

Measurement Protocol

Measurement Object	noise measurement
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Project	BFX-AT100
Report Generation Date	5/22/2019 3:13 PM
Responsible Person	Acoustics
Normal mode test condition	1.The distance between DUT and microphone is 50 cm 2.Power on TV 3.Play 4k video 4.Use 4955 microphone to record ambient noise
Stand by mode test condition	1.The distance between DUT and microphone is 50 cm 2.Power on TV 3.Use 4955 microphone to record ambient noise



Status Overview

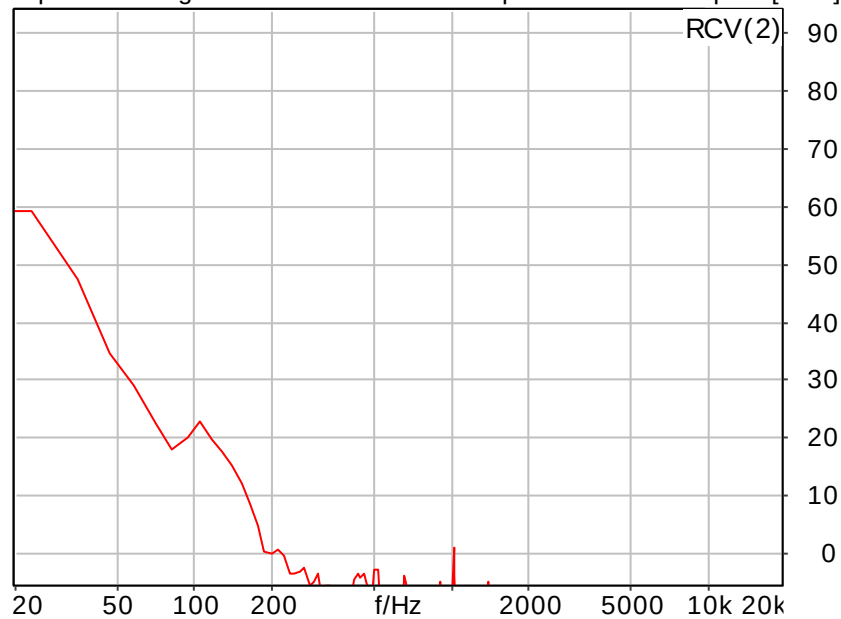
SMD	Status	Single Value Description	Single Value	Object
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.15	Normal mode -ambient noise
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.52	Normal mode -ambient noise -front
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.61	Normal mode -ambient noise -back
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	18.03	Normal mode -ambient noise -left
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.41	Normal mode -ambient noise -right
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.94	Normal mode -ambient noise -top
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	16.49	Stand by mode -ambient noise
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	16.91	Stand by mode -ambient noise -front
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	16.85	Stand by mode -ambient noise -left
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	17.22	Stand by mode -ambient noise -right
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	16.88	Stand by mode -ambient noise -back
0.1 Ambient noise level	Ok	Level [dB20μPa(A)]	16.54	Stand by mode -ambient noise -top

0.1 Ambient noise level	7
0.1 Ambient noise level	9
0.1 Ambient noise level	11
0.1 Ambient noise level	13
0.1 Ambient noise level	15
0.1 Ambient noise level	17
0.1 Ambient noise level	19
0.1 Ambient noise level	21
0.1 Ambient noise level	23
0.1 Ambient noise level	25
0.1 Ambient noise level	27
0.1 Ambient noise level	29

0.1 Ambient noise level

Ambient noise level normal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 17.15 dB20μPa(A) Ok

Ok

5/15/2019 2:05 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20uPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

