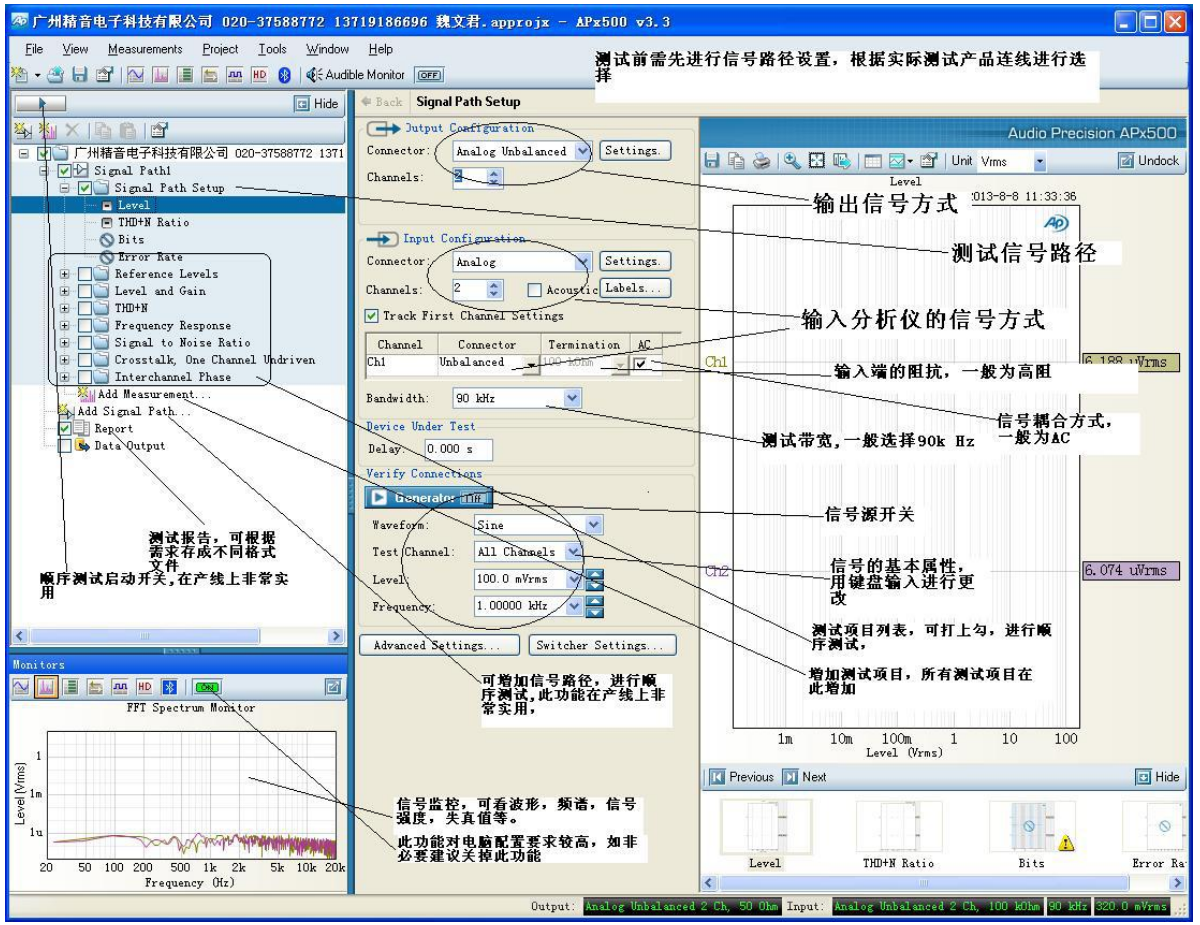
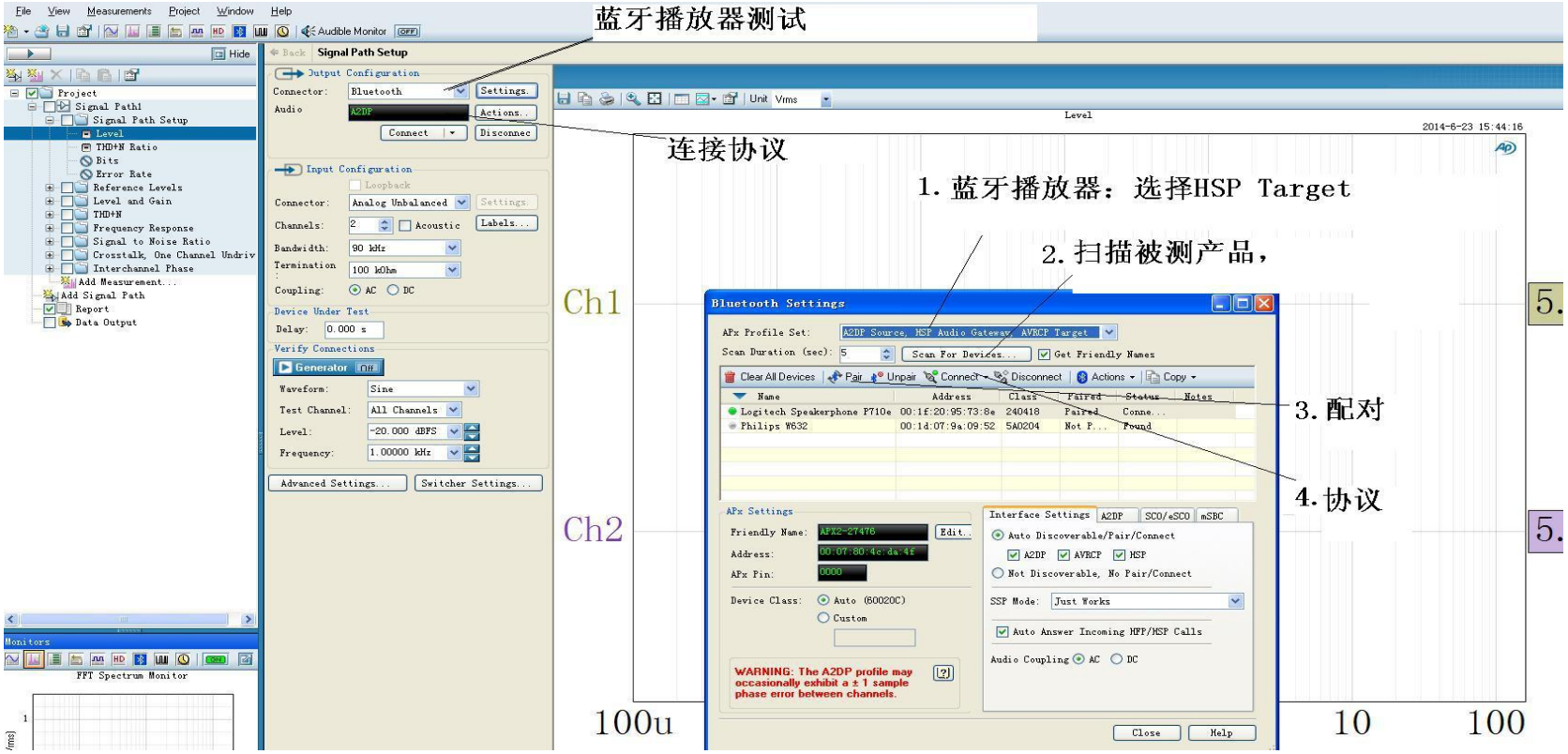
APX 测试简易手册


