Sonus Paradisi

Impulse Response (IR) User Guide

Installation

To install Impulse Responses, follow the process described in chapter "Installing/un-installing/upgrading organs, temperaments, or reverbs (the component installer)" found in the Hauptwerk User Guide. In Hauptwerk, installing an IR is similar to installing an organ or temperament. In short:
1. Start Hauptwerk.
2. Select the File menu, and then select "Install organ ...".
3. Hauptwerk opens a dialog box. Navigate through the directory tree to the installation package, and select the installation package you have downloaded.
4. Hauptwerk unpacks and installs the package. Confirm installation when prompted by Hauptwerk.
5. If there are more installation packages, repeat steps 2-4 for each remaining installation package. If you have purchased many IRs in one order, there will be many small installation packages. It is necessary to install each of them, one by one, to Hauptwerk.

Usage

Impulse Response use is covered in detail in the Hauptwerk User Guide chapter "Audio routing and impulse response reverb, part 1 and part 2". In short:

1. Open the Hauptwerk Audio Mixer.
2. Select the desired bus to which you wish to apply the IR.
3. Click the "Select" button on the right side of the dialog box in the section called "Impulse response reverb".
4. From the list of available IRs, select the one you wish to apply to the bus.
5. You can adjust the pre-delay, wet-mix and reverb-level if desired. For best results, use small adjustments.

When capturing IRs in a church, we have usually captured more than one IR, varying the placement of the source or mics, and the resulting IRs are available in collections. Thus, several IRs featuring the acoustics of a particular room are usually available in a Sonus Paradisi collection. You can experiment applying a different IR from the collection to different ranks, or different divisions of the sample set by assigning those ranks or divisions to a bus and then applying the IR to that bus. For example, you can route the Hoofdwerk division to bus X and the Pedal division to bus Y, applying different IRs to each bus.The resulting reverb may be richer or more variable, which may please your ear.

How to select the appropriate IR

Impulse Response (IR) is a "footprint" of the acoustic characteristics of the given space (church). IR can be used to reproduce these characteristics and add them to an input signal with the help of dedicated software (such as Hauptwerk's convolution reverb module). The most distinctive acoustic characteristic of a space is the reverberation time (i.e. how long it takes for the sound to die away). Therefore, the IRs described in this guide are ordered according to increasing reverberation time. However, there are other features according to which you might choose your favorite IR.

Acoustical Parameters (ISO 3382)
Each of the Sonus Paradisi IR collections contains a selection of acoustical parameters based on the ISO standard 3382. A clever utility written by Angelo Farina was used to measure these values. For typical use, the most interesting parameters are Reverberation Times (EDT, T20, T30) and Clarity C50 and C80.

RT, T20, T30 - Reverberation time (RT) is defined as the time needed for the sound to decay 60dB below the original value. It is usually measured as the time for the sound to decay 20dB, which is then multiplied by 3, or the time to decay 30dB, then multiplied by 2. The reverberation time is frequency dependent. Every frequency band may decay differently. Usually, very high frequencies decay very soon, the maximum RT is somewhere between 500-2000 Hz. Each IR description below contains a graph showing the frequency decay for various frequency bands. The colors indicate the intensity of the sound: yellow = high energy, red = less energy, violet = low energy, black = no energy (background noise).

EDT - early decay time, the time needed for the sound to decay first 10dB, then multiplied by 6. The shorter EDT, the better for the clarity of music.

Clarity (C50, C80) - ratio of the early sound energy (first 50ms or 80ms, respectively) to the later reverberant energy. The lower the value, the more "muddy" sound. For concert halls, it is usually recommended that the values are kept in the range of +1dB to -4dB, but of course, this recommendation may not apply to church acoustics and organ music.

Please bear in mind that the graphs and tables reflect only one channel of one sample IR from the given collection (typically the left channel of the center IR). The parameters of the other IRs from the same collection might differ substantially from the presented one.

IR Naming Conventions

The IRs all follow a consistent set of naming conventions. The first part of the IR name gives the supplier ID, i.e. Sonus Paradisi. The name of the building follows. It may be a church, chappel, or hall, and then a short name of the city and the building is given. It is easy to guess that "Prague Mikulas" denotes the church of St. Mikulas (Nicolaus) in Prague, etc.

The characters following the geographical indication may appear mysterious at the first sight. However, they follow simple conventions that allow easy orientation what the IR represents. In order, they describe 1) the microphone technique used to capture the IR, 2) the distance of the sound source to the microphones in meters, and 3) the position of the source.

The last part of the file name (a number in parentheses) indicates the approximate reverberation time (RT) in seconds.

Microphone techniques
- **cardio** or **ortf** – denotes the Office de Radiodiffusion Télévision Française technique, with the cardioid microphones being directed towards the source (good for the front channels of your audio setup)
- **IRTf** – refers to the front mics of the IRT cross
- **rear or IRTr** - denotes the IRT-cross rear channels, with the cardioid microphones directed away from the source (good for the surround channels of your audio setup)
- **omni** – denotes the AB recording technique with two omni microphones spaced about 0.7 meters apart.
- **omniW** – denotes the AB recording technique with two omni microphones spaced about 1.5 meters apart.

- **jecklin** - the recording technique using a so-called Jecklin disk.
- **head** – a recording made using a dummy (or real) human head
- **NOS** – the Nederlandse Omroep Stichting recording technique

Whenever there is a scheme accompanying the IR, the following pictograms may be used to identify the positions of the source and that of the mics:

⊕ ⊕	AB - 2 spaced omni´s
⋗	O.R.T.F. or N.O.S or a part of an IRT-cross
✧	dummy head (binaural)
☚	jecklin disk
Ⲕ	speaker (sound source)

Positions of the source, true stereo

Because an organ is an unusually extensive and spacious object, it cannot be reduced to a single-point instrument such as an oboe. Rather, it may be compared to a whole orchestra where every instrument occupies its own place in the space. In the case of a large organ, each division, or indeed every pipe, could be considered a singl-point instrument. To simplify the model, it seemed adequate to reduce these many single-point instruments to several "typical" locations, providing IRs specific for these locations. This permits a user to emulate the diverse spatial effects of the organ in its space. By grouping the dry samples into different channels, a user can be able to apply various IRs to various parts of the organ (such as divisions or chambers), reproducing the spatial differences between these parts.

Hauptwerk requires true stereo IRs. That means the sound is captured by two mics (left and right) and the resulting sound source from each mic also has a left and a right channel. This results in the 4 channels of the true-stereo IR, which contain:

1. The source left channel to the left mic,
2. The source left channel to the right mic,
3. The source right channel to the left mic,
4. The source right channel to the right mic.
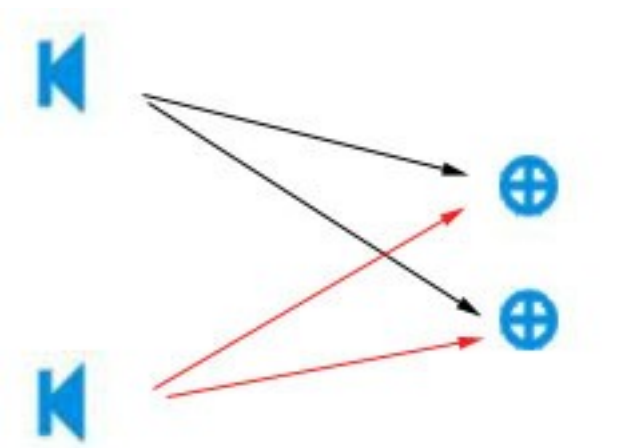
There are letters in the filenames describing the location of the source:
- LR - the source was spaced to the left and right side
- LRw - the source was widely spaced left and right
- LR1 ... LR8 - the source spacing varied, LR1 meaning narrow spaced source, LR8 the widest spacing.
- C – center: Sometimes, the source was still a little bit L-R spaced around the centre to allow for a true stereo, but in some cases, only a single central sound source was used (L and R collapsed into one single point), producing a pseudo-true-stereo IR (the channels 1-2 are identical to the channels 3-4).

Other distinguishing marks

Various versions of the same IR may have other letters or numbers before or after the name (1, 2 and similar). These have usually no other function than to indicate another variant of the IR – typically from a different take.

Direct spike, balancing

After much thought, we deliberately decided to remove the direct spike from all our impulses and to put all of them in good L-R balance. Therefore, the so called "purist approach" is not possible with our IRs. There are various reasons for this approach, but the main reason is ease of use. With our approach the IR is ready to use without needing to adjust anything, and the wet output can be mixed with a portion of the dry sound.

Another reason for removing the direct spike is specifically connected with a pipe organ: Having an IR with a direct spike, you retain the precise position of the sound source in the space (with respect to the invariant position of the listener). This would give good results for a point-like instrument, but in the case of organ the direct spike would give misleading results because it would force the wrong localization onto the wet sound (unless one makes an IR each pipe of the organ at the exact position of each pipe, which is not realistic). Moreover, the organ samples for which these IRs were designed are not entirely dry, which precludes the purist approach anyway.

Description of available IRs

VCem15

An artificially created true stereo impulse of a small hall or a chapel. Designed especially for the Sonus Paradisi Cembalo Mietke Model or Klavichord Model. Reverberation time approx. 1.3 s.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

| | Close | Help |

OK - keep processed
Save Results to File...
Copy Results to Clipboard
Store G Reference Signal

Channel:
◉ Left   ○ Right

Tuser limits:
(0. dB, -60. dB)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	59.82	64.75	65.64	68.19	71.98	74.21	76.90	78.56	79.03	78.01	84.62	84.78
Noise (dB)	-62.70	-69.49	-71.58	-67.51	-65.48	-62.29	-59.10	-56.05	-52.98	-47.99	-48.07	-44.47
strenGth(dB)	-9.18	-4.25	-3.36	-0.81	2.98	5.21	7.90	9.56	10.03	9.01	7.62	7.78
C50 (dB)	-3.16	-5.18	-4.39	-4.83	-3.12	-2.62	-1.39	-1.15	3.08	7.73	-0.13	0.05
C80 (dB)	-1.47	-1.66	-1.64	-2.75	-1.17	-0.64	1.03	1.82	5.77	10.63	2.38	2.43
D50 (%)	32.59	23.30	26.66	24.76	32.79	35.36	42.09	43.40	67.04	85.56	49.28	50.30
Ts (ms)	151.97	130.48	138.37	133.12	115.91	106.74	86.28	74.03	44.33	27.81	71.90	72.18
EDT (s)	1.32	1.05	1.77	1.49	1.42	1.36	1.12	0.99	0.66	0.41	1.03	1.04
T20 (s)	0.91	1.00	1.24	1.37	1.30	1.25	1.12	0.94	0.72	0.48	1.06	1.10
r T20	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
T30 (s)	0.82	1.00	1.23	1.31	1.27	1.21	1.13	0.93	0.72	0.49	1.09	1.13
r T30	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	0.96	1.05	1.19	1.33	1.31	1.25	1.12	0.95	0.70	0.47	1.12	1.15
r Tuser	0.99	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 1 item

`Sonus Paradisi, Chapel, VCem15, Artificial (1.3s)`

Jicha15

A collection of IRs captured in Prague, the chapel of Sv. Jiljí monastery. Reverberation time approx. 1,5 s. The 15m IR was taken with the microphones directed towards the shorter wall, while the 3.3m version was taken with the microphones directed towards the wider wall.

Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	○ 31.5	○ 63	○ 125	○ 250	○ 500	○ 1k	○ 2k	○ 4k	○ 8k	○ 16k	○ A	◉ Lin
Signal (dB)	42.21	55.31	67.77	66.70	71.13	76.84	79.03	78.28	77.99	70.71	84.85	85.13
Noise (dB)	-12.32	-19.30	-19.44	-10.32	-11.41	-10.76	-18.86	-22.28	-39.04	-51.94	-7.84	-4.07
strenGth(dB)	-26.79	-13.69	-1.23	-2.30	2.13	7.84	10.03	9.28	8.99	1.71	7.85	8.13
C50 (dB)	-4.22	-3.78	0.20	-0.11	-1.32	-1.94	-1.02	-1.07	4.31	7.31	-0.26	0.13
C80 (dB)	-2.71	-1.28	1.96	1.19	0.95	1.51	0.70	1.94	7.33	13.20	2.19	2.57
D50 (%)	27.46	29.54	51.13	49.36	42.44	38.99	44.18	43.86	72.98	84.34	48.50	50.73
Ts (ms)	187.97	183.29	130.08	108.17	102.95	115.75	110.38	87.07	42.07	32.40	91.42	88.00
EDT (s)	2.01	2.42	2.07	1.49	1.45	1.77	1.63	1.13	0.64	0.35	1.34	1.31
T20 (s)	1.79	2.34	2.21	1.51	1.47	1.86	1.77	1.19	0.75	0.36	1.64	1.66
r T20	0.98	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	2.13	2.53	2.16	1.53	1.52	1.91	1.73	1.22	0.77	0.38	1.67	1.69
r T30	0.96	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	2.53	2.72	2.16	1.62	1.50	1.84	1.73	1.28	0.78	0.45	1.69	1.73
r Tuser	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 4 items
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Sonus Paradisi, Chapel, Praha sv.Jilji, NOS 15m LR (1.5s)
Sonus Paradisi, Chapel, Praha sv.Jilji, omni 15m LR (1.5s)
Sonus Paradisi, Chapel, Praha sv.Jilji, omni 3.3m C (1.5s)
Sonus Paradisi, Chapel, Praha sv.Jilji, omni 3.3m LR (1.5s)
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Two of the IRs are a part of the Hauptwerk demo IR set, with he names:
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HauptwerkReverb-Chapel01-Omni-3.3m-LR-1.5s
HauptwerkReverb-Chapel01-Omni-15m-LR-1.5s
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Vch32

An artificial true stereo impulse, very small space, slightly resonant. Reverberation time below 1.5 s.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	65.55	70.00	70.18	72.20	75.37	77.15	79.72	82.04	83.15	78.72	87.71	88.58
Noise (dB)	-40.13	-38.83	-36.27	-36.40	-37.32	-36.27	-35.08	-32.69	-30.18	-27.59	-25.46	-7.22
strenGth(dB)	-3.45	1.00	1.18	3.20	6.37	8.15	10.72	13.04	14.15	9.72	10.71	11.58
C50 (dB)	-3.35	-5.30	-4.37	-4.68	-3.08	-2.77	-1.84	-2.38	0.98	4.71	-1.16	-0.80
C80 (dB)	-1.71	-1.75	-1.70	-2.64	-0.97	-0.79	0.60	0.49	3.70	8.29	1.38	1.69
D50 (%)	31.61	22.81	26.76	25.38	32.99	34.58	39.59	36.66	55.63	74.76	43.38	45.38
Ts (ms)	158.23	132.89	140.07	132.38	116.68	109.32	93.89	89.27	57.60	36.12	82.01	79.52
EDT (s)	1.51	1.11	1.79	1.49	1.44	1.39	1.27	1.17	0.79	0.47	1.13	1.10
T20 (s)	1.19	1.24	1.39	1.40	1.30	1.28	1.24	1.11	0.75	0.48	1.14	1.15
r T20	0.98	0.97	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	1.49	1.37	1.34	1.33	1.28	1.25	1.24	1.09	0.73	0.49	1.15	1.18
r T30	0.97	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	1.48	1.35	1.44	1.42	1.35	1.32	1.24	1.08	0.76	0.54	1.19	1.22
r Tuser	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 1 item

Sonus Paradisi, Chapel, Vch32, Artificial (1.5s)

The IR is not sold by Sonus Paradisi, it is a part of Hauptwerk demo IR set, with the name:

HauptwerkReverb-SyntheticChapel01-Omni-3m-LR-1.5s

Kr39

An artificial true stereo IR, suitable for any smaller organ. Reverberation time below 2 s.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	70.18	73.49	75.54	78.17	80.23	83.15	84.69	86.50	86.83	82.59	92.25	93.08
Noise (dB)	-8.30	-5.91	-4.49	-0.32	-0.40	1.29	0.23	-13.77	-31.67	-28.93	5.37	9.48
strenGth(dB)	1.18	4.49	6.54	9.17	11.23	14.15	15.69	17.50	17.83	13.59	15.25	16.08
C50 (dB)	-5.26	-3.98	-8.79	-2.38	-3.97	-3.13	-2.85	-2.34	-0.78	3.62	-2.13	-1.84
C80 (dB)	-3.62	1.82	-6.04	-0.48	-0.97	-0.39	-0.42	0.43	2.30	7.02	0.62	0.90
D50 (%)	22.94	28.56	11.66	36.65	28.64	32.71	34.15	36.86	45.54	69.70	37.98	39.57
Ts (ms)	201.51	143.80	175.76	137.67	136.81	124.70	128.13	111.55	81.23	43.28	108.95	105.18
EDT (s)	1.72	1.52	1.92	1.79	1.72	1.66	1.77	1.56	1.10	0.59	1.53	1.47
T20 (s)	2.01	1.64	1.74	1.78	1.79	1.77	1.66	1.41	0.99	0.56	1.55	1.57
r T20	0.99	0.99	1.00	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	1.98	1.86	1.77	1.80	1.85	1.79	1.69	1.41	0.90	0.52	1.59	1.63
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	1.78	1.84	1.86	1.80	1.84	1.80	1.72	1.41	0.89	0.53	1.64	1.66
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 2 items

`Sonus Paradisi, Church, Kr39, Artificial (1.9s)`
`Sonus Paradisi, Church, Kr39tx, Artificial (1.9s)`

tx version gives "bigger" sound.

Hho26

A collection of IRs from the Hvězda palace in Prague (CZ), Hodovní sál hall. IRs from this collection are exceptionally suitable for chamber music, Cembalo Mietke Model, Klavichord Model or a smaller organ. Reverberation time approx. 2.7 s. The reverb is harmonicaly centered around 2kHz (very high). Three microphone positions, three source positions.
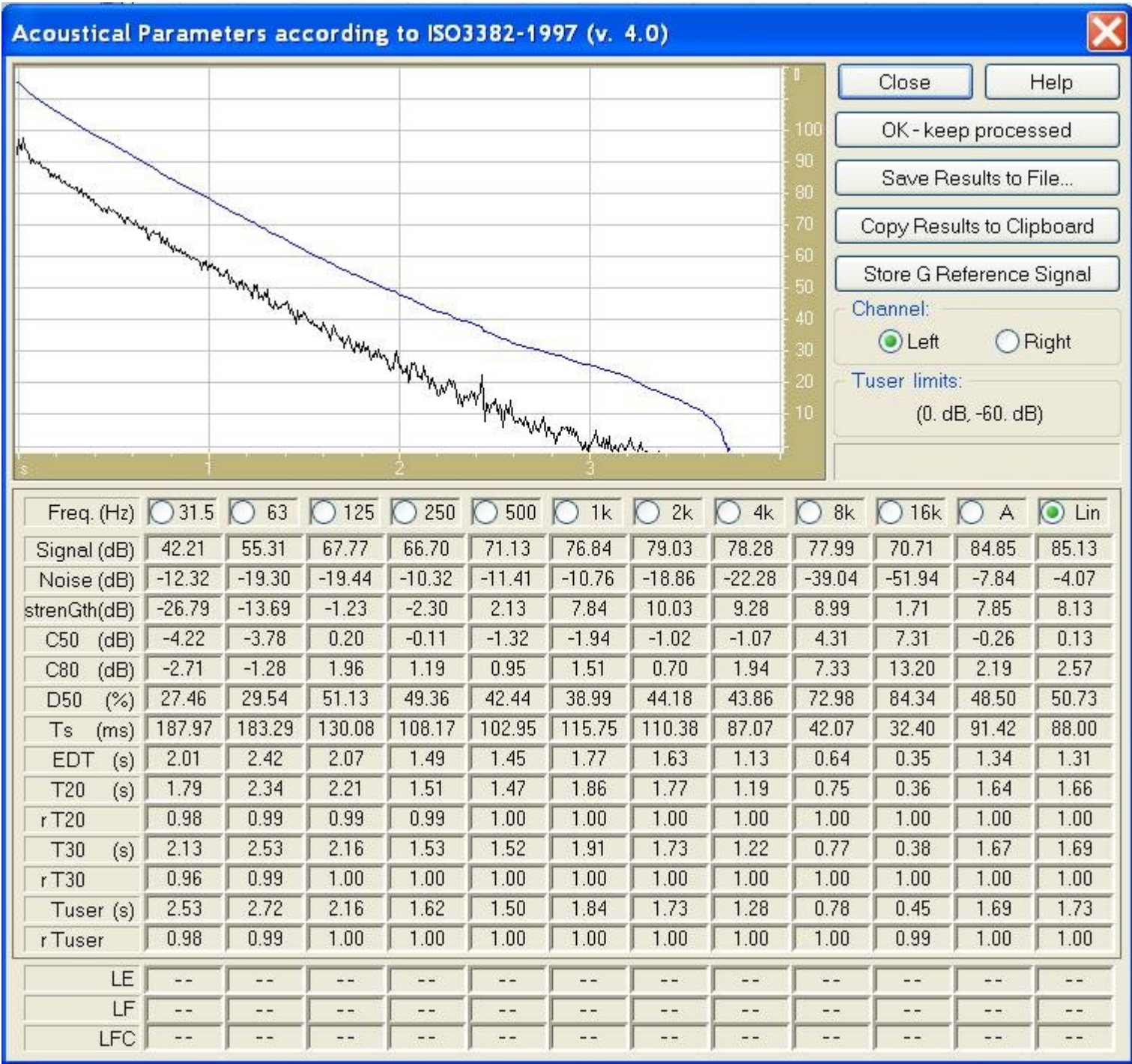
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	48.49	67.20	70.09	70.01	73.15	78.21	79.69	77.14	75.36	66.47	84.80	85.17
Noise (dB)	-15.16	3.27	-10.33	-8.40	-1.82	18.84	20.13	0.47	-30.94	-49.27	23.43	23.13
strenGth(dB)	-20.51	-1.80	1.09	1.01	4.15	9.21	10.69	8.14	6.36	-2.53	7.80	8.17
C50 (dB)	3.51	-5.71	-2.61	-2.44	-3.12	-4.36	-4.88	-3.51	-1.05	2.85	-3.96	-3.63
C80 (dB)	3.98	-3.73	-1.67	-1.27	-0.77	-2.33	-3.32	-2.08	0.41	4.42	-2.32	-2.03
D50 (%)	69.17	21.18	35.43	36.32	32.77	26.84	24.54	30.82	43.96	65.86	28.65	30.26
Ts (ms)	157.78	229.93	142.43	159.95	164.83	212.22	218.48	170.41	103.71	58.52	192.24	183.85
EDT (s)	2.89	2.32	1.84	2.11	2.40	3.04	3.08	2.34	1.43	0.94	2.74	2.62
T20 (s)	2.88	1.67	2.26	2.55	2.62	3.21	3.15	2.53	1.44	0.84	3.02	2.95
r T20	0.96	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	2.86	1.73	2.18	2.58	2.61	3.16	3.15	2.59	1.55	0.87	3.03	2.99
r T30	0.99	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.05	2.60	2.50	2.66	2.63	3.12	3.12	2.59	1.65	1.01	3.05	3.01
r Tuser	0.99	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 6 items

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Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, cardio 12m C (2.7s)
Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, cardio 12m LR (2.7s)
Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, omni 12m C (2.7s)
Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, omni 12m LR (2.7s)
Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, omniW 12m C (2.7s)
Sonus Paradisi, Hall, Praha Hvezda.Hodovni Sal, omniW 12m LR (2.7s)
```

One IR of this collection is a part of Hauptwerk demo IR set, with the name:
```
HauptwerkReverb-Hall01-ORTF-12m-LR-2.6s
```

Prbt29

A collection of impulse responses of Prague, church of sv. Bartoloměj. Reverberation time approx. 3.1 s. The IRs represent a small baroque church. Four microphone techniques and 3 positions of the source available.

Time/Frequency graph
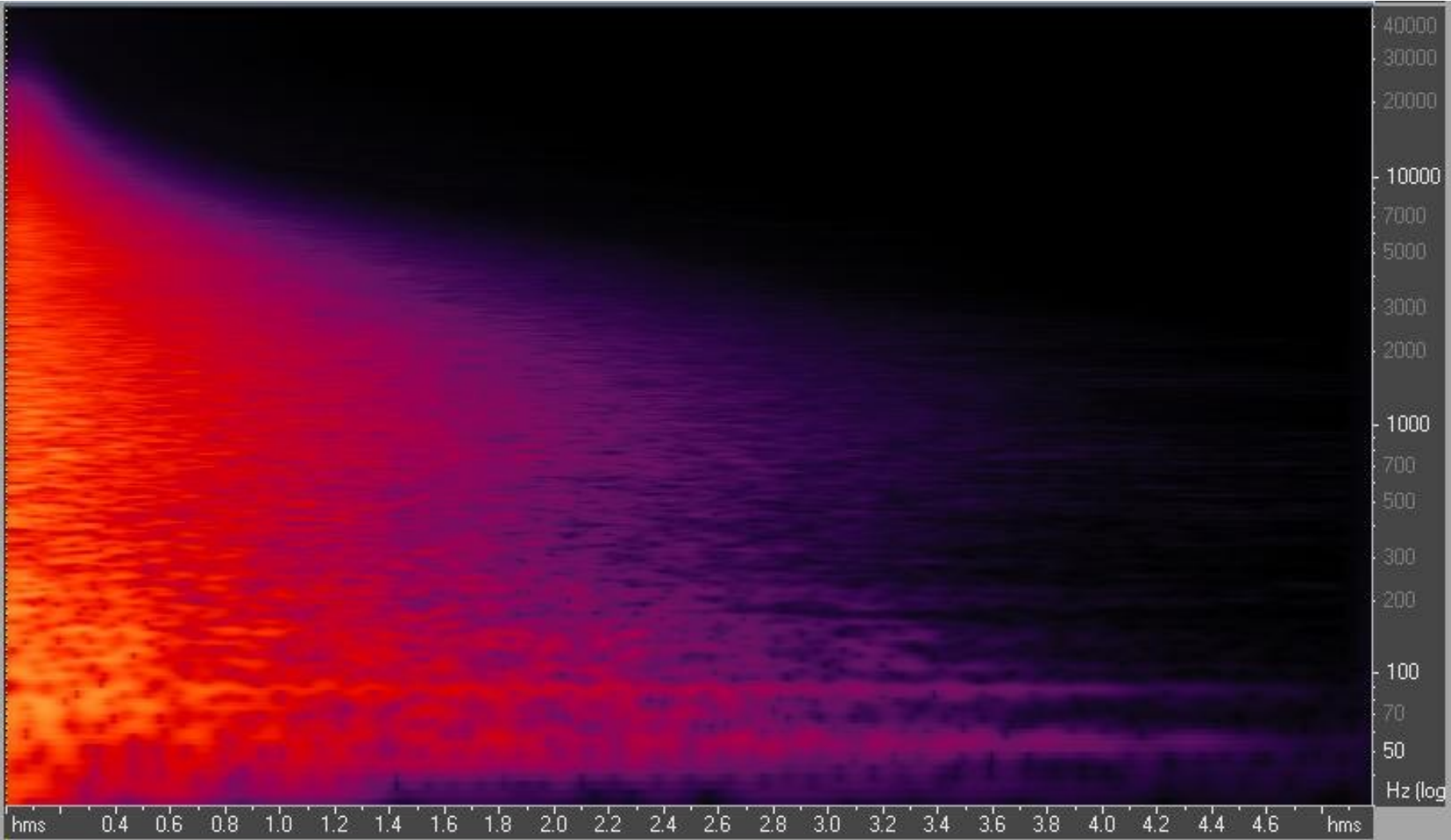
Sources and microphone positions

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	53.49	69.48	71.39	70.88	73.49	77.18	79.05	78.57	76.23	64.88	84.79	85.33
Noise (dB)	-5.44	1.98	-13.88	-26.78	-16.19	-17.44	-22.80	-48.09	-55.14	-55.38	-11.68	2.13
strenGth(dB)	-15.51	0.48	2.39	1.88	4.49	8.18	10.05	9.57	7.23	-4.12	7.79	8.33
C50 (dB)	2.42	-5.51	-6.94	-3.64	-3.51	-4.26	-4.27	-2.87	-1.39	0.07	-3.51	-3.61
C80 (dB)	5.42	-4.69	-5.12	-2.22	-2.19	-3.00	-1.79	-0.55	1.46	4.46	-1.31	-1.52
D50 (%)	63.60	21.94	16.83	30.20	30.81	27.27	27.24	34.04	42.05	50.39	30.85	30.33
Ts (ms)	117.85	270.91	247.27	210.41	190.00	208.34	173.76	133.41	87.70	57.58	158.12	165.47
EDT (s)	1.41	3.23	3.02	2.87	2.68	2.93	2.55	1.88	1.23	0.68	2.28	2.42
T20 (s)	3.26	3.74	3.28	2.95	2.92	2.90	2.63	1.93	1.22	0.57	2.54	2.75
r T20	0.98	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	3.94	4.06	3.45	2.93	2.87	2.89	2.62	1.95	1.24	0.61	2.59	2.88
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.99	3.93	3.54	2.88	2.88	2.87	2.61	2.01	1.30	0.85	2.64	3.19
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	0.99
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 11 items

Sonus Paradisi, Church, Praha sv.Bartolomej, front 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, front 7.3m LR (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, headFront 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, headFront 7.3m LR (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, headLeft 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, headRear 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, headRight 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, omni 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, omni 7.3m LR (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, rear 7.3m C (3.1s)
Sonus Paradisi, Church, Praha sv.Bartolomej, rear 7.3m LR (3.1s)

Ruj29

A collection of impulse responses of the church of sv. Jan Křtitel in Rudná (CZ). Reverberation time approx. 3 s. The IRs represent a smaller rural baroque church. 3 positions of microphones, 4 positions of the source.
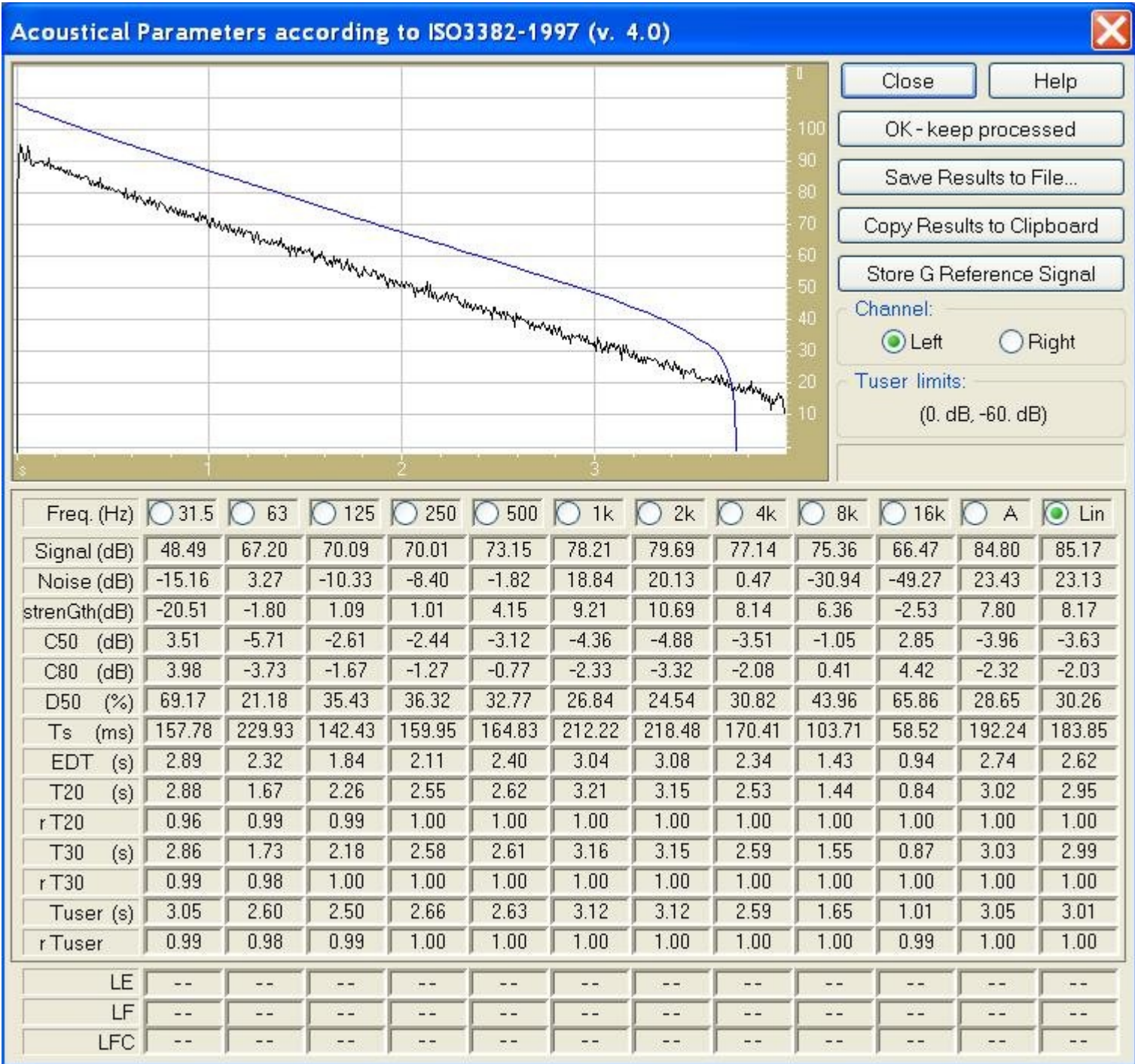
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Channel: ● Left ○ Right

Tuser limits: (0. dB, -60. dB)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	45.74	67.30	70.13	70.60	73.71	77.76	78.49	76.32	75.77	67.63	84.12	84.74
Noise (dB)	0.89	-4.81	-3.20	0.46	5.62	5.06	-6.12	-20.07	-51.28	-68.39	7.19	10.38
strenGth(dB)	-23.26	-1.70	1.13	1.60	4.71	8.76	9.49	7.32	6.77	-1.37	7.12	7.74
C50 (dB)	1.27	-2.04	-3.54	-7.16	-4.65	-3.93	-2.97	-2.26	1.43	3.01	-2.53	-2.62
C80 (dB)	3.48	0.45	-2.65	-4.51	-2.84	-1.90	-1.25	-0.14	3.42	5.44	-0.64	-0.76
D50 (%)	57.26	38.45	30.68	16.14	25.52	28.80	33.52	37.25	58.15	66.67	35.83	35.38
Ts (ms)	148.91	171.81	224.94	245.93	195.43	183.93	161.15	123.47	67.62	44.47	147.71	153.22
EDT (s)	1.93	2.11	2.96	3.32	2.74	2.66	2.35	1.79	1.06	0.68	2.20	2.29
T20 (s)	2.92	3.06	2.73	2.94	2.89	2.57	2.46	1.89	1.21	0.68	2.46	2.54
r T20	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	3.14	2.83	2.83	2.92	2.91	2.56	2.38	1.90	1.24	0.69	2.44	2.56
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.03	2.96	2.85	2.94	2.84	2.63	2.39	1.94	1.28	0.77	2.49	2.63
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 6 items
```
Sonus Paradisi, Church, Rudna J.Krtitel, omni 11m C (2.9s)
Sonus Paradisi, Church, Rudna J.Krtitel, omni 11m LR (2.9s)
Sonus Paradisi, Church, Rudna J.Krtitel, omni 11m LRw (2.9s)
Sonus Paradisi, Church, Rudna J.Krtitel, ortf 11m C (2.9s)
Sonus Paradisi, Church, Rudna J.Krtitel, ortf 11m LR (2.9s)
Sonus Paradisi, Church, Rudna J.Krtitel, ortf 11m LRw (2.9s)
```
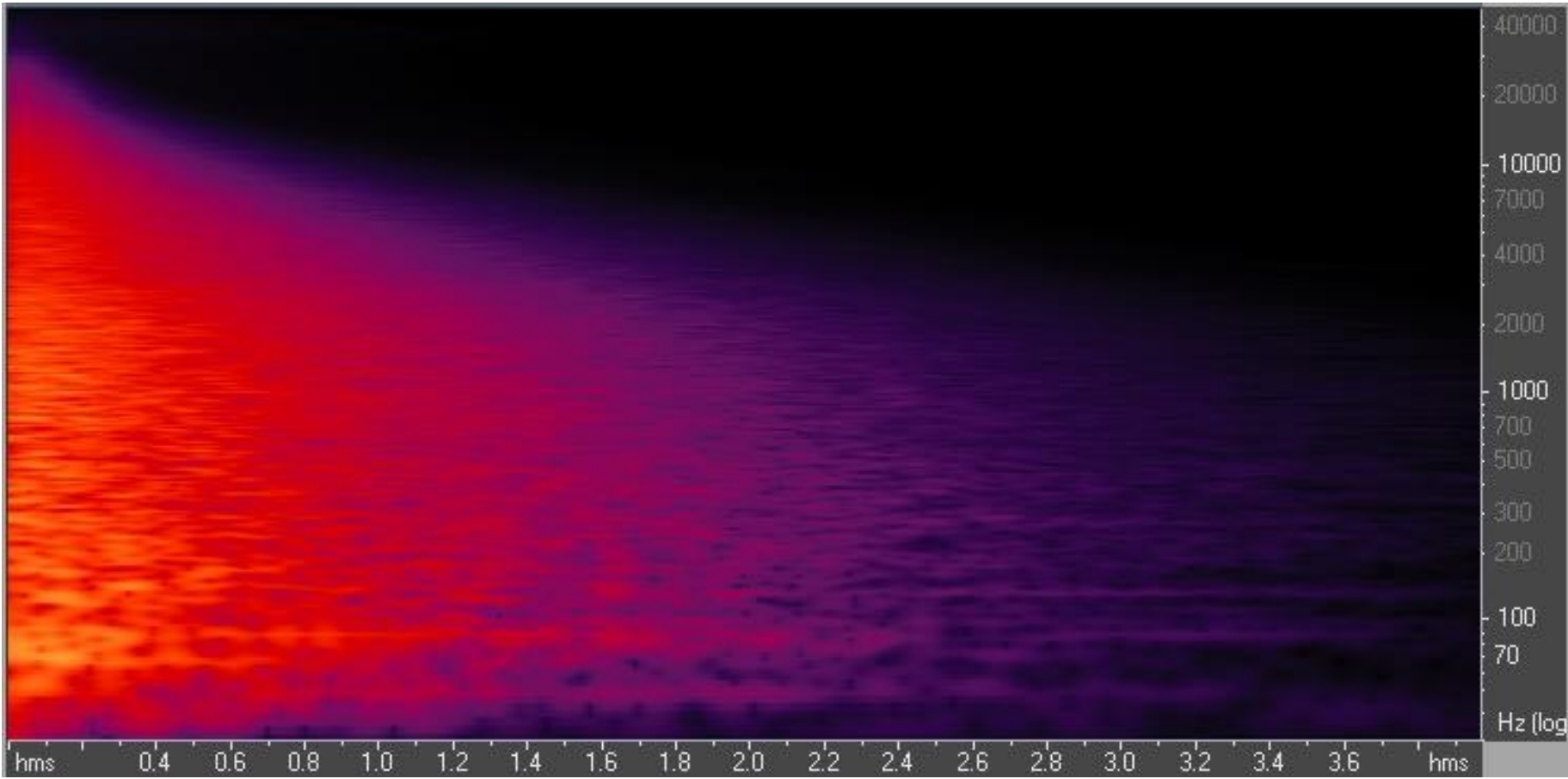
One of the Irs is a part of the Hauptwerk demo IR set, with the name:
```
HauptwerkReverb-Church08-Omni-11m-LR-2.9s
```

VCha15 - damp

An artificial true stereo IR, universal, very low resonance, high density from the start, about 3 seconds long.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	72.35	72.73	74.72	77.40	80.02	82.06	84.35	85.30	84.97	80.51	91.17	91.91
Noise (dB)	-9.45	-5.13	-0.98	4.44	9.99	11.01	7.37	-12.99	-30.33	-27.78	13.98	15.62
strenGth(dB)	3.35	3.73	5.72	8.40	11.02	13.06	15.35	16.30	15.97	11.51	14.17	14.91
C50 (dB)	1.86	0.06	-3.51	-6.22	-5.17	-3.94	-4.47	-3.87	-0.72	5.21	-3.23	-2.64
C80 (dB)	2.82	0.84	-2.44	-2.68	-2.70	-2.25	-2.91	-1.89	1.62	8.08	-1.40	-0.80
D50 (%)	60.53	50.35	30.84	19.28	23.30	28.77	26.34	29.11	45.84	76.86	32.20	35.23
Ts (ms)	157.54	180.72	214.76	222.26	210.31	219.99	202.80	164.05	89.71	33.30	166.82	158.42
EDT (s)	2.25	3.46	2.84	3.15	2.88	3.31	2.93	2.41	1.41	0.60	2.55	2.50
T20 (s)	3.16	3.43	3.32	3.25	3.58	3.52	3.09	2.36	1.23	0.53	2.92	3.00
r T20	0.99	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	3.52	3.29	3.35	3.37	3.59	3.45	3.14	2.25	1.19	0.55	3.04	3.12
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	2.71	3.78	3.07	2.89	3.49	3.51	2.98	2.30	1.35	0.54	2.68	2.71
r Tuser	0.97	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 1 item
Sonus Paradisi, Church, VCha15Damp, Artificial (3.0s)

Kar35

A large collection of IRs from the synagogue in Praha-Karlín (CZ). Reverberation time approx. 3.5 s. 9 different positions of the source, 2 mic positions.
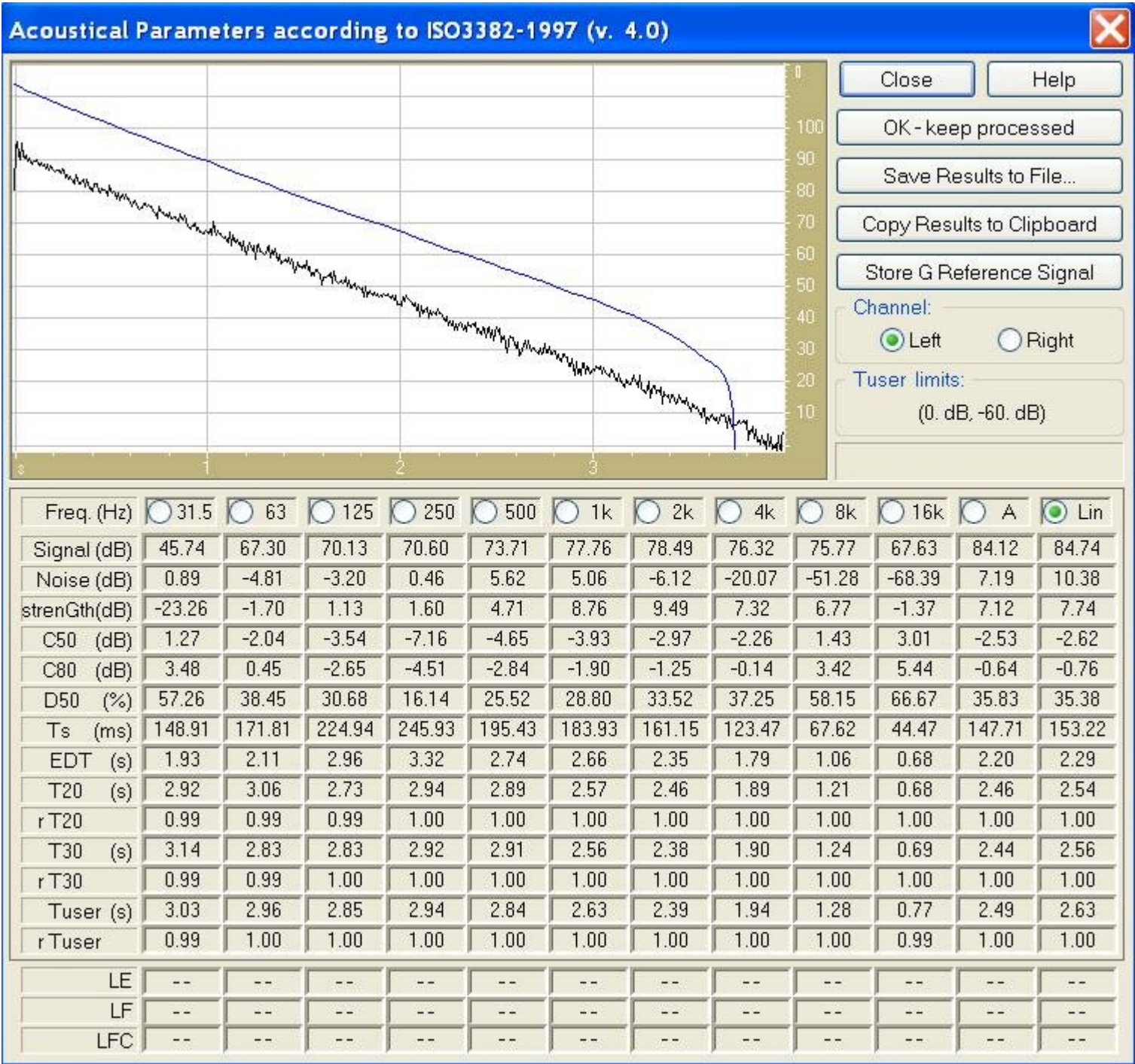
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Close	Help

OK - keep processed
Save Results to File...
Copy Results to Clipboard
Store G Reference Signal

Channel:
◉ Left   ◯ Right

Tuser limits:
(-5. dB, -15. dB)

Adobe Audition - AB_C0R_dcb

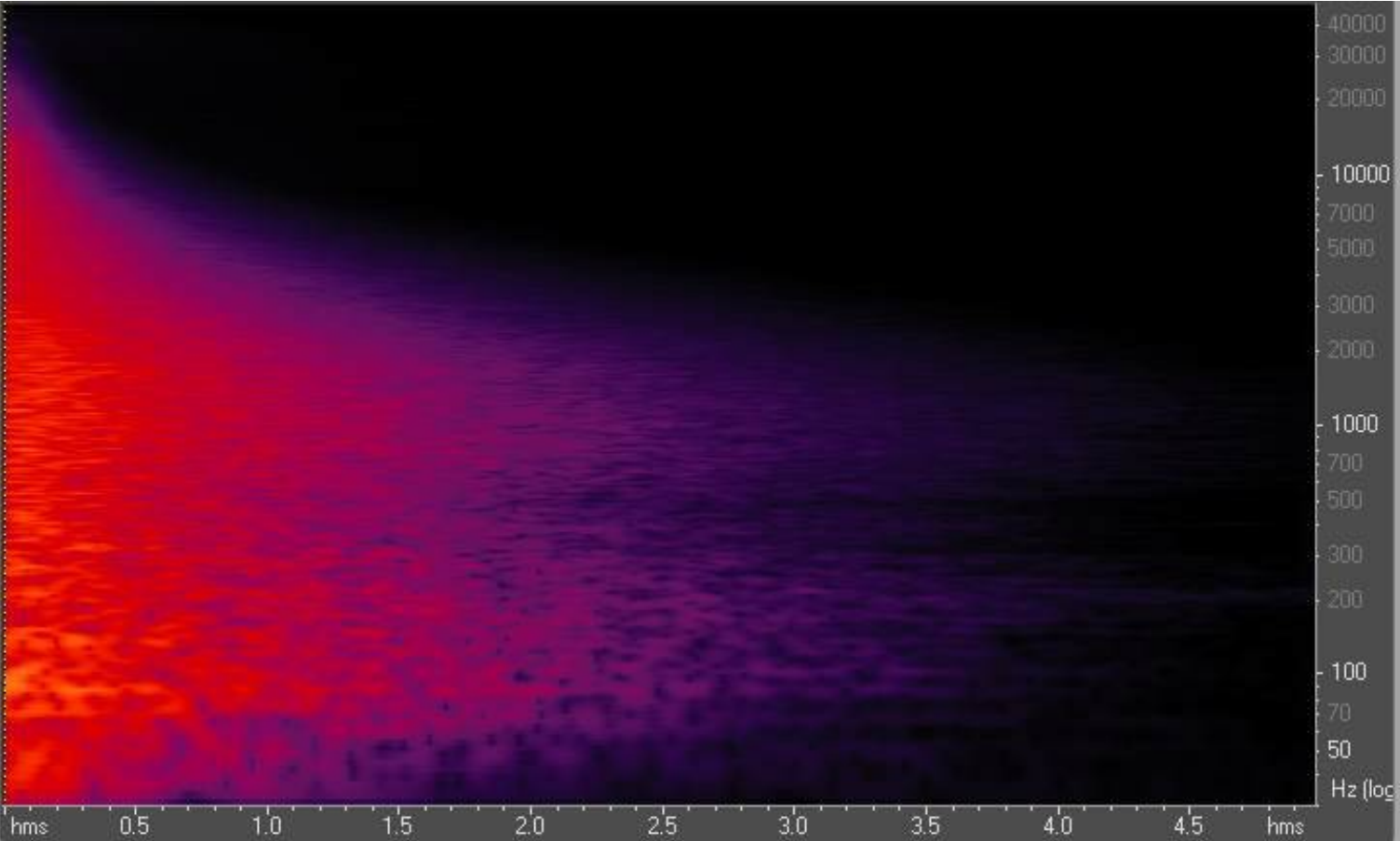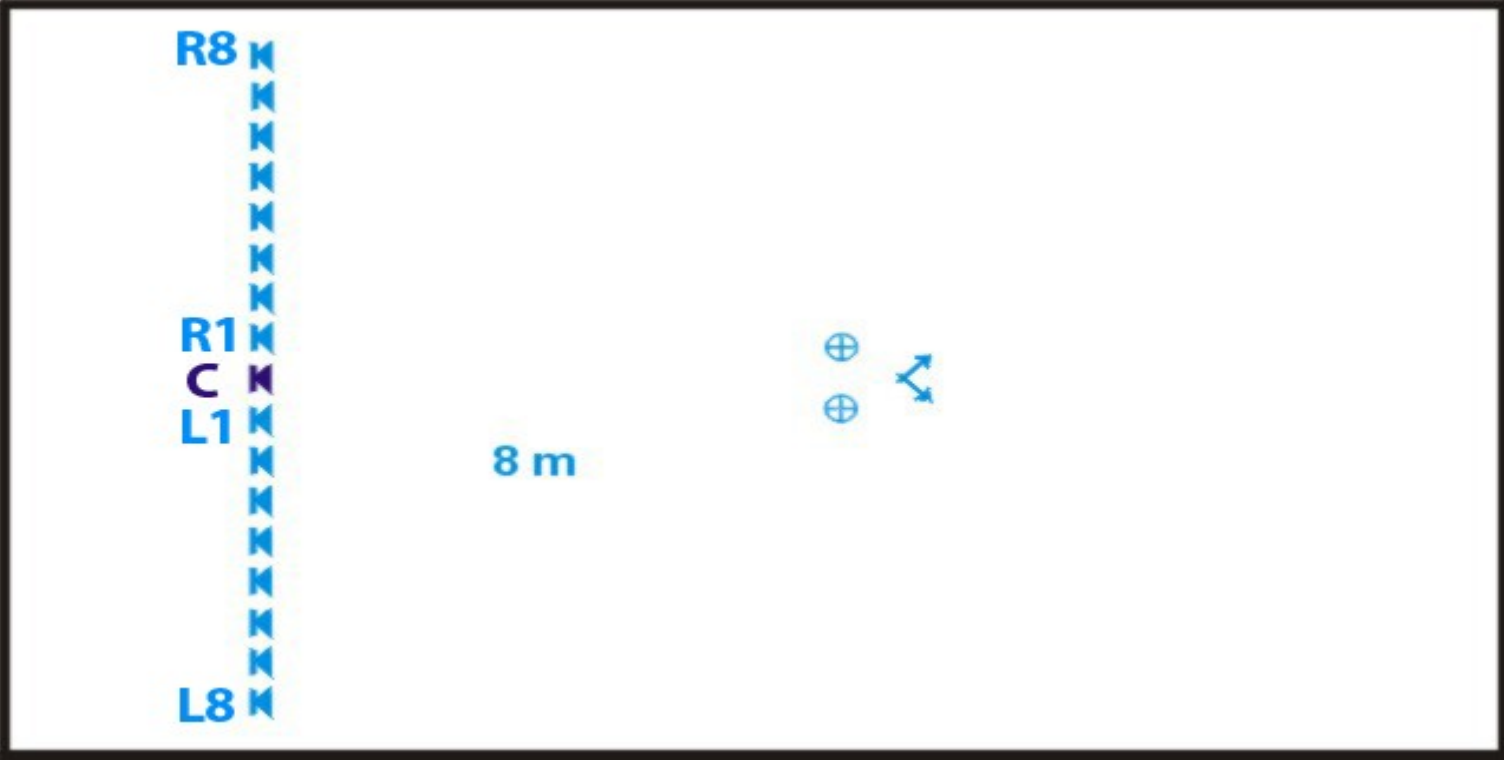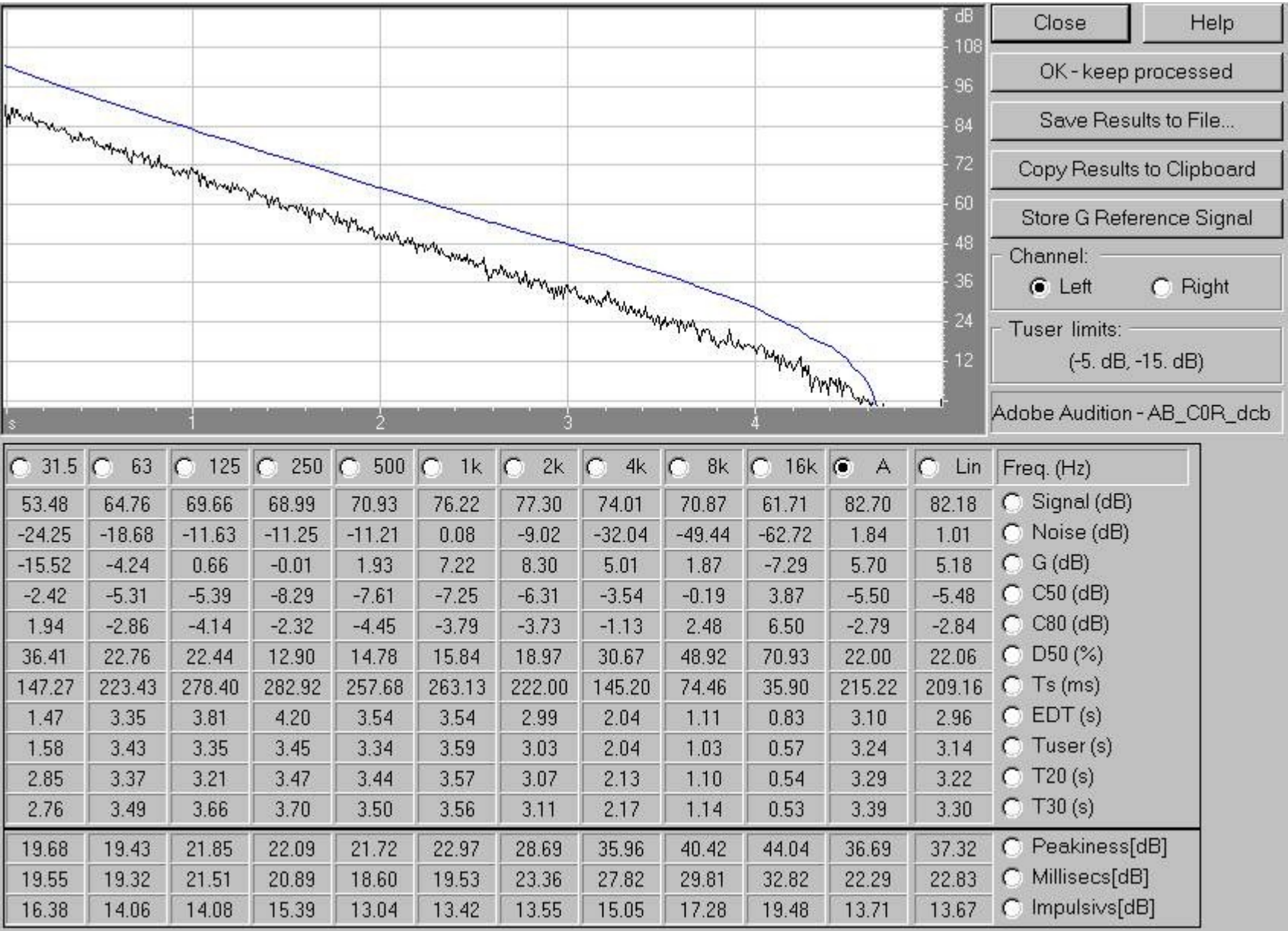| Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	53.48	64.76	69.66	68.99	70.93	76.22	77.30	74.01	70.87	61.71	82.70	82.18
Noise (dB)	-24.25	-18.68	-11.63	-11.25	-11.21	0.08	-9.02	-32.04	-49.44	-62.72	1.84	1.01
G (dB)	-15.52	-4.24	0.66	-0.01	1.93	7.22	8.30	5.01	1.87	-7.29	5.70	5.18
C50 (dB)	-2.42	-5.31	-5.39	-8.29	-7.61	-7.25	-6.31	-3.54	-0.19	3.87	-5.50	-5.48
C80 (dB)	1.94	-2.86	-4.14	-2.32	-4.45	-3.79	-3.73	-1.13	2.48	6.50	-2.79	-2.84
D50 (%)	36.41	22.76	22.44	12.90	14.78	15.84	18.97	30.67	48.92	70.93	22.00	22.06
Ts (ms)	147.27	223.43	278.40	282.92	257.68	263.13	222.00	145.20	74.46	35.90	215.22	209.16
EDT (s)	1.47	3.35	3.81	4.20	3.54	3.54	2.99	2.04	1.11	0.83	3.10	2.96
Tuser (s)	1.58	3.43	3.35	3.45	3.34	3.59	3.03	2.04	1.03	0.57	3.24	3.14
T20 (s)	2.85	3.37	3.21	3.47	3.44	3.57	3.07	2.13	1.10	0.54	3.29	3.22
T30 (s)	2.76	3.49	3.66	3.70	3.50	3.56	3.11	2.17	1.14	0.53	3.39	3.30
Peakiness[dB]	19.68	19.43	21.85	22.09	21.72	22.97	28.69	35.96	40.42	44.04	36.69	37.32
Millisecs[dB]	19.55	19.32	21.51	20.89	18.60	19.53	23.36	27.82	29.81	32.82	22.29	22.83
Impulsivs[dB]	16.38	14.06	14.08	15.39	13.04	13.42	13.55	15.05	17.28	19.48	13.71	13.67

List of IRs in the collection - 33 items
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m C (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR1 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR1var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR2 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR2var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR3 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR3var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR4 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR4var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR5 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR5var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR6 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR6var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR7 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR7var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR8 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, omni 8m LR8var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m C (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR1 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR1var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR2 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR2var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR3 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR3var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR4 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR4var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR5 (3.6s)

(List of IRs cont.)

