0.46	26.26	298.44
9.13	0.45	26.04	299.54
9.14	0.43	24.6	299.81
9.15	0.42	23.26	298.72
9.16	0.41	21.86	298.17
9.17	0.41	20.3	298.26
9.18	0.42	16.59	302.81
9.19	0.43	15.22	307.83
9.2	0.46	12.35	321.4
9.21	0.48	11.04	336.61
9.22	0.53	10.21	359.3
9.23	0.58	9.41	379.25
9.24	0.64	8.94	394.55
9.25	0.75	8.36	409.31
9.26	0.79	8.55	414.14
9.27	0.84	9.03	419.7
9.28	0.9	9.83	429.99
9.29	1.04	12.25	459.42
9.3	1.05	13.44	453.22
9.31	1.05	13.44	453.22
9.32	1.05	17.23	418.24
9.33	1.05	19.18	414.5
9.34	1.04	21.35	411.86
9.35	1.04	24.06	422.79
9.36	1.12	28.56	471.17
9.37	1.17	30.48	504.24
9.38	1.26	32.65	540.58
9.39	1.49	33.92	588.32
9.4	1.58	34.27	600.44
9.41	1.66	35.45	597.07
9.42	1.72	36.95	586.59
9.43	1.77	38.49	544.5
9.44	1.79	43.75	366.49
9.45	1.81	48.32	419.06
9.46	1.84	50.96	440.47
9.47	1.85	57.57	411.5
9.48	1.85	57.57	411.5
9.49	1.86	64.91	394.92
9.5	1.88	73.65	389
9.51	1.9	77.71	384.99
9.52	1.93	82.14	375.51
9.53	1.95	92.23	369.41
9.54	1.94	97.75	382.34

9.55	1.92	103.36	394.64
9.56	1.91	106.75	401.11
9.57	1.95	108.85	411.68
9.58	1.98	109.01	422.16
9.59	2.01	109.55	427.26
9.6	2.09	107.35	410.22
9.61	2.12	106.87	407.22
9.62	2.13	107.26	395.46
9.63	2.17	107.83	397.56
9.64	2.13	110.64	439.74
9.65	2.14	113.67	494.58
9.66	2.08	116.35	476.82
9.67	2.14	118.87	590.6
9.68	2.2	107.54	605.81
9.69	2.26	106.78	670.04
9.7	2.26	106.78	670.04
9.71	2.3	107.61	648.54
9.72	2.28	108.6	652.09
9.73	2.27	109.01	652.46
9.74	2.26	109.2	658.92
9.75	2.22	108.82	717.04
9.76	2.22	108.15	752.57
9.77	2.19	107.26	752.12
9.78	2.18	100.78	753.58
9.79	2.17	90.95	770.98
9.8	2.16	88.88	784.82
9.81	2.14	86.77	793.2
9.82	2.14	83.67	806.6
9.83	2.15	82.49	815.89
9.84	2.16	82.72	816.16
9.85	2.14	82.08	810.88
9.86	2.13	81.06	807.78
9.87	2.15	81.06	800.58
9.88	2.13	80.87	793.11
9.89	2.1	80.45	781.45
9.9	2.09	80.61	777.63
9.91	2.06	80.87	766.42
9.92	2.03	81.03	763.05
9.93	2.02	80.71	761.96
9.94	2.03	79.72	758.68
9.95	2.05	76.46	756.95
9.96	2.05	76.11	754.4
9.97	2.05	76.3	756.31
9.98	2.08	75.22	765.87
9.99	2.11	74.87	771.34
10	2.15	76.14	777.35
10.01	2.18	76.81	782

10.02	2.23	77.48	780.63
10.03	2.23	77.8	779.17
10.04	2.23	78.41	778.99
10.05	2.25	79.21	783
10.06	2.25	79.21	783
10.07	2.3	80.07	789.56
10.08	2.32	81.09	794.66
10.09	2.32	83.29	801.59
10.1	2.32	83.29	801.59
10.11	2.32	83.29	801.59
10.12	3.13	146.32	221.1
10.13	2.81	141.59	280.68
10.14	2.68	136.65	304.82
10.15	2.53	130.65	328.78
10.16	2.33	122.77	343.9
10.17	2.22	118.27	345.81
10.18	2.1	115.3	358.29
10.19	2.03	113.51	382.98
10.2	1.94	110.64	437.64
10.21	1.91	108.85	474.81
10.22	1.9	106.81	506.97
10.23	1.96	97.14	558.44
10.24	2.01	91.97	582.95
10.25	2.07	87.69	597.34
10.26	2.16	85.05	611.82
10.27	2.28	79.17	641.52
10.28	2.35	77.29	646.44
10.29	2.44	74.96	662.84
10.3	2.47	74.93	678.15
10.31	2.51	75.44	696.91
10.32	2.56	78.03	748.47
10.33	2.67	81.95	791.56
10.34	2.75	81.63	804.5
10.35	2.83	82.88	810.15
10.36	2.94	87.63	820.9
10.37	2.96	93.18	821.72
10.38	2.98	97.27	816.53
10.39	2.98	100.71	812.52
10.4	2.95	109.49	772.71
10.41	2.95	112.14	774.53
10.42	2.93	116.77	771.8
10.43	2.96	123.18	767.42
10.44	2.96	123.18	767.42
10.45	3.17	131.13	836.39
10.46	3.38	135.88	897.06
10.47	3.88	144.24	889.22
10.48	4.05	145.84	530.2

10.49	4.14	145.81	292.98
10.5	4	145.23	197.32
10.51	3.71	146.48	176.92
10.52	3.42	152.57	173.36
10.53	3.16	158.12	172.91
10.54	2.78	162.08	207.07
10.55	2.67	159.02	239.59
10.56	2.42	150.75	410.4
10.57	2.42	150.75	410.4
10.58	2.39	142.87	403.39
10.59	2.37	136.84	397.65
10.6	2.34	131.7	407.03
10.61	2.33	131.73	420.42
10.62	2.32	132.47	434.45
10.63	2.29	133.74	444.11
10.64	2.27	132.53	468.34
10.65	2.28	124.43	465.7
10.66	2.28	124.43	465.7
10.67	2.33	108.69	487.75
10.68	2.33	108.21	498.77
10.69	2.32	108.41	507.52
10.7	2.29	103.78	510.43
10.71	2.3	99.66	511.89
10.72	2.28	98.99	518.54
10.73	2.28	97.81	514.53
10.74	2.25	97.72	506.24
10.75	2.23	97.68	506.33
10.76	2.2	97.62	505.33
10.77	2.16	99.63	511.8
10.78	2.14	99.02	511.62
10.79	2.14	99.02	511.62
10.8	2.18	96.53	527.92
10.81	2.23	96.95	539.31
10.82	2.32	96.25	558.26
10.83	2.4	93.63	573.02
10.84	2.52	91.75	490.66
10.85	2.52	91.75	490.66
10.86	2.59	93.25	435.55
10.87	2.58	91.78	439.46
10.88	2.57	92.03	421.97
10.89	2.5	92.51	425.62
10.9	2.41	91.43	440.56
10.91	2.23	85.01	492.48
10.92	2.15	83.93	542.04
10.93	2.21	83.83	603.44
10.94	2.24	86.13	619.66
10.95	2.25	89.71	635.88

10.96	2.27	94.27	671.59
10.97	2.27	98.77	680.6
10.98	2.27	97.4	675.59
10.99	2.27	96.85	669.13
11	2.28	93.06	674.32
11.01	2.31	89.1	684.25
11.02	2.35	87.54	694.36
11.03	2.41	87.12	683.98
11.04	2.35	85.56	655.19
11.05	2.32	86.74	650.82
11.06	2.31	86.99	633.96
11.07	2.2	87.54	603.08
11.08	2.1	84.47	591.69
11.09	1.99	82.01	595.88
11.1	1.99	82.01	595.88
11.11	1.99	82.01	595.88
11.12	2.58	137.8	286.6
11.13	2.37	139.33	398.47
11.14	2.37	139.33	398.47
11.15	2.23	126.28	427.62
11.16	2.16	119.64	429.17
11.17	2.07	108.21	490.84
11.18	2.1	104.07	543.14
11.19	2.16	95.42	591.15
11.2	2.16	89.83	601.53
11.21	2.18	87.89	596.88
11.22	2.16	85.4	577.12
11.23	2.17	77.61	554.71
11.24	2.17	76.46	548.42
11.25	2.2	77.51	549.24
11.26	2.07	77.77	550.15
11.27	2.06	74.8	542.68
11.28	2.06	74.04	536.49
11.29	2.03	74.23	538.4
11.3	2.04	76.01	518.36
11.31	2.01	77.39	531.66
11.32	2	81.31	545.41
11.33	1.98	83.77	547.42
11.34	1.98	83.77	547.42
11.35	2.02	74.64	573.84
11.36	2.02	74.64	573.84
11.37	2.57	76.17	697.82
11.38	2.79	78.63	737.72
11.39	3.04	78.44	770.98
11.4	3.31	77.1	791.11
11.41	3.89	71.83	422.98
11.42	4.25	76.33	395.01

