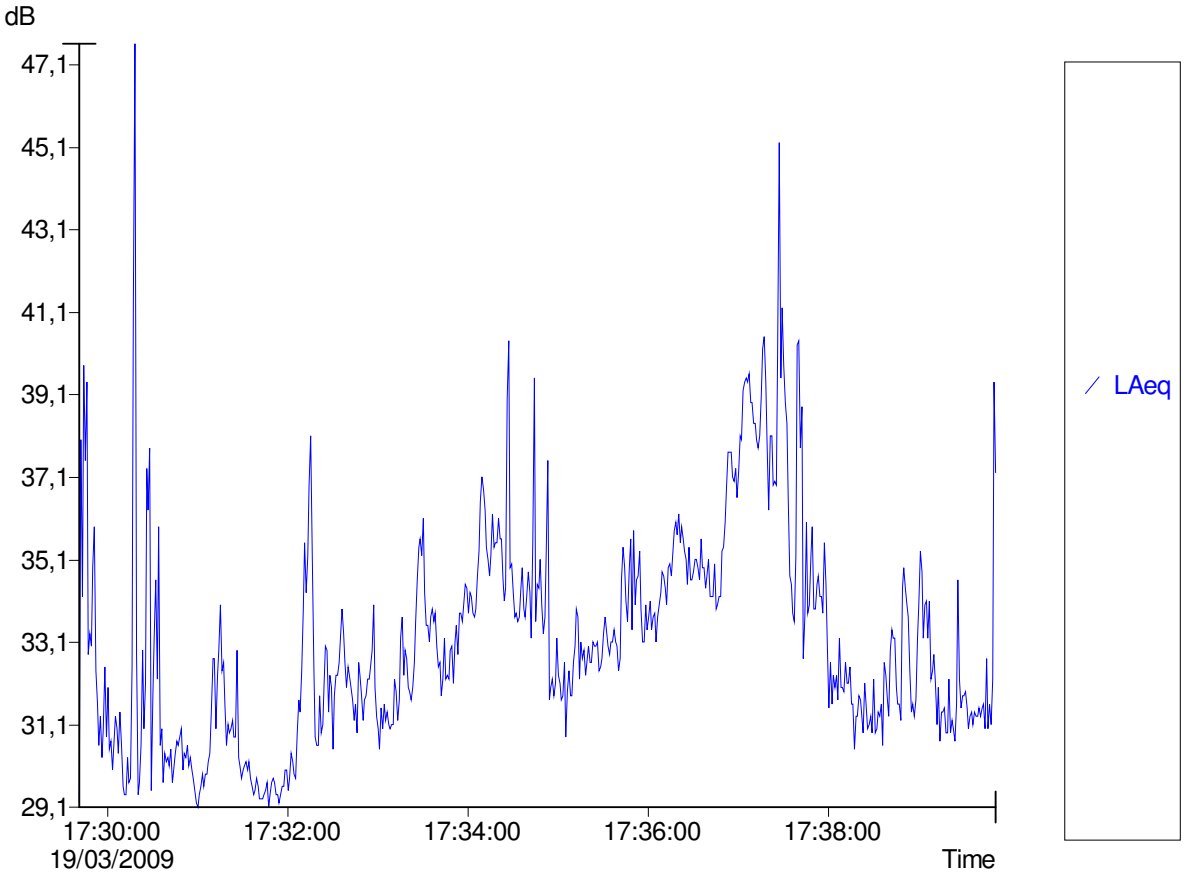
ANEXOS

I - HISTOGRAMAS DOS NÍVEIS DE PRESSÃO SONORA E VIBRAÇÃO

Ponto 03 A



Y:\CRJ00007.DTA
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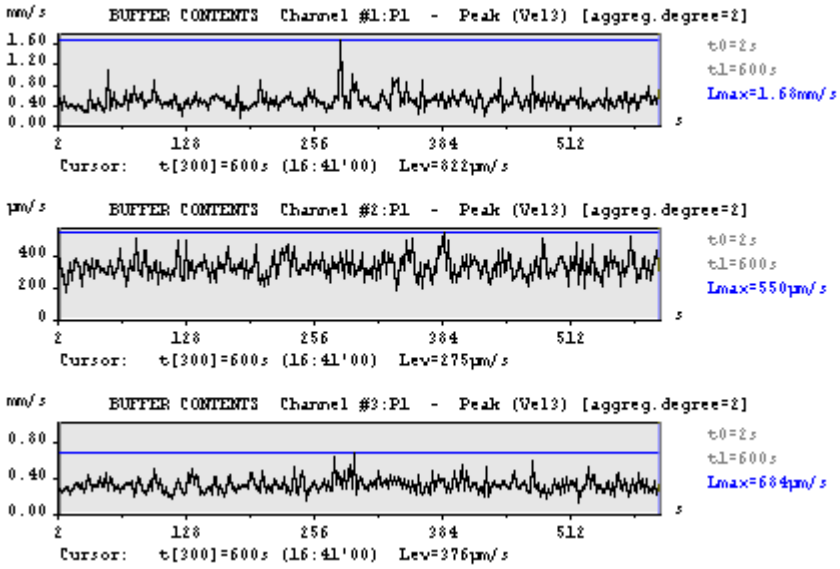
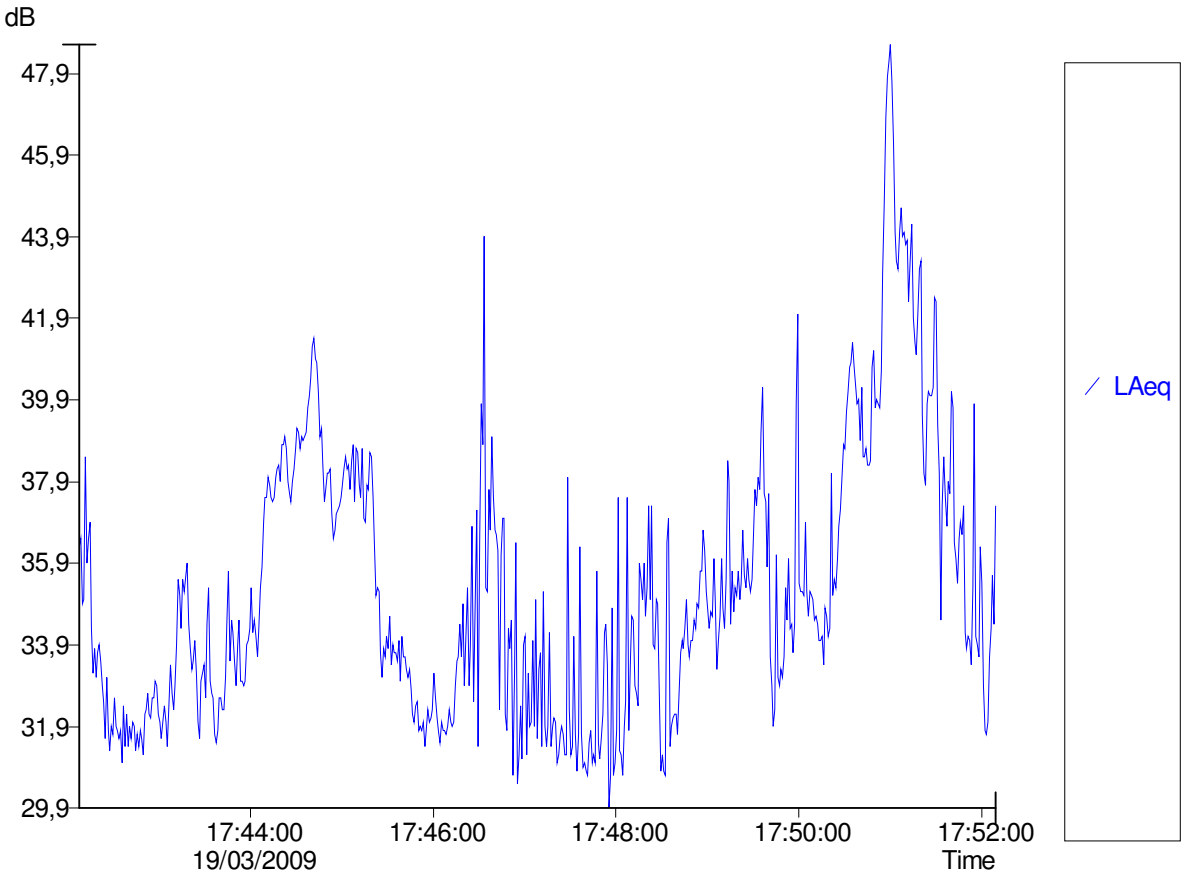
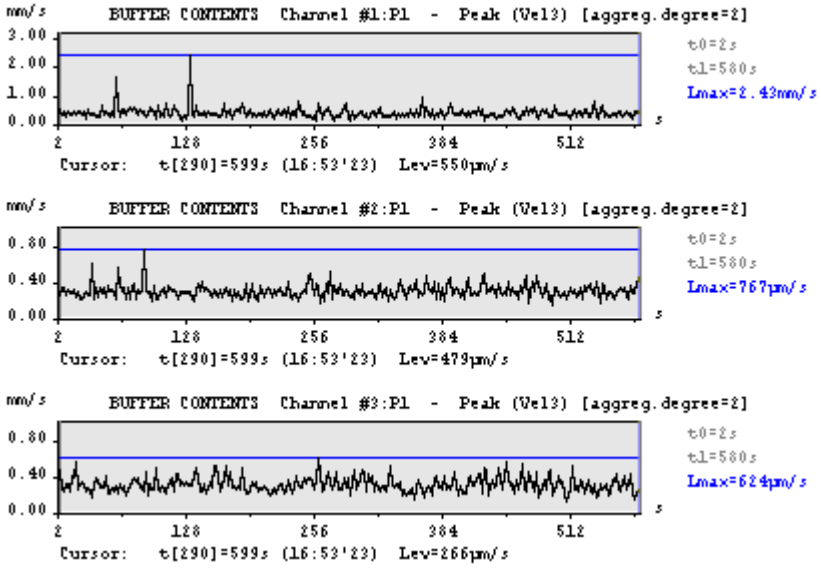


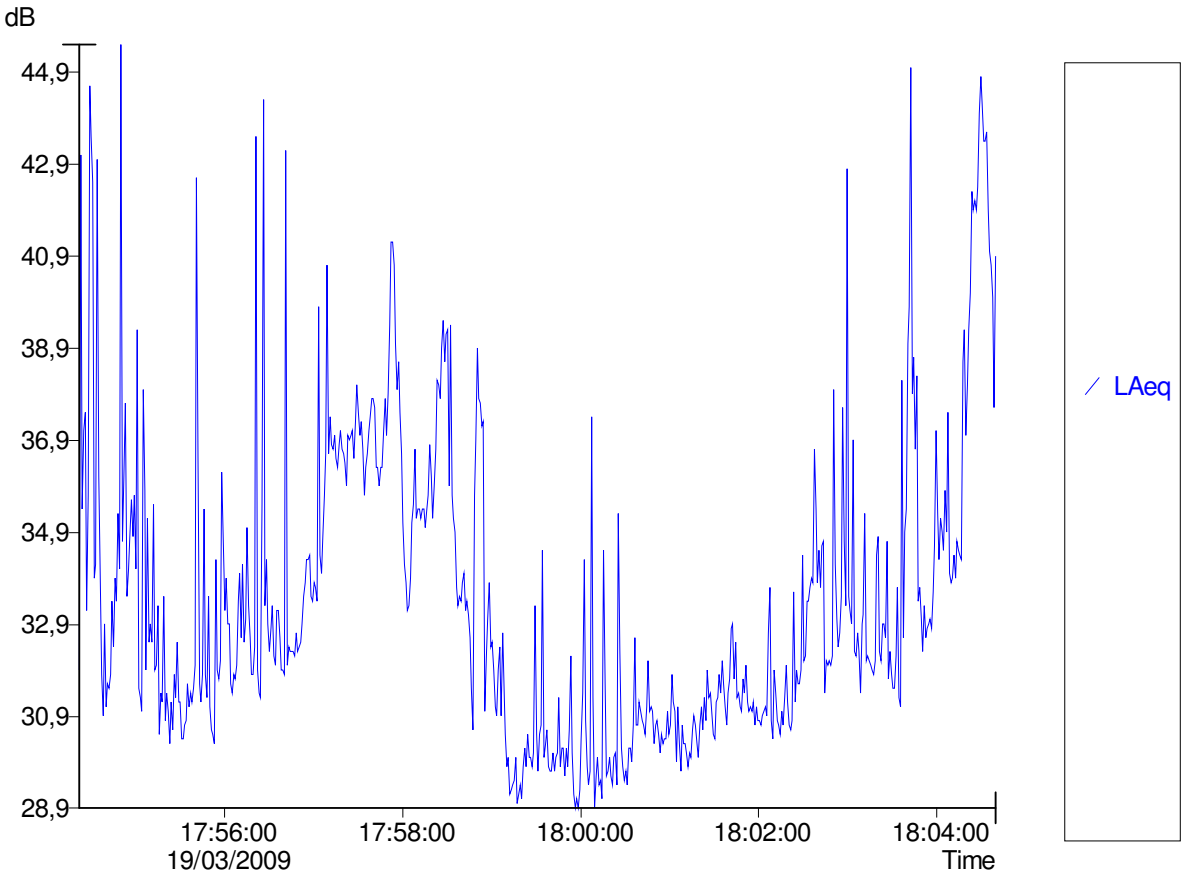
Ponto 03 B



Y:\CRJ00008.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 03 C



Y:\CRJ00009.DTA
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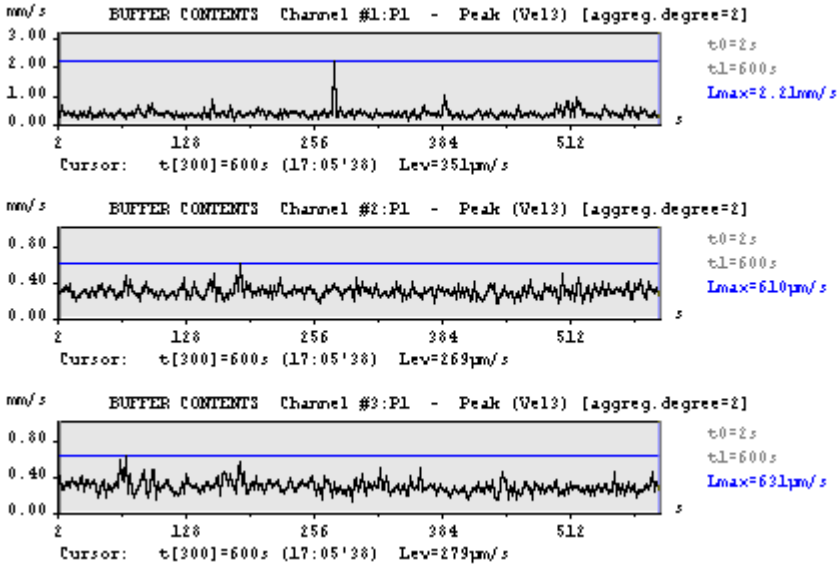
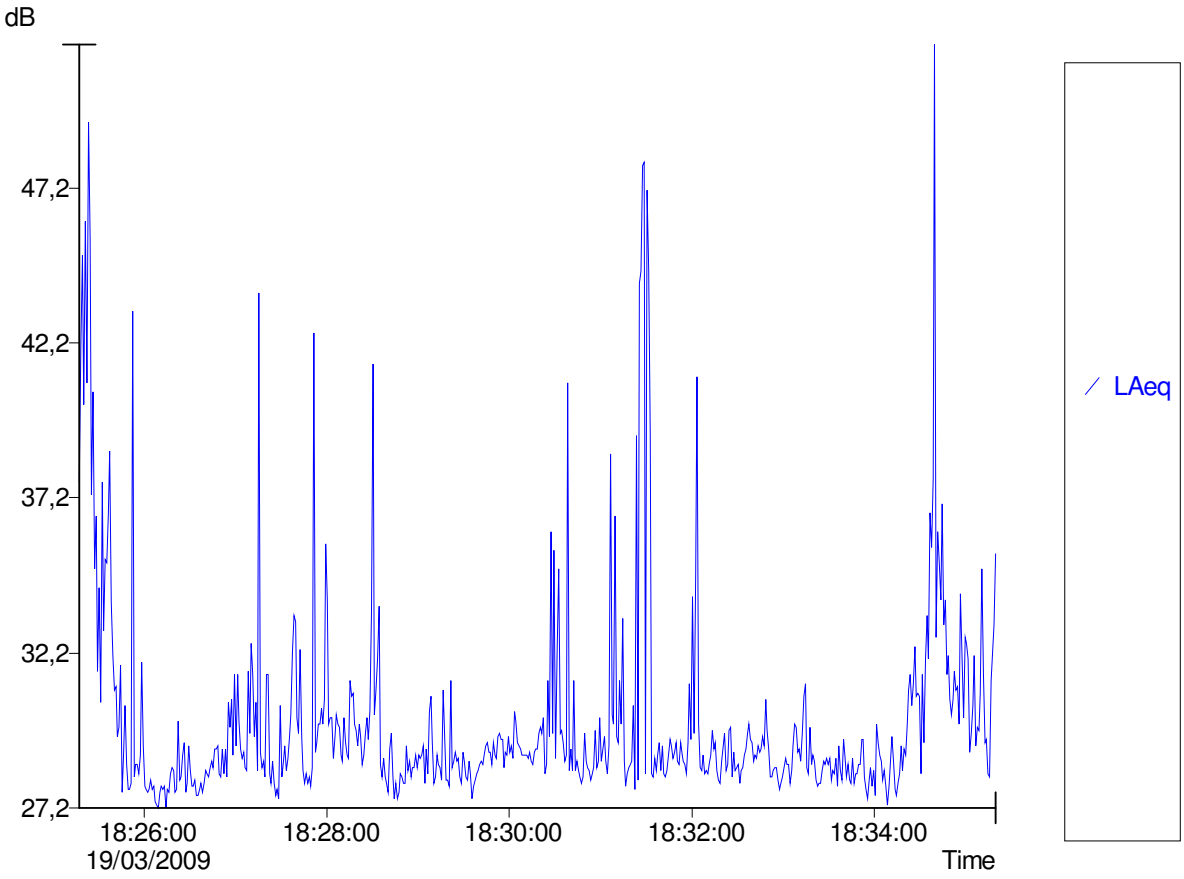


Ponto 04 A



Y:\CRJ00010.DTA
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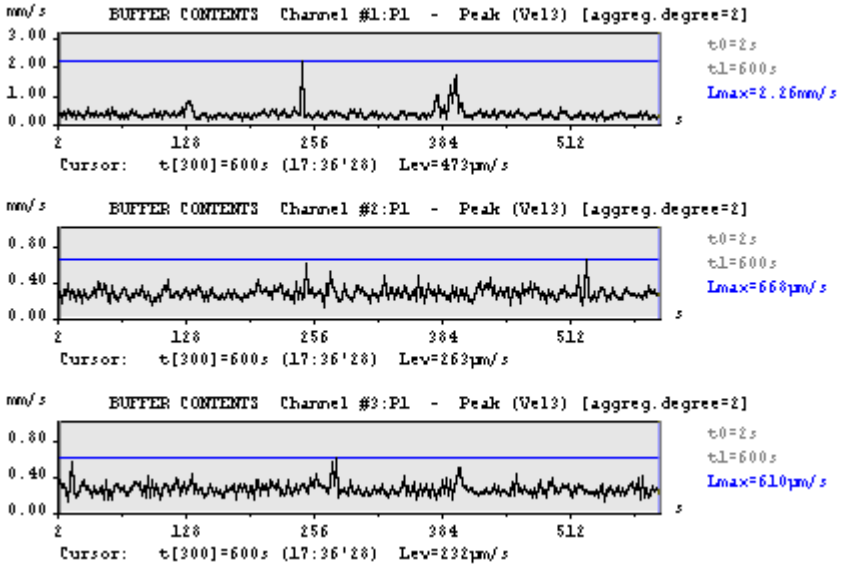
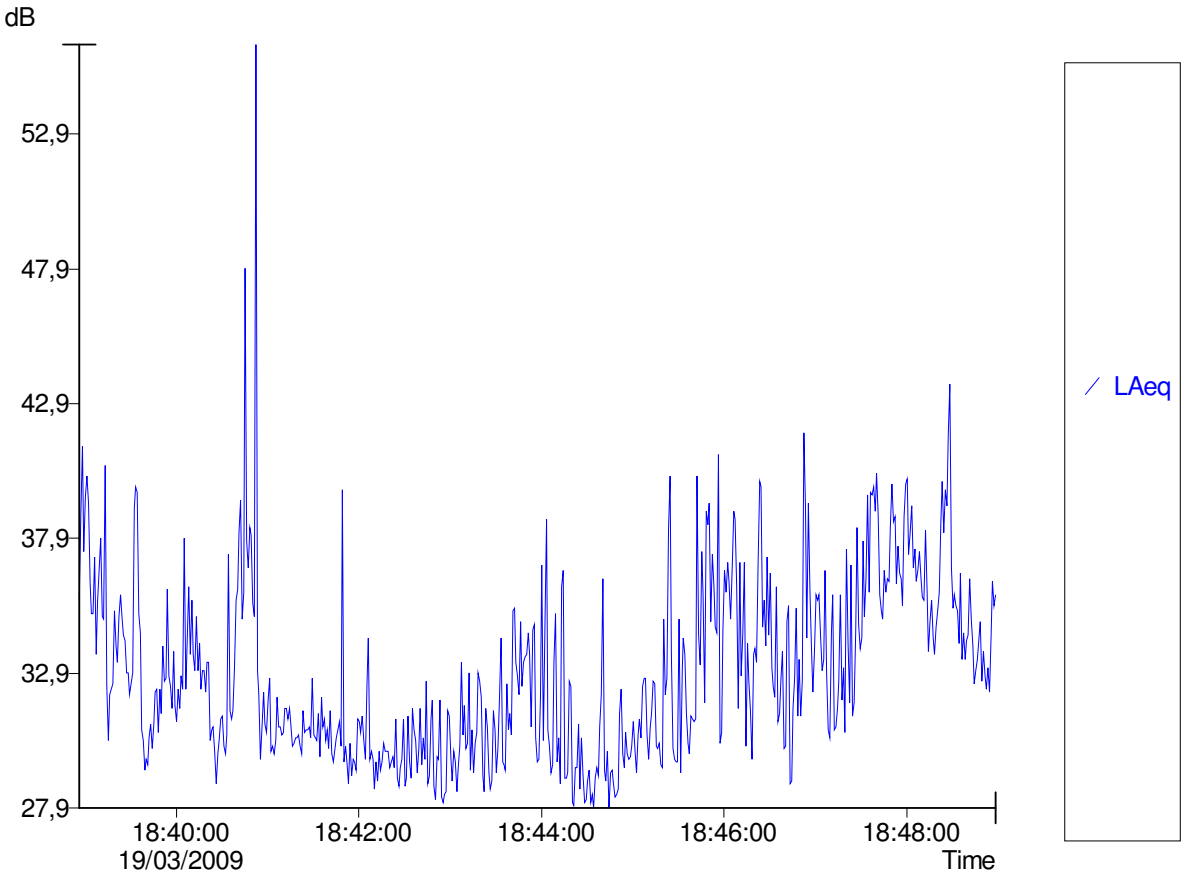
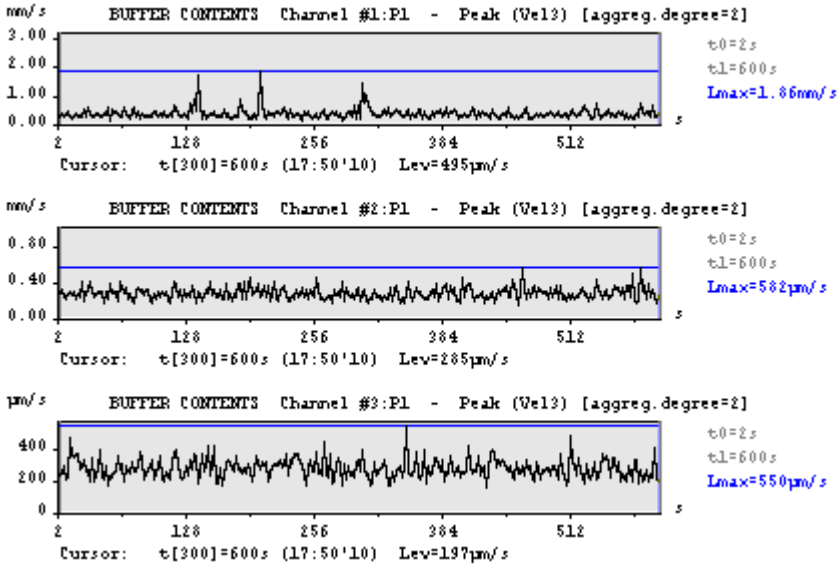