```
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR5var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR6 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR6var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR7 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR7var (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR8 (3.6s)
Sonus Paradisi, Synagogue, Praha Karlin, rear 8m LR8var (3.6s)
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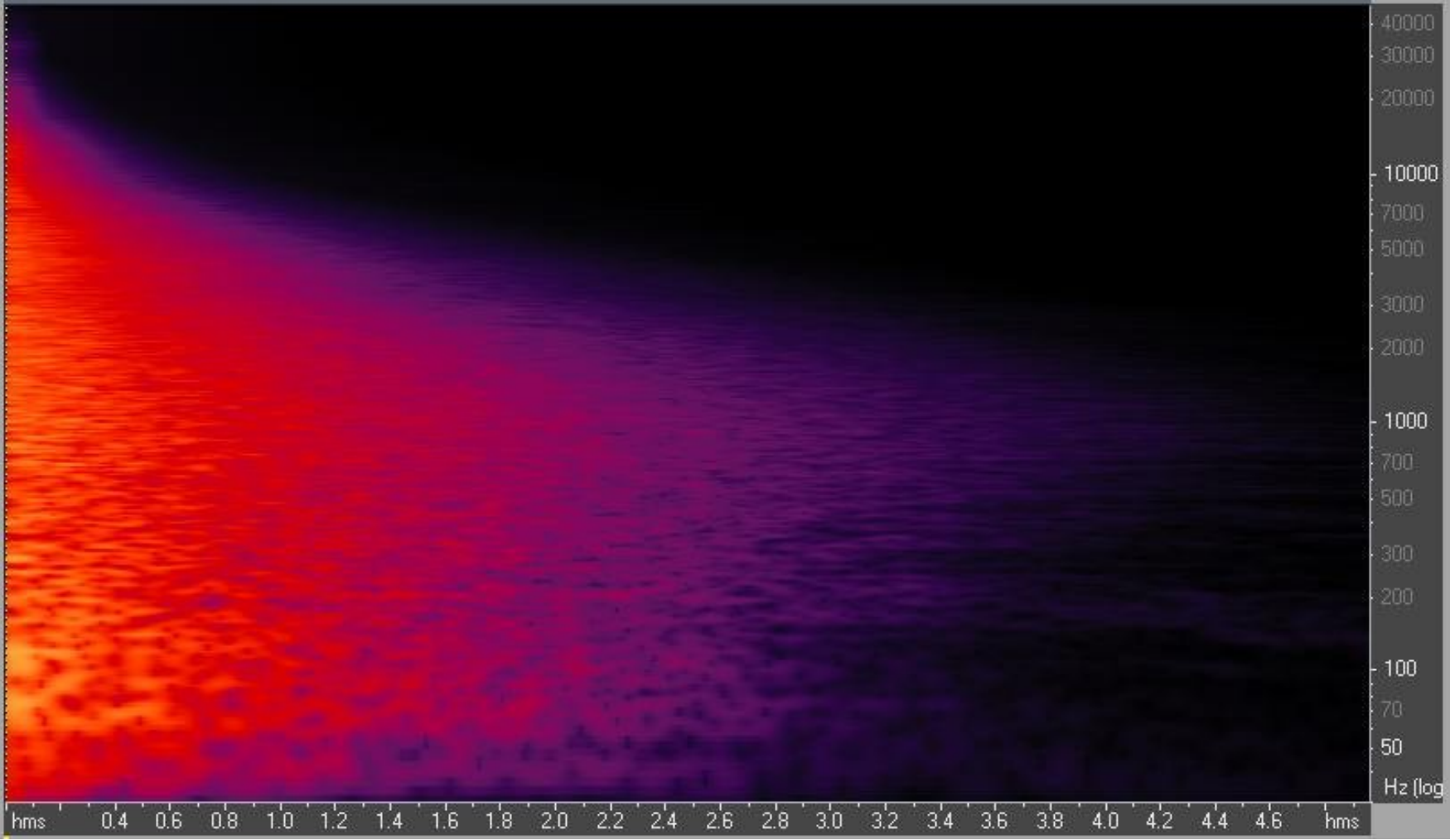
Two IRs of this collection are a part of the Hauptwerk demo IR set, with the names:

```
HauptwerkReverb-Synagogue01-Omni-8m-LR2-3.6s
HauptwerkReverb-Synagogue01-RearFacingCardoid-8m-LR2-3.6s
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PhI36

A collection of impulse responses of the church of sv. Havel of Prague (CZ). Reverberation time approx. 3.5 s. The IRs represent a church with side aisles. Four microphone techniques and 4 positions of the source available.

Time/Frequency graph

Source and microphone locations (scheme)

14 m

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	○ 31.5	○ 63	○ 125	○ 250	○ 500	○ 1k	○ 2k	○ 4k	○ 8k	○ 16k	○ A	● Lin
Signal (dB)	49.68	66.77	71.32	71.28	74.15	77.96	79.56	78.68	76.46	66.75	85.23	85.67
Noise (dB)	-26.66	-28.85	-32.27	-24.16	-12.53	-8.74	-23.17	-48.87	-67.03	-68.00	-8.08	-6.51
strenGth(dB)	-19.32	-2.23	2.32	2.28	5.15	8.96	10.56	9.68	7.46	-2.25	8.23	8.67
C50 (dB)	-3.01	1.86	-0.87	-4.33	-8.50	-6.15	-4.34	-2.63	2.18	9.88	-3.46	-3.30
C80 (dB)	-2.06	2.62	0.06	-3.45	-4.41	-4.51	-2.61	-0.81	3.95	11.63	-1.78	-1.68
D50 (%)	33.34	60.54	45.01	26.93	12.38	19.53	26.91	35.30	62.31	90.68	31.08	31.89
Ts (ms)	207.34	169.80	188.98	248.13	252.17	257.72	192.12	128.82	61.86	16.72	174.79	178.99
EDT (s)	2.32	2.64	2.62	3.28	3.19	3.29	2.76	1.79	0.99	0.27	2.52	2.61
T20 (s)	2.81	3.34	2.83	3.19	3.34	3.34	2.88	1.94	1.15	0.62	2.97	3.05
r T20	0.95	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
T30 (s)	2.90	3.14	3.01	3.24	3.46	3.42	2.89	2.00	1.17	0.62	3.08	3.15
r T30	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.08	2.73	2.83	3.13	3.39	3.41	2.94	2.09	1.22	0.79	3.12	3.15
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 8 items
```
Sonus Paradisi, Church, Praha sv.Havel, cardio 14m C (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, cardio 14m LR (3.6s
Sonus Paradisi, Church, Praha sv.Havel, omni 14m C (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, omni 14m LR (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, omniW 14m C (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, omniW 14m LR (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, rear 14m C (3.6s)
Sonus Paradisi, Church, Praha sv.Havel, rear 14m LR (3.6s)
```

One IR is a part of the Hauptwerk demo IR set, with the name:
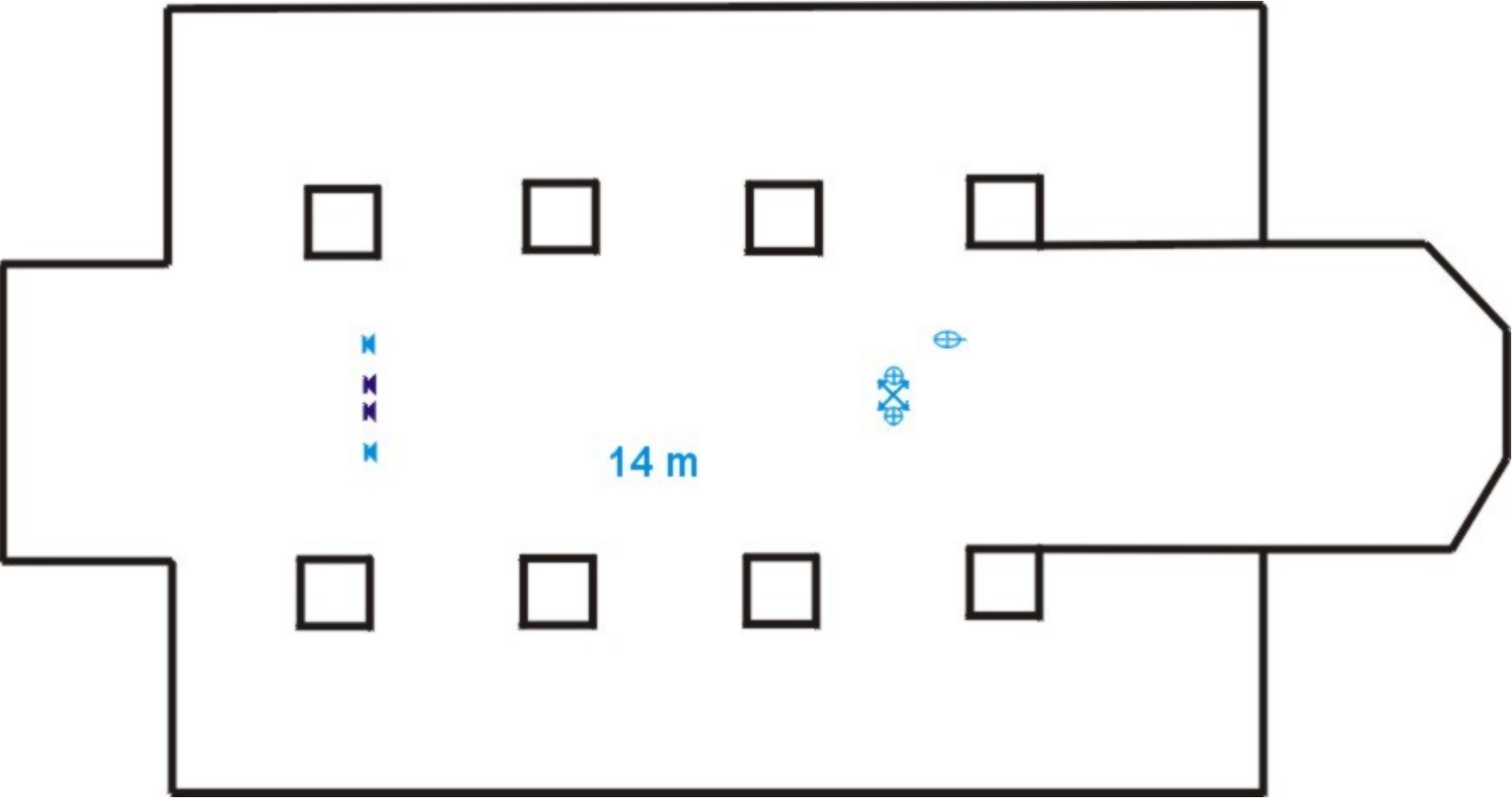```
HauptwerkReverb-Church06-ORTF-14m-LR-3.6s
```

# Pjan38

A collection of impulse responses of the church of Sv. Jan in Praha-Chuchle (CZ). Reverberation time approx. 4 s. The IRs represent a small baroque church with a vault. Four microphone techniques and 3 positions of the source available.
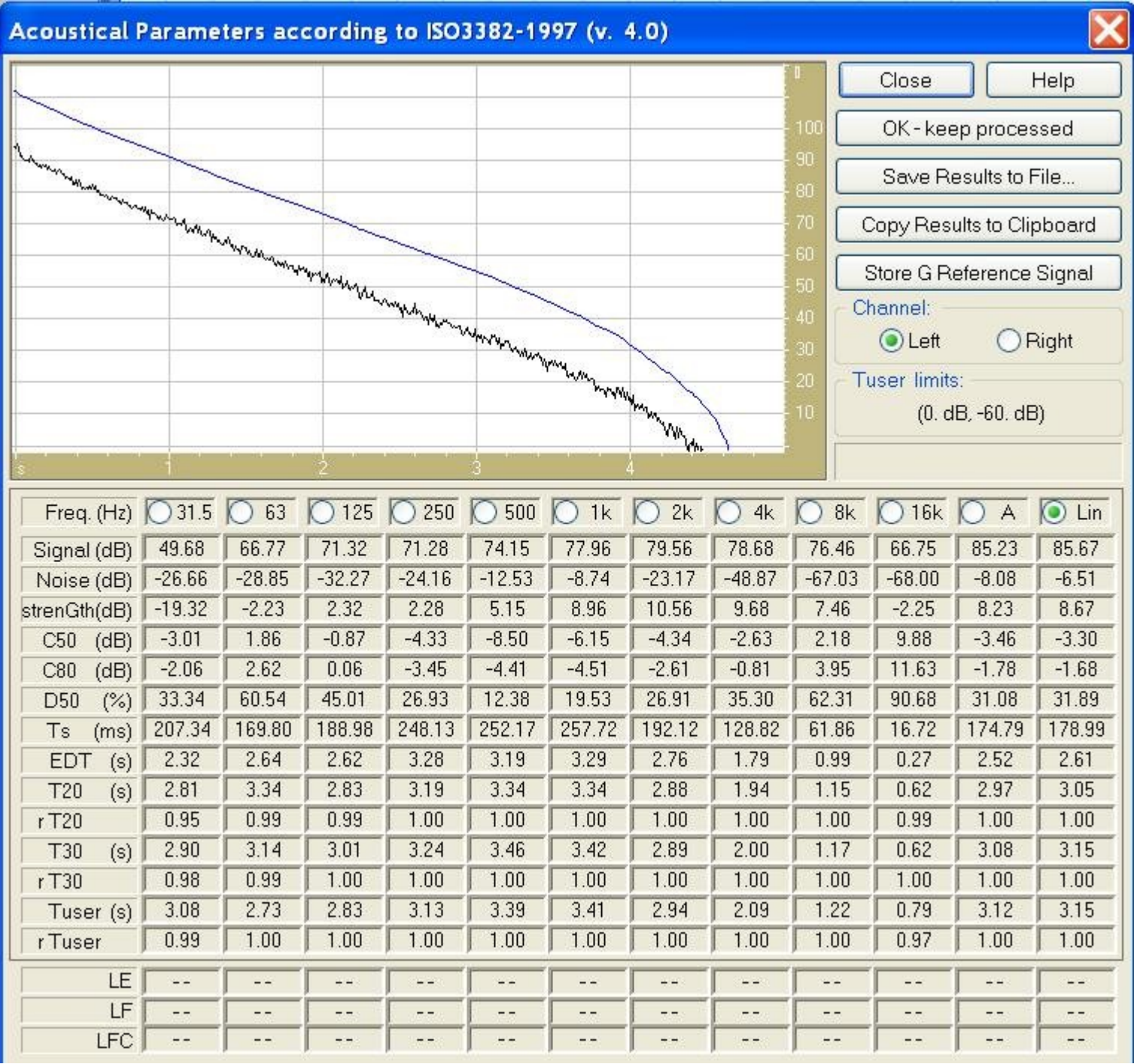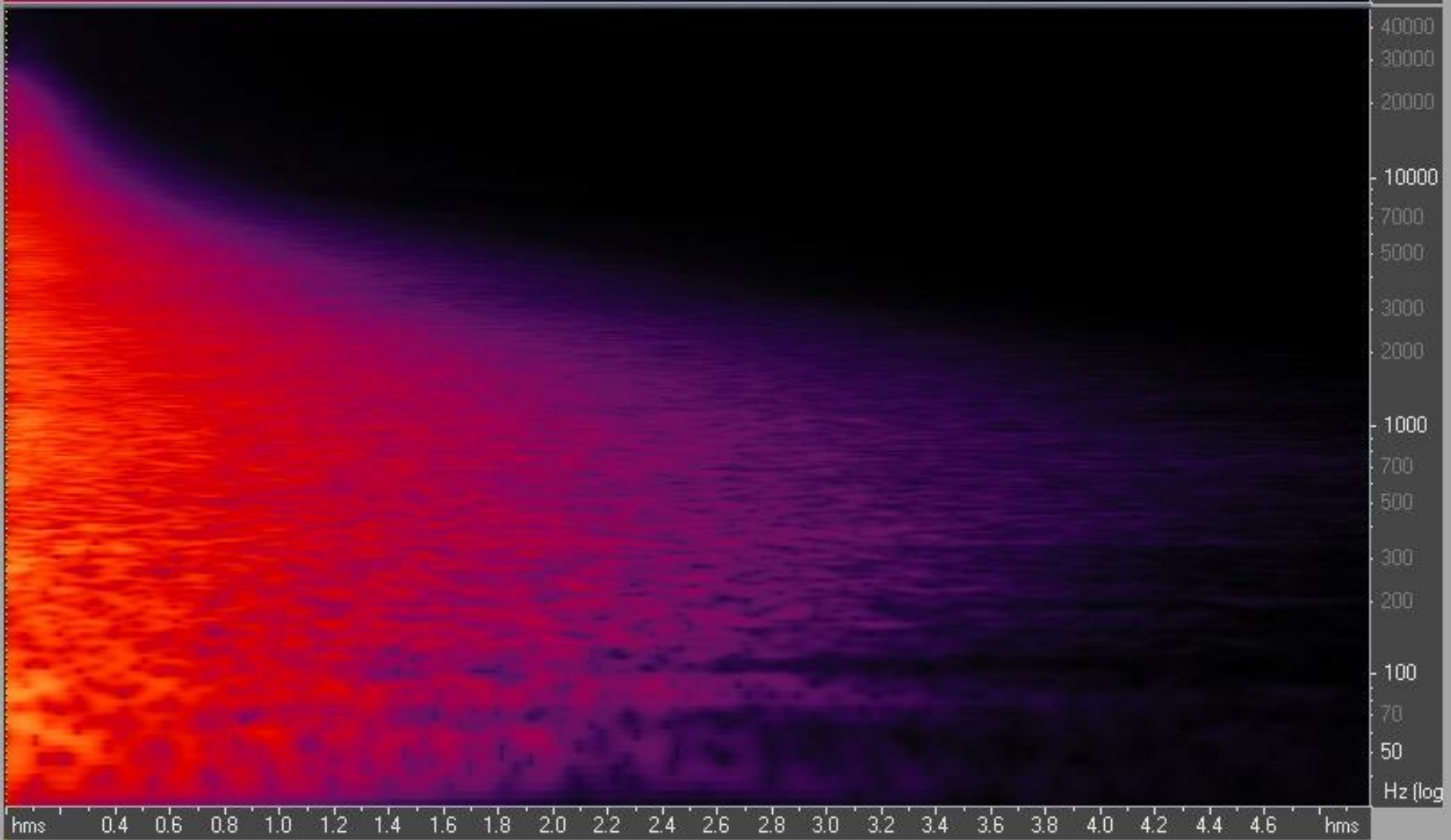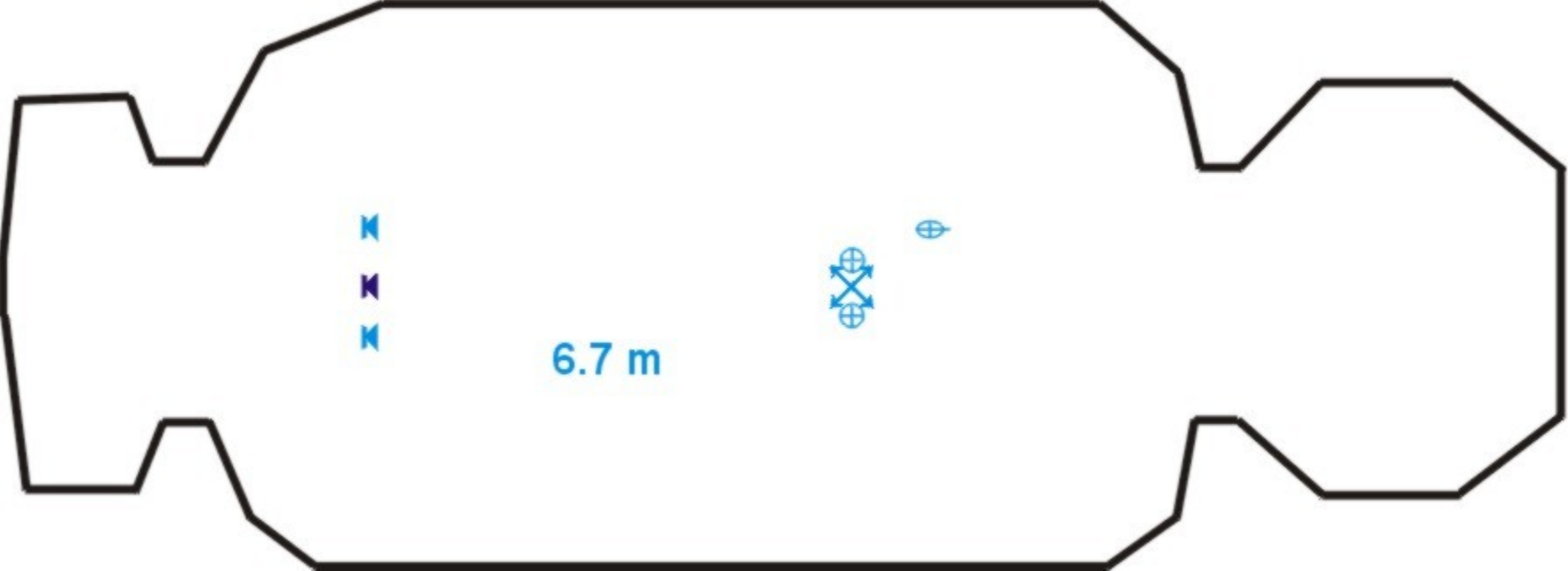
**Time/Frequency graph**



**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**



Acoustical Parameters according to ISO3382-1997 (v. 4.0)

| Close | Help |
| --- | --- |
| | OK - keep processed |
| | Save Results to File... |
| | Copy Results to Clipboard |
| | Store G Reference Signal |

Channel: ● Left ○ Right

Tuser limits: (0. dB, -60. dB)

| Freq. (Hz) | ○ 31.5 | ○ 63 | ○ 125 | ○ 250 | ○ 500 | ○ 1k | ○ 2k | ○ 4k | ○ 8k | ○ 16k | ○ A | ● Lin |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Signal (dB) | 52.88 | 65.69 | 67.00 | 70.58 | 73.01 | 77.23 | 78.00 | 77.41 | 74.74 | 63.48 | 83.91 | 84.33 |
| Noise (dB) | -30.86 | -26.36 | -23.10 | -13.52 | -0.97 | -1.63 | -19.80 | -48.53 | -63.86 | -68.07 | 0.16 | 2.27 |
| strenGth(dB) | -16.12 | -3.31 | -2.00 | 1.58 | 4.01 | 8.23 | 9.00 | 8.41 | 5.74 | -5.52 | 6.91 | 7.33 |
| C50 (dB) | -0.07 | -1.73 | -5.01 | -3.16 | -5.85 | -5.36 | -4.03 | -1.06 | 1.14 | 1.04 | -2.82 | -2.91 |
| C80 (dB) | 0.29 | 0.54 | -4.02 | -1.41 | -3.72 | -3.18 | -2.22 | 0.60 | 3.20 | 3.57 | -1.07 | -1.13 |
| D50 (%) | 49.58 | 40.18 | 23.99 | 32.58 | 20.65 | 22.54 | 28.35 | 43.96 | 56.54 | 55.95 | 34.34 | 33.87 |
| Ts (ms) | 190.19 | 170.48 | 255.50 | 231.74 | 276.77 | 231.89 | 188.13 | 112.81 | 68.80 | 52.01 | 166.10 | 173.70 |
| EDT (s) | 2.73 | 2.36 | 3.57 | 3.41 | 4.03 | 3.40 | 2.83 | 1.67 | 1.02 | 0.65 | 2.56 | 2.69 |
| T20 (s) | 2.85 | 3.19 | 3.44 | 3.83 | 3.76 | 3.51 | 2.92 | 1.90 | 1.11 | 0.49 | 3.14 | 3.29 |
| r T20 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.99 | 1.00 | 1.00 |
| T30 (s) | 2.91 | 3.08 | 3.61 | 3.83 | 3.85 | 3.54 | 2.92 | 1.96 | 1.15 | 0.54 | 3.19 | 3.38 |
| r T30 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Tuser (s) | 2.86 | 2.92 | 3.41 | 3.40 | 3.74 | 3.46 | 2.94 | 2.03 | 1.21 | 0.79 | 3.24 | 3.36 |
| r Tuser | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.97 | 1.00 | 1.00 |
| LE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| LF | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| LFC | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Source and microphone locations (scheme)**



6.7 m

**List of IRs in the collection - 8 items**

```
Sonus Paradisi, Church, Chuchle sv.Jan, cardio 6.7m C (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, cardio 6.7m LR (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, omni 6.7m C (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, omni 6.7m LR (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, omniW 6.7m C (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, omniW 6.7m LR (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, rear 6.7m C (3.8s)
Sonus Paradisi, Church, Chuchle sv.Jan, rear 6.7m LR (3.8s)
```

3 IRs from this collection are a part of the Hauptwerk demo IR set, with the names:
```
HauptwerkReverb-Church01-Omni-6.7m-LR-3.8s
HauptwerkReverb-Church01-ORTF-6.7m-LR-3.8s
HauptwerkReverb-Church01-RearFacingCardoid-6.7m-LR-3.8s
```

Iz39

A collection of impulse responses of the church of St. Marije Alietske in Izola (SLO). Featuring the acoustics of a small size church with a dome and with no windows, approx. 3.9 s long. 2 microphone positions, 5 source positions.
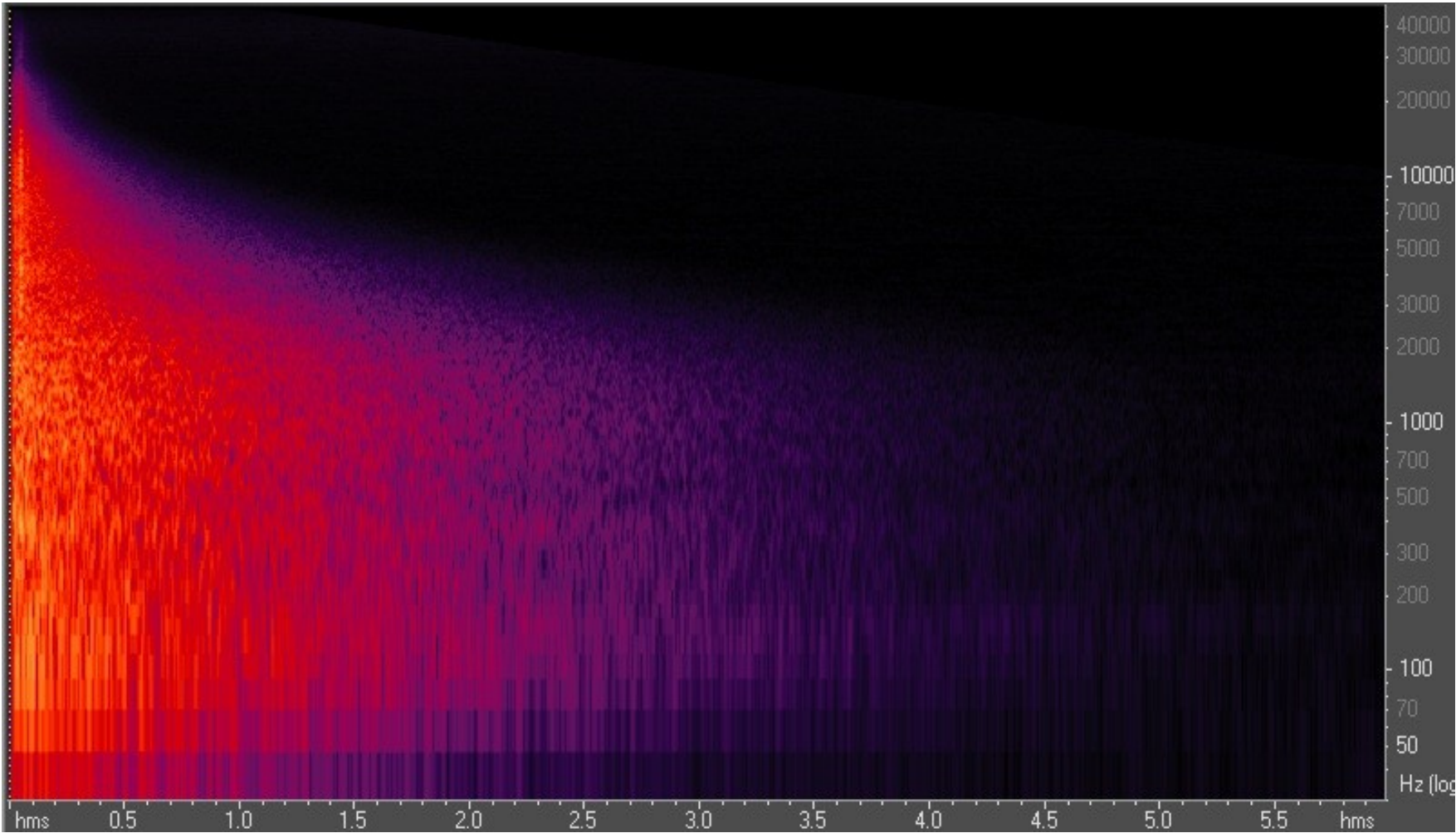
Time/Frequency graph

Scheme of the source and microphone locations

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	40.48	58.12	66.60	67.77	70.42	75.18	75.91	74.79	75.12	68.22	82.57	82.00	Signal (dB)
	-10.14	-8.93	0.70	-5.36	-4.58	-3.36	-2.21	-3.64	-2.30	-14.98	6.56	4.00	Noise (dB)
	-28.52	-10.88	-2.40	-1.23	1.42	6.18	6.91	5.79	6.12	-0.78	5.57	5.00	G (dB)
	0.81	-2.28	-6.15	-8.16	-4.63	-5.79	-3.17	-0.54	3.73	7.36	-1.68	-1.83	C50 (dB)
	1.77	-1.41	-5.30	-6.61	-3.18	-4.29	-2.03	1.04	5.68	10.81	-0.41	-0.54	C80 (dB)
	54.68	37.16	19.53	13.26	25.62	20.85	32.52	46.68	70.26	84.47	40.47	39.60	D50 (%)
	150.59	245.50	304.40	274.73	255.69	257.60	213.44	116.04	52.97	30.62	172.74	172.34	Ts (ms)
	2.16	3.69	3.54	3.49	3.79	3.45	3.32	1.94	0.90	0.37	2.98	2.93	EDT (s)
	1.81	3.53	3.75	3.93	3.87	3.51	3.13	2.06	1.11	0.57	3.18	3.10	Tuser (s)
	2.68	3.27	3.87	3.82	3.99	3.47	3.20	2.17	1.10	0.58	3.39	3.26	T20 (s)
	2.70	3.51	4.07	3.97	3.86	3.54	3.18	2.27	1.16	0.59	3.46	3.31	T30 (s)
	21.31	20.53	19.34	23.77	23.84	24.56	26.50	35.59	35.26	37.92	35.39	35.25	Peakiness[dB]
	21.20	20.34	18.79	21.61	20.67	20.60	21.16	28.52	28.02	27.88	25.63	25.25	Millisecs[dB]
	17.14	16.07	13.65	15.88	14.83	14.31	16.26	18.48	20.20	21.08	17.45	17.52	Impulsivs[dB]

List of IRs in the collection - 6 items
```
Sonus Paradisi, Church, Izola Marije, omni 9m C (3.9s)
Sonus Paradisi, Church, Izola Marije, omni 9m LR (3.9s)
Sonus Paradisi, Church, Izola Marije, omni 9m LRw (3.9s)
Sonus Paradisi, Church, Izola Marije, rear 9m C (3.9s)
Sonus Paradisi, Church, Izola Marije, rear 9m LR (3.9s)
Sonus Paradisi, Church, Izola Marije, rear 9m LRw (3.9s)
```

One IR is a part of the Hauptwerk demo IR set, with the name:
```
HauptwerkReverb-Church03-Omni-9m-WideLR-3.9s
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Frb40

A large collection of impulse responses of the church of St. Petri in Freiberg (DE). Reverberation time approx. 3,5 s. There are three groups of IRs, each recorded at a different distance between the source to the microphones (5m, 7.5m and 13m). Within each group, you will find 4 different microphone techniques used and 3 different locations of the source. You may want to combine IRs from different groups to achieve spatial difference in the virtual location of various divisions of your virtual organ.
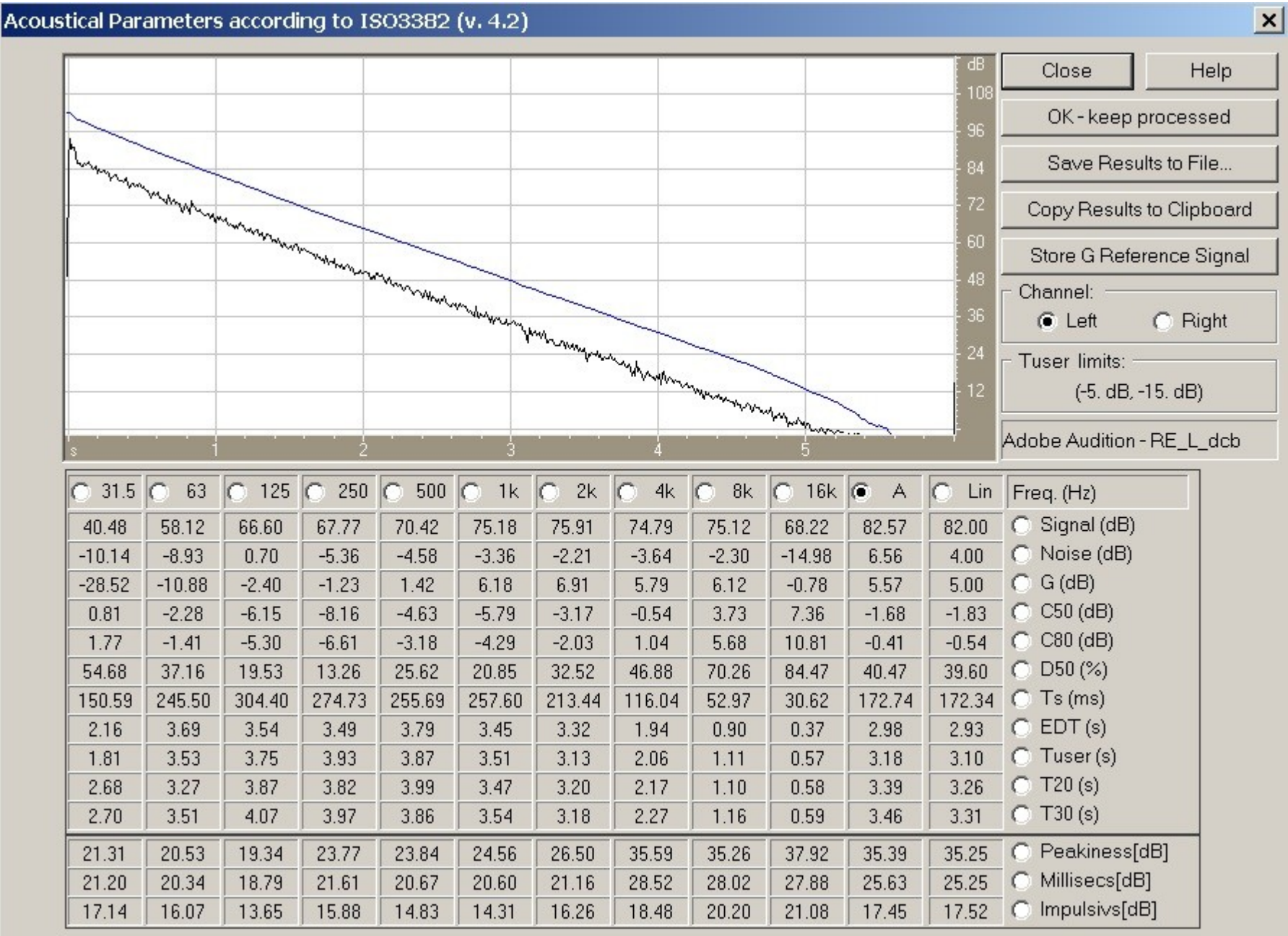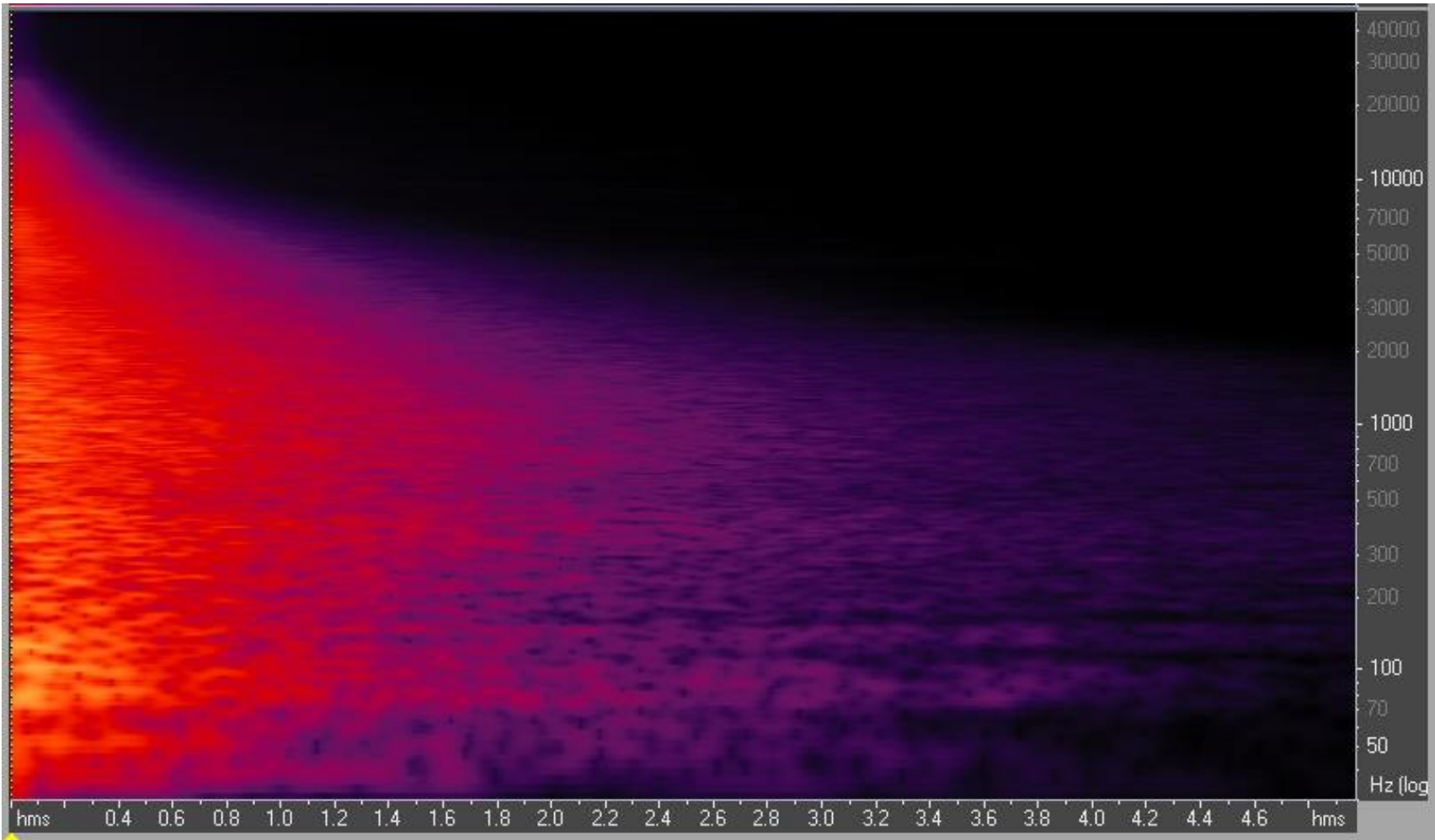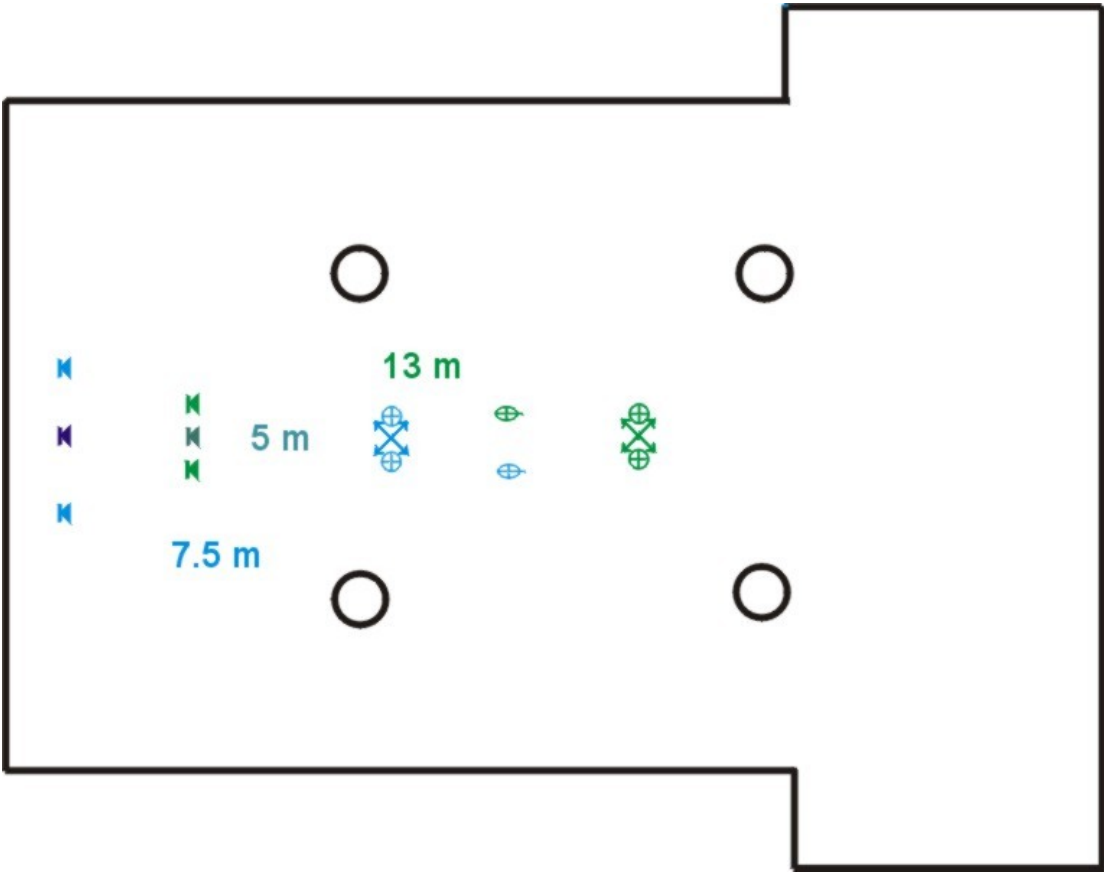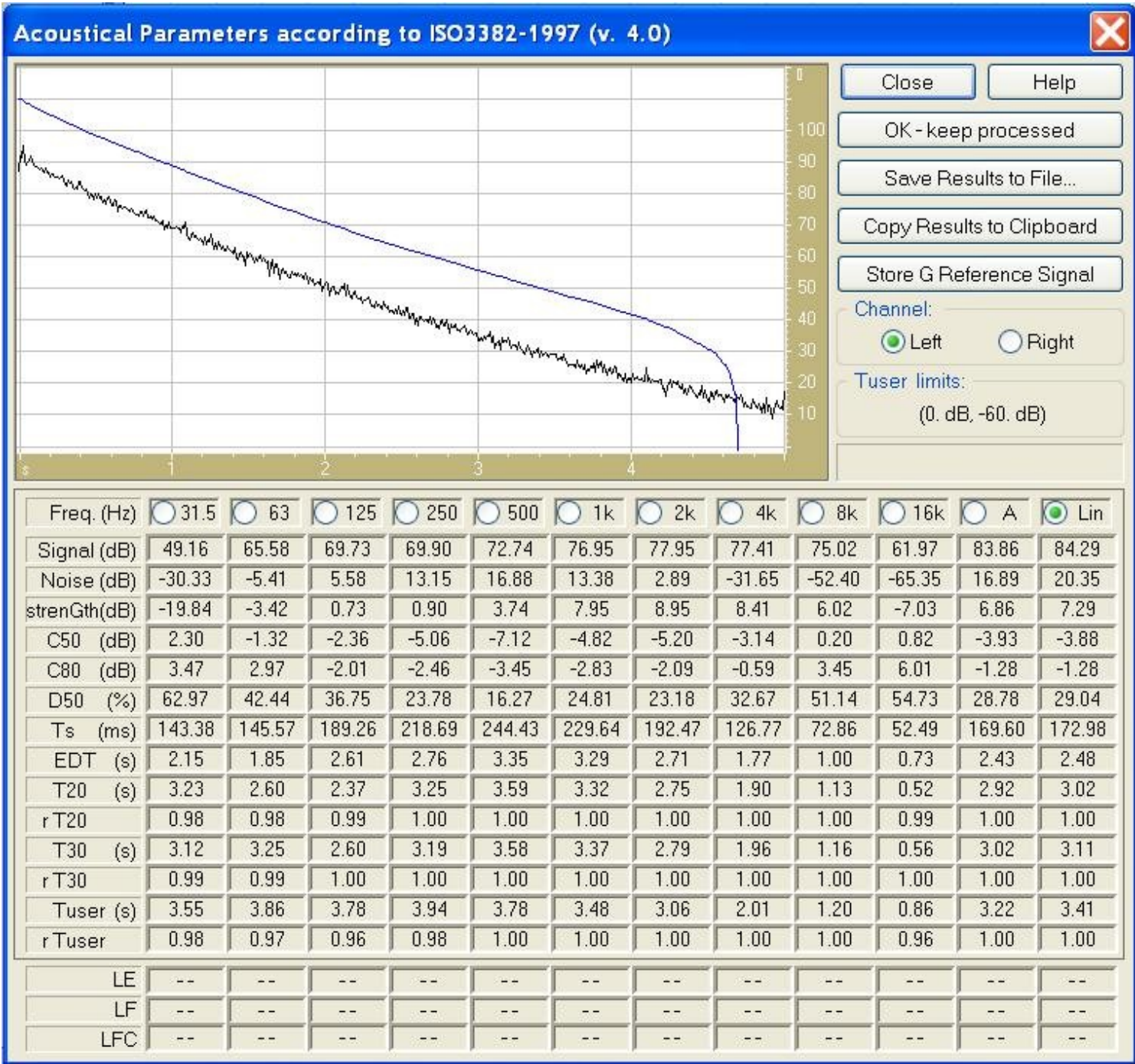
Time/Frequency graph

Scheme of the source and microphone locations

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	49.16	65.58	69.73	69.90	72.74	76.95	77.95	77.41	75.02	61.97	83.86	84.29
Noise (dB)	-30.33	-5.41	5.58	13.15	16.88	13.38	2.89	-31.65	-52.40	-65.35	16.89	20.35
strenGth(dB)	-19.84	-3.42	0.73	0.90	3.74	7.95	8.95	8.41	6.02	-7.03	6.86	7.29
C50 (dB)	2.30	-1.32	-2.36	-5.06	-7.12	-4.82	-5.20	-3.14	0.20	0.82	-3.93	-3.88
C80 (dB)	3.47	2.97	-2.01	-2.46	-3.45	-2.83	-2.09	-0.59	3.45	6.01	-1.28	-1.28
D50 (%)	62.97	42.44	36.75	23.78	16.27	24.81	23.18	32.67	51.14	54.73	28.78	29.04
Ts (ms)	143.38	145.57	189.26	218.69	244.43	229.64	192.47	126.77	72.86	52.49	169.60	172.98
EDT (s)	2.15	1.85	2.61	2.76	3.35	3.29	2.71	1.77	1.00	0.73	2.43	2.48
T20 (s)	3.23	2.60	2.37	3.25	3.59	3.32	2.75	1.90	1.13	0.52	2.92	3.02
r T20	0.98	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
T30 (s)	3.12	3.25	2.60	3.19	3.58	3.37	2.79	1.96	1.16	0.56	3.02	3.11
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.55	3.86	3.78	3.94	3.78	3.48	3.06	2.01	1.20	0.86	3.22	3.41
r Tuser	0.98	0.97	0.96	0.98	1.00	1.00	1.00	1.00	1.00	0.96	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection – 24 items

Sonus Paradisi, Church, Freiberg St.Petri, cardio 13m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, cardio 13m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, cardio 5m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, cardio 5m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, cardio 7m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, cardio 7m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 13m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 13m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 5m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 5m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 7m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, jecklin 7m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 13m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 13m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 5m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 5m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 7m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, omni 7m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, rear 13m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, rear 13m LR (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, rear 5m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, rear 5m LR (4.0s)