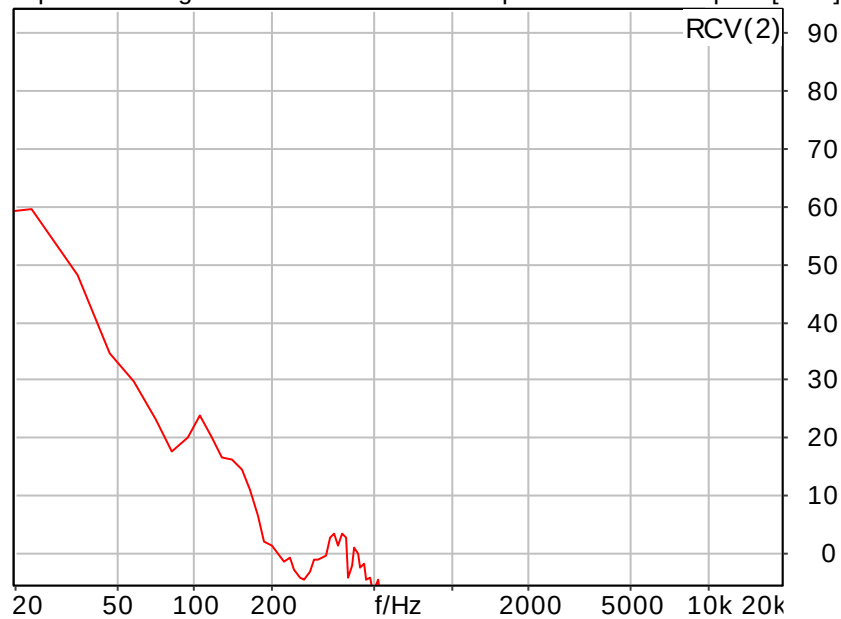
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

front nomal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Ok

5/15/2019 2:28 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

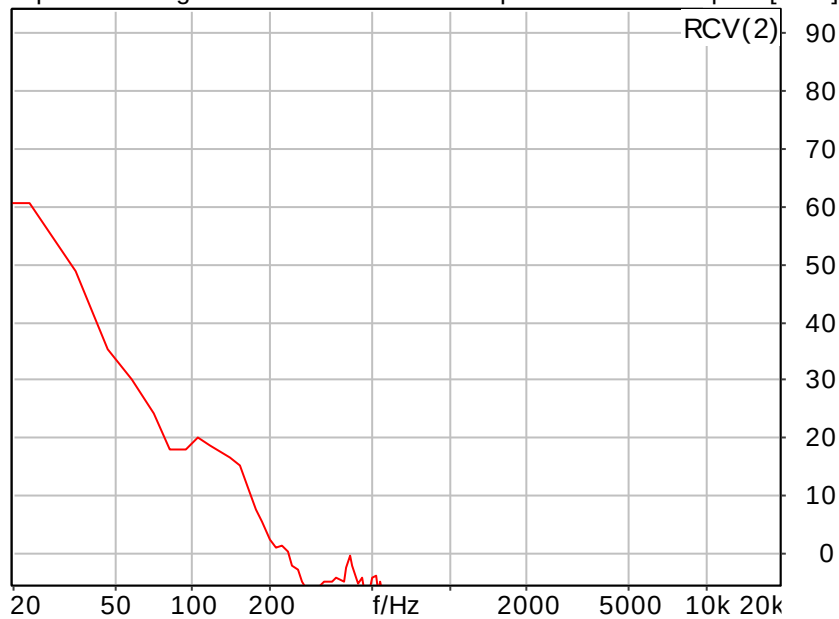
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

back normal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 17.61 dB20μPa(A) Ok

Ok

5/15/2019 2:30 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

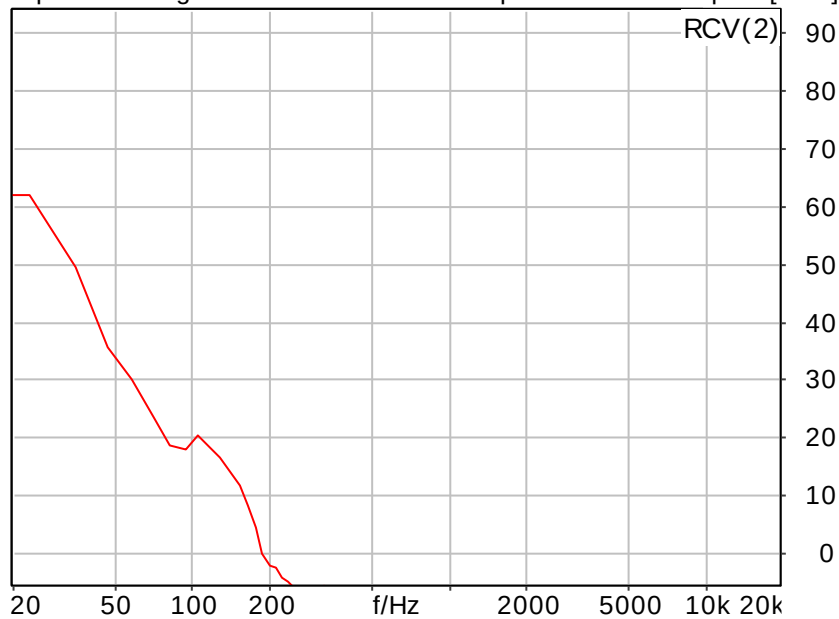
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

left nomal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 18.03 dB20μPa(A) Ok