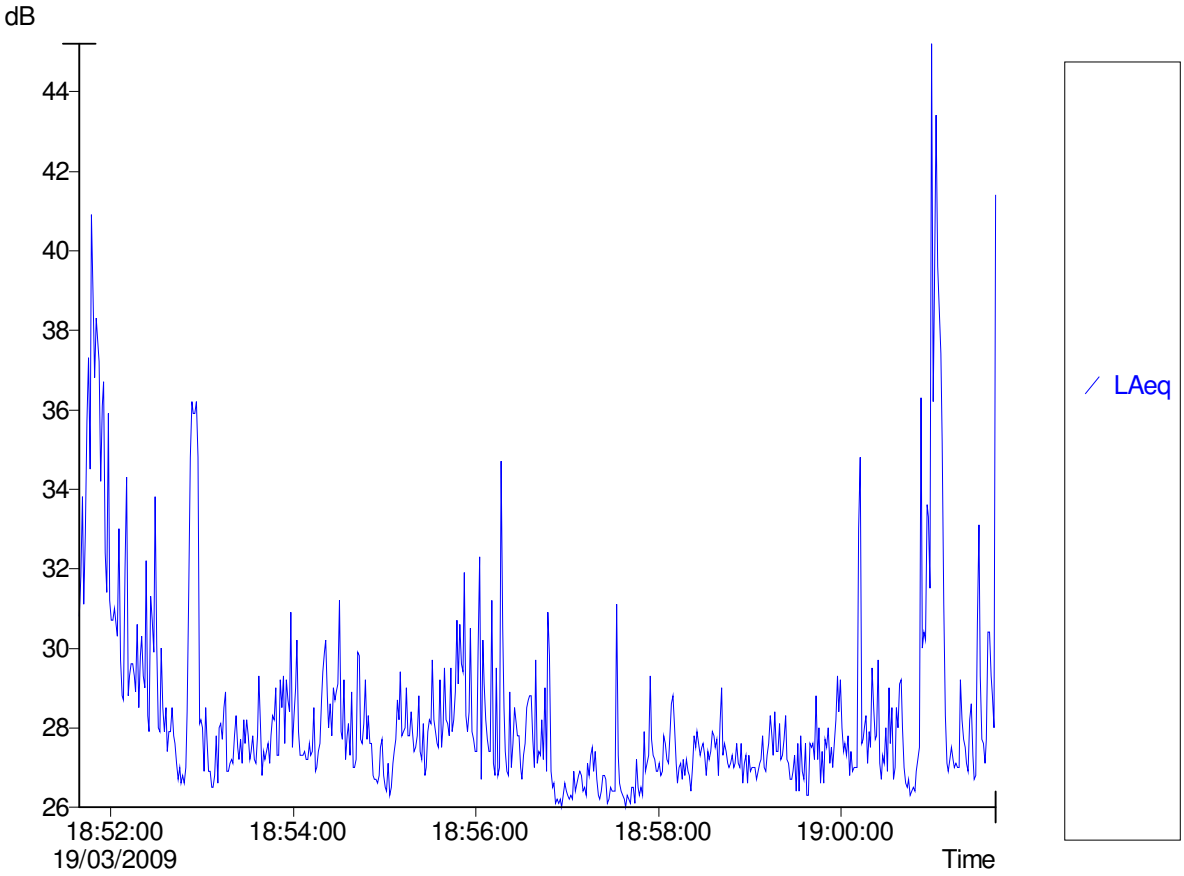
Ponto 04 B



Y:\CRJ00011.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 04 C



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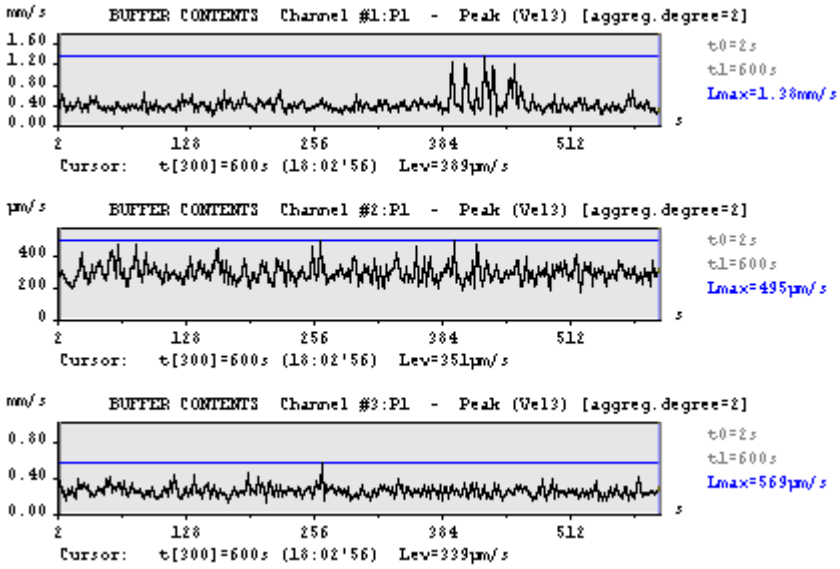
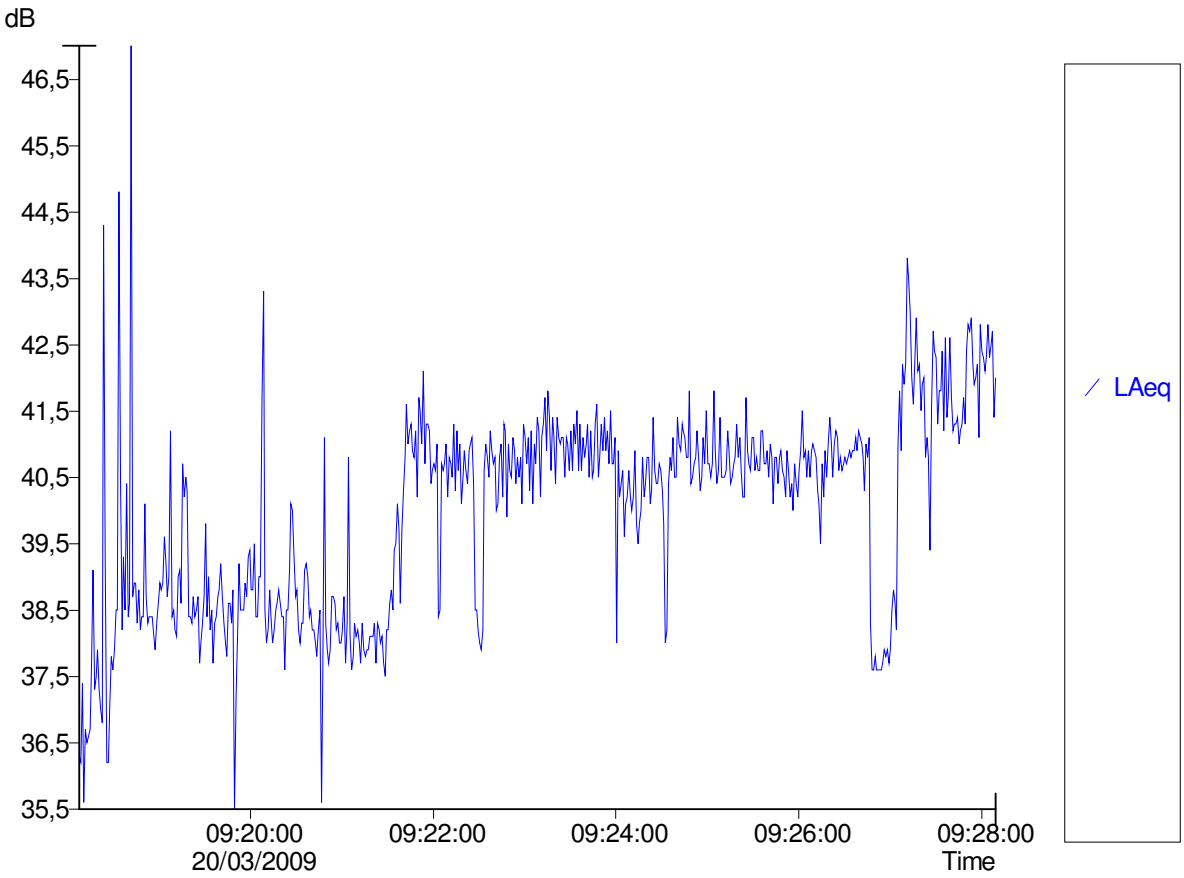


Ponto 05 A



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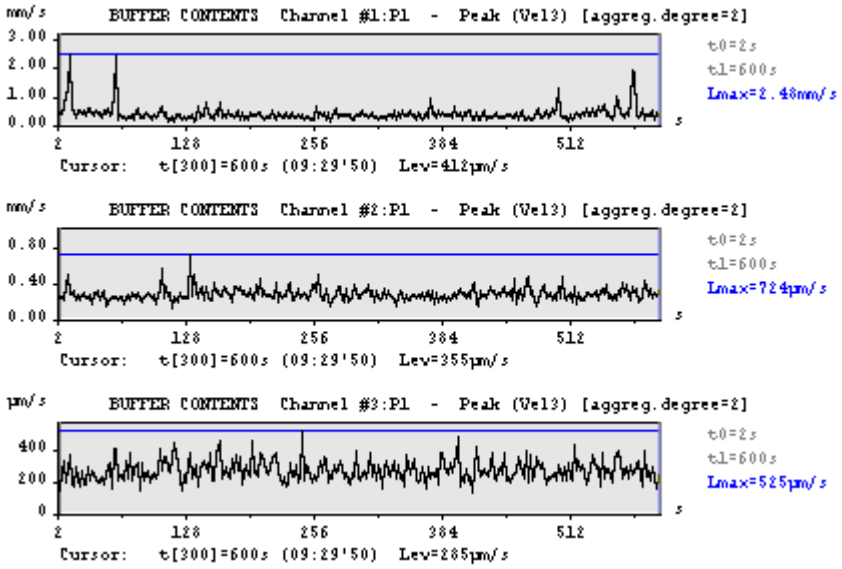
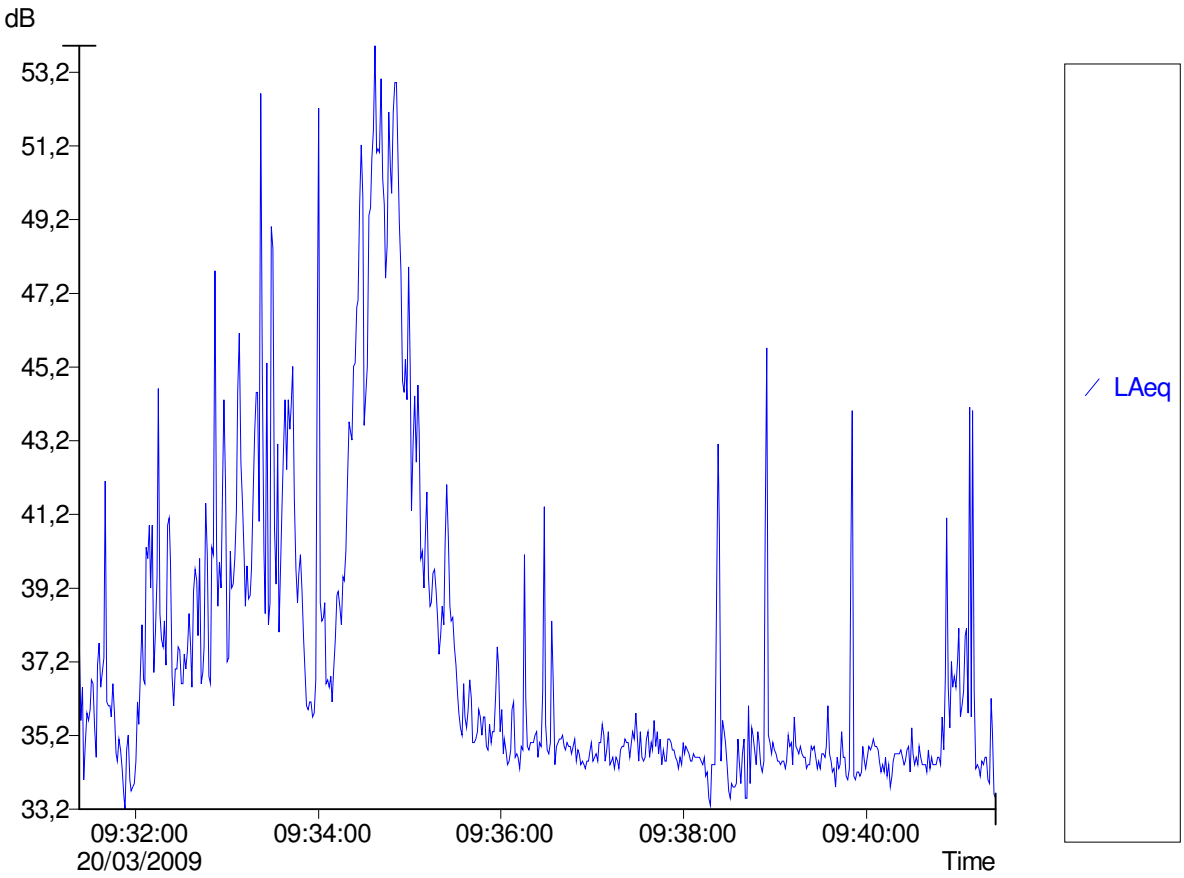


Ponto 05 B



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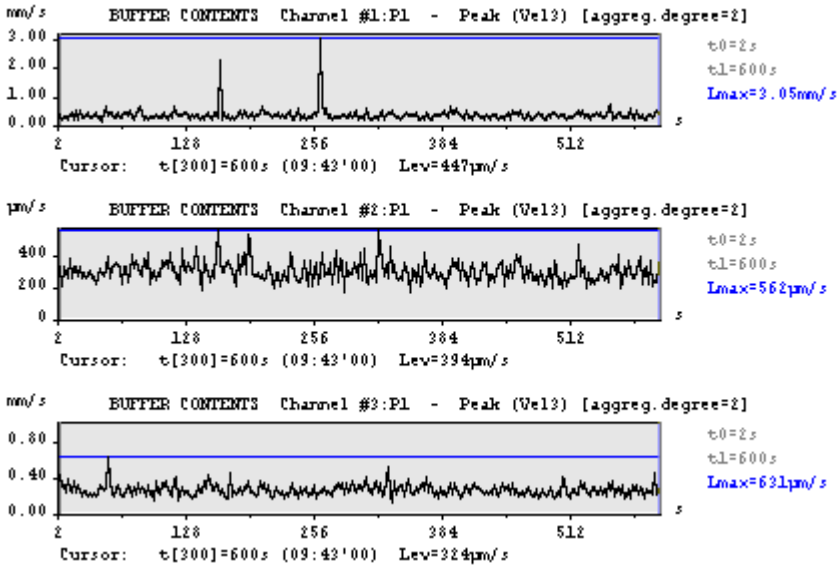
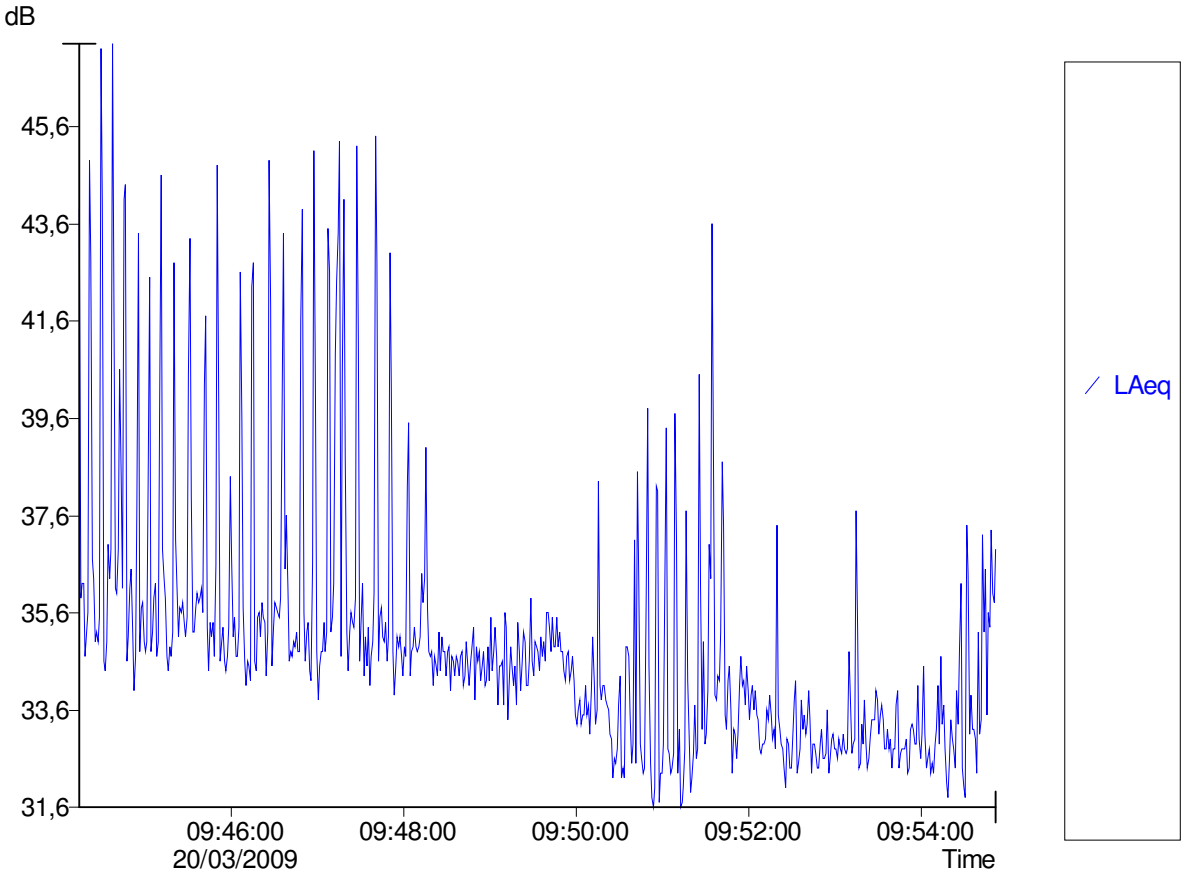


Ponto 05 C



Y:\CRJ00021.DTA
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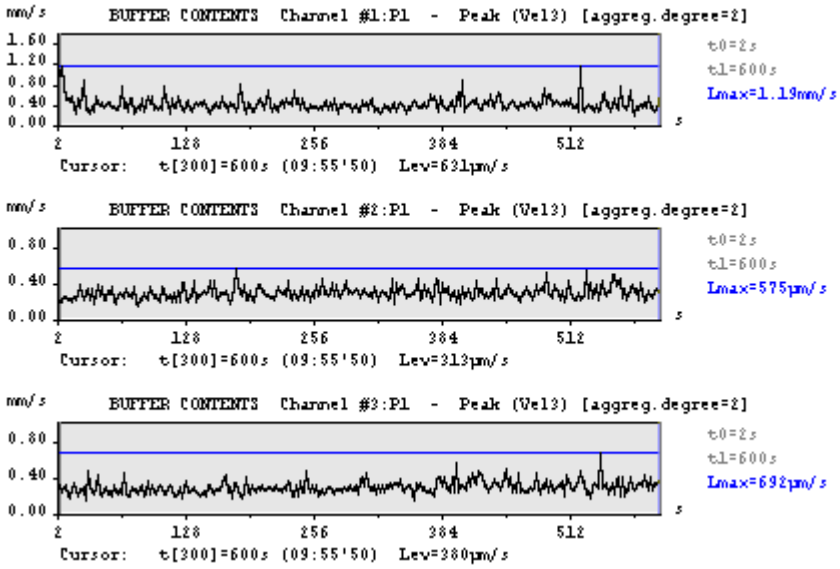
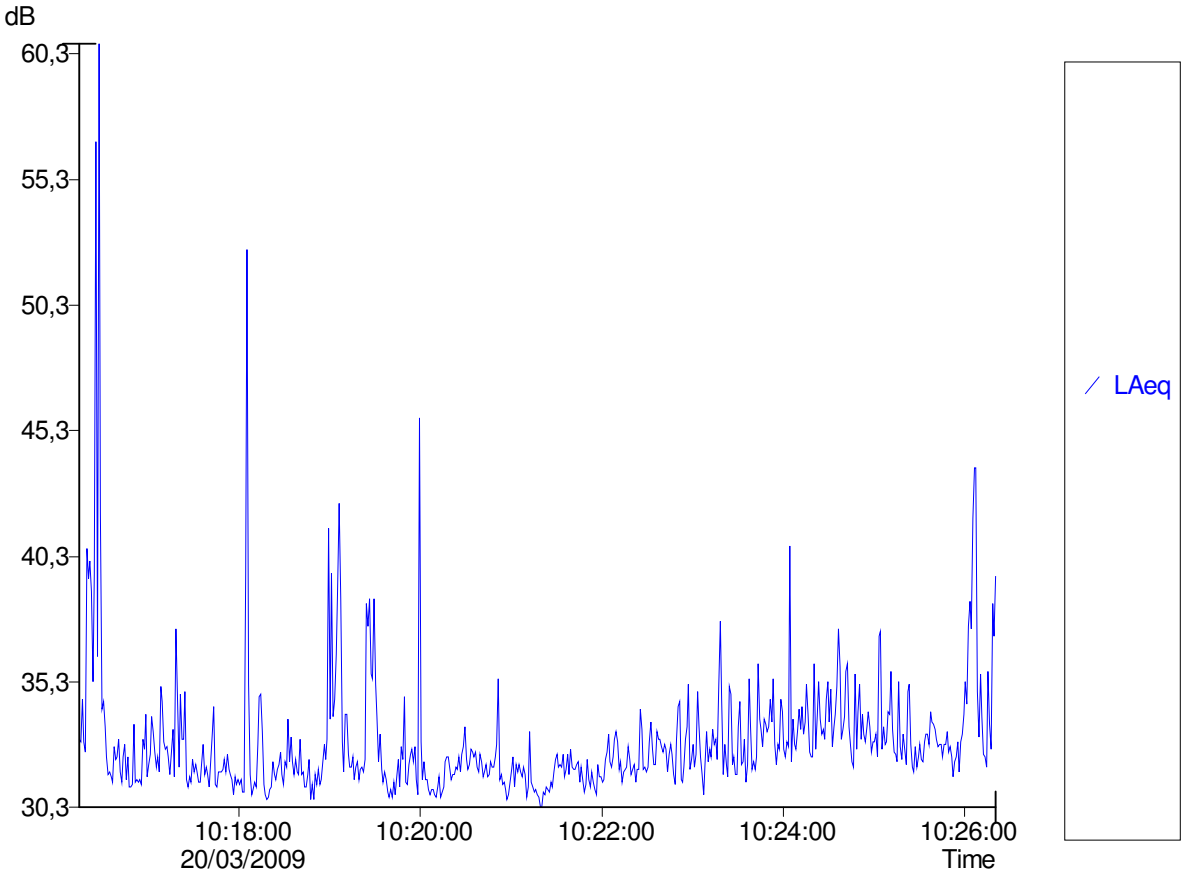


Ponto 06 A



Y:\CRJ00022.DTA
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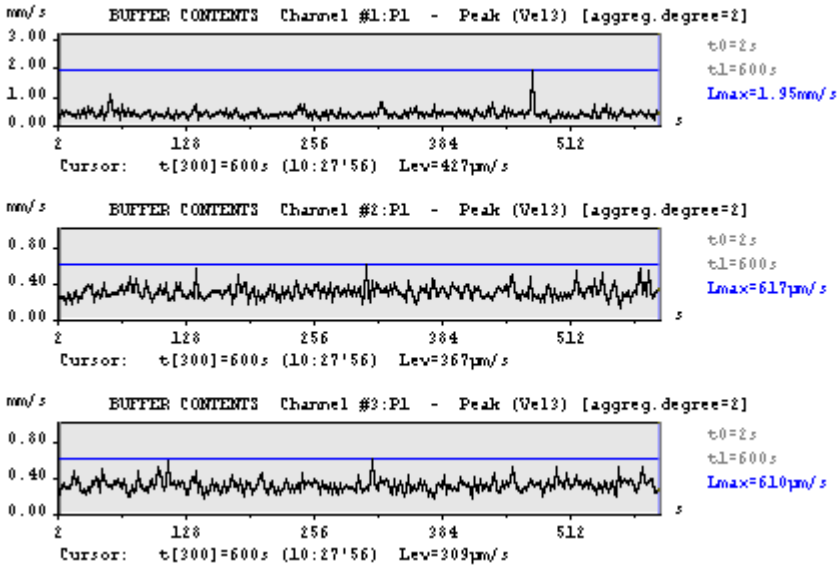
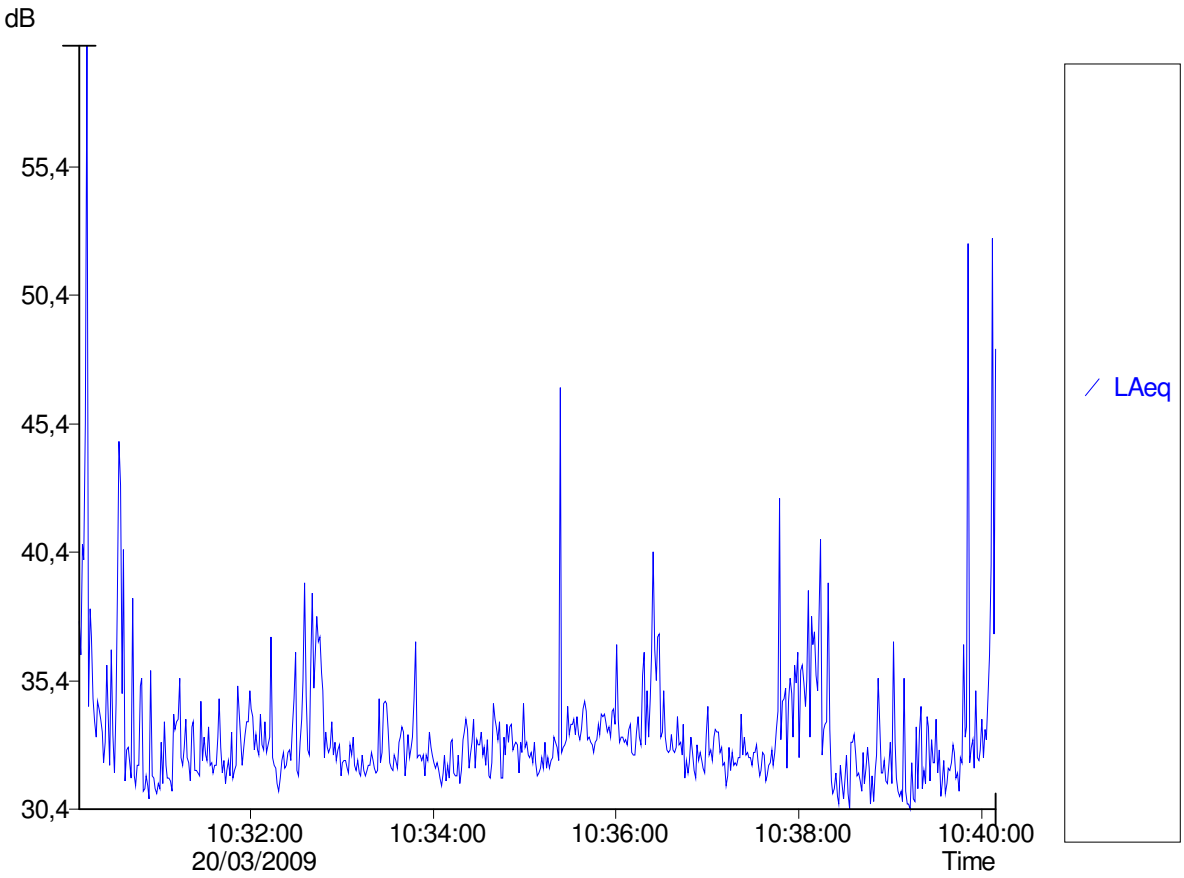
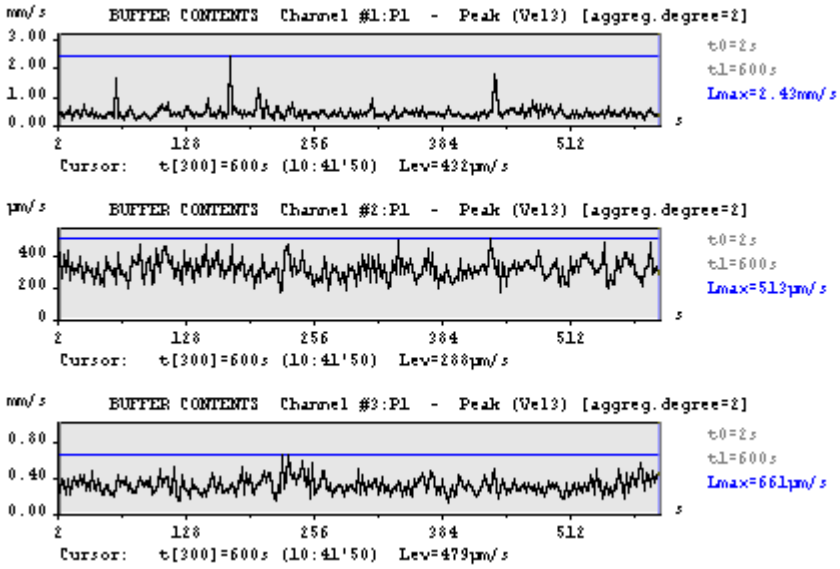


