



Ken Eckert <eckertkp@gmail.com>

Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

19 messages

Robin Szemeti <robin@redpoint.org.uk>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 5:26 PM

Although it is not HP, you could also look at the Neutrik A2, I have 2 of these and I find them excellent for audio work. The other analyser series to look for is the Audio Precision stuff ... the newer stuff is too expensive, but the older stuff such as their System One can be found, and if you can get it with a suitable PC or laptop with the PCMCIA card interface, it is very useful.

On Fri, 13 Aug 2021 at 00:47, Reginald Beardsley via groups.io <pulaskite@yahoo.com@groups.io> wrote:

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Have Fun!
Reg

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Dave McGuire <mcguire@neurotica.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 5:27 PM

On 8/12/21 7:47 PM, Reginald Beardsley via groups.io wrote:

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That's cheap for a 339A.

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That's a wonderful article, one of my favorites as well.

-Dave

--
Dave McGuire, AK4HZ
New Kensington, PA

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Group Owner: HP-Agilent-Keysight-equipment+owner@groups.io
Unsubscribe: [https://groups.io/g/HP-Agilent-Keysight-equipment/leave/4199179/1866426/868183933/xyzzzy\[eckertkp@gmail.com\]](https://groups.io/g/HP-Agilent-Keysight-equipment/leave/4199179/1866426/868183933/xyzzzy[eckertkp@gmail.com])

Dave Daniel <kc0wjn@gmail.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 6:30 PM

Agreed. While after Jim Williams passed away I downloaded all of the LT app notes and built a PDF of them.

AN-47 still stands out as perhaps the best app note ever written.

Bob Pease was also a master writer about analog design, but I haven't been able to find and organize his app notes and columns into a coherent whole.

Some day.

DaveD

> On Aug 12, 2021, at 20:28, Dave McGuire <mcguire@neurotica.com> wrote:

>

> On 8/12/21 7:47 PM, Reginald Beardsley via groups.io wrote:

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> New Kensington, PA

>

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Dave McGuire <mcguire@neurotica.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 7:18 PM

On 8/12/21 9:30 PM, Dave Daniel wrote:
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You should check this out:

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Dave McGuire, AK4HZ
New Kensington, PA

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[Quoted text hidden]

Jim Ford <james.ford@cox.net>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 7:54 PM

ISTR that Audio Precision is located in Beaverton and was either founded by ex-Tektronix person(s) or spun out of Tek. Good questions for Wikipedia, I guess. Unless somebody here has the scoop. Jim Ford

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Robin Szemeti <robin@redpoint.org.uk>
Date: 8/12/21 5:26 PM (GMT-08:00)
To: HP-Agilent-Keysight-equipment@groups.io
Subject: Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

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Have Fun!
Reg

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Jim Ford <james.ford@cox.net>

Thu, Aug 12, 2021 at 7:59 PM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

A couple of my heroes, Williams and Pease were, along with Barrie Gilbert. I was fortunate enough to have met Pease and Gilbert but wish I could have met Jim Williams. All very practical engineers, Pease being the only one who had earned a degree, something I can relate to. Gilbert did have an honorary PhD, though. Darn shame that they are gone..... Jim Ford

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Dave McGuire <m McGuire@neurotica.com>

Date: 8/12/21 7:18 PM (GMT-08:00)

To: HP-Agilent-Keysight-equipment@groups.io

Subject: Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

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New Kensington, PA

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Mark Goldberg <marklgoldberg@gmail.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 8:23 PM

On Thu, Aug 12, 2021 at 7:54 PM Jim Ford <james.ford@cox.net> wrote:

ISTR that Audio Precision is located in Beaverton and was either founded by ex-Tektronix person(s) or spun out of Tek. Good questions for Wikipedia, I guess. Unless somebody here has the scoop. Jim Ford

The Audio Measurement Handbook from Audio Precision (excellent) states that a group of engineers that developed the TM500 instruments at Tektronix went on to found Audio Precision. Some are also no longer with us. Those of us in the Audio design field hold them in similar high regard as Williams, Pease and Gilbert.

