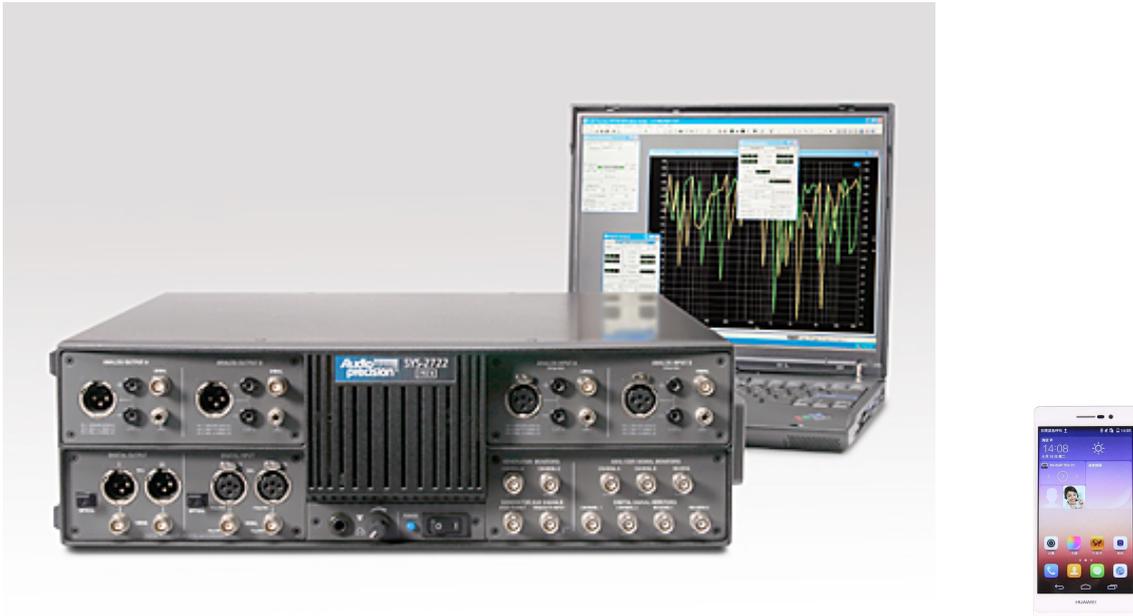


AP2722 音频分析仪测试手机方法



一. 信号连接：手机播放相应测试信号，通过耳机孔输出信号到 AP 2722 音频分析仪输入端

二. 输出电平，失真测试：

手机播放 1K Hz 标准正弦信号，调节音量到指定输出，并正确连接输入端，设置合适的滤波器,读取测试值。



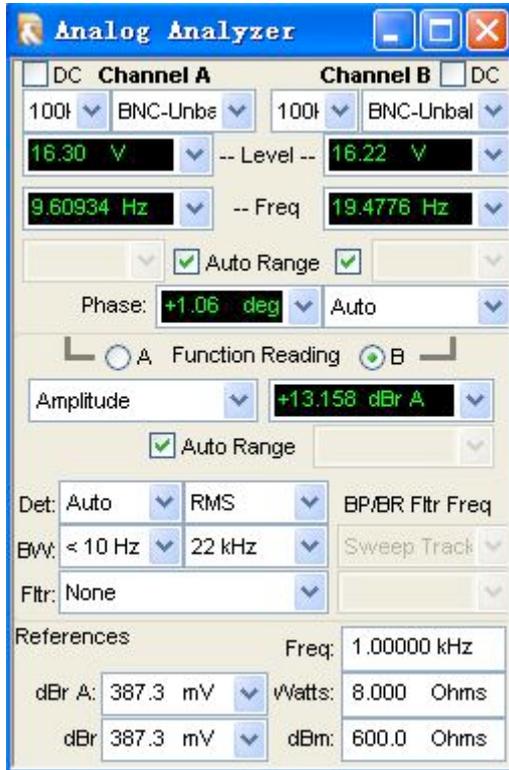
输出电平



总谐波失真加噪声

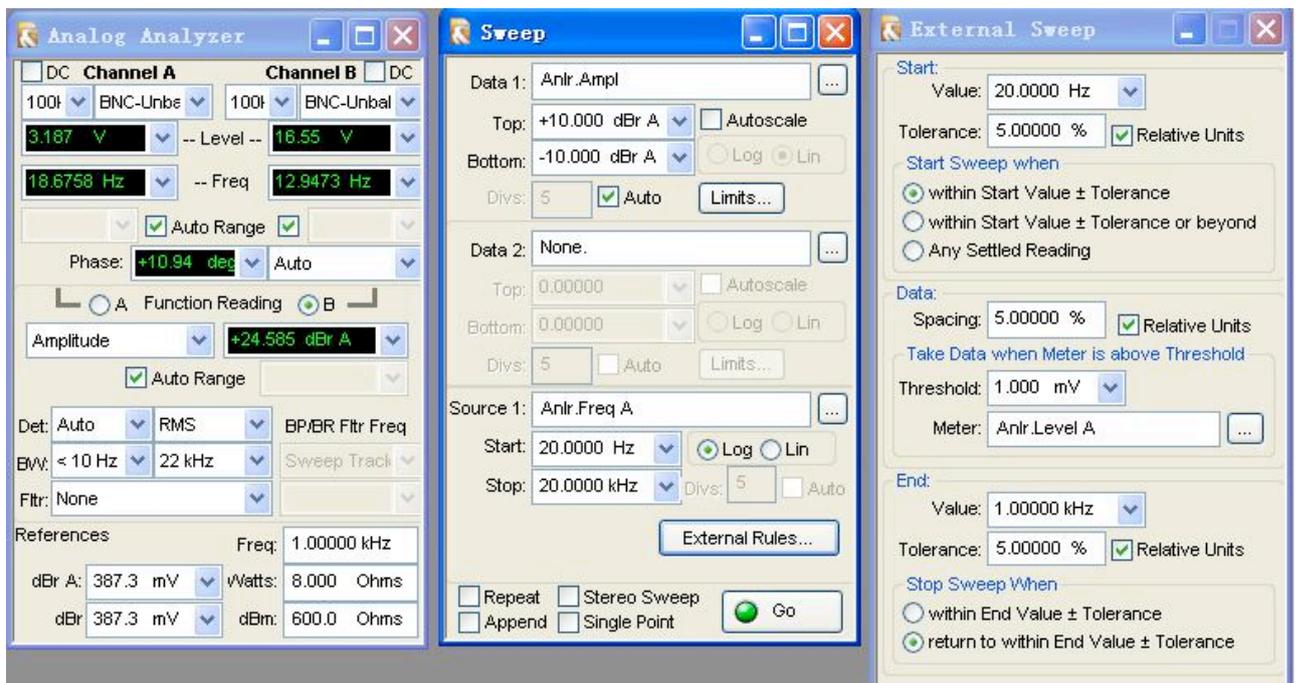
三. 信噪比测量:

1. 播放 1K 测试信号, Amplitude 功能, 设置好滤波器, 单位改为 dBr, 按 F4 键 (将 dBr 值设为 0 dBr).
2. 播放 mute 静音测试信号, 读取测试值.



四. 频率扫描, 幅频响应

1. 连接好信号后, 播放 1K 信号, 按 F4 键, 设参考单位 dBr 为 0 dBr.
2. 在 sweep 面板 Source1 中要选择 Anlr.Freq, Start 中要设为扫频信号的开始频率(这个频率是测试启动信号, 要确认产品能否输出这个信号.)
3. 手机播放相应的扫频信号



五. 失真 VS 频率

The screenshot shows three windows from the software interface:

- Analog Analyzer:** Channel A and Channel B are set to 100Hz BNC-Unbal. Level is 9.470 V and 15.37 V. Frequency is 18.2667 Hz and 6.04296 Hz. THD+N Ratio is 2.95637%. Function Reading is set to B.
- Sweep:** Data 1 is Anlr.TH+N Ratio. Top is 100.000%, Bottom is 0.00010%. Source 1 is Anlr.Freq A. Start is 20.0000 Hz, Stop is 20.0000 kHz.