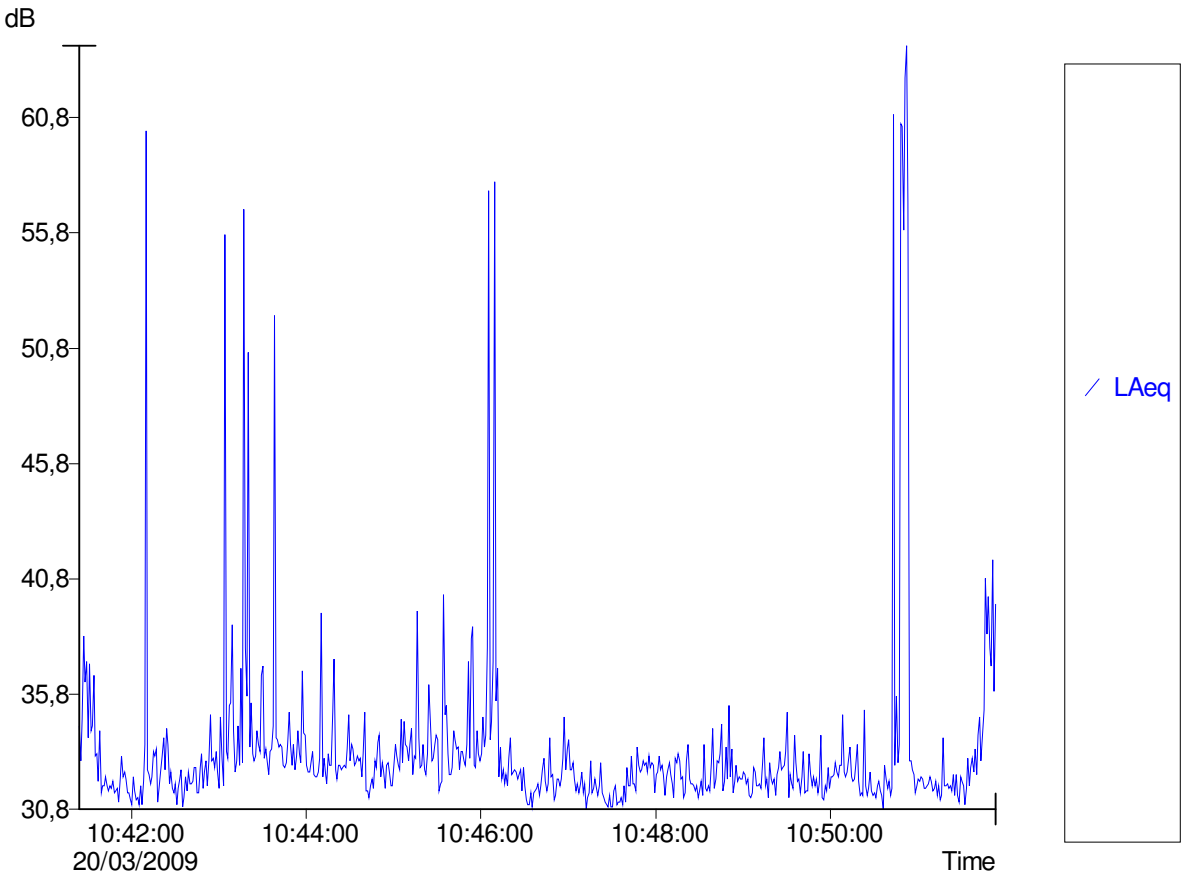
Ponto 06 B



Y:\CRJ00023.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 06 C



Y:\CRJ00024.DTA
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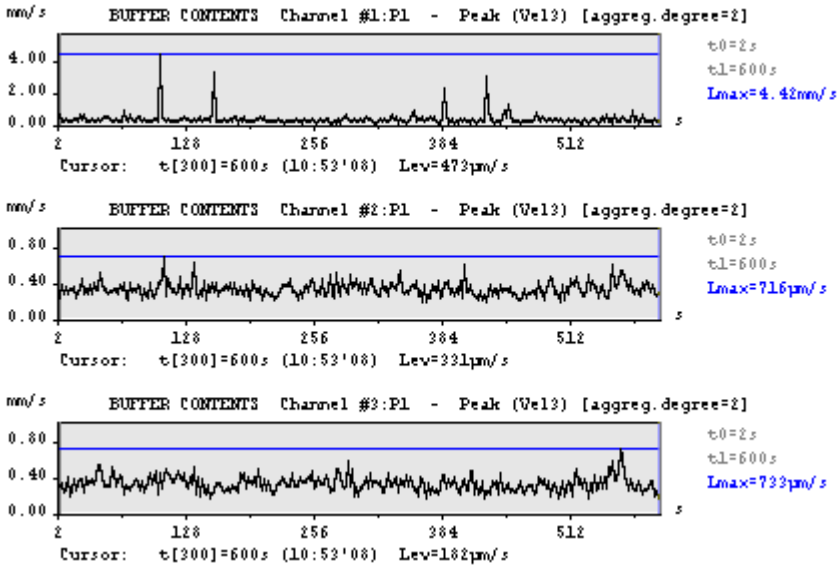
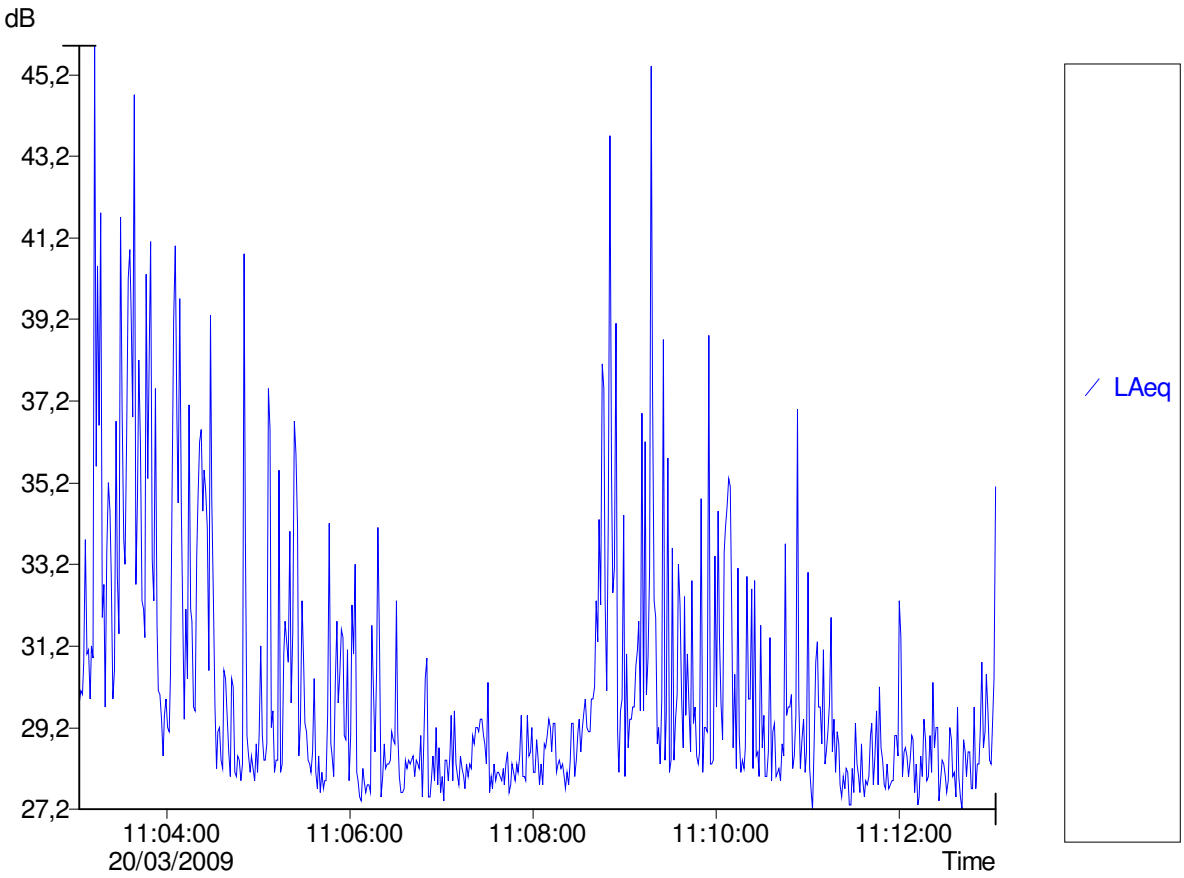


Ponto 07 A



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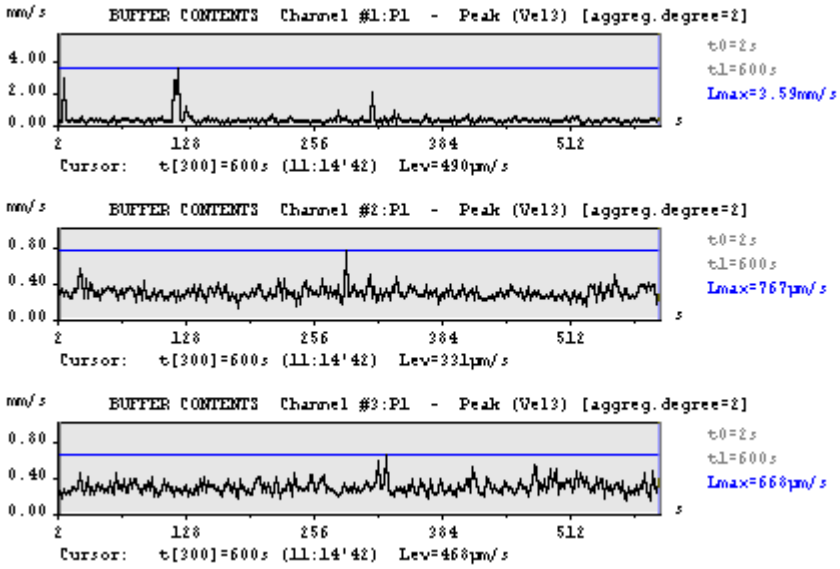
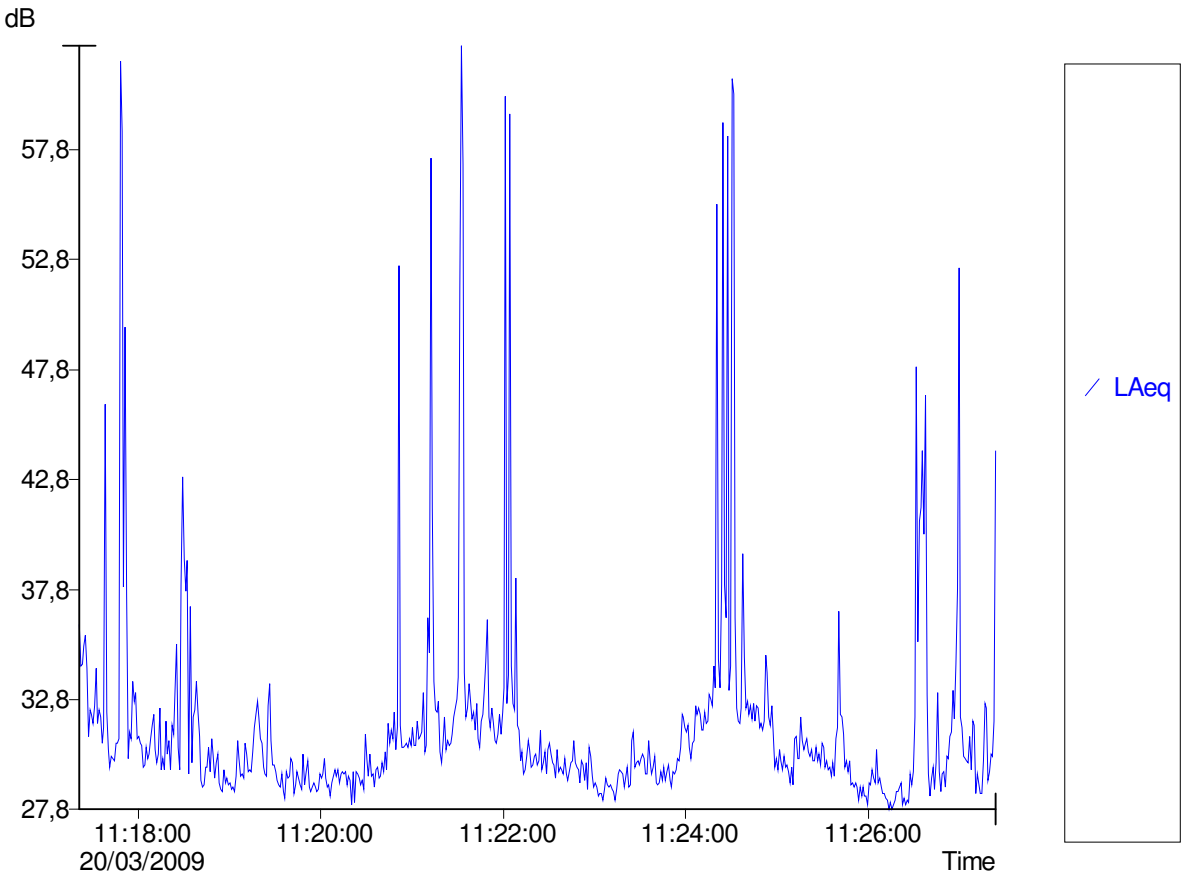
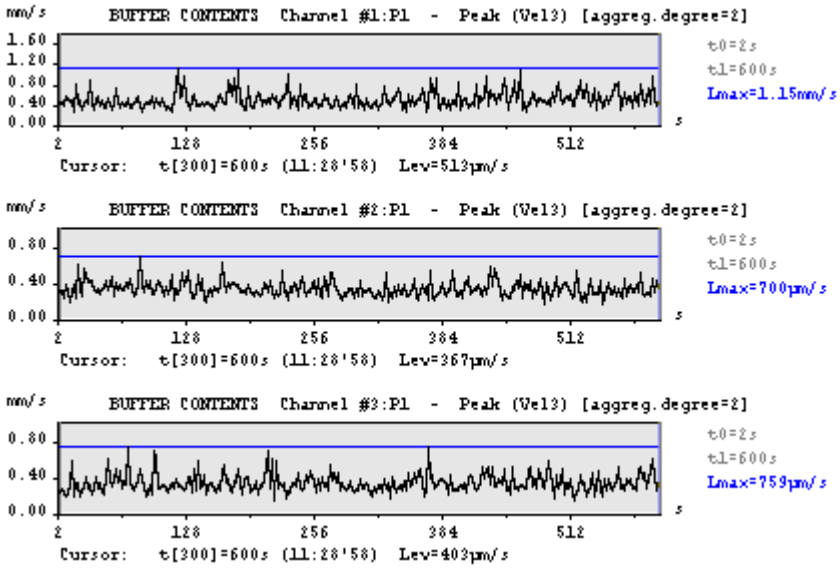


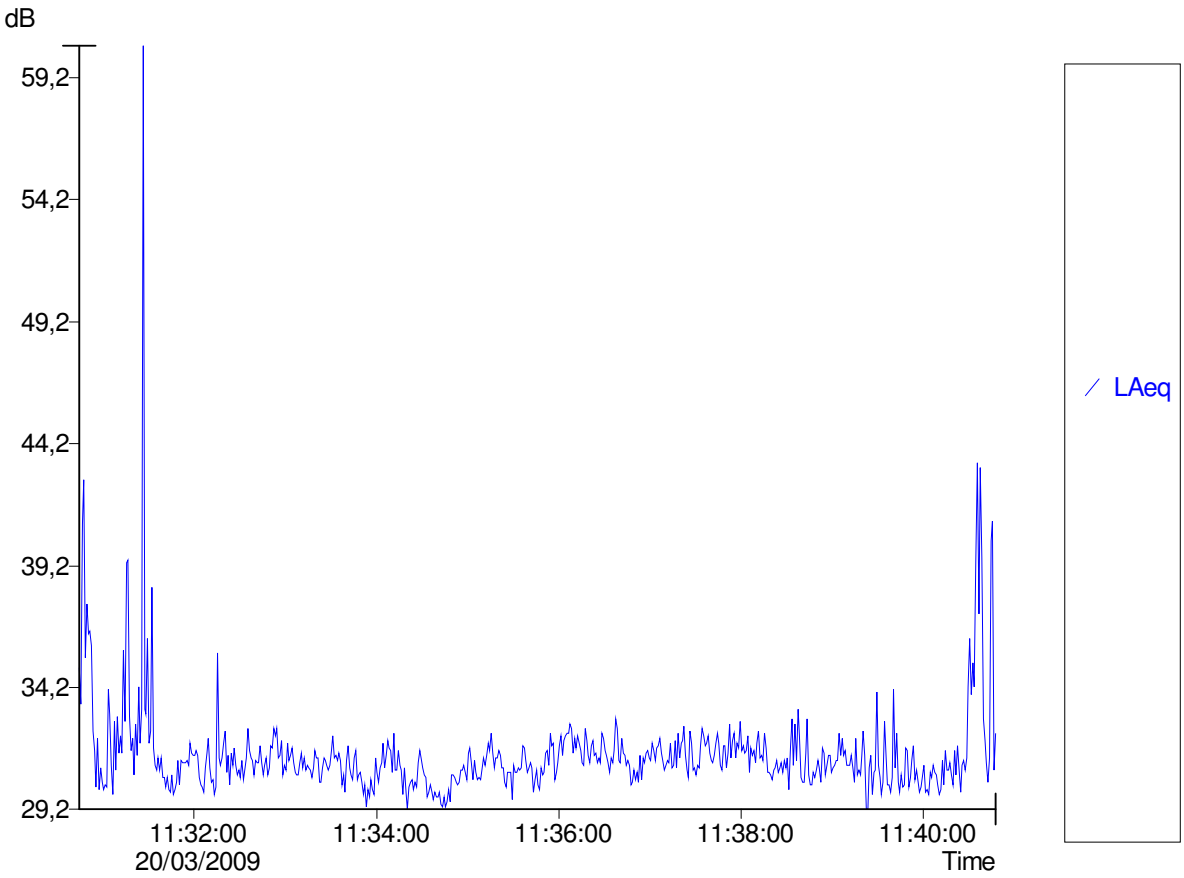
Ponto 07 B



Y:\CRJ00026.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 07 C



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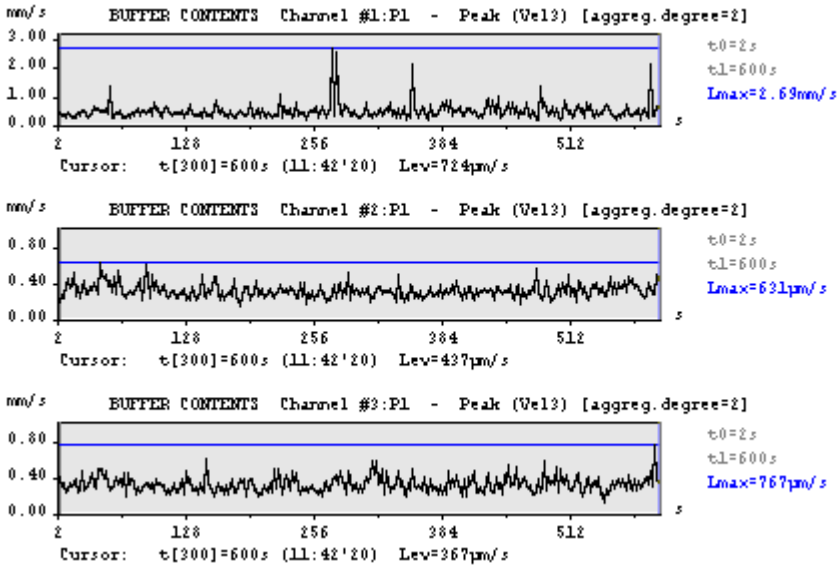
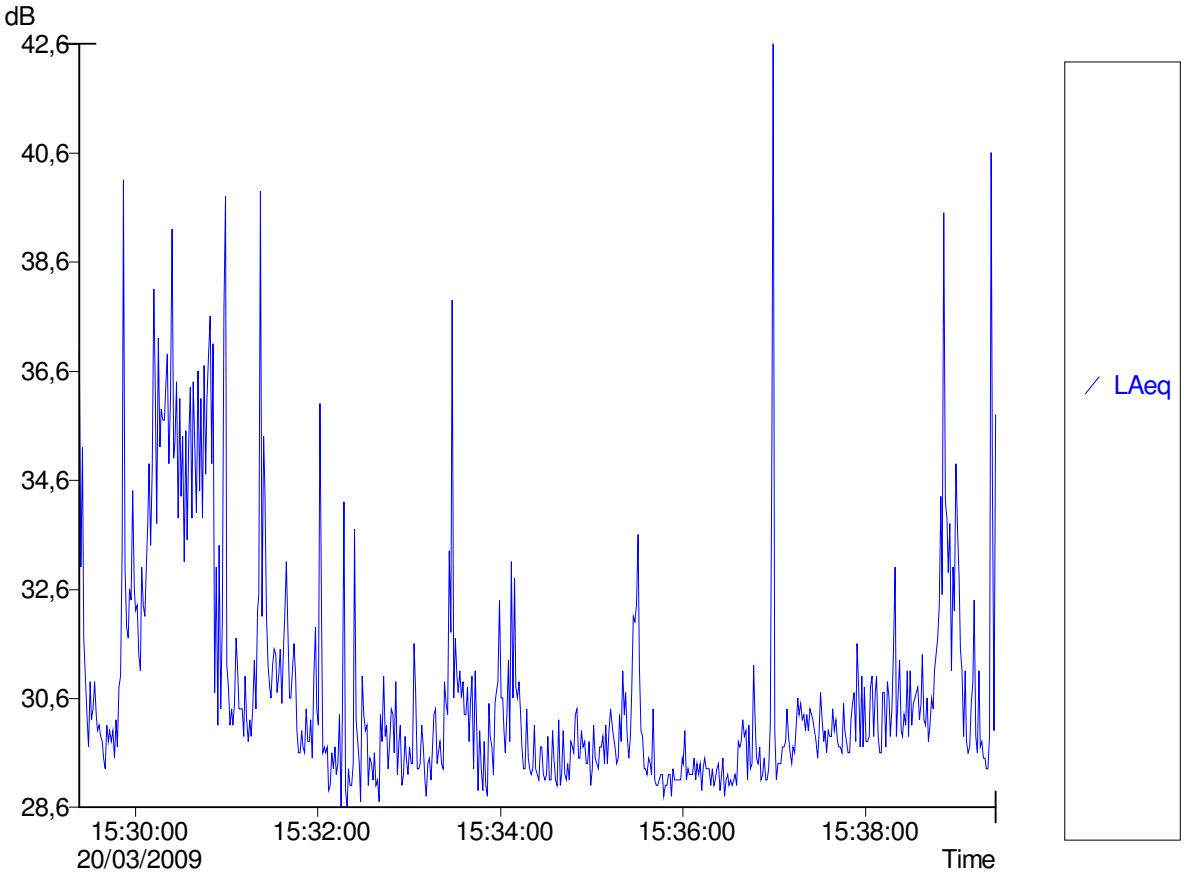
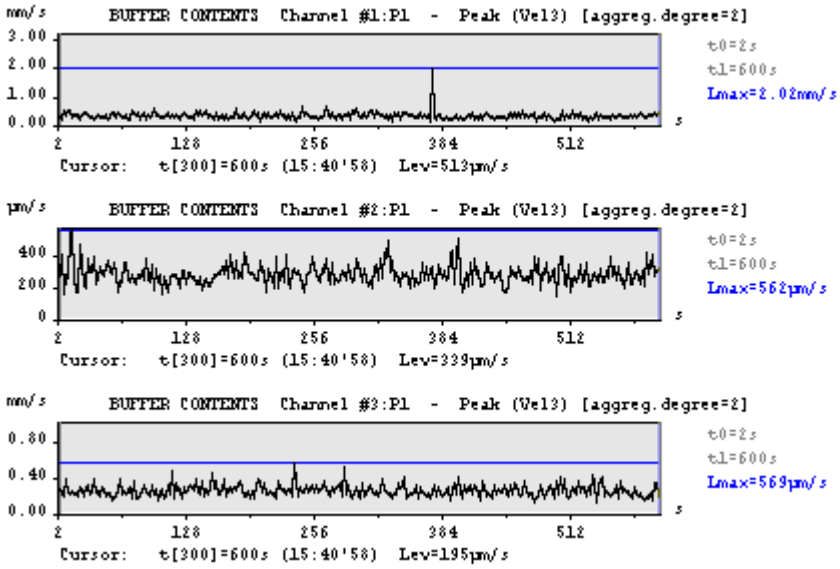
Overall profile duration = 00:10:04 (604 samples)