11.43	4.51	84.95	322.95
11.44	4.98	98.74	152.14
11.45	5.14	107.26	110.23
11.46	5.24	114.15	93.74
11.47	5.3	120.72	88.91
11.48	5.38	133.9	84.36
11.49	5.47	133.81	81.08
11.5	5.72	128.32	75.61
11.51	5.82	126.72	71.6
11.52	5.89	125.57	62.49
11.53	5.88	124.94	51.38
11.54	5.78	118.23	40.17
11.55	5.58	114.18	32.61
11.56	5.23	107.48	24.32
11.57	4.37	94.05	8.93
11.58	3.97	88.91	5.65
11.59	3.66	82.37	8.75
11.6	3.39	78.79	21.86
11.61	2.91	82.62	53.02
11.62	2.68	91.08	57.3
11.63	2.17	127.46	63.5
11.64	2	140.22	75.7
11.65	1.91	148.07	89.82
11.66	1.92	147.24	102.03
11.67	2.03	144.34	141.11
11.68	2.11	144.18	156.69
11.69	2.22	143.32	174.82
11.7	2.81	138.69	262.46
11.71	3.32	136.2	343.54
11.72	3.84	133.81	329.87
11.73	4.22	130.81	288.06
11.74	4.39	122.61	174.46
11.75	4.1	122	134.92
11.76	3.56	105.92	99.66
11.77	3.34	99.76	106.04
11.78	3.1	99.92	107.86
11.79	2.87	100.52	100.85
11.8	2.55	103.56	99.21
11.81	2.55	103.56	99.21
11.82	2.3	124.3	133.92
11.83	2.48	122.86	337.98
11.84	2.61	120.85	448.3
11.85	2.71	119.51	431.45
11.86	2.75	116	434.36
11.87	2.82	112.62	276.85
11.88	2.87	115.36	280.77
11.89	3	120.92	255.81

11.9	2.98	125.64	236.95
11.91	2.87	127.3	223.29
11.92	2.7	125.64	205.43
11.93	2.33	117.72	178.74
11.94	2.13	113.29	170.63
11.95	1.96	105.95	164.89
11.96	1.71	93.22	161.43
11.97	1.71	93.22	161.43
11.98	1.59	89.16	189.76
11.99	1.75	93.53	253.26
12	1.96	96.25	282.77
12.01	2.21	94.49	307.01
12.02	2.8	92.58	324.95
12.03	3.12	96.66	330.14
12.04	3.41	99.57	330.05
12.05	3.91	104.45	236.77
12.06	4.15	108.82	223.19
12.07	4.38	110.35	200.87
12.08	4.57	110.07	158.7
12.09	4.78	110.64	125.26
12.1	4.78	110.64	125.26
12.11	4.78	110.64	125.26
12.12	4.89	99.98	102.85
12.13	4.89	99.98	102.85
12.14	4.87	86.42	82.35
12.15	4.86	80.39	83.27
12.16	4.78	74.04	83.17
12.17	4.68	65.52	83.36
12.18	4.52	44.74	84.54
12.19	4.46	39.67	84.72
12.2	4.37	31.88	87
12.21	4.34	29.04	89.1
12.22	4.3	27.13	90.83
12.23	4.27	26.1	91.92
12.24	4.19	26.26	92.74
12.25	4.14	27.16	92.74
12.26	4.14	27.16	92.74
12.27	3.93	30.51	90.92
12.28	3.84	30.95	90.55
12.29	3.75	30.8	89.82
12.3	3.62	29.23	89.1
12.31	3.56	28.85	89
12.32	3.56	28.85	89
12.33	3.43	29.71	86.64
12.34	3.37	30.48	85.54
12.35	3.3	31.62	84.18
12.36	3.23	33.16	83.08

12.37	3.1	36.83	82.26
12.38	3.07	39.54	82.81
12.39	3.02	45.44	84.63
12.4	3.03	49.27	86
12.41	3.04	52.88	87.55
12.42	3.08	56.64	89.28
12.43	3.18	62.9	92.47
12.44	3.24	65.01	93.74
12.45	3.31	66.35	95.11
12.46	3.47	67.27	96.75
12.47	3.54	67.94	97.11
12.48	3.61	68.42	96.84
12.49	3.73	66.15	94.29
12.5	3.78	60.82	92.37
12.51	3.78	60.82	92.37
12.52	3.98	44.1	91.46
12.53	4.06	41.29	94.93
12.54	4.22	36.48	101.21
12.55	4.22	36.48	101.21
12.56	4.38	33.44	105.31
12.57	4.48	32.07	107.86
12.58	4.7	31.98	112.42
12.59	4.82	33.51	114.79
12.6	5.08	36.7	119.34
12.61	5.25	40.4	122.53
12.62	5.48	44.17	126.08
12.63	5.77	47.33	126.17
12.64	6.43	54.12	-22.68
12.65	6.74	57.92	-11.21
12.66	7.33	65.1	8.02
12.67	7.33	65.1	8.02
12.68	7.74	70.27	15.49
12.69	7.83	71.61	15.76
12.7	7.83	67.43	13.57
12.71	7.73	63.47	12.39
12.72	7.46	53.01	11.39
12.73	7.28	48.12	10.39
12.74	7.08	42.51	11.93
12.75	6.89	36.51	14.58
12.76	6.46	29.77	22.32
12.77	6.26	29.07	25.96
12.78	5.91	28.85	31.16
12.79	5.78	29.23	33.52
12.8	5.68	29.49	35.98
12.81	5.61	30.09	38.72
12.82	5.55	31.05	44.91
12.83	5.57	31.27	48.56

12.84	5.63	31.88	52.29
12.85	5.84	33.48	61.77
12.86	5.84	33.48	61.77
12.87	6.36	36.06	74.79
12.88	6.7	37.75	80.62
12.89	7.59	40.88	96.75
12.9	8.13	43.72	105.49
12.91	9.13	49.34	113.87
12.92	9.5	51.51	111.87
12.93	9.77	54.28	108.59
12.94	9.97	55.91	106.04
12.95	10.29	56.84	99.3
12.96	10.32	56.96	94.74
12.97	10.01	47.45	87.46
12.98	9.75	40.08	83.27
12.99	9.51	34.66	80.62
13	9.36	35.81	79.71
13.01	9.23	41.04	84.08
13.02	9.27	44.01	87.36
13.03	9.51	48.7	96.84
13.04	9.75	50.07	103.4
13.05	10.07	51.22	111.05
13.06	10.48	52.43	119.25
13.07	11.42	55.75	133.73
13.08	11.9	56.87	138.11
13.09	12.76	61.56	141.48
13.1	12.76	61.56	141.48
13.11	12.76	61.56	141.48
13.12	14.17	50.84	87.82
13.13	14.54	50.61	78.16
13.14	14.86	50.93	82.08
13.15	15.33	51.83	98.39
13.16	15.52	52.02	104.22
13.17	15.83	54.51	112.05
13.18	15.92	56.48	113.15
13.19	15.99	59.07	114.06
13.2	16.09	62.13	115.7
13.21	16.26	68	120.07
13.22	16.41	70.49	122.98
13.23	16.78	74.61	130.36
13.24	17.02	76.65	133.55
13.25	17.25	79.4	136.28
13.26	17.51	82.21	138.2
13.27	17.96	87.41	126.26
13.28	18.31	90.31	123.26
13.29	18.39	91.49	120.43
13.3	18.44	92.26	117.79

13.31	18.47	92.96	118.16
13.32	18.5	94.78	115.88
13.33	18.51	95.77	115.51
13.34	18.5	97.01	115.51
13.35	18.49	99.09	116.33
13.36	18.58	99.89	115.33
13.37	18.65	100.33	114.33
13.38	18.8	101.48	112.42
13.39	18.82	102.53	111.87
13.4	18.89	104.38	113.15
13.41	18.87	105.09	112.05
13.42	18.84	105.85	110.5
13.43	18.77	108.47	112.05
13.44	18.73	109.87	112.33
13.45	18.72	111.69	114.42
13.46	18.77	115.81	125.26
13.47	18.86	117.95	132.82
13.48	18.94	120.09	137.83
13.49	19.14	124.07	145.76
13.5	19.22	127.17	149.04
13.51	19.36	130.78	152.77
13.52	19.61	137.64	160.06
13.53	19.71	140.76	162.61
13.54	19.99	148.26	169.08
13.55	20.09	152.54	172.09
13.56	20.14	156.05	172.82
13.57	20.11	164.35	174.82
13.58	20.08	169.1	178.28
13.59	20.1	175.13	185.84
13.6	20.19	177.24	190.67
13.61	20.28	179.06	194.5
13.62	20.37	180.75	197.23
13.63	20.46	184.39	202.51
13.64	20.46	184.39	202.51
13.65	20.28	192.46	208.44
13.66	20.13	195.56	210.08
13.67	19.84	202.1	213.9
13.68	19.84	202.1	213.9
13.69	19.65	207.62	219.82
13.7	19.51	210.81	222.1
13.71	19.25	216.43	225.93
13.72	19.12	218.79	227.11
13.73	18.7	224.18	178.65
13.74	18.7	224.18	178.65
13.75	18.16	231.36	160.97
13.76	17.89	235.35	155.05
13.77	17.35	241.13	149.86