广州精音电子科技有限公司 020-37588772 13719186696 魏文君.approjx - APx500 v3.3
File View Measurements Project Tools Window Help
Audible Monitor
测试前需先进行信号路径设置，根据实际测试产品连线进行选择
Hide
Signal Path Setup
Output Configuration
Connector: Analog Unbalanced
Settings...
Channels: 2
Input Configuration
Connector: Analog
Settings...
Channels: 2
Acoustic
Labels...
Track First Channel Settings
Channel Connector Termination AC
Ch1 Unbalanced
Bandwidth: 90 kHz
Device Under Test
Delay: 0.000 s
Verify Connections
Generator
Waveform: Sine
Test Channel: All Channels
Level: 100.0 mVrms
Frequency: 1.00000 kHz
Advanced Settings...
Switcher Settings...
广州精音电子科技有限公司 020-37588772 1371
Signal Path1
Signal Path Setup
Level
THD+N Ratio
Bits
Error Rate
Reference Levels
Level and Gain
THD+N
Frequency Response
Signal to Noise Ratio
Crosstalk, One Channel Undriven
Interchannel Phase
Add Measurement...
Add Signal Path...
Report
Data Output
Audio Precision APx500
Unit Vrms
Undock
Level
2013-8-8 11:33:36
Ch1
Ch2
6.074 uVrms
1m 10m 100m 1 10 100
Level (Vrms)
Previous
Next
Hide
Level
THD+N Ratio
Bits
Error Ra
Monitors
FFT Spectrum Monitor
Level (Vrms)
1
1m
1u
20 50 100 200 500 1k 2k 5k 10k 20k
Frequency (Hz)
Output: Analog Unbalanced 2 Ch, 50 Ohm
Input: Analog Unbalanced 2 Ch, 100 kOhm 90 kHz 320.0 mVrms
输出信号方式
测试信号路径
输入分析仪的信号方式
输入端的阻抗，一般为高阻
信号耦合方式，一般为AC
测试带宽，一般选择90k Hz
信号源开关
信号的基本属性，用键盘输入进行更改
测试项目列表，可打上勾，进行顺序测试，
增加测试项目，所有测试项目在此增加
测试报告，可根据需求存成不同格式文件
顺序测试启动开关，在产线上非常实用
可增加信号路径，进行顺序测试，此功能在产线上非常实用，
信号监控，可看波形，频谱，信号强度，失真值等。
此功能对电脑配置要求较高，如非必要建议关掉此功能

信号路径的设置

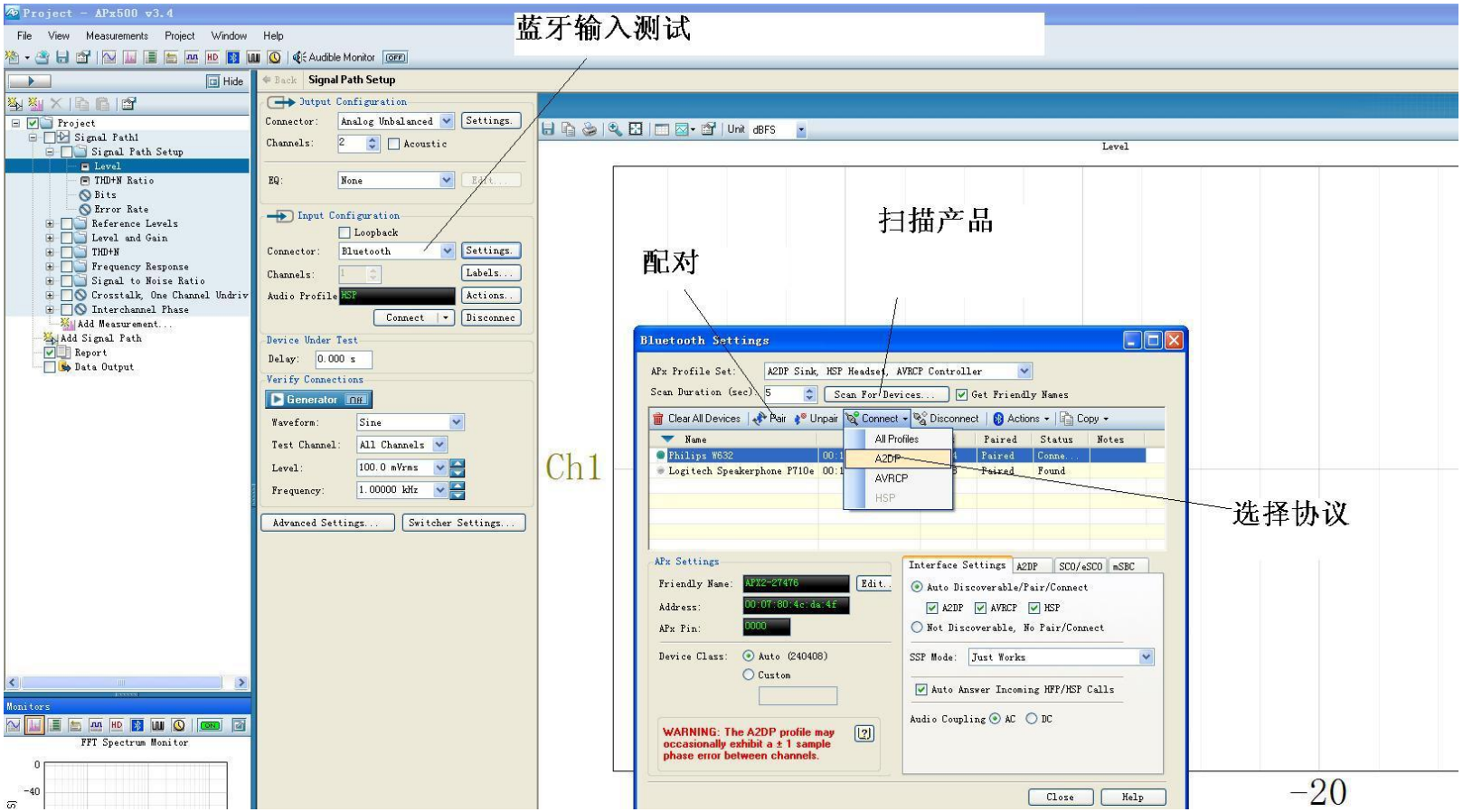
蓝牙播放器测试

1. **在信号源路径中选择 bluetooth.**
2. **点击 settings 进行配对连接。**
3. **选择 A2DP Source HSP**
4. **点击 Scan for devices 搜索被测产品**
5. **点击 pair 进行配对**
6. **连接 A2DP 协议**
7. **开始测试相关测试项目**