Ok

5/15/2019 2:31 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

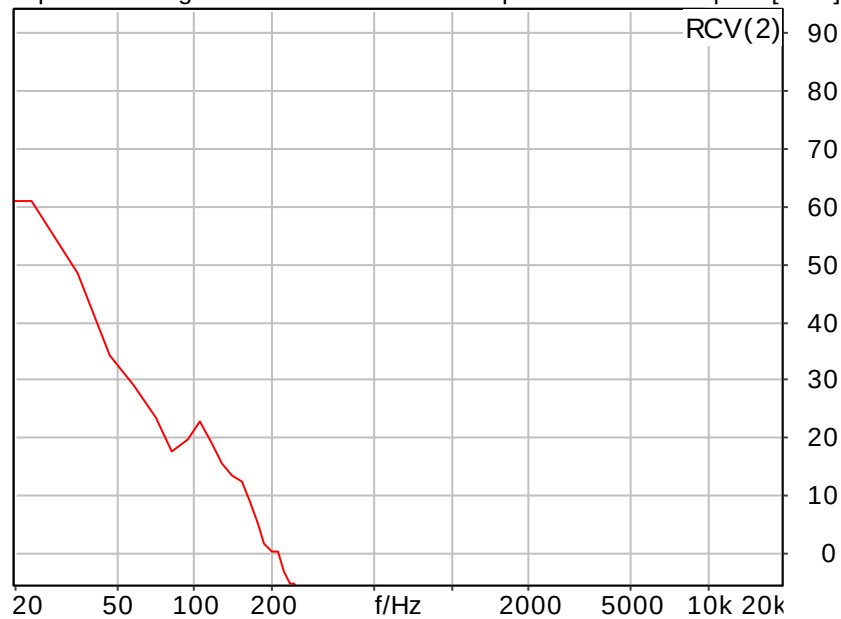
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

right normal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Ok

5/15/2019 2:34 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

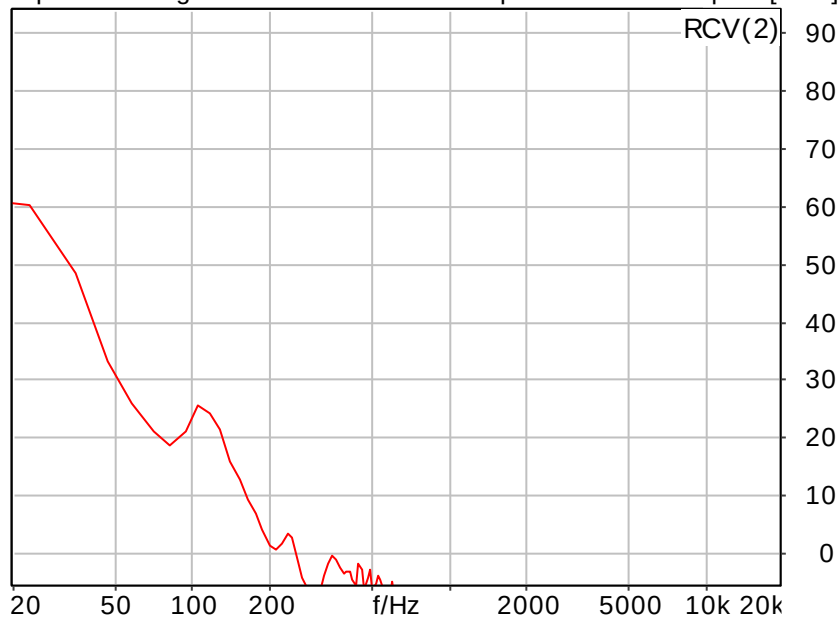
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

top nomal mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Ok

5/15/2019 2:35 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting B&K_4955