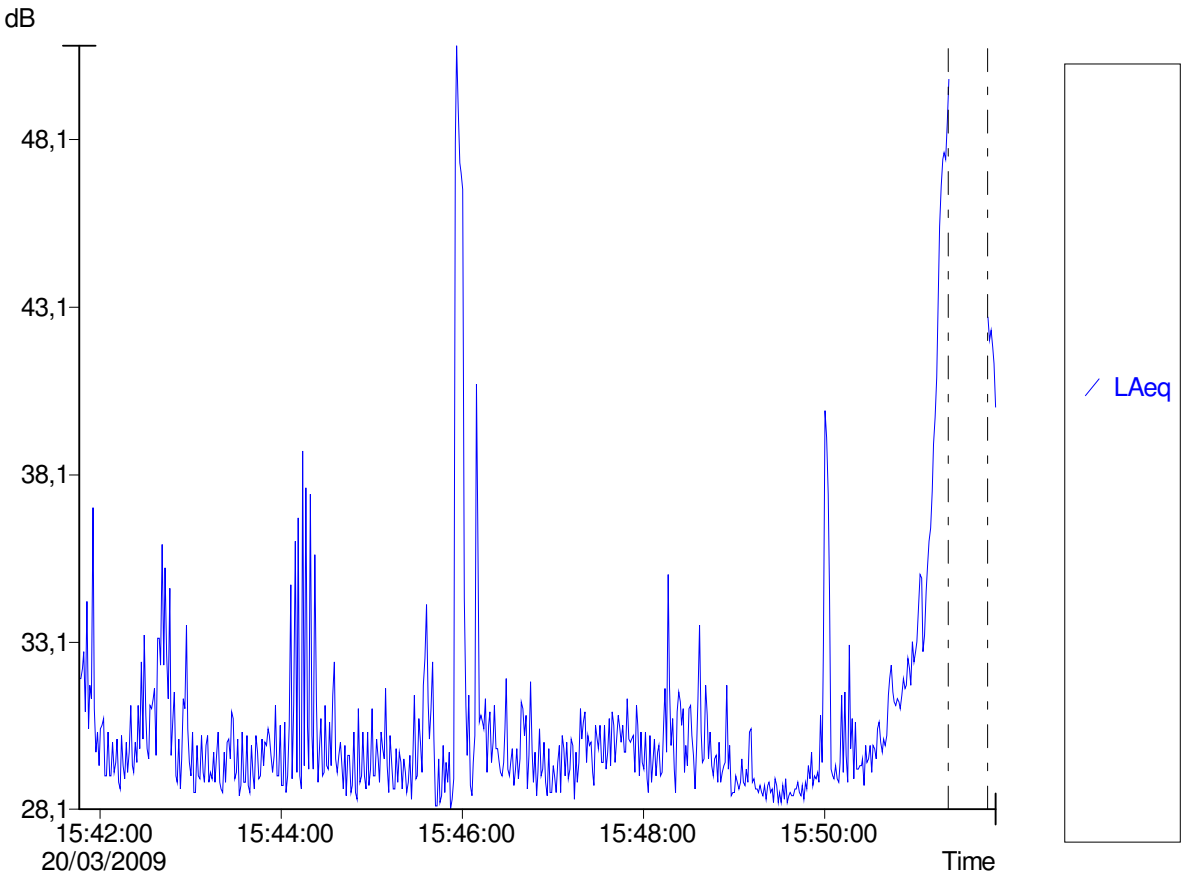
Ponto 09 A



Y:\CRJ00031.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 09 B



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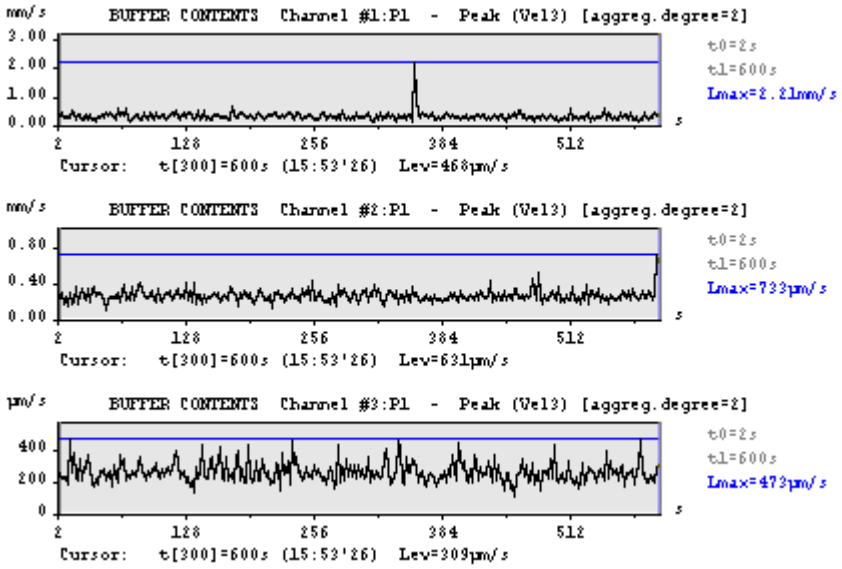
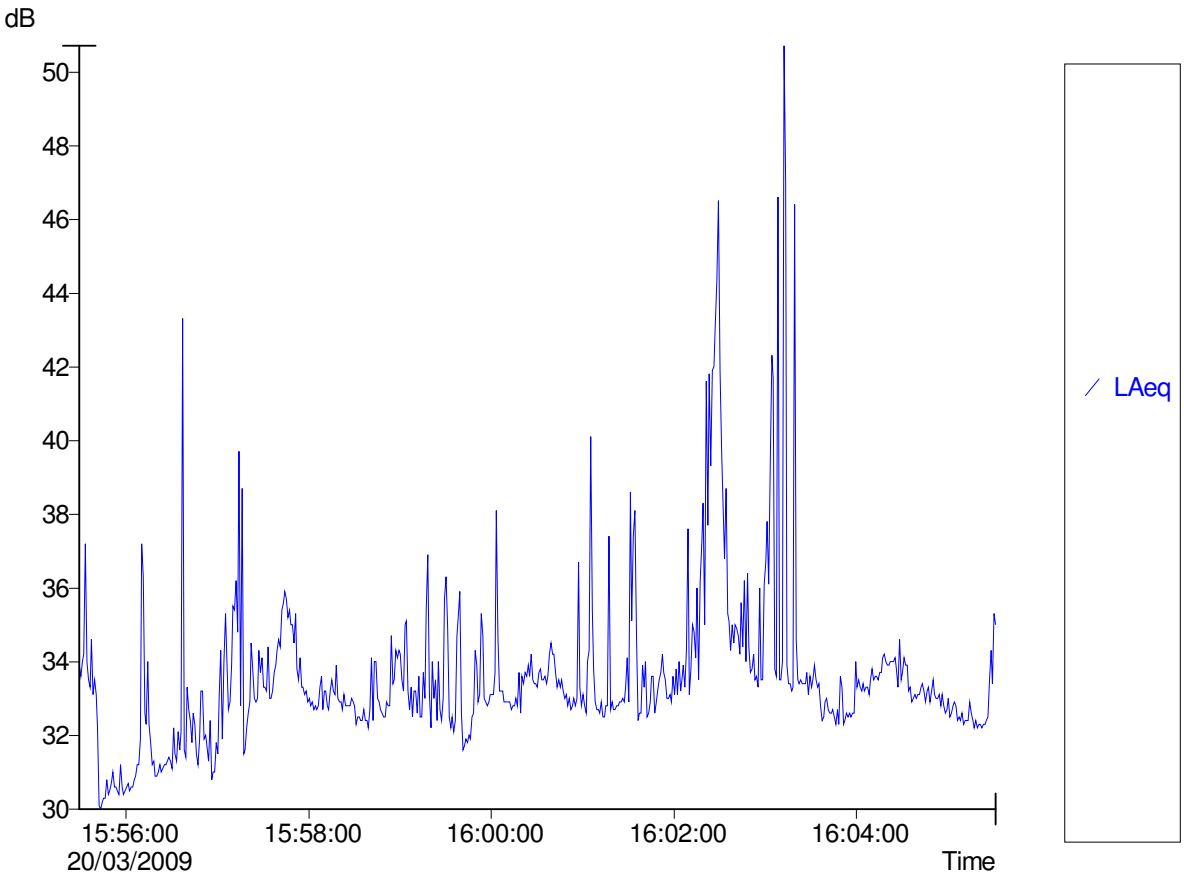
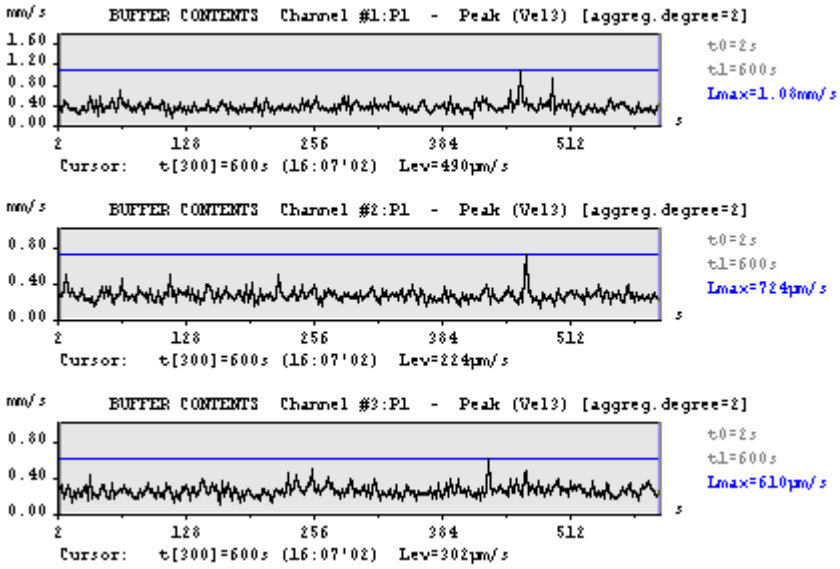


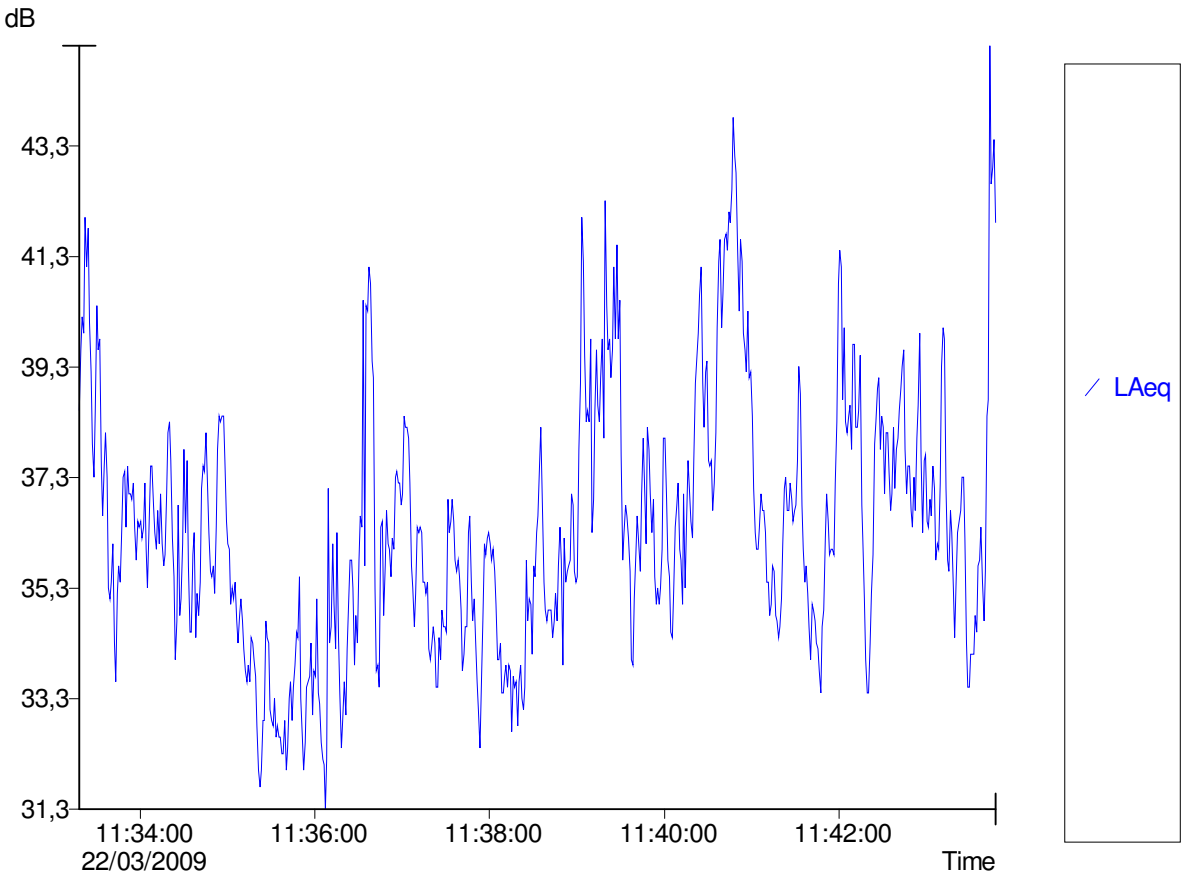
Ponto 09 C



Y:\CRJ00033.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 10 A



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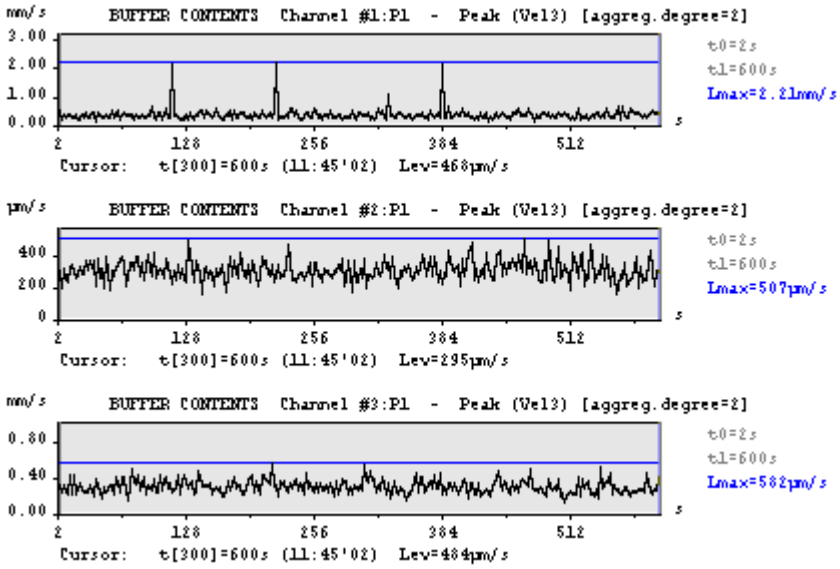
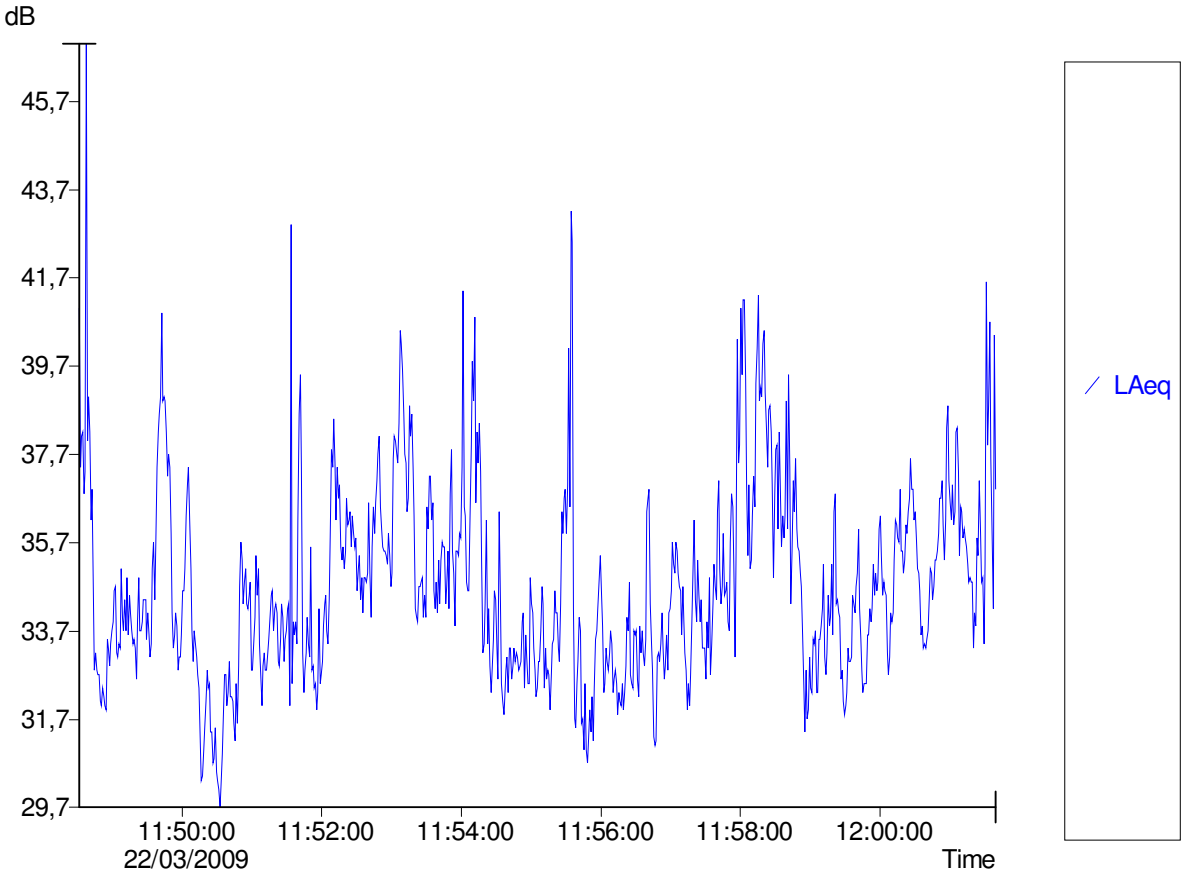


Ponto 10 B



Y:\CRJ00065.DTA
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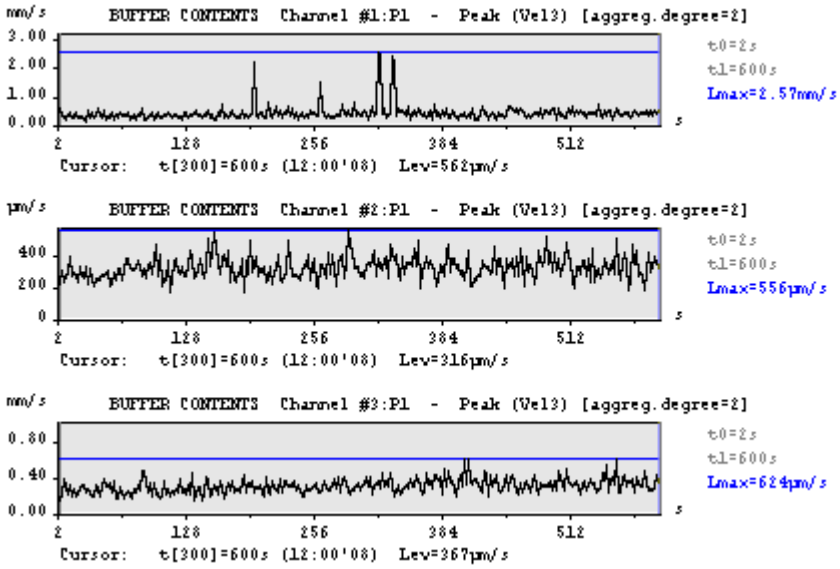
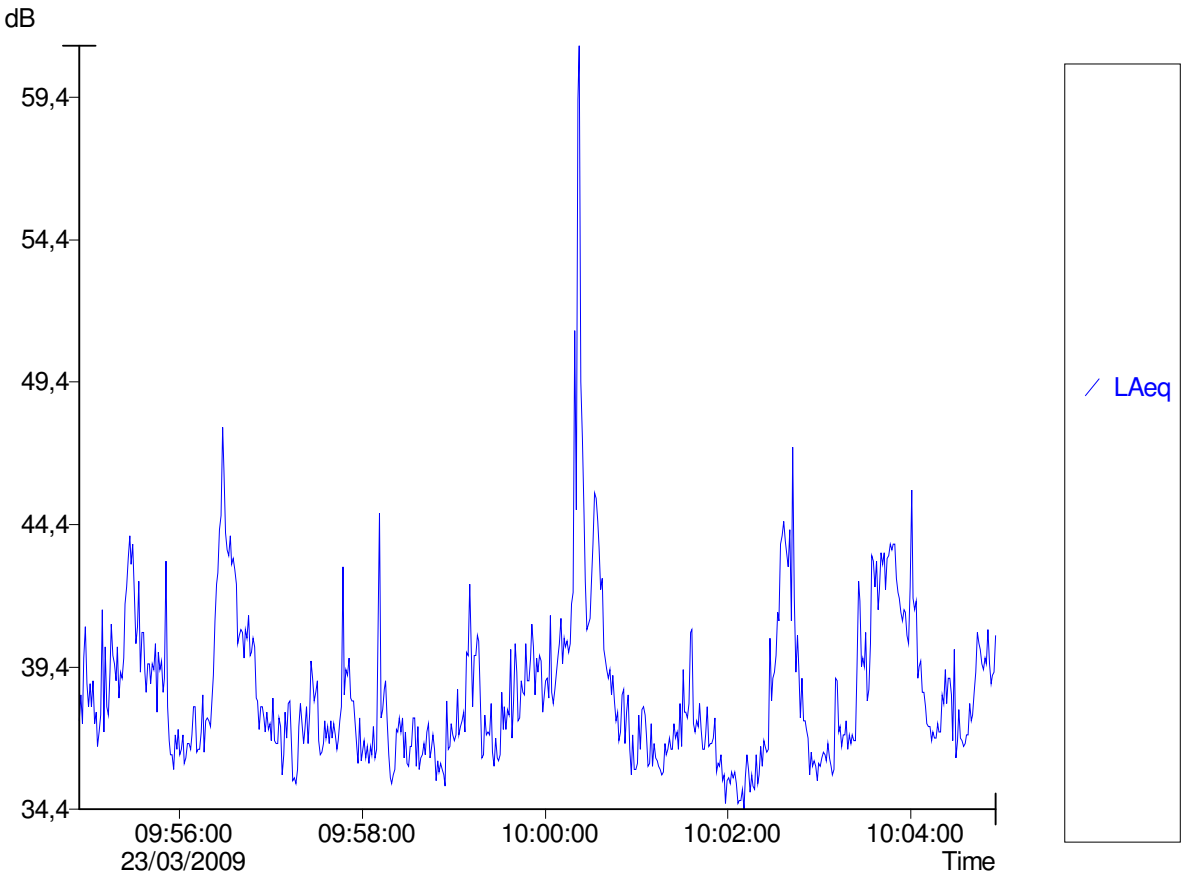


Ponto 18



X:\CRJ00079.DTA
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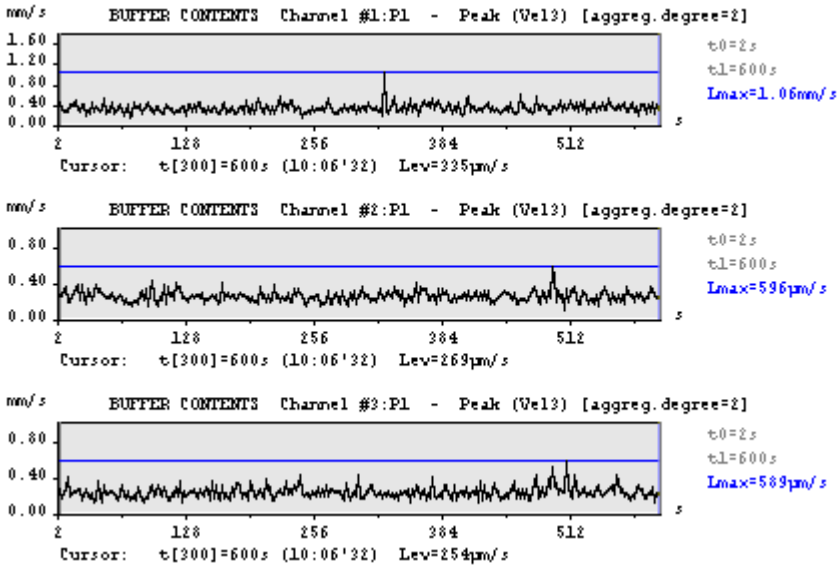
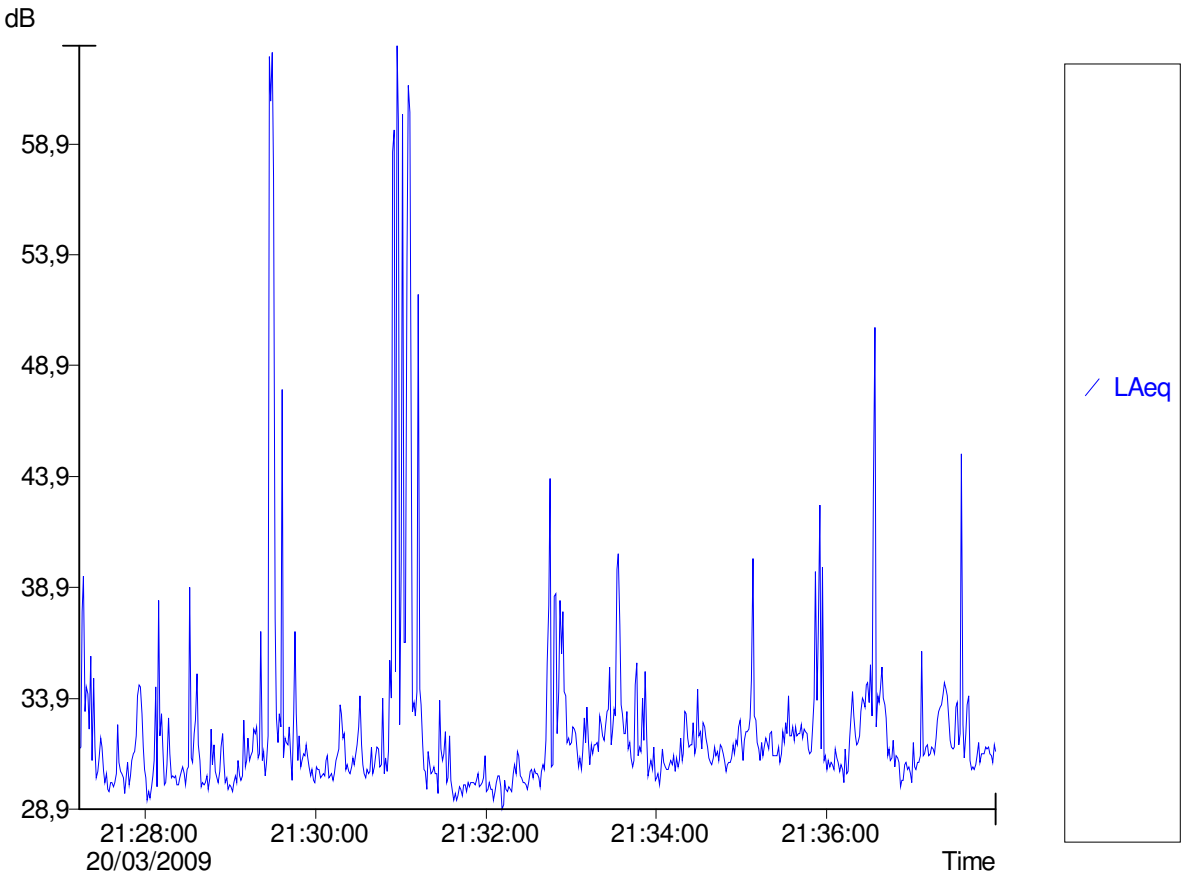