13.78	17.16	242.79	149.4
13.79	16.9	243.27	145.49
13.8	16.9	243.27	145.49
13.81	16.95	239.12	144.94
13.82	17.07	236.25	144.76
13.83	17.46	232.32	143.39
13.84	17.7	230.31	142.12
13.85	17.92	228.75	139.2
13.86	18.21	224.44	132.37
13.87	18.24	221.6	130.73
13.88	18.19	218.92	129.09
13.89	17.75	213.11	124.81
13.9	17.38	210.21	121.98
13.91	17.02	208.16	122.26
13.92	16.33	203.5	120.52
13.93	16.03	201.84	120.16
13.94	15.77	200.38	119.07
13.95	15.54	198.65	118.07
13.96	15.14	196.36	120.16
13.97	14.97	194.5	120.25
13.98	14.65	189.59	118.7
13.99	14.65	189.59	118.7
14	14.35	182.57	117.52
14.01	14.19	179.22	118.25
14.02	14.03	173.47	118.61
14.03	13.98	171.08	117.97
14.04	13.96	168.21	120.52
14.05	13.97	161.89	121.34
14.06	13.95	159.11	122.89
14.07	13.9	156.75	121.34
14.08	13.8	152.19	120.43
14.09	13.8	152.19	120.43
14.1	13.8	152.19	120.43
14.11	7.15	98.13	280.86
14.12	13.4	126.09	98.75
14.13	13.45	128.54	97.2
14.14	13.52	131.86	95.84
14.15	13.56	132.98	95.56
14.16	13.6	134.38	95.84
14.17	13.65	136.01	96.29
14.18	13.78	139.07	97.2
14.19	13.87	140.35	97.02
14.2	13.97	142.55	96.75
14.21	14.02	144.31	97.48
14.22	14.05	145.81	98.02
14.23	14.07	146.76	98.93
14.24	14.27	145.97	101.03

14.25	14.4	145.84	100.21
14.26	14.62	146.38	103.31
14.27	15.26	145.17	110.05
14.28	15.26	145.17	110.05
14.29	16.1	144.21	107.68
14.3	16.91	144.56	117.61
14.31	17.22	144.69	118.98
14.32	17.44	144.75	117.06
14.33	17.49	146	111.41
14.34	17.34	147.63	107.32
14.35	17.04	150.08	103.76
14.36	16.25	154.77	97.02
14.37	15.84	156.37	94.93
14.38	15.41	156.94	94.01
14.39	14.68	158.83	92.65
14.4	14.31	160.93	92.83
14.41	14.01	163.04	92.83
14.42	13.71	164.32	92.1
14.43	13.12	167.63	93.1
14.44	12.87	169.61	93.29
14.45	12.41	173.12	94.56
14.46	12.21	174.05	95.02
14.47	12.21	174.05	95.02
14.48	11.88	174.21	96.11
14.49	11.65	170.22	98.02
14.5	11.56	167.76	98.66
14.51	11.52	165.46	99.85
14.52	11.48	163.42	101.21
14.53	11.47	159.11	103.03
14.54	11.49	156.27	104.31
14.55	11.52	153.18	105.4
14.56	11.66	148.01	108.5
14.57	11.75	145.26	109.77
14.58	11.85	143.35	109.77
14.59	12.02	140.86	111.51
14.6	12.09	139.78	111.87
14.61	12.17	138.66	112.23
14.62	12.22	137.35	112.78
14.63	12.42	134.92	114.88
14.64	12.53	133.68	115.88
14.65	12.77	131.73	117.34
14.66	12.77	131.73	117.34
14.67	13.04	130.36	118.88
14.68	13.14	129.6	119.52
14.69	13.37	126.98	119.8
14.7	13.48	125.64	121.16
14.71	13.74	122.99	122.62

14.72	13.87	121.9	123.26
14.73	14.03	120.76	123.71
14.74	14.18	119.64	123.8
14.75	14.71	117.09	124.99
14.76	15.04	115.49	126.45
14.77	15.78	113.77	123.53
14.78	16.15	112.78	124.62
14.79	16.5	112.04	125.99
14.8	17.13	111.6	127.99
14.81	17.42	111.76	126.72
14.82	17.7	111.56	125.72
14.83	18.18	112.75	126.72
14.84	18.36	113.93	124.53
14.85	18.52	117.56	127.08
14.86	18.66	119.54	124.08
14.87	18.64	121.65	123.17
14.88	18.58	124.49	122.26
14.89	18.36	130.11	121.8
14.9	18.19	133.39	121.8
14.91	18.03	136.65	120.8
14.92	17.79	142.71	123.17
14.93	17.68	144.95	122.53
14.94	17.61	148.74	123.53
14.95	17.57	150.15	123.17
14.96	17.59	151.61	123.08
14.97	17.59	151.61	123.08
14.98	17.66	152.44	123.35
14.99	17.68	152.64	123.26
15	17.79	152.7	126.63
15.01	17.86	153.11	129.27
15.02	17.96	153.78	126.99
15.03	18	154.77	126.17
15.04	18.03	156.02	125.72
15.05	18.11	158.73	126.45
15.06	18.15	160.26	127.08
15.07	18.18	163.2	127.81
15.08	18.2	163.9	127.45
15.09	18.2	163.9	127.45
15.1	18.2	165.91	127.72
15.11	18.2	165.91	127.72
15.12	18.2	165.91	127.72
15.13	17.95	150.43	105.31
15.14	17.9	153.43	103.67
15.15	17.8	158.28	102.58
15.16	17.73	160.65	101.76
15.17	17.63	162.4	101.48
15.18	17.36	165.69	99.39

15.19	17.18	166.8	97.57
15.2	16.93	167.89	95.38
15.21	16.24	169.87	90.55
15.22	15.81	170.57	88.37
15.23	15.39	171.05	87.09
15.24	14.64	171.3	87.55
15.25	14.33	170.99	88.28
15.26	13.83	170.22	90.1
15.27	13.62	169.29	90.28
15.28	13.41	167.95	90.83
15.29	13.1	164.35	92.92
15.3	12.96	162.11	93.19
15.31	12.83	159.88	94.29
15.32	12.64	154.49	95.02
15.33	12.58	151.58	96.84
15.34	12.56	144.56	100.76
15.35	12.62	141.28	102.85
15.36	12.7	137.86	103.94
15.37	12.79	134.35	105.58
15.38	13.03	128.06	107.95
15.39	13.15	125.29	108.5
15.4	13.35	120.72	109.32
15.41	13.44	118.75	109.68
15.42	13.54	117.56	110.41
15.43	13.85	114.56	114.06
15.44	13.85	114.56	114.06
15.45	14.39	112.71	117.43
15.46	15.14	111.28	121.89
15.47	15.57	110.58	116.15
15.48	15.98	110.19	120.52
15.49	16.84	109.2	128.63
15.5	16.84	109.2	128.63
15.51	18.02	109.91	132.28
15.52	18.31	110.93	131.82
15.53	18.68	113.89	131
15.54	18.81	115.43	130.82
15.55	18.87	117.72	131.55
15.56	19.03	123.05	132.91
15.57	18.04	106.75	109.59
15.58	18.86	112.62	112.6
15.59	18.97	122.22	112.42
15.6	19.09	126.12	113.69
15.61	19.31	134.86	111.32
15.62	19.46	144.31	112.96
15.63	19.55	149.54	114.97
15.64	19.74	159.31	112.05
15.65	19.87	163.84	113.87