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: B&K_4955)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	Line
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

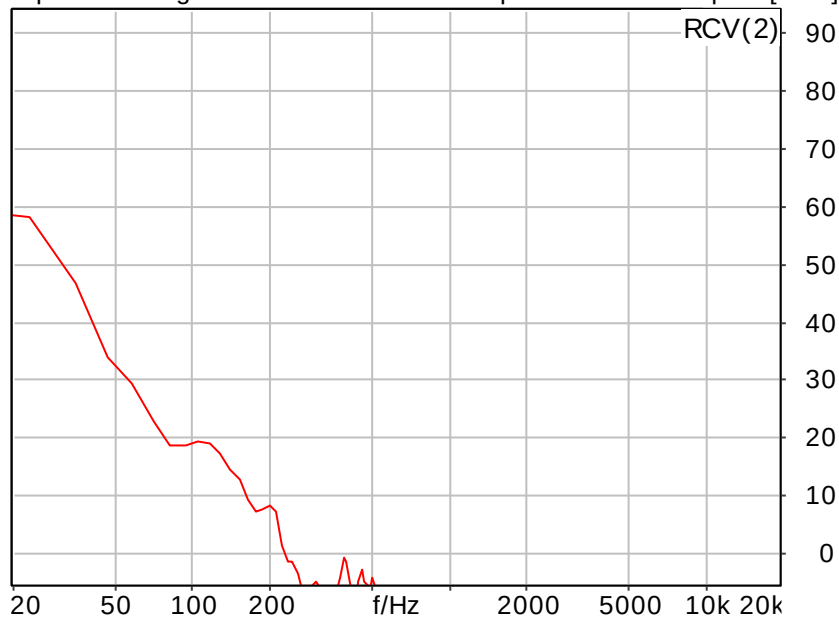
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 16.49 dB20μPa(A) Ok

Ok

5/22/2019 9:59 AM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

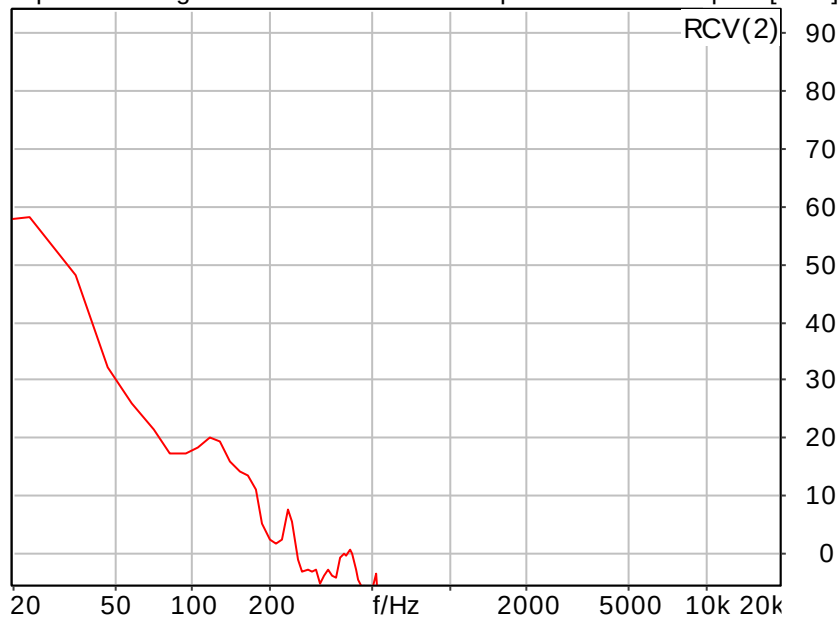
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-front-stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 16.91 dB20μPa(A) Ok

Ok

5/22/2019 11:45 AM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2
Input Ch.1	Line	Input Ch.2
Highpass	20 Hz	Line