Ponto 03 A



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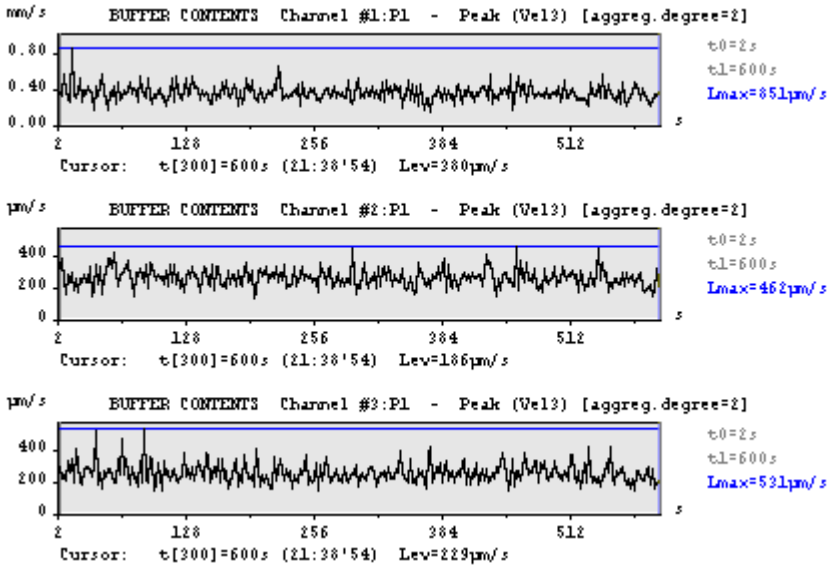
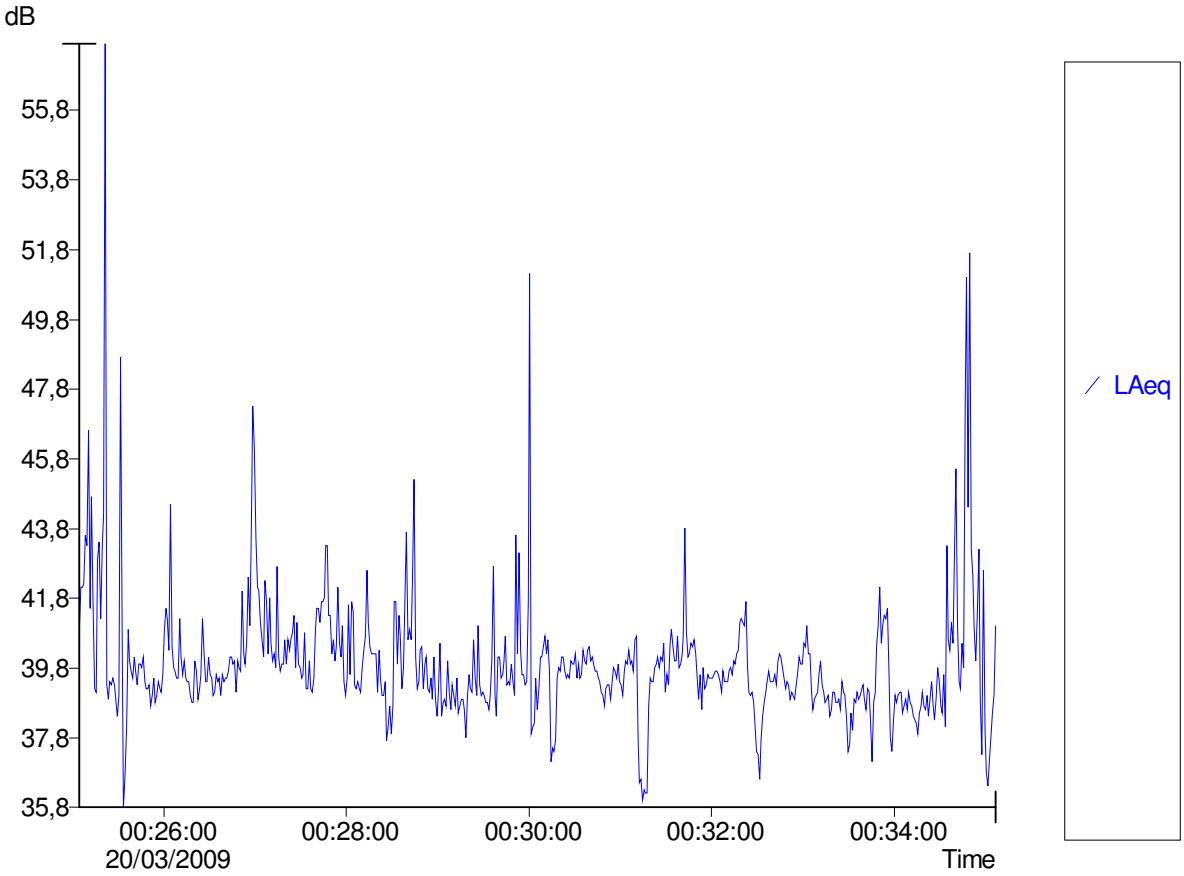
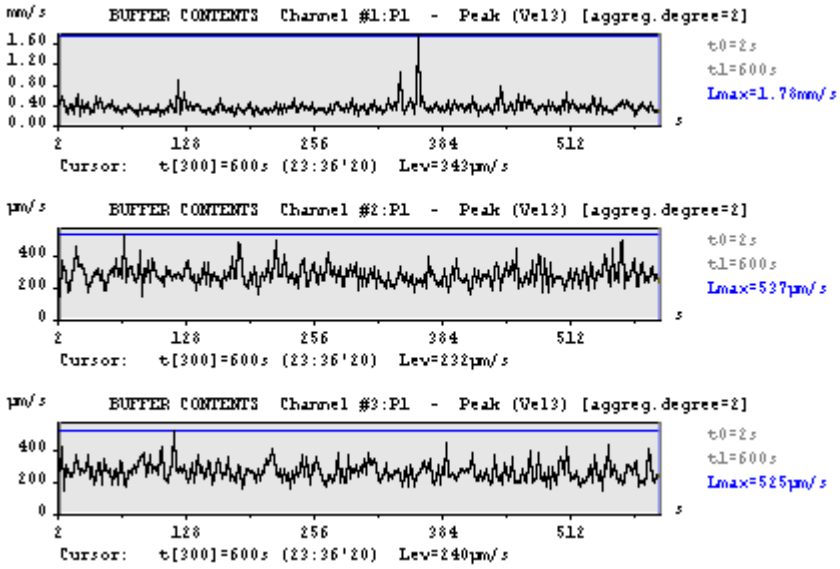


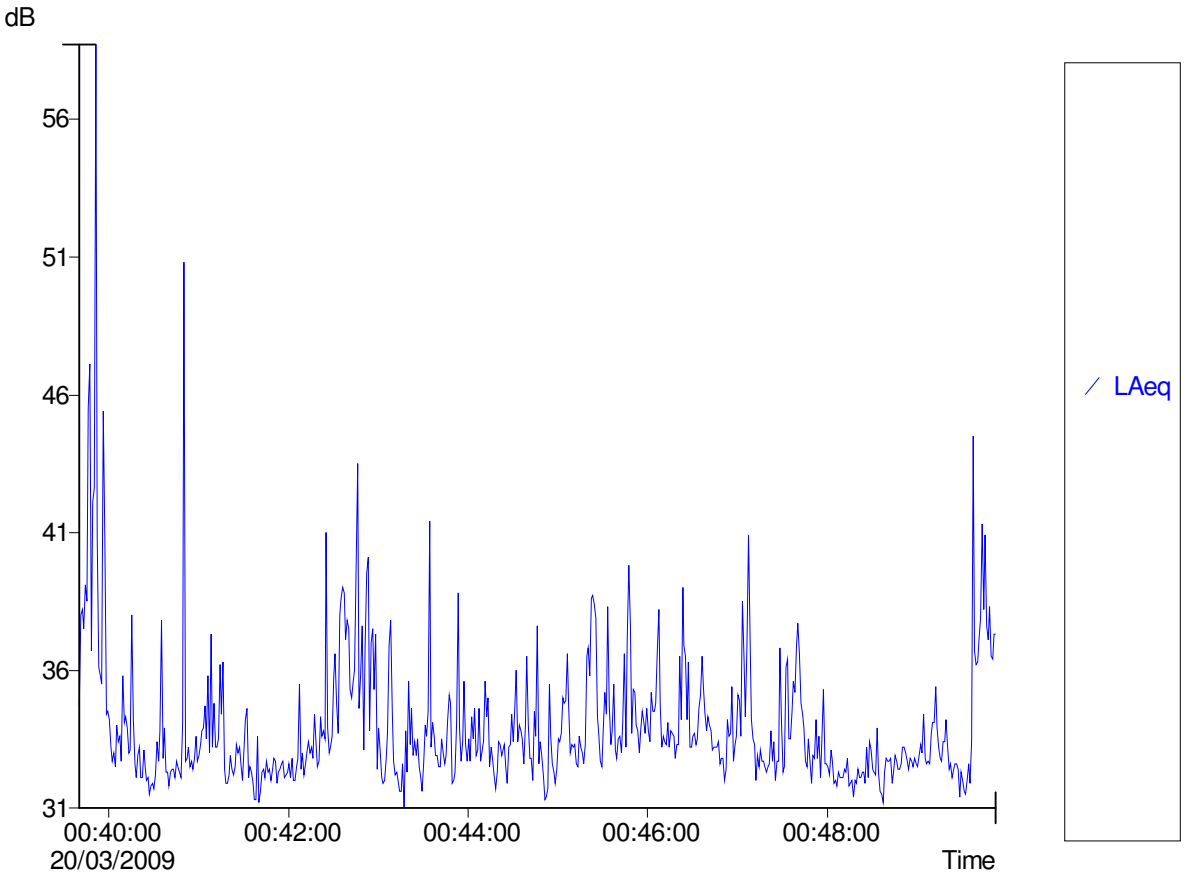
Ponto 04 A



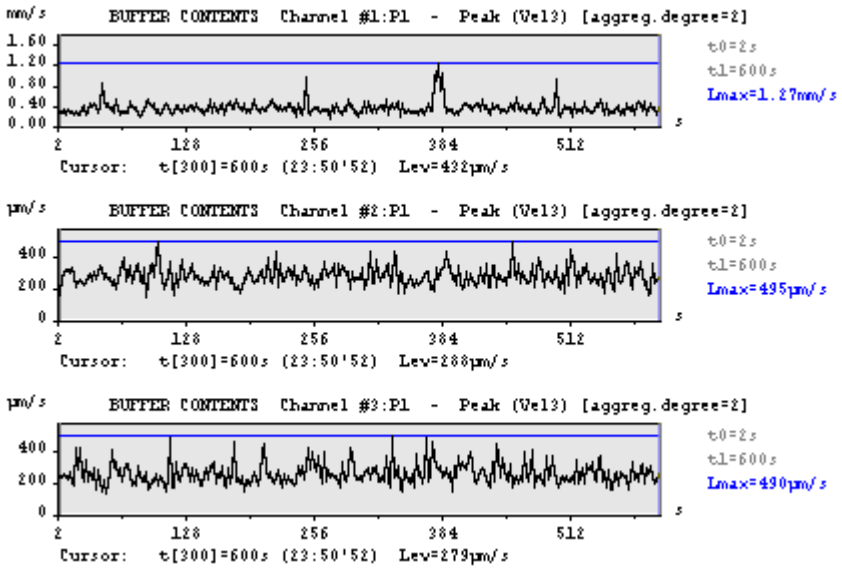
W:\CRJ00016.DTA
Overall profile duration = 00:10:03 (603 samples)



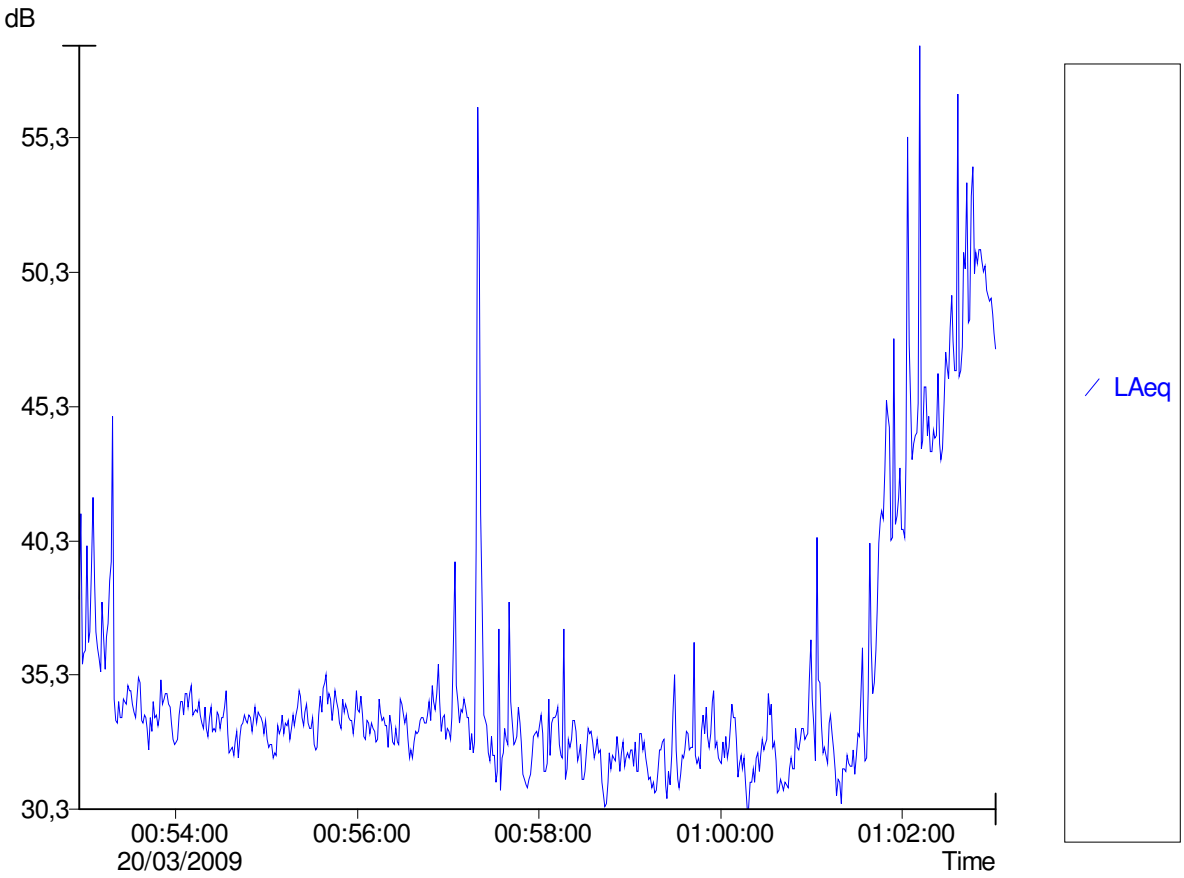
Ponto 04 B



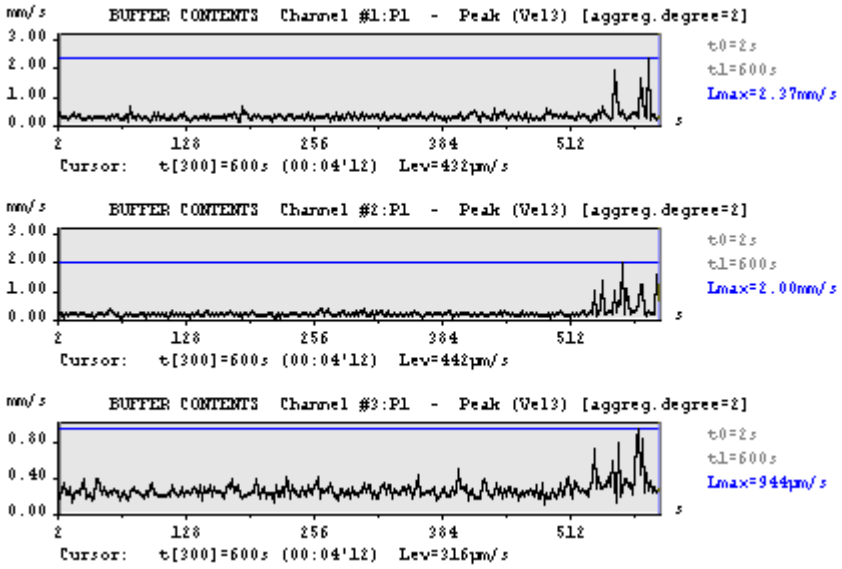
W:\CRJ00017.DTA
Overall profile duration = 00:10:13 (613 samples)



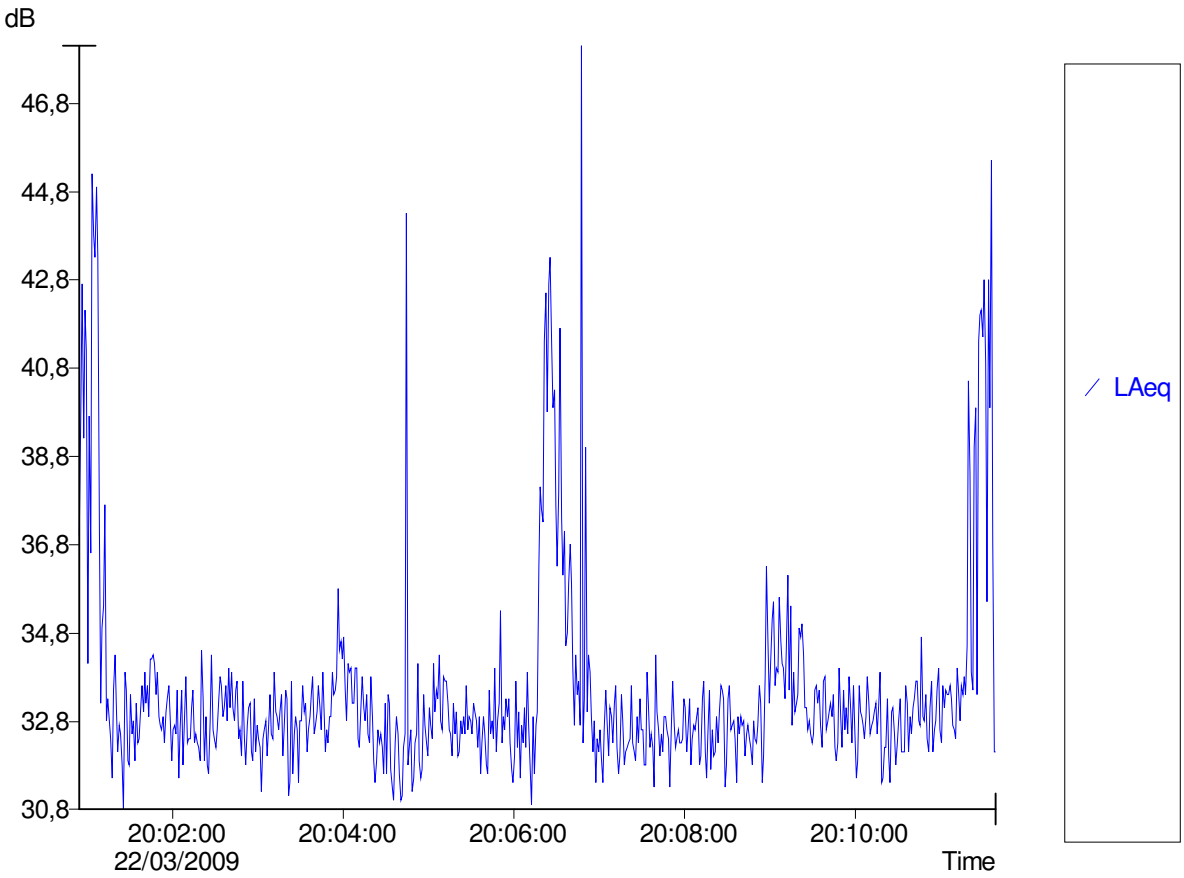
Ponto 04 C



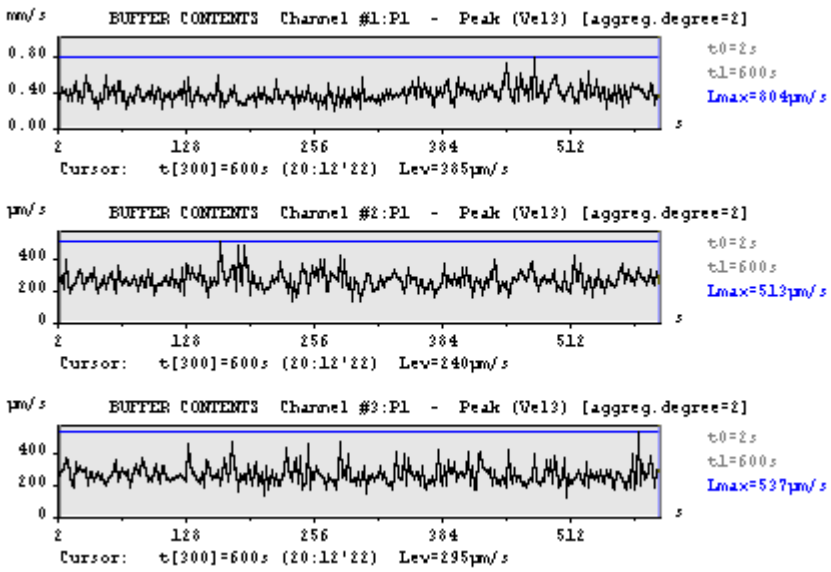
W:\CRJ00018.DTA
Overall profile duration = 00:10:06 (606 samples)



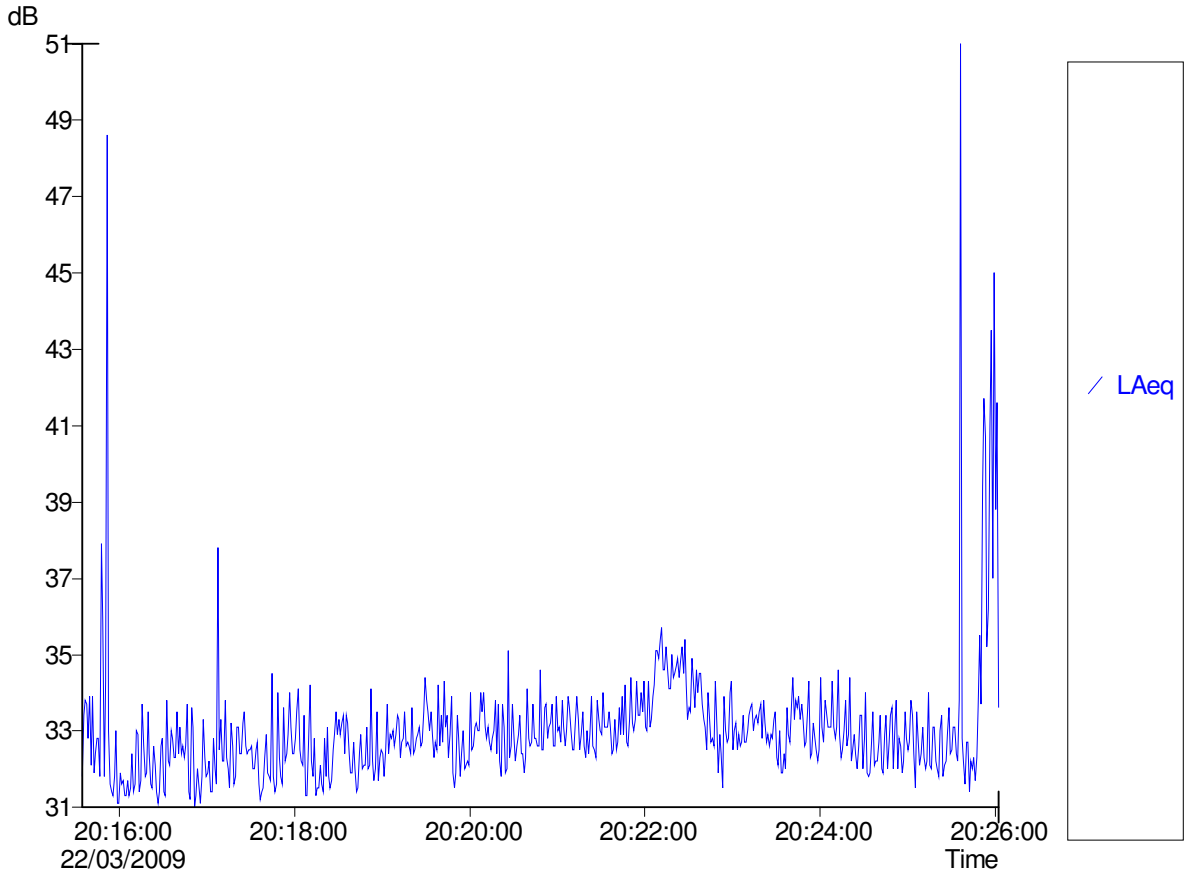
Ponto 05 A



W:\CRJ00066.DTA
Overall profile duration = 00:10:45 (645 samples)



Ponto 05 B



W:\CRJ00067.DTA
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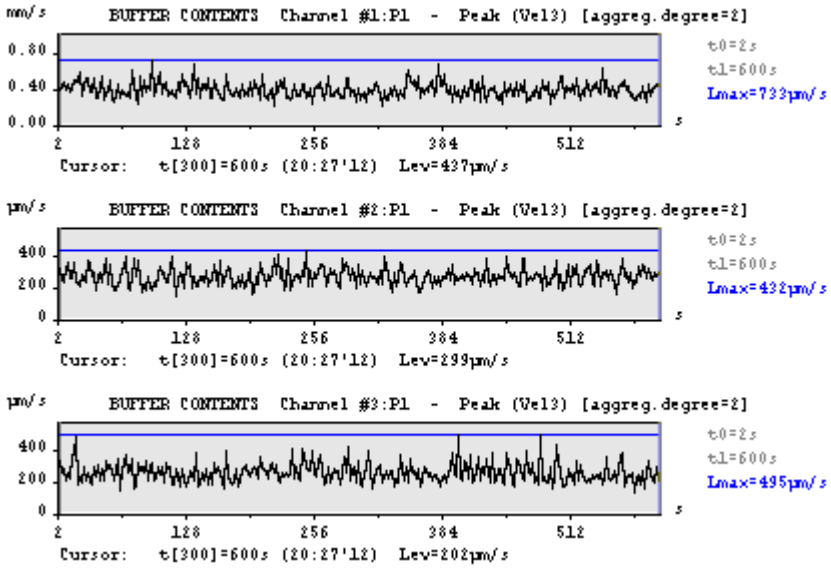
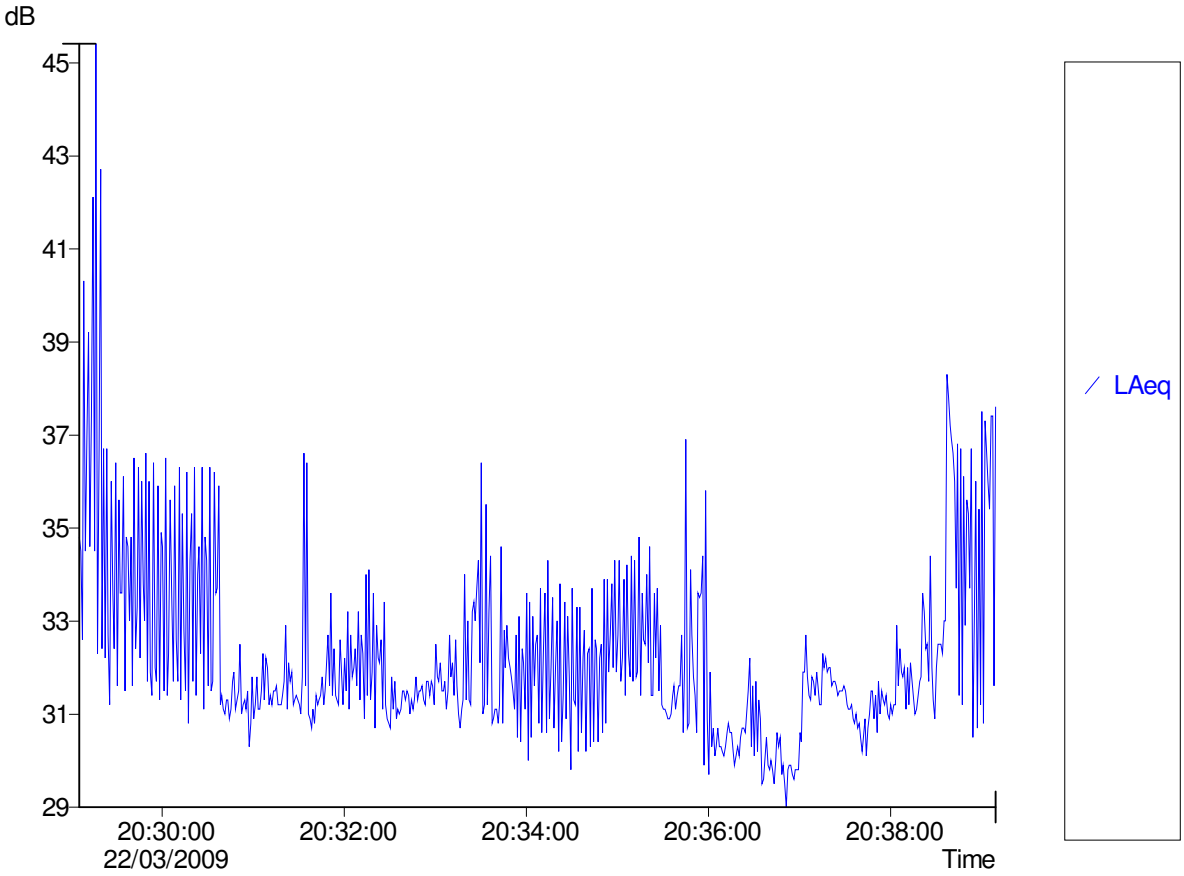


