



Information Classification:

NOT CLASSIFIED

RE: PA Compression Test Beta 1.5.3

Jerome Sirois

to:

Nick.Lalic@rsa.rohde-schwarz.com

01/05/2016 02:08 PM

Cc:

"Greg.Bonaguide@rsa.rohde-schwarz.com", Korne Vennema, Michael Guyonnet, "Mike.Leffel@rsa.rohde-schwarz.com",

"Wayde.Marshall@rsa.rohde-schwarz.com"

Hide Details

From: Jerome Sirois <jerome.sirois@macom.com> Sort List...

To: "Nick.Lalic@rsa.rohde-schwarz.com" <Nick.Lalic@rsa.rohde-schwarz.com>,

Cc: "Greg.Bonaguide@rsa.rohde-schwarz.com" <Greg.Bonaguide@rsa.rohde-schwarz.com>, Korne Vennema

<korne.vennema@macom.com>, Michael Guyonnet <michael.guyonnet@macom.com>, "Mike.Leffel@rsa.rohde-schwarz.com"

<Mike.Leffel@rsa.rohde-schwarz.com>, "Wayde.Marshall@rsa.rohde-schwarz.com" <Wayde.Marshall@rsa.rohde-schwarz.com>

History: This message has been replied to.

Hello Nick,

Yes, I had a happy holiday, thanks. It was good to rest for a while.

Regarding the file export :

- Using real commas in the file instead of space is more convenient. I allows to open the file in excel using a double click instead of reformatting data. So it would be nice to have commas.
- Could we merge all three files (Settings, Fsweep and Psweep) together? From there, we will work our way through the data. Just provide one header line between sections to specify we've changed section in the file. In the end, I am mostly interested in the content of these files and not so much in the bundle of S2P files.
- Could we add pulse definition in the settings.
- Just to confirm, S12 and S22 are meaningless in one path two ports mode?
- What is the exact definition of Pin?
 - o Is it source power or power delivered to the DUT?
 - o So are we measuring Transducer Gain or Power Gain?
- Can we also add the Phase of Pout in a column next to Pout?

If you feel confused about all my comments and remarks, we can have a phone call tomorrow to discuss these points in details.

Thanks,

Jerome

From: Nick.Lalic@rsa.rohde-schwarz.com [<mailto:Nick.Lalic@rsa.rohde-schwarz.com>]**Sent:** Monday, January 04, 2016 4:58 PM**To:** Jerome Sirois**Cc:** Greg.Bonaguide@rsa.rohde-schwarz.com; Korne Vennema; Michael Guyonnet; Mike.Leffel@rsa.rohde-schwarz.com; Wayde.Marshall@rsa-rohde-schwarz.com**Subject:** RE: PA Compression Test Beta 1.5.3

Jerome,

Hope you had a happy holiday and got some well-needed rest. Back to work :-)

Yes, I have your comments. I also look forward to the result of your validation of the GCA-like CSV file.

The big difference in my version of the CSV file is that I am using space-delimiters rather than commas (and space). To be honest, this was easier for me to implement in C++\Qt with the existing libraries, but of course I can add the commas if necessary.

After I work through your feedback I will provide comments and another version. More to come, soon.

Best Regards,

Nick Lalic

Nick Lalic

VNA Software Developer

Mobile: +1 424-200-2846

E-Mail: Nick.Lalic@rsa.rohde-schwarz.comWebsite: <http://www.rohde-schwarz.com/>[R&S@ZNB and R&S@ZNC: General Purpose Network Analyzers](#)



From: Jerome Sirois <jerome.sirois@macom.com>
 To: "Wayde.Marshall@rsa.rohde-schwarz.com" <Wayde.Marshall@rsa.rohde-schwarz.com>,
 Cc: "Greg.Bonaquide@rsa.rohde-schwarz.com" <Greg.Bonaquide@rsa.rohde-schwarz.com>, Korne Vennema <korne.vennema@macom.com>, Michael Guyonnet <michael.guyonnet@macom.com>,
 "Mike.Leffel@rsa.rohde-schwarz.com" <Mike.Leffel@rsa.rohde-schwarz.com>, "Nick.Lalic@rsa.rohde-schwarz.com" <Nick.Lalic@rsa.rohde-schwarz.com>
 Date: 01/04/2016 11:52 AM
 Subject: RE: PA Compression Test Beta 1.5.3

Hello Wayde,

Most of our comments were sent in a PDF file on 12/23/2015. They relate to version 1.5.3, but version 1.5.4 only improvement is the data export tool. Nick probably has enough feedbacks to work with at this time, and I will follow up with comments on the data export tool shortly.

Regards,

Jerome

From: Wayde.Marshall@rsa.rohde-schwarz.com [<mailto:Wayde.Marshall@rsa.rohde-schwarz.com>]
Sent: Monday, January 04, 2016 2:36 PM
To: Jerome Sirois
Cc: Greg.Bonaquide@rsa.rohde-schwarz.com; Korne Vennema; Michael Guyonnet; Mike.Leffel@rsa.rohde-schwarz.com; Nick.Lalic@rsa.rohde-schwarz.com
Subject: RE: PA Compression Test Beta 1.5.3

Hi Jerome,

I believe Nick was waiting for your review and input on his latest version he sent a few weeks back (I believe its version 1.5.4 you referred to). I know you guys have been out of the office over the holiday period. Once you compile your teams comments, get them back to Nick and we can tweak the program further.

Nick can chime in if I've missed anything but I believe that is where we stand.

Wayde Marshall
 