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

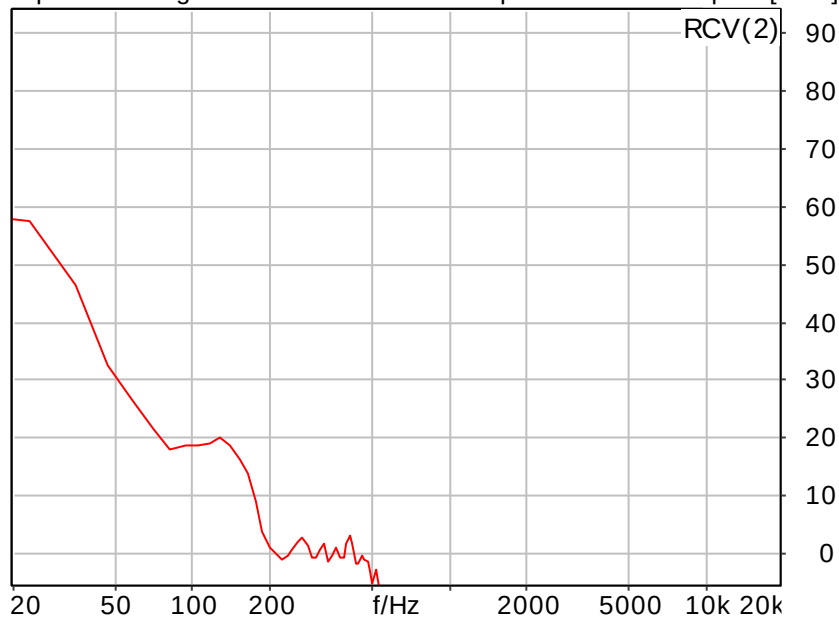
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-left-stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 16.85 dB20μPa(A) Ok

Ok

5/22/2019 11:48 AM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20uPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

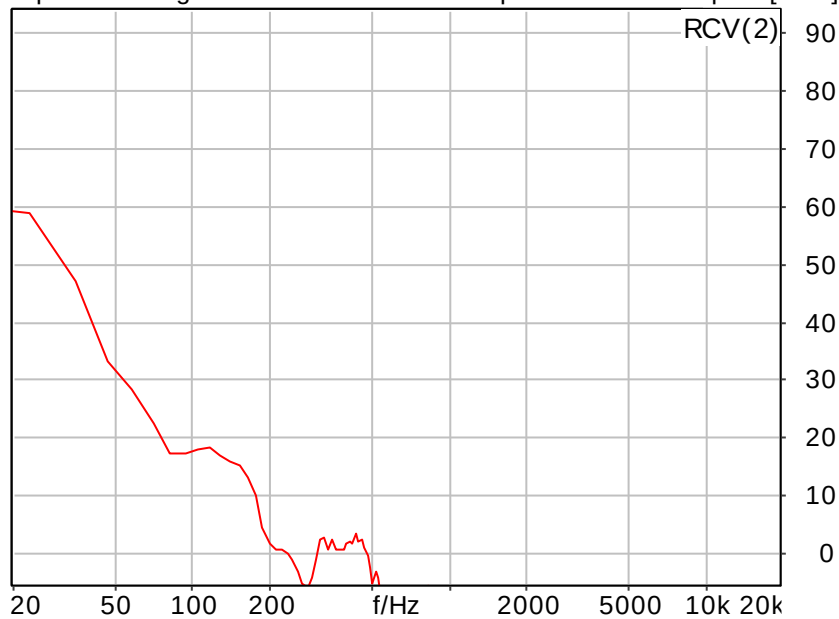
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-right -stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 17.22 dB20μPa(A) Ok

Ok

5/22/2019 12:00 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20uPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2	
Input Ch.1	Line	Input Ch.2	Line
Highpass	20 Hz		