Ponto 05 C



W:\CRJ00068.DTA
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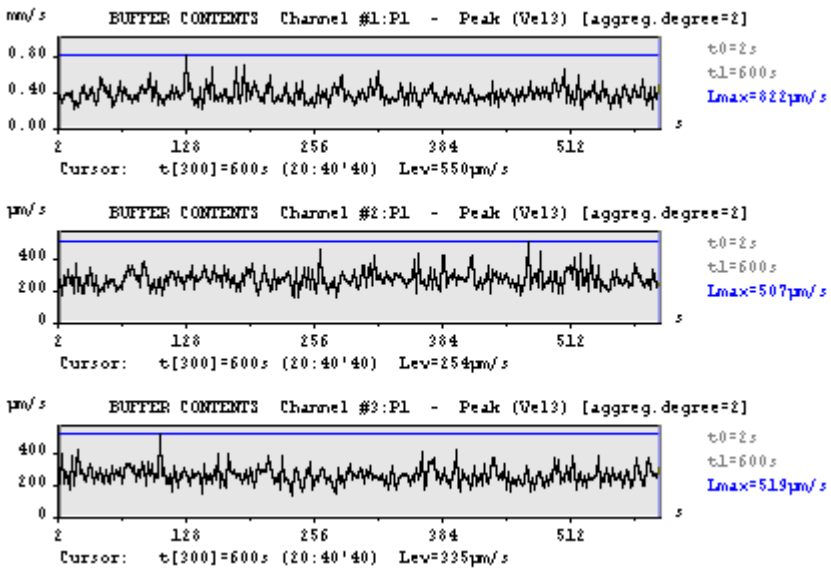
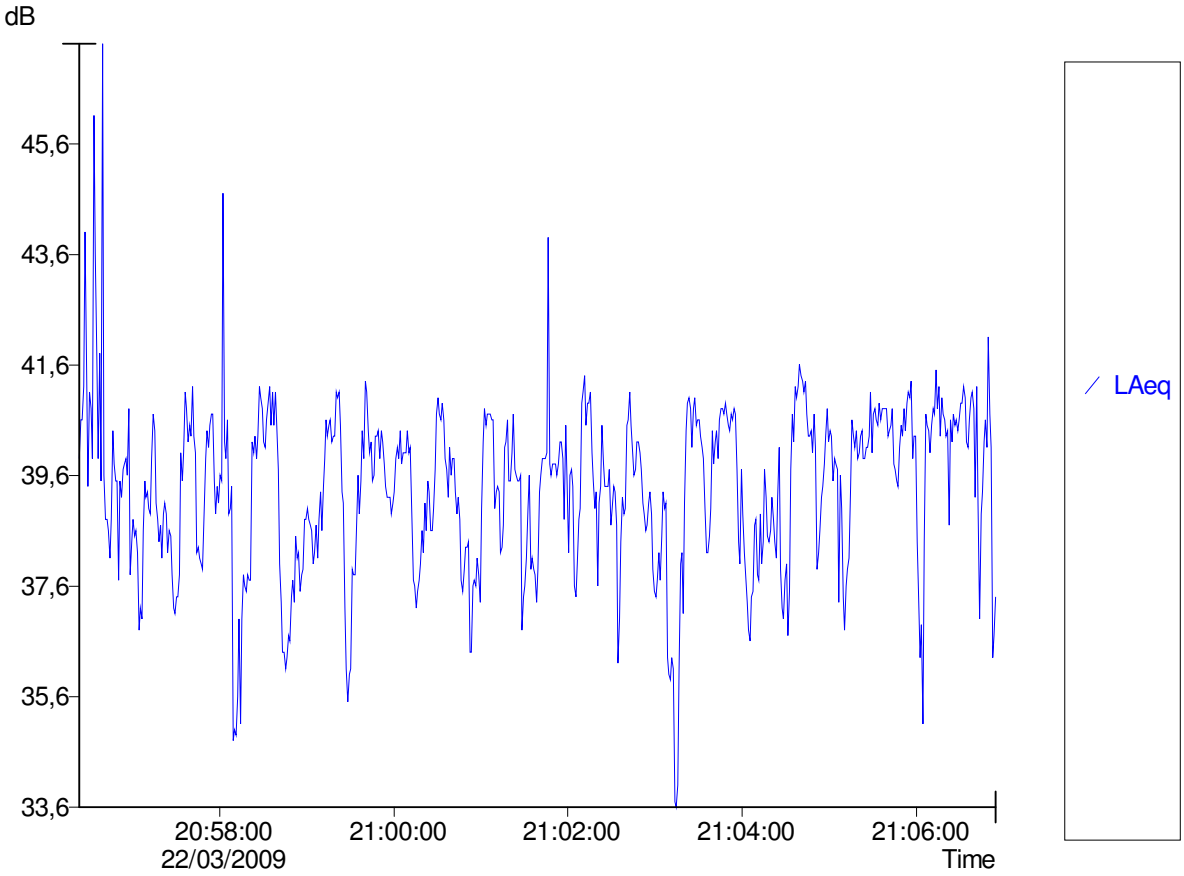
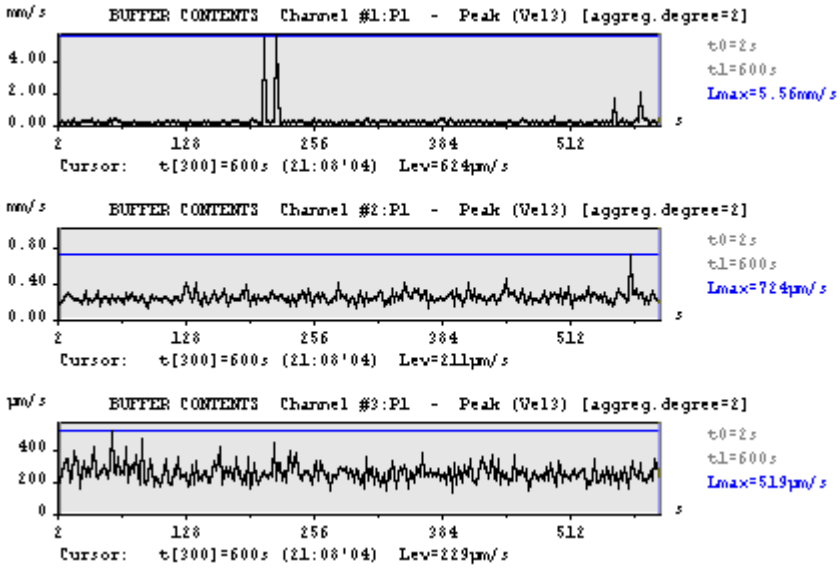


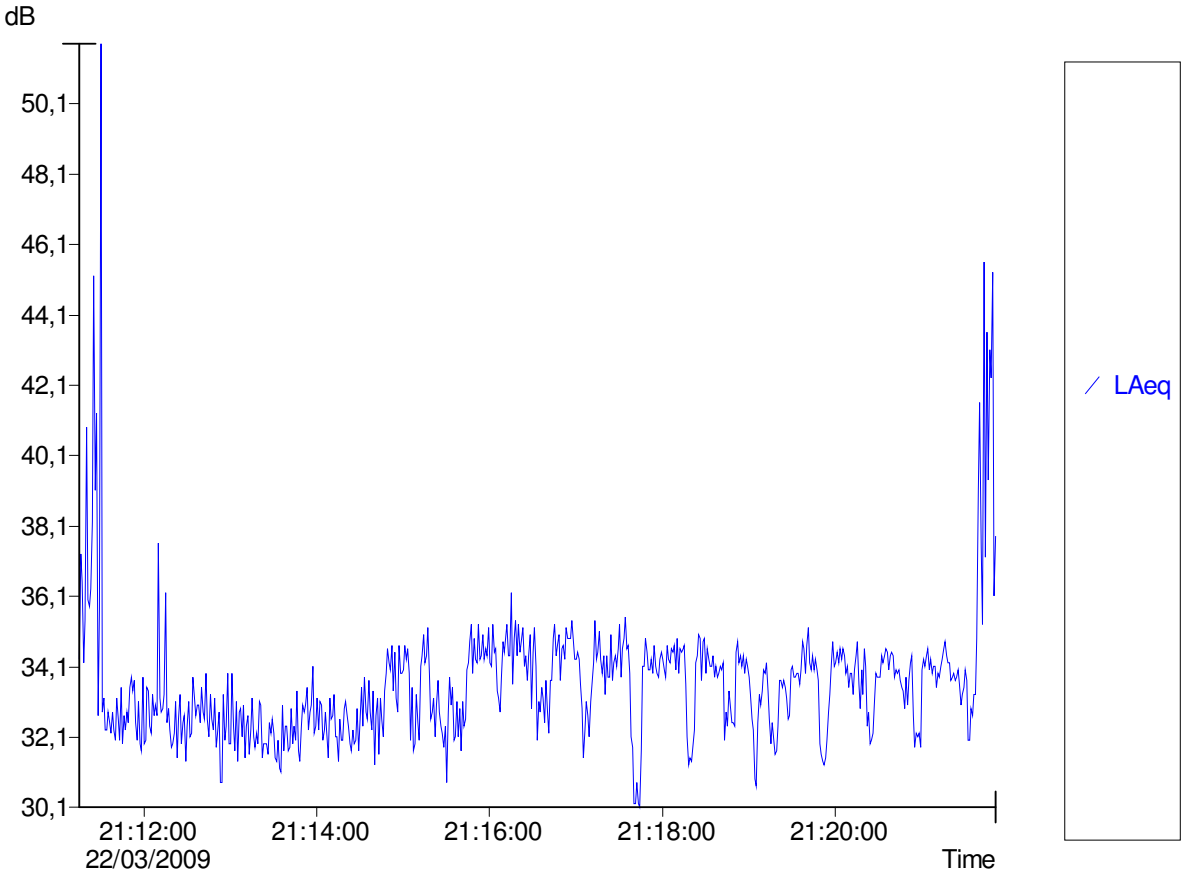
Ponto 06 A



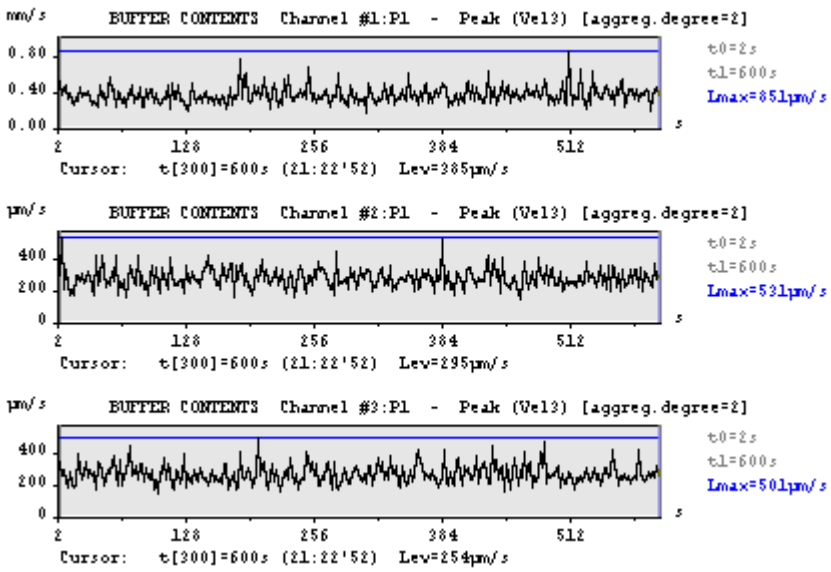
W:\CRJ00069.DTA
Overall profile duration = 00:10:32 (632 samples)



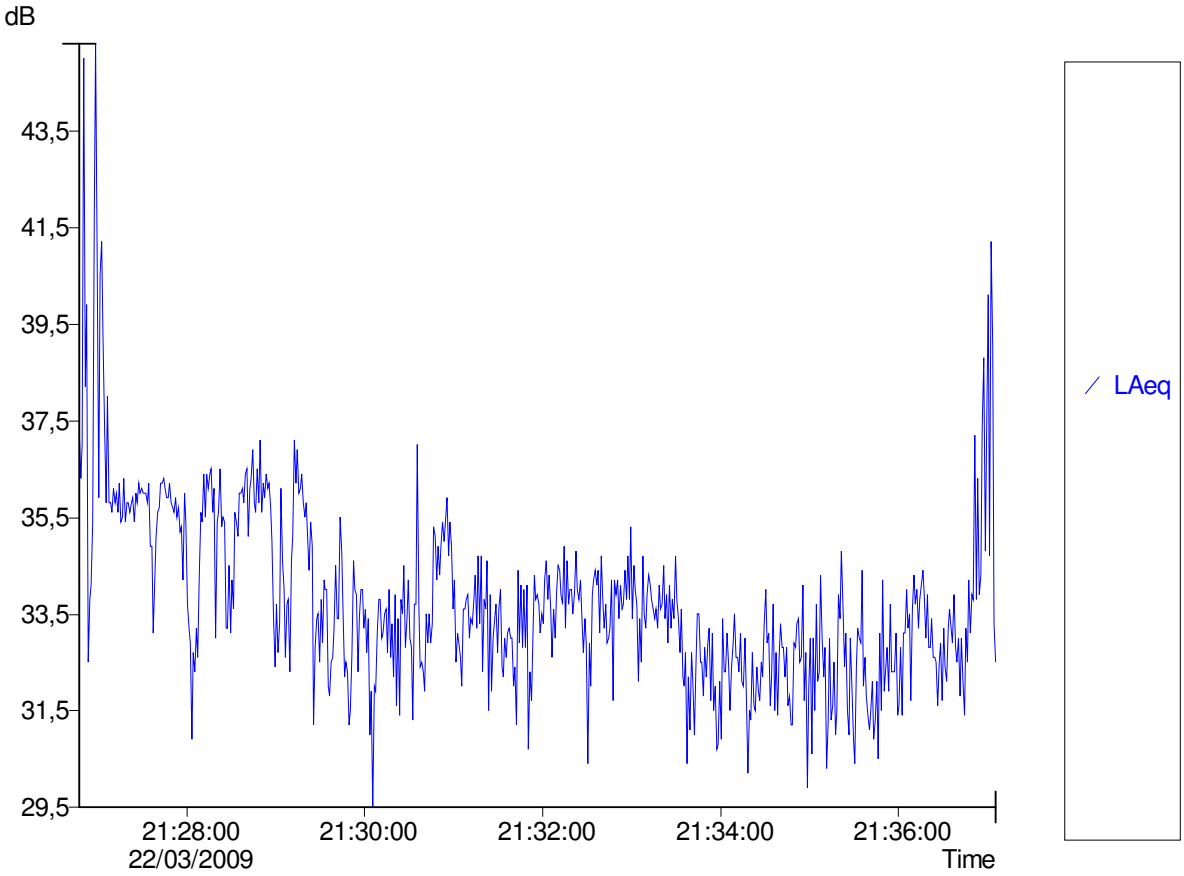
Ponto 06 B



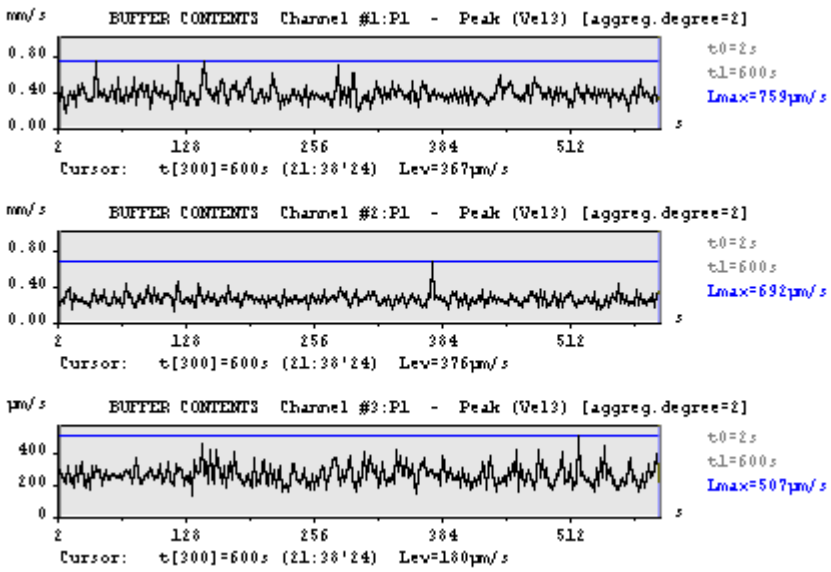
W:\CRJ00070.DTA
Overall profile duration = 00:10:37 (637 samples)



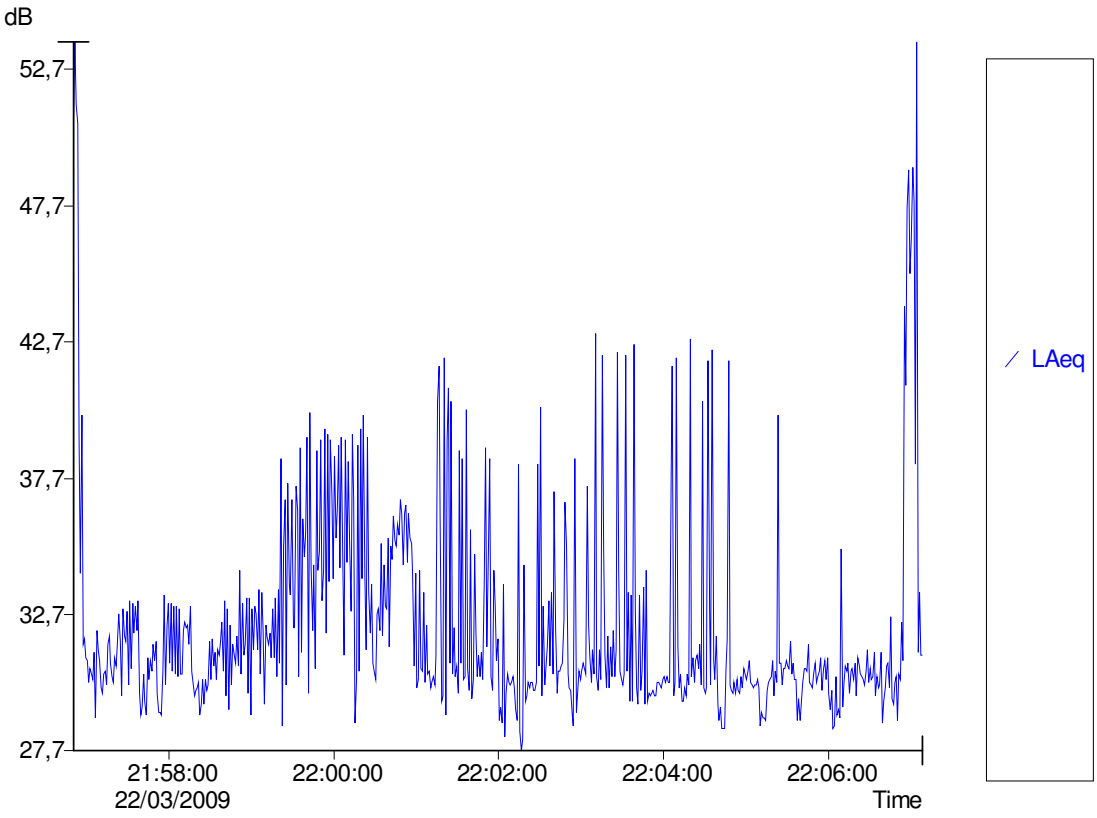
Ponto 06 C



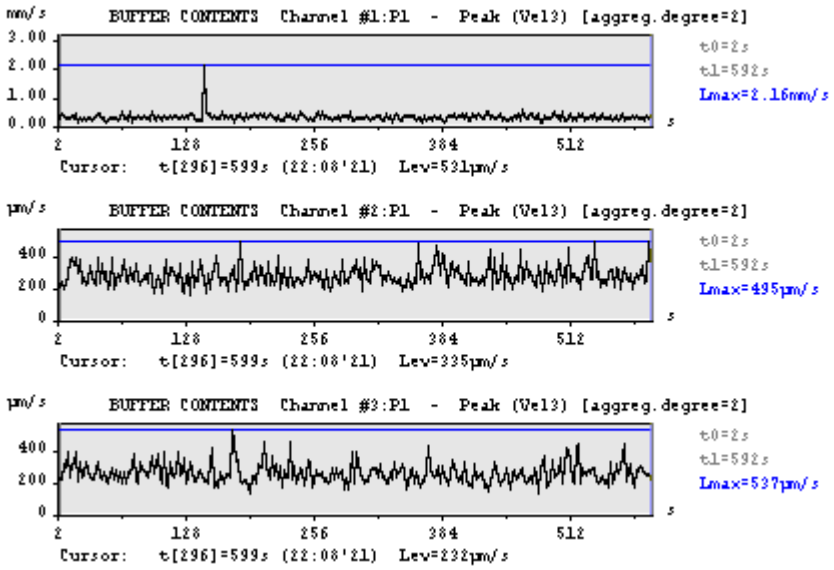
W:\CRJ00071.DTA
Overall profile duration = 00:10:19 (619 samples)



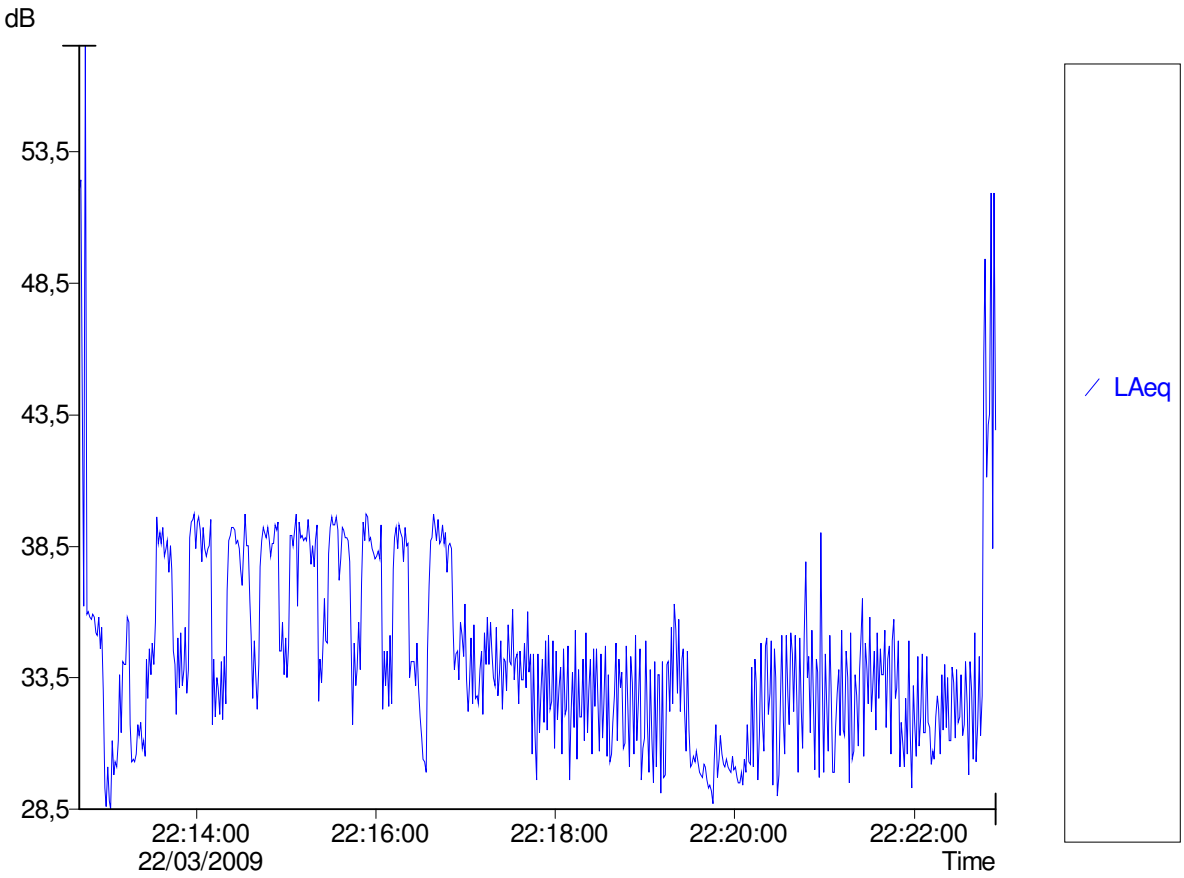
Ponto 07 A



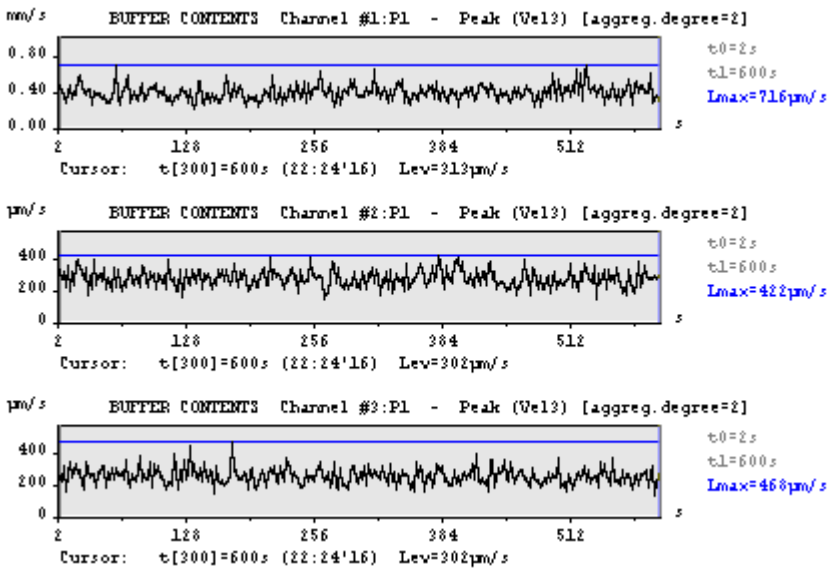
V:\CRJ00072.DTA
Overall profile duration = 00:10:19 (619 samples)