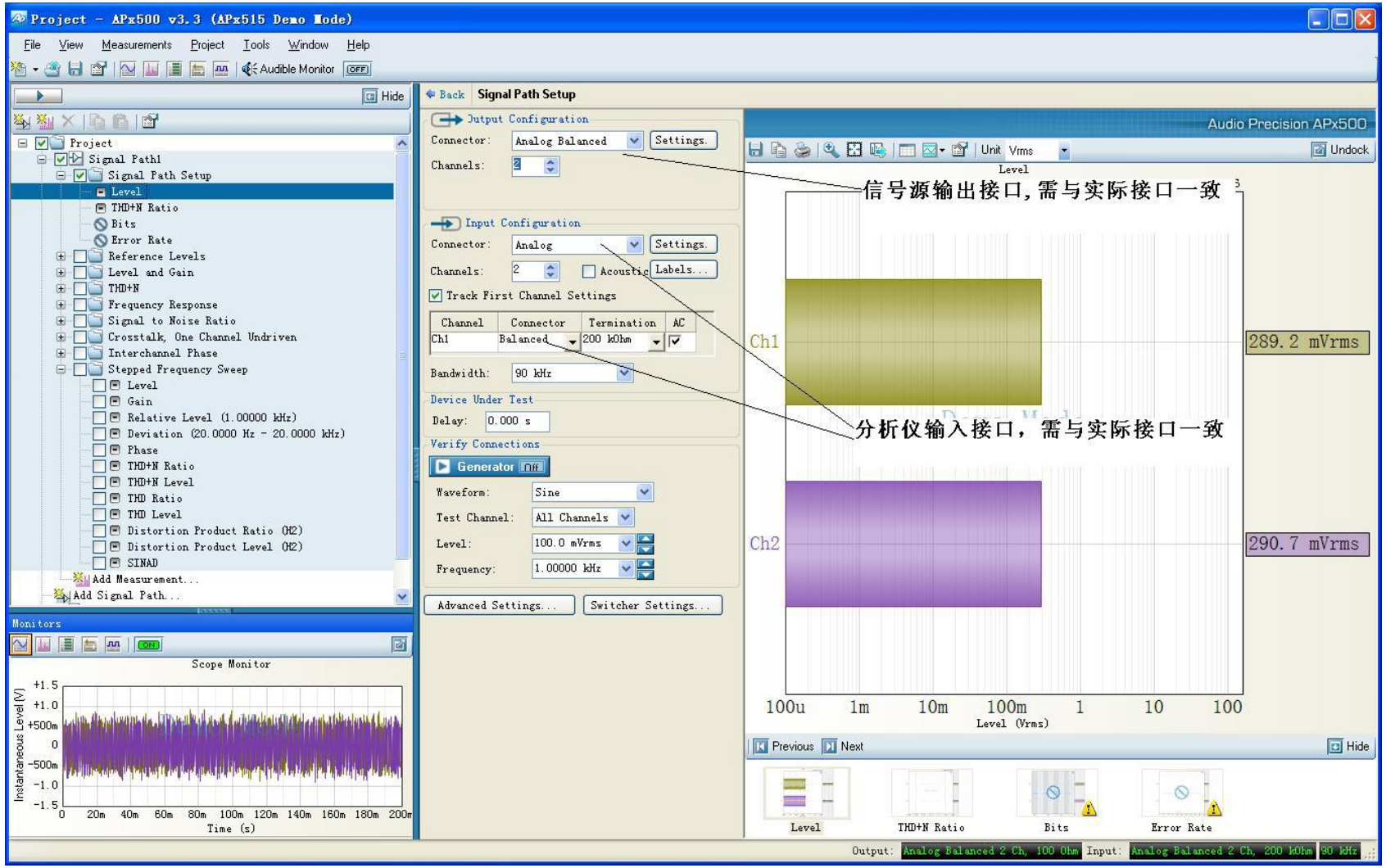
蓝牙主机 (Audio Gateway)的测试

1. Input Configuraton 路径设置 为 bluetooth
2. 点击 settings 进行配对连接。
3. 选择 A2DP link (Hand-free 或者 headset)
4. 点击 Scan for devices 搜索被测产品
5. 点击 pair 进行配对
6. 连接 A2DP 协议
7. 开始测试相关测试项目