```
Sonus Paradisi, Church, Freiberg St.Petri, rear 7m C (4.0s)
Sonus Paradisi, Church, Freiberg St.Petri, rear 7m LR (4.0s)
```
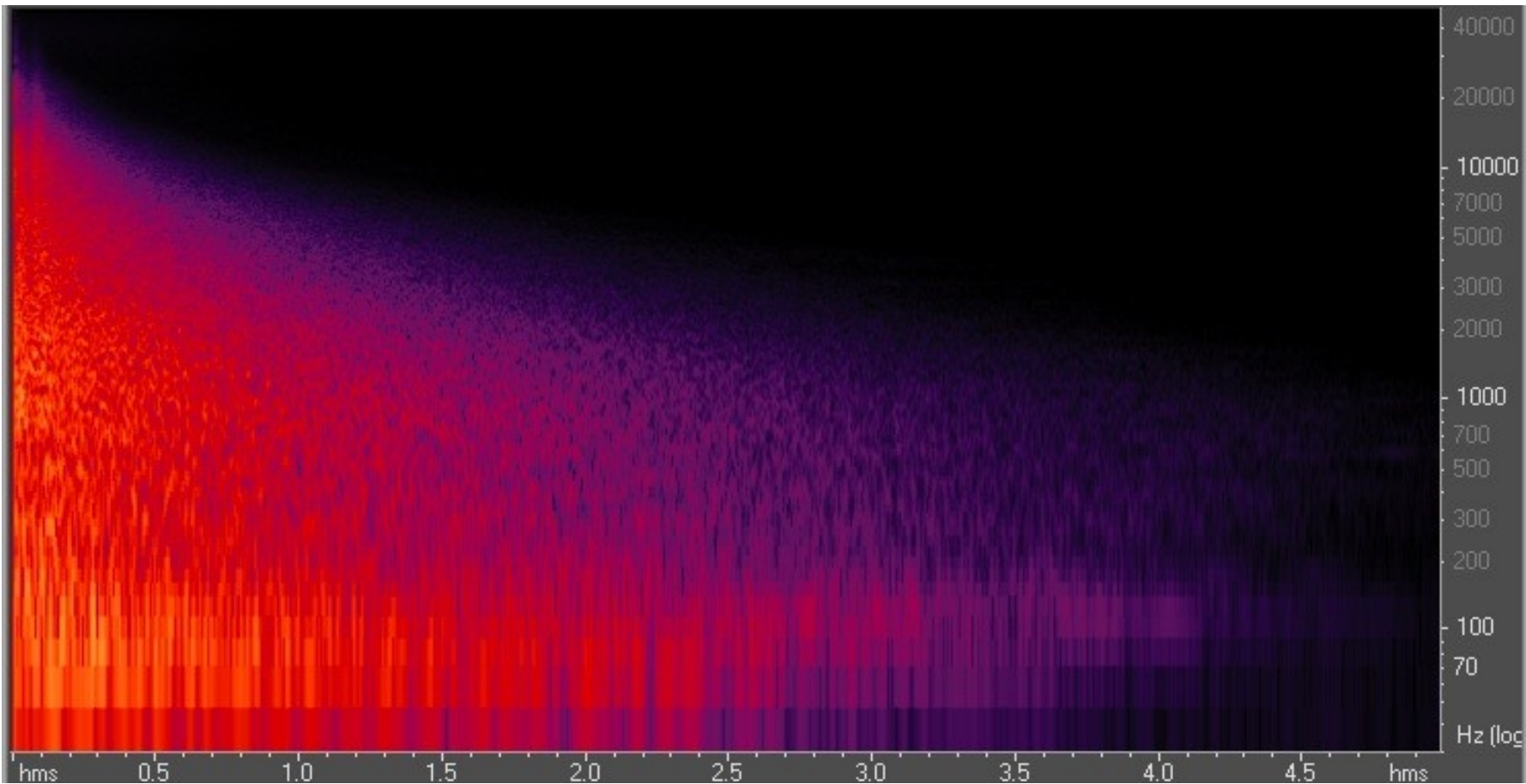
One IR is a part of the Hauptwerk demo IR set, with the name:
```
HauptwerkReverb-Church02-ORTF-5m-LR-4.0s
```
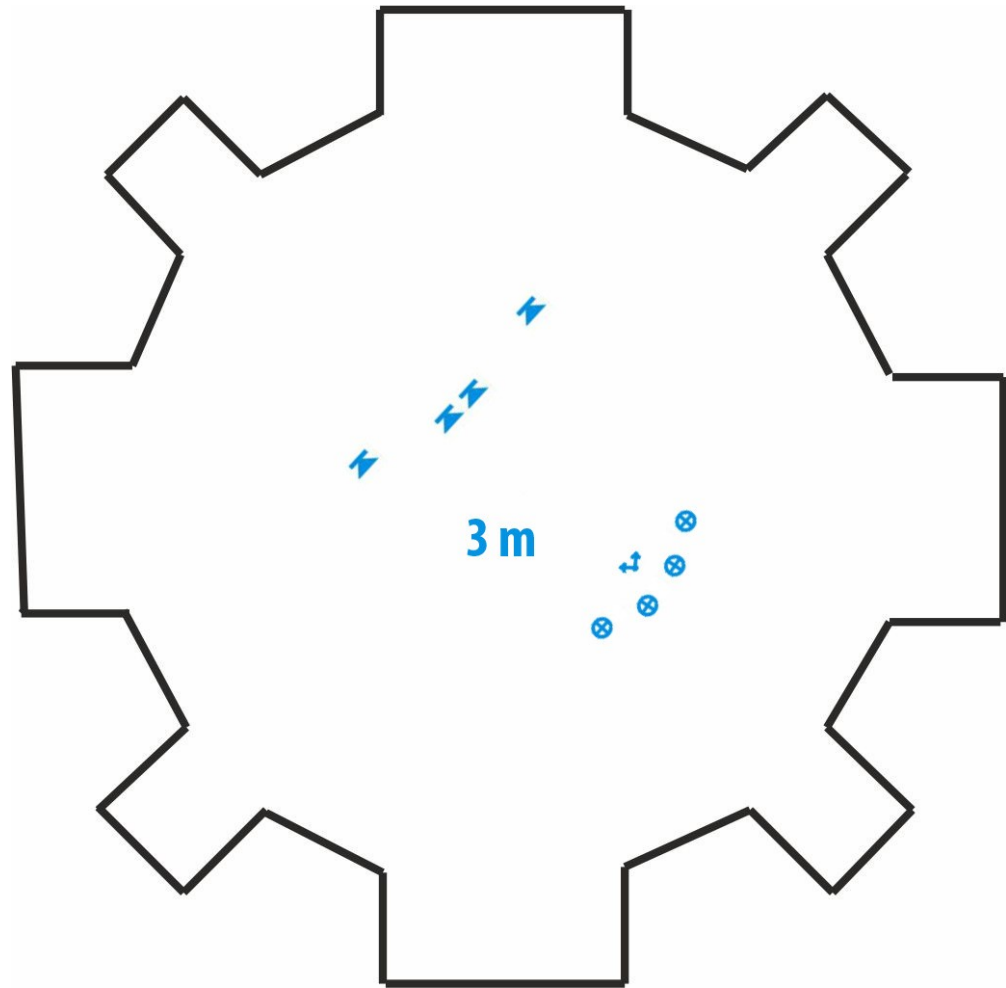
JHro43

A large collection of impulse responses of the Rondel Hall in the castle of Jindřichův Hradec (CZ). Featuring the acoustics of a Rococco Rondel, suitable for chamber music, approx. 4.3 s long. 3 microphone positions, 4 source positions.

Time/Frequency graph

Scheme of the source and microphone locations

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382 (v. 4.2)

Channel: ⦿ Left ○ Right

Tuser limits: (-5. dB, -15. dB)

Adobe Audition - AB1_R_dcb

31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
42.66	65.59	67.87	66.20	67.69	71.99	71.97	69.34	67.91	60.74	78.74	77.59	Signal (dB)
-6.52	-9.48	-1.22	-1.88	1.60	-0.89	-23.16	-39.98	-67.34	-73.20	6.42	1.85	Noise (dB)
-26.34	-3.41	-1.13	-2.80	-1.31	2.99	2.97	0.34	-1.09	-8.26	1.74	0.59	G (dB)
-4.46	-16.06	-7.28	-5.22	-6.42	-4.74	-3.26	-2.93	0.50	2.04	-4.17	-3.35	C50 (dB)
-2.53	-12.34	-6.45	-3.78	-3.74	-3.59	-1.91	-0.69	3.07	6.34	-2.53	-1.74	C80 (dB)
26.35	2.42	15.77	23.10	18.58	25.15	32.06	33.74	52.87	61.52	27.68	31.61	D50 (%)
310.42	575.45	403.12	296.83	287.77	242.21	190.50	132.92	70.92	43.57	234.73	188.03	Ts (ms)
4.63	7.20	6.06	4.64	4.18	3.51	2.97	1.92	1.16	0.72	3.72	2.94	EDT (s)
4.96	7.38	5.13	4.59	4.29	3.52	2.89	1.99	1.22	0.50	4.42	3.17	Tuser (s)
5.20	6.20	5.61	4.77	4.18	3.65	2.98	2.07	1.22	0.57	4.87	3.37	T20 (s)
4.62	5.14	5.36	4.72	4.25	3.70	2.96	2.13	1.26	0.60	4.95	3.53	T30 (s)
18.64	18.51	19.13	24.35	22.58	24.17	28.34	31.56	38.70	39.54	31.96	31.83	Peakiness[dB]
18.57	18.23	18.77	22.99	19.42	20.58	22.37	22.87	28.55	28.63	23.57	22.97	Millisecs[dB]
14.29	13.45	13.49	14.76	13.56	14.84	15.78	16.23	18.33	19.22	15.91	15.28	4, 30 dB, 30, 30

List of IRs in the collection - 21 items

```
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m C1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m C2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m C3 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m C4 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m LR1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m LR2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omni 3m LR3 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m C1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m C2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m C3 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m C4 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m LR1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m LR2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, omniW 3m LR3 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m C1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m C2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m C3 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m C4 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m LR1 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m LR2 (4.3s)
Sonus Paradisi, Hall, J.Hradec Rondel, ortf 3m LR3 (4.3s)
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Rab43

A collection of impulse responses of the church in Rabštejn nad Střelou (CZ). Reverberation time approx. 4 s. The IRs represent a smaller baroque church. Three microphone techniques, 6 positions of the source.

Time/Frequency graph

Sources and microphone positions

7 m

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Channel: Left / Right

Tuser limits: (0. dB, -60. dB)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	45.00	63.53	70.69	69.51	75.48	78.42	78.08	77.31	73.50	61.67	84.21	84.77
Noise (dB)	-31.76	-35.17	-31.77	-25.01	-9.32	-7.86	-26.66	-49.28	-63.71	-62.50	-6.55	-5.08
strenGth(dB)	-24.00	-5.47	1.69	0.51	6.48	9.42	9.08	8.31	4.50	-7.33	7.21	7.77
C50 (dB)	13.05	-1.84	-0.06	-4.06	-0.17	-1.09	-3.01	0.35	2.69	0.92	-1.10	-0.97
C80 (dB)	13.96	-0.28	0.96	-2.62	0.35	-0.48	-1.56	1.69	4.54	2.38	0.04	0.10
D50 (%)	95.28	39.59	49.65	28.17	49.04	43.75	33.32	52.00	64.99	55.28	43.70	44.47
Ts (ms)	38.67	196.40	178.92	263.87	203.53	213.87	196.31	104.24	58.98	61.06	167.96	172.64
EDT (s)	0.28	2.66	2.65	3.68	3.37	3.55	2.93	1.63	0.93	0.77	2.66	2.78
T20 (s)	1.73	2.52	3.69	3.99	4.24	4.04	3.38	1.92	1.09	0.50	3.64	3.74
r T20	0.96	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00
T30 (s)	2.28	2.73	3.64	4.11	4.35	4.11	3.36	2.03	1.12	0.54	3.74	3.89
r T30	0.97	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	3.99	3.05	3.45	4.02	4.16	4.02	3.37	2.12	1.18	0.88	3.76	3.84
r Tuser	0.91	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 9 items
```
Sonus Paradisi, Church, Rabstejn P.Maria, cardio 7m HW (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, cardio 7m PE (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, cardio 7m RP (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, omni 7m HW (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, omni 7m PE (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, omni 7m RP (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, rear 7m HW (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, rear 7m PE (4.2s)
Sonus Paradisi, Church, Rabstejn P.Maria, rear 7m RP (4.2s)
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PE = IR suitable for the Pedal division,
HW = IR suitable for the Hauptwerk division,
RP = IR suitable for the Ruckpositiv division.

Pkb44

A collection of impulse responses of the church of sv. Jakub in Prague (CZ). Reverberation time approx. 4.5 s. The IRs represent a thin and long gothic church with a lot of furniture inside. Five microphone techniques and 5 positions of the source available.
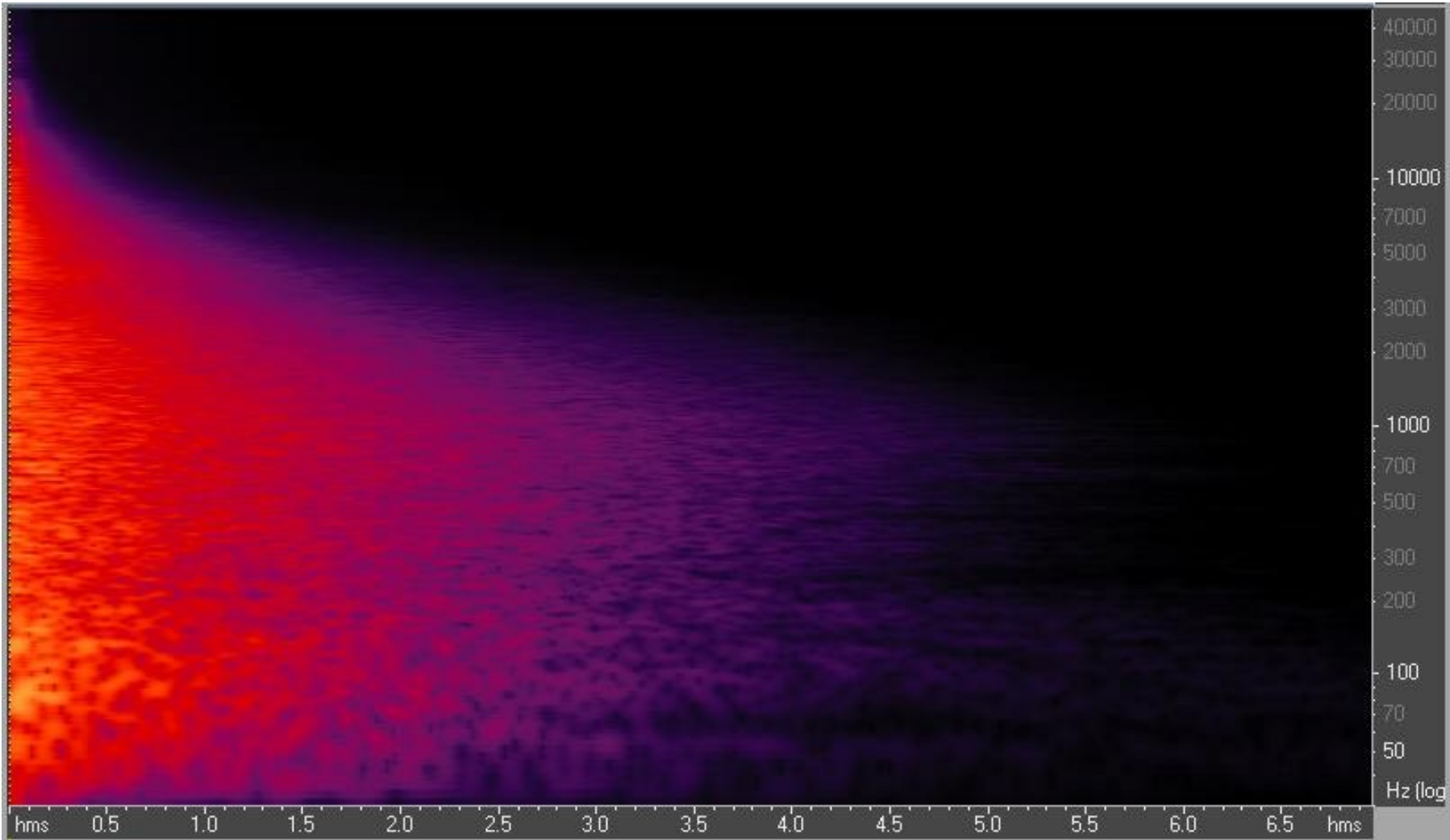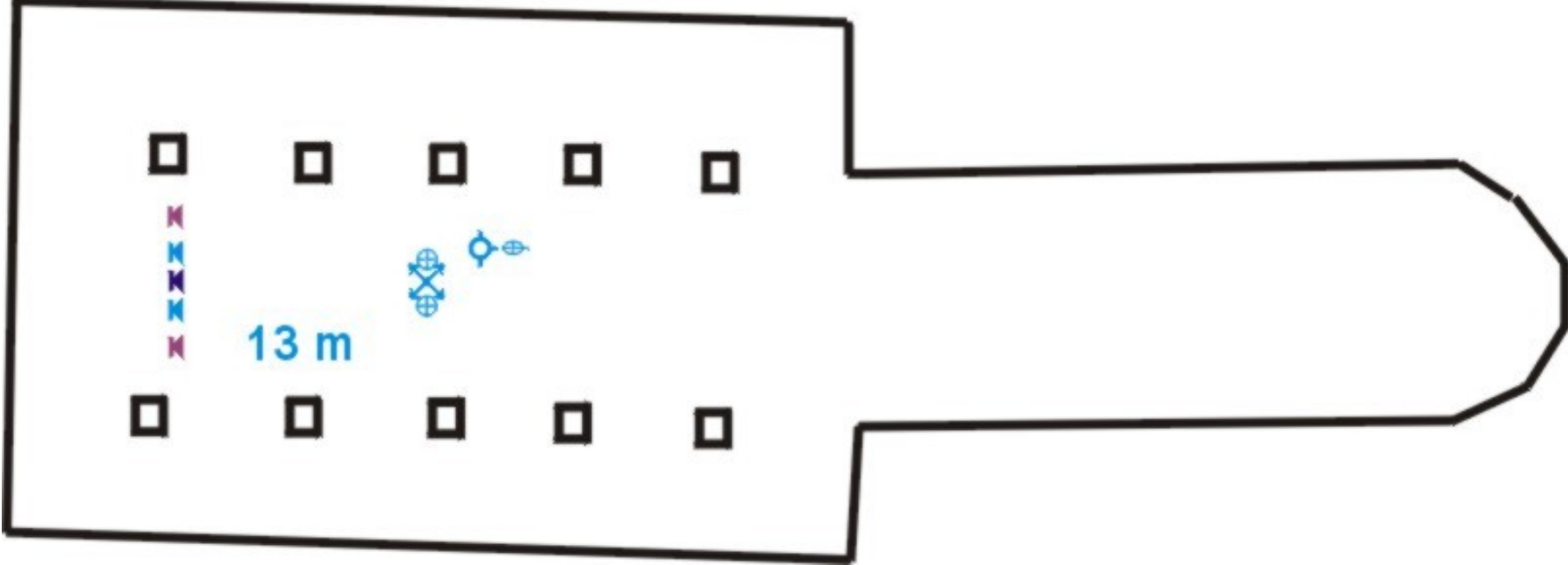
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	49.58	67.65	70.93	69.58	73.05	76.73	78.29	77.05	75.76	65.67	83.93	84.50
Noise (dB)	-28.50	-20.18	-15.77	-31.30	-39.52	-40.88	-63.14	-69.87	-67.31	-67.57	-31.17	-5.40
strenGth(dB)	-19.42	-1.35	1.93	0.58	4.05	7.73	9.29	8.05	6.76	-3.33	6.93	7.50
C50 (dB)	0.06	-0.34	-5.91	-6.93	-5.77	-5.05	-3.46	-1.74	3.93	11.08	-2.36	-2.44
C80 (dB)	1.40	2.93	-4.48	-3.12	-4.21	-3.25	-1.53	0.11	5.68	14.20	-0.64	-0.72
D50 (%)	50.34	48.05	20.41	16.86	20.94	23.82	31.07	40.09	71.21	92.77	36.73	36.32
Ts (ms)	186.24	170.09	250.34	273.37	285.84	286.52	193.56	131.05	51.00	14.46	180.07	186.81
EDT (s)	2.69	2.33	3.59	3.71	4.04	4.20	2.93	1.96	0.88	0.22	2.83	2.95
T20 (s)	3.95	2.86	3.69	4.00	4.36	4.31	3.47	2.25	1.23	0.57	3.76	3.87
r T20	0.95	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
T30 (s)	3.78	3.17	3.69	4.13	4.38	4.32	3.47	2.27	1.26	0.59	3.84	3.93
r T30	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.74	3.27	3.87	4.08	4.27	4.23	3.44	2.38	1.29	0.80	3.88	3.94
r Tuser	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 13 items
Sonus Paradisi, Church, Praha sv.Jakub, cardio 13m C (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, cardio 13m LR (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, cardio 13m LRw (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, head 13m C (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, jecklin 13m C (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, jecklin 13m LR (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, jecklin 13m LRw (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, omni 13m C (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, omni 13m LR (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, omni 13m LRw (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, rear 13m C (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, rear 13m LR (4.4s)
Sonus Paradisi, Church, Praha sv.Jakub, rear 13m LRw (4.4s)

Jhk45

A collection of IRs of sv. Jakub of Kutná Hora (CZ). Reverberation time approx. 4.5 s. The IRs represent a mid-size gothic hall with 3 naves and a lot of furniture. Four microphone techniques and 3 positions of the source available.
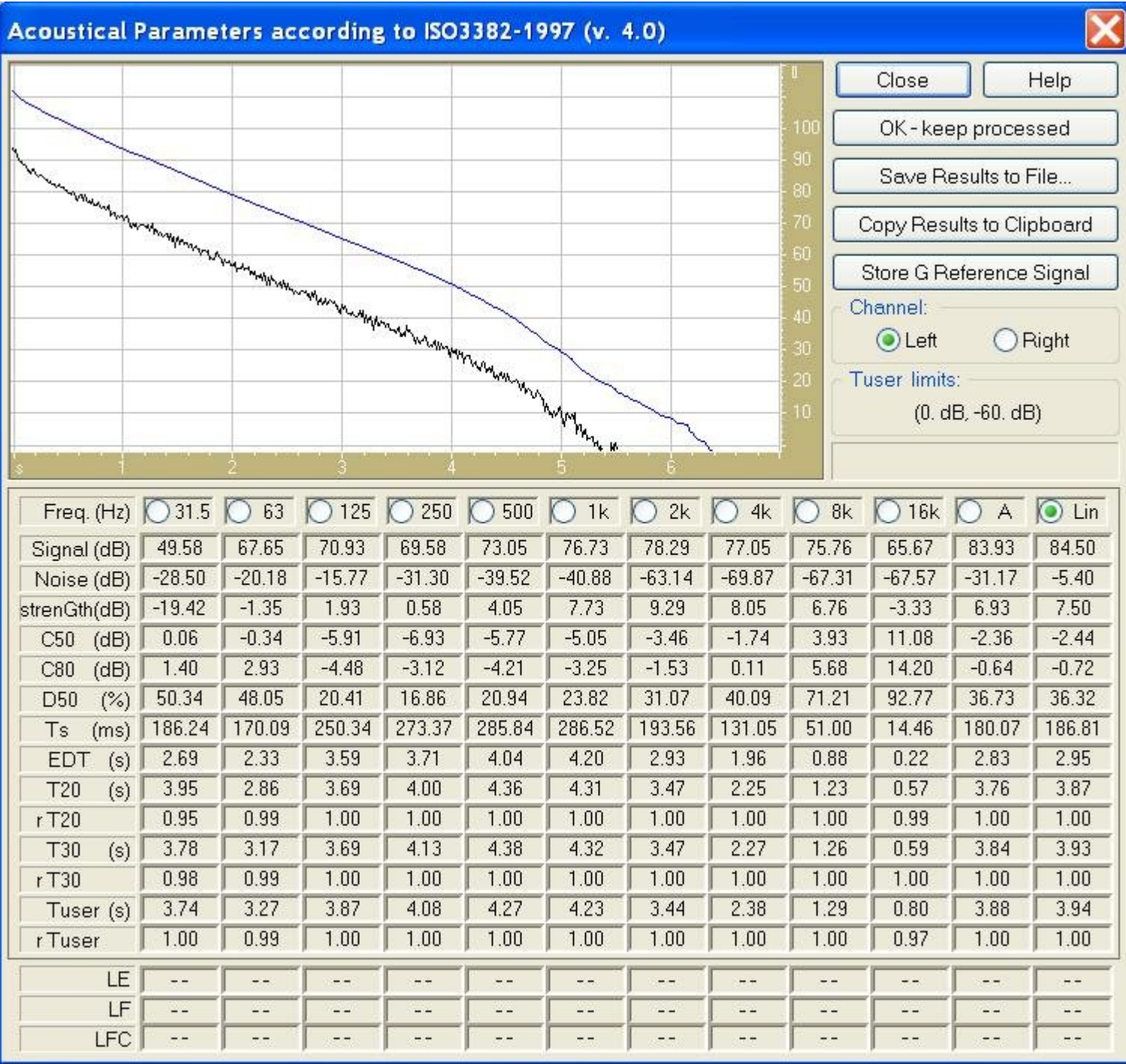
Time/Frequency graph

Source and microphone locations (scheme)

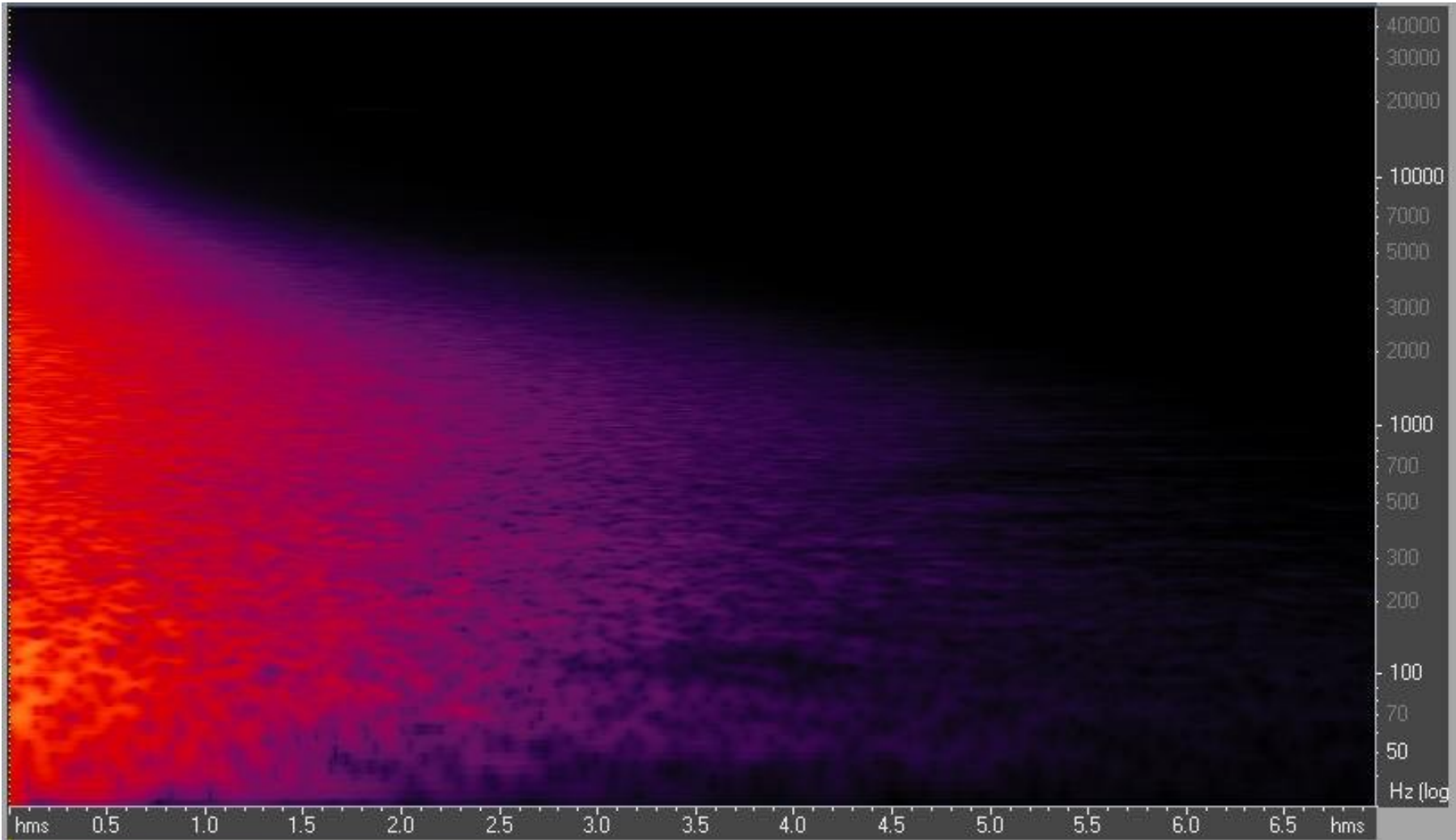**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	46.86	62.22	66.98	66.72	67.81	72.23	73.12	71.88	68.62	56.97	78.73	79.39
Noise (dB)	-26.83	-17.17	-13.62	-16.82	-18.72	-30.16	-57.39	-73.42	-70.66	-69.05	-19.98	-9.68
strenGth(dB)	-22.14	-6.78	-2.02	-2.28	-1.19	3.23	4.12	2.88	-0.38	-12.03	1.73	2.39
C50 (dB)	-2.81	-7.14	-3.91	-7.85	-6.84	-6.48	-6.63	-4.54	-0.81	3.45	-5.35	-5.34
C80 (dB)	-2.66	-3.43	-2.75	-5.35	-5.24	-5.12	-4.43	-2.37	1.76	6.81	-3.38	-3.46
D50 (%)	34.38	16.19	28.88	14.10	17.15	18.36	17.85	26.00	45.35	68.88	22.60	22.64
Ts (ms)	284.12	230.43	247.11	313.62	309.44	297.31	256.17	166.87	89.47	44.85	228.71	234.77
EDT (s)	3.92	2.98	3.67	4.18	4.30	4.11	3.41	2.22	1.22	0.64	3.25	3.36
T20 (s)	2.88	3.53	3.98	4.70	4.65	4.36	3.72	2.41	1.34	0.64	3.91	4.09
r T20	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	3.37	3.92	3.96	4.61	4.54	4.40	3.75	2.50	1.38	0.66	3.99	4.12
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	4.17	3.79	3.62	4.71	4.38	4.28	3.75	2.62	1.48	1.01	4.01	4.11
r Tuser	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 8 items

Sonus Paradisi, Church, Kutna Hora sv.Jakub, cardio 16m C (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, cardio 16m LR (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, jecklin 16m C (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, jecklin 16m LR (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, omni 16m C (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, omni 16m LR (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, rear 16m C (4.5s)
Sonus Paradisi, Church, Kutna Hora sv.Jakub, rear 16m LR (4.5s)

JHKo45

A collection of impulse responses of the church of Jan Křtitel in Jindřichův Hradec (CZ). Featuring the acoustics of a mid-sized gothic church with a very long presbytery. approx. 4.5 s long. 3 microphone positions, 3 source positions.
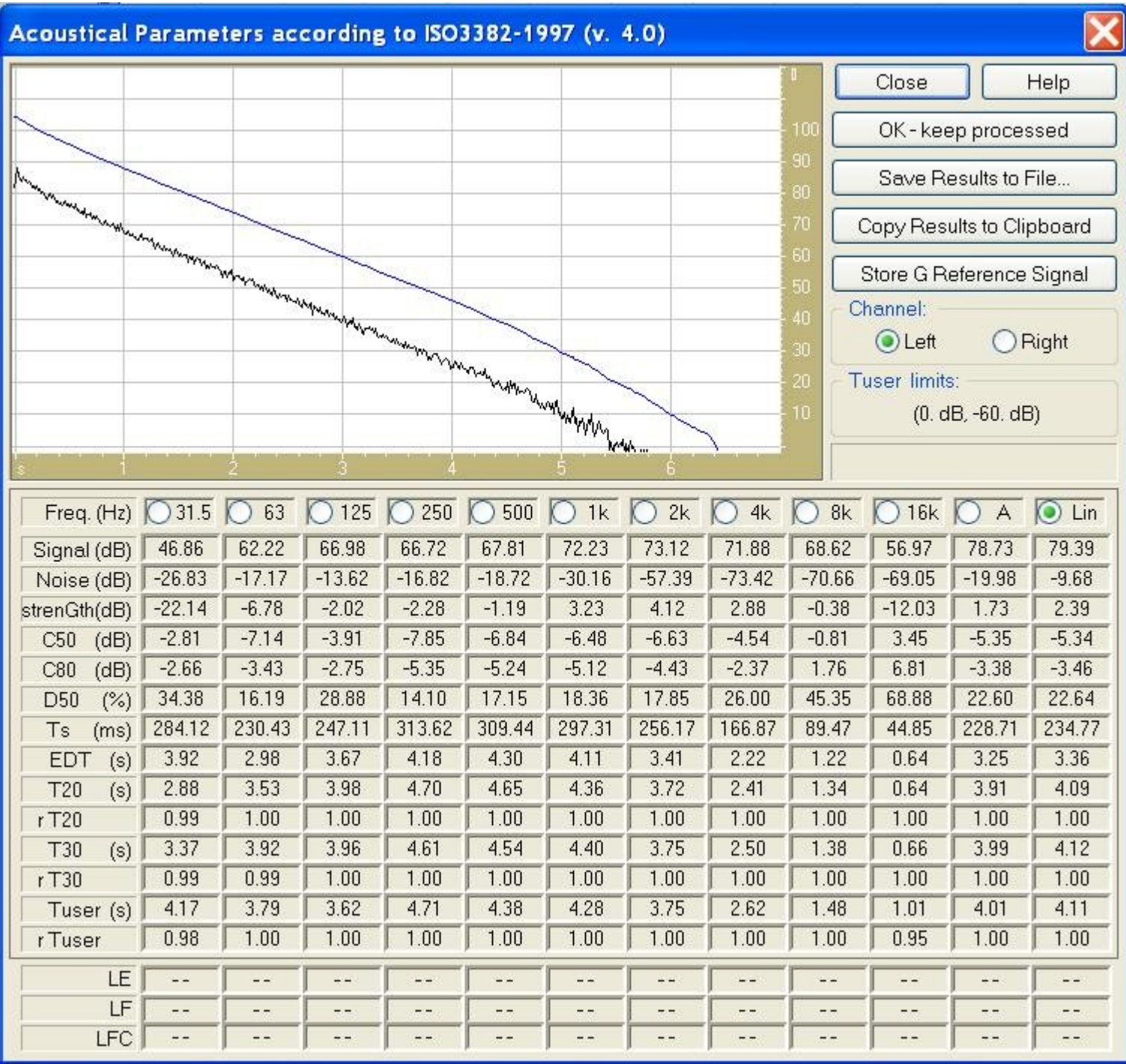
Time/Frequency graph

Source and microphone locations (scheme)

16 m

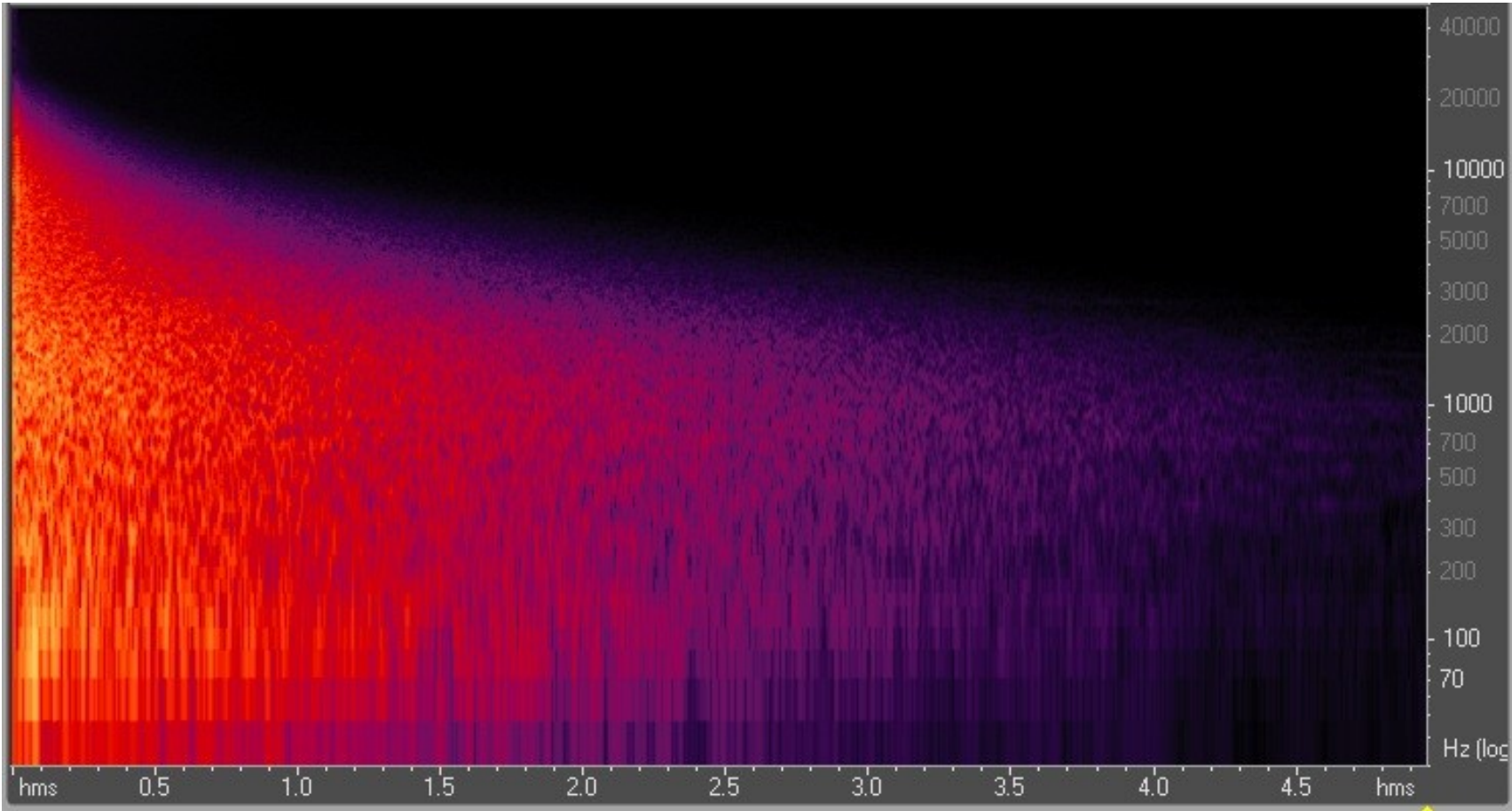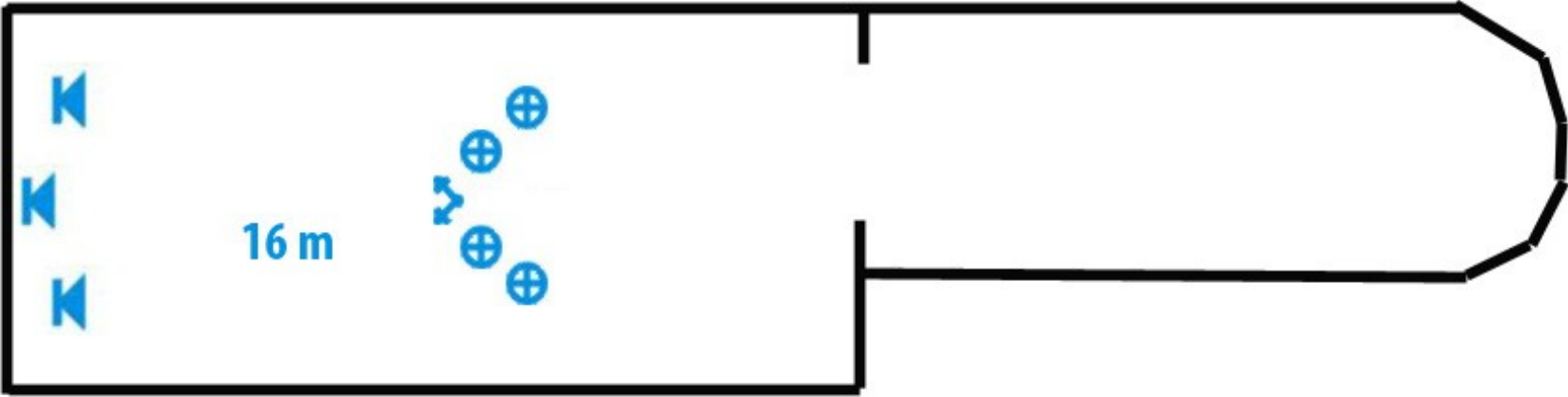**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

Acoustical Parameters according to ISO3382 (v. 4.2)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	46.41	63.50	70.62	69.88	72.57	77.56	78.90	75.63	78.14	72.27	85.16	84.40	Signal (dB)
	-14.72	-0.34	1.81	9.14	18.85	21.49	4.64	-26.62	-48.05	-61.92	24.23	22.72	Noise (dB)
	-22.59	-5.50	1.62	0.88	3.57	8.56	9.90	6.63	9.14	3.27	8.16	7.40	G (dB)
	1.40	-5.32	-9.48	-5.12	-4.93	-5.33	-5.18	-1.49	6.69	14.53	-1.46	-2.20	C50 (dB)
	1.50	1.86	-3.63	-3.15	-3.33	-3.91	-2.80	0.25	8.94	16.93	0.14	-0.62	C80 (dB)
	57.98	22.71	10.13	23.51	24.31	22.65	23.29	41.50	82.34	96.59	41.66	37.61	D50 (%)
	179.36	221.61	250.89	282.79	288.10	282.67	221.91	138.38	27.34	5.63	174.74	184.21	Ts (ms)
	2.76	3.92	3.33	4.32	4.57	4.27	3.32	2.40	0.95	0.02	3.41	3.33	EDT (s)
	3.57	3.60	4.05	4.76	4.52	4.23	3.59	2.47	1.13	0.56	3.84	3.69	Tuser (s)
	3.43	3.60	3.78	4.27	4.52	4.24	3.63	2.53	1.21	0.62	3.96	3.85	T20 (s)
	3.97	3.59	3.75	4.14	4.51	4.33	3.65	2.58	1.30	0.63	4.03	3.95	T30 (s)
	22.96	22.95	22.47	23.66	26.26	29.32	30.03	35.73	43.87	46.53	41.87	40.05	Peakiness[dB]
	22.85	22.73	22.01	22.44	23.27	25.94	24.69	27.51	34.17	36.24	30.10	30.97	Millisecs[dB]
	18.47	18.18	15.79	14.12	14.67	14.22	14.24	16.89	20.43	21.25	16.69	17.23	Impulsivs[dB]

List of IRs in the collection - 6 items
```
Sonus Paradisi, Church, J.Hradec J.Krtitel, omni 16m C (4.5s)
Sonus Paradisi, Church, J.Hradec J.Krtitel, omni 16m LR (4.5s)
Sonus Paradisi, Church, J.Hradec J.Krtitel, omniW 16m C (4.5s)
Sonus Paradisi, Church, J.Hradec J.Krtitel, omniW 16m LR (4.5s)
Sonus Paradisi, Church, J.Hradec J.Krtitel, ortf 16m C (4.5s)
Sonus Paradisi, Church, J.Hradec J.Krtitel, ortf 16m LR (4.5s)
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One IR is a part of the Hauptwerk demo IR set, with the name:
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HauptwerkReverb-Church04-Omni-16m-WideLR-4.5s
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VCha15med

An artificial true-stereo IR, universal, very low resonance, high density from the start, about 4.5 seconds.