15.66	19.87	163.84	113.87
15.67	20.18	174.66	113.87
15.68	20.22	177.94	113.24
15.69	20.25	183.18	114.88
15.7	20.23	189.27	114.15
15.71	20.18	192.3	112.69
15.72	20.11	195.78	113.33
15.73	19.96	202.13	114.42
15.74	19.9	205.64	113.97
15.75	19.66	212.34	113.15
15.76	19.49	217.51	113.24
15.77	19.42	219.49	114.79
15.78	19.39	221.6	116.61
15.79	19.26	227.6	115.97
15.8	19.26	227.63	115.61
15.81	19.23	229.83	114.6
15.82	19.24	231.08	115.61
15.83	19.28	232.38	115.06
15.84	19.37	233.31	118.07
15.85	19.44	232.99	115.61
15.86	19.49	231.75	114.97
15.87	19.47	230.05	117.06
15.88	19.47	230.05	117.06
15.89	19.21	227.95	114.88
15.9	18.89	225.75	117.7
15.91	18.72	224.76	113.24
15.92	18.36	222.33	114.42
15.93	18.03	220.16	114.51
15.94	17.87	219.3	116.33
15.95	17.69	218.69	117.25
15.96	17.36	217.29	115.88
15.97	17.19	216.62	116.61
15.98	16.86	213.56	115.33
15.99	16.7	212.28	115.06
16	16.46	209.89	114.79
16.01	16.36	208.55	115.15
16.02	16.06	206.38	115.33
16.03	15.88	204.81	116.88
16.04	15.71	202.87	116.88
16.05	15.33	197.19	116.7
16.06	15.16	193.96	115.33
16.07	14.78	188.66	113.97
16.08	14.58	186.62	116.06
16.09	14.2	182.44	116.43
16.1	14	179.92	115.97
16.11	14	179.92	115.97
16.12	14	179.92	115.97

16.13	12.92	147.12	110.5
16.14	12.55	147.31	107.22
16.15	12.4	147.31	107.22
16.16	12.15	146.83	107.59
16.17	11.99	146	108.32
16.18	11.99	146	108.32
16.19	11.86	144.59	109.41
16.2	11.77	142.2	110.05
16.21	11.72	140.73	109.96
16.22	11.64	138.02	110.41
16.23	11.62	136.74	111.96
16.24	11.65	133.97	114.69
16.25	11.7	132.63	115.79
16.26	11.86	130.81	118.79
16.27	11.98	129.95	119.25
16.28	12.31	128.32	121.53
16.29	12.31	128.32	121.53
16.3	12.69	126.95	124.17
16.31	13.1	126.12	126.08
16.32	13.3	125.57	126.99
16.33	13.71	124.84	127.45
16.34	13.9	124.78	128.72
16.35	14.11	125.06	129.09
16.36	14.57	125.57	130.18
16.37	14.82	125.93	132.64
16.38	15.35	127.62	130.55
16.39	15.88	129.24	131.46
16.4	16.1	130.43	131.82
16.41	16.35	131.61	132.09
16.42	16.85	134.83	133.55
16.43	17.08	136.78	134.65
16.44	17.57	140.96	134.46
16.45	17.77	143.25	135.01
16.46	17.97	145.84	135.74
16.47	18.38	150.5	134.74
16.48	18.55	152.89	135.74
16.49	18.81	157.93	135.74
16.5	18.94	160.36	135.37
16.51	19.01	166.42	134.65
16.52	18.98	169.01	133.92
16.53	18.84	175.87	131.64
16.54	18.84	175.87	131.64
16.55	18.36	184.8	130.27
16.56	18.15	187.93	129.82
16.57	17.67	193.55	127.45
16.58	17.38	196	126.26
16.59	16.99	198.56	124.81

16.6	16.15	204.65	120.71
16.61	15.73	206.79	120.07
16.62	14.89	209.82	119.43
16.63	14.55	211.35	120.07
16.64	14.22	211.58	119.61
16.65	13.63	211	120.71
16.66	13.37	210.01	121.62
16.67	12.94	206.98	120.8
16.68	12.75	204.68	121.07
16.69	12.57	202.36	120.71
16.7	12.25	196.04	120.89
16.71	12.11	192.69	121.8
16.72	11.85	185.51	121.98
16.73	11.77	181.1	121.98
16.74	11.62	171.85	122.62
16.75	11.58	167.54	123.26
16.76	11.55	163.65	123.53
16.77	11.53	156.53	124.26
16.78	11.53	153.5	124.81
16.79	11.53	148.01	124.62
16.8	11.52	145.68	124.35
16.81	11.5	143.16	125.17
16.82	11.49	139.14	125.63
16.83	11.51	137.06	126.26
16.84	11.58	132.79	126.26
16.85	11.61	131.22	126.63
16.86	11.7	128.22	127.54
16.87	11.7	128.22	127.54
16.88	11.8	126.09	127.9
16.89	11.94	124.87	129.18
16.9	12.03	124.65	130.45
16.91	12.27	124.07	132.09
16.92	12.42	123.88	134.01
16.93	12.58	123.44	134.92
16.94	12.98	122.7	138.02
16.95	13.19	122.48	138.93
16.96	13.61	122.51	140.66
16.97	13.76	122.57	140.29
16.98	13.9	124.14	137.29
16.99	13.87	125.32	134.65
17	13.8	126.53	133.1
17.01	13.68	129.31	132.64
17.02	13.62	130.78	132.64
17.03	13.56	133.3	133.55
17.04	13.55	134.38	134.01
17.05	13.56	135.34	135.74
17.06	13.65	137.32	137.01

17.07	13.65	137.32	137.01
17.08	13.83	139.58	139.56
17.09	13.87	140.03	139.93
17.1	13.87	140.03	139.93
17.11	13.87	140.03	139.93
17.12	14.14	122.8	124.17
17.13	14.21	124.43	124.17
17.14	14.26	125.96	124.53
17.15	14.32	128.51	124.26
17.16	14.33	129.88	123.8
17.17	14.35	132.53	123.8
17.18	14.36	134.06	123.71
17.19	14.32	136.52	123.62
17.2	14.3	137.83	124.44
17.21	14.29	138.95	124.17
17.22	14.28	140.8	124.53
17.23	14.28	141.31	123.99
17.24	14.35	142.23	125.35
17.25	14.4	143.06	125.63
17.26	14.45	144.02	125.17
17.27	14.48	145.46	125.9
17.28	14.48	145.46	125.9
17.29	14.54	145.97	125.44
17.3	14.54	146.16	125.72
17.31	14.5	147.08	125.35
17.32	14.46	147.34	125.99
17.33	14.48	147.85	127.08
17.34	14.53	148.3	127.9
17.35	14.56	148.42	125.99
17.36	14.61	148.2	126.72
17.37	14.6	148.17	126.81
17.38	14.59	148.74	126.63
17.39	14.49	148.97	126.63
17.4	14.34	149.54	126.26
17.41	14.25	149.89	126.63
17.42	14.13	150.31	126.45
17.43	14.13	150.31	126.45
17.44	14.04	150.08	128.18
17.45	14.01	149.64	127.45
17.46	14	149.22	128.27
17.47	14.04	148.74	128.63
17.48	14.03	148.42	129.63
17.49	14.07	148.3	128.72
17.5	14.14	147.5	129.36
17.51	14.14	147.5	129.36
17.52	14.29	145.68	130.91
17.53	14.35	145.3	131.27

17.54	14.42	144.15	131.37
17.55	14.42	143.41	131.46
17.56	14.42	142.84	131
17.57	14.35	142.23	131.64
17.58	14.31	141.95	133.1
17.59	14.31	141.24	135.92
17.6	14.34	141.05	135.83
17.61	14.32	141.24	135.37
17.62	14.12	141.43	132.09
17.63	13.95	141.63	130.27
17.64	13.6	141.56	130.64
17.65	13.47	141.5	132.64
17.66	13.39	141.82	134.65
17.67	13.42	141.98	138.38
17.68	13.59	141.85	143.3
17.69	13.72	141.59	145.03
17.7	13.95	141.24	146.31
17.71	14.07	141.08	147.58
17.72	14.16	141.28	148.58
17.73	14.3	141.5	149.86
17.74	14.38	141.47	149.95
17.75	14.44	141.02	147.95
17.76	14.4	141.05	147.4
17.77	14.26	141.12	146.67
17.78	14.19	141.15	146.85
17.79	14.17	141.15	147.67
17.8	14.15	141.63	151.23
17.81	14.22	141.53	154.69
17.82	14.57	140.32	162.34
17.83	14.81	140.13	165.16
17.84	15.05	140.25	166.17
17.85	15.56	140.7	169.9
17.86	15.82	141.24	171.18
17.87	16.29	141.82	169.81
17.88	16.52	141.75	172.27
17.89	16.91	139.17	175.37
17.9	17.09	137.22	175.91
17.91	17.2	135.37	177.01
17.92	17.4	132.85	181.38
17.93	17.52	132.28	182.65
17.94	17.8	131.96	186.3
17.95	17.95	132.31	188.03
17.96	18.12	132.66	190.31
17.97	18.43	132.88	194.41
17.98	18.58	132.5	194.77
17.99	18.77	131.54	197.5
18	18.86	132.15	198.96