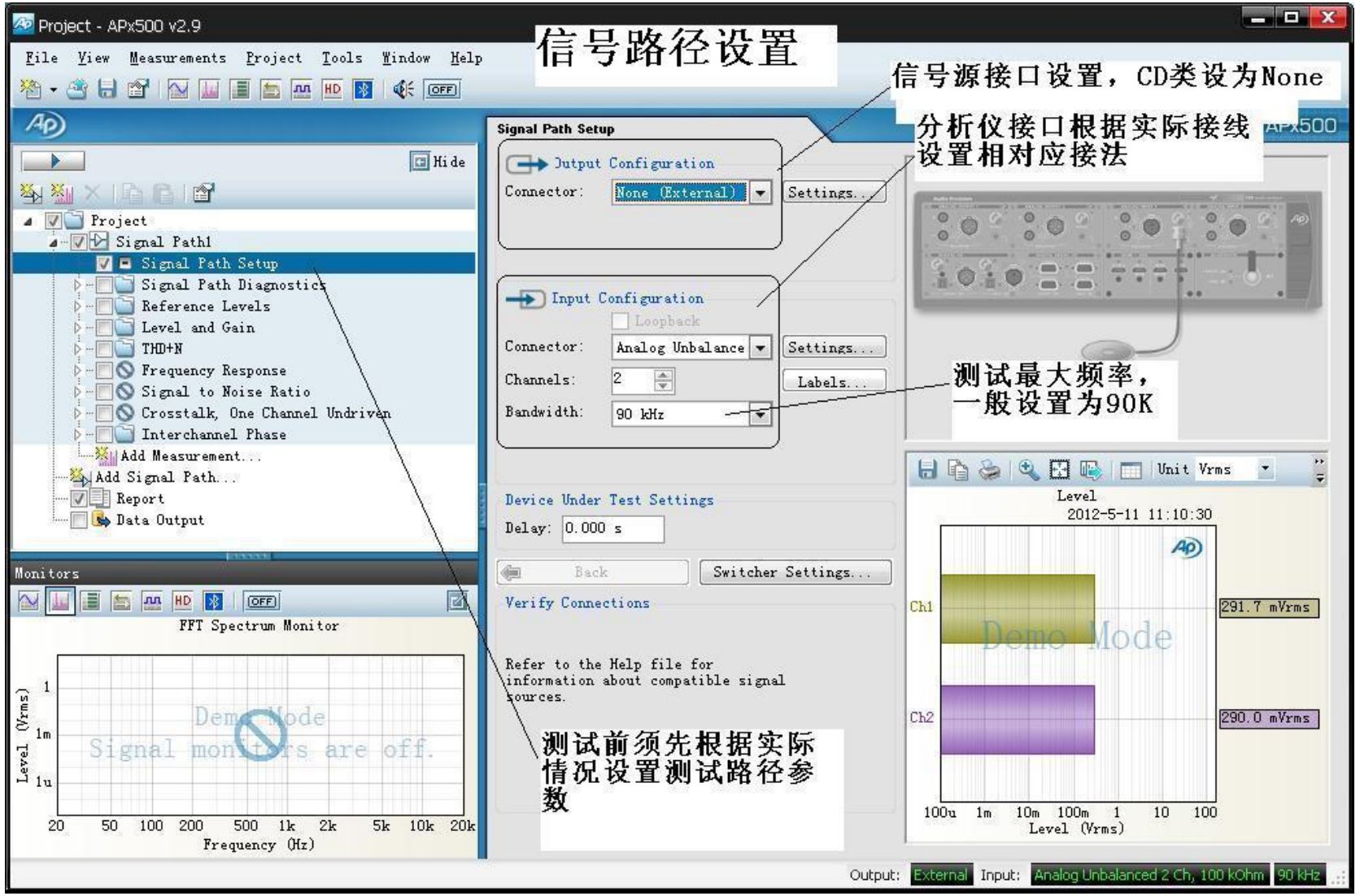
功放测试

1. 根据实际接线，设置信号源的输出信号方式
2. 根据实际接线，设置分析仪的输入信号方式



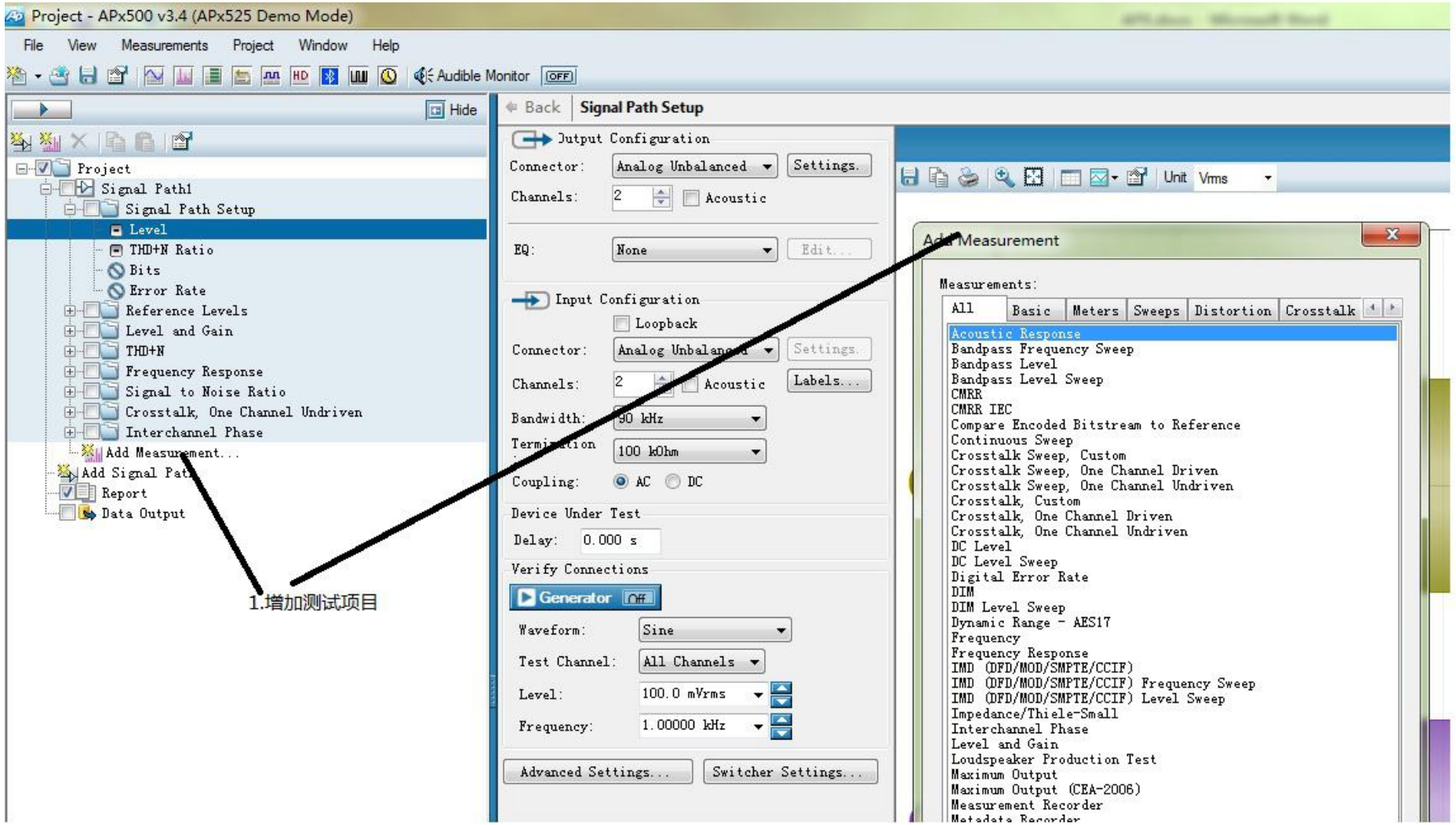
DVD、CD 的测试

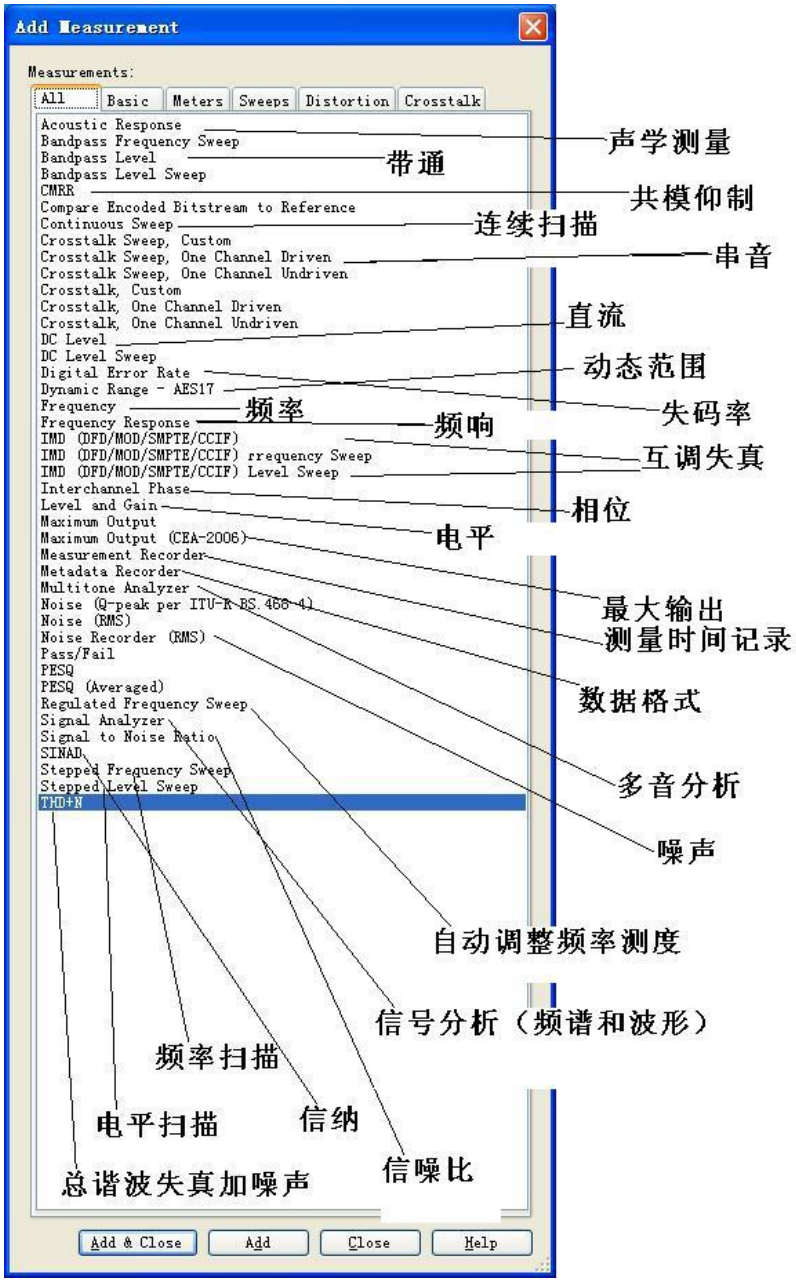
1. **信号源设为 none**
2. **分析仪接口设置与实际接线方式一致。**