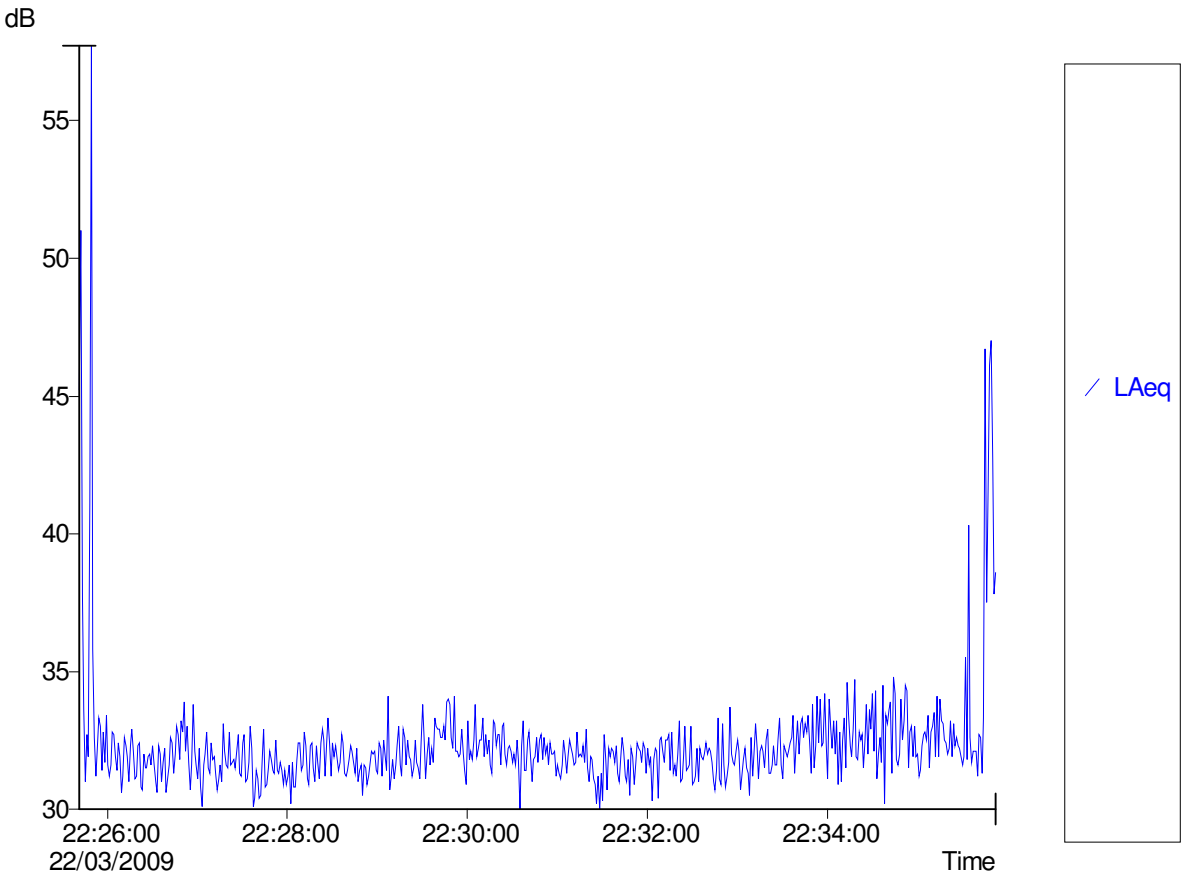
Ponto 07 B



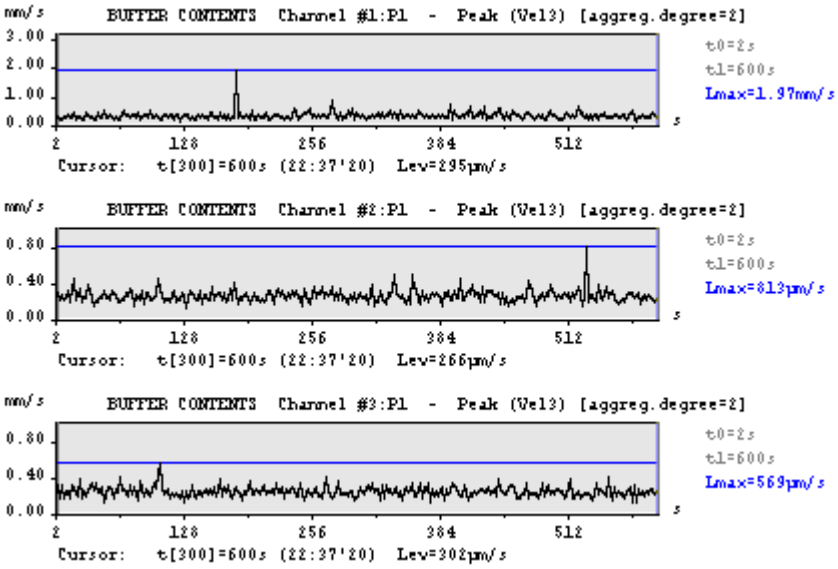
V:\CRJ00073.DTA
Overall profile duration = 00:10:14 (614 samples)



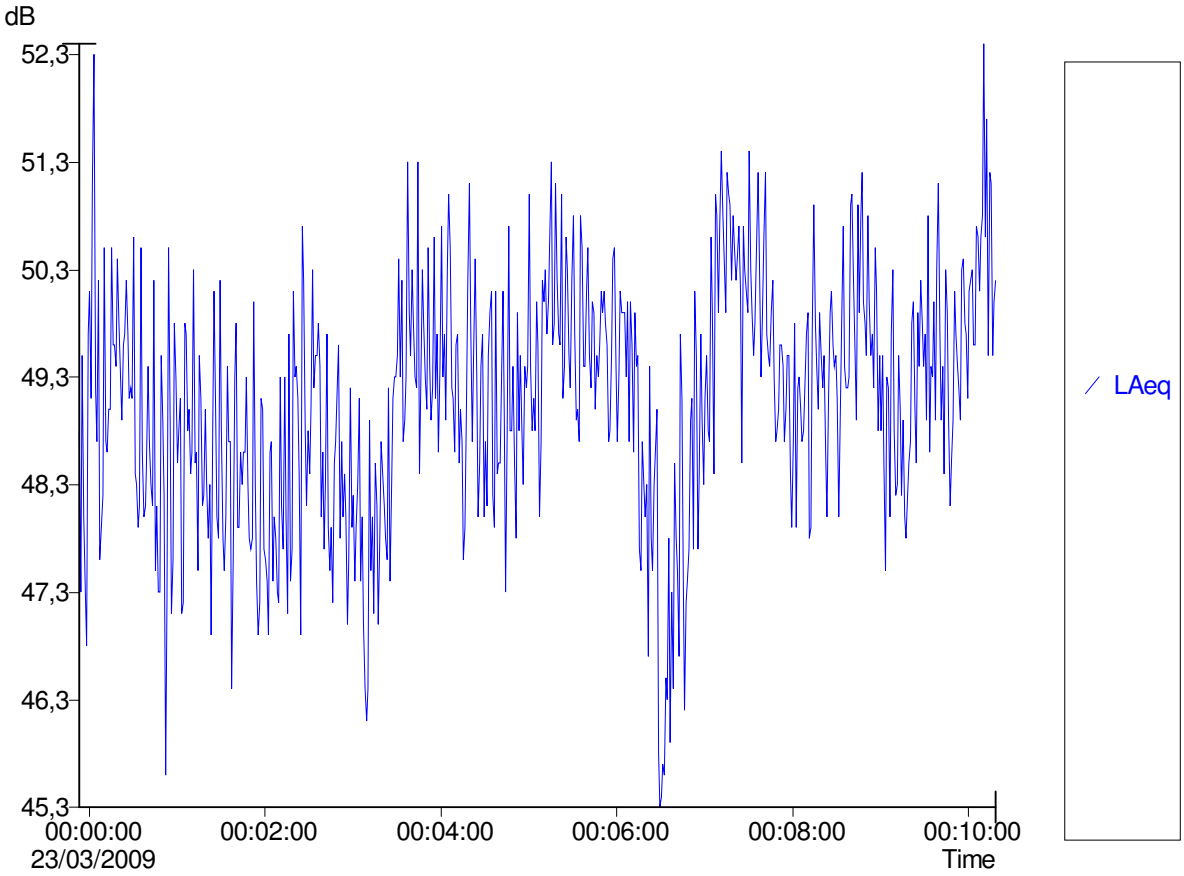
Ponto 07 C



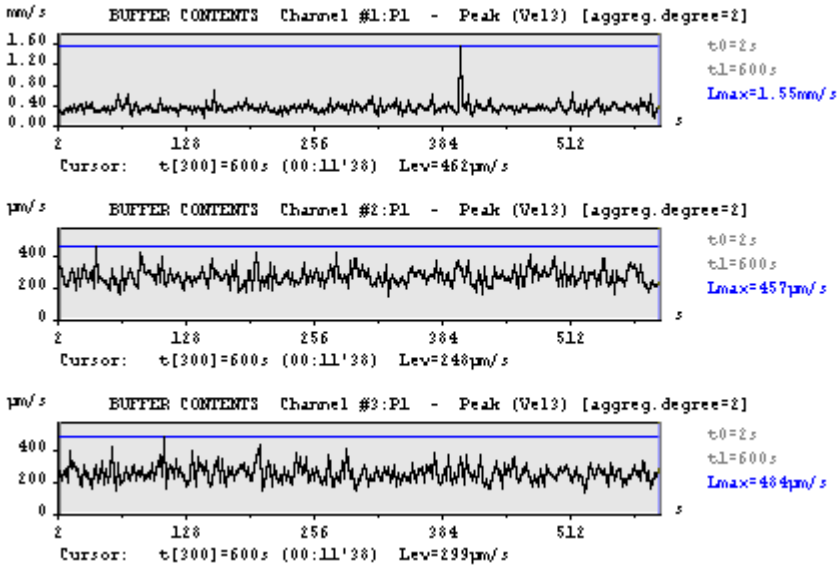
V:\CRJ00074.DTA
Overall profile duration = 00:10:12 (612 samples)



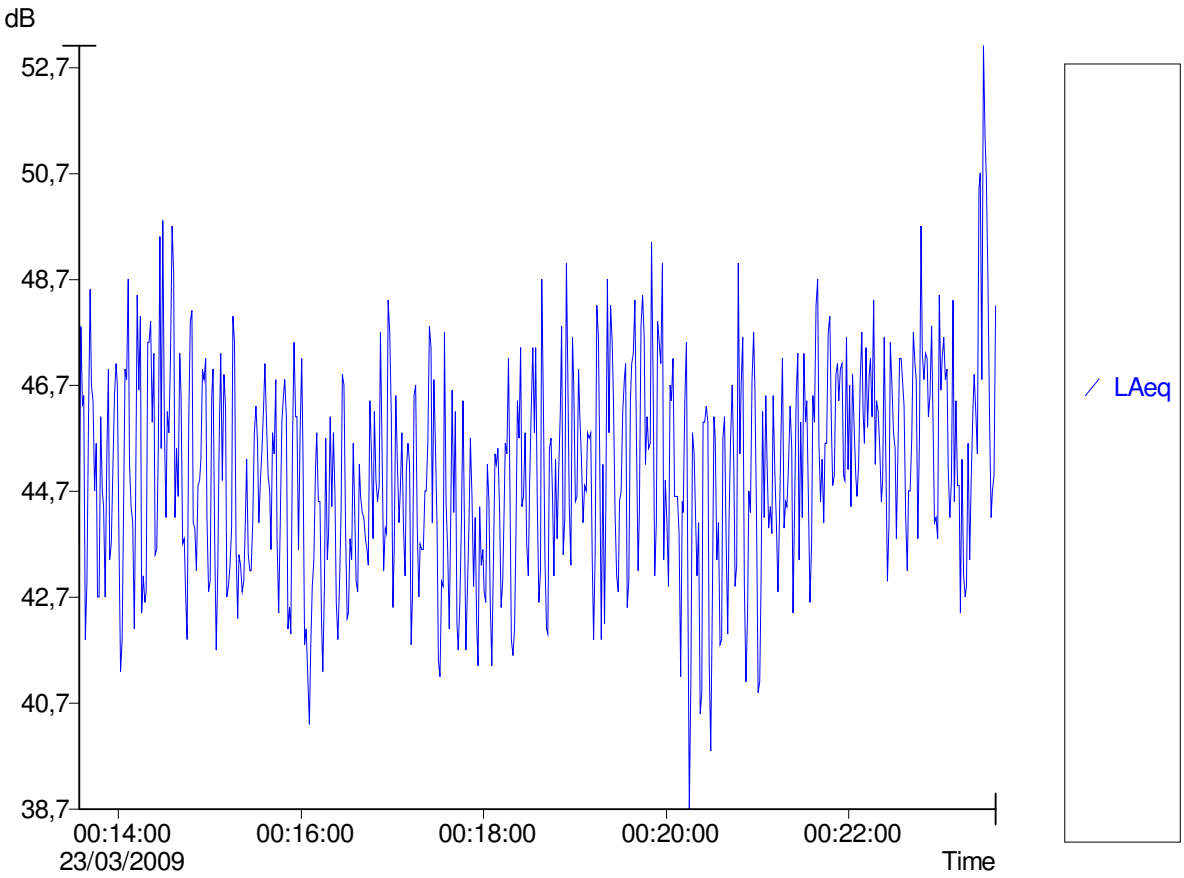
Ponto 09 A 2



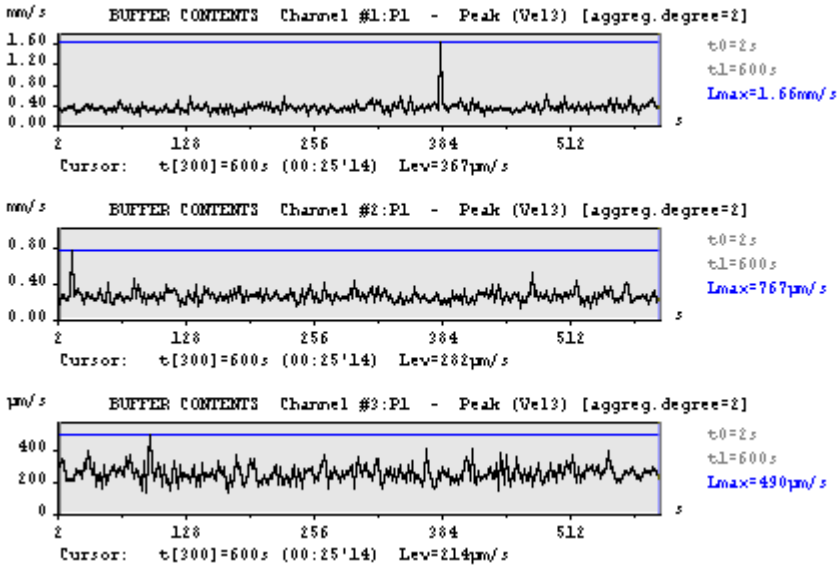
U:\CRJ00077.DTA
Overall profile duration = 00:10:26 (626 samples)



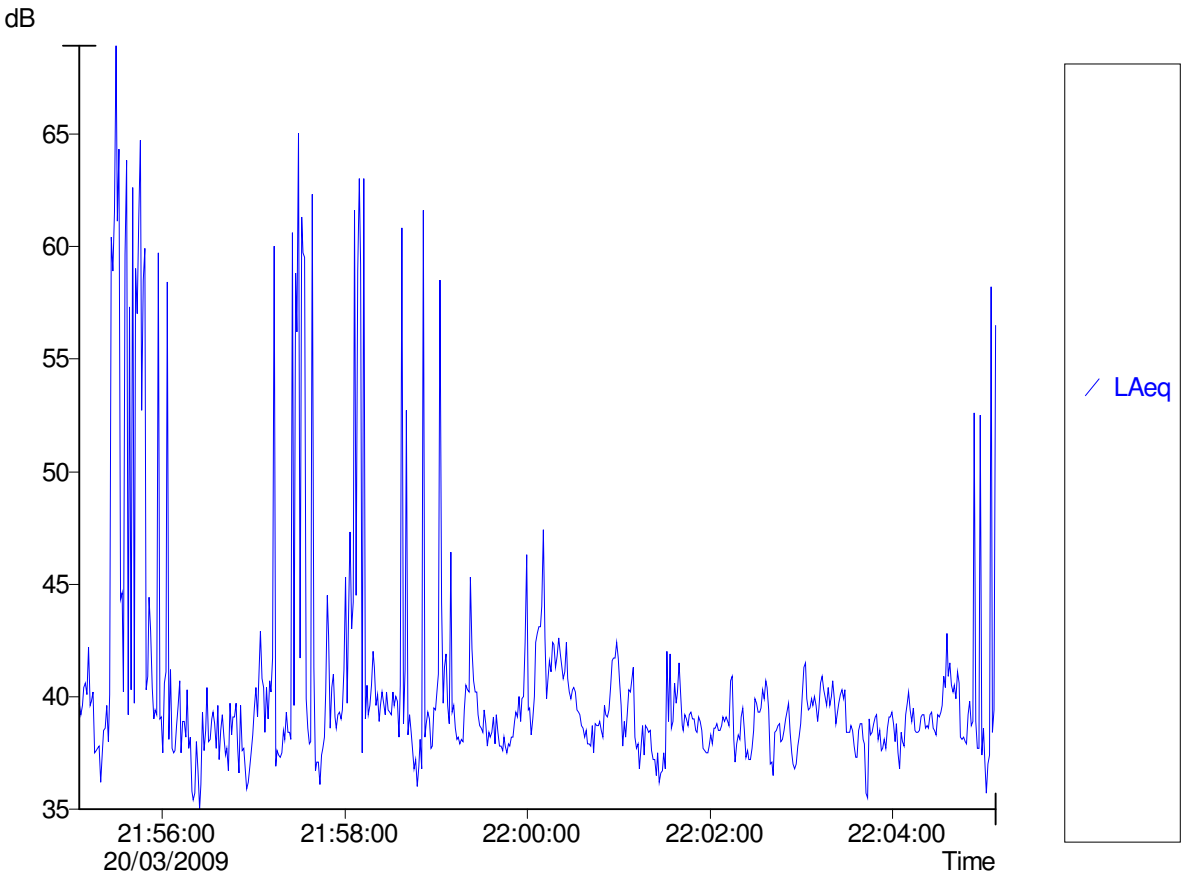
Ponto 09 B 2



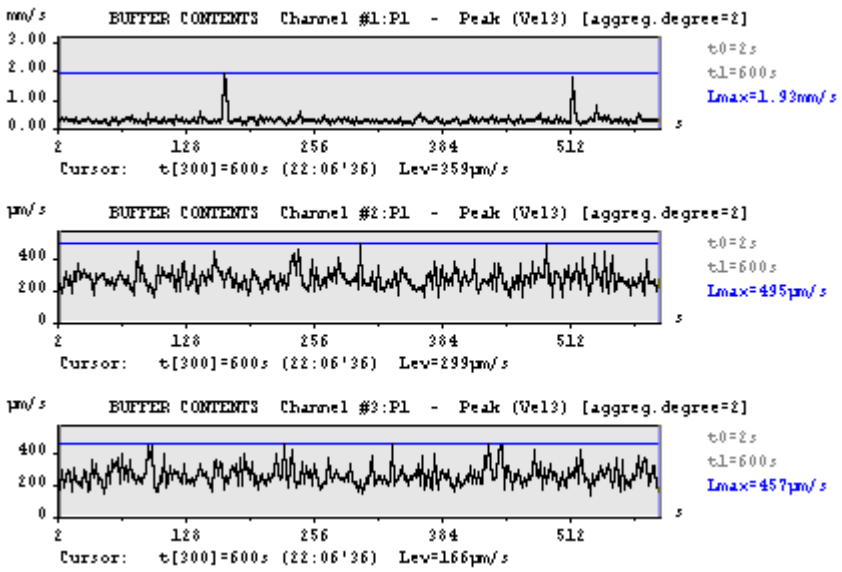
U:\CRJ00078.DTA
Overall profile duration = 00:10:03 (603 samples)



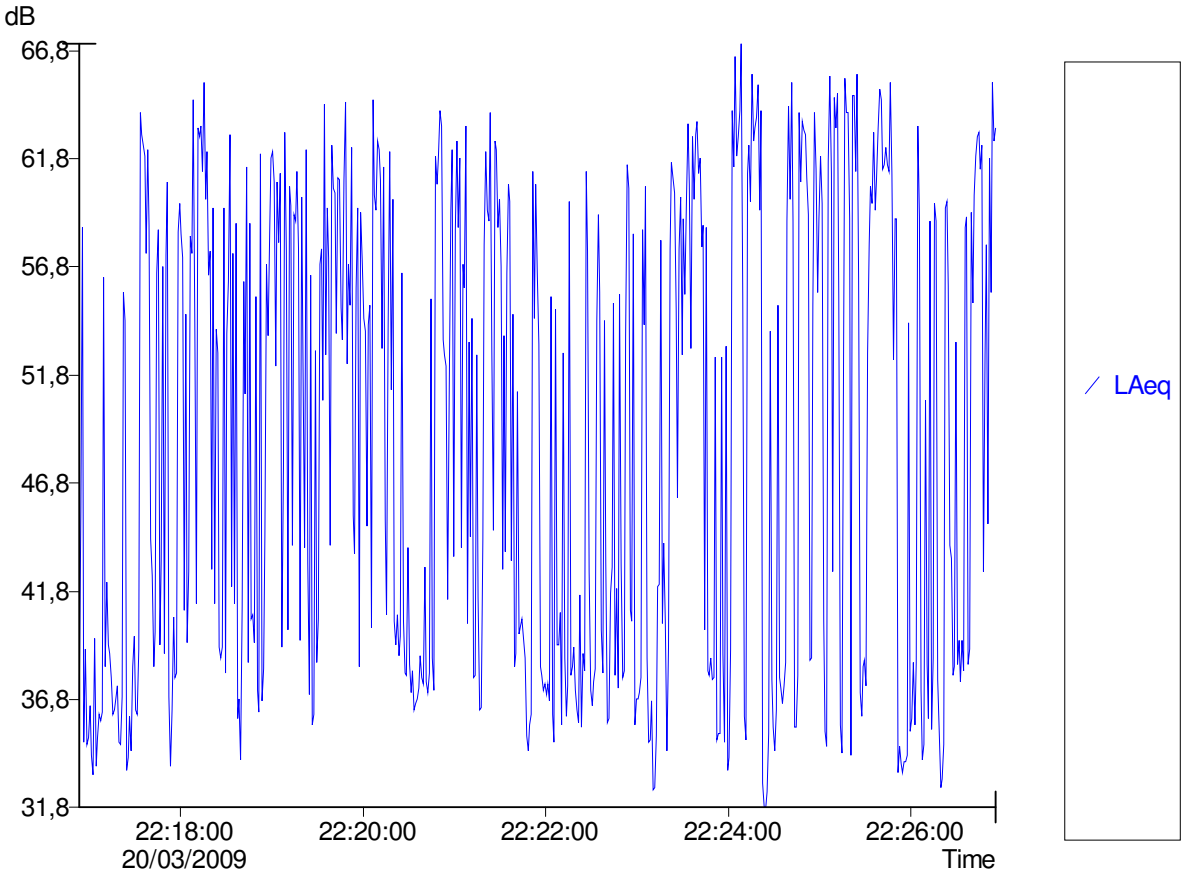
Ponto 10 A



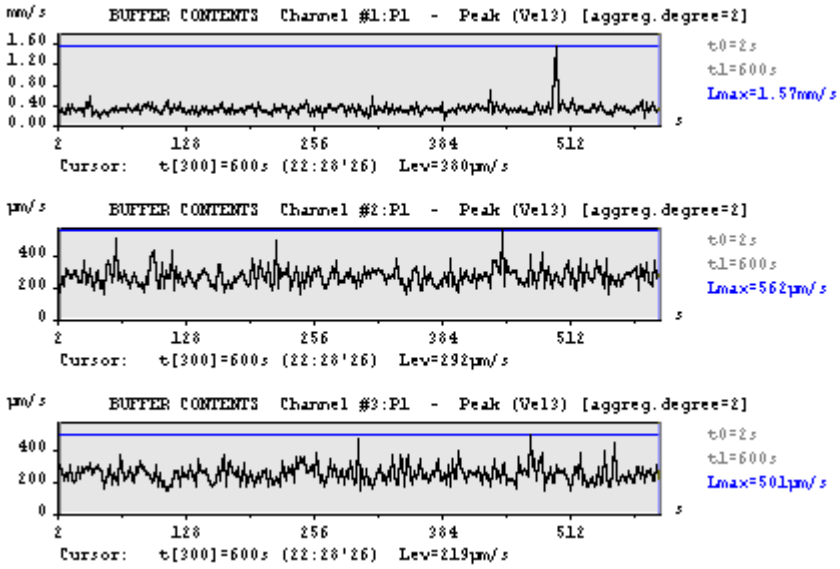
U:\CRJ00035.DTA
Overall profile duration = 00:10:03 (603 samples)