Time/Frequency graph

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	71.15	75.35	77.59	80.32	82.82	85.24	87.12	88.01	87.08	81.81	93.83	94.49
Noise (dB)	-4.92	-3.09	1.46	9.13	14.04	15.13	10.38	-12.45	-28.48	-25.42	17.85	19.48
strenGth(dB)	2.15	6.35	8.59	11.32	13.82	16.24	18.12	19.01	18.08	12.81	16.83	17.49
C50 (dB)	-7.20	-4.88	-7.36	-8.16	-7.84	-7.84	-6.34	-5.45	-2.13	4.24	-5.20	-4.73
C80 (dB)	-6.26	-3.63	-6.53	-5.23	-5.28	-5.40	-4.62	-3.66	0.03	7.29	-3.31	-2.90
D50 (%)	16.01	24.53	15.51	13.26	14.13	14.12	18.85	22.20	37.99	72.64	23.20	25.17
Ts (ms)	440.56	303.89	375.67	324.42	337.94	338.84	294.16	217.50	108.87	38.09	240.39	236.22
EDT (s)	7.14	4.23	4.50	4.26	4.81	4.78	4.25	3.02	1.62	0.62	3.53	3.59
T20 (s)	3.93	4.67	4.08	4.70	4.95	4.76	4.18	2.68	1.32	0.60	4.08	4.23
r T20	0.97	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	4.39	4.49	4.15	4.75	4.92	4.77	4.23	2.75	1.31	0.59	4.24	4.36
r T30	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.06	5.12	3.52	4.39	5.06	4.78	4.26	2.84	1.39	0.60	3.88	3.98
r Tuser	0.91	0.97	0.99	0.99	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 1 item

Sonus Paradisi, Church, VCha15med, Artificial (4.5s)

JHKa47

A collection of impulse responses of the chapel of sv. Mikuláš in Jindřichův Hradec (CZ), approx. 4.7 s long. 3 microphone positions, 3 source positions.
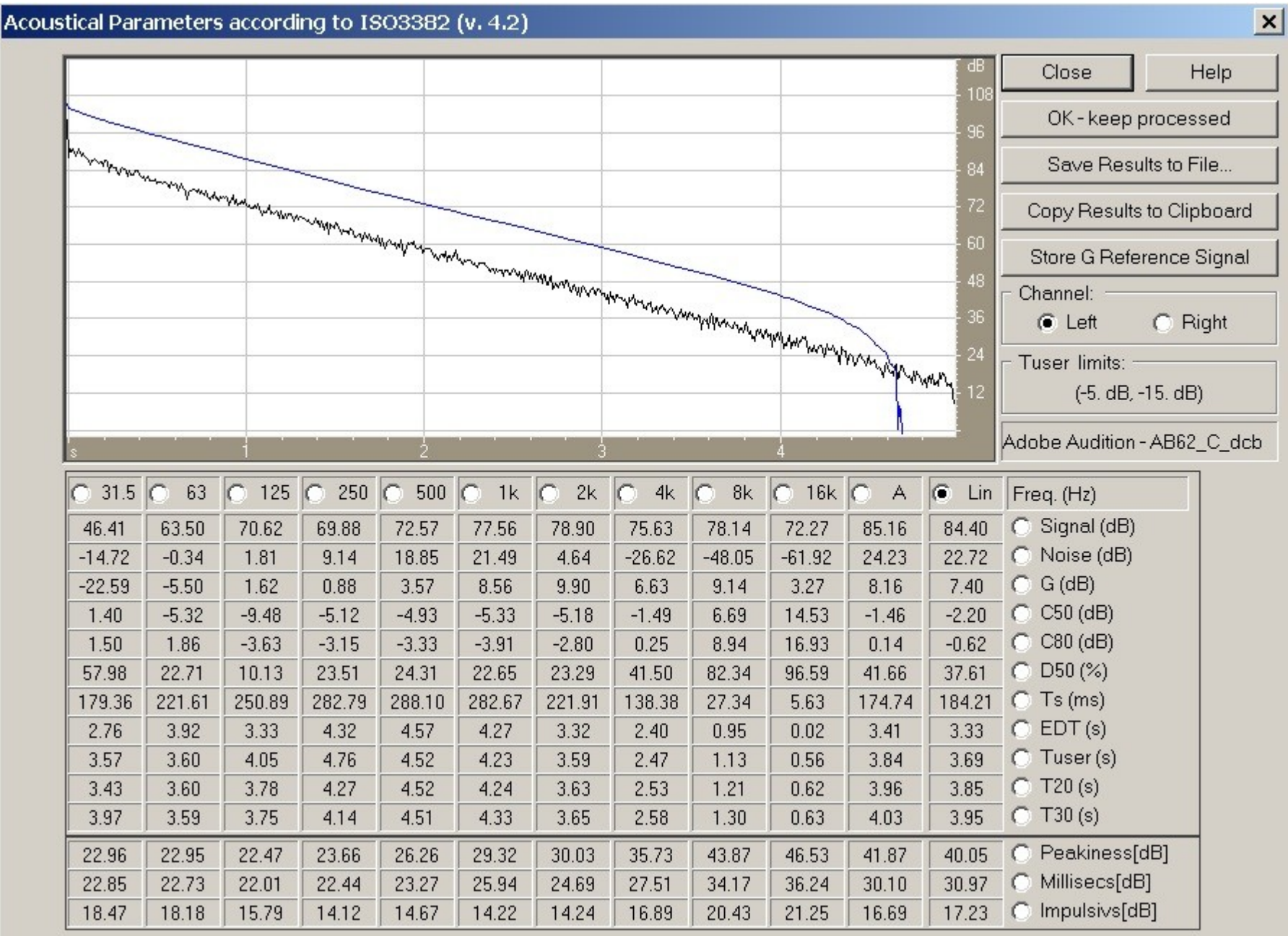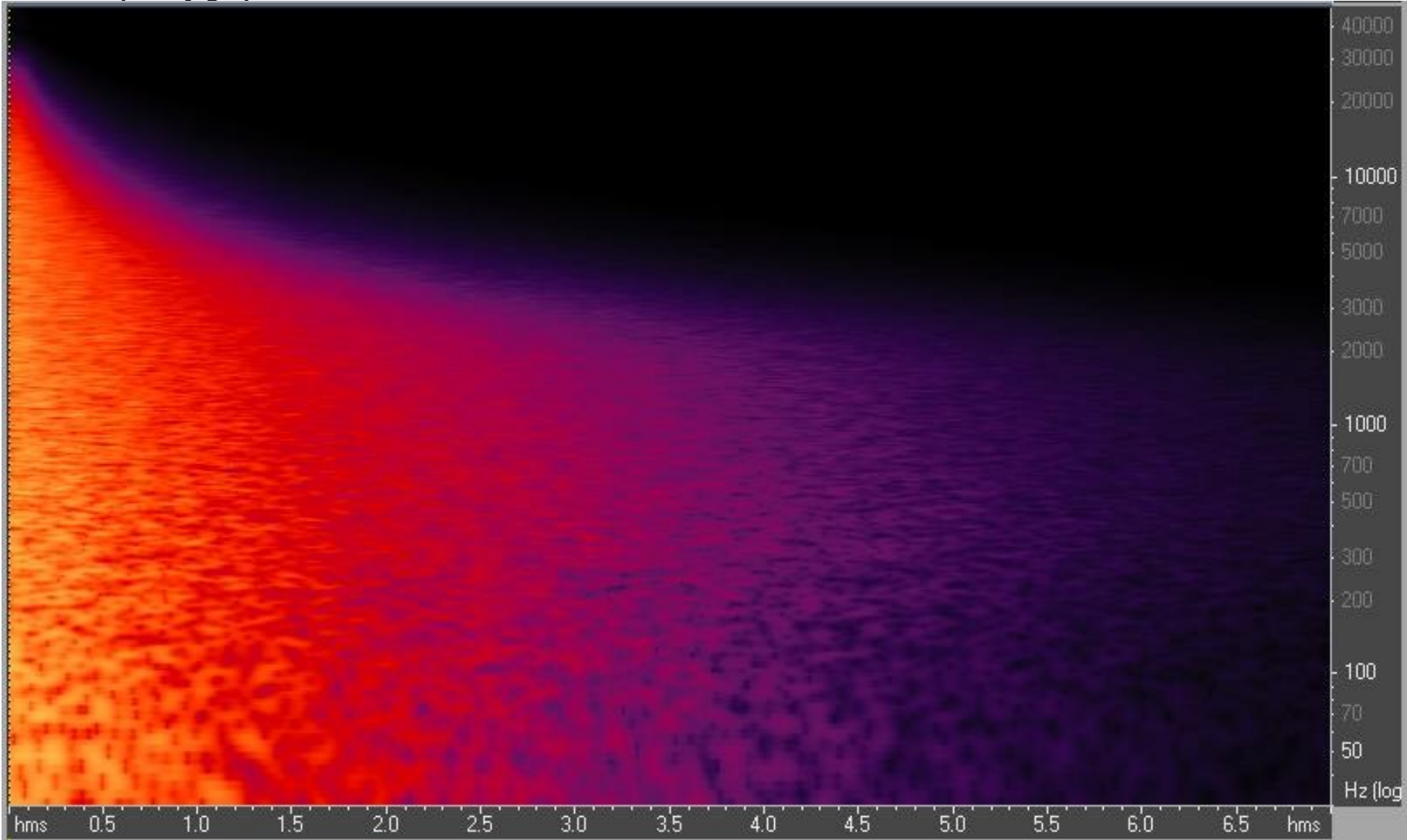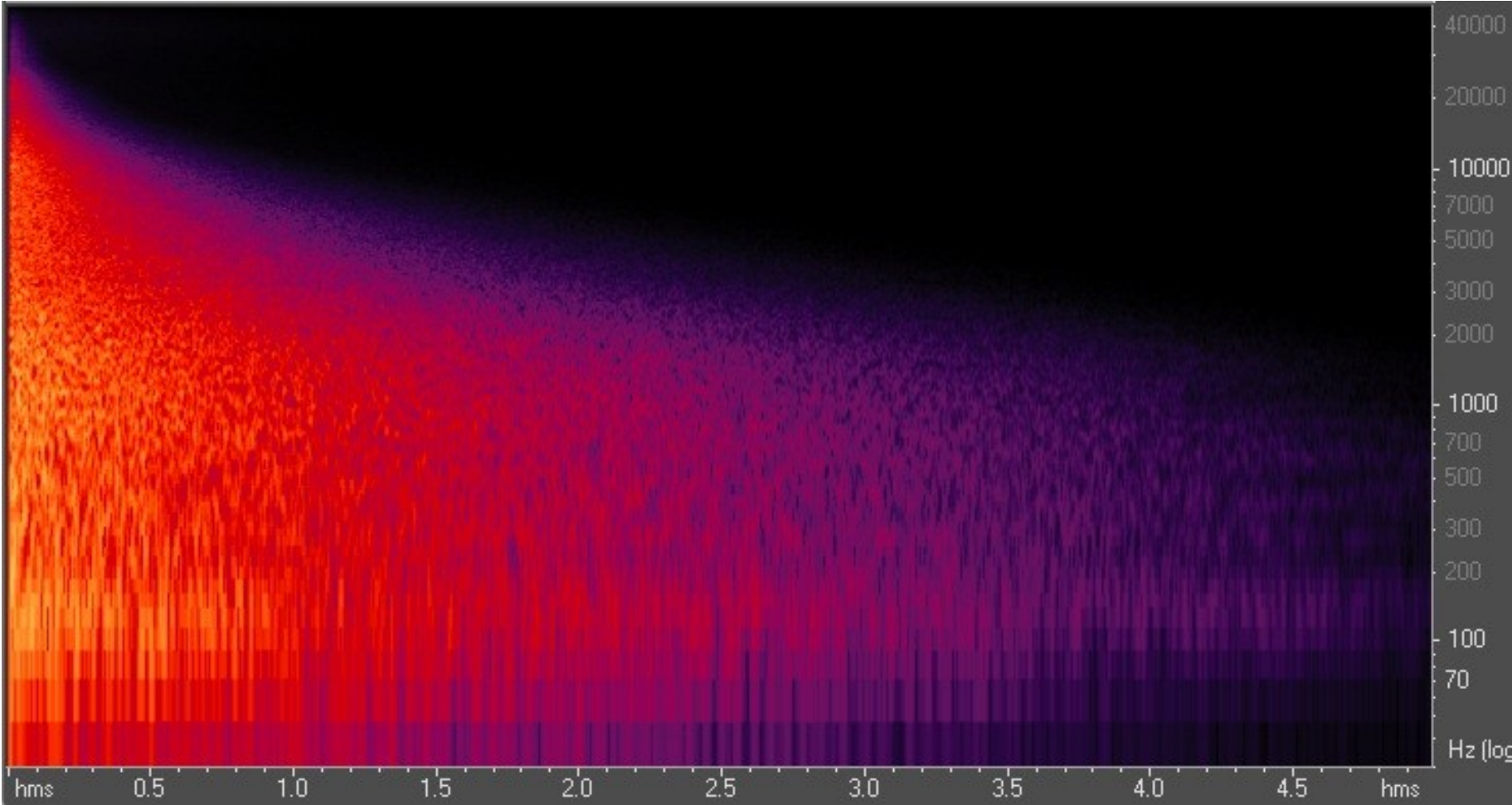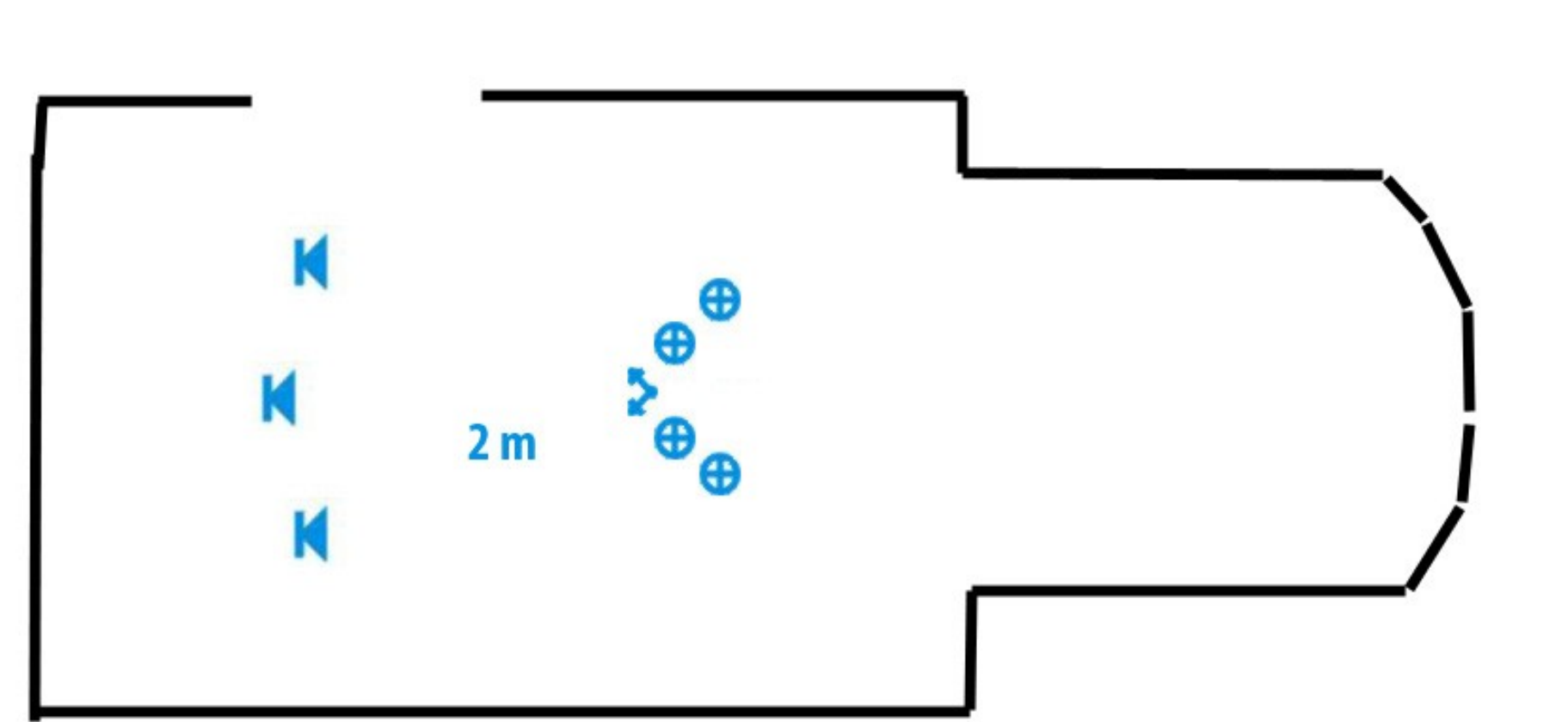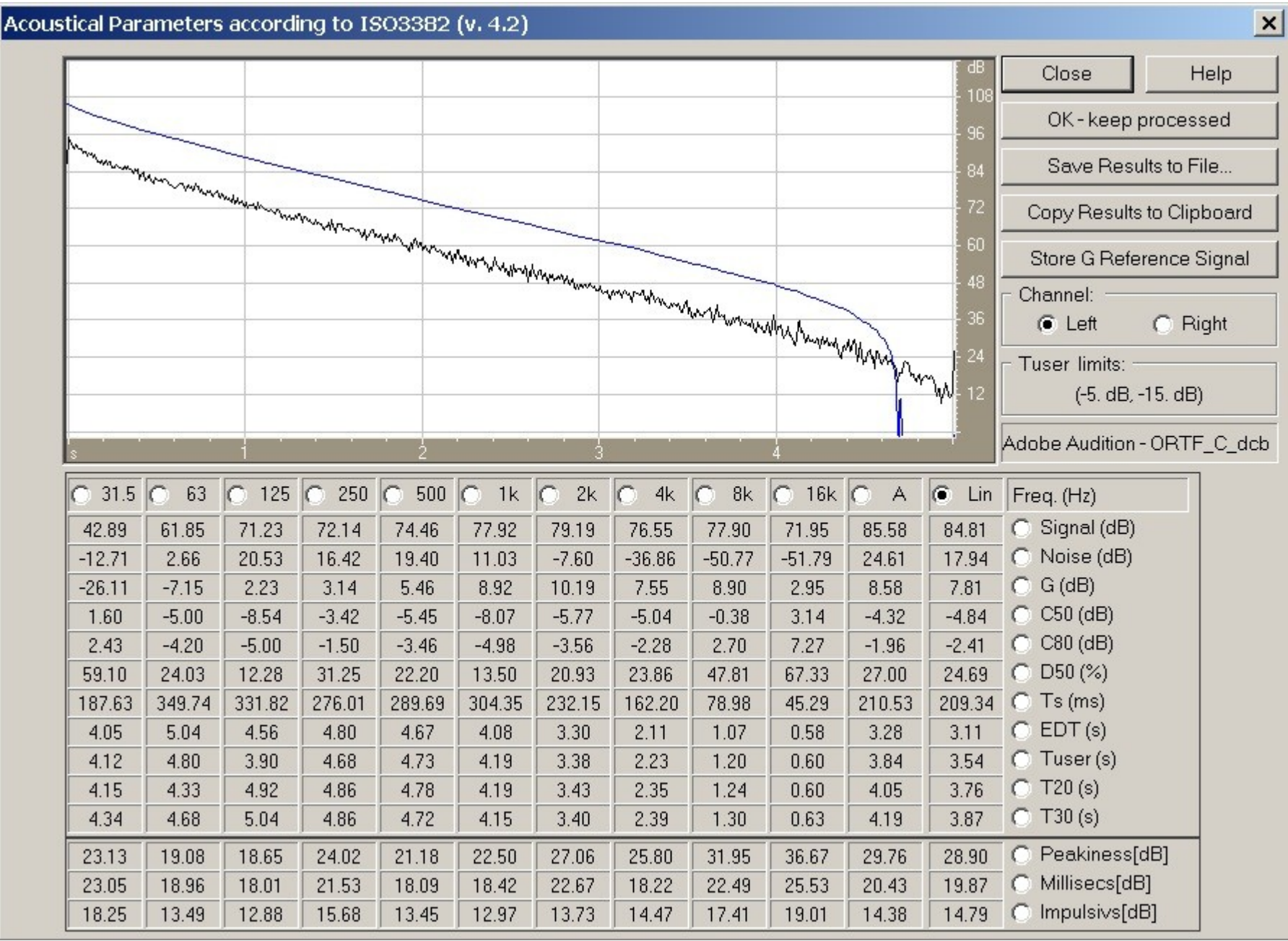
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

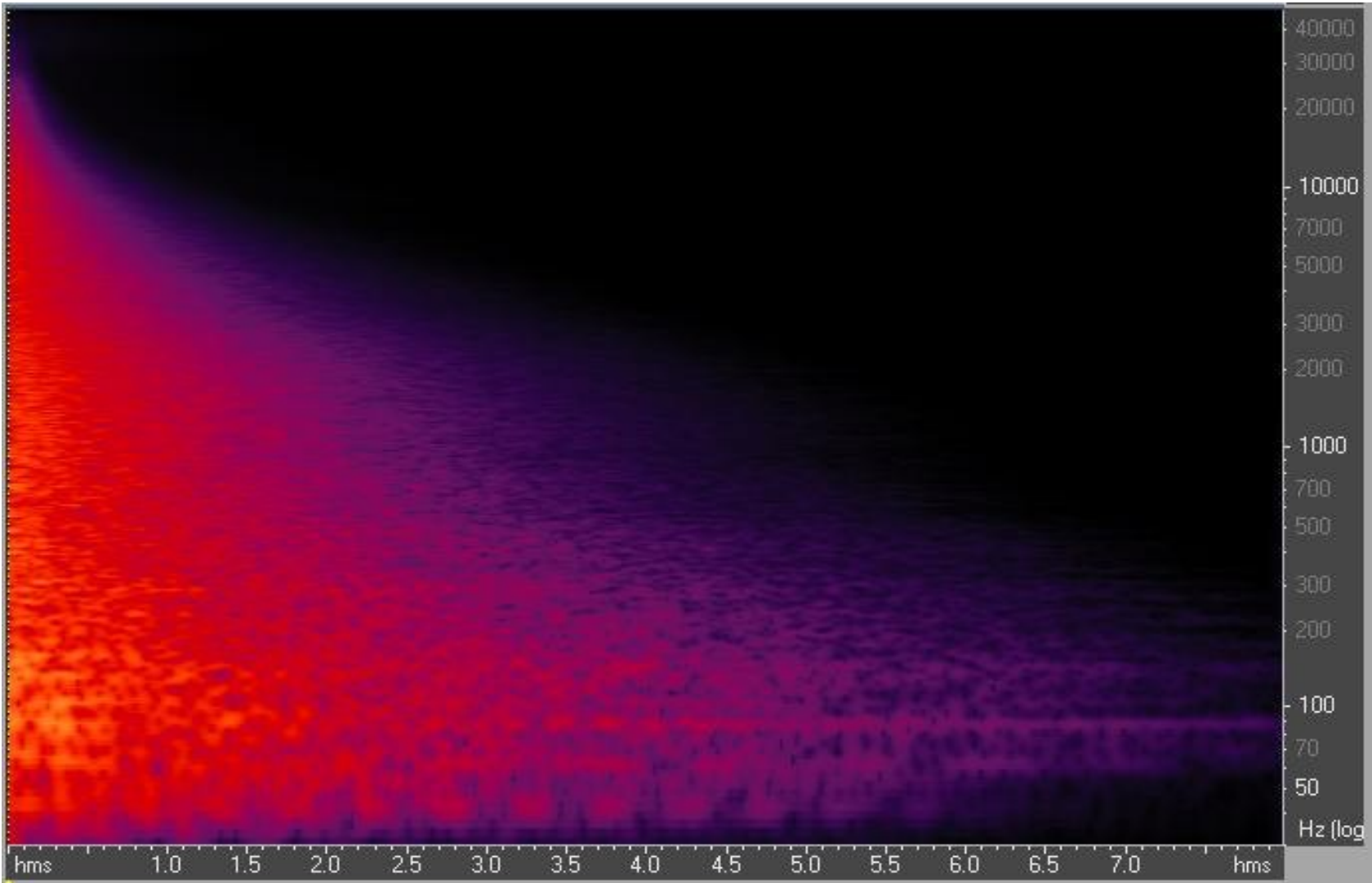|	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	42.89	61.85	71.23	72.14	74.46	77.92	79.19	76.55	77.90	71.95	85.58	84.81	Signal (dB)
	-12.71	2.66	20.53	16.42	19.40	11.03	-7.60	-36.86	-50.77	-51.79	24.61	17.94	Noise (dB)
	-26.11	-7.15	2.23	3.14	5.46	8.92	10.19	7.55	8.90	2.95	8.58	7.81	G (dB)
	1.60	-5.00	-8.54	-3.42	-5.45	-8.07	-5.77	-5.04	-0.38	3.14	-4.32	-4.84	C50 (dB)
	2.43	-4.20	-5.00	-1.50	-3.46	-4.98	-3.56	-2.28	2.70	7.27	-1.96	-2.41	C80 (dB)
	59.10	24.03	12.28	31.25	22.20	13.50	20.93	23.86	47.81	67.33	27.00	24.69	D50 (%)
	187.63	349.74	331.82	276.01	289.69	304.35	232.15	162.20	78.98	45.29	210.53	209.34	Ts (ms)
	4.05	5.04	4.56	4.80	4.67	4.08	3.30	2.11	1.07	0.58	3.28	3.11	EDT (s)
	4.12	4.80	3.90	4.68	4.73	4.19	3.38	2.23	1.20	0.60	3.84	3.54	Tuser (s)
	4.15	4.33	4.92	4.86	4.78	4.19	3.43	2.35	1.24	0.60	4.05	3.76	T20 (s)
	4.34	4.68	5.04	4.86	4.72	4.15	3.40	2.39	1.30	0.63	4.19	3.87	T30 (s)
	23.13	19.08	18.65	24.02	21.18	22.50	27.06	25.80	31.95	36.67	29.76	28.90	Peakiness[dB]
	23.05	18.96	18.01	21.53	18.09	18.42	22.67	18.22	22.49	25.53	20.43	19.87	Millisecs[dB]
	18.25	13.49	12.88	15.68	13.45	12.97	13.73	14.47	17.41	19.01	14.38	14.79	Impulsivs[dB]

List of IRs in the collection - 6 items

Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, omni 2m C (4.8s)
Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, omni 2m LR (4.8s)
Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, omniW 2m C (4.8s)
Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, omniW 2m LR (4.8s)
Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, ortf 2m C (4.8s)
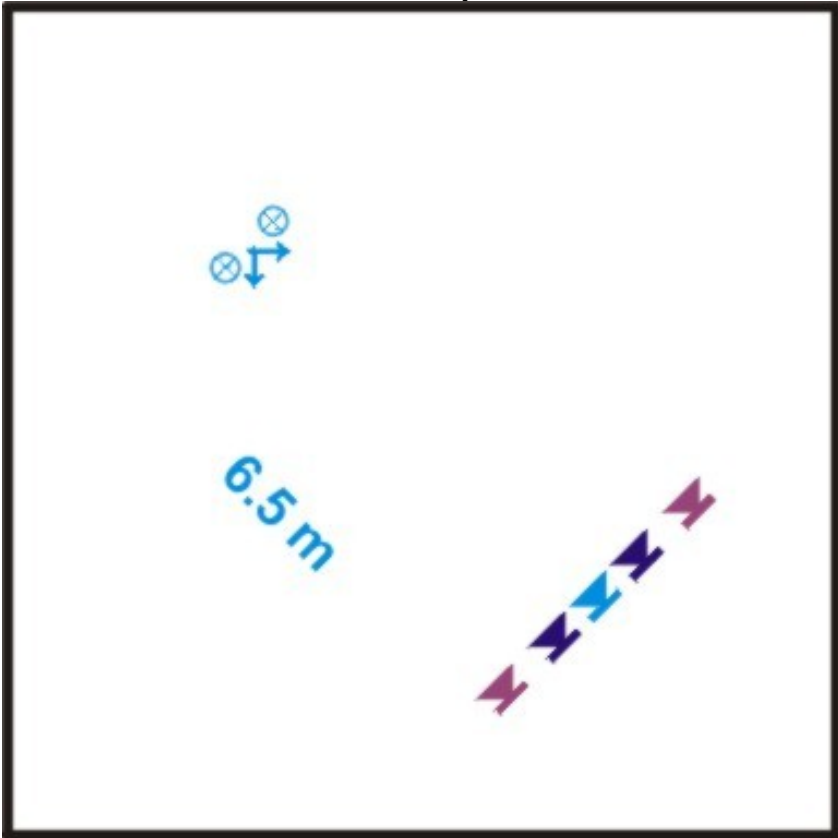Sonus Paradisi, Chapel, J.Hradec sv. Mikulas, ortf 2m LR (4.8s)

Gem49

A collection of IRs of a rectangular chapel whose walls were covered by gems - capella gemata. It is the chapel of sv. Václav in the Prague cathedral (CZ). The most holy place of the Czech Republic. 5 positions of the source, 2 recording techniques. Reverberation time approx. 5 s (up to 8 s) in the lowest bass region.
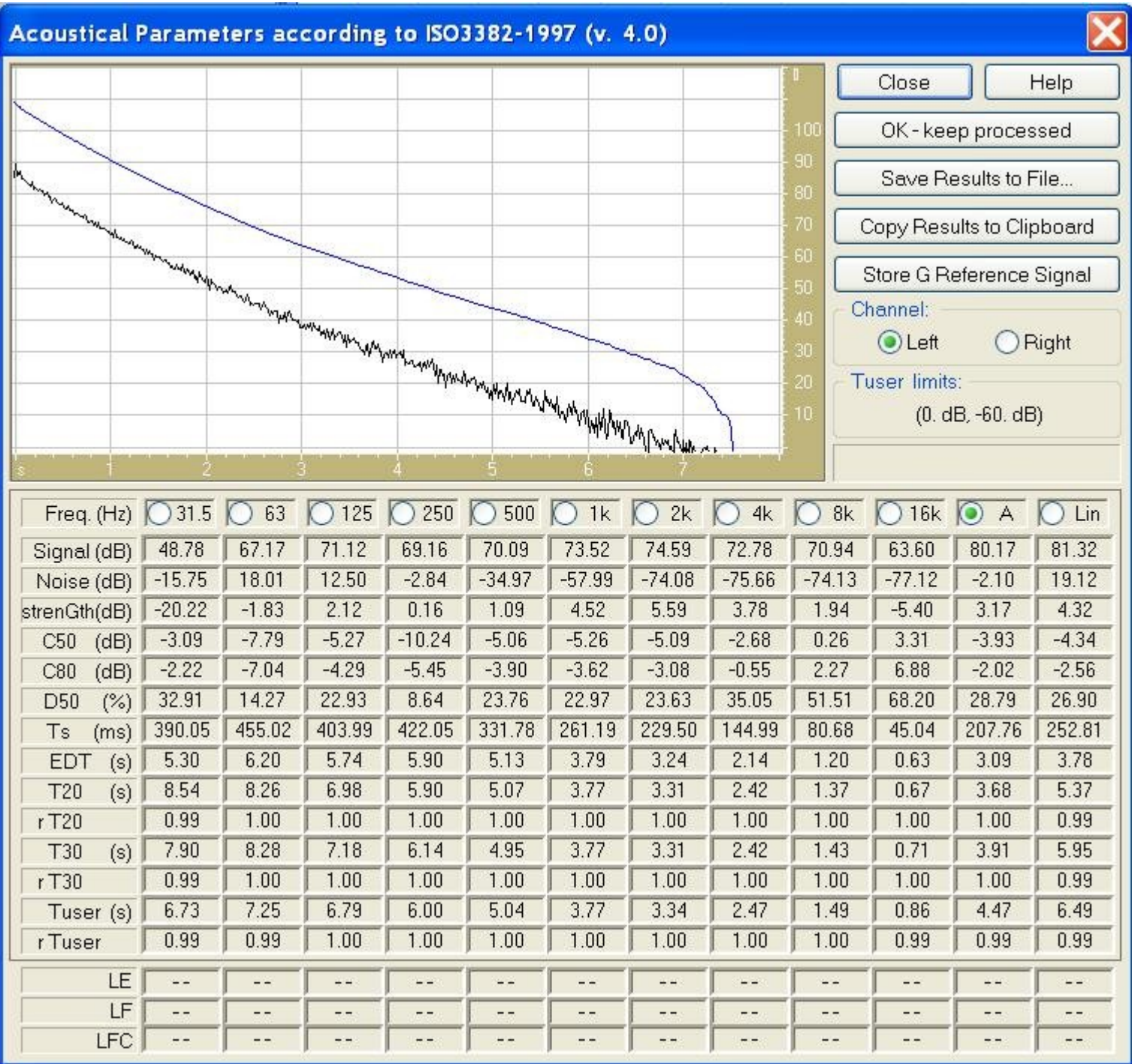
Time/Frequency graph

Position of sources and microphones

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

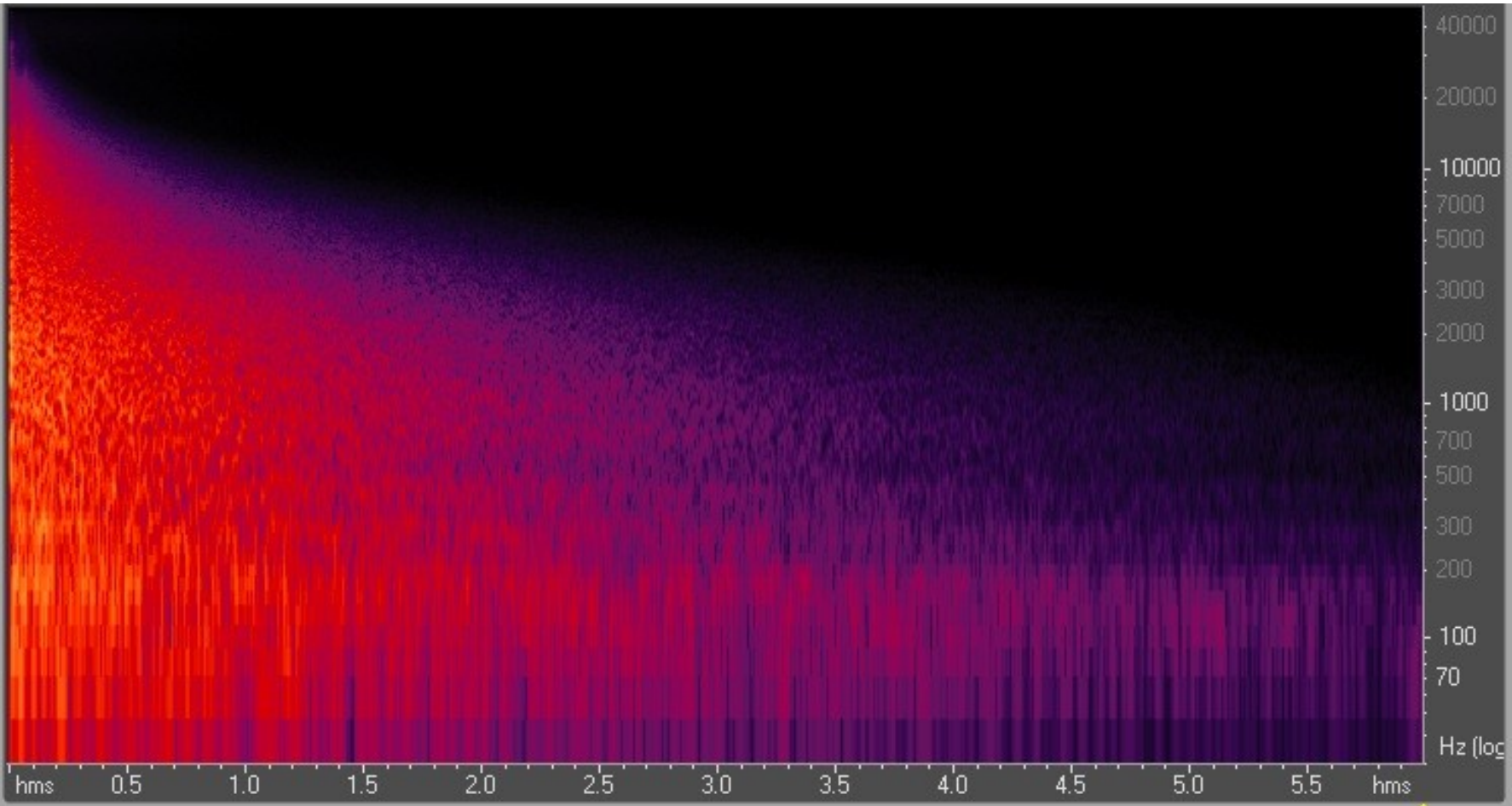| Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	48.78	67.17	71.12	69.16	70.09	73.52	74.59	72.78	70.94	63.60	80.17	81.32
Noise (dB)	-15.75	18.01	12.50	-2.84	-34.97	-57.99	-74.08	-75.66	-74.13	-77.12	-2.10	19.12
strenGth(dB)	-20.22	-1.83	2.12	0.16	1.09	4.52	5.59	3.78	1.94	-5.40	3.17	4.32
C50 (dB)	-3.09	-7.79	-5.27	-10.24	-5.06	-5.26	-5.09	-2.68	0.26	3.31	-3.93	-4.34
C80 (dB)	-2.22	-7.04	-4.29	-5.45	-3.90	-3.62	-3.08	-0.55	2.27	6.88	-2.02	-2.56
D50 (%)	32.91	14.27	22.93	8.64	23.76	22.97	23.63	35.05	51.51	68.20	28.79	26.90
Ts (ms)	390.05	455.02	403.99	422.05	331.78	261.19	229.50	144.99	80.68	45.04	207.76	252.81
EDT (s)	5.30	6.20	5.74	5.90	5.13	3.79	3.24	2.14	1.20	0.63	3.09	3.78
T20 (s)	8.54	8.26	6.98	5.90	5.07	3.77	3.31	2.42	1.37	0.67	3.68	5.37
r T20	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
T30 (s)	7.90	8.28	7.18	6.14	4.95	3.77	3.31	2.42	1.43	0.71	3.91	5.95
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99
Tuser (s)	6.73	7.25	6.79	6.00	5.04	3.77	3.34	2.47	1.49	0.86	4.47	6.49
r Tuser	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 6 items

Sonus Paradisi, Chapel, Praha sv.Vaclav, cardio 6.5m C (4.9s)
Sonus Paradisi, Chapel, Praha sv.Vaclav, cardio 6.5m LR (4.9s)
Sonus Paradisi, Chapel, Praha sv.Vaclav, cardio 6.5m LRw (4.9s)
Sonus Paradisi, Chapel, Praha sv.Vaclav, omni 6.5m C (4.9s)
Sonus Paradisi, Chapel, Praha sv.Vaclav, omni 6.5m LR (4.9s)
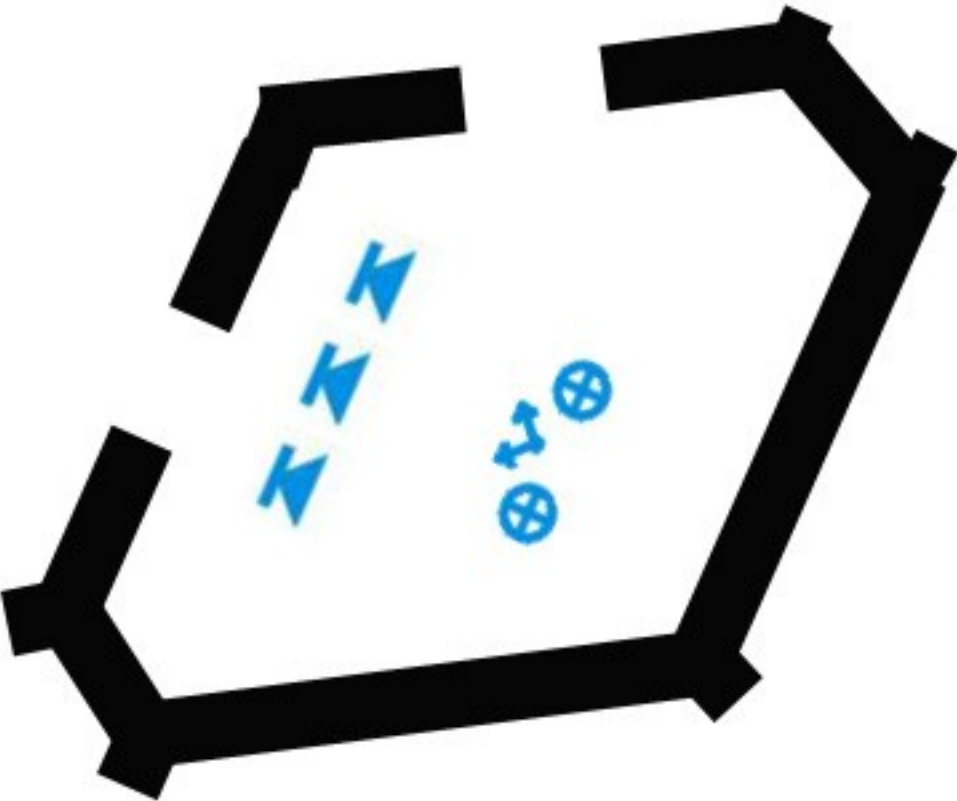Sonus Paradisi, Chapel, Praha sv.Vaclav, omni 6.5m LRw (4.9s)

Hkrb50

A collection of IRs of Prague Hvězda palace, the Hall with a fireplace. Reverberation time approx. 5 s. Two microphone positions, three source positions, variant IRs available.
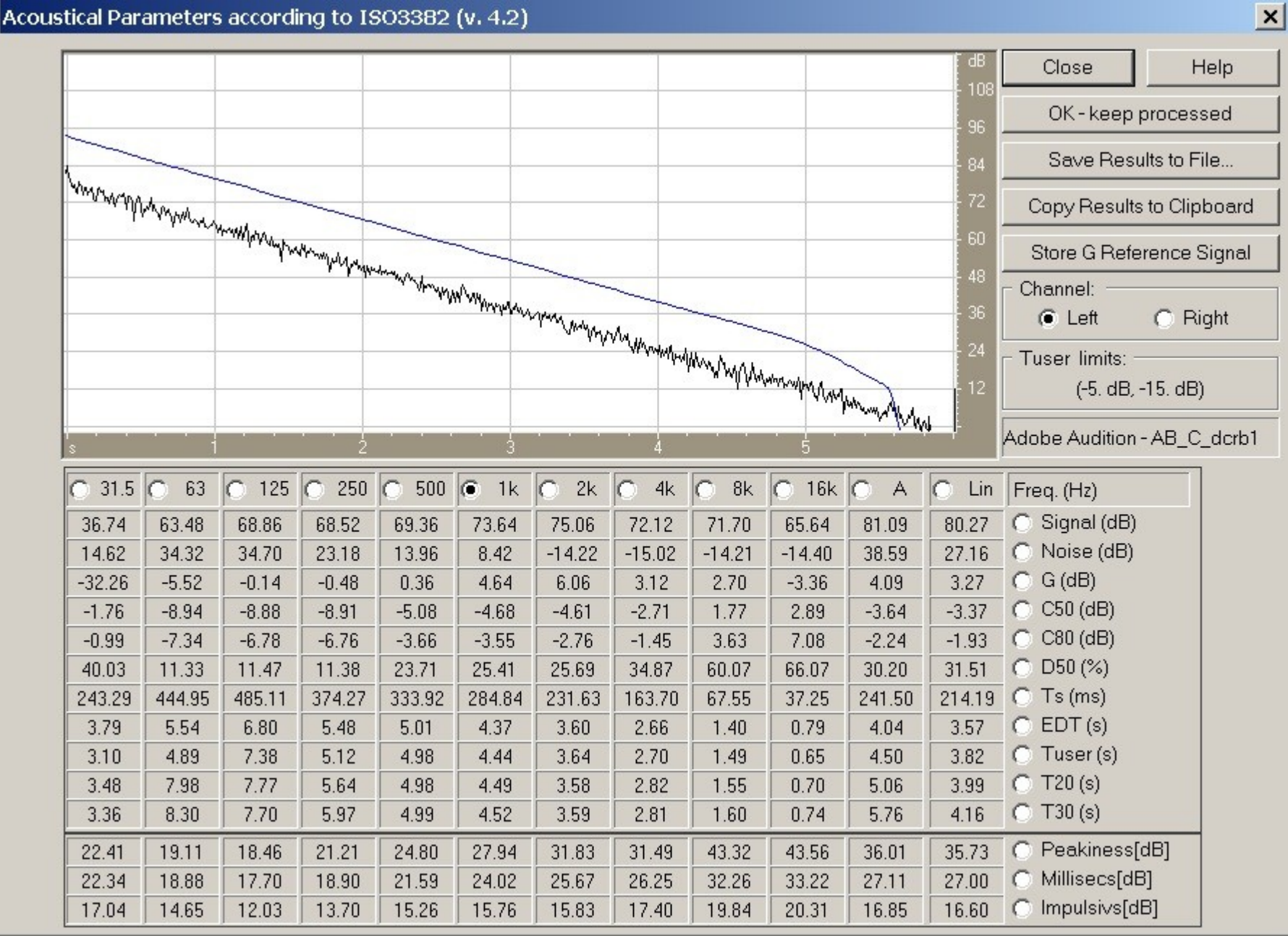
Time/Frequency graph

Position of sources and microphones

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382 (v. 4.2)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	36.74	63.48	68.86	68.52	69.36	73.64	75.06	72.12	71.70	65.64	81.09	80.27	Signal (dB)
	14.62	34.32	34.70	23.18	13.96	8.42	-14.22	-15.02	-14.21	-14.40	38.59	27.16	Noise (dB)
	-32.26	-5.52	-0.14	-0.48	0.36	4.64	6.06	3.12	2.70	-3.36	4.09	3.27	G (dB)
	-1.76	-8.94	-8.88	-8.91	-5.08	-4.68	-4.61	-2.71	1.77	2.89	-3.64	-3.37	C50 (dB)
	-0.99	-7.34	-6.78	-6.76	-3.66	-3.55	-2.76	-1.45	3.63	7.08	-2.24	-1.93	C80 (dB)
	40.03	11.33	11.47	11.38	23.71	25.41	25.69	34.87	60.07	66.07	30.20	31.51	D50 (%)
	243.29	444.95	485.11	374.27	333.92	284.84	231.63	163.70	67.55	37.25	241.50	214.19	Ts (ms)
	3.79	5.54	6.80	5.48	5.01	4.37	3.60	2.66	1.40	0.79	4.04	3.57	EDT (s)
	3.10	4.89	7.38	5.12	4.98	4.44	3.64	2.70	1.49	0.65	4.50	3.82	Tuser (s)
	3.48	7.98	7.77	5.64	4.98	4.49	3.58	2.82	1.55	0.70	5.06	3.99	T20 (s)
	3.36	8.30	7.70	5.97	4.99	4.52	3.59	2.81	1.60	0.74	5.76	4.16	T30 (s)
	22.41	19.11	18.46	21.21	24.80	27.94	31.83	31.49	43.32	43.56	36.01	35.73	Peakiness[dB]
	22.34	18.88	17.70	18.90	21.59	24.02	25.67	26.25	32.26	33.22	27.11	27.00	Millisecs[dB]
	17.04	14.65	12.03	13.70	15.26	15.76	15.83	17.40	19.84	20.31	16.85	16.60	Impulsivs[dB]

Channel: Left / Right
Tuser limits: (-5. dB, -15. dB)
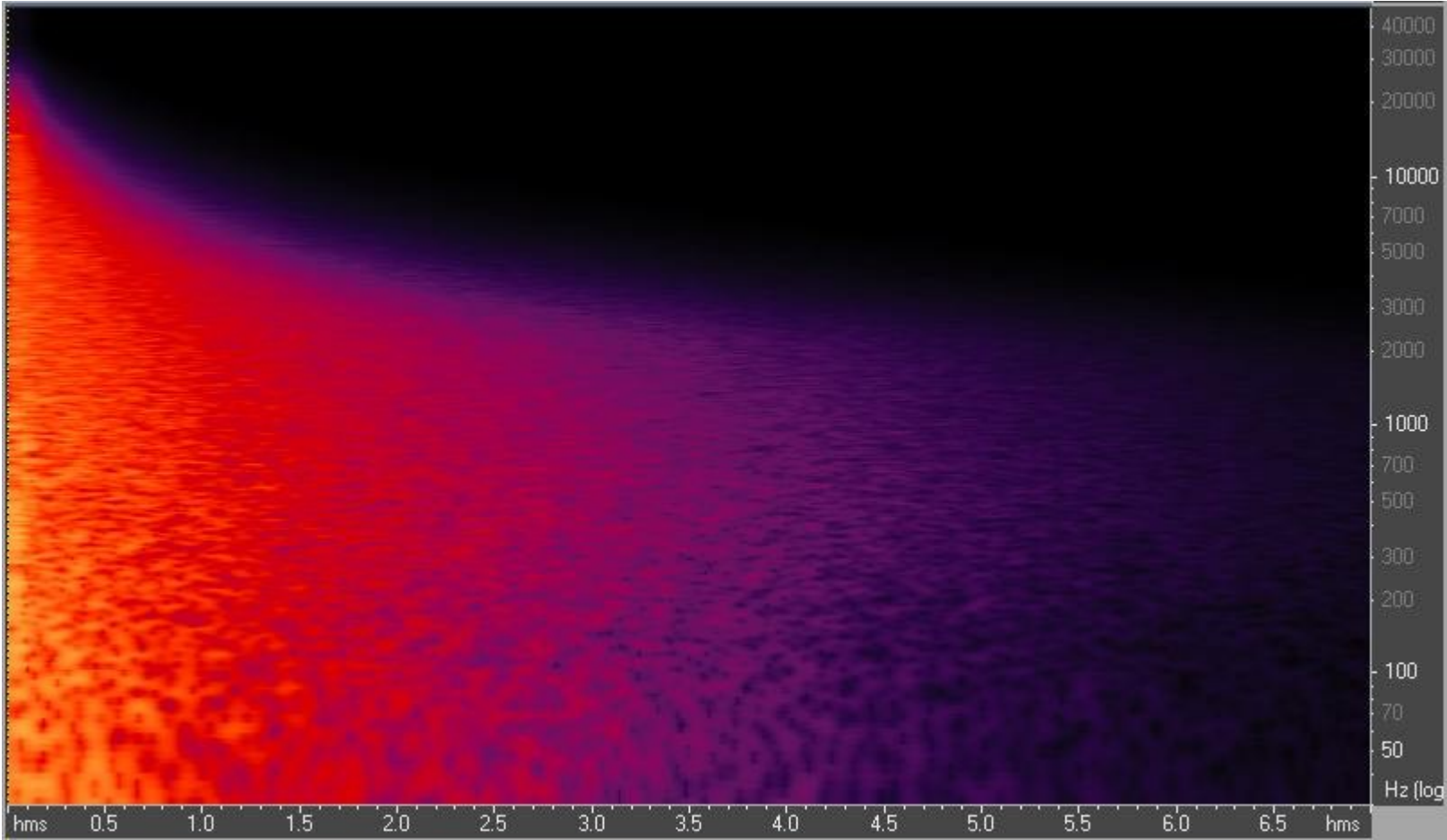Adobe Audition - AB_C_dcrb1

List of IRs in the collection - 4 items

```
Sonus Paradisi, Hall, Praha Hvezda.krb, omni 3m C (5s)
Sonus Paradisi, Hall, Praha Hvezda.krb, omni 3m LR (5s)
Sonus Paradisi, Hall, Praha Hvezda.krb, ortf 3m C (5s)
Sonus Paradisi, Hall, Praha Hvezda.krb, ortf 3m LR (5s)
```
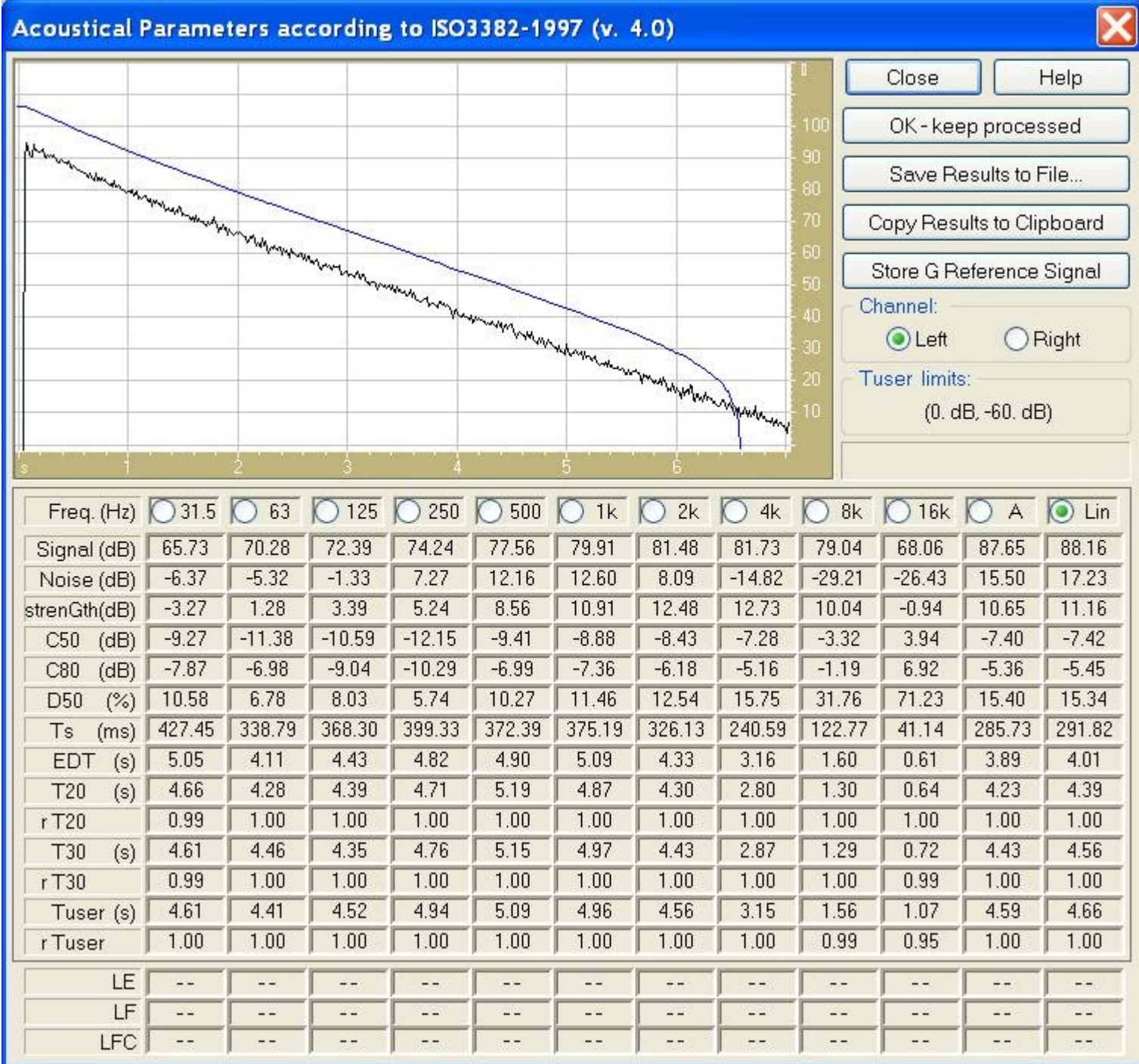
Tr315

An artificial true stereo IR, a slightly resonant space with pronounced early reflections, 2 versions. Reverberation time about 5 s.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	○ 31.5	○ 63	○ 125	○ 250	○ 500	○ 1k	○ 2k	○ 4k	○ 8k	○ 16k	○ A	● Lin
Signal (dB)	65.73	70.28	72.39	74.24	77.56	79.91	81.48	81.73	79.04	68.06	87.65	88.16
Noise (dB)	-6.37	-5.32	-1.33	7.27	12.16	12.60	8.09	-14.82	-29.21	-26.43	15.50	17.23
strenGth(dB)	-3.27	1.28	3.39	5.24	8.56	10.91	12.48	12.73	10.04	-0.94	10.65	11.16
C50 (dB)	-9.27	-11.38	-10.59	-12.15	-9.41	-8.88	-8.43	-7.28	-3.32	3.94	-7.40	-7.42
C80 (dB)	-7.87	-6.98	-9.04	-10.29	-6.99	-7.36	-6.18	-5.16	-1.19	6.92	-5.36	-5.45
D50 (%)	10.58	6.78	8.03	5.74	10.27	11.46	12.54	15.75	31.76	71.23	15.40	15.34
Ts (ms)	427.45	338.79	368.30	399.33	372.39	375.19	326.13	240.59	122.77	41.14	285.73	291.82
EDT (s)	5.05	4.11	4.43	4.82	4.90	5.09	4.33	3.16	1.60	0.61	3.89	4.01
T20 (s)	4.66	4.28	4.39	4.71	5.19	4.87	4.30	2.80	1.30	0.64	4.23	4.39
r T20	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	4.61	4.46	4.35	4.76	5.15	4.97	4.43	2.87	1.29	0.72	4.43	4.56
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	4.61	4.41	4.52	4.94	5.09	4.96	4.56	3.15	1.56	1.07	4.59	4.66
r Tuser	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