选择测试项目

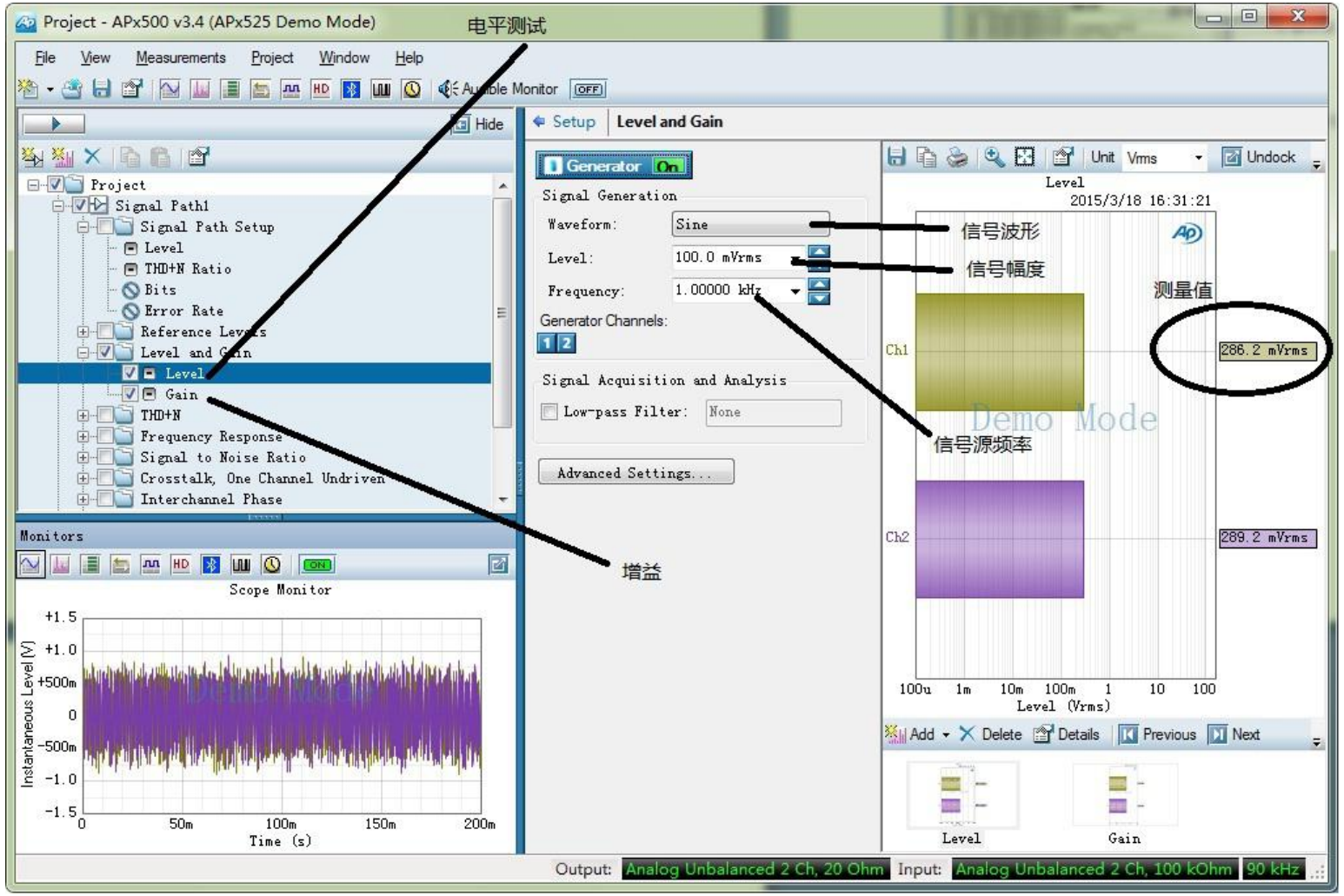
根据测试需求增加项目




Add Measurement
Measurements:
All
Basic
Meters
Sweeps
Distortion
Crosstalk
Acoustic Response
Bandpass Frequency Sweep
Bandpass Level
Bandpass Level Sweep
CMRR
Compare Encoded Bitstream to Reference
Continuous Sweep
Crosstalk Sweep, Custom
Crosstalk Sweep, One Channel Driven
Crosstalk Sweep, One Channel Undriven
Crosstalk, Custom
Crosstalk, One Channel Driven
Crosstalk, One Channel Undriven
DC Level
DC Level Sweep
Digital Error Rate
Dynamic Range - AES17
Frequency
Frequency Response
IMD (DFD/MOD/SMPTE/CCIF)
IMD (DFD/MOD/SMPTE/CCIF) rrequency Sweep
IMD (DFD/MOD/SMPTE/CCIF) Level Sweep
Interchannel Phase
Level and Gain
Maximum Output
Maximum Output (CEA-2006)
Measurement Recorder
Metadata Recorder
Multitone Analyzer
Noise (Q-peak per ITU-R BS.468-4)
Noise (RMS)
Noise Recorder (RMS)
Pass/Fail
PESQ
PESQ (Averaged)
Regulated Frequency Sweep
Signal Analyzer
Signal to Noise Ratio
SINAD
Stepped Frequency Sweep
Stepped Level Sweep
THD+N
Add & Close
Add
Close
Help
声学测量
带通
共模仰制
连续扫描
串音
直流
动态范围
失码率
频率
频响
互调失真
相位
电平
最大输出
测量时间记录
数据格式
多音分析
噪声
自动调整频率测度
信号分析（频谱和波形）
频率扫描
电平扫描
信纳
信噪比
总谐波失真加噪声