Regards,

Mark

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hardyhansendk via groups.io <hardyhansen@mail.tele.dk@groups.io>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 9:15 PM

Thats right

The same goes for Sound Technology--ex HP people.

They made also a very impressive soundcard based sound measurement software-spectralab,now spectraplus from pioneer Hill.

If you need more info mail me.

Hardy

Fra: HP-Agilent-Keysight-equipment@groups.io [mailto:HP-Agilent-Keysight-equipment@groups.io] **På vegne af** Mark Goldberg

Sendt: 13. august 2021 05:23

Til: HP-Agilent-Keysight-equipment@groups.io

Emne: Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

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Anders <anders.gustafsson@pedago.fi>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Thu, Aug 12, 2021 at 11:43 PM

It all depends om what you want. le a more classic, manual 3xx or the computerised 8903? I have the latter.

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Harke Smits via groups.io <yrrah=freedom.nl@groups.io>

Fri, Aug 13, 2021 at 12:22 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

If you want a compact, cheap solution: consider a good sound card sampling at 192 kHz without LF filter below 100 kHz (or a filter that can be bypassed) and the free sw Audiometer, by Thom Baier, DG8SAQ. Audiometer provides a scope and FFT analyzer with a wealth of other features. I use this to measure phase noise spectra of oscillators up to 100 kHz (with suitable hw of course). Add a Wenzel If amplifier and you can easily measure/demonstrate the Niquist noise spectrum of resistors.

Have fun too,

Harke

On 13/08/2021 01:47, Reginald Beardsley via [groups.io](#) wrote:

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Reg

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greenboxmaven via groups.io <ka2ivy=verizon.net@groups.io>

Fri, Aug 13, 2021 at 4:53 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

In this area, Sound Technology test gear was very popular in sound equipment shops. I quickly noticed it's styling resemblance to Hewlett Packard, now I know there was a

connection. The 200 series audio generator was also very popular, but the HP distortion analyzers weren't that common.

Bruce Gentry, KA2IVY

On 8/13/21 0:15, hardyhansendk via [groups.io](#) wrote:

Thats right

The same goes for Sound Technology--ex HP people.

They made also a very impressive soundcard based sound measurement software-spectralab,now spectraplus from pioneer Hill.

If you need more info mail me.

Hardy

Fra: HP-Agilent-Keysight-equipment@groups.io [mailto:HP-Agilent-Keysight-equipment@groups.io] **På vegne af** Mark Goldberg
Sendt: 13. august 2021 05:23
Til: HP-Agilent-Keysight-equipment@groups.io
Emne: Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

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Regards,

Mark



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Precaud <jbau@centurylink.net>

Fri, Aug 13, 2021 at 5:51 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

With some tweaks (a few opamp, capacitor, and trimmer upgrades) and careful cal (all outlined in detail on Diyaudio.com), the 339A is good for -100dB THD+N up to 10kHz for 1VRMS and up. Within its limits, it is hard to beat for ease of use and versatility.

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walter shawlee <walter2@sphere.bc.ca>

Fri, Aug 13, 2021 at 6:44 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

I have used most audio analyzers all the way from the hp 334A to amber, audio precision and the SRS SR-1. For ease of use, and utility, I found my Tek AA501A and an SG505 to be the best value, and would really recommend it. The tunable nature of the hp units like the 334A and 339A make them quite awkward to use for many simple tests, so I think the autotuning AA501A really stands out for over-all usefulness and value. I loved my AP Portable One, but it has been out of production a long time, so that is very unfortunate.

You may also want to look at a some pc sound card based software like Daqarta, it is incredibly powerful, and for audio guys, literally does everything. you can grab a free demo copy here: <https://www.daqarta.com/index.htm>

all the best,
walter (walter2 -at- sphere.bc.ca)
sphere research corp.

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Anil Nediya <Anilnediyara@gmail.com>

Fri, Aug 13, 2021 at 6:57 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

I make use of my R&S CMU 200 fast easy to use distortion analyser and signal source. Once you get the hang of it they are one of the cheapest multifunction test gear for both RF and AF work.