18.01	18.97	133.97	200.78
18.02	19.17	139.81	204.7
18.03	19.29	144.05	207.52
18.04	19.6	151.07	212.9
18.05	19.78	153.4	216.36
18.06	20.22	156.5	221.74
18.07	20.22	156.5	221.74
18.08	20.5	157.33	220.28
18.09	20.53	159.43	217.73
18.1	20.53	159.43	217.73
18.11	20.53	159.43	217.73
18.12	19.73	140.89	147.31
18.13	19.45	145.07	147.31
18.14	18.67	153.15	136.01
18.15	18.67	153.15	136.01
18.16	16.93	163.77	121.25
18.17	16.26	166.71	118.88
18.18	15.04	172.17	117.06
18.19	14.52	174.24	117.43
18.2	14.07	175.42	116.79
18.21	13.35	177.62	118.43
18.22	13.05	178.2	119.43
18.23	12.56	176.83	119.34
18.24	12.35	175.64	119.7
18.25	12.15	174.72	120.8
18.26	11.83	170.95	121.25
18.27	11.83	170.95	121.25
18.28	11.46	161.86	124.17
18.29	11.36	158.6	123.8
18.3	11.28	155.19	123.9
18.31	11.16	147.91	125.08
18.32	11.06	140.38	125.99
18.33	11.03	137.32	126.9
18.34	11.03	131.77	128.45
18.35	11.04	129.28	129.63
18.36	11.08	126.91	130.45
18.37	11.14	122.61	131.55
18.38	11.19	120.66	132.28
18.39	11.27	117.02	132.37
18.4	11.29	115.23	132.09
18.41	11.33	113.06	132.09
18.42	11.33	112.2	132.37
18.43	11.34	111.56	132.19
18.44	11.37	110.54	132.91
18.45	11.39	110.19	133.37
18.46	11.48	109.81	134.19
18.47	11.54	109.55	135.37

18.48	11.54	109.55	135.37
18.49	11.72	109.62	136.28
18.5	11.72	109.62	136.28
18.51	11.88	110.1	137.2
18.52	11.94	110.42	138.29
18.53	12.12	110.89	138.74
18.54	12.2	111.15	139.2
18.55	12.28	111.41	139.56
18.56	12.46	111.82	141.2
18.57	12.57	112.14	141.39
18.58	12.75	112.81	141.39
18.59	12.8	113.19	141.11
18.6	12.87	113.7	141.39
18.61	13.03	114.95	143.12
18.62	13.12	115.55	142.94
18.63	13.17	116.06	141.66
18.64	13.18	117.37	140.38
18.65	13.17	117.98	140.29
18.66	13.17	118.97	140.75
18.67	13.2	121.17	141.66
18.68	13.22	122.38	142.02
18.69	13.28	124.36	142.57
18.7	13.35	125.41	143.76
18.71	13.35	125.41	143.76
18.72	13.46	126.37	146.21
18.73	13.56	126.63	148.04
18.74	13.86	127.07	152.23
18.75	14.05	127.3	154.69
18.76	14.4	128.38	155.14
18.77	14.54	128.77	156.24
18.78	14.7	128.89	157.6
18.79	15.05	128.93	160.79
18.8	15.22	129.15	162.7
18.81	15.63	130.58	165.71
18.82	15.85	131.13	168.26
18.83	16.09	131.92	170.36
18.84	16.5	133.71	171.54
18.85	16.64	134.77	170.45
18.86	16.76	137.19	168.63
18.87	16.74	138.59	167.53
18.88	16.6	142.3	165.98
18.89	16.6	142.3	165.98
18.9	16.24	146.19	158.79
18.91	15.52	150.72	151.95
18.92	15.08	152.57	147.76
18.93	14.13	157.1	140.38
18.94	13.62	159.66	137.56

18.95	13.12	162.18	134.28
18.96	12.6	164.25	131.18
18.97	11.58	168.11	125.99
18.98	11.09	169.33	123.53
18.99	10.16	170.6	110.96
19	9.72	170.7	107.77
19.01	9.32	170.32	107.86
19.02	8.7	168.21	109.32
19.03	8.48	166.77	111.41
19.04	8.24	162.85	122.26
19.05	8.23	159.88	127.72
19.06	8.48	152.44	142.3
19.07	8.48	152.44	142.3
19.08	9.1	144.02	160.34
19.09	9.98	135.82	169.81
19.1	9.98	135.82	169.81
19.11	9.98	135.82	169.81
19.12	11.02	105.05	161.79
19.13	11.35	103.84	152.87
19.14	11.4	103.27	148.49
19.15	11.41	103.11	146.67
19.16	11.39	104	146.4
19.17	11.39	104	146.4
19.18	11.34	107.54	144.21
19.19	11.32	109.33	144.21
19.2	11.32	113.03	143.76
19.21	11.31	115.14	144.21
19.22	11.32	117.05	144.67
19.23	11.34	119.83	144.48
19.24	11.36	121.11	144.48
19.25	11.35	123.63	144.76
19.26	11.33	124.9	144.3
19.27	11.31	126.15	144.39
19.28	11.26	127.36	143.85
19.29	11.23	127.46	143.66
19.3	11.14	127.33	143.57
19.31	11.09	127.27	141.93
19.32	11.03	127.23	142.94
19.33	10.93	126.02	142.21
19.34	10.88	125.32	142.02
19.35	10.8	123.79	143.12
19.36	10.76	123.85	142.75
19.37	10.72	124.52	143.76
19.38	10.7	125.06	143.48
19.39	10.68	125.57	144.48
19.4	10.67	126.28	144.94
19.41	10.66	126.85	145.03

19.42	10.65	126.91	146.03
19.43	10.62	126.88	145.76
19.44	10.6	126.88	145.85
19.45	10.6	126.66	145.49
19.46	10.6	126.66	147.85
19.47	10.62	126.66	148.31
19.48	10.74	126.63	152.77
19.49	10.85	126.63	155.78
19.5	11.03	126.53	158.79
19.51	11.62	125.64	166.53
19.52	12.02	124.68	170.54
19.53	13.04	123.69	174.36
19.54	13.63	122.51	177.19
19.55	14.23	121.07	179.47
19.56	14.84	120.21	180.01
19.57	15.92	120.56	178.56
19.58	16.78	123.37	177.37
19.59	17.14	125.38	177.46
19.6	17.75	130.43	178.56
19.61	18.04	133.39	178.83
19.62	18.31	136.55	178.28
19.63	18.79	143.67	178.01
19.64	18.95	147.5	178.37
19.65	19.32	157.45	180.92
19.66	19.54	162.05	183.2
19.67	20	170.63	186.39
19.68	20.24	174.97	187.67
19.69	20.45	179.6	189.21
19.7	20.86	187.8	192.13
19.71	21.03	191.95	193.13
19.72	21.21	199.71	193.59
19.73	21.27	203.57	192.49
19.74	21.24	207.08	192.04
19.75	21.15	214.83	192.22
19.76	20.93	222.46	192.04
19.77	20.79	226.64	192.04
19.78	20.4	233.21	191.49
19.79	20.21	236.02	192.4
19.8	20.05	239.34	191.95
19.81	19.58	246.71	192.77
19.82	19.39	250.32	193.68
19.83	18.94	256.92	192.49
19.84	18.72	259.73	193.95
19.85	18.49	262.48	194.41
19.86	18.09	265.76	196.68
19.87	17.93	265.86	195.59
19.88	17.56	264.36	197.23

19.89	17.42	263.24	198.69
19.9	17.08	260.72	199.42
19.91	16.92	258.71	199.78
19.92	16.77	256.61	201.24
19.93	16.56	251.09	204.34
19.94	16.49	248.05	205.34
19.95	16.33	240.23	208.34
19.96	16.26	236.76	208.98
19.97	16.19	233.6	211.81
19.98	16.16	226.32	214.08
19.99	16.16	226.32	214.08
20	16.11	217.61	218.73
20.01	16.1	215.09	220.46
20.02	16.03	209.34	221.01
20.03	15.99	206.92	221.19
20.04	15.91	204.84	221.19
20.05	15.74	201.17	221.37
20.06	15.64	199.77	222.28
20.07	15.42	198.81	220.83
20.08	15.26	198.94	219.64
20.09	15.14	199.23	218.82

U2

Tilt	a Factor
10977	278275
31330	5001

Tilt [°]	Speed [cm/sec]
0.41	0.1
0.34	1.6
0.34	1.5
0.31	1.5
0.31	1.5
0.28	1.5
0.28	1.4
0.28	1.5
0.28	1.6
0.28	1.7
0.28	1.7
0.33	1.7
0.38	1.6
0.38	1.7