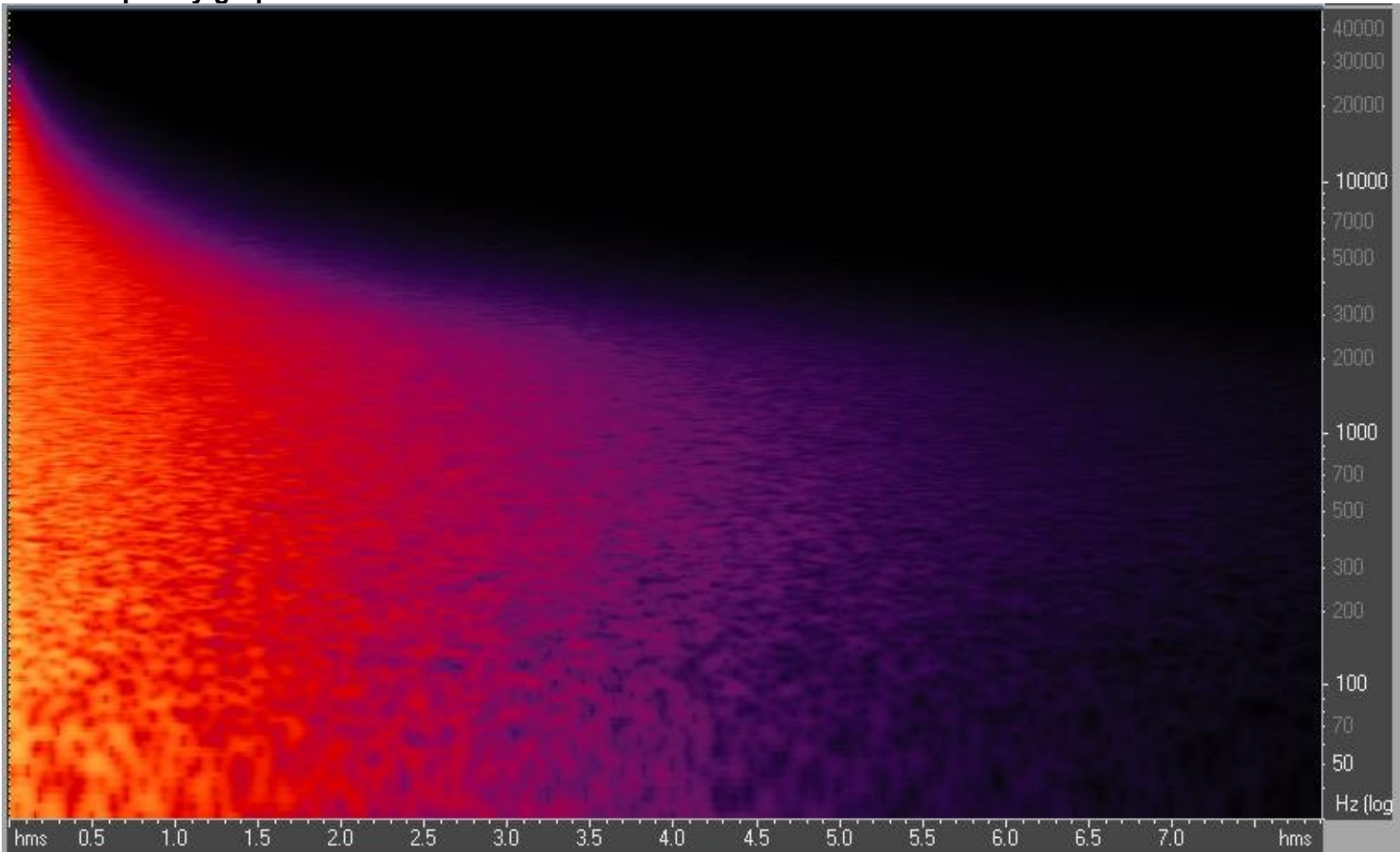**List of IRs in the collection - 2 items**

```
Sonus Paradisi, Church, Tr315, Artificial LR (5s)
Sonus Paradisi, Church, Tr315cmasy, Artificial LR (5s)
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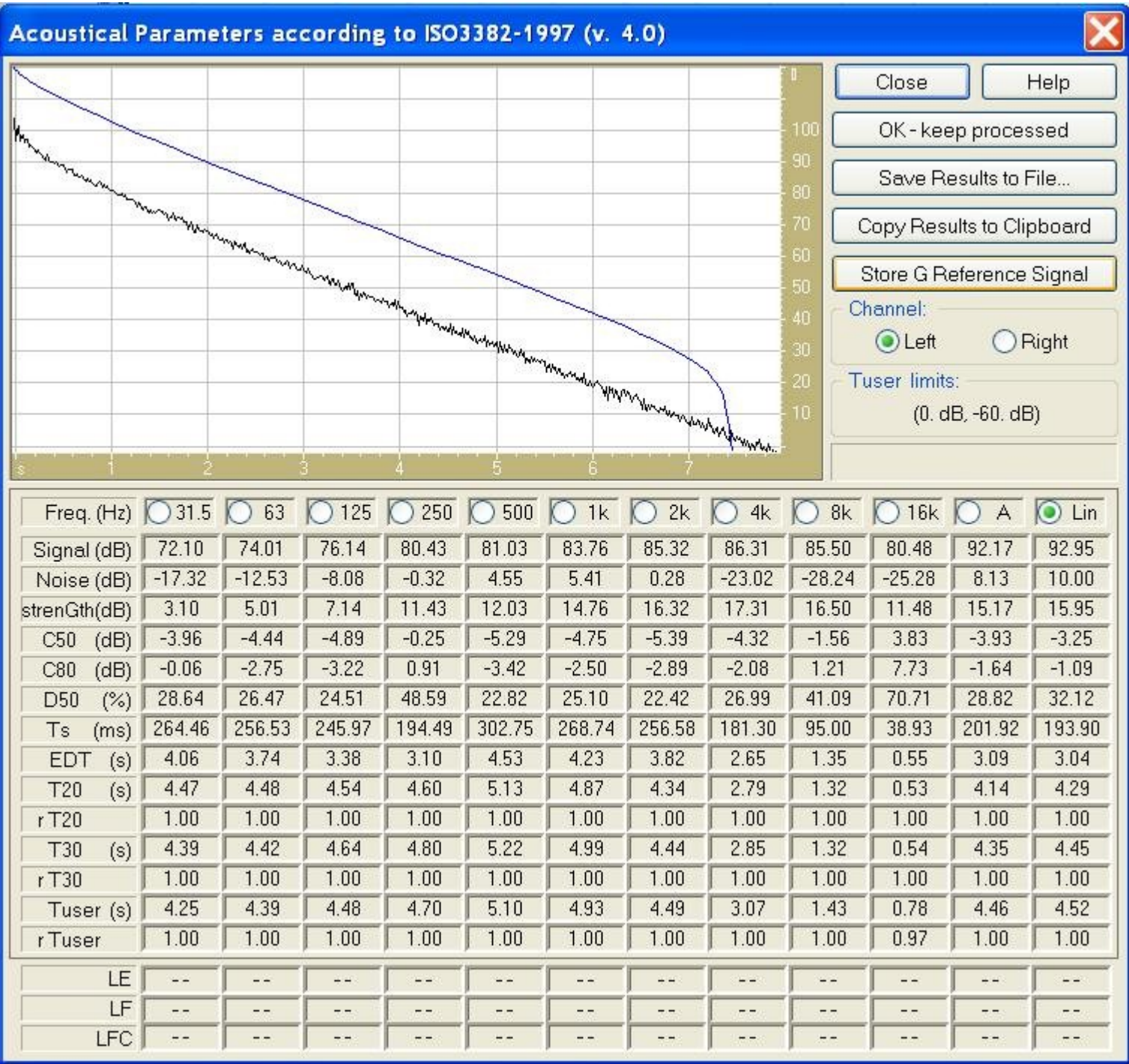cmasy variant with attenuated early reflections for crossfeed channel.

Ty 95

An artificial true stereo IR, universal for any large organ, about 5 seconds.

Time/Frequency graph

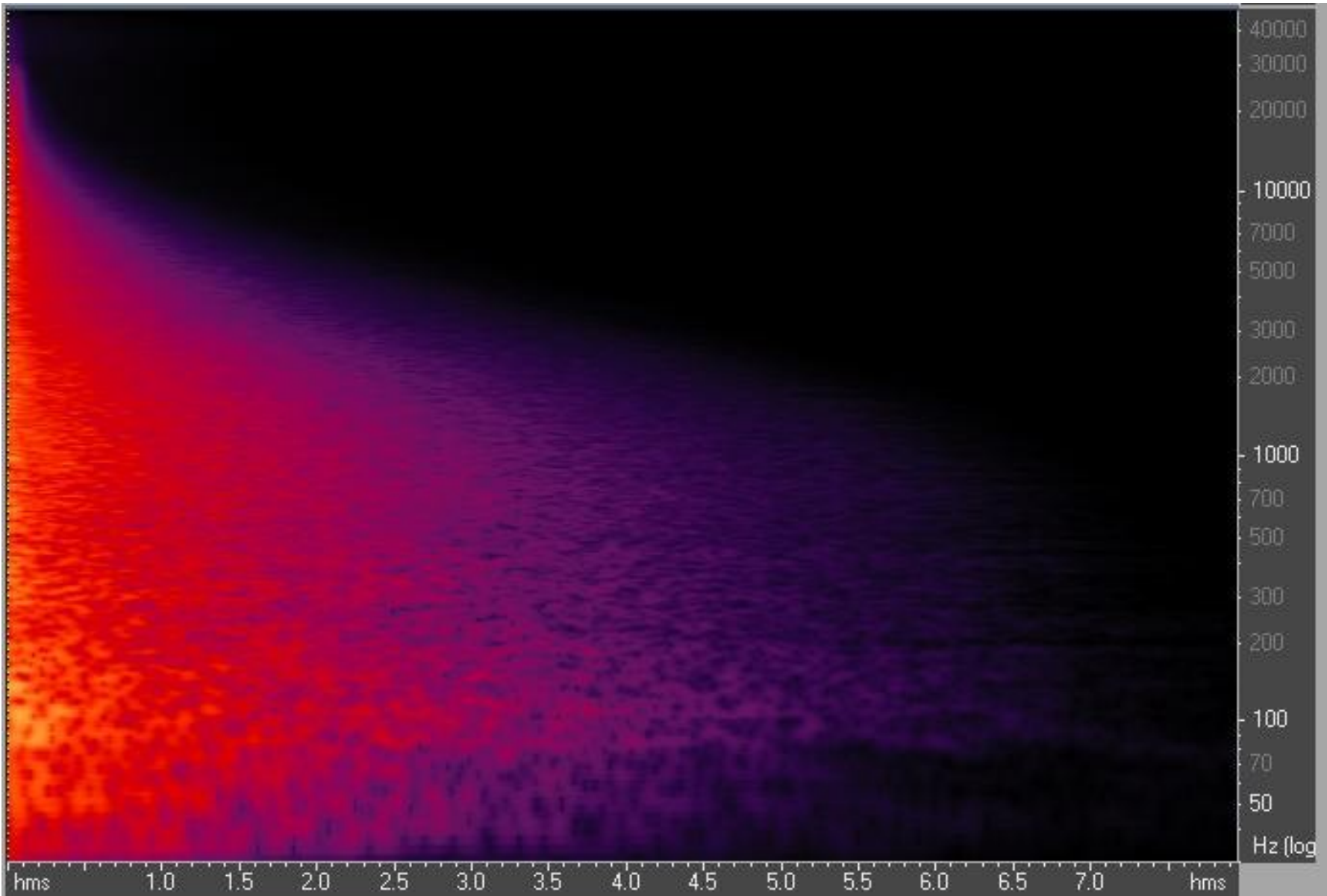**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

List of IRs in the collection - 1 item
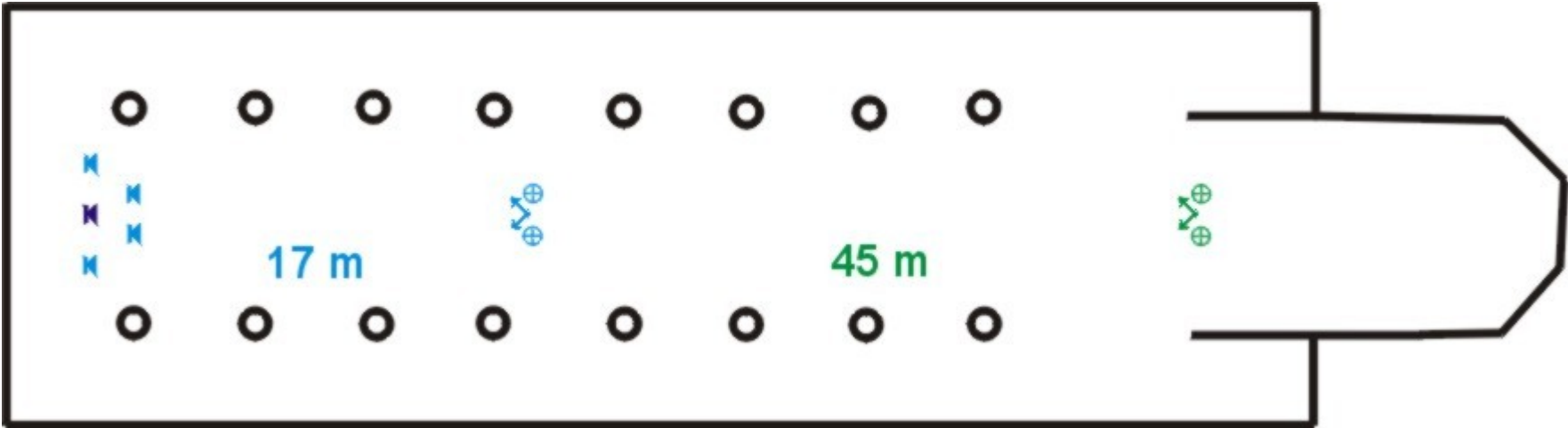Sonus Paradisi, Church, Ty95, Artificial LR (5.2s)

Zkr52

A large collection of impulse responses of the monastery church of Zlatá Koruna (CZ). Reverberation time approx. 5 s. The IRs represent a large and long romanesque-gothic church. 6 positions of microphones, 5 positions of the source. HW position is typical for a Hauptwerk or a Pedal of an instrument, RP position represents the Ruckpositiv of the organ.
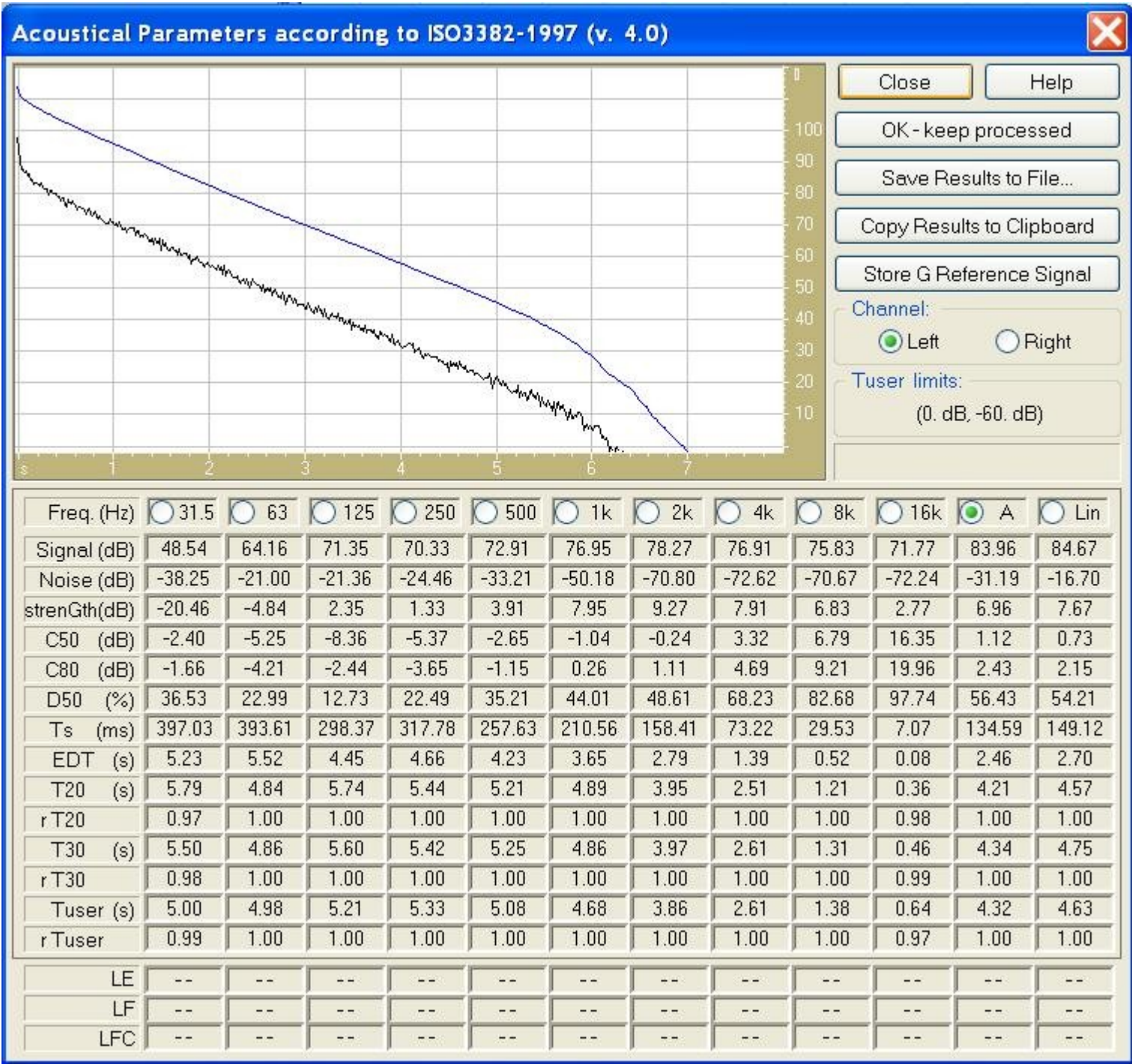
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

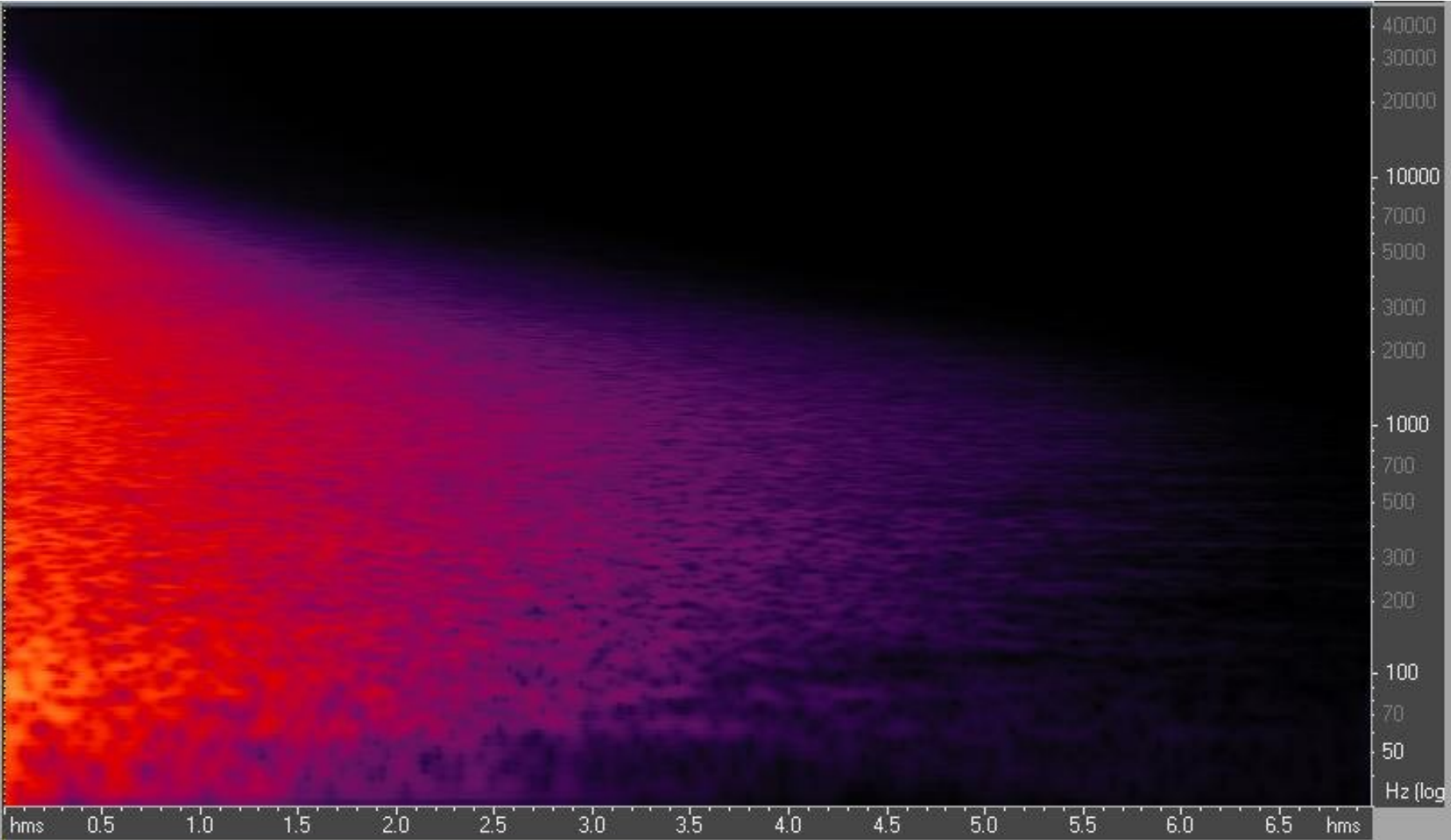| Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	48.54	64.16	71.35	70.33	72.91	76.95	78.27	76.91	75.83	71.77	83.96	84.67
Noise (dB)	-38.25	-21.00	-21.36	-24.46	-33.21	-50.18	-70.80	-72.62	-70.67	-72.24	-31.19	-16.70
strenGth(dB)	-20.46	-4.84	2.35	1.33	3.91	7.95	9.27	7.91	6.83	2.77	6.96	7.67
C50 (dB)	-2.40	-5.25	-8.36	-5.37	-2.65	-1.04	-0.24	3.32	6.79	16.35	1.12	0.73
C80 (dB)	-1.66	-4.21	-2.44	-3.65	-1.15	0.26	1.11	4.69	9.21	19.96	2.43	2.15
D50 (%)	36.53	22.99	12.73	22.49	35.21	44.01	48.61	68.23	82.68	97.74	56.43	54.21
Ts (ms)	397.03	393.61	298.37	317.78	257.63	210.56	158.41	73.22	29.53	7.07	134.59	149.12
EDT (s)	5.23	5.52	4.45	4.66	4.23	3.65	2.79	1.39	0.52	0.08	2.46	2.70
T20 (s)	5.79	4.84	5.74	5.44	5.21	4.89	3.95	2.51	1.21	0.36	4.21	4.57
r T20	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00
T30 (s)	5.50	4.86	5.60	5.42	5.25	4.86	3.97	2.61	1.31	0.46	4.34	4.75
r T30	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	5.00	4.98	5.21	5.33	5.08	4.68	3.86	2.61	1.38	0.64	4.32	4.63
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 18 items
```
Sonus Paradisi, Church, ZlataKoruna P.Marie, NOS 45m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, NOS 45m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, NOS 45m RP LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 17m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 17m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 17m RP LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 45m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 45m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omni 45m RP LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omniR 17m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omniR 17m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, omniR 17m RP LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, ortf 17m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, ortf 17m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, ortf 17m RP LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, rear 17m HW C (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, rear 17m HW LR (5.2s)
Sonus Paradisi, Church, ZlataKoruna P.Marie, rear 17m RP LR (5.2s)
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One IR is a part of the Hauptwerk demo IR set, with the name:
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HauptwerkReverb-Church10-NOS-45m-LR-5.2s
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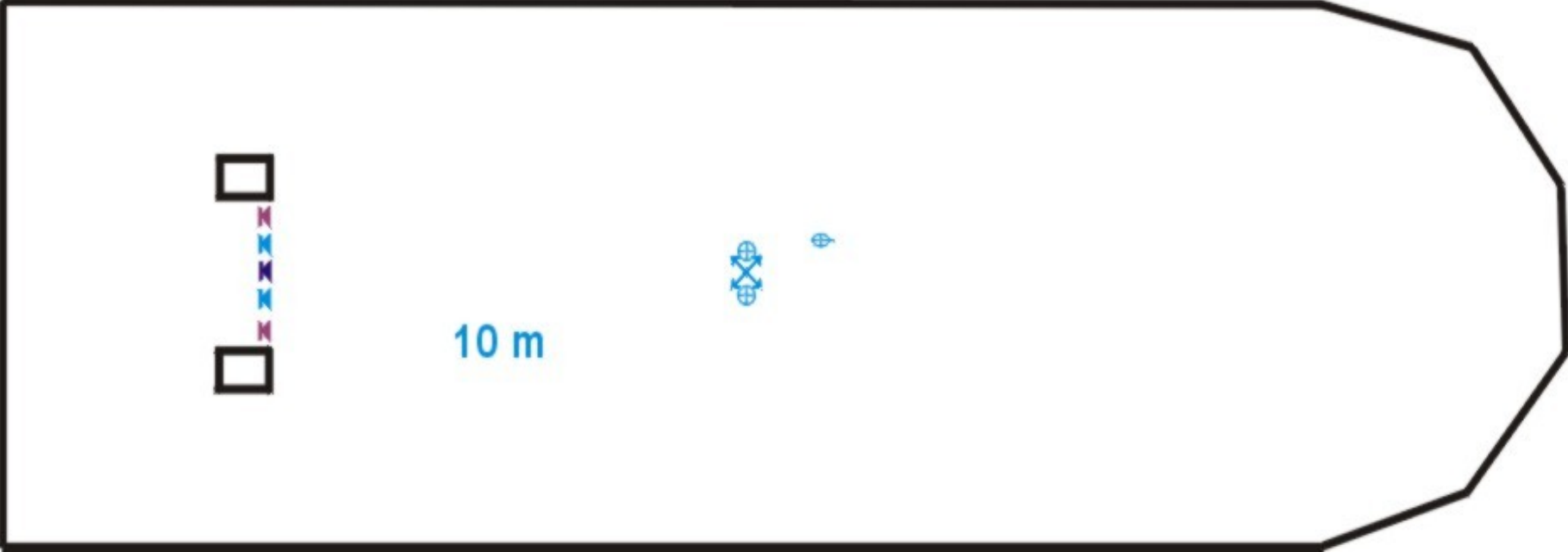
Pms53

A collection of IRs of the church of Panna Maria Sněžná in Prague (CZ). Reverberation time approx. 5 s. The IRs represent a high gothic church. Four microphone techniques and 5 positions of the source available.
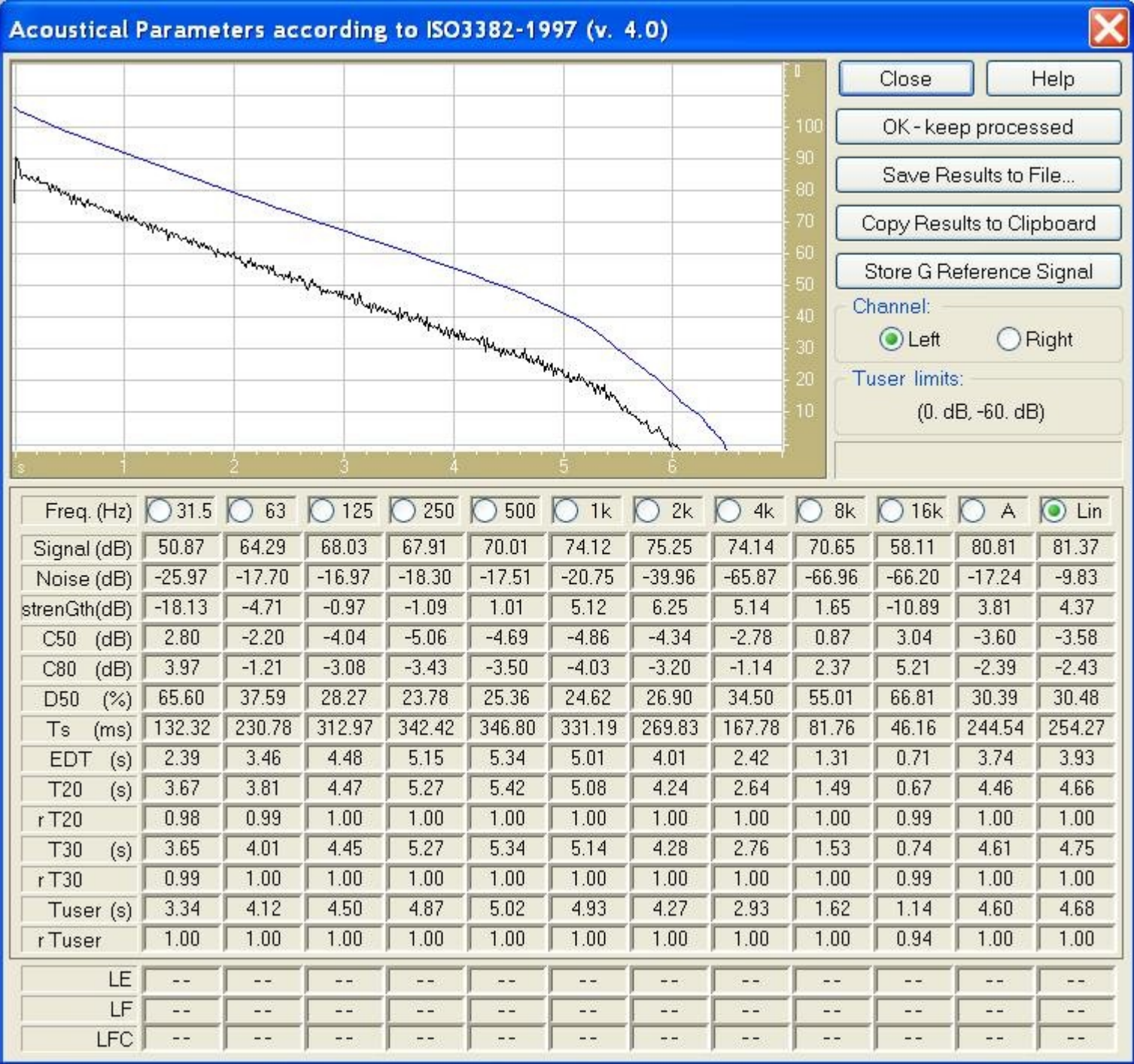
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	50.87	64.29	68.03	67.91	70.01	74.12	75.25	74.14	70.65	58.11	80.81	81.37
Noise (dB)	-25.97	-17.70	-16.97	-18.30	-17.51	-20.75	-39.96	-65.87	-66.96	-66.20	-17.24	-9.83
strenGth(dB)	-18.13	-4.71	-0.97	-1.09	1.01	5.12	6.25	5.14	1.65	-10.89	3.81	4.37
C50 (dB)	2.80	-2.20	-4.04	-5.06	-4.69	-4.86	-4.34	-2.78	0.87	3.04	-3.60	-3.58
C80 (dB)	3.97	-1.21	-3.08	-3.43	-3.50	-4.03	-3.20	-1.14	2.37	5.21	-2.39	-2.43
D50 (%)	65.60	37.59	28.27	23.78	25.36	24.62	26.90	34.50	55.01	66.81	30.39	30.48
Ts (ms)	132.32	230.78	312.97	342.42	346.80	331.19	269.83	167.78	81.76	46.16	244.54	254.27
EDT (s)	2.39	3.46	4.48	5.15	5.34	5.01	4.01	2.42	1.31	0.71	3.74	3.93
T20 (s)	3.67	3.81	4.47	5.27	5.42	5.08	4.24	2.64	1.49	0.67	4.46	4.66
r T20	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
T30 (s)	3.65	4.01	4.45	5.27	5.34	5.14	4.28	2.76	1.53	0.74	4.61	4.75
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	3.34	4.12	4.50	4.87	5.02	4.93	4.27	2.93	1.62	1.14	4.60	4.68
r Tuser	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.94	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

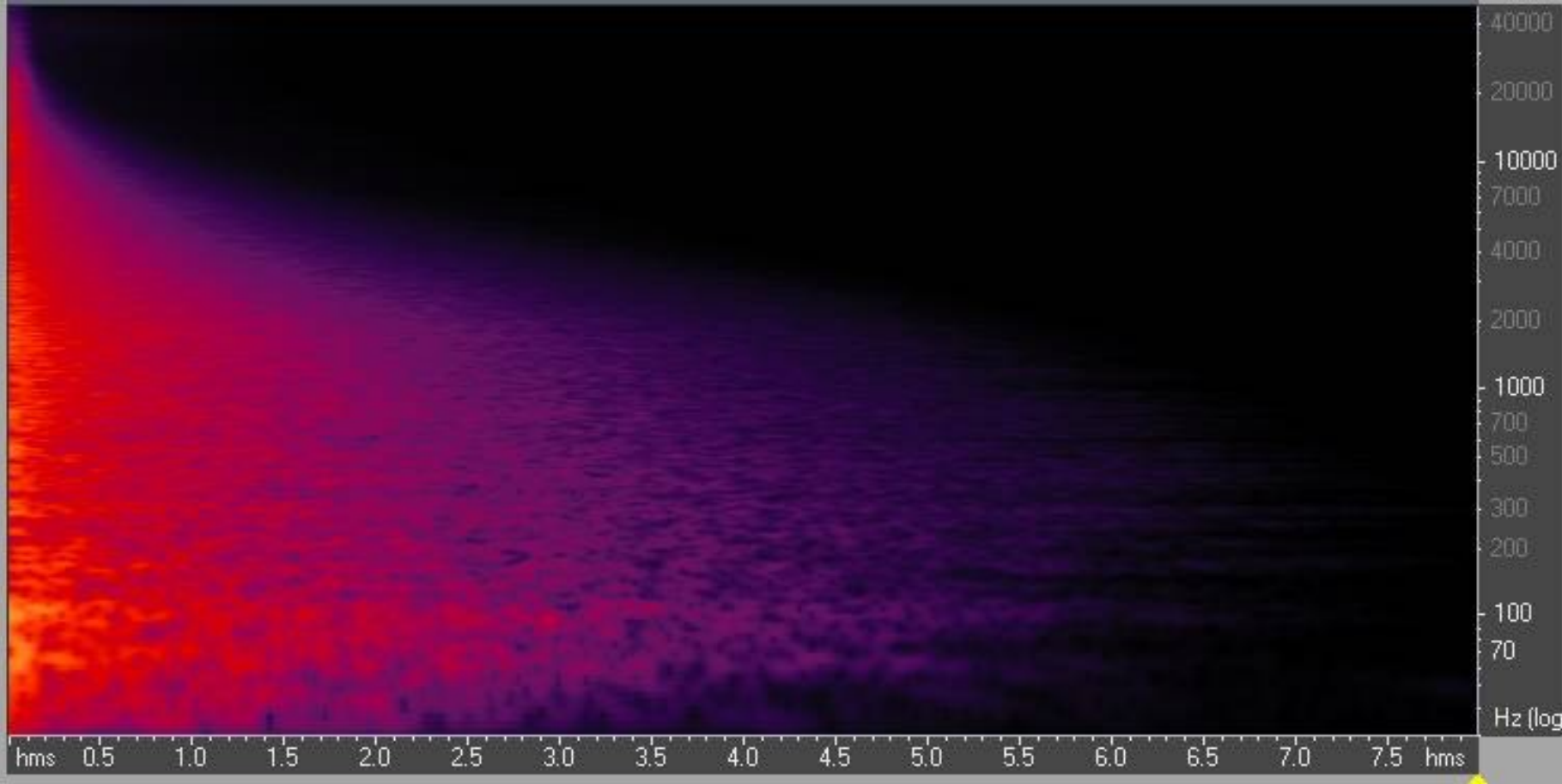Tuser limits: (0. dB, -60. dB)