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

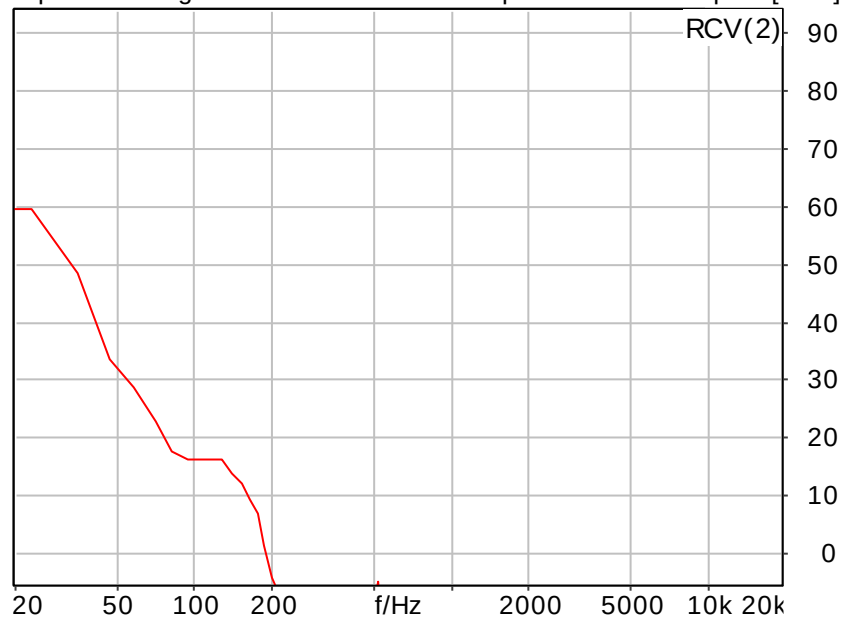
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-back-stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 16.88 dB20μPa(A) Ok

Ok

5/22/2019 1:50 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2
Input Ch.1	Line	Input Ch.2
Highpass	20 Hz	Line

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

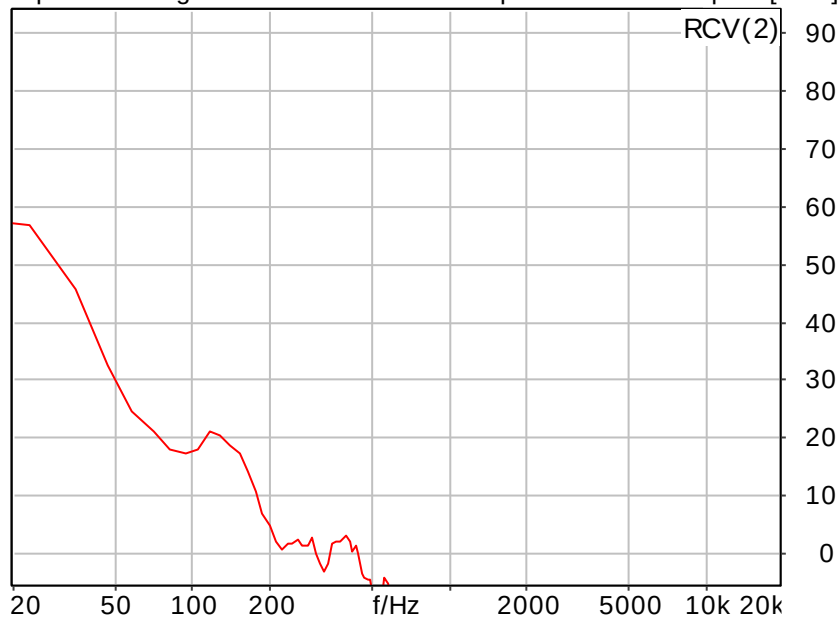
Output
Packet length
From AES

Channel 1
20 ms
Channel 2

0.1 Ambient noise level

Ambient noise level-top-stand by mode

Spectrum avg. FFT Size:4096 Overlap:75.0% Hannir p/dB[SPL]



Level: 16.54 dB20μPa(A) Ok

Ok

5/22/2019 1:55 PM ACQUA 3.2.100

Limits

	upper
Run 1	23.00 dB20μPa

Meas. Setting B&K4955 low noise measurement
MFE VI Setting 4955 NOV29

Calibration

Measurement 4955_NOV29 (Ref. Microphone, 0.14 dB 5/8/2019, User defined)

Analysis

Range start	0.00 ms	Range length	10000.00 ms
Frequency base	Transformation		
FFT size	4096	Overlap	75
Window fct.	Hanning	Smooth	Off
Analysis bandwidth	octave		

Special Features

Store to variable AMBNOISE

MFE VI Settings (Setting: 4955 NOV29)

Output Ch.1	Mouth Amp., HP + Line + Sym.	Output Ch.2
Input Ch.1	Line	Input Ch.2
Highpass	20 Hz	Line

MFE VIII Settings (Setting: Golden Config)

VoiP No call

Input
Codec
To AES

Channel 2
 μ -Law
Off

Output
Packet length
From AES

Channel 1
20 ms
Channel 2