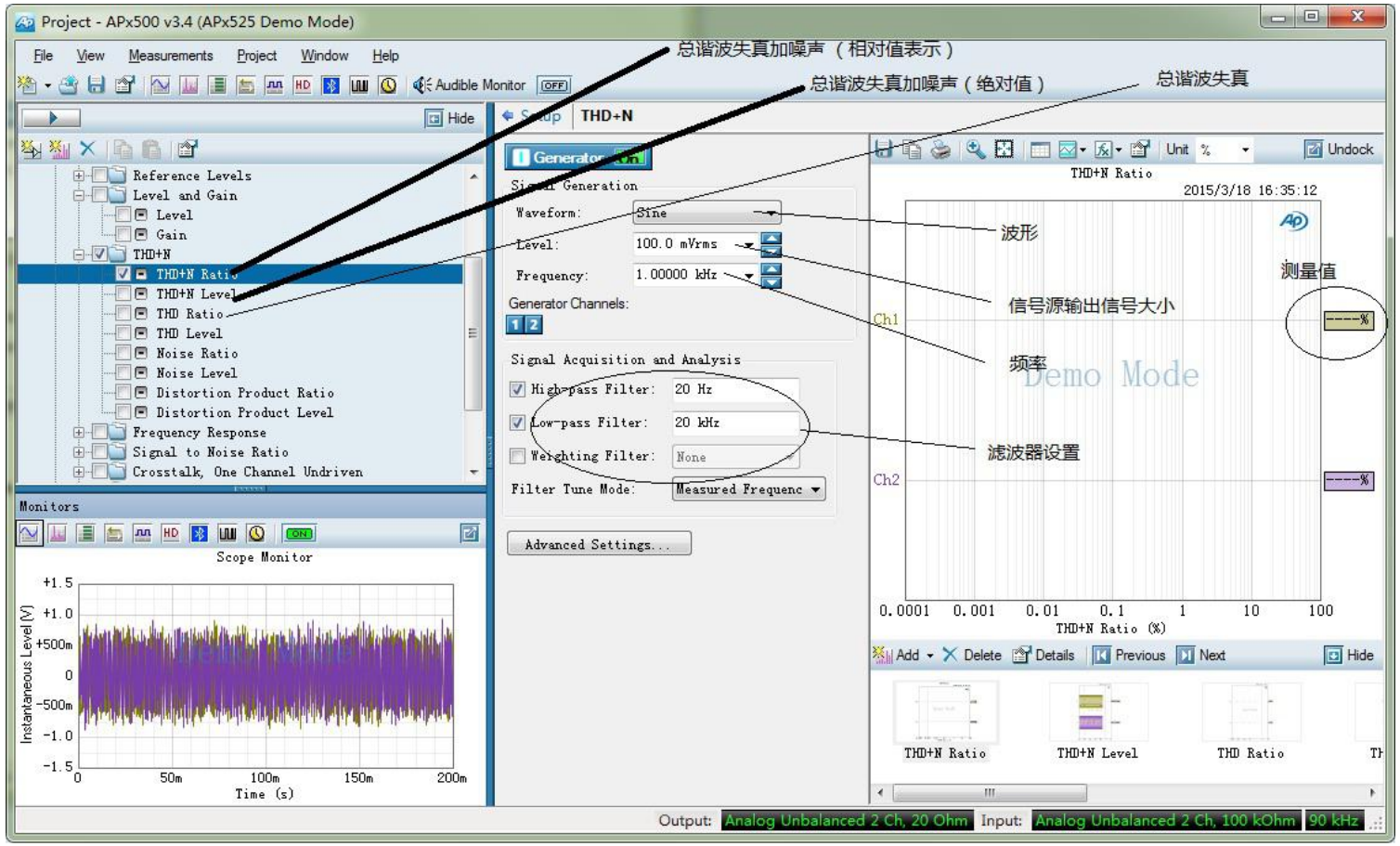
电平测试

1. 设置信号源输出波形
2. 设置信号源大小
3. 设置信号源频率
4. 打开信号源开关
5. 读取测量值



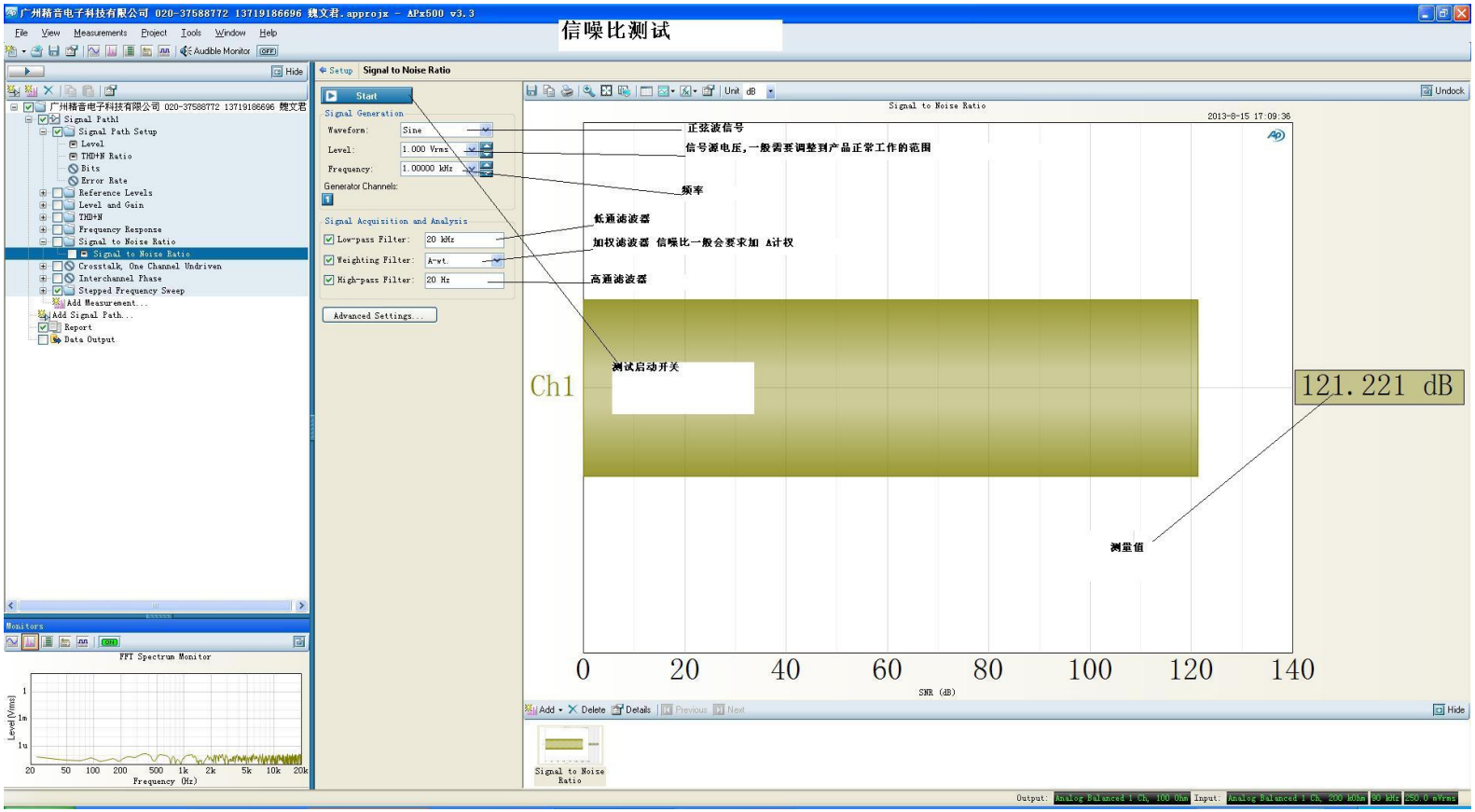
失真测试

1 设置信号源输出波形，
2 设置信号源大小
3 设置信号源频率
4 打开信号源开关
5 按需求设置滤波器
6 读取测量值



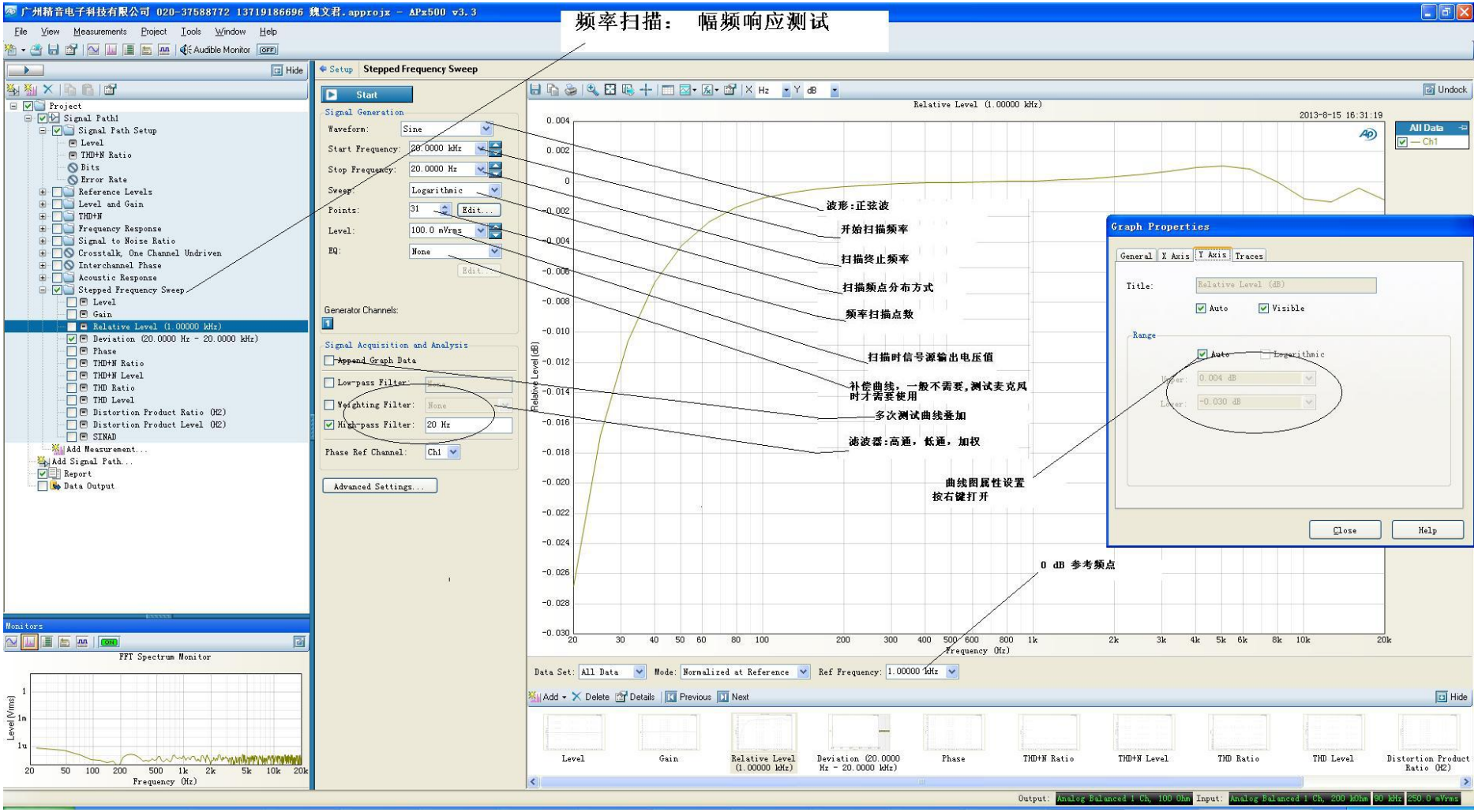
信噪比测试

1. 设置信号源输出波形
2. 设置信号源大小
3. 设置信号源频率
4. 打开信号源开关
5. 按需求设置滤波器
6. 读取测量值



频率扫描测试

1. 设置信号源波形
2. 设置信号源大小
3. 设置信号源开始频率，结束频率，扫描点数
4. 设置滤波器
5. 点击 **Start** 开始测试。



总谐波失真加噪声 频率扫描测试

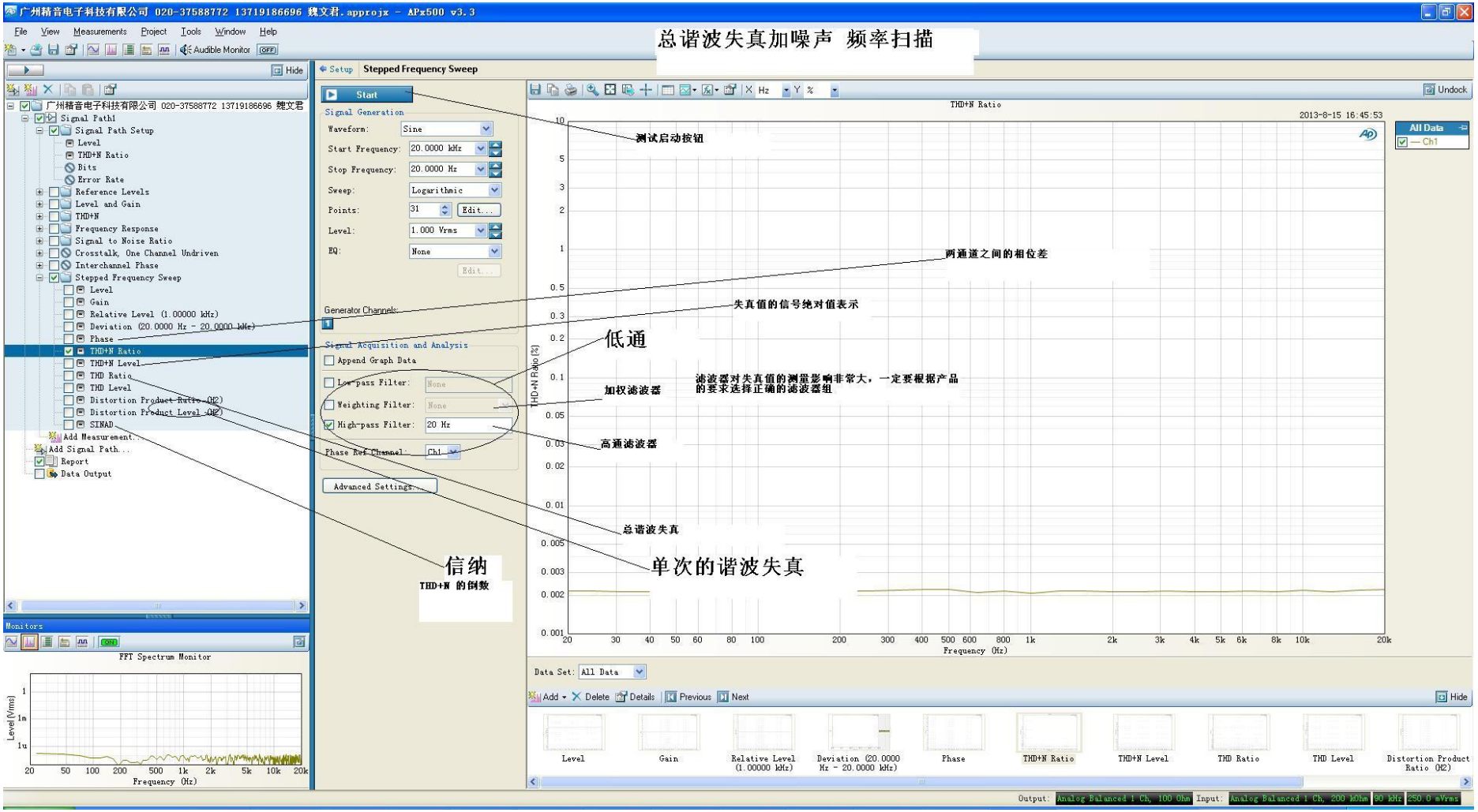
1 设置信号源波形

2 设置信号源大小

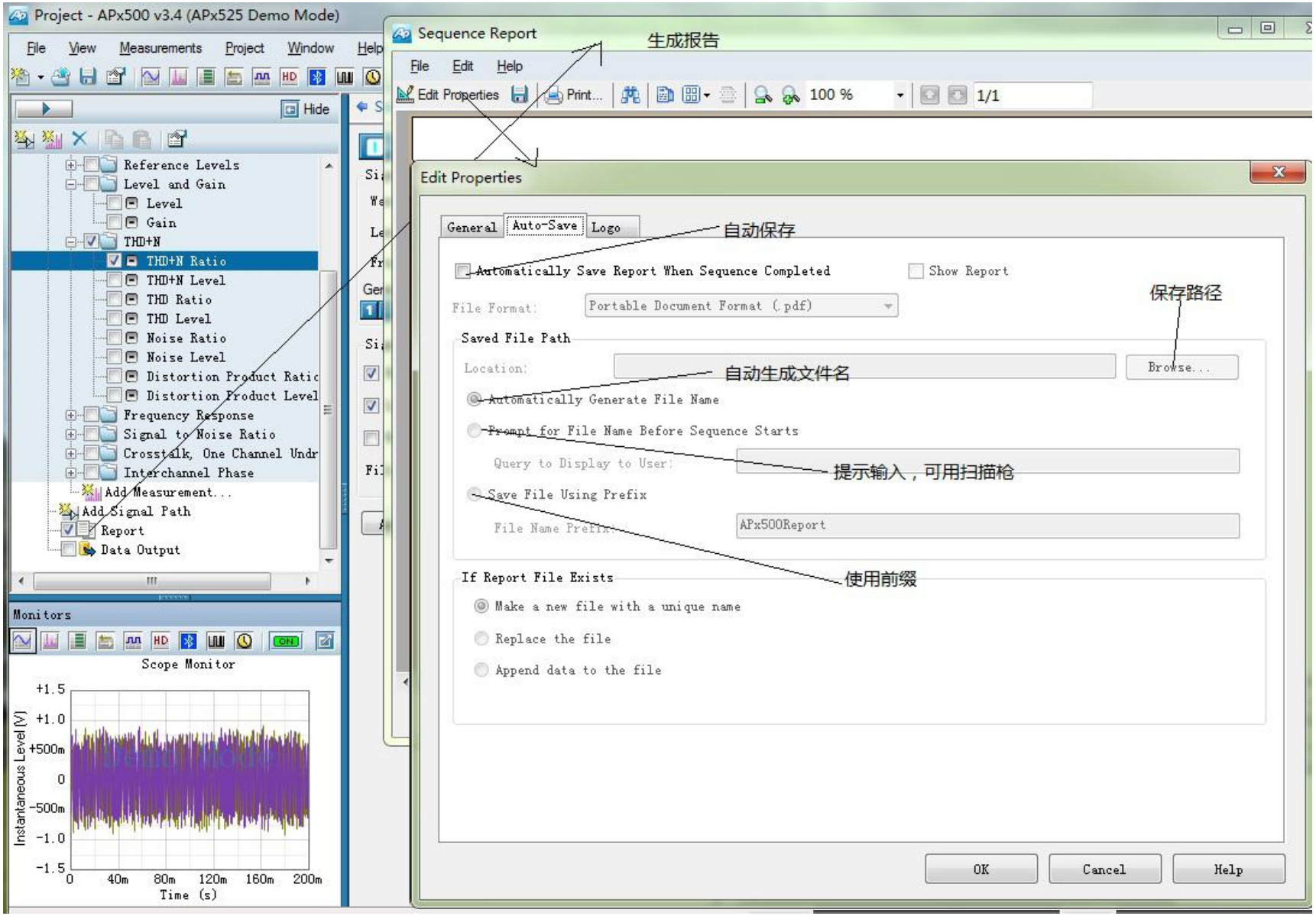
3 设置信号源开始频率，结束频率，扫描点数