List of IRs in the collection - 12 items

```
Sonus Paradisi, Church, Praha P.M.S., jecklin 10m C (5.3s)
Sonus Paradisi, Church, Praha P.M.S., jecklin 10m LR (5.3s)
Sonus Paradisi, Church, Praha P.M.S., jecklin 10m LRw (5.3s)
Sonus Paradisi, Church, Praha P.M.S., omni 10m C (5.3s)
Sonus Paradisi, Church, Praha P.M.S., omni 10m LR (5.3s)
Sonus Paradisi, Church, Praha P.M.S., omni 10m LRw (5.3s)
Sonus Paradisi, Church, Praha P.M.S., ortf 10m C (5.3s)
Sonus Paradisi, Church, Praha P.M.S., ortf 10m LR (5.3s)
Sonus Paradisi, Church, Praha P.M.S., ortf 10m LRw (5.3s)
Sonus Paradisi, Church, Praha P.M.S., rear 10m C (5.3s)
Sonus Paradisi, Church, Praha P.M.S., rear 10m LR (5.3s)
Sonus Paradisi, Church, Praha P.M.S., rear 10m LRw (5.3s)
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CN55

A large collection of impulse responses of the church of St. Etienne in Caen (FR), featuring the acoustics of a Romanesque Cathedral constructed from Jurassic limestone, giving unusually high clarity to the approx. 5.5 s long reverb. Positions of the sound sources are characterisic for organ divisions:
PO = Positif, PE = Pédale, GO = Grand Orgue, RE = Récit.
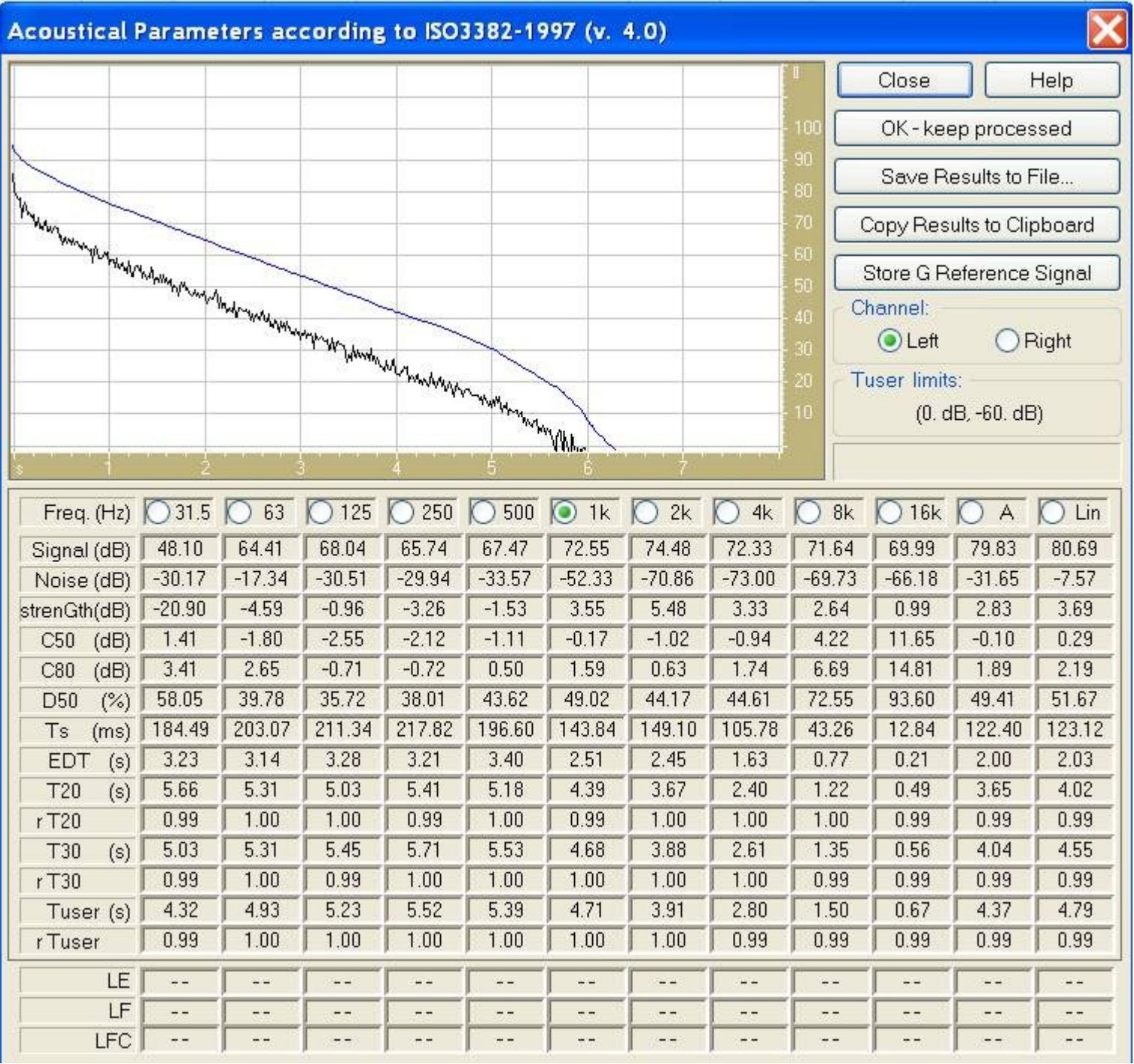GA = organ gallery, NA = main aisle.

Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

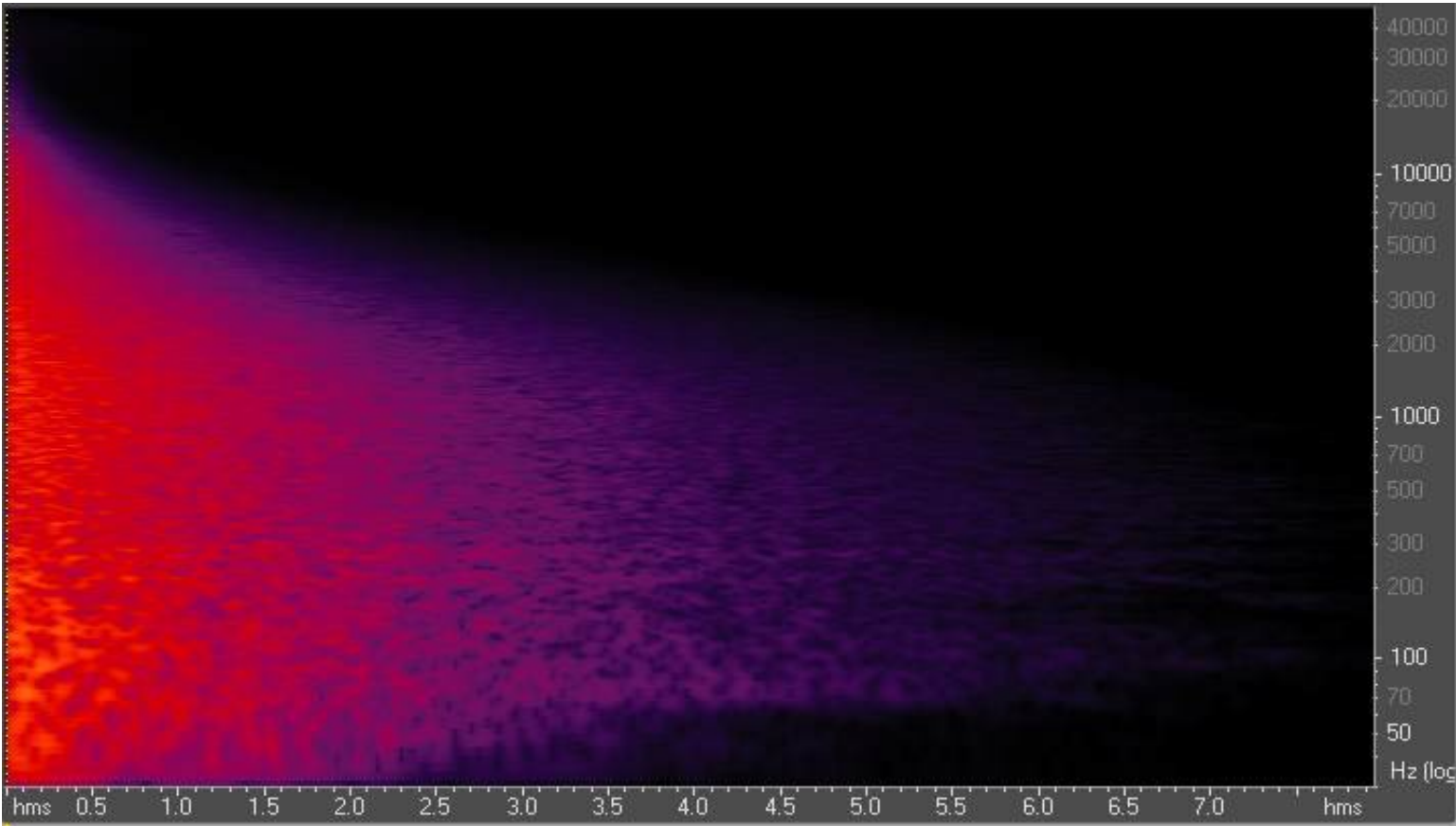| Freq. (Hz)	◯ 31.5	◯ 63	◯ 125	◯ 250	◯ 500	◉ 1k	◯ 2k	◯ 4k	◯ 8k	◯ 16k	◯ A	◯ Lin
Signal (dB)	48.10	64.41	68.04	65.74	67.47	72.55	74.48	72.33	71.64	69.99	79.83	80.69
Noise (dB)	-30.17	-17.34	-30.51	-29.94	-33.57	-52.33	-70.86	-73.00	-69.73	-66.18	-31.65	-7.57
strenGth(dB)	-20.90	-4.59	-0.96	-3.26	-1.53	3.55	5.48	3.33	2.64	0.99	2.83	3.69
C50 (dB)	1.41	-1.80	-2.55	-2.12	-1.11	-0.17	-1.02	-0.94	4.22	11.65	-0.10	0.29
C80 (dB)	3.41	2.65	-0.71	-0.72	0.50	1.59	0.63	1.74	6.69	14.81	1.89	2.19
D50 (%)	58.05	39.78	35.72	38.01	43.62	49.02	44.17	44.61	72.55	93.60	49.41	51.67
Ts (ms)	184.49	203.07	211.34	217.82	196.60	143.84	149.10	105.78	43.26	12.84	122.40	123.12
EDT (s)	3.23	3.14	3.28	3.21	3.40	2.51	2.45	1.63	0.77	0.21	2.00	2.03
T20 (s)	5.66	5.31	5.03	5.41	5.18	4.39	3.67	2.40	1.22	0.49	3.65	4.02
r T20	0.99	1.00	1.00	0.99	1.00	0.99	1.00	1.00	1.00	0.99	0.99	0.99
T30 (s)	5.03	5.31	5.45	5.71	5.53	4.68	3.88	2.61	1.35	0.56	4.04	4.55
r T30	0.99	1.00	0.99	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99
Tuser (s)	4.32	4.93	5.23	5.52	5.39	4.71	3.91	2.80	1.50	0.67	4.37	4.79
r Tuser	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 37 items
Sonus Paradisi, Church, Caen st.Etienne, 14m jecklin GA C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m jecklin GA LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m omni GA C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m omni GA LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m omni NA C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m ortf GA C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m ortf GA LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 14m rear NA C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m jecklin C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m jecklin LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m NOS C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m NOS LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m omni C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 28m omni LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni GO C1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni GO C2 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni GO Cu (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni GO LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni PE LR1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni PE LR2 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni PE LRu1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni PE LRu2 (6.0s)

List of IRs (continued)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni PO LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni RE C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m omni RE LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear GO C1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear GO C2 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear GO Cu (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear GO LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PE LR1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PE LR2 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PE LRu1 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PE LRu2 (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PO C (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear PO LR (6.0s)
Sonus Paradisi, Church, Caen st.Etienne, 6m rear RE C (6.0s)
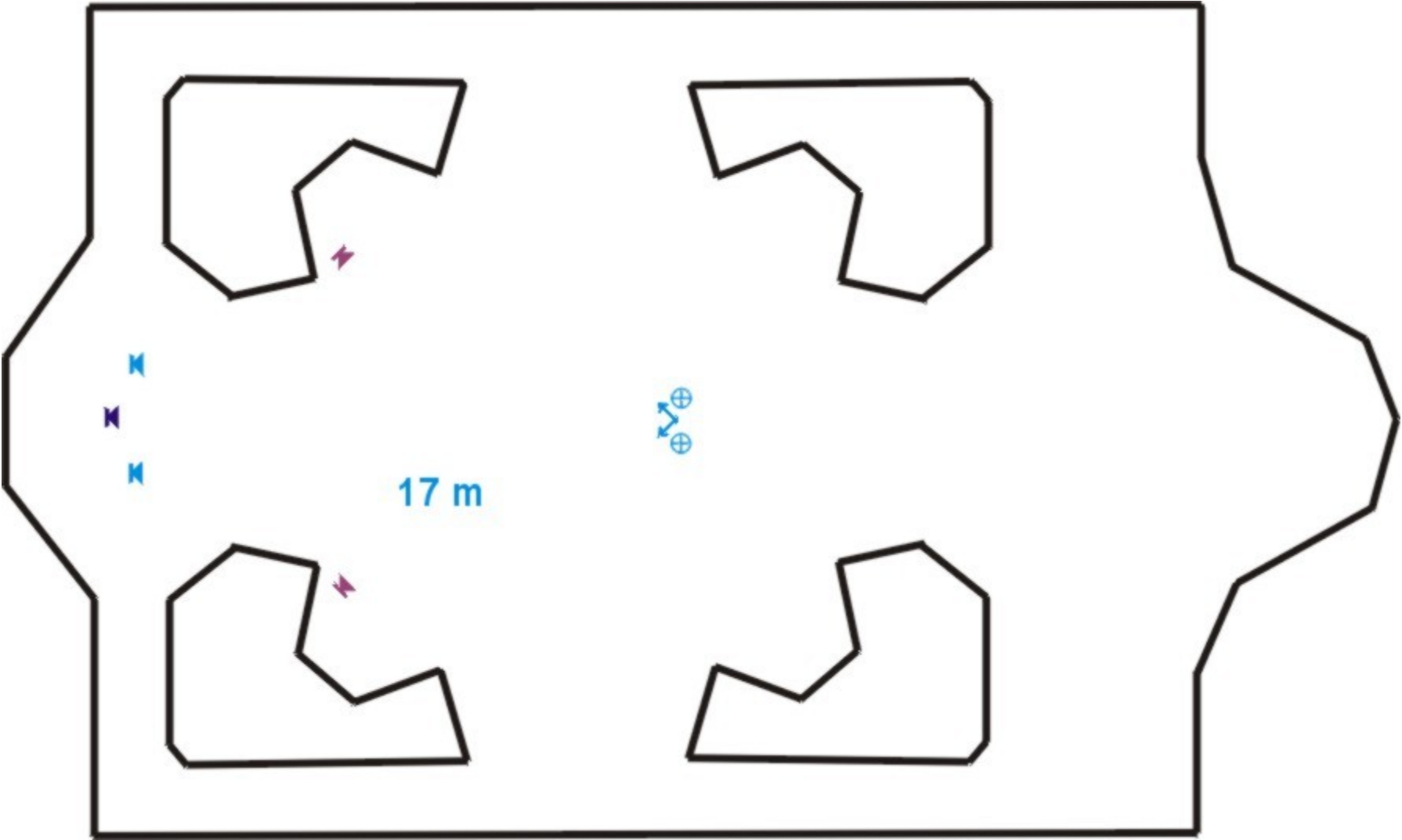Sonus Paradisi, Church, Caen st.Etienne, 6m rear RE LR (6.0s)

Jab57

A collection of IR of the church of Sv. Zdislava in Jablonné (CZ). Reverberation time approx. 5.7 s. The IRs represent a baroque church with a large dome. 5 different positions of the source, 2 mic positions. In addition, 2 special echo IRs representing the spectacular echo of the dome itself at the center of the church.
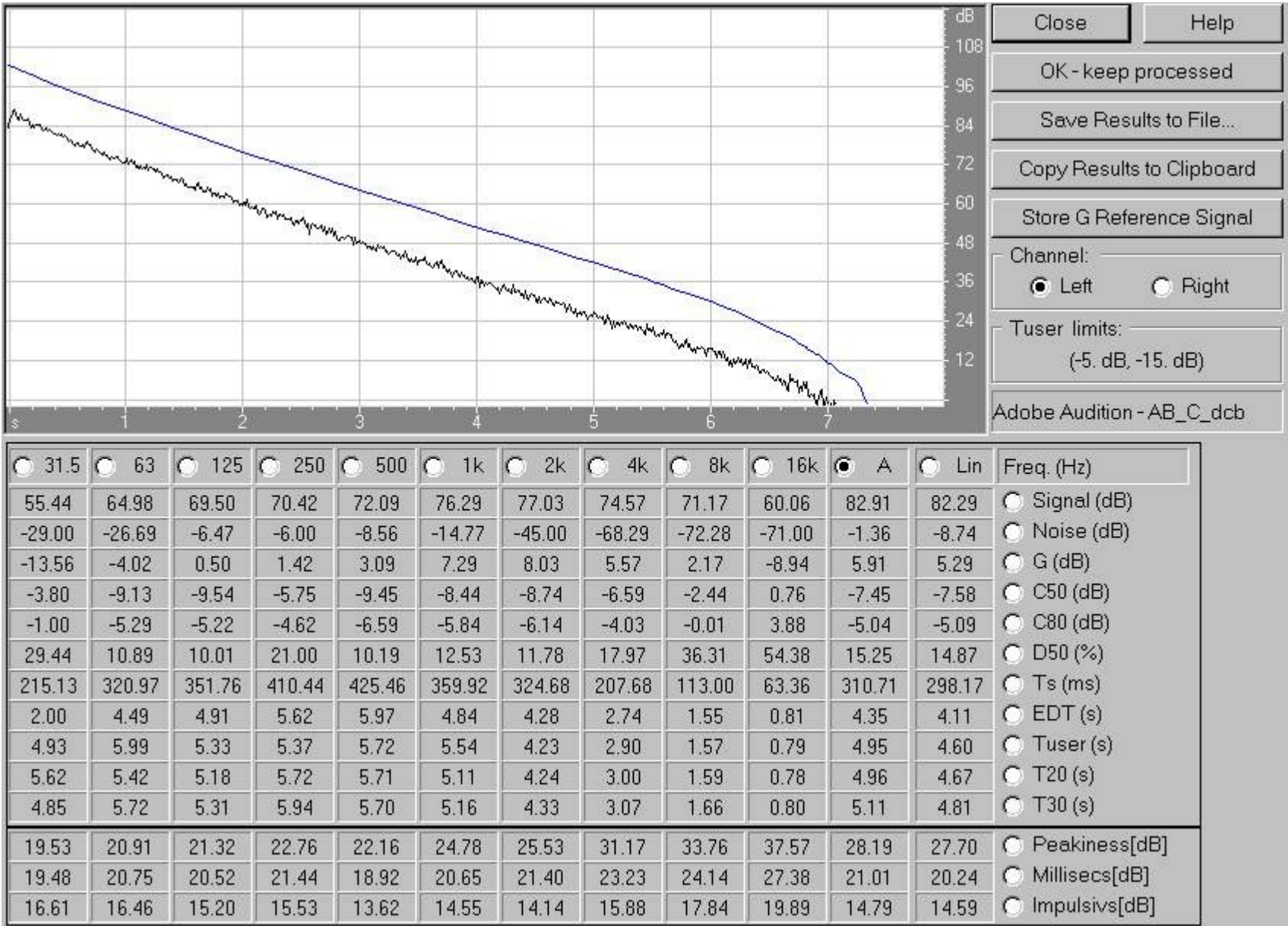
Time/Frequency graph

Source and microphone locations (scheme)

17 m

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	55.44	64.98	69.50	70.42	72.09	76.29	77.03	74.57	71.17	60.06	82.91	82.29	Signal (dB)
	-29.00	-26.69	-6.47	-6.00	-8.56	-14.77	-45.00	-68.29	-72.28	-71.00	-1.36	-8.74	Noise (dB)
	-13.56	-4.02	0.50	1.42	3.09	7.29	8.03	5.57	2.17	-8.94	5.91	5.29	G (dB)
	-3.80	-9.13	-9.54	-5.75	-9.45	-8.74	-6.59	-2.44	0.76	-7.45	-7.58	C50 (dB)
	-1.00	-5.29	-5.22	-4.62	-6.59	-5.84	-6.14	-4.03	-0.01	3.88	-5.04	-5.09	C80 (dB)
	29.44	10.89	10.01	21.00	10.19	12.53	11.78	17.97	36.31	54.38	15.25	14.87	D50 (%)
	215.13	320.97	351.76	410.44	425.46	359.92	324.68	207.68	113.00	63.36	310.71	298.17	Ts (ms)
	2.00	4.49	4.91	5.62	5.97	4.84	4.28	2.74	1.55	0.81	4.35	4.11	EDT (s)
	4.93	5.99	5.33	5.37	5.72	5.54	4.23	2.90	1.57	0.79	4.95	4.60	Tuser (s)
	5.62	5.42	5.18	5.72	5.71	5.11	4.24	3.00	1.59	0.78	4.96	4.67	T20 (s)
	4.85	5.72	5.31	5.94	5.70	5.16	4.33	3.07	1.66	0.80	5.11	4.81	T30 (s)
	19.53	20.91	21.32	22.76	22.16	24.78	25.53	31.17	33.76	37.57	28.19	27.70	Peakiness[dB]
	19.48	20.75	20.52	21.44	18.92	20.65	21.40	23.23	24.14	27.38	21.01	20.24	Millisecs[dB]
	16.61	16.46	15.20	15.53	13.62	14.55	14.14	15.88	17.84	19.89	14.79	14.59	Impulsivs[dB]

Close   Help
OK - keep processed
Save Results to File...
Copy Results to Clipboard
Store G Reference Signal

Channel:
● Left   ○ Right

Tuser limits:
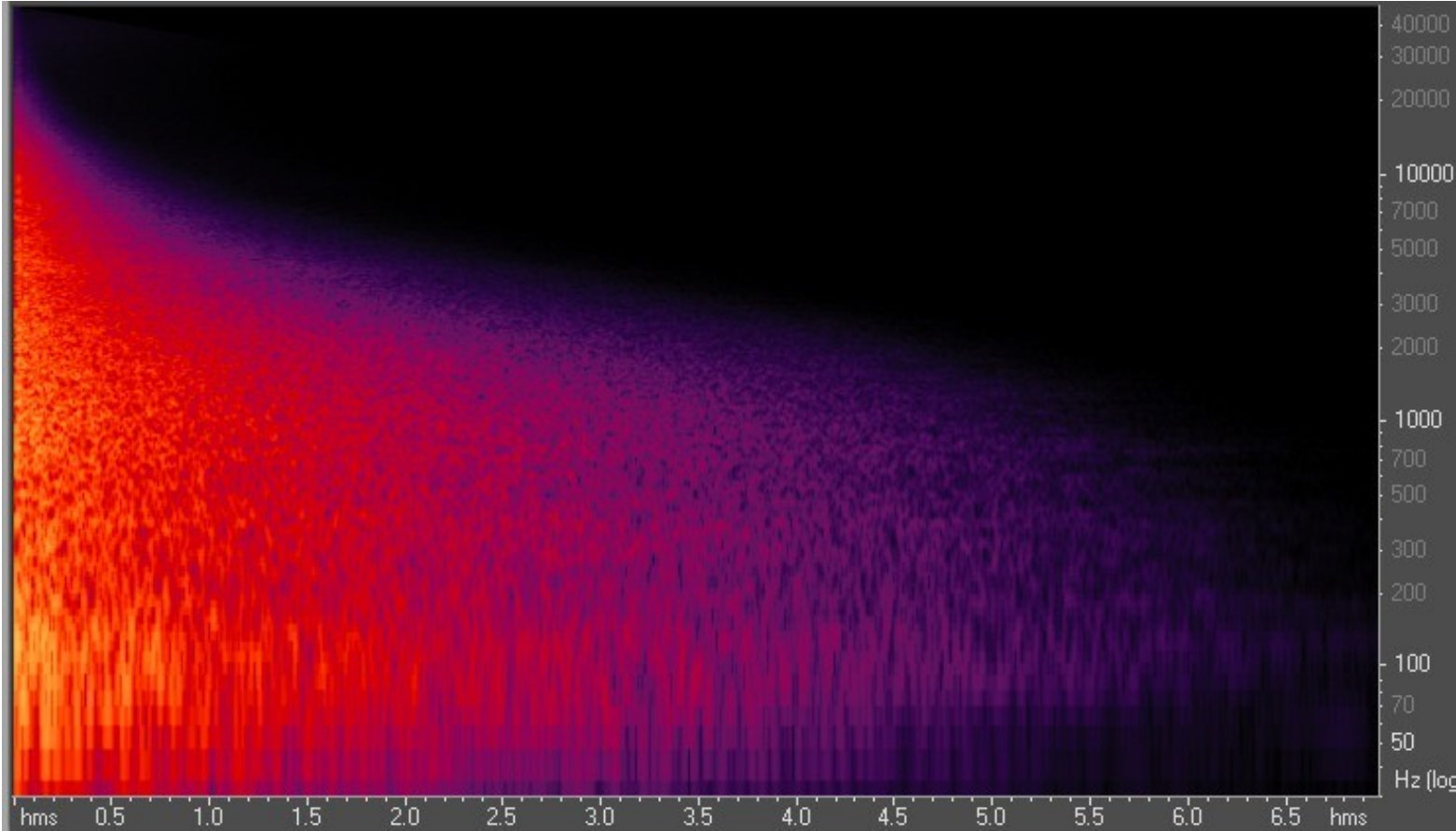(-5. dB, -15. dB)

Adobe Audition - AB_C_dcb

List of IRs in the collection - 14 items
```
Sonus Paradisi, Church, Jablonne sv.Zdislava, echoC (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, echoO (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m C (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m C2 (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m Cd (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m LR (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m LRb (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, omni 17m LRw (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m C (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m C2 (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m Cd (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m LR (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m LRb (5.9s)
Sonus Paradisi, Church, Jablonne sv.Zdislava, ortf 17m LRw (5.9s)
```
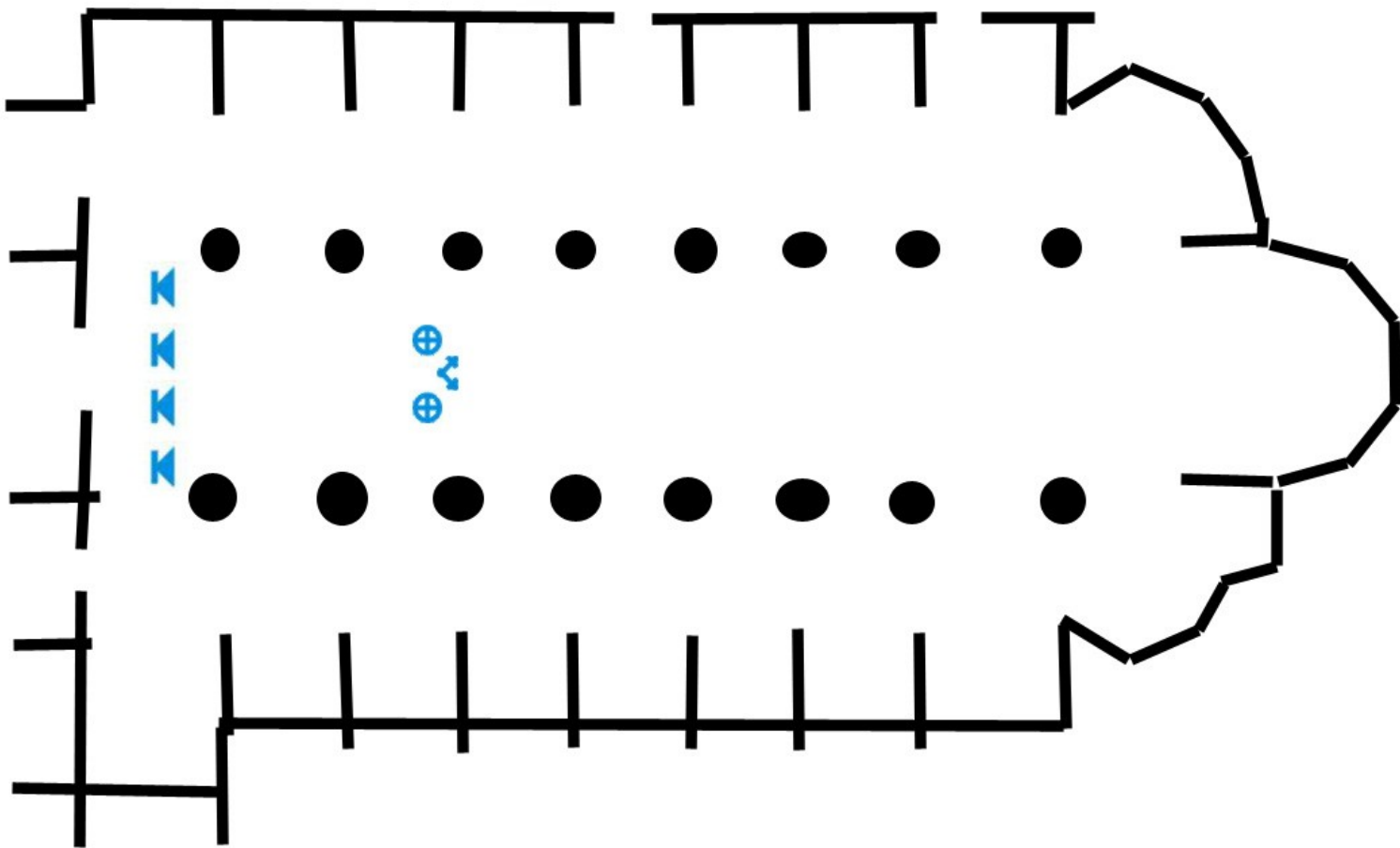
StMax57

A collection of impulse responses of the S. M.-Madeleine church in St. Maximin (FR), featuring the acoustics of a big gothic cathedral, approx. 5.7 s long. 2 microphone positions, 4 source positions.
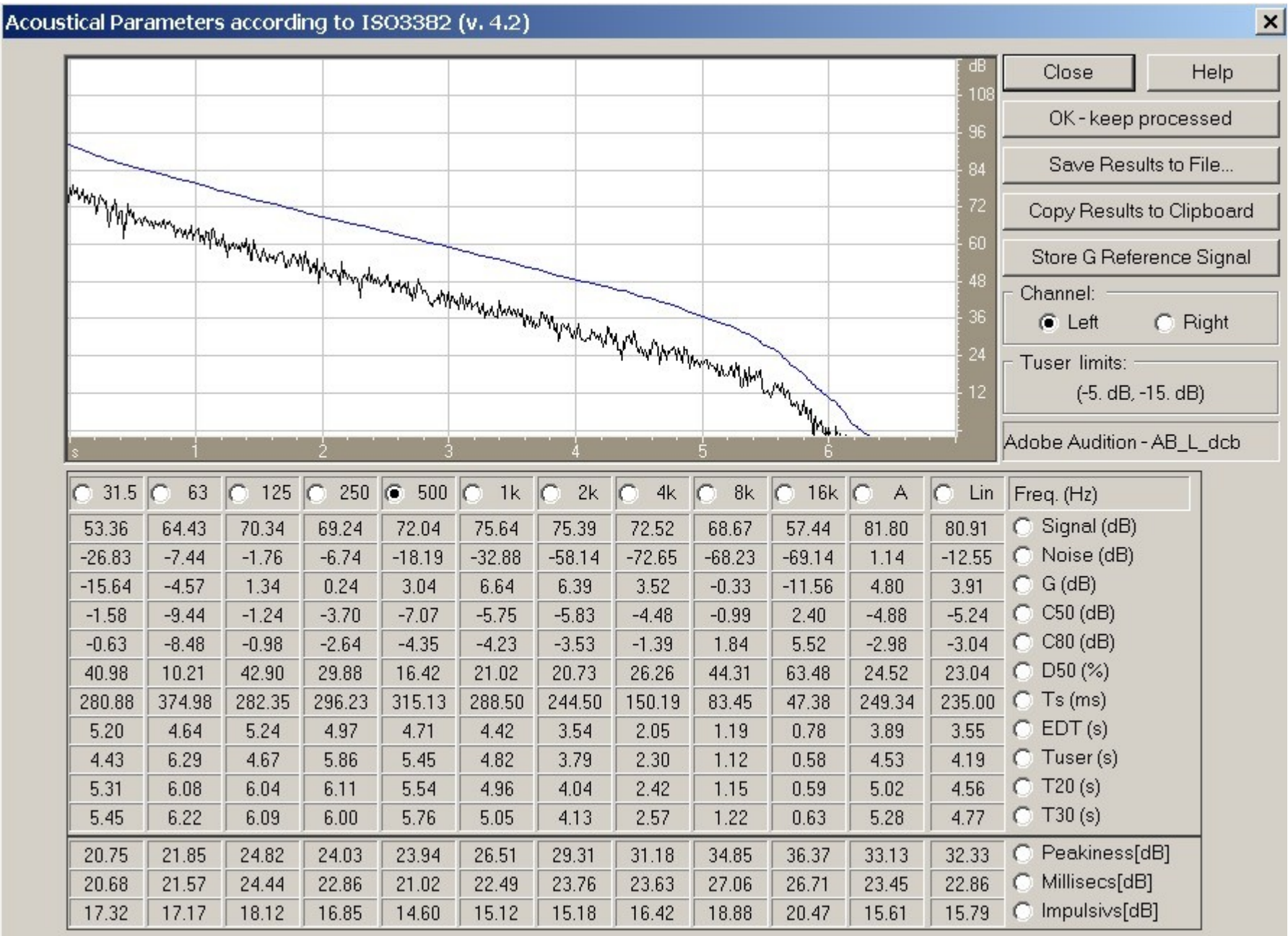
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
	53.36	64.43	70.34	69.24	72.04	75.64	75.39	72.52	68.67	57.44	81.80	80.91	Signal (dB)
	-26.83	-7.44	-1.76	-6.74	-18.19	-32.88	-58.14	-72.65	-68.23	-69.14	1.14	-12.55	Noise (dB)
	-15.64	-4.57	1.34	0.24	3.04	6.64	6.39	3.52	-0.33	-11.56	4.80	3.91	G (dB)
	-1.58	-9.44	-1.24	-3.70	-7.07	-5.75	-5.83	-4.48	-0.99	2.40	-4.88	-5.24	C50 (dB)
	-0.63	-8.48	-0.98	-2.64	-4.35	-4.23	-3.53	-1.39	1.84	5.52	-2.98	-3.04	C80 (dB)
	40.98	10.21	42.90	29.88	16.42	21.02	20.73	26.26	44.31	63.48	24.52	23.04	D50 (%)
	280.88	374.98	282.35	296.23	315.13	288.50	244.50	150.19	83.45	47.38	249.34	235.00	Ts (ms)
	5.20	4.64	5.24	4.97	4.71	4.42	3.54	2.05	1.19	0.78	3.89	3.55	EDT (s)
	4.43	6.29	4.67	5.86	5.45	4.82	3.79	2.30	1.12	0.58	4.53	4.19	Tuser (s)
	5.31	6.08	6.04	6.11	5.54	4.96	4.04	2.42	1.15	0.59	5.02	4.56	T20 (s)
	5.45	6.22	6.09	6.00	5.76	5.05	4.13	2.57	1.22	0.63	5.28	4.77	T30 (s)
	20.75	21.85	24.82	24.03	23.94	26.51	29.31	31.18	34.85	36.37	33.13	32.33	Peakiness[dB]
	20.68	21.57	24.44	22.86	21.02	22.49	23.76	23.63	27.06	26.71	23.45	22.86	Millisecs[dB]
	17.32	17.17	18.12	16.85	14.60	15.12	15.18	16.42	18.88	20.47	15.61	15.79	Impulsivs[dB]

List of IRs in the collection - 4 items
Sonus Paradisi, Church, St.Maximin S.M.Madeleine, omni 25m LR (5.7s)
Sonus Paradisi, Church, St.Maximin S.M.Madeleine, omni 25m LRw (5.7s)
Sonus Paradisi, Church, St.Maximin S.M.Madeleine, rear 25m LR (5.7s)
Sonus Paradisi, Church, St.Maximin S.M.Madeleine, rear 25m LRw (5.7s)
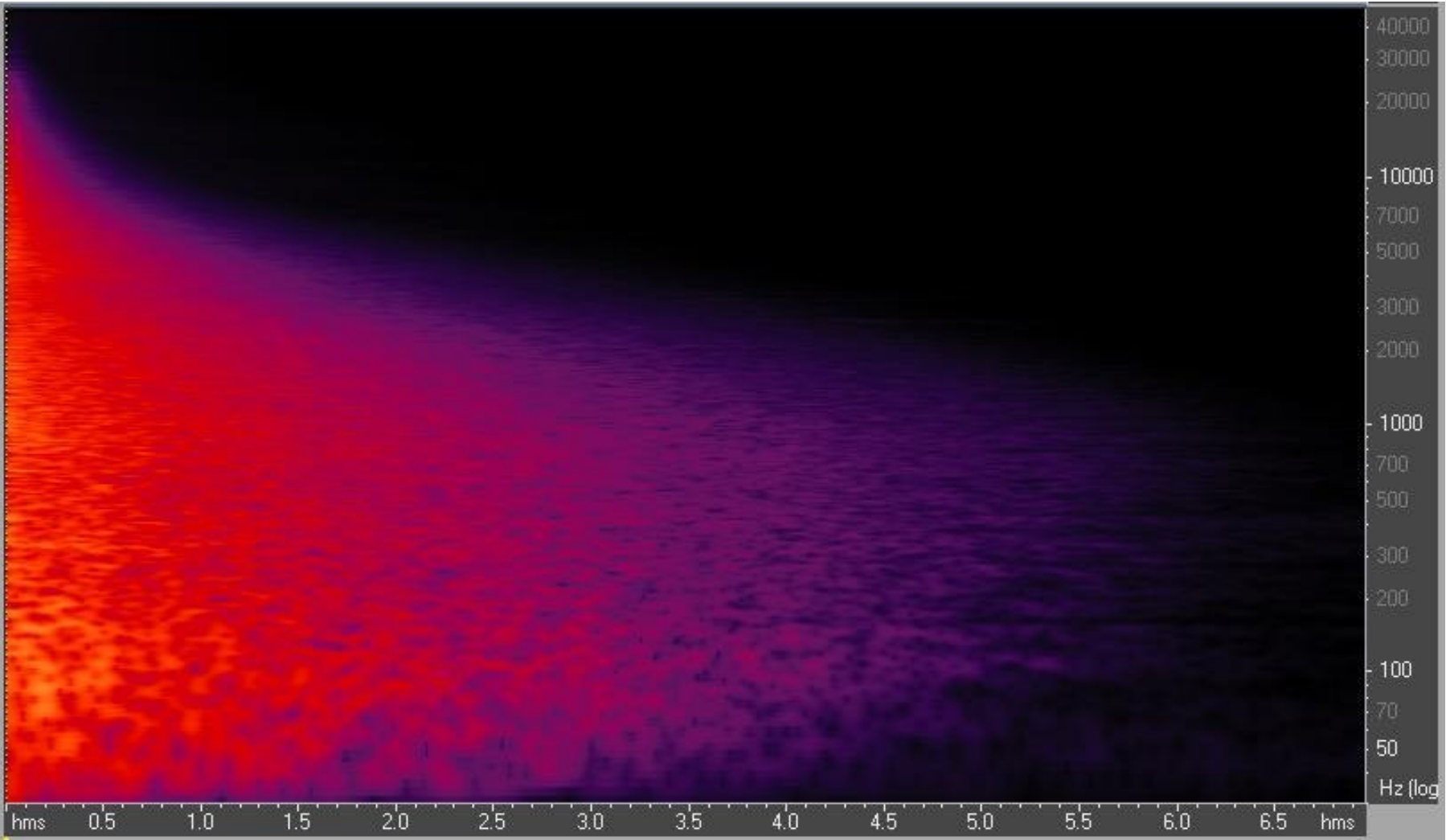
LR may be used for Positif, LRw for GO and Pédale.

One IR is a part of the Hauptwerk demo IR set, with the name:
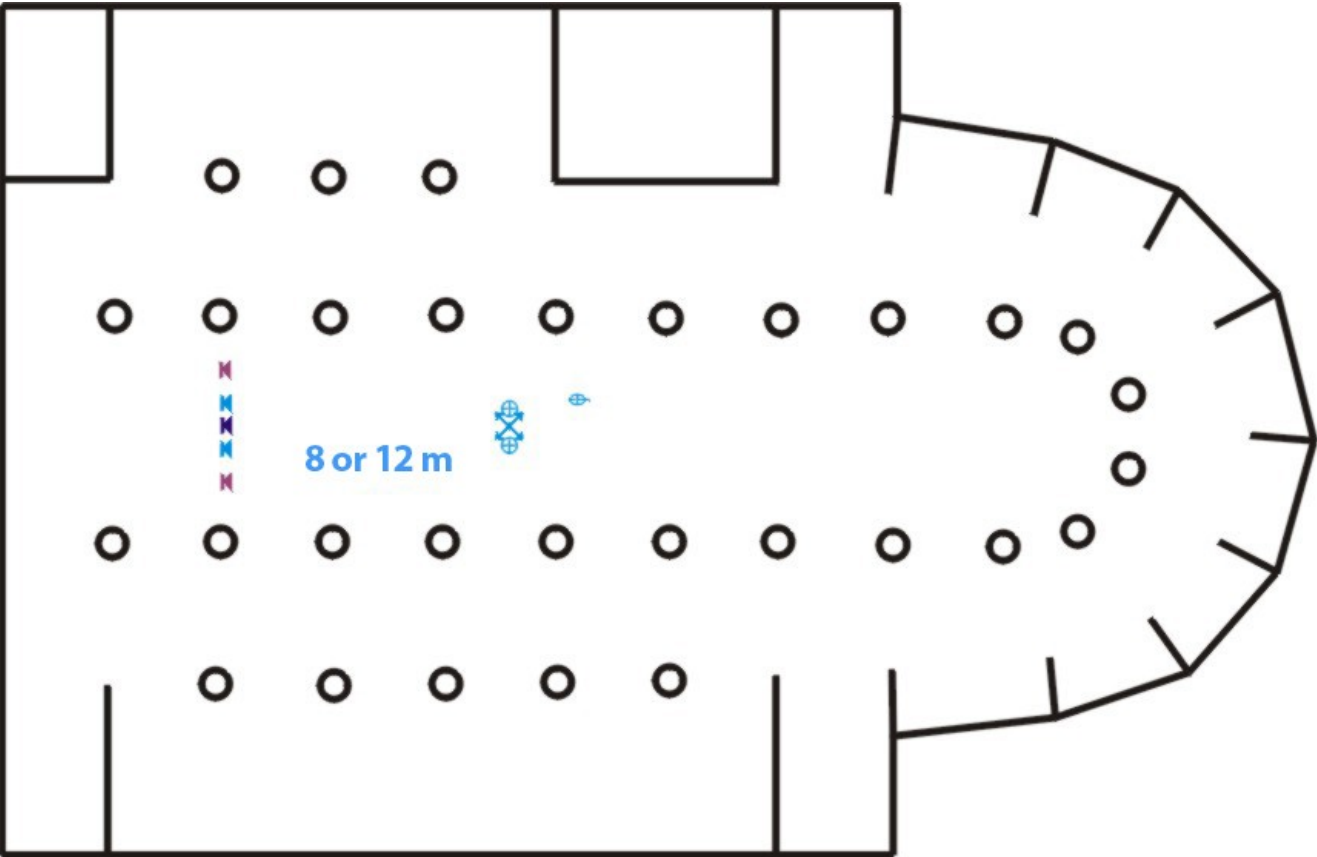HauptwerkReverb-Church09-Omni-25m-LR-5.7s

Bhk58

A collection of IRs of the church of sv. Barbora in Kutná Hora (CZ). Reverberation time approx. 6 s. The IRs represent a late-gothic cathedral with furniture inside. The reverb is rather damped with relatively high clarity compared to the volume of the space. You have 10 different positions of the source, 4 mic techniques.
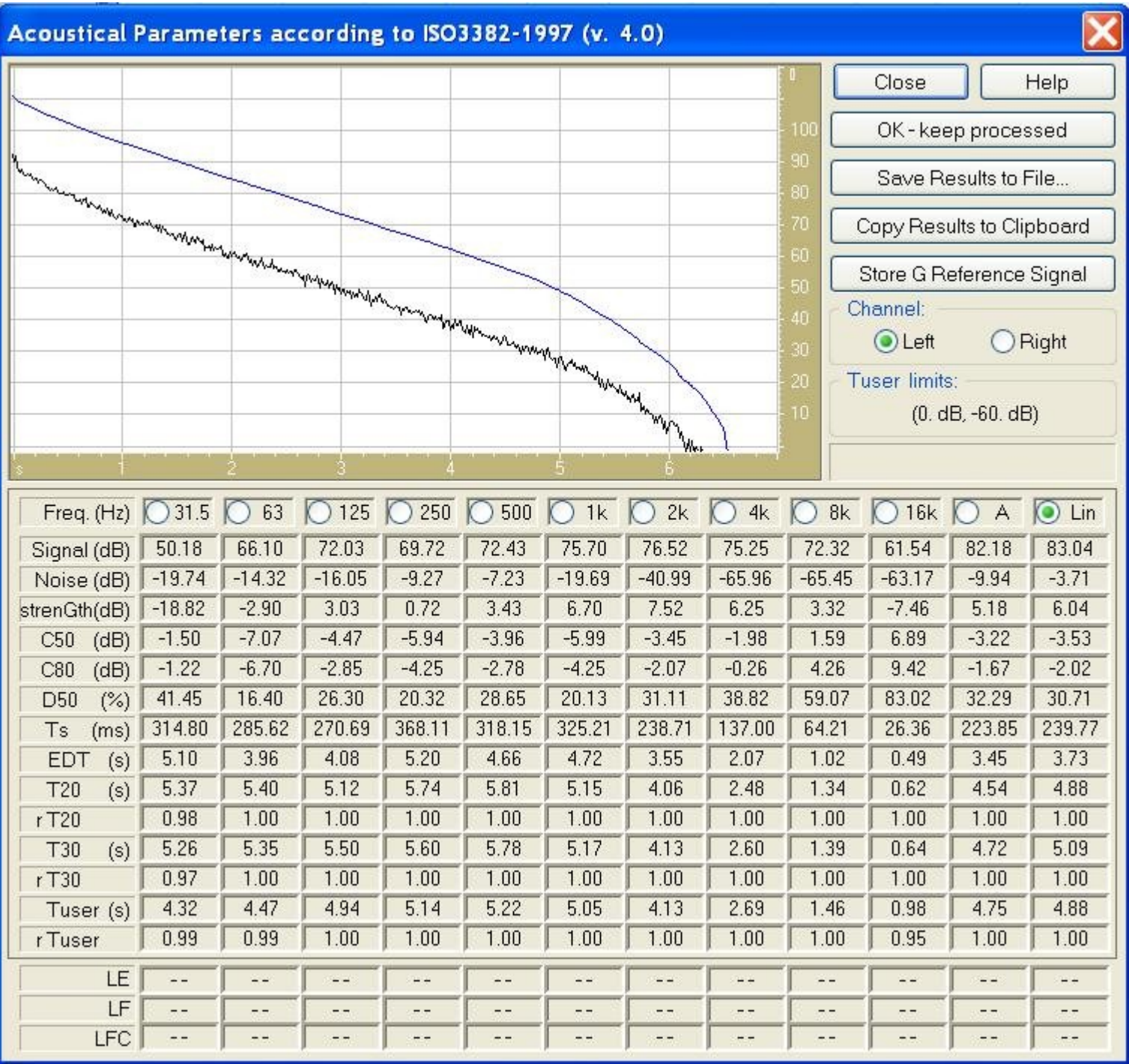
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	50.18	66.10	72.03	69.72	72.43	75.70	76.52	75.25	72.32	61.54	82.18	83.04
Noise (dB)	-19.74	-14.32	-16.05	-9.27	-7.23	-19.69	-40.99	-65.96	-65.45	-63.17	-9.94	-3.71
strenGth(dB)	-18.82	-2.90	3.03	0.72	3.43	6.70	7.52	6.25	3.32	-7.46	5.18	6.04
C50 (dB)	-1.50	-7.07	-4.47	-5.94	-3.96	-5.99	-3.45	-1.98	1.59	6.89	-3.22	-3.53
C80 (dB)	-1.22	-6.70	-2.85	-4.25	-2.78	-4.25	-2.07	-0.26	4.26	9.42	-1.67	-2.02
D50 (%)	41.45	16.40	26.30	20.32	28.65	20.13	31.11	38.82	59.07	83.02	32.29	30.71
Ts (ms)	314.80	285.62	270.69	368.11	318.15	325.21	238.71	137.00	64.21	26.36	223.85	239.77
EDT (s)	5.10	3.96	4.08	5.20	4.66	4.72	3.55	2.07	1.02	0.49	3.45	3.73
T20 (s)	5.37	5.40	5.12	5.74	5.81	5.15	4.06	2.48	1.34	0.62	4.54	4.88
r T20	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	5.26	5.35	5.50	5.60	5.78	5.17	4.13	2.60	1.39	0.64	4.72	5.09
r T30	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	4.32	4.47	4.94	5.14	5.22	5.05	4.13	2.69	1.46	0.98	4.75	4.88
r Tuser	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 15 items

```
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 12m omni C (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 12m omni LR (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 12m omni LRw (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m jecklin C (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m jecklin LR (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m jecklin LRw (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m omni C (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m omni LR (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m omni LRw (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m ortf C (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m ortf LR (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m ortf LRw (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m rear C (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m rear LR (5.7s)
Sonus Paradisi, Church, Kutna Hora sv.Barbora, 8m rear LRw (5.7s)
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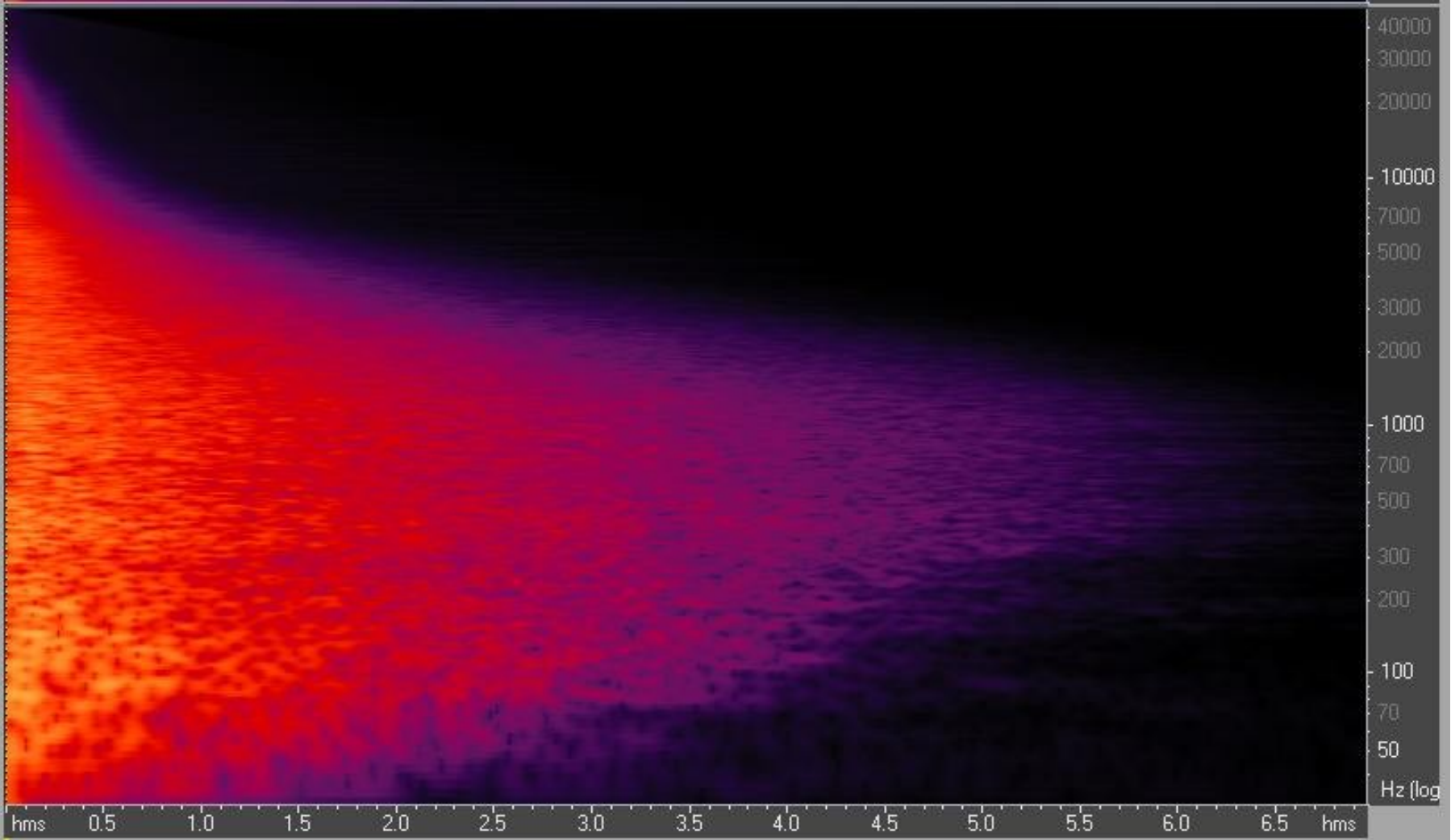
One IR is a part of the Hauptwerk demo IR set, with the name:
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HauptwerkReverb-Church05-Omni-12m-WideLR-5.7s
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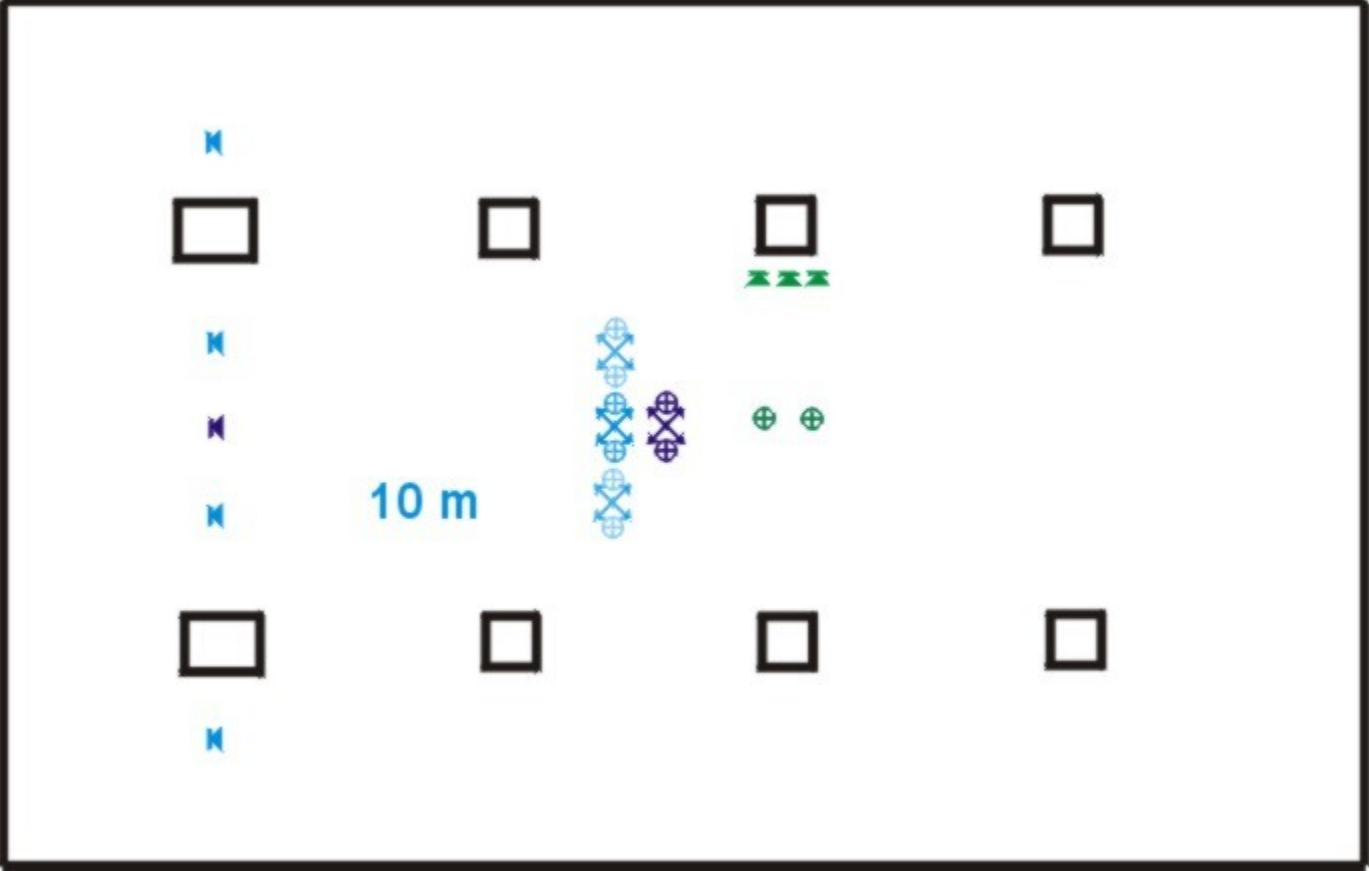
Prji58

A large collection of IRs of the church of sv. Jiljí in Prague (CZ). Reverberation time approx. 6 s. The IRs represent a large gothic hall with 3 isles of the same height. 8 positions of microphones, 5 positions of the source. Additional IRs made from the pulpit.
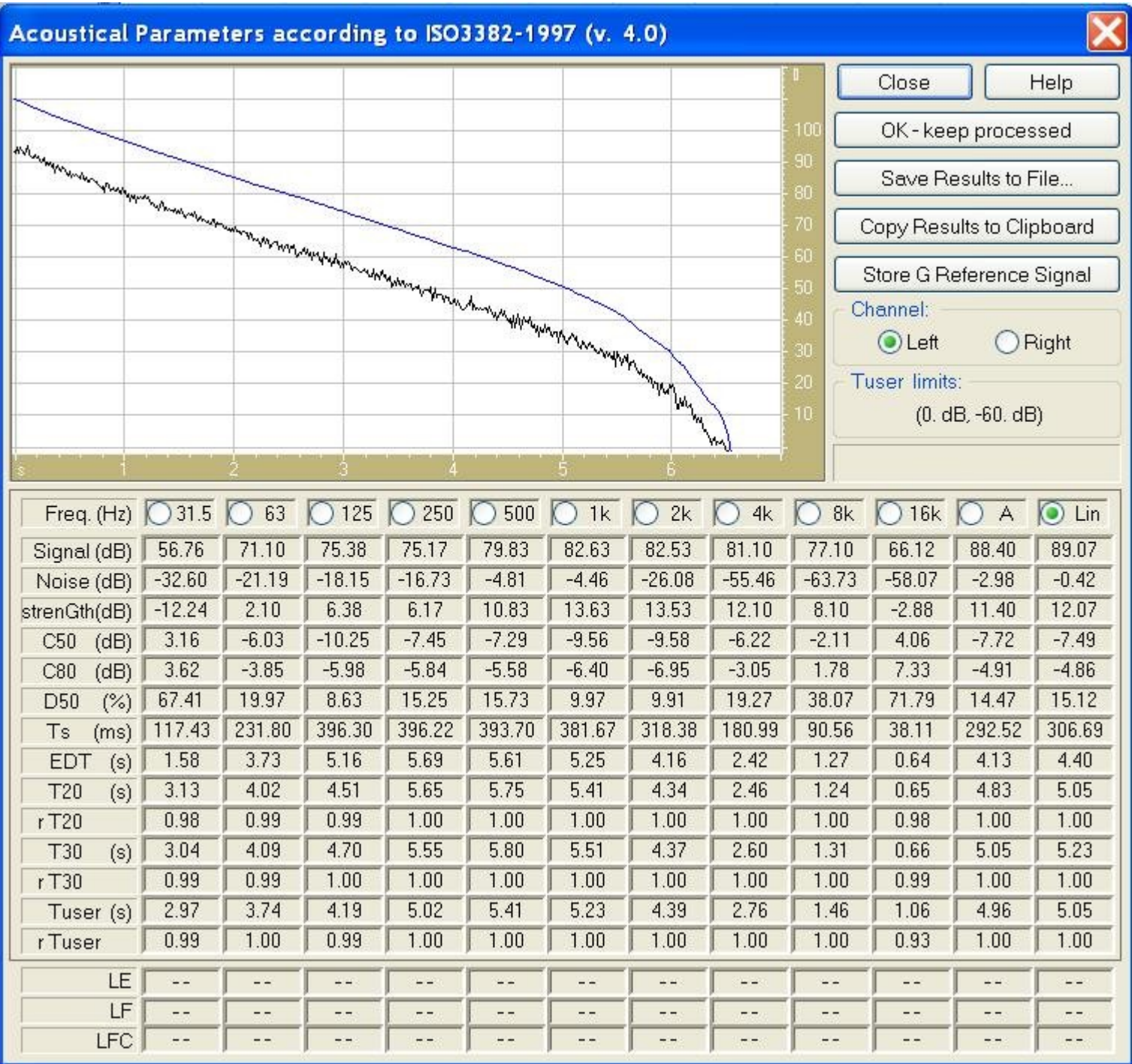
Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

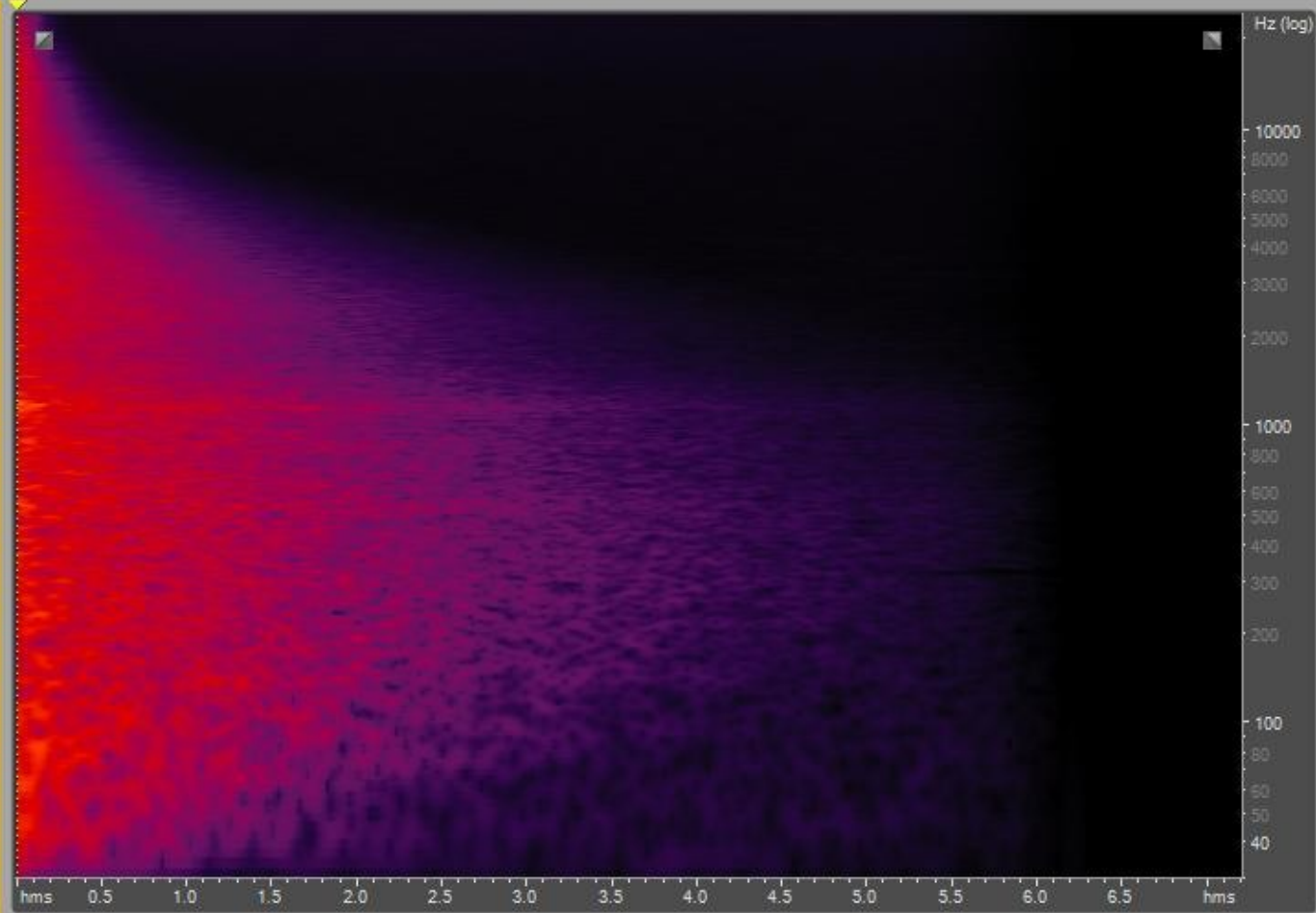| Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	56.76	71.10	75.38	75.17	79.83	82.63	82.53	81.10	77.10	66.12	88.40	89.07
Noise (dB)	-32.60	-21.19	-18.15	-16.73	-4.81	-4.46	-26.08	-55.46	-63.73	-58.07	-2.98	-0.42
strenGth(dB)	-12.24	2.10	6.38	6.17	10.83	13.63	13.53	12.10	8.10	-2.88	11.40	12.07
C50 (dB)	3.16	-6.03	-10.25	-7.45	-7.29	-9.56	-9.58	-6.22	-2.11	4.06	-7.72	-7.49
C80 (dB)	3.62	-3.85	-5.98	-5.84	-5.58	-6.40	-6.95	-3.05	1.78	7.33	-4.91	-4.86
D50 (%)	67.41	19.97	8.63	15.25	15.73	9.97	9.91	19.27	38.07	71.79	14.47	15.12
Ts (ms)	117.43	231.80	396.30	396.22	393.70	381.67	318.38	180.99	90.56	38.11	292.52	306.69
EDT (s)	1.58	3.73	5.16	5.69	5.61	5.25	4.16	2.42	1.27	0.64	4.13	4.40
T20 (s)	3.13	4.02	4.51	5.65	5.75	5.41	4.34	2.46	1.24	0.65	4.83	5.05
r T20	0.98	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00
T30 (s)	3.04	4.09	4.70	5.55	5.80	5.51	4.37	2.60	1.31	0.66	5.05	5.23
r T30	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	2.97	3.74	4.19	5.02	5.41	5.23	4.39	2.76	1.46	1.06	4.96	5.05
r Tuser	0.99	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.93	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 35 items

Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mC C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mC C2 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mC C3e (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mC LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mC LRw (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mL C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mL LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mL LRw (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mR C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mR LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTf 10mR LRw (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mC C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mC C2 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mC LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mC LRw (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mL C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mL LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mL LRw (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mR C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mR LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, IRTr 10mR LRw (5.8s)

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Sonus Paradisi, Church, Praha sv.Jilji, omni 10m C1 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m C2 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR1 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR2 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR3 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR4 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR5 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 10m LR6e (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 5m C (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omni 5m LR (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omniW 10m C1 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omniW 10m C2e (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omniW 10m LR1 (5.8s)
Sonus Paradisi, Church, Praha sv.Jilji, omniW 10m LR2e (5.8s)
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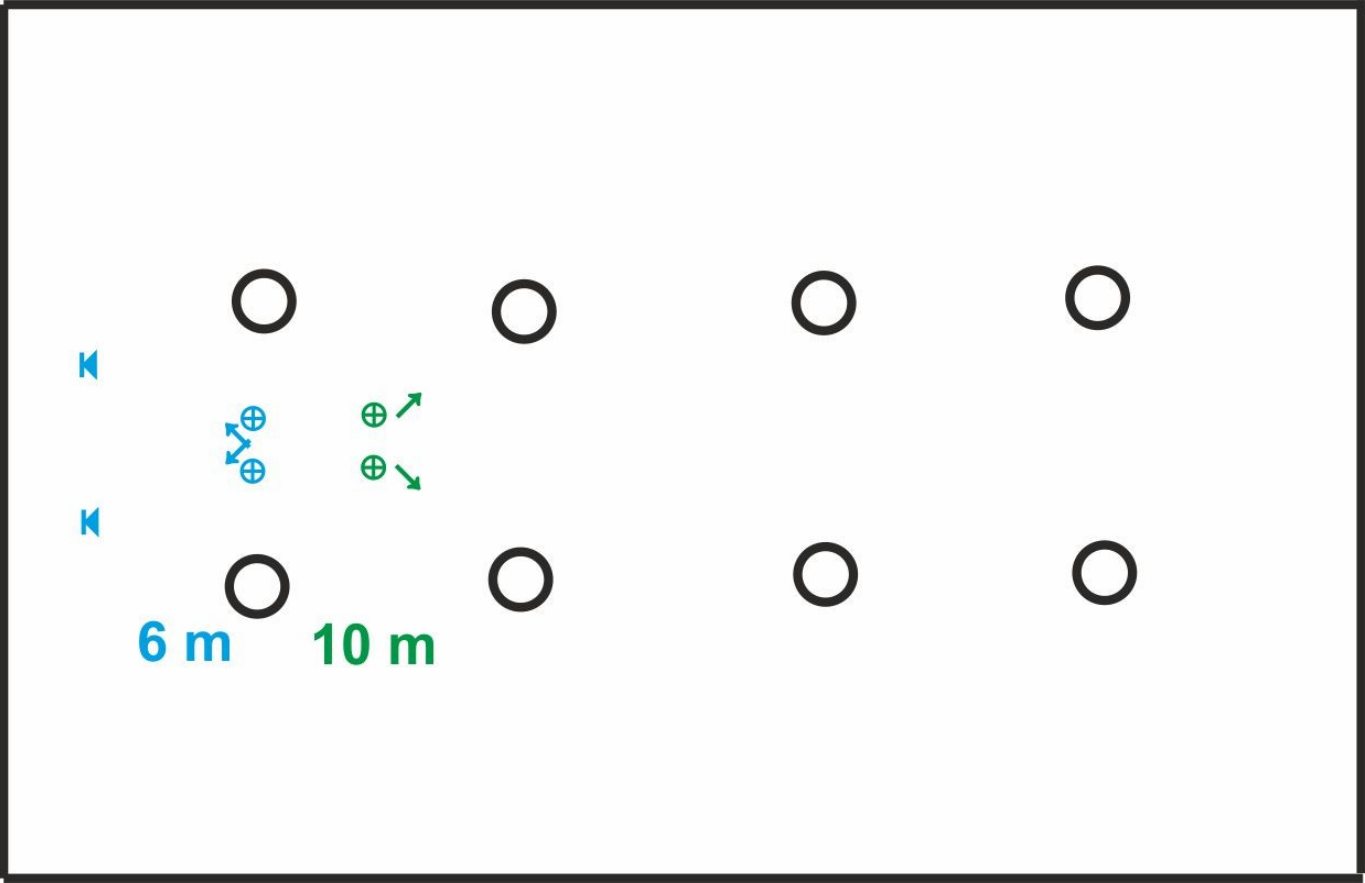
Mart59

A collection of IRs of St. Martini church in Groningen (NL), featuring large gothic hall of 3 isles of identical height. Reverberation time approx. 6 seconds. 5 mic positions, 2 source positions.

Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Audacity plug-in of A. Farina)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal [dB]	43.799	56.323	58.449	61.965	65.607	69.549	67.537	69.810	68.389	70.757	76.302	76.759
Noise [dB]	-81.201	-76.291	-89.664	-98.088	-104.685	-101.848	-114.059	-139.275	-140.980	-161.084	-52.289	-28.690
strenGth [dB]	-25.201	-12.677	-10.551	-7.035	-3.393	0.549	-1.463	0.810	-0.611	1.757	-2.698	-0.241
C50 [dB]	2.282	-3.460	-7.809	-8.285	-5.939	-5.142	-4.216	-2.281	0.799	5.126	-2.795	-2.747
C80 [dB]	2.750	-1.077	-6.476	-5.758	-4.184	-3.059	-2.560	-0.191	3.182	7.919	-0.882	-0.906
D50 [%]	62.842	31.074	14.207	12.925	20.303	23.435	27.472	37.163	54.587	76.498	34.446	34.692
Ts [ms]	141.349	185.796	380.610	400.801	388.879	291.830	241.116	147.551	74.789	35.002	199.845	212.760
EDT [s]	2.571	2.566	5.844	5.808	6.127	5.079	3.899	2.200	1.091	0.601	3.406	3.801
Tuser [s]	6.810	5.347	5.033	5.498	5.488	4.961	3.992	2.776	1.567	-.-	4.968	5.216
T20 [s]	2.812	3.949	4.753	5.448	5.479	5.093	3.905	2.668	1.318	0.568	4.576	4.873
T30 [s]	3.531	4.030	4.584	5.512	5.522	5.043	3.902	2.678	1.374	0.575	4.710	4.971
Peakiness [dB]	21.226	21.643	20.597	20.848	27.088	29.887	32.470	31.626	35.883	34.896	34.733	35.086
Millisecs [dB]	21.150	21.432	20.096	19.687	23.776	25.973	26.085	24.804	27.283	30.683	25.757	24.425
Impulsivs [dB]	18.156	17.021	14.401	14.670	15.397	15.847	16.245	16.951	18.731	20.846	16.879	16.978

List of IRs in the collection - 15 items

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Sonus Paradisi, Church, Groningen Martini, omni 10m LR1 (5.9s)
Sonus Paradisi, Church, Groningen Martini, omni 10m LR2 (5.9s)
Sonus Paradisi, Church, Groningen Martini, omni 10m LR3 (5.9s)
Sonus Paradisi, Church, Groningen Martini, omni 6m LR1 (5.9s)
Sonus Paradisi, Church, Groningen Martini, omni 6m LR2 (5.9s)
Sonus Paradisi, Church, Groningen Martini, omni 6m LR3 (5.9s)
Sonus Paradisi, Church, Groningen Martini, ortf 6m LR1 (5.9s)
Sonus Paradisi, Church, Groningen Martini, ortf 6m LR2 (5.9s)
Sonus Paradisi, Church, Groningen Martini, ortf 6m LR3 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 10m LR1 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 10m LR2 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 10m LR3 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 6m LR1 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 6m LR2 (5.9s)
Sonus Paradisi, Church, Groningen Martini, rear 6m LR3 (5.9s)
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Tybal60

A large collection of IRs of the Týn church in Prague (CZ). Reverberation time approx. 6 s. The IRs represent a large gothic church with side aisles. Massive bass. Two microphone techniques, 5 positions of the source, many variants.

Time/Frequency graph

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	47.60	61.33	63.94	63.69	66.24	68.67	69.61	69.69	69.93	62.92	76.29	77.26
Noise (dB)	-47.19	-37.72	-42.53	-41.76	-37.36	-58.42	-70.56	-69.68	-67.20	-61.70	-40.14	-29.16
strenGth(dB)	-21.40	-7.67	-5.06	-5.31	-2.76	-0.33	0.61	0.69	0.93	-6.08	-0.71	0.26
C50 (dB)	-0.01	-2.37	-6.16	-4.32	-4.04	-4.15	-3.68	-1.73	3.74	8.99	-1.75	-1.66
C80 (dB)	2.57	-1.00	-4.87	-3.32	-2.76	-2.98	-2.43	0.01	5.58	12.09	-0.39	-0.36
D50 (%)	49.94	36.69	19.50	27.00	28.27	27.77	29.99	40.18	70.31	88.80	40.06	40.58
Ts (ms)	178.71	235.18	310.17	338.58	334.11	309.60	242.88	139.57	49.82	21.64	192.61	201.24
EDT (s)	2.62	3.32	4.60	5.54	5.23	4.72	3.71	2.21	0.86	0.32	3.15	3.36
T20 (s)	4.18	4.46	5.16	5.84	6.01	5.21	4.22	2.58	1.28	0.62	4.54	4.90
r T20	0.96	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	4.48	4.58	4.97	5.73	5.97	5.31	4.32	2.66	1.30	0.64	4.77	5.15
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	3.38	3.62	4.02	4.75	5.17	4.51	3.86	2.63	1.36	0.88	4.37	4.55
r Tuser	0.98	0.98	0.99	0.99	1.00	0.99	1.00	1.00	1.00	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

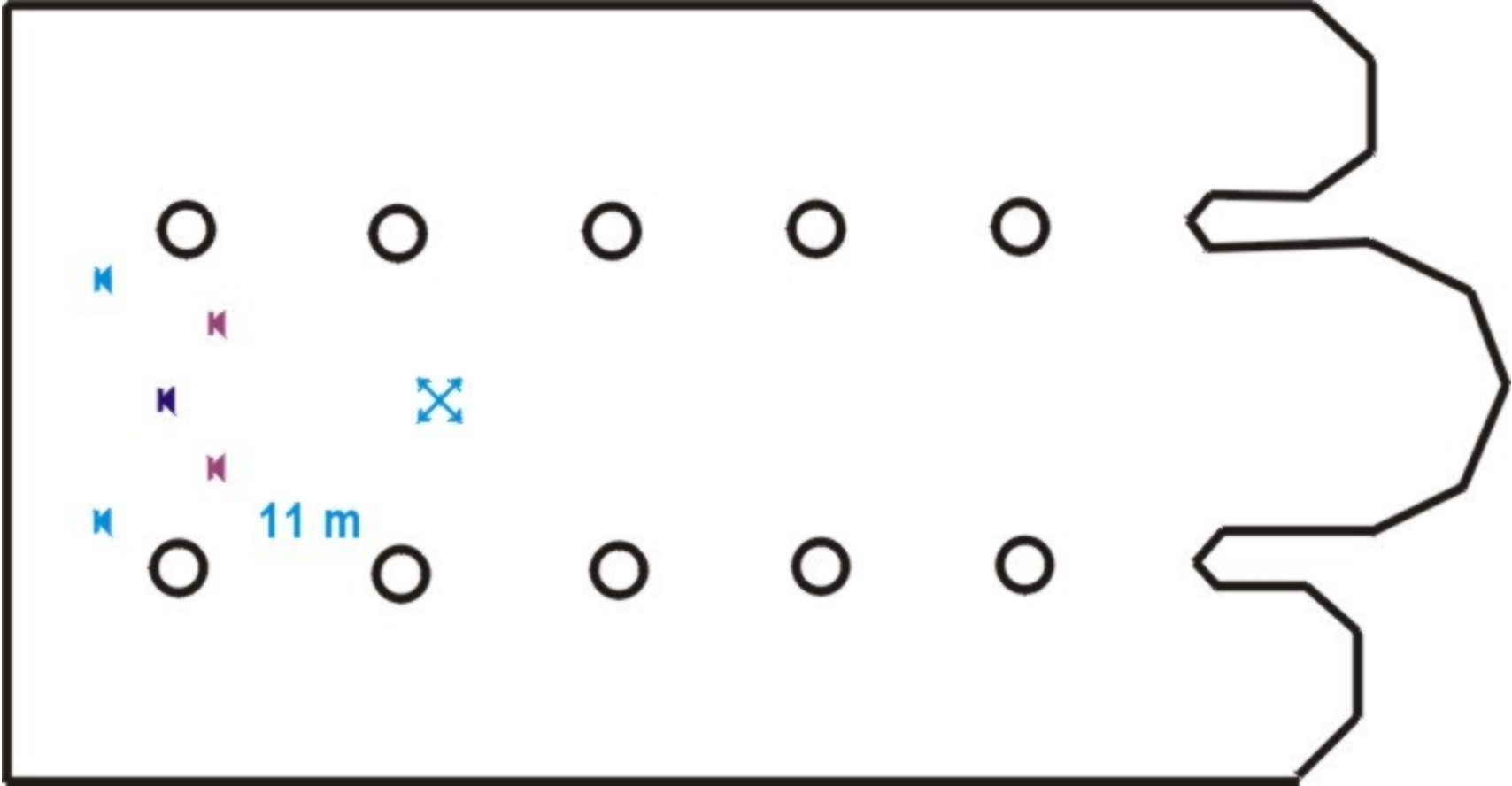**List of IRs in the collection - 30 items**

Sonus Paradisi, Church, Prague Tyn, front HW1 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front HW2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front HW3 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front HW4 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front HW5 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front HW6 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE1 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE3 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE4 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE5 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front PE6 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front RP1 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front RP2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, front RP3 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW1 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW3 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW4 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW5 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear HW6 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear PE1 (6.0s)

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Sonus Paradisi, Church, Prague Tyn, rear PE2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear PE3 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear PE4 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear PE5 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear PE6 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear RP1 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear RP2 (6.0s)
Sonus Paradisi, Church, Prague Tyn, rear RP3 (6.0s)
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Brv63

A collection of IRs of the Břevnov church in Prague (CZ). Reverberation time approx. 6 s. The IRs represent a baroque hall-type church with furniture inside. 6 different positions of the source, 3 mic positions.

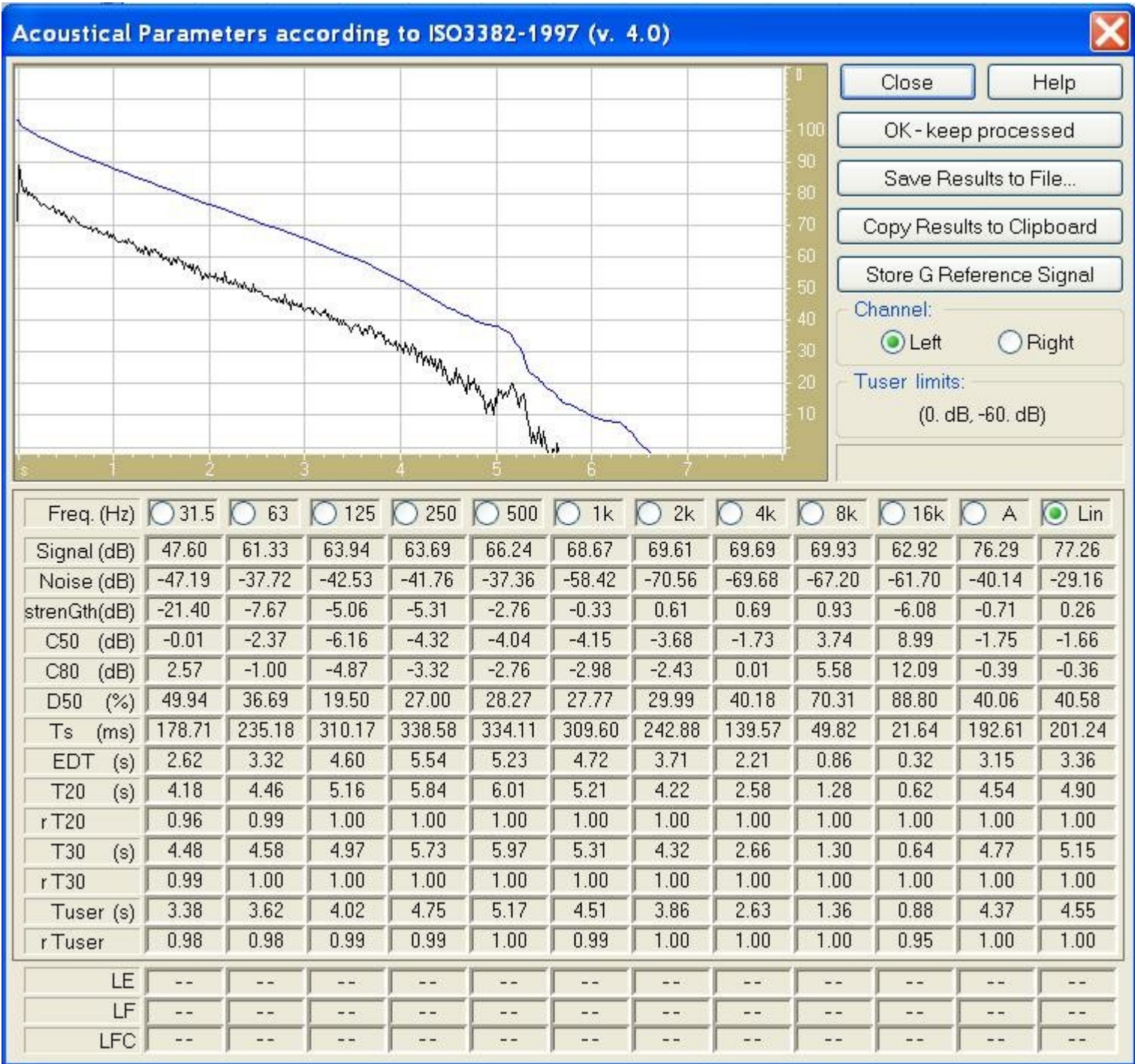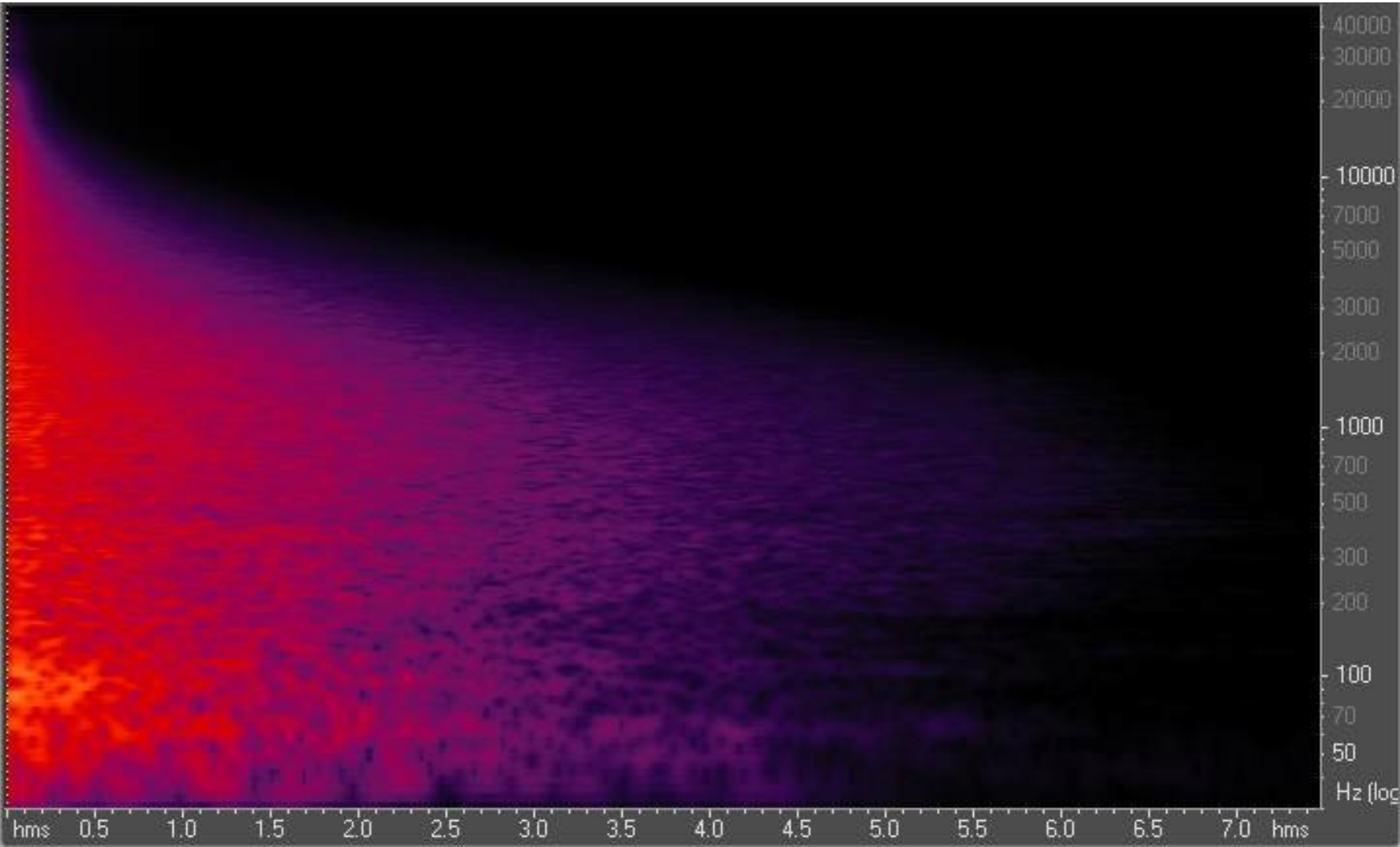**Time/Frequency graph**

Source and microphone locations (scheme)

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
Signal (dB)	47.60	64.77	66.93	66.76	70.13	74.20	74.89	72.12	70.43	63.06	80.86	80.19	
Noise (dB)	-21.77	-13.99	-28.96	-20.41	-11.31	-24.18	-44.27	-72.41	-73.51	-73.63	-4.25	-14.89	
G (dB)	-21.40	-4.23	-2.07	-2.24	1.13	5.20	5.89	3.12	1.43	-5.94	3.86	3.19	
C50 (dB)	-4.09	-6.73	-12.49	-8.07	-8.48	-7.94	-5.15	-6.93	-0.16	4.44	-5.99	-6.02	
C80 (dB)	-3.50	-3.16	-4.37	-5.16	-4.62	-4.58	-3.78	-1.66	3.75	9.58	-2.81	-2.87	
D50 (%)	28.03	17.52	5.34	13.50	12.42	13.84	16.86	23.39	49.06	73.56	20.10	20.00	
Ts (ms)	452.55	345.40	365.46	394.94	387.01	361.05	290.72	177.90	75.84	35.76	282.84	271.97	
EDT (s)	7.61	4.95	5.11	5.82	5.87	5.49	4.24	2.56	1.04	0.50	4.56	4.27	
Tuser (s)	7.95	5.09	4.53	5.44	6.24	5.74	4.81	2.95	1.36	0.47	5.19	5.01	
T20 (s)	6.65	5.48	4.57	5.71	6.45	5.81	4.91	3.10	1.44	0.58	5.47	5.33	
T30 (s)	6.96	5.47	4.70	5.79	6.30	5.77	4.88	3.20	1.56	0.64	5.54	5.39	
Peakiness[dB]	19.63	20.09	23.39	25.43	25.28	25.81	26.79	28.18	36.10	35.05	28.99	29.53	
Millisecs[dB]	19.57	19.97	22.88	23.98	21.77	21.83	21.21	22.34	27.00	25.88	20.38	19.95	
Impulsivs[dB]	16.42	15.40	16.78	16.12	16.42	14.81	16.12	16.80	19.34	21.34	16.30	16.27	

List of IRs in the collection - 18 items

Sonus Paradisi, Church, Praha Brevnov, omni 14m HW1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 14m HW2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 14m PE1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 14m PE2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 14m RP1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 14m RP2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m HW1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m HW2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m PE1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m PE2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m RP1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, omni 5m RP2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m HW1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m HW2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m PE1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m PE2 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m RP1 (6.4s)
Sonus Paradisi, Church, Praha Brevnov, ortf 5m RP2 (6.4s)

Pvt67

A collection of IRs of the cathedral of sv. Vít in Prague (CZ). Reverberation time approx. 7 s. The IRs represent an extra large gothic cathedral. 6 positions of microphones 9 positions of the source.
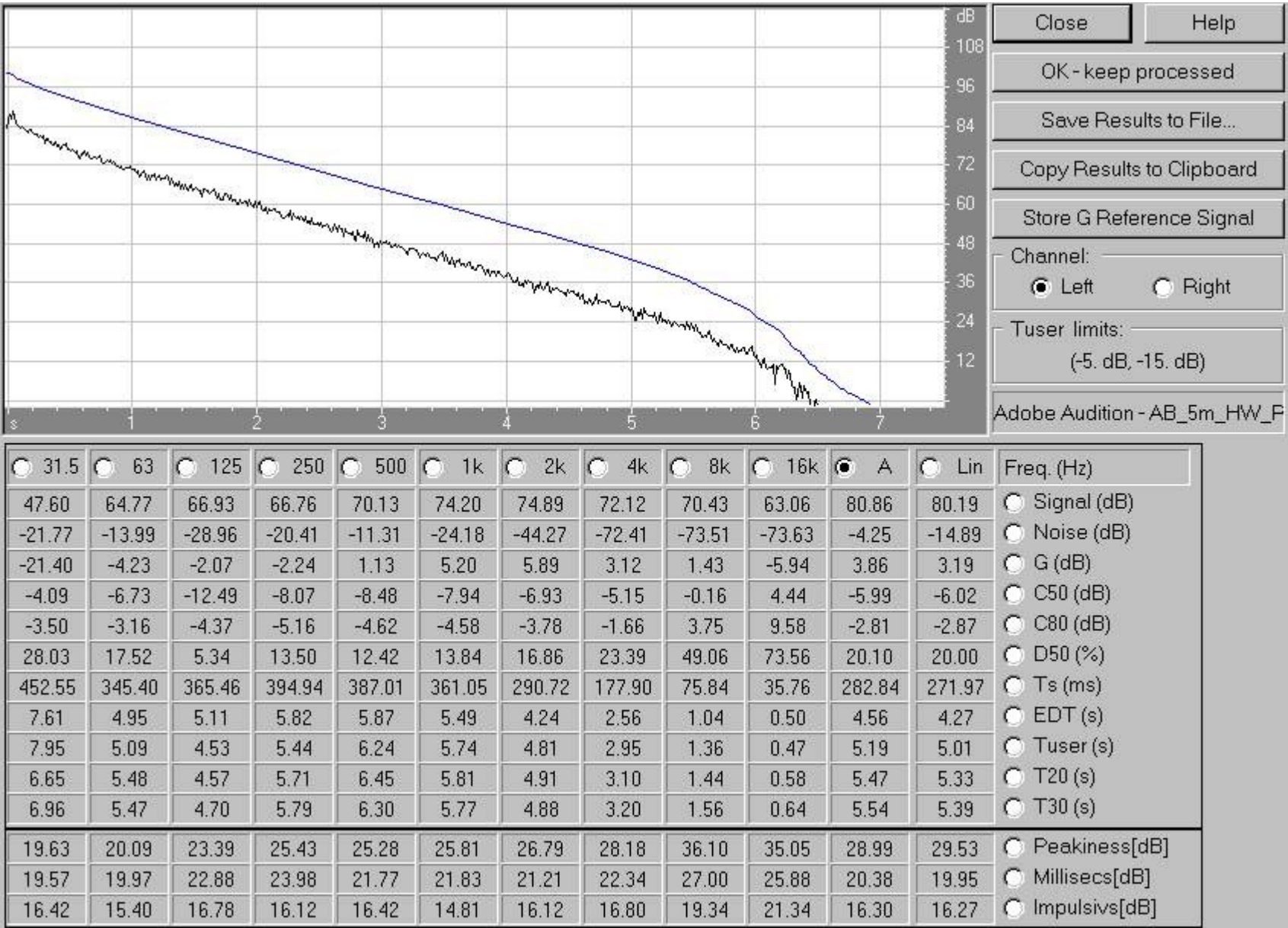
Time/Frequency graph

Source and microphone locations (scheme)

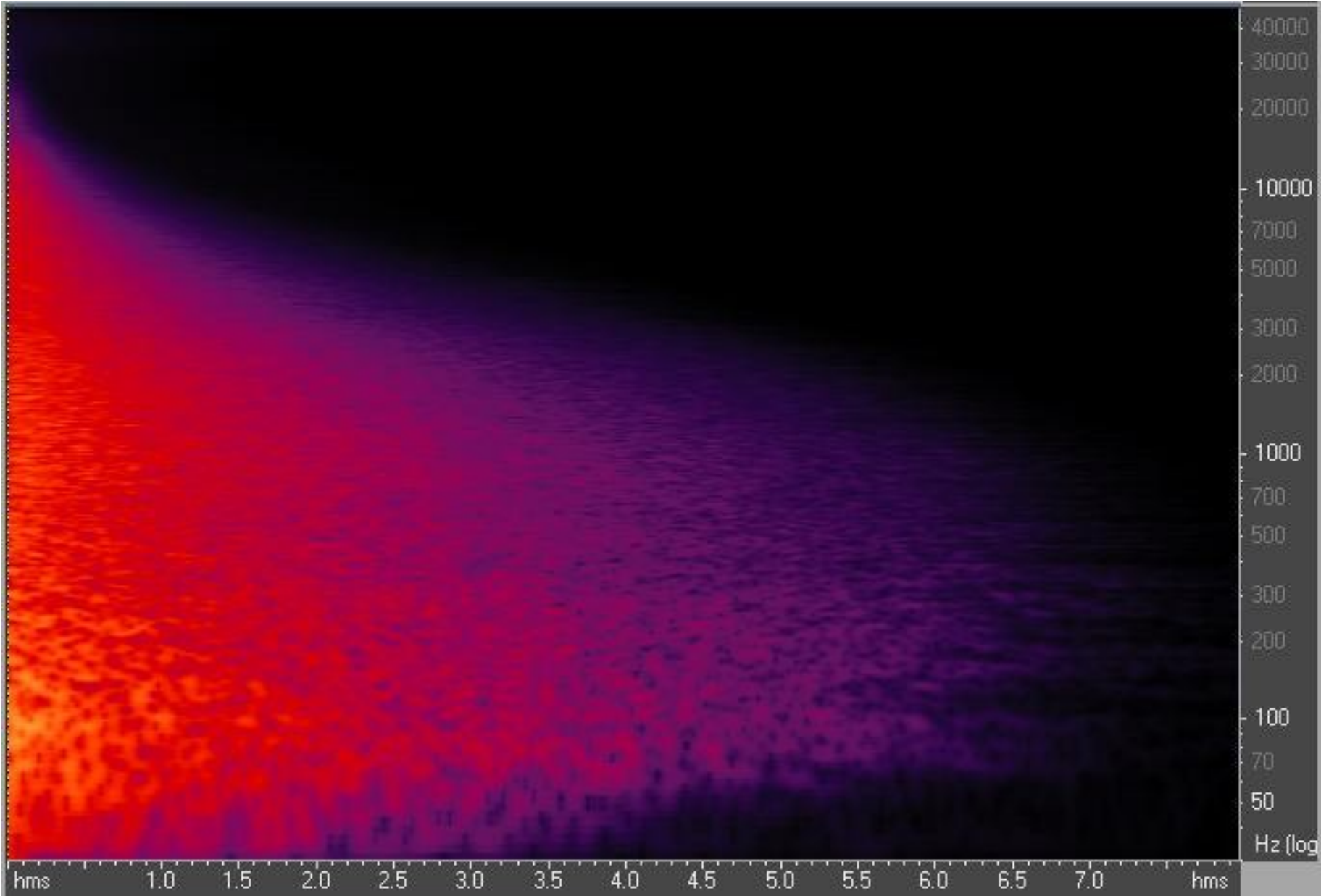**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

Freq. (Hz)	○ 31.5	○ 63	○ 125	○ 250	○ 500	○ 1k	○ 2k	○ 4k	○ 8k	○ 16k	● A	○ Lin
Signal (dB)	52.51	66.30	70.80	70.58	70.71	74.42	75.18	71.88	69.05	57.16	80.32	81.43
Noise (dB)	-28.15	-26.80	-20.10	-11.11	-18.10	-29.52	-53.76	-70.58	-64.64	-64.91	-17.05	-7.88
strenGth(dB)	-16.49	-2.70	1.80	1.58	1.71	5.42	6.18	2.88	0.05	-11.84	3.32	4.43
C50 (dB)	-2.32	-7.21	-7.10	-4.51	-7.21	-7.08	-5.92	-5.38	-2.77	0.78	-5.97	-6.10
C80 (dB)	-0.04	-5.95	-5.40	-3.57	-5.01	-5.27	-4.30	-2.82	0.51	4.13	-3.96	-4.24
D50 (%)	36.94	15.98	16.32	26.16	15.96	16.37	20.36	22.48	34.56	54.49	20.18	19.73
Ts (ms)	265.21	460.69	397.28	396.10	396.29	355.80	288.04	197.38	106.85	56.84	284.86	315.34
EDT (s)	4.35	6.36	5.33	6.43	5.68	5.13	4.27	2.78	1.50	0.78	4.26	4.67
T20 (s)	4.87	6.49	6.95	6.97	6.69	5.90	4.64	3.15	1.60	0.78	5.21	5.96
r T20	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	5.05	6.78	6.86	7.21	6.73	5.94	4.77	3.28	1.68	0.86	5.49	6.22
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	4.56	5.74	6.10	6.32	6.13	5.66	4.73	3.42	1.85	1.31	5.54	5.94
r Tuser	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 14 items
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Sonus Paradisi, Church, Praha sv.Vit, omni 12m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 12m LR (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 12m LRw (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 15m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 15m LR (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 24m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, omni 24m LR (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 12m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 12m LR (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 12m LRw (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 15m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 15m LR (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 24m C (6.7s)
Sonus Paradisi, Church, Praha sv.Vit, ortf 24m LR (6.7s)
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One IR is a part of the Hauptwerk demo IR set, with the name:
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HauptwerkReverb-Church07-Omni-24m-LR-6.7s
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Vcha15vlong

An artificial IR, big and resonant with pronounced echo, reverberation time about 7 s.

Time/Frequency graph

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	73.70	74.66	77.52	79.81	82.15	84.90	85.62	86.16	84.99	77.53	92.34	93.06
Noise (dB)	6.74	10.91	15.80	23.19	28.61	28.62	23.92	-0.03	-24.16	-23.02	31.70	33.43
strenGth(dB)	4.70	5.66	8.52	10.81	13.15	15.90	16.62	17.16	15.99	8.53	15.34	16.06
C50 (dB)	-7.28	-10.91	-11.75	-13.11	-14.26	-12.38	-11.21	-9.56	-5.78	-1.10	-9.66	-9.50
C80 (dB)	-1.29	-6.14	-4.91	-4.96	-4.41	-3.79	-5.08	-4.72	-2.49	3.54	-4.26	-4.00
D50 (%)	15.75	7.50	6.26	4.66	3.61	5.47	7.03	9.96	20.91	43.71	9.76	10.10
Ts (ms)	357.78	443.55	356.68	375.03	418.88	387.33	383.88	258.02	125.72	56.86	305.14	303.91
EDT (s)	5.09	5.15	4.92	5.19	6.07	5.80	5.36	3.47	1.46	0.63	4.39	4.51
T20 (s)	5.07	5.00	5.93	6.31	6.95	6.48	5.69	3.32	1.37	0.52	5.72	5.90
r T20	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.96	1.00	1.00
T30 (s)	5.42	5.49	5.96	6.51	6.91	6.60	5.84	3.47	1.35	0.61	5.98	6.14
r T30	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	1.00	1.00
Tuser (s)	5.65	5.79	5.87	6.33	6.50	6.35	5.95	3.89	1.71	0.99	5.96	6.06
r Tuser	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.94	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 1 item

Sonus Paradisi, Church, Vcha15vlong, Artificial C (6.9s)

Vchu1588

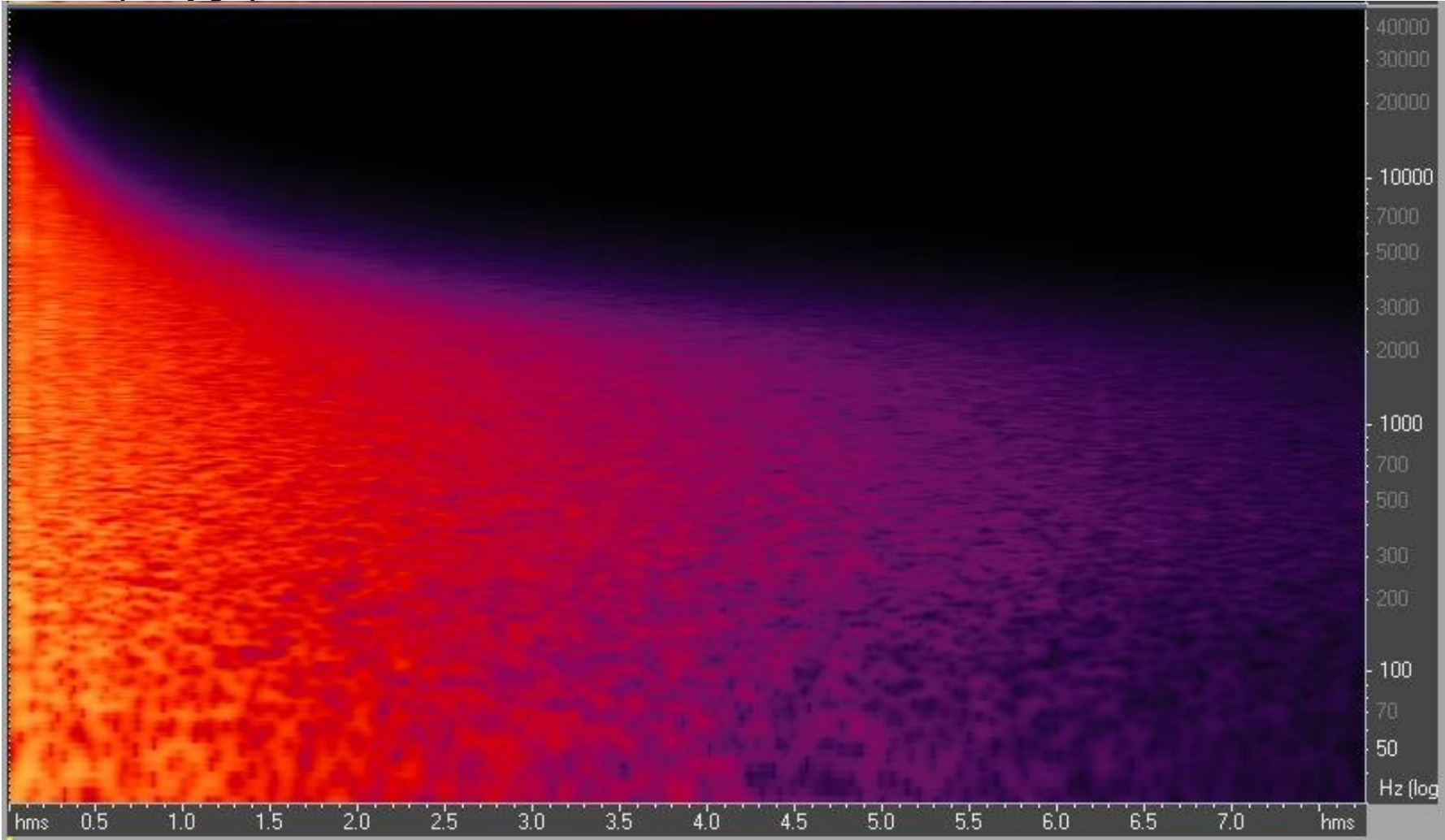An artificial IR collection, suitable for surround setup (there is a rear IR available as well as two versions of front IR). Big and resonant, reverberation time more than 7 s.
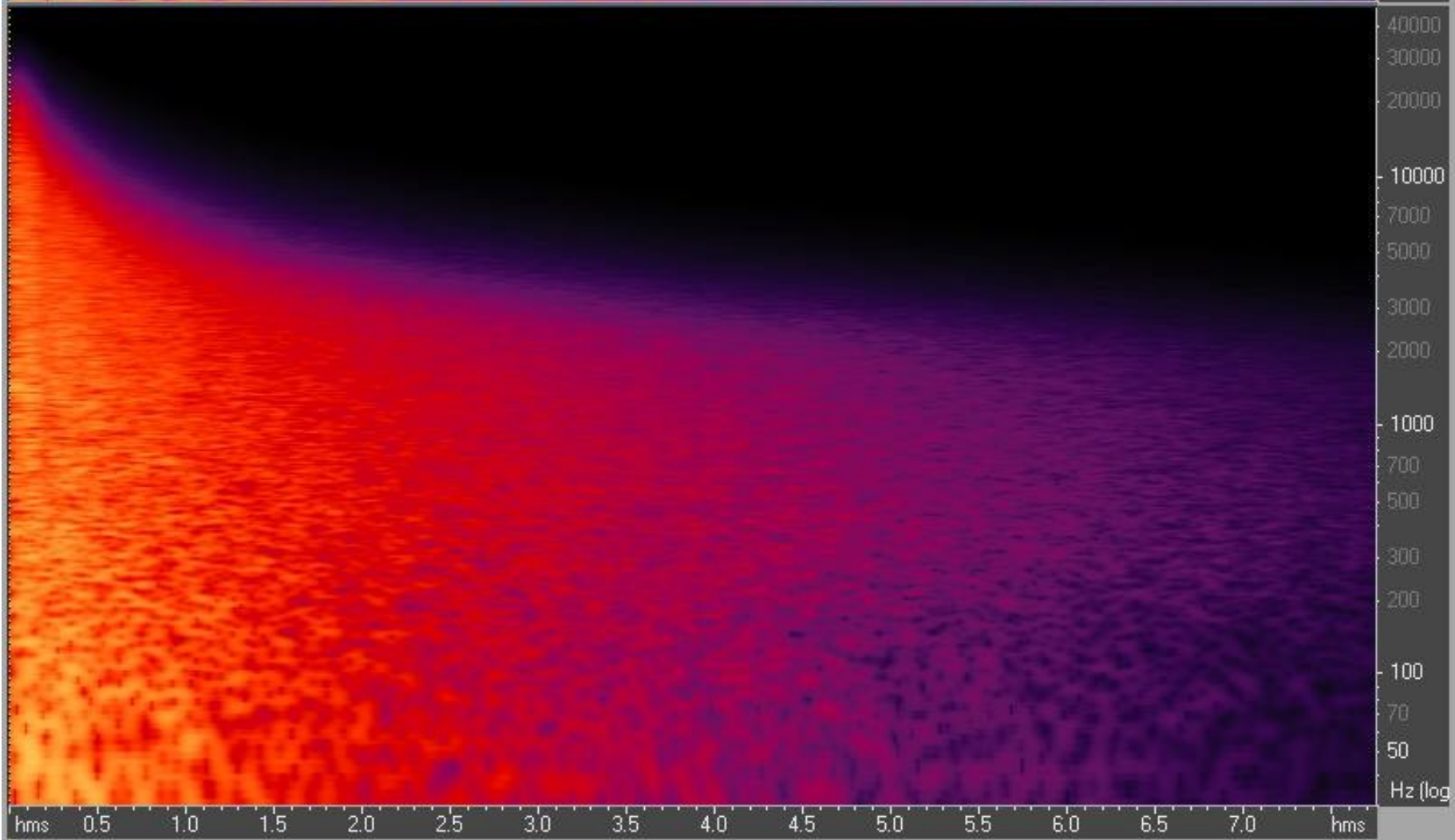
Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	71.66	74.64	77.31	80.40	82.83	84.81	86.86	86.93	85.14	77.63	93.01	93.59
Noise (dB)	12.45	15.74	21.34	28.74	33.19	33.86	29.05	5.41	-22.20	-24.36	36.76	38.48
strenGth(dB)	2.66	5.64	8.31	11.40	13.83	15.81	17.86	17.93	16.14	8.63	16.01	16.59
C50 (dB)	-6.55	-11.00	-9.84	-6.49	-9.89	-11.99	-6.85	-6.27	-2.09	4.70	-6.37	-6.22
C80 (dB)	-6.03	-8.51	-7.90	-5.36	-8.81	-10.48	-5.86	-4.96	-0.49	8.12	-5.17	-4.99
D50 (%)	18.11	7.36	9.39	18.32	9.31	5.95	17.12	19.08	38.18	74.70	18.74	19.27
Ts (ms)	469.48	526.47	478.50	455.44	536.47	538.99	407.86	283.13	136.27	38.66	355.73	364.82
EDT (s)	5.87	6.23	6.35	6.25	7.34	7.13	5.66	3.81	1.82	0.54	4.96	5.14
T20 (s)	6.23	6.00	6.20	6.87	7.23	7.02	6.08	3.38	1.38	0.72	6.17	6.43
r T20	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.98	1.00	1.00
T30 (s)	6.32	5.89	6.11	6.94	7.21	7.08	6.22	3.58	1.34	0.69	6.41	6.57
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
Tuser (s)	6.29	6.09	6.24	6.62	6.81	6.70	6.23	4.12	1.81	1.06	6.33	6.42
r Tuser	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 3 items

Sonus Paradisi, Church, Vchu1588asy, Artificial C (7.2s)
Sonus Paradisi, Church, Vchu1588asy, Artificial C2 (7.2s)
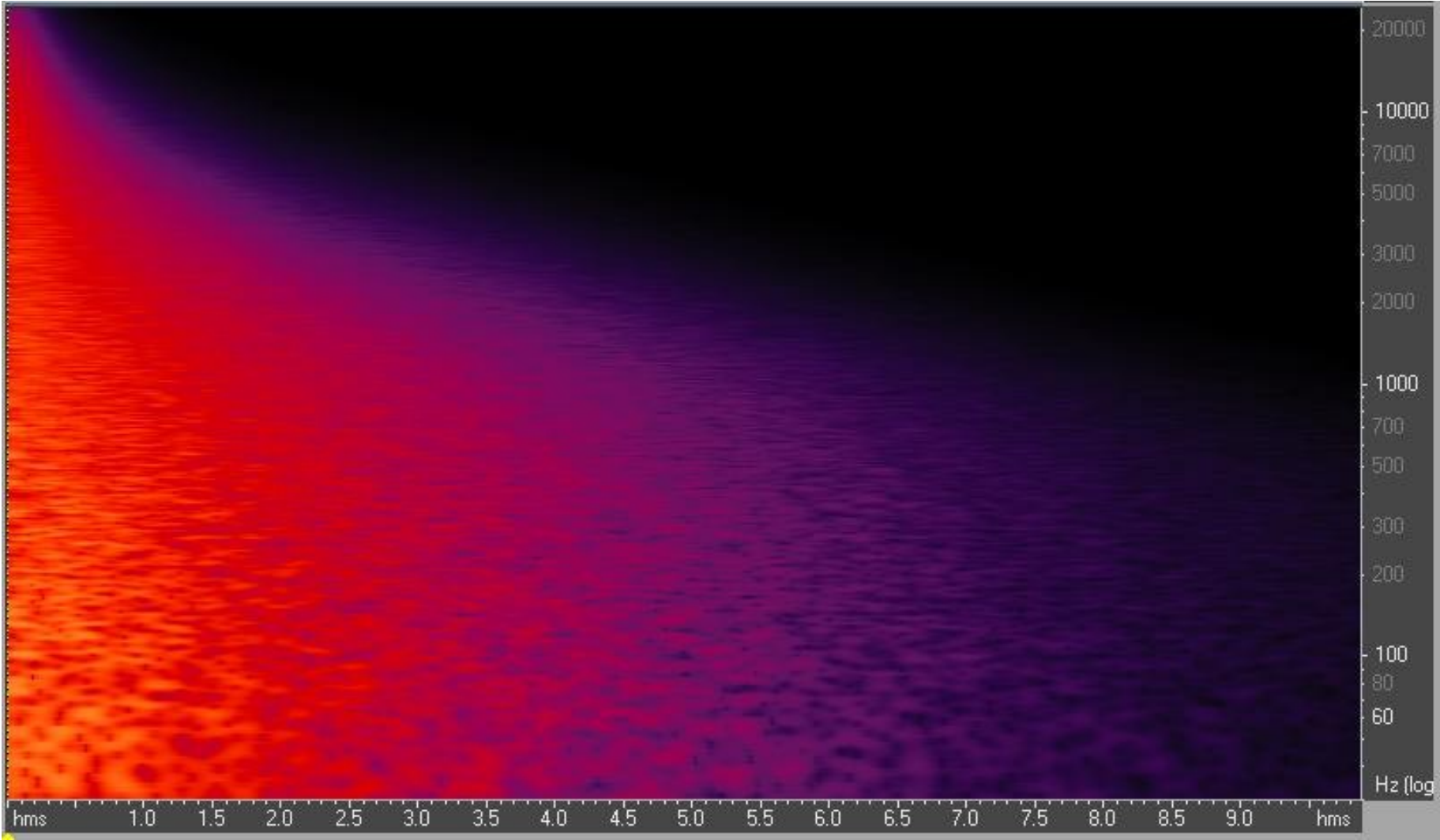Sonus Paradisi, Church, Vchu1588asy, Artificial rear (7.2s)

ZwIR

A large collection of IRs of st. Michael in Zwolle (NL). These are designed to be used with the dry sample set of Zwolle Schnitger organ by Sonus Paradisi. There is a pair of impulses for each organ division, so you can use different reverb for the Borstwerk and different one for Hoofdwerk, for example. There is also one center impulse response for each division. The full length impulses are more than 7 seconds long.
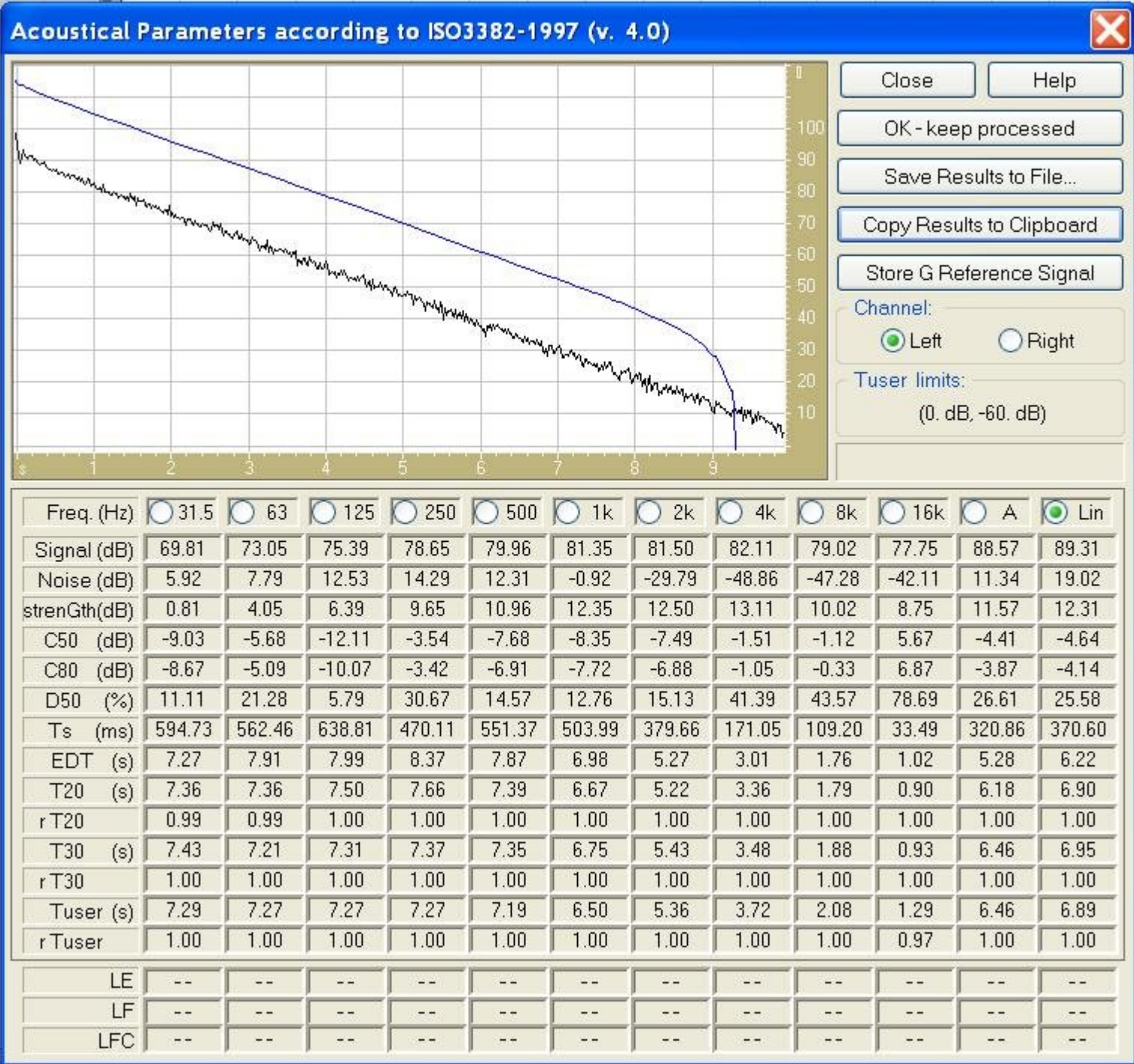
Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

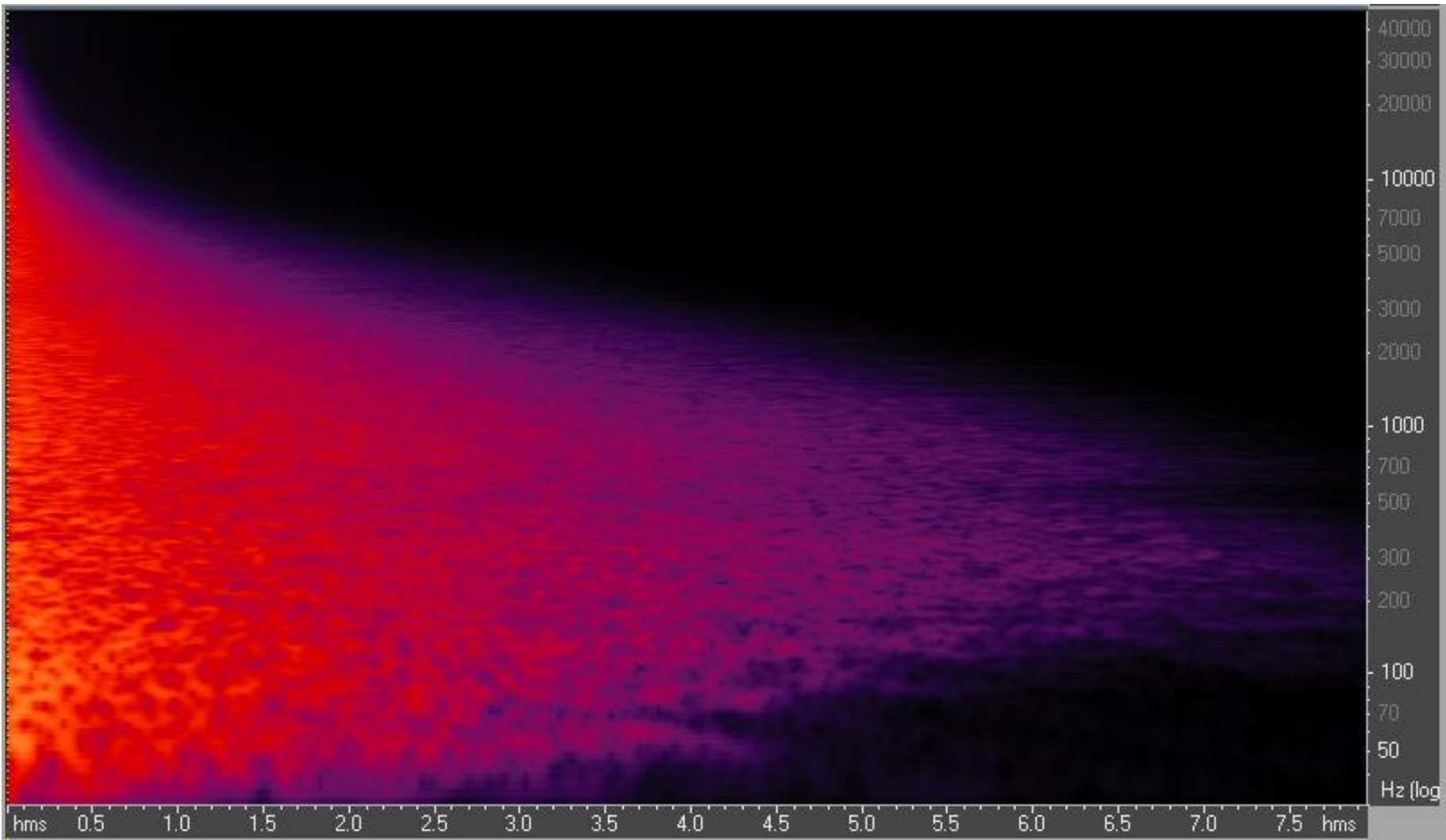| Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	69.81	73.05	75.39	78.65	79.96	81.35	81.50	82.11	79.02	77.75	88.57	89.31
Noise (dB)	5.92	7.79	12.53	14.29	12.31	-0.92	-29.79	-48.86	-47.28	-42.11	11.34	19.02
strenGth(dB)	0.81	4.05	6.39	9.65	10.96	12.35	12.50	13.11	10.02	8.75	11.57	12.31
C50 (dB)	-9.03	-5.68	-12.11	-3.54	-7.68	-8.35	-7.49	-1.51	-1.12	5.67	-4.41	-4.64
C80 (dB)	-8.67	-5.09	-10.07	-3.42	-6.91	-7.72	-6.88	-1.05	-0.33	6.87	-3.87	-4.14
D50 (%)	11.11	21.28	5.79	30.67	14.57	12.76	15.13	41.39	43.57	78.69	26.61	25.58
Ts (ms)	594.73	562.46	638.81	470.11	551.37	503.99	379.66	171.05	109.20	33.49	320.86	370.60
EDT (s)	7.27	7.91	7.99	8.37	7.87	6.98	5.27	3.01	1.76	1.02	5.28	6.22
T20 (s)	7.36	7.36	7.50	7.66	7.39	6.67	5.22	3.36	1.79	0.90	6.18	6.90
r T20	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	7.43	7.21	7.31	7.37	7.35	6.75	5.43	3.48	1.88	0.93	6.46	6.95
r T30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	7.29	7.27	7.27	7.27	7.19	6.50	5.36	3.72	2.08	1.29	6.46	6.89
r Tuser	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 27 items

Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m BPC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m BPLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m BWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m BWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m HWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m HWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m PELR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m RWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, cardio 11m RWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m BPC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m BPLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m BWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m BWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m HWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m HWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m PELR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m RWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, omni 11m RWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m BPC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m BPLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m BWC (7.4s)

List of IRs in the collection (cont.)