When you need higher accuracy and plots I go to my faithful HP35660A and to show off the 344A 😊

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CORNACCHIA via groups.io <corcsal@yahoo.ca@groups.io>

Fri, Aug 13, 2021 at 7:02 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: "HP-Agilent-Keysight-equipment@groups.io" <HP-Agilent-Keysight-equipment@groups.io>

HP 333A and 334A Are a good choese.

Sal C.C.

On Thursday, August 12, 2021, 07:47:56 p.m. EDT, Reginald Beardsley via [groups.io](#) <pulaskite@yahoo.com@groups.io> wrote:

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Chuck Harris <cfharris@erols.com>

Fri, Aug 13, 2021 at 7:24 AM

Reply-To: HP-Agilent-Keysight-equipment@groups.io

To: HP-Agilent-Keysight-equipment@groups.io

I concur with Walter on the AA501A/SG505 combination. I have been using them for about 20 years, and they are as easy to use as a DVM. Connect the leads, and you have a measurement.

They are easy to calibrate, and easy to fix, once you understand that you must have extender cables, and take them apart.

Dan Meeks' extender cables work very nicely for servicing TM500 stuff.

-Chuck Harris

On Fri, 13 Aug 2021 06:44:03 -0700 "walter shawlee"

<walter2@sphere.bc.ca> wrote:

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> all the best,

> walter (walter2 -at- [sphere.bc.ca](mailto:walter2@sphere.bc.ca))

> sphere research corp.

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Raymond Domp Frank <hewpatek@gmail.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Fri, Aug 13, 2021 at 7:42 AM

On Fri, Aug 13, 2021 at 04:24 PM, Chuck Harris wrote:

I concur with Walter on the AA501A/SG505 combination.

Agree fully. A while ago, a further improvement of the SG505's distortion was discussed on this forum, ISTR.
Be aware that only AA501 Option 01 (or Option 02) units allow the measurement of IM distortion.

A suitable spectrum analyzer with tracking generator is another option, though usually more costly.

Raymond

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Dave Daniel <kc0wjn@gmail.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Fri, Aug 13, 2021 at 7:52 AM

Used AA501As have always been expensive. While I've always wanted one, I was never able to afford one. I just looked on ebay; there are several there for \$1200-\$1400. That's more than I paid for my (working) HP 8566B spec an.

DaveD

On Aug 13, 2021, at 10:42, Raymond Domp Frank <hewpatek@gmail.com> wrote:

On Fri, Aug 13, 2021 at 04:24 PM, Chuck Harris wrote:

I concur with Walter on the AA501A/SG505 combination.

Agree fully. A while ago, a further improvement of the SG505's distortion was discussed on this forum, ISTR.

Be aware that only AA501 Option 01 (or Option 02) units allow the measurement of IM distortion.

A suitable spectrum analyzer with tracking generator is another option, though usually more costly.

Raymond

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Radu Bogdan Dicher <vondicher@gmail.com>
Reply-To: HP-Agilent-Keysight-equipment@groups.io
To: HP-Agilent-Keysight-equipment@groups.io

Fri, Aug 13, 2021 at 8:10 AM

I've had the HP334A and HP8903B, and while both are excellent units for what they do, the AP System One (of which I currently have two) is in a completely different league.

The capabilities to measure and plot data are, in my experience, unequalled in the audio measurements world. The used market is an obvious source for these units, though if one wants a verified and fully working unit (including S1s), there's a guy in Southern California that sells them (or services one's own unit), including USB dongles he designed that work with Windows 10 (never available from AP directly). I highly recommend him and I can provide additional information to anyone interested (though I have no affiliation whatsoever).

The AP Audio Measurements book (free PDF on their website) is the reference for anyone getting into this.
Radu.

On Fri, Aug 13, 2021 at 7:52 AM Dave Daniel <kc0wjn@gmail.com> wrote:

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8/13/2021

Gmail - Re: [HP-Agilent-Keysight-equipment] Audio distortion analyzer advice

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Raymond

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