0.38	1.6
0.38	1.7
0.34	1.6
0.45	1.7
0.45	1.6
0.45	1.8
0.45	1.7
0.45	1.8
0.45	1.7
0.45	1.7
0.49	1.7
0.49	1.7
0.41	1.6
0.52	1.7
0.52	1.6
0.52	1.7
0.52	1.7
0.49	1.8
0.49	1.6
0.49	1.7
0.49	1.6
0.49	1.7
0.56	1.6
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0.71	1.6
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0.8	1.7
0.8	1.7
0.8	1.6
0.88	1.7
0.8	1.6
0.8	6.4
0.8	6.4

0.8	7.6
0.8	6.8
0.8	6.8
0.8	6.8
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FERRARA DEPARTMENT

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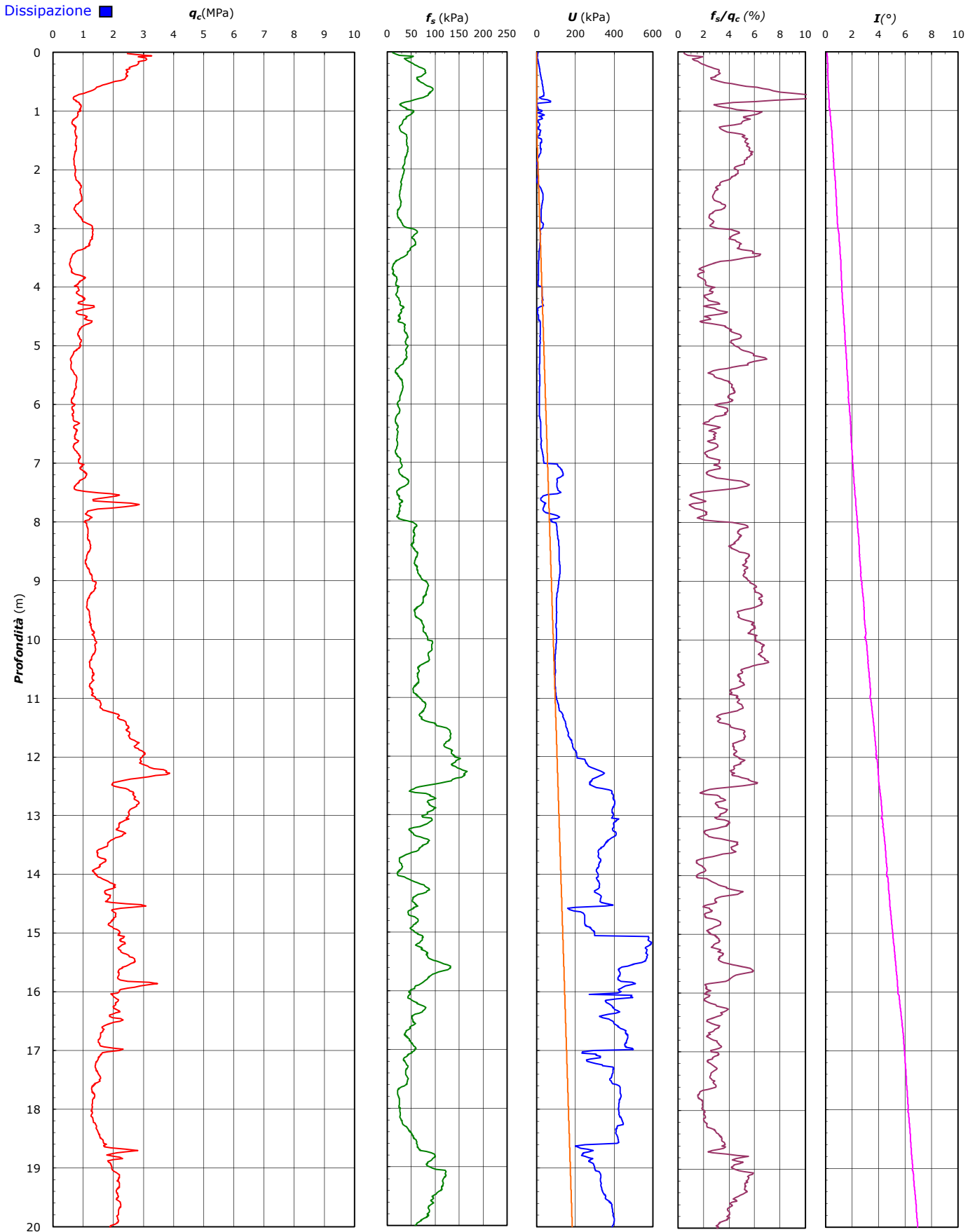
SOCOTEC ITALIA Srl – P.Iva 01872430648
 Headquarters: Via Bariola, 101-103 - 20020 Lainate (MI)
 Tel.: +39 02 9375 0000 - Fax: +39 02 9375 0099



COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Strada Provinciale N° 2 - Polo Industriale di Finale Emilia (MO)

PROVA N°: CPTU 05 PROF. FALDA (m da p.c.): 1.30 PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]
 DATA: 20-07-20 PREFORO (m da p.c.): LAT. (WGS 84): 44.822997° LONG. (WGS 84): 11.244106°
 COMMESSA: 21340FE/20 C. SITO N°: SF200640 del 20-07-20 OPERATORE: L. Formisano



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DATA: 20-07-20 PREFORO (m da p.c.): LAT. (WGS 84): 44.822997° LONG. (WGS 84): 11.244106°

COMMESSA: 21340FE/20 C. SITO N°: SF200640 del 20-07-20 OPERATORE: L. Formisano

UBICAZIONE

Località: Strada Provinciale N° 2 - Polo Industriale di Finale Emilia (MO)



NOTE: Utilizzato 1 anello allargatore da inizio prova

FERRARA DEPARTMENT

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COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Cimitero di Massa Finalese - Via Albero - Massa Finalese (MO)

PROVA N°: CPTU 06 PROF. FALDA (m da p.c.): 3.80

PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

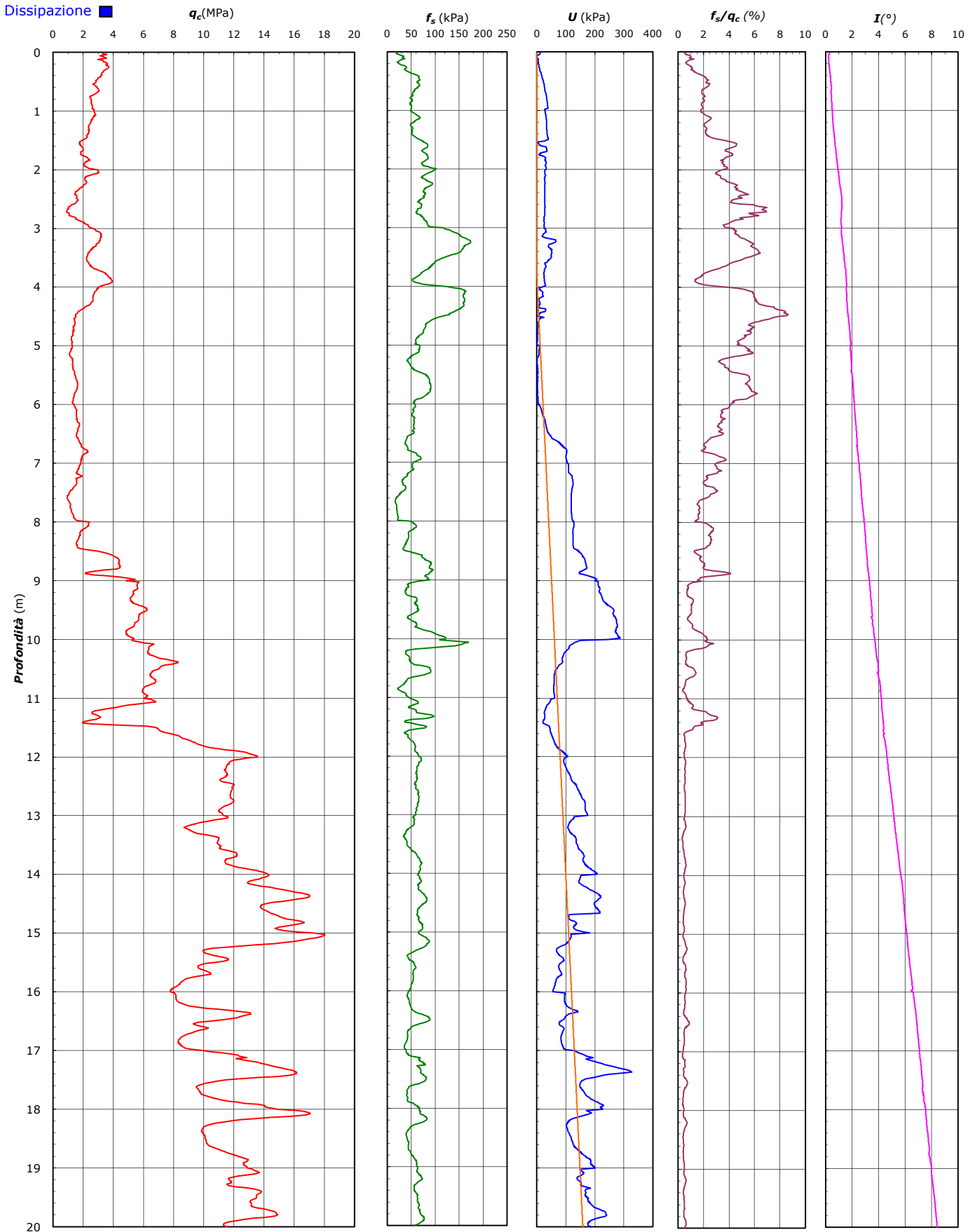
DATA: 20-07-20 PREFORO (m da p.c.):