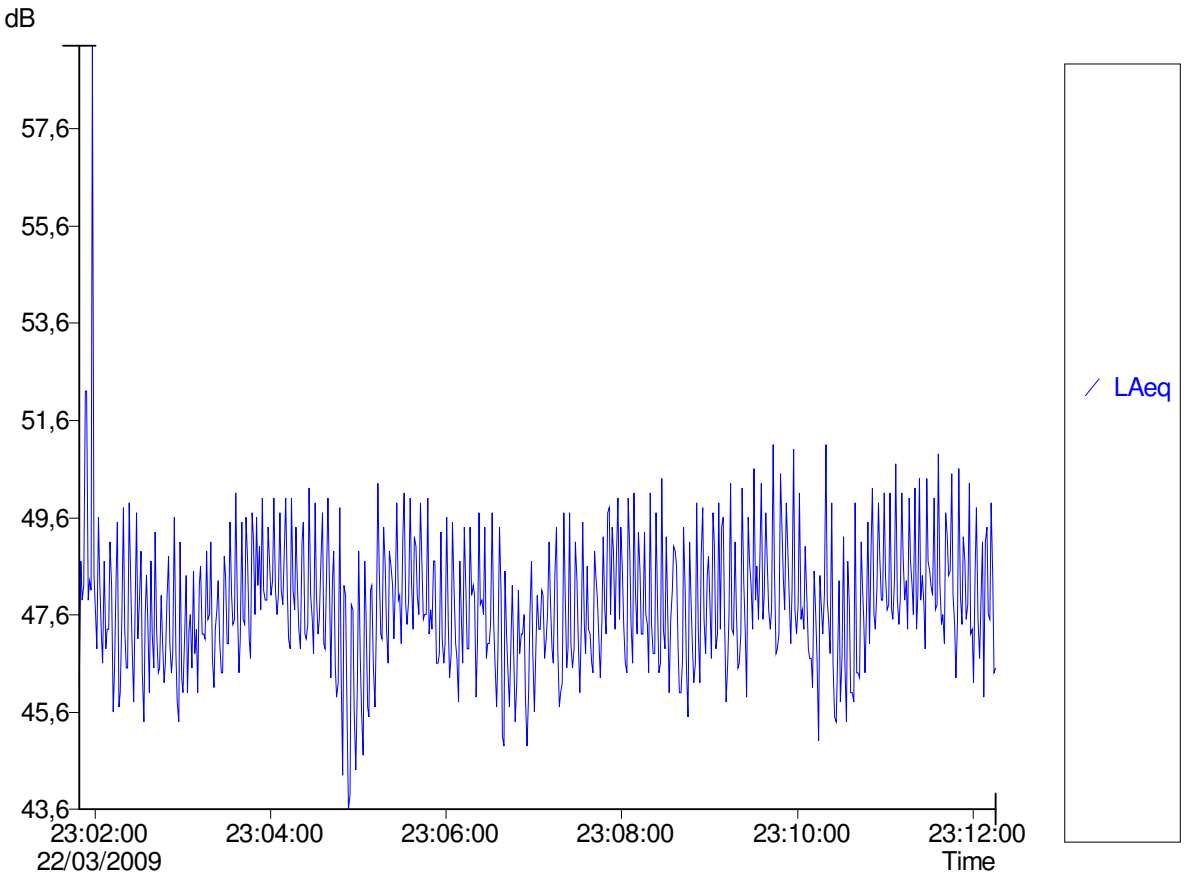
Ponto 10 B



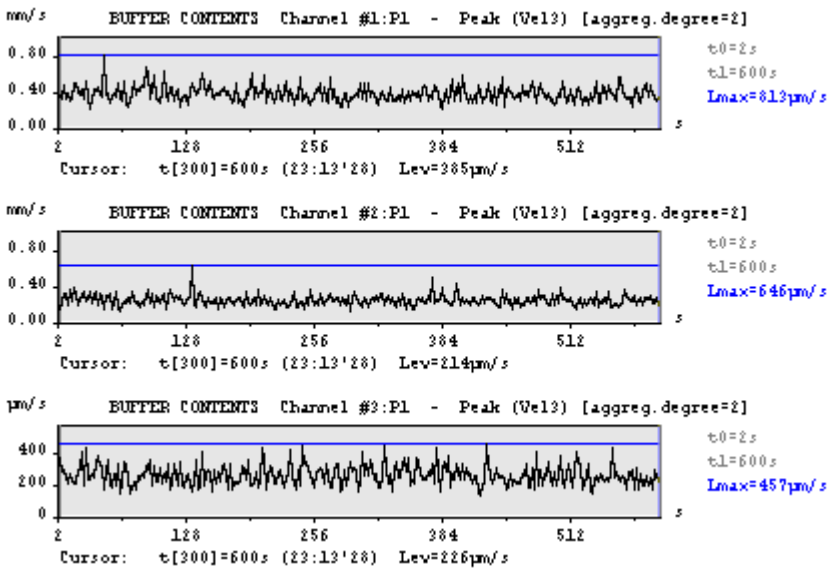
U:\CRJ00036.DTA
Overall profile duration = 00:10:03 (603 samples)



Ponto 18



U:\CRJ00075.DTA
Overall profile duration = 00:10:27 (627 samples)



II – CERTIFICADO DE CALIBRAÇÃO

TOTAL SAFETY

CALILAB - LABORATÓRIO DE ELETROACÚSTICA
RBC - REDE BRASILEIRA
DE CALIBRAÇÃO

Calibração NBR ISO/IEC 17025
CAL 0307

CERTIFICADO DE CALIBRAÇÃO Nº: RBC2-6812-652

1- CLIENTE/ EQUIPAMENTO

Data da calibração: 26/08/08
Processo: 8564

Nome: Segma Engenharia de Segurança do Trabalho e Meio Ambiente Ltda.
Endereço: Rua David Rabelo, 210 - Belo Horizionte - MG - Cep: 30820-260

Equipamento: Calibrador de Nível Sonoro
Fabricante: CEL **Modelo:** 282
Número de Série: 2/11718397 **Classe:** 2
Identificação: ---

2- PADRÕES E INSTRUMENTAÇÃO

Descrição	Código	Certificado	Emitente	Validade
Pistonphone	P101	DIMCI 1061/2008	INMETRO	11/07/2009
Multímetro Digital	P105	RBC2-7/0050	RBC	10/04/2009

Microfone: 1/2 polegada	P114	Barômetro Digital	P106
Pré-amplificador	P162	Higrômetro	P107
Fonte de Microfone	P104	Termômetro	P108
Multímetro Digital	P105		

3- INFORMAÇÕES DA CALIBRAÇÃO

Procedimento: IT-502: Método de calibração por comparação de acordo com IEC 60942:1988

Condições ambientais: Temperatura: 23,6 ºC, Umidade Relativa: 52 %, Pressão Atmosférica: 93,1 kPa.

Observações gerais:

1- Os resultados apresentados referem-se à média dos valores encontrados.

2- A Incerteza Expandida de Medição relatada é declarada como a incerteza padrão de medição multiplicada pelo fator de abrangência k, para uma probabilidade de abrangência de aproximadamente 95%.

3- O presente certificado de calibração é válido apenas para o calibrador de nível sonoro acima descrito, não sendo extensivo a quaisquer outros, ainda que similares.

4- Este certificado de calibração somente pode ser reproduzido completo. Reproduções para fins de divulgação em material publicitário, bem como reproduções parciais, requerem autorização escrita do laboratório emitente. Nenhuma reprodução poderá ser usada de maneira enganosa.

5- O Calibrador de Nível Sonoro sob teste tem correções de fornecidas pelo fabricante [pressão, volume]. As correções foram consideradas de maneira a apresentar os resultados, preferencialmente nas condições de referência.

Cgcre/Inmetro is Signatory of the ILAC Mutual Recognition Arrangement. Cgcre/Inmetro is Signatory of a Bilateral Mutual Agreement with EA. Cgcre/Inmetro is signatory of the IAAC Mutual Recognition Arrangement.

Este certificado atende aos requisitos de acreditação pela Cgcre/Inmetro que avaliou a competência do laboratório e comprovou a sua rastreabilidade a padrões nacionais de medida (ou ao Sistema Internacional de Unidades – SI).

R. Gal. Humberto de A. C. Branco, 310 – São Caetano do Sul – SP – CEP 09560-380 – Tel: (11) 4220-2600 / FAX: (11) 4220-2555

CALILAB - LABORATÓRIO DE ELETROACÚSTICA
Laboratório de Calibração Acreditado pela Cgcre/INMETRO
de acordo com a ABNT NBR ISO/IEC 17025 sob o Nº 307.

CERTIFICADO DE CALIBRAÇÃO Nº: RBC2-6812-652

4- RESULTADOS E DECLARAÇÃO DAS INCERTEZAS

Valor Nominal	Valor Medido	Tolerância	Incerteza	Unidade
114	114,0	0,5	0,2	dB
1000 (114 dB)	1000,1	40,0	0,1	Hz

Ajustes ou reparos (não fazem parte do escopo de acreditação do laboratório):

Os resultados desta calibração foram obtidos após ajuste do Calibrador de Nível Sonoro. Os valores anteriores ao ajuste eram: [114,8] dB e [997,2] Hz, correspondentes aos valores nominais: [114] dB e [1000] Hz, respectivamente.

Opiniões e Interpretações (não fazem parte do escopo de acreditação do laboratório):

(campo vazio)

Reinaldo Martins
Signatário Autorizado

Data da emissão: 28/08/2008

R. Gal. Humberto de A. C. Branco, 310 – São Caetano do Sul – SP – CEP 09560-380 – Tel: (11) 4220-2600 / FAX: (11) 4220-2555

SVANTEK ISO9001 certified

FACTORY CALIBRATION DATA OF THE SVAN 948 *No. 9368*

SOUND LEVEL METER

1. CALIBRATION (electrical)

LEVEL METER; Filter: LIN; Input signal =114.0dB, f_{sin}=1kHz

	Range 105dB		Range 130dB	
	Indication [dB]	Error [dB]	Indication [dB]	Error [dB]
Channel 1	113.98	-0.02	114.02	0.02
Channel 2	113.97	-0.03	114.02	0.02
Channel 3	113.98	-0.02	114.02	0.02
Channel 4	113.97	-0.03	114.02	0.02

2. CALIBRATION* (acoustical)

LEVEL METER; Range: 130 dB; Reference frequency: 1000Hz; Calibration factors: -0.4dB, -0.4dB, -0.4dB, -0.4dB

Filter	LIN		A		C	
	Indication [dB]	Error [dB]	Indication [dB]	Error [dB]	Indication [dB]	Error [dB]
Channel 1	113.9	0.1	113.9	0.1	113.9	0.1
Channel 2	113.9	0.1	113.9	0.1	113.9	0.1
Channel 3	113.9	0.1	113.9	0.1	113.9	0.1
Channel 4	113.9	0.1	113.9	0.1	113.9	0.1

Calibration measured with the microphone SVANTEK type SV22 No. 4010479.

3. LINEARITY TEST (electrical)

LEVEL METER; Range: 105 dB; Filter: A; f_{sin}= 1000 Hz

	Input [dB]	24.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	114.0
Channel 1	Error [dB]	-0.16	-0.07	-0.01	-0.02	-0.01	-0.01	0.00	0.00	0.00	0.01	0.00
Channel 2	Error [dB]	-0.11	-0.05	0.00	-0.01	0.00	0.00	0.01	0.00	0.01	0.02	0.01
Channel 3	Error [dB]	0.06	0.08	0.02	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.01	0.00
Channel 4	Error [dB]	0.06	0.08	0.02	-0.01	-0.01	-0.01	0.00	0.00	0.01	0.01	0.01

LEVEL METER; Range: 130 dB; Filter: A; f_{sin}= 1000 Hz

	Input [dB]	45.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	135.0
Channel 1	Error [dB]	-0.08	-0.06	-0.02	-0.01	0.01	0.01	0.01	0.01	-0.01	0.01	0.00
Channel 2	Error [dB]	-0.05	-0.04	-0.02	-0.01	0.00	0.00	0.01	0.01	-0.01	0.01	0.00
Channel 3	Error [dB]	0.26	0.15	0.04	0.00	0.01	0.00	0.01	0.01	-0.01	0.00	0.00
Channel 4	Error [dB]	0.29	0.16	0.04	0.00	0.00	0.00	0.00	0.00	-0.02	0.00	0.00

1/3 OCTAVE (1kHz); Range: 130 dB; Filter: A; f_{sin}= 1000 Hz

	Input [dB]	35.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0	110.0	120.0	130.0	135.0
Channel 1	Error [dB]	0.20	-0.19	-0.08	-0.01	-0.01	0.01	0.00	0.01	0.01	-0.01	-0.00	-0.00
Channel 2	Error [dB]	0.23	-0.15	-0.05	-0.02	-0.01	0.01	0.00	0.01	0.01	-0.01	-0.00	-0.00
Channel 3	Error [dB]	0.62	0.21	0.15	0.04	0.01	0.01	0.01	0.01	0.01	-0.01	-0.00	-0.00
Channel 4	Error [dB]	0.59	0.24	0.13	0.04	0.00	0.00	0.00	0.01	0.01	-0.01	-0.00	-0.00

4. RMS DETECTOR ACCURACY*

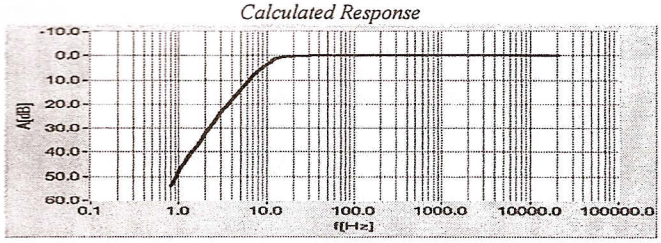
LEVEL METER; Range: 130 dB; Input signal =120dB; RMS detector: Impulse

	Crest factor	≤3	≤5	≤10
Channel 1	Max Error [dB]	-0.2	-0.5	-1.4
Channel 2	Max Error [dB]	-0.2	-0.5	-1.4
Channel 3	Max Error [dB]	-0.2	-0.4	-1.4
Channel 4	Max Error [dB]	-0.3	-0.5	-1.4

5. FREQUENCY RESPONSE (electrical)

LEVEL METER; Filter: LIN; Range: 130 dB; Input signal =135 dB;

Calculated Response



Measured Response (f-frequency, An-attenuation in channel n)

f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]
0.8	53.8	53.8	53.8	53.8	6.3	9.5	9.5	9.5	9.5
1	48.1	48.1	48.1	48.1	8	5.9	5.9	5.9	5.9
1.25	42.6	42.6	42.6	42.6	10	3.1	3.1	3.1	3.1
1.6	37.2	37.2	37.2	37.2	12.5	1.3	1.3	1.3	1.3
2	32.1	32.1	32.1	32.1	16	0.4	0.4	0.4	0.4
2.5	27.1	27.1	27.1	27.1	20	0.1	0.1	0.1	0.1
3.15	22.4	22.4	22.4	22.4	25	0.0	0.0	0.0	0.0
4	17.8	17.8	17.8	17.8	31.5	-0.1	-0.1	-0.1	-0.1
5	13.6	13.6	13.6	13.6	40	-0.1	-0.1	-0.1	-0.1

f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]
50	-0.1	-0.1	-0.1	-0.1	400	0.0	0.0	0.0	0.0	3150	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	500	0.0	0.0	0.0	0.0	4000	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	630	0.0	0.0	0.0	0.0	5000	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	800	0.0	0.0	0.0	0.0	6300	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	1000	0.0	0.0	0.0	0.0	8000	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	1250	0.0	0.0	0.0	0.0	10000	0.0	0.0	0.0	0.0
200	0.0	0.0	0.0	0.0	1600	0.0	0.0	0.0	0.0	12500	0.0	0.0	0.0	0.0
250	0.0	0.0	0.0	0.0	2000	0.0	0.0	0.0	0.0	16000	0.0	0.0	0.0	0.0
315	0.0	0.0	0.0	0.0	2500	0.0	0.0	0.0	0.0	20000	0.0	0.0	0.0	0.0

All frequencies are nominal center values for the 1/3 octave bands

6. INTERNAL NOISE LEVEL* (electrical)

LEVEL METER; Range: 105 dB; Back-light – off

	Filter	LIN	A	C
Channel 1	**Level [dB]**	15.2	11.3	10.0
Channel 2	**Level [dB]**	14.7	11.1	10.0
Channel 3	**Level [dB]**	15.0	11.5	10.0
Channel 4	**Level [dB]**	15.3	11.3	10.0

* measured with preamplifier SVANTEK type SV12L No. 1992.

VIBRATION LEVEL METER

1. CALIBRATION (electrical)

LEVEL METER; Filter: HP10; Input signal =140.0dB (10.0 m/s^2), f_{sin}=79,6Hz

	Range 145dB		Range 170dB	
	Indication [dB]	**Error [dB]**	**Indication [dB]**	**Error [dB]**
Channel 1	139.99	-0.01	140.03	0.03
Channel 2	139.98	-0.02	140.03	0.03
Channel 3	139.99	-0.01	140.03	0.03
Channel 4	139.98	-0.02	140.03	0.03

2. CALIBRATION (vibrational)

LEVEL METER; Range: 145dB; Input signal: 120dB; Calibration factors: -0.1dB, -0.1dB, -0.1dB, -0.1dB

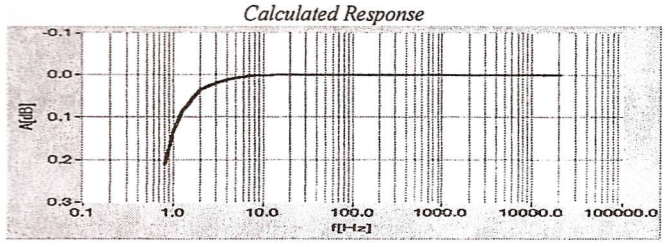
Filter	HP1		HP10		Wd		Wm		Wh	
	Indication [dB]	**Error [dB]**	**Indication [dB]**	**Error [dB]**	**Indication [dB]**	**Error [dB]**	**Indication [dB]**	**Error [dB]**	**Indication [dB]**	**Error [dB]**
Channel 1	119.8	-0.2	119.8	-0.2	108.2	0.1	115.4	0.1	106.0	-0.1
Channel 2	119.9	-0.1	119.9	-0.1	108.2	0.1	115.4	0.1	106.0	-0.1
Channel 3	119.9	-0.1	119.9	-0.1	108.3	0.2	115.4	0.1	106.0	-0.1
Channel 4	119.9	-0.1	119.9	-0.1	108.2	0.1	115.4	0.1	106.0	-0.1

Calibration measured with the accelerometer DYTRAN type 3185D No. 2442.

3. FREQUENCY RESPONSE (electrical)

1/3 OCTAVE; Filter: HP; Range: 170 dB; input=175 dB;

Calculated Response



Measured Response (f-frequency, An-attenuation in channel n)

f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2 [dB]	A3[dB]	A4[dB]
0.8	0.16	0.16	0.15	0.17	6.3	-0.02	-0.02	-0.02	-0.02
1	0.14	0.14	0.14	0.15	8	-0.01	-0.01	-0.01	0.00
1.25	0.10	0.10	0.10	0.10	10	0.00	0.00	0.00	0.00
1.6	0.06	0.06	0.06	0.06	12.5	-0.03	-0.03	-0.02	-0.02
2	0.03	0.03	0.03	0.04	16	0.00	0.00	0.00	0.00
2.5	0.01	0.01	0.01	0.02	20	0.01	0.01	0.01	0.01
3.15	0.02	0.02	0.02	0.02	25	0.02	0.02	0.02	0.02
4	0.01	0.02	0.02	0.02	31.5	0.02	0.02	0.02	0.02
5	0.00	0.01	0.01	0.01	40	-0.01	-0.01	0.00	0.00

f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]	f [Hz]	A1[dB]	A2[dB]	A3[dB]	A4[dB]
50	0.01	0.01	0.01	0.01	400	-0.01	-0.01	-0.01	0.00	3150	0.01	0.01	0.01	0.01
63	0.00	0.00	0.00	0.00	500	-0.01	-0.01	-0.01	0.00	4000	0.01	0.01	0.01	0.02
80	0.00	0.00	0.00	0.00	630	-0.01	-0.01	0.00	0.00	5000	0.01	0.02	0.01	0.02
100	0.00	0.00	0.00	0.00	800	-0.01	0.00	0.00	0.00	6300	0.03	0.03	0.02	0.03
125	-0.01	-0.01	0.00	0.00	1000	0.00	0.00	0.00	0.00	8000	0.04	0.04	0.03	0.04
160	-0.01	-0.01	-0.01	0.00	1250	0.00	0.00	0.00	0.00	10000	0.05	0.05	0.04	0.05
200	-0.01	-0.01	0.00	0.00	1600	0.00	0.00	0.00	0.00	12500	0.05	0.05	0.04	0.05
250	-0.01	-0.01	-0.01	0.00	2000	0.00	0.00	0.00	0.00	16000	0.03	0.03	0.02	0.03
315	-0.01	-0.01	-0.01	0.00	2500	0.00	0.00	0.00	0.01	20000	0.01	0.02	0.03	0.01

All frequencies are nominal center values for the 1/3 octave bands

4. INTERNAL NOISE LEVEL (electrical)

LEVEL METER func.; Range: 145 dB; Back-light – off

	Filter	HP1	HP10	Wd	Wm	Wh
Channel 1	**Indication** [dB]	55.4	51.7	46.9	40.4	38.0
Channel 2	**Indication** [dB]	55.6	52.2	47.0	40.6	38.0
Channel 3	**Indication** [dB]	55.7	52.2	46.6	40.5	38.1
Channel 4	**Indication** [dB]	55.8	52.7	46.5	40.0	38.5

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
23 °C	39 %	995 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1.	SVANTEK	SVAN 401	87	Signal generator
2.	SVANTEK	SVAN 912A	0	Sound &Vibration Analyser
3.	SOAR	3430	90CA1811	Digital voltmeter
4.	SVANTEK	SV30A	5369	Acoustic calibrator
5.	SVANTEK	ST02	-	Microphone equivalent electrical impedance (18pF)
6.	DYTRAN	3120A	1306	Reference accelerometer

CONFORMITY & TEST DECLARATION

1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.

2. Tracebility of the calibration is guarantied by the above mentioned ISO9001 procedures.

3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Mariusz Mucha ....M. Mucha..... Test date: 2006-05-30

III – ANOTAÇÃO DE RESPONSABILIDADE TÉCNICA (ART)

CREA-MG

CONSELHO REGIONAL DE ENGENHARIA ARQUITETURA E AGRONOMIA DE MINAS GERAIS
Av. Álvares Cabral, 1600 - Fone 31 3299-8700 - Fax 31 3299-8720 - CEP 30170-001 - Belo Horizonte - Minas Gerais
Ouvidoria: 0800 28 30 273 - Atendimento: 0800 031 2732

VIA 02
ART Nº
1-40474039

ANOTAÇÃO DE RESPONSABILIDADE TÉCNICA - ART

MATRIZ OBRA / SERVIÇO

CONTRATADO

01 Nome do profissional responsável pela Obra ou Serviço	05 Registro no CREA	07 CPF
RODRIGO KASBERGEN SILVA	MG-80559/D	024.435.576-26

03 Título(s) do Profissional	08 Telefone
ENGENHEIRO MECANICO	(0031)3418-2026

09 Endereço Residencial do Profissional	10 CEP
RUA MAURETTE JOSE DOS SANTOS, 000125 CASTELO, BELO HORIZONTE/MG	30840-590

11 Nome da Empresa Contratada
SEGMA ENGENHARIA DE SEGURANCA DO TRABALHO E MEIO AMBIENTE

12 Registro no CREA	13 CNPJ	14 Capital Social	15 Telefone
0222765	66.353.590/0001-44	21000	(0031)3416-6565

16 Endereço para Correspondência	17 CEP
RUA DAVID RABELO, 000210 CASA - INCONFIDENCIA, BELO HORIZONTE/MG	30820-260

CONTRATANTE

18 Nome do Contratante	19 CPF ou CNPJ
AMPLO TREINAMENTO E CONSULTORIA LTDA	04.590.934/0001-81

20 Endereço para Correspondência	21 CEP
RUA BUENOPOLIS, 45 SALA 301, SANTA TEREZA, BELO HORIZONTE/MG	31015-120

DADOS DA OBRA / SERVIÇO

22 Nome do Proprietário	23 CPF ou CNPJ
AMPLO TREINAMENTO E CONSULTORIA S/C LTDA	04.590.934/0001-81

24 Endereço da Obra ou Serviço
RUA BUENOPOLIS 45 SALA 301, SANTA TEREZA,

25 Município	26 CEP
BELO HORIZONTE/MG	31015-120

27 Atividade Técnica

01 Geral Tipo	02 Geral Tipo	03 Geral Tipo	04 Geral Tipo	05 Geral Tipo	06 Geral Tipo	07 Geral Tipo	08 Geral Tipo	09 Geral Tipo	10 Geral Tipo
34 30									

33 Finalidade	34 Ent. Classe	35 Quantificação	36 Unidade	37 Valor da Obra/Serviço	38 Honorários	39 Tipo Contrato
34113	0140	0,00		34.108,80	0,00	7

40 Descrição Complementar
CARACTERIZAÇÃO DE RUIDO E VIBRAÇÃO NOS PROJETOS N4/N5 E LINHA DE TRANSMISSÃO

ASSINATURAS

41 Responsabilizamo-nos pela veracidade das informações prestadas

VINCULAÇÃO LEGAL

A ART é regida pela Lei 6496/77 e, na falta de outro documento, vale para todos os efeitos legais, como contrato entre as partes.

LEMBRETE - Concluída a obra ou serviço, há a necessidade de solicitar baixa da ART no CREA-MG. Cada ART baixada incorpora-se ao acervo técnico do profissional, do qual pode-se obter certidão mediante requerimento. O acervo técnico é documento de grande valia, principalmente como currículo, para participação de licitações e comprovações junto à previdência para efeito de aposentadoria.

LOCAL E DATA

PROFISSIONAL

CONTRATANTE

ESTA ART SÓ É VÁLIDA APÓS A COMPROVACAO DO SEU PAGAMENTO.

42 Data de Pagamento	43 Valor da Taxa de ART	
	300,00	Esta ART foi verificada eletronicamente pelo CREA-MG em 07/04/2009. Documento válido após a comprovação do pagamento. É de responsabilidade do profissional o envio da via do CREA-MG para fins de registro no acervo técnico.

AUTENTICAÇÃO MECÂNICA

VIA DA OBRA/SERVIÇO

Bradesco Net Empresa

Comprovante de Pagament
Boleto de Cobranç

Data: **07/04/200**

Banco:	**1 - BANCO DO BRASIL S.A.**
Boleto Nº:	**00194.58652 90000.831405 47403.900211 1 00000000030000**
Data do Pagamento:	**07/04/2009**
Valor do Pagamento:	**300,00**
Data de Vencimento:	**17/04/2009**
Favorecido Informado:	**ART 1-40474039 AMPLO TREINAMENTO**
Debitado da:	**Conta Corrente**

A cobrança acima foi paga através do(a) NetEmpresa, dentro das condições especificadas.
O lançamento consta no extrato do(a) cliente SEGMA ENGENHARIA DE SEGURANÇA DO TRABALH Agência 2828 - Conta 1654, da data de pagamento, sob o número de protocolo **0002946**.

Nº Controle: 846.164.847.079.321.575

Banco Bradesco S.
http://www.bradesco.com.

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qtvLBqgg QUbYy6mo VQHRxEI6 R2c?YKfB mtRHJwk7 f@lfEnY8 00191000 00000030

IMPRIMIR FECHAR