4 设置滤波器

5 点击 Start 开始测试



生成测试报告


Project - APx500 v3.4 (APx525 Demo Mode)
File View Measurements Project Window Help
Hide
Reference Levels
Level and Gain
Level
Gain
THD+N
THD+N Ratio
THD+N Level
THD Ratio
THD Level
Noise Ratio
Noise Level
Distortion Product Ratio
Distortion Product Level
Frequency Response
Signal to Noise Ratio
Crosstalk, One Channel Undr
Interchannel Phase
Add Measurement...
Add Signal Path
Report
Data Output
Monitors
Scope Monitor
Instantaneous Level (V)
+1.5
+1.0
+500m
0
-500m
-1.0
-1.5
0
40m
80m
120m
160m
200m
Time (s)
Sequence Report
生成报告
File Edit Help
Edit Properties
Print...
100 %
1/1
Edit Properties
General
Auto-Save
Logo
自动保存
Automatically Save Report When Sequence Completed
Show Report
File Format:
Portable Document Format (.pdf)
保存路径
Saved File Path
Location:
Browse...
自动生成文件名
Automatically Generate File Name
Prompt for File Name Before Sequence Starts
Query to Display to User:
提示输入，可用扫描枪
Save File Using Prefix
File Name Prefix:
APx500Report
使用前缀
If Report File Exists
Make a new file with a unique name
Replace the file
Append data to the file
OK
Cancel
Help