LAT. (WGS 84): 44.854569°

LONG. (WGS 84): 11.215188°

COMMESSA: 21340FE/20

C. SITO N°: SF200641 del 20-07-20 OPERATORE: L. Formisano



FERRARA DEPARTMENT

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COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Cimitero di Massa Finalese - Via Albero - Massa Finalese (MO)

PROVA N°: CPTU 06 PROF. FALDA (m da p.c.): 3.80 PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

DATA: 20-07-20 PREFORO (m da p.c.): LAT. (WGS 84): 44.854569° LONG. (WGS 84): 11.215188°

COMMESSA: 21340FE/20 C. SITO N°: SF200641 del 20-07-20 OPERATORE: L. Formisano

UBICAZIONE

Località: Cimitero di Massa Finalese - Via Albero - Massa Finalese (MO)



NOTE: Utilizzato 1 anello allargatore da inizio prova

FERRARA DEPARTMENT

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COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Parco pubblico di Via Monchio - Finale Emilia (MO)

PROVA N°: CPTU 07 PROF. FALDA (m da p.c.): 1.90

PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

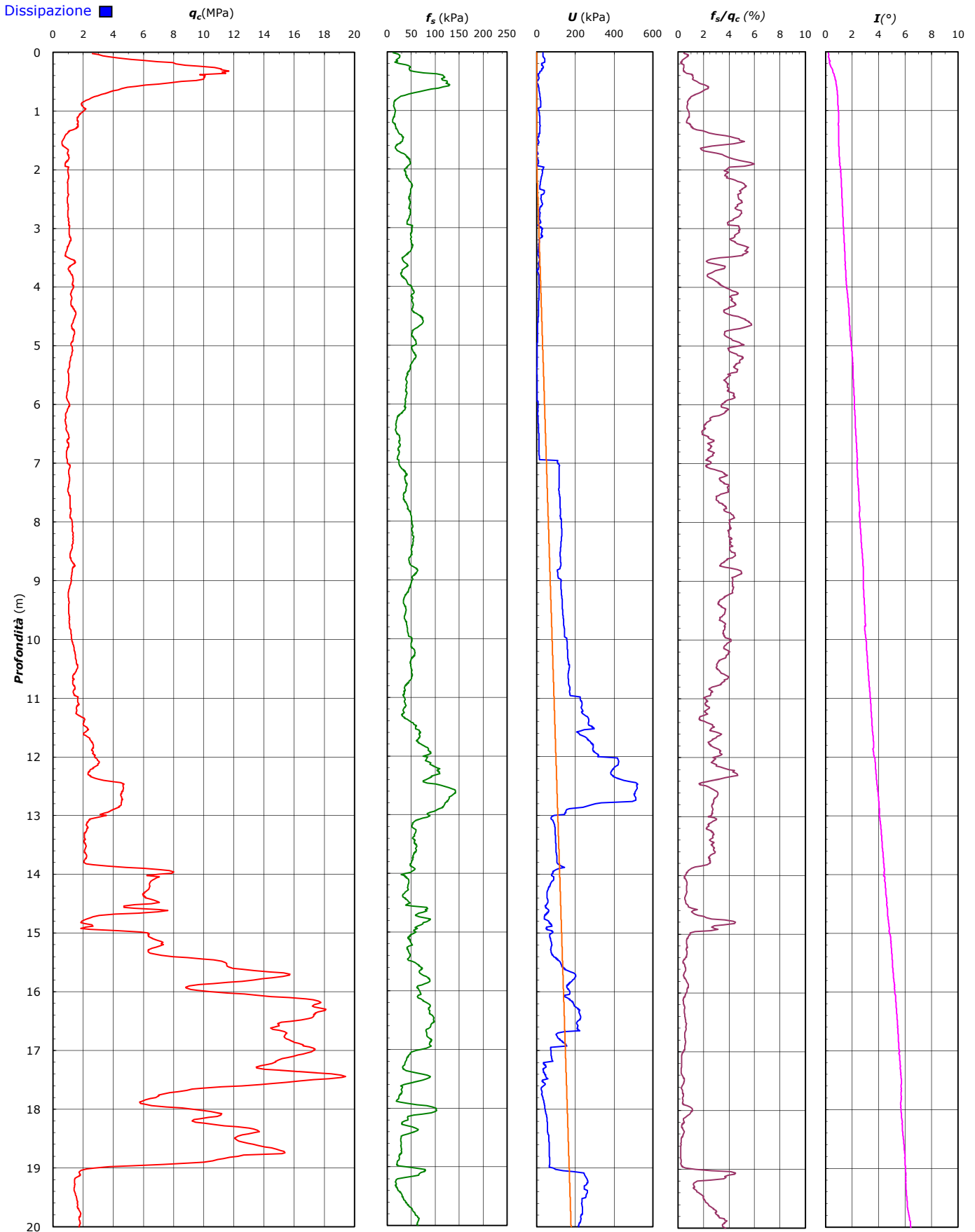
DATA: 20-07-20 PREFORO (m da p.c.):

LAT. (WGS 84): 44.838690°

LONG. (WGS 84): 11.305730°

COMMESSA: 21340FE/20

C. SITO N°: SF200642 del 20-07-20 OPERATORE: L. Formisano



FERRARA DEPARTMENT

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COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Parco pubblico di Via Monchio - Finale Emilia (MO)

PROVA N°: CPTU 07 PROF. FALDA (m da p.c.): 1.90 PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

DATA: 20-07-20 PREFORO (m da p.c.): LAT. (WGS 84): 44.838690° LONG. (WGS 84): 11.305730°

COMMESSA: 21340FE/20 C. SITO N°: SF200642 del 20-07-20 OPERATORE: L. Formisano

UBICAZIONE

Località: Parco pubblico di Via Monchio - Finale Emilia (MO)



NOTE: Utilizzato 1 anello allargatore da inizio prova



FERRARA DEPARTMENT

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SOCOTEC ITALIA Srl - P.Iva 01872430648

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SOCOTEC: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)
CANTIERE: Via Correggio - Casumaro (MO)

PROVA N°: CPTU 08 PROF. FALDA (m da p.c.): 2.40

DATA: 20-07-20

COMMESSA: 21340FE/20

PREFORO (m da p.c.):