Sonus Paradisi, Church, Zwolle Michaelis, rear 11m BWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m HWC (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m HWLR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m PELR (7.4s)
Sonus Paradisi, Church, Zwolle Michaelis, rear 11m RWC (7.4s)
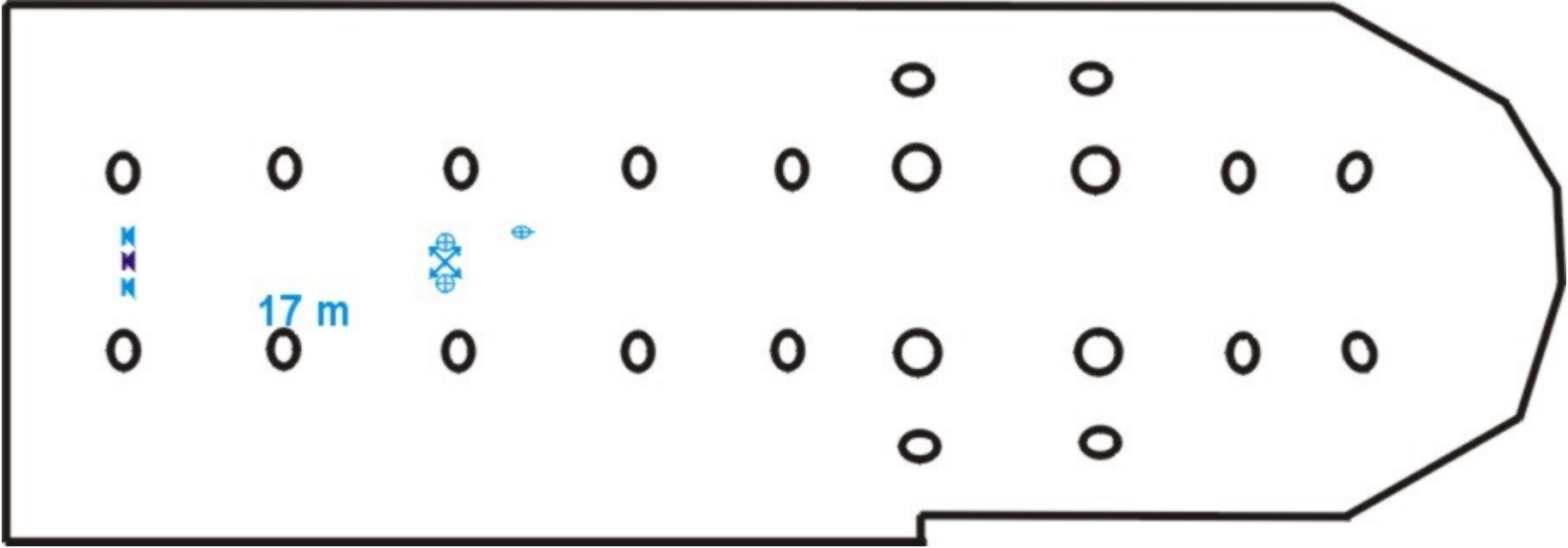Sonus Paradisi, Church, Zwolle Michaelis, rear 11m RWLR (7.4s)

Khs80

A collection of IRs of the monastery church of Sedlec by Kutná Hora (CZ). Reverberation time approx. 8 s. The IRs represent a large gothic church with a transept and without furniture. This is very long reverb with unusually massive bass thunder. Four microphone techniques and 3 positions of the source available.
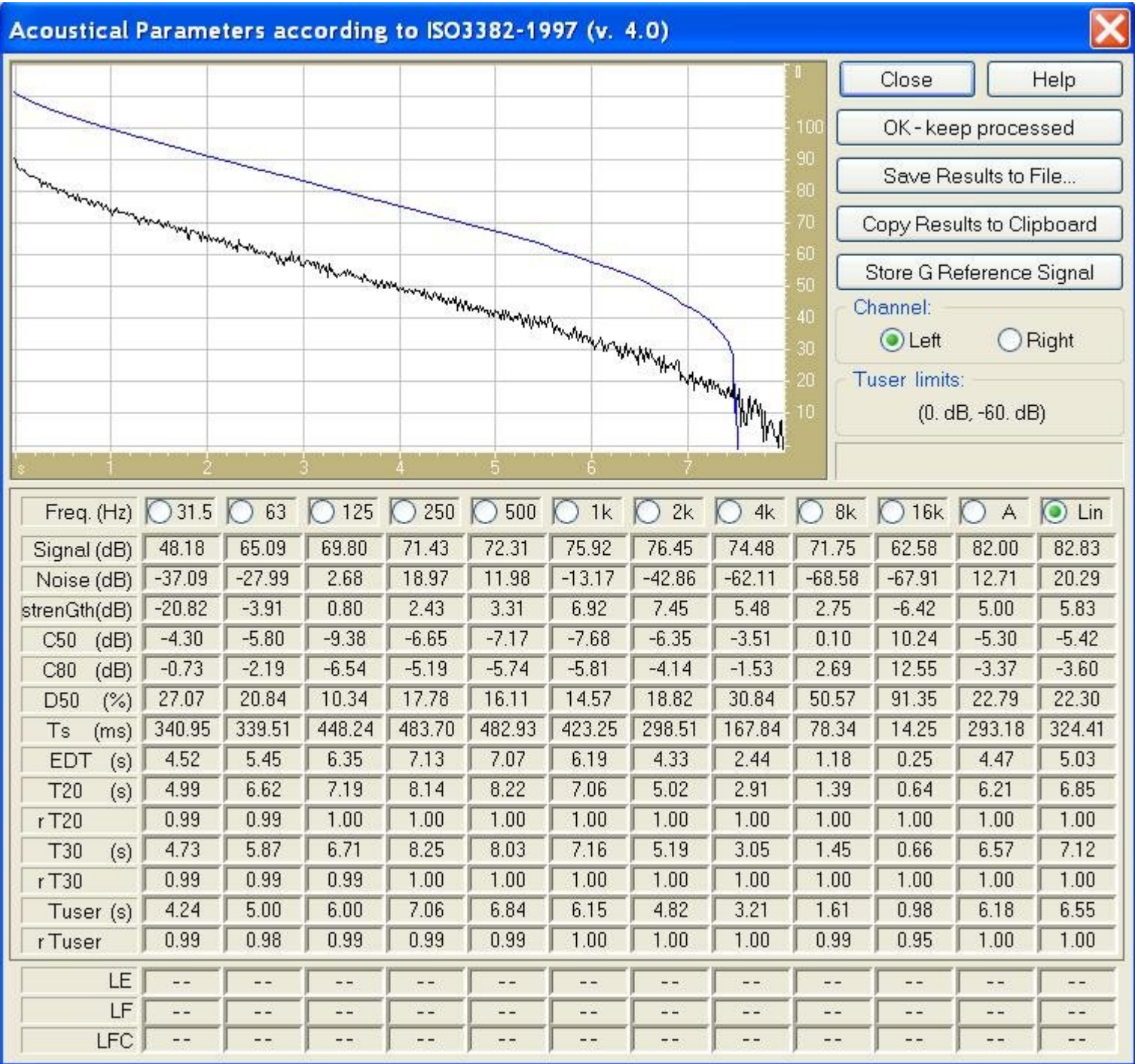
Time/Frequency graph

Acoustical Parameters (Adobe Audition plug-in of A. Farina)

Acoustical Parameters according to ISO3382-1997 (v. 4.0)

Freq. (Hz)	○ 31.5	○ 63	○ 125	○ 250	○ 500	○ 1k	○ 2k	○ 4k	○ 8k	○ 16k	○ A	◉ Lin
Signal (dB)	48.18	65.09	69.80	71.43	72.31	75.92	76.45	74.48	71.75	62.58	82.00	82.83
Noise (dB)	-37.09	-27.99	2.68	18.97	11.98	-13.17	-42.86	-62.11	-68.58	-67.91	12.71	20.29
strenGth(dB)	-20.82	-3.91	0.80	2.43	3.31	6.92	7.45	5.48	2.75	-6.42	5.00	5.83
C50 (dB)	-4.30	-5.80	-9.38	-6.65	-7.17	-7.68	-6.35	-3.51	0.10	10.24	-5.30	-5.42
C80 (dB)	-0.73	-2.19	-6.54	-5.19	-5.74	-5.81	-4.14	-1.53	2.69	12.55	-3.37	-3.60
D50 (%)	27.07	20.84	10.34	17.78	16.11	14.57	18.82	30.84	50.57	91.35	22.79	22.30
Ts (ms)	340.95	339.51	448.24	483.70	482.93	423.25	298.51	167.84	78.34	14.25	293.18	324.41
EDT (s)	4.52	5.45	6.35	7.13	7.07	6.19	4.33	2.44	1.18	0.25	4.47	5.03
T20 (s)	4.99	6.62	7.19	8.14	8.22	7.06	5.02	2.91	1.39	0.64	6.21	6.85
r T20	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	4.73	5.87	6.71	8.25	8.03	7.16	5.19	3.05	1.45	0.66	6.57	7.12
r T30	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	4.24	5.00	6.00	7.06	6.84	6.15	4.82	3.21	1.61	0.98	6.18	6.55
r Tuser	0.99	0.98	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.95	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

Source and microphone locations (scheme)

17 m

List of IRs in the collection - 12 items

Sonus Paradisi, Church, Kutna Hora Sedlec, cardio 17m C (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, cardio 17m LR (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, jecklin 17m C1 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, jecklin 17m C2 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, jecklin 17m LR1 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, jecklin 17m LR2 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, omni 17m C1 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, omni 17m C2 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, omni 17m LR1 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, omni 17m LR2 (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, rear 17m C (8.0s)
Sonus Paradisi, Church, Kutna Hora Sedlec, rear 17m LR (8.0s)

PmL81

A collection of IRs of the church of sv. Mikuláš in Prague (CZ). It is one of the largest high baroque churches with a huge dome. Reverberation time approx. 8 s. 3 positions of microphones, 6 different locations of the source. IRs from this collection are unusually bright.

Time/Frequency graph

Source and microphone locations (scheme)

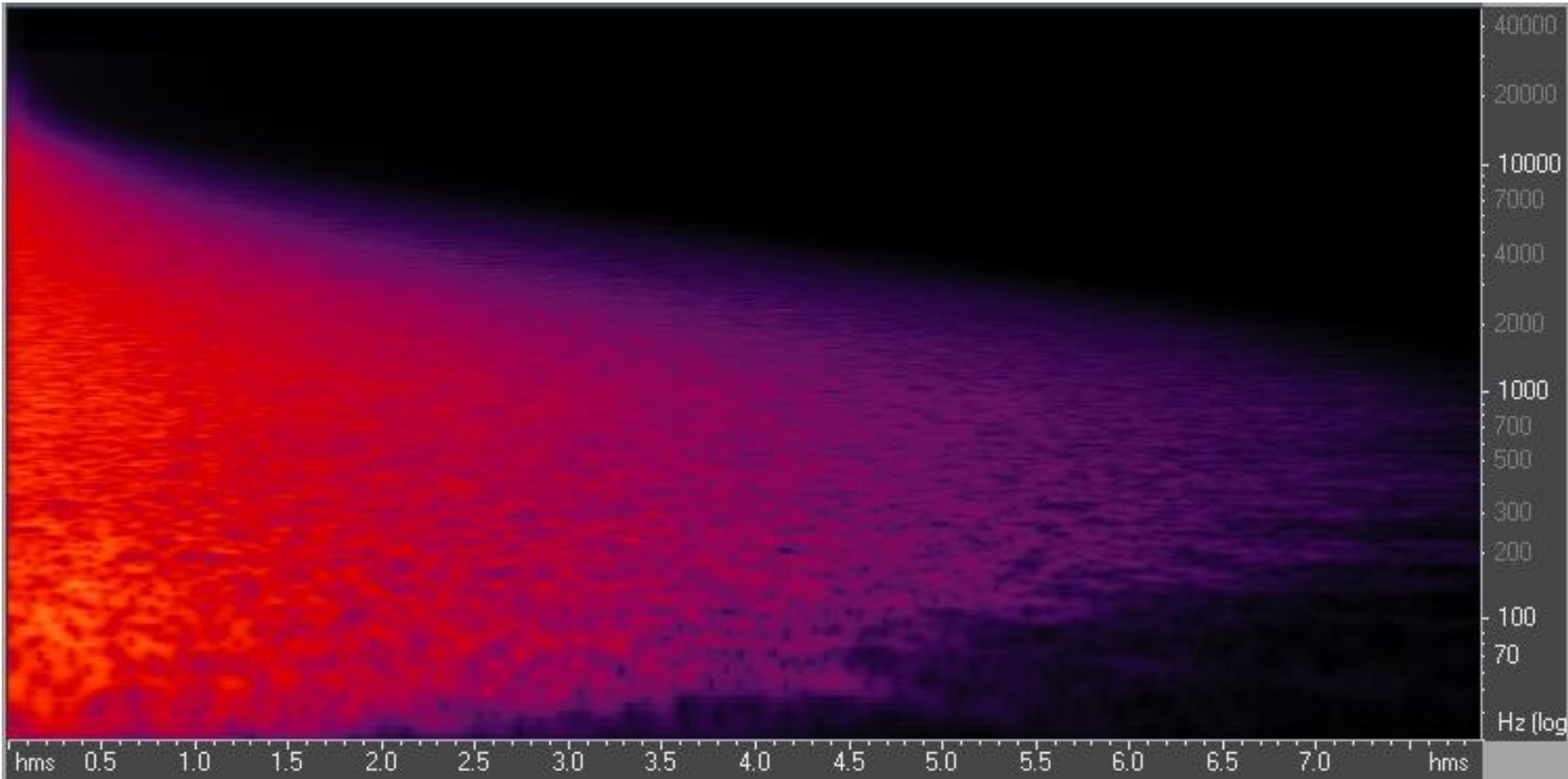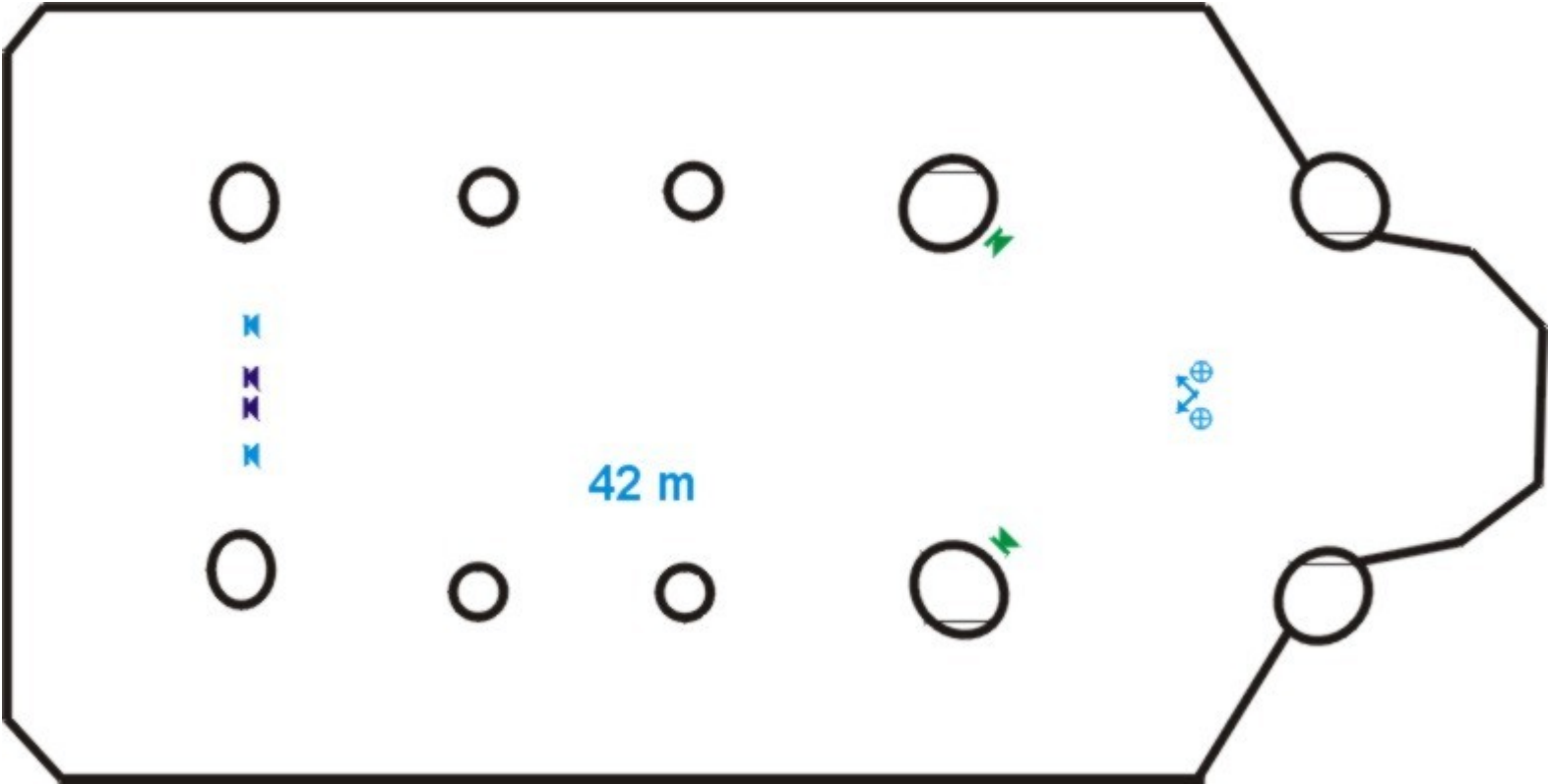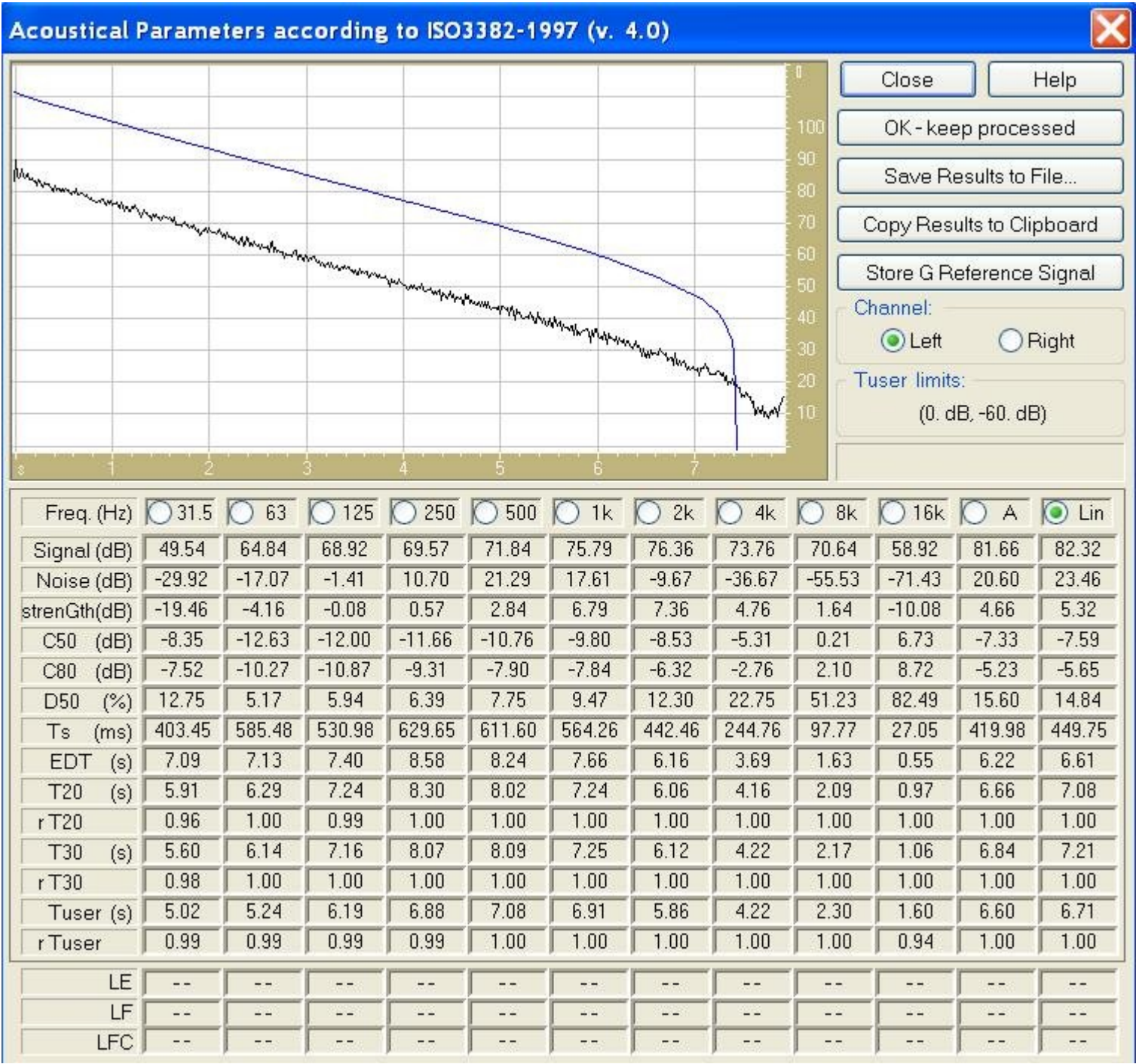**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	49.54	64.84	68.92	69.57	71.84	75.79	76.36	73.76	70.64	58.92	81.66	82.32
Noise (dB)	-29.92	-17.07	-1.41	10.70	21.29	17.61	-9.67	-36.67	-55.53	-71.43	20.60	23.46
strenGth(dB)	-19.46	-4.16	-0.08	0.57	2.84	6.79	7.36	4.76	1.64	-10.08	4.66	5.32
C50 (dB)	-8.35	-12.63	-12.00	-11.66	-10.76	-9.80	-8.53	-5.31	0.21	6.73	-7.33	-7.59
C80 (dB)	-7.52	-10.27	-10.87	-9.31	-7.90	-7.84	-6.32	-2.76	2.10	8.72	-5.23	-5.65
D50 (%)	12.75	5.17	5.94	6.39	7.75	9.47	12.30	22.75	51.23	82.49	15.60	14.84
Ts (ms)	403.45	585.48	530.98	629.65	611.60	564.26	442.46	244.76	97.77	27.05	419.98	449.75
EDT (s)	7.09	7.13	7.40	8.58	8.24	7.66	6.16	3.69	1.63	0.55	6.22	6.61
T20 (s)	5.91	6.29	7.24	8.30	8.02	7.24	6.06	4.16	2.09	0.97	6.66	7.08
r T20	0.96	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	5.60	6.14	7.16	8.07	8.09	7.25	6.12	4.22	2.17	1.06	6.84	7.21
r T30	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	5.02	5.24	6.19	6.88	7.08	6.91	5.86	4.22	2.30	1.60	6.60	6.71
r Tuser	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00	0.94	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 9 items

Sonus Paradisi, Church, Prague Mikulas, cardio 42m C (8.2s)
Sonus Paradisi, Church, Prague Mikulas, cardio 42m LR (8.2s)
Sonus Paradisi, Church, Prague Mikulas, cardio dome LR (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omni 42m C (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omni 42m LR (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omni dome LR (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omniW 42m C (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omniW 42m LR (8.2s)
Sonus Paradisi, Church, Prague Mikulas, omniW dome LR (8.2s)

Hup84

A collection of IRs of the Humprecht castle (CZ). Reverberation time approx. 8 s. The IRs represent a renaissance dining hall without furniture. You have 3 different positions of the source, 6 mic positions.

Time/Frequency graph

Source and microphone locations (scheme)

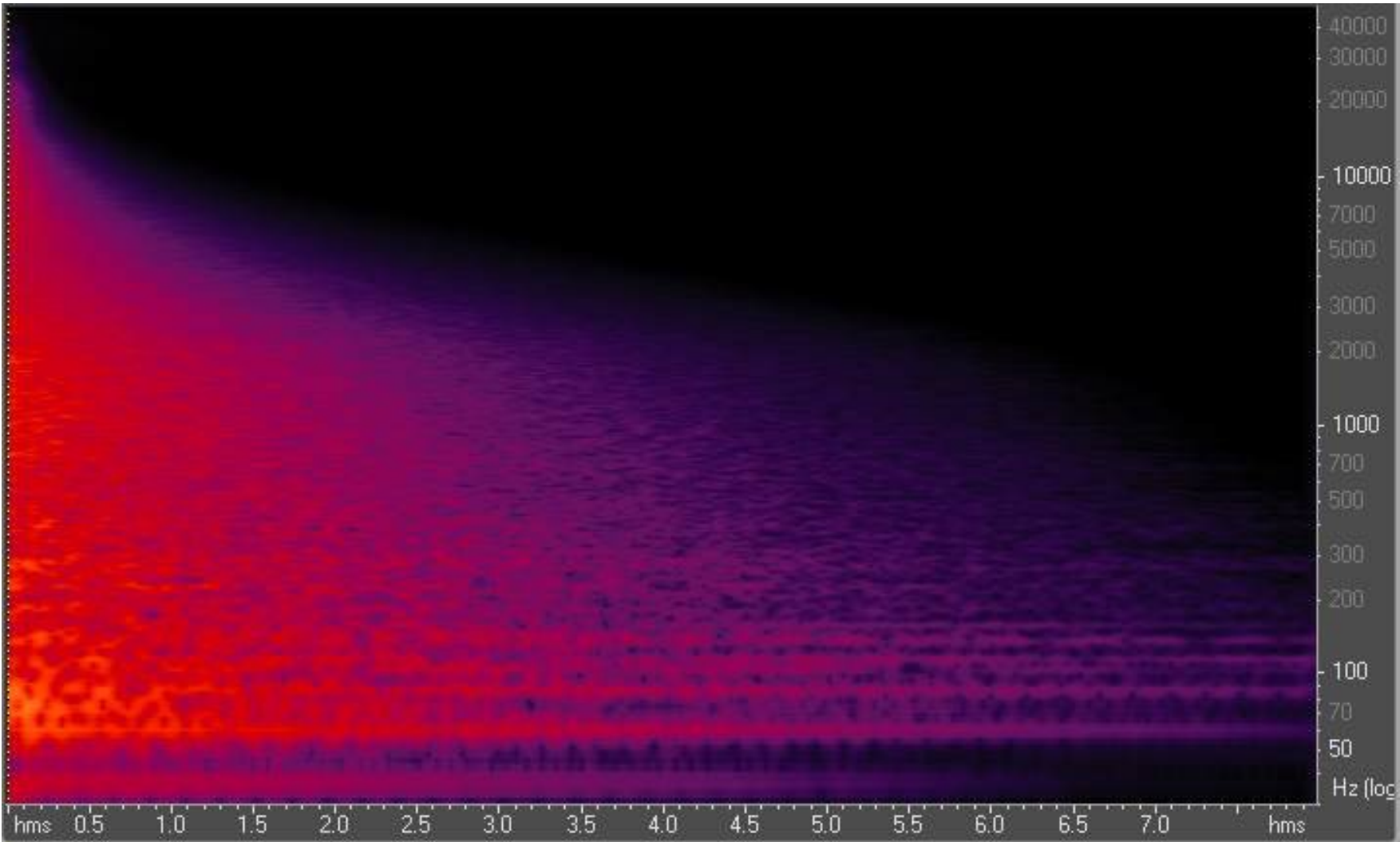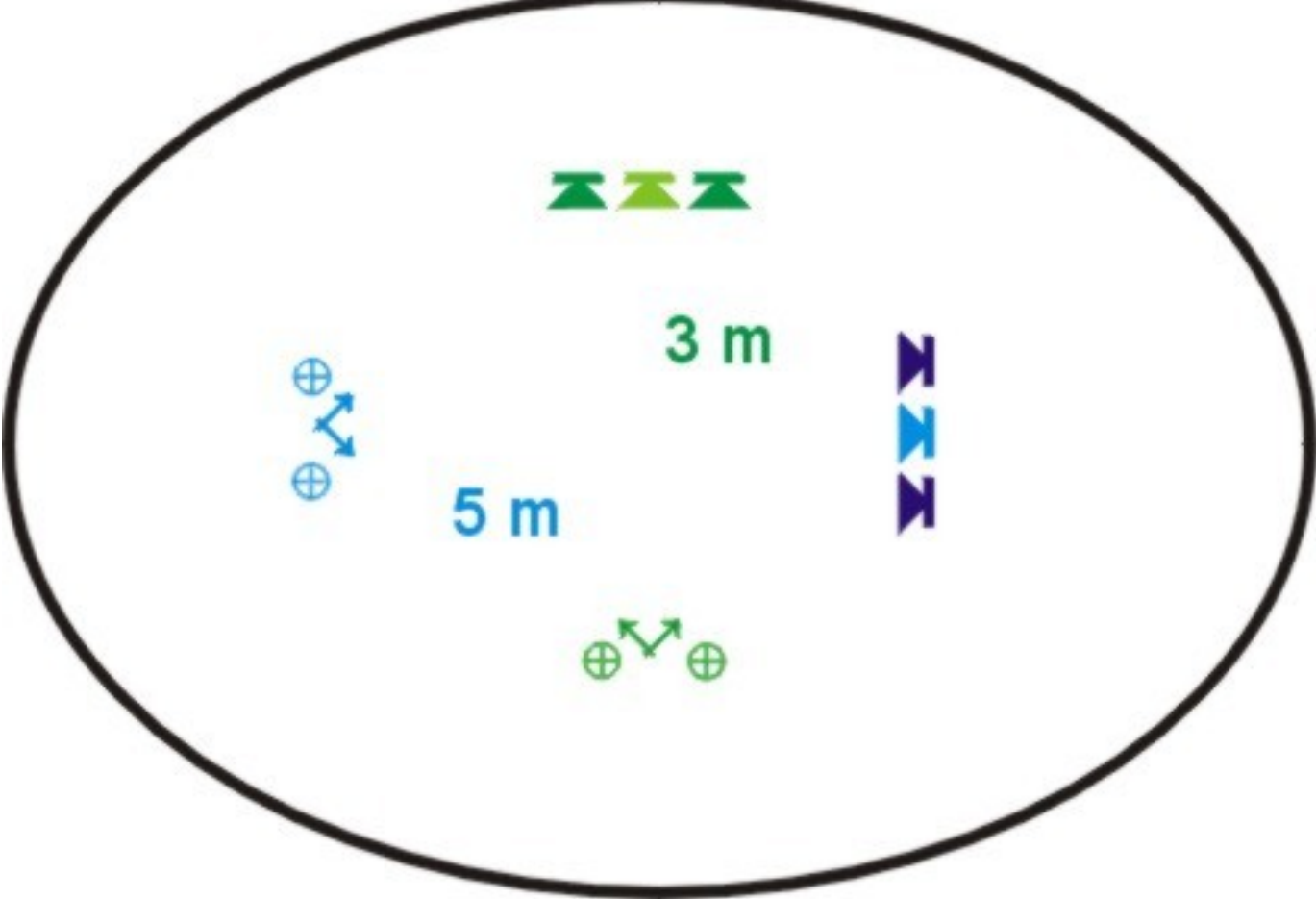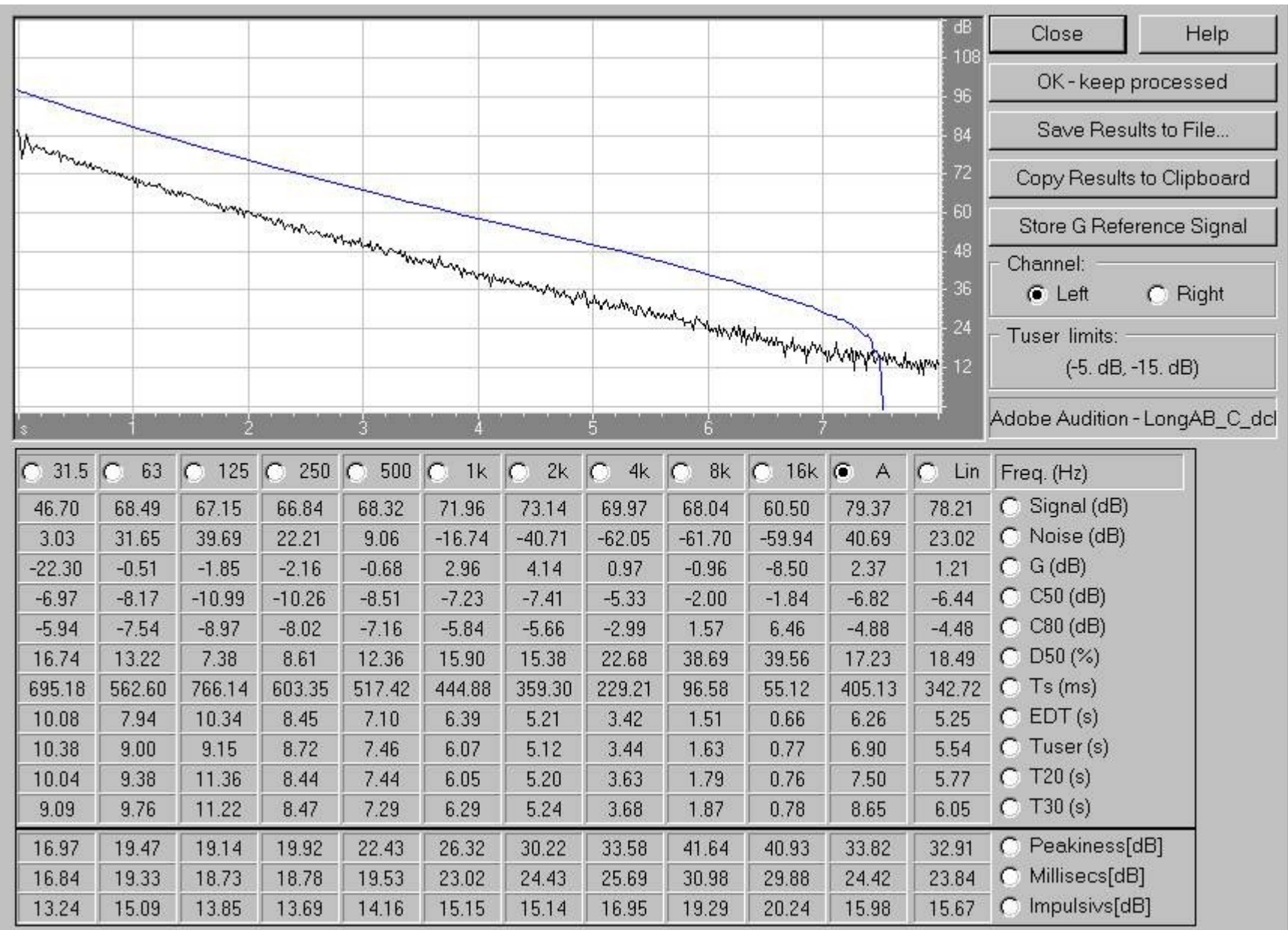**Acoustical Parameters (Adobe Audition plug-in of A. Farina)**

| Close | Help |
| OK - keep processed |
| Save Results to File... |
| Copy Results to Clipboard |
| Store G Reference Signal |

Channel: ● Left   ○ Right

Tuser limits: (-5. dB, -15. dB)

Adobe Audition - LongAB_C_dcl

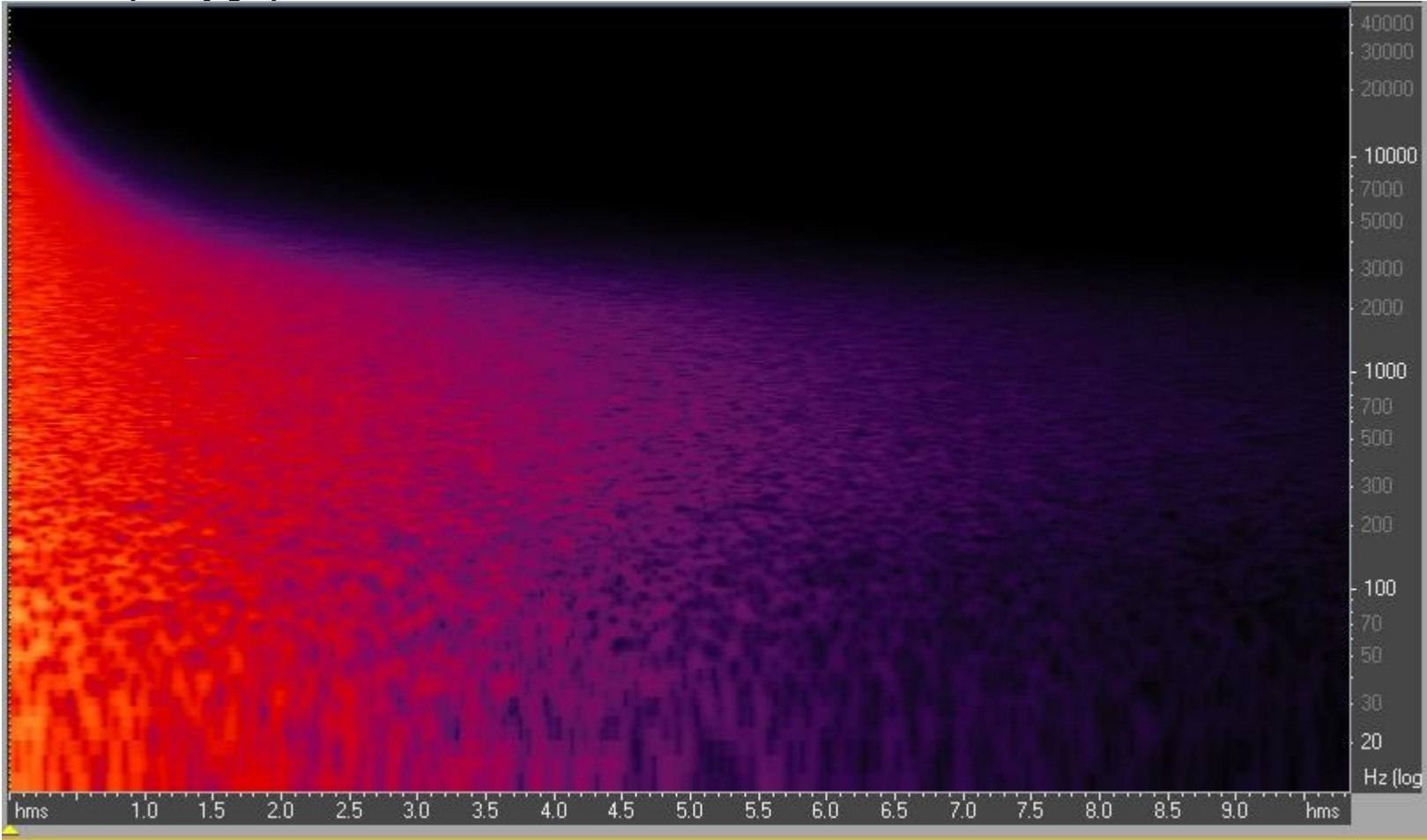| 31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin	Freq. (Hz)
46.70	68.49	67.15	66.84	68.32	71.96	73.14	69.97	68.04	60.50	79.37	78.21	Signal (dB)
3.03	31.65	39.69	22.21	9.06	-16.74	-40.71	-62.05	-61.70	-59.94	40.69	23.02	Noise (dB)
-22.30	-0.51	-1.85	-2.16	-0.68	2.96	4.14	0.97	-0.96	-8.50	2.37	1.21	G (dB)
-6.97	-8.17	-10.99	-10.26	-8.51	-7.23	-7.41	-5.33	-2.00	-1.84	-6.82	-6.44	C50 (dB)
-5.94	-7.54	-8.97	-8.02	-7.16	-5.84	-5.66	-2.99	1.57	6.46	-4.88	-4.48	C80 (dB)
16.74	13.22	7.38	8.61	12.36	15.90	15.38	22.68	38.69	39.56	17.23	18.49	D50 (%)
695.18	562.60	766.14	603.35	517.42	444.88	359.30	229.21	96.58	55.12	405.13	342.72	Ts (ms)
10.08	7.94	10.34	8.45	7.10	6.39	5.21	3.42	1.51	0.66	6.26	5.25	EDT (s)
10.38	9.00	9.15	8.72	7.46	6.07	5.12	3.44	1.63	0.77	6.90	5.54	Tuser (s)
10.04	9.38	11.36	8.44	7.44	6.05	5.20	3.63	1.79	0.76	7.50	5.77	T20 (s)
9.09	9.76	11.22	8.47	7.29	6.29	5.24	3.68	1.87	0.78	8.65	6.05	T30 (s)
16.97	19.47	19.14	19.92	22.43	26.32	30.22	33.58	41.64	40.93	33.82	32.91	Peakiness[dB]
16.84	19.33	18.73	18.78	19.53	23.02	24.43	25.69	30.98	29.88	24.42	23.84	Millisecs[dB]
13.24	15.09	13.85	13.69	14.16	15.15	15.14	16.95	19.29	20.24	15.98	15.67	Impulsivs[dB]

List of IRs in the collection - 12 items

Sonus Paradisi, Hall, Humprecht, cardio 3m C (8.5s)
Sonus Paradisi, Hall, Humprecht, cardio 3m LR (8.5s
Sonus Paradisi, Hall, Humprecht, cardio 5m C (8.5s)
Sonus Paradisi, Hall, Humprecht, cardio 5m LR (8.5s)
Sonus Paradisi, Hall, Humprecht, omni 3m C (8.5s)
Sonus Paradisi, Hall, Humprecht, omni 3m LR (8.5s)
Sonus Paradisi, Hall, Humprecht, omni 5m C (8.5s)
Sonus Paradisi, Hall, Humprecht, omni 5m LR (8.5s)
Sonus Paradisi, Hall, Humprecht, omniW 3m C (8.5s)
Sonus Paradisi, Hall, Humprecht, omniW 3m LR (8.5s)
Sonus Paradisi, Hall, Humprecht, omniW 5m C (8.5s)
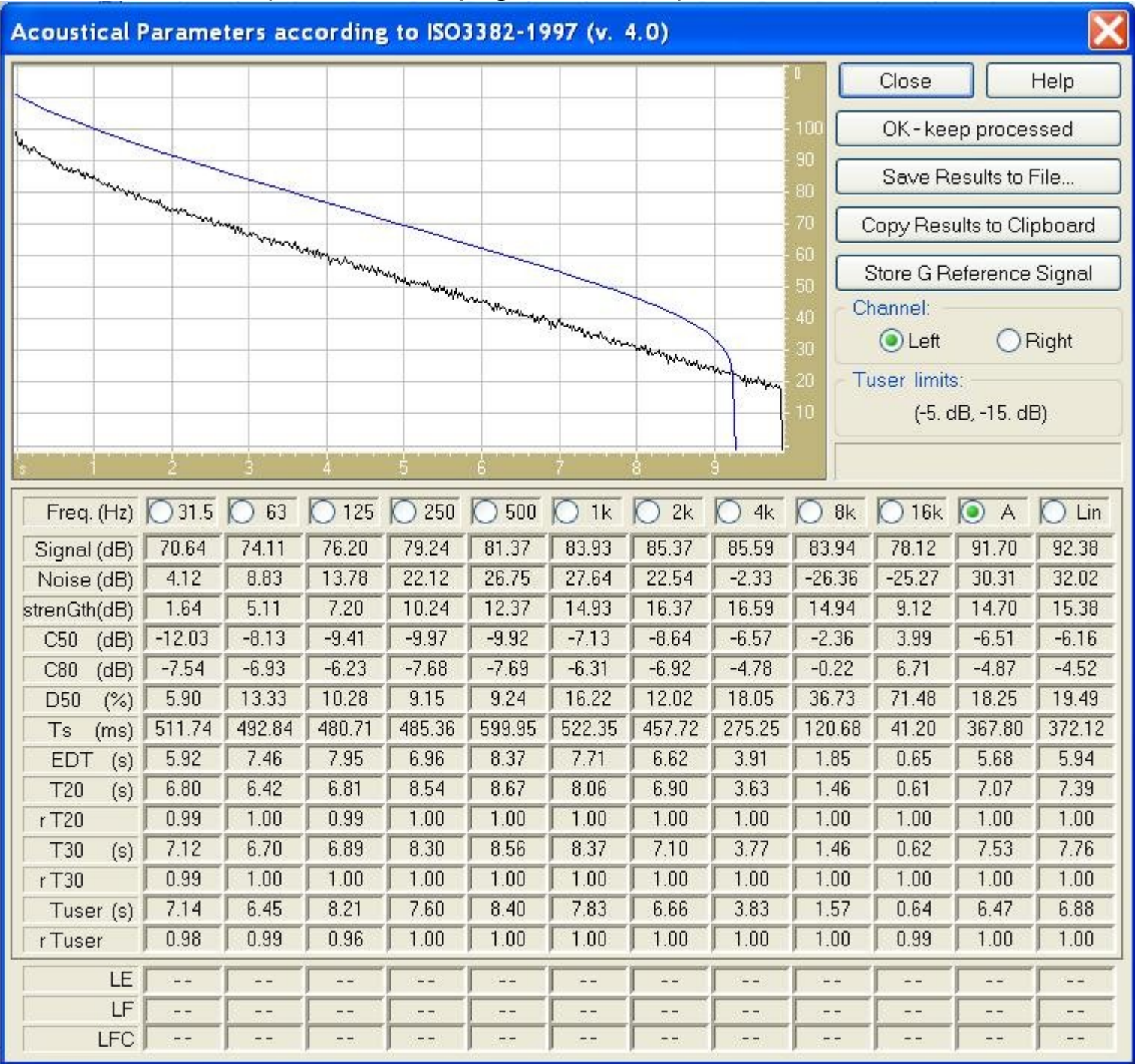Sonus Paradisi, Hall, Humprecht, omniW 5m LR (8.5s)

VCha15xlong

An artificial true stereo IR, very low resonance, high density from the start, over 8 seconds.

Time/Frequency graph

Freq. (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	16k	A	Lin
Signal (dB)	70.64	74.11	76.20	79.24	81.37	83.93	85.37	85.59	83.94	78.12	91.70	92.38
Noise (dB)	4.12	8.83	13.78	22.12	26.75	27.64	22.54	-2.33	-26.36	-25.27	30.31	32.02
strenGth(dB)	1.64	5.11	7.20	10.24	12.37	14.93	16.37	16.59	14.94	9.12	14.70	15.38
C50 (dB)	-12.03	-8.13	-9.41	-9.97	-9.92	-7.13	-8.64	-6.57	-2.36	3.99	-6.51	-6.16
C80 (dB)	-7.54	-6.93	-6.23	-7.68	-7.69	-6.31	-6.92	-4.78	-0.22	6.71	-4.87	-4.52
D50 (%)	5.90	13.33	10.28	9.15	9.24	16.22	12.02	18.05	36.73	71.48	18.25	19.49
Ts (ms)	511.74	492.84	480.71	485.36	599.95	522.35	457.72	275.25	120.68	41.20	367.80	372.12
EDT (s)	5.92	7.46	7.95	6.96	8.37	7.71	6.62	3.91	1.85	0.65	5.68	5.94
T20 (s)	6.80	6.42	6.81	8.54	8.67	8.06	6.90	3.63	1.46	0.61	7.07	7.39
r T20	0.99	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
T30 (s)	7.12	6.70	6.89	8.30	8.56	8.37	7.10	3.77	1.46	0.62	7.53	7.76
r T30	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Tuser (s)	7.14	6.45	8.21	7.60	8.40	7.83	6.66	3.83	1.57	0.64	6.47	6.88
r Tuser	0.98	0.99	0.96	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
LE	--	--	--	--	--	--	--	--	--	--	--	--
LF	--	--	--	--	--	--	--	--	--	--	--	--
LFC	--	--	--	--	--	--	--	--	--	--	--	--

List of IRs in the collection - 2 items
Sonus Paradisi, Church, Vcha15xlong, Artificial LR (8.6s)
Sonus Paradisi, Church, Vcha15xlongtx, Artificial LR (8.6s)

"tx" variant gives "bigger" sound.