- External Sweep:** Start Value is 20.0000 Hz. Tolerance is 5.00000%. Start Sweep when is within Start Value ± Tolerance. Meter is Anlr.Level A.

中文标注:

- 信号输入方式, 须与实际一致
- 测试功能设为 THD+N Ratio
- 设为 Anlr.freq a
- 扫频信号的开始频率, 是测试启动信号, 须确认产品能输出这个频率的信号

六. 串音 VS 频率

1 A 通道串音测试

The screenshot shows three windows from the software interface:

- Analog Analyzer:** Channel A and Channel B are set to 100Hz BNC-Unbal. Level is 10.14 V and 5.725 V. Frequency is 4.53713 Hz and 11.2946 Hz. Crosstalk is -16.701 dB. Function Reading is set to A.
- Sweep:** Data 1 is Anlr.Crosstalk. Top is +0.000 dB, Bottom is -120.000 dB. Source 1 is Anlr.Freq B. Start is 20.0000 Hz, Stop is 20.0000 kHz.
- External Sweep:** Start Value is 20.0000 Hz. Tolerance is 5.00000%. Start Sweep when is within Start Value ± Tolerance. Meter is Anlr.Level A.

中文标注:

- 设为 Crosstalk
- 测试 A通道, 须播放只有B通道有信号的测试扫频信号
- 设为 Anlr.Freq B
- 测试启动信号

2.B 通道串音测试



七. 平衡度测量

手机播放 1K Hz 标准正弦信号，调节音量到指定输出，并正确连接输入端，读取测试值