C. SITO N°: SF200643 del 20-07-20

PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

LAT. (WGS 84): 44.836948° LONG. (WGS 84): 11.365769°

OPERATORE: L. Formisano

prof.	qc	fs	U	incl.	prof.	qc	fs	U	incl.	prof.	qc	fs	U	incl.	prof.	qc	fs	U	incl.	prof.	qc	fs	U	incl.	prof.	qc	fs	U	incl.																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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10.02	1.17	46.45	165.40	3.87	12.02	1.53	49.14	194.71	4.68	14.02	1.41	36.39	192.27	5.49	16.02	2.19	132.42	165.40	6.32	18.02	17.23	41.28	132.84	7.03	20.02	1.72	42.45	165.40	3.88	22.02	1.88	44.12	165.40	3.88	24.02	1.98	46.06	165.40	3.88	26.02	2.07	47.90	165.40	3.88	28.02	2.16	49.74	165.40	3.88	30.02	2.25	51.58	165.40	3.88	32.02	2.34	53.42	165.40	3.88	34.02	2.43	55.26	165.40	3.88	36.02	2.52	57.10	165.40	3.88	38.02	2.61	58.94	165.40	3.88	40.02	2.70	60.78	165.40	3.88	42.02	2.79	62.62	165.40	3.88	44.02	2.88	64.46	165.40	3.88	46.02	2.97	66.30	165.40	3.88	48.02	3.06	68.14	165.40	3.88	50.02	3.15	70.00	165.40	3.88	52.02	3.24	71.84	165.40	3.88	54.02	3.33	73.68	165.40	3.88	56.02	3.42	75.52	165.40	3.88	58.02	3.51	77.36	165.40	3.88	60.02	3.60	79.20	165.40	3.88	62.02	3.69	81.04	165.40	3.88	64.02	3.78	82.88	165.40	3.88	66.02	3.87	84.72	165.40	3.88	68.02	3.96	86.56	165.40	3.88	70.02	4.05	88.40	165.40	3.88	72.02	4.14	90.24	165.40	3.88	74.02	4.23	92.08	165.40	3.88	76.02	4.32	93.92	165.40	3.88	78.02	4.41	95.76	165.40	3.88	80.02	4.50	97.60	165.40	3.88	82.02	4.59	99.44	165.40	3.88	84.02	4.68	101.28	165.40	3.88	86.02	4.77	103.12	165.40	3.88	88.02	4.86	104.96	165.40	3.88	90.02	4.95	106.80	165.40	3.88	92.02	5.04	108.64	165.40	3.88	94.02	5.13	110.48	165.40	3.88	96.02	5.22	112.32	165.40	3.88	98.02	5.31	114.16	165.40	3.88	100.02	5.40	116.00	165.40	3.88	102.02	5.49	117.84	165.40	3.88	104.02	5.58	119.68	165.40	3.88	106.02	5.67	121.52	165.40	3.88	108.02	5.76	123.36	165.40	3.88	110.02	5.85	125.20	165.40	3.88	112.02	5.94	127.04	165.40	3.88	114.02	6.03	128.88	165.40	3.88	116.02	6.12	130.72	165.40	3.88	118.02	6.21	132.56	165.40	3.88	120.02	6.30	134.40	165.40	3.88	122.02	6.39	136.24	165.40	3.88	124.02	6.48	138.08	165.40	3.88	126.02	6.57	139.92	165.40	3.88	128.02	6.66	141.76	165.40	3.88	130.02	6.75	143.60	165.40	3.88	132.02	6.84	145.44	165.40	3.88	134.02	6.93	147.28	165.40	3.88	136.02	7.02	149.12	165.40	3.88	138.02	7.11	150.96	165.40	3.88	140.02	7.20	152.80	165.40	3.88	142.02	7.29	154.64	165.40	3.88	144.02	7.38	156.48	165.40	3.88	146.02	7.47	158.32	165.40	3.88	148.02	7.56	160.16	165.40	3.88	150.02	7.65	162.00	165.40	3.88	152.02	7.74	163.84	165.40	3.88	154.02	7.83	165.68	165.40	3.88	156.02	7.92	167.52	165.40	3.88	158.02	8.01	169.36	165.40	3.88	160.02	8.10	171.20	165.40	3.88	162.02	8.19	173.04	165.40	3.88	164.02	8.28	174.88	165.40	3.88	166.02	8.37	176.72	165.40	3.88	168.02	8.46	178.56	165.40	3.88	170.02	8.55	180.40	165.40	3.88	172.02	8.64	182.24	165.40	3.88	174.02	8.73	184.08	165.40	3.88	176.02	8.82	185.92	165.40	3.88	178.02	8.91	187.76	165.40	3.88	180.02	9.00	189.60	165.40	3.88	182.02	9.09	191.44	165.40	3.88	184.02	9.18	193.28	165.40	3.88	186.02	9.27	195.12	165.40	3.88	188.02	9.36	196.96	165.40	3.88	190.02	9.45	198.80	165.40	3.88	192.02	9.54	200.64	165.40	3.88	194.02	9.63	202.48	165.40	3.88	196.02	9.72	204.32	165.40	3.88	198.02	9.81	206.16	165.40	3.88	200.02	9.90	208.00	165.40	3.88

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COMMITTENTE: NEA s.r.l. - Via Saragat, 1 - 44122 - Ferrara (FE)

CANTIERE: Via Correggio - Casumaro (MO)

PROVA N°: CPTU 08 PROF. FALDA (m da p.c.): 2.40

PUNTA: Tecnopenta G1-CPL2IN (matr. 121114)[a = 0.66]

DATA: 20-07-20 PREFORO (m da p.c.):

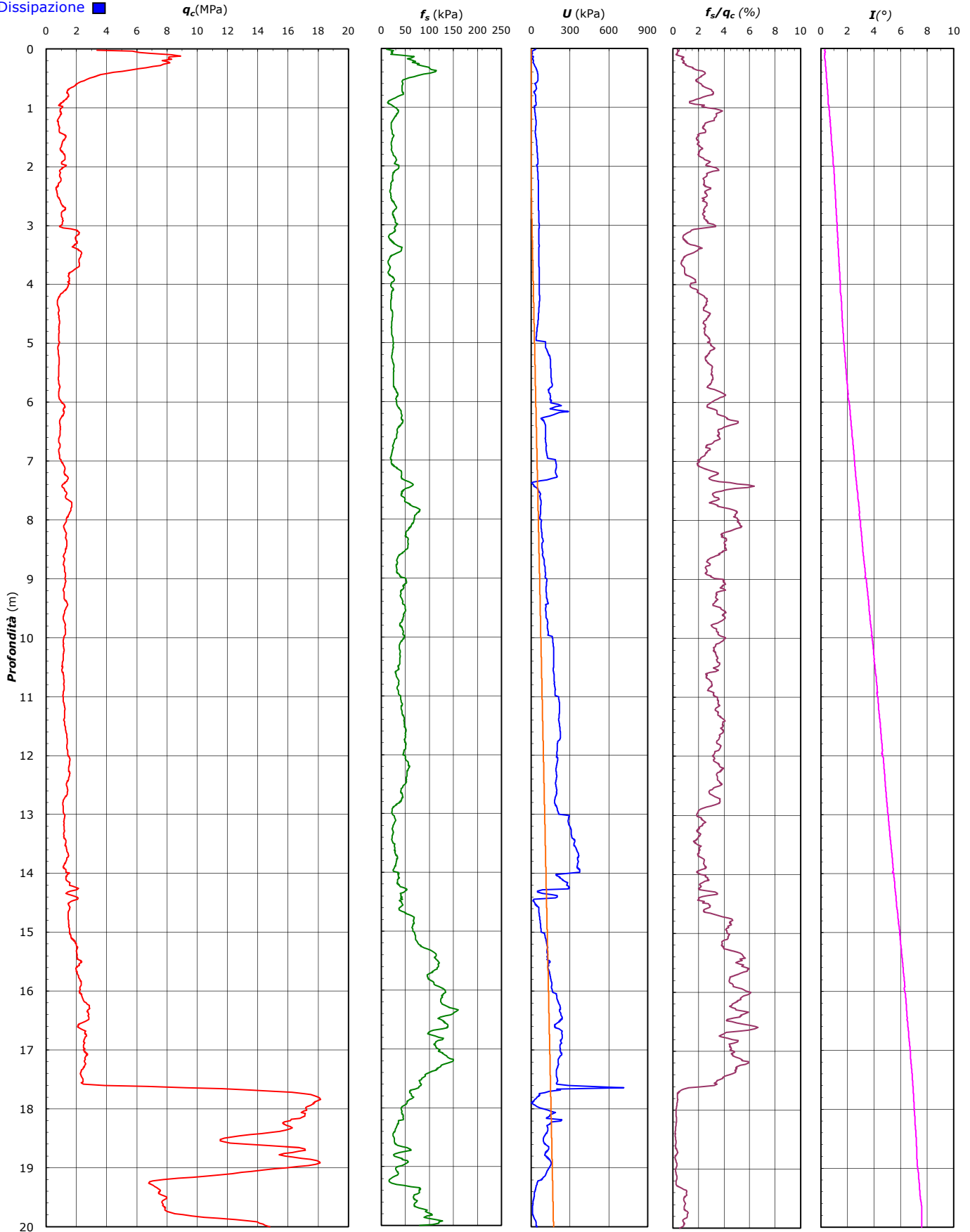
LAT. (WGS 84): 44.836948°

LONG. (WGS 84): 11.365769°

COMMESSA: 21340FE/20

C. SITO N°: SF200643 del 20-07-20 OPERATORE: L. Formisano

Dissipazione ■



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DATA: 20-07-20 PREFORO (m da p.c.): LAT. (WGS 84): 44.836948° LONG. (WGS 84): 11.365769°

COMMESSA: 21340FE/20 C. SITO N°: SF200643 del 20-07-20 OPERATORE: L. Formisano

UBICAZIONE

Località: Via Correggio - Casumaro (MO)



NOTE: Utilizzato 1 anello allargatore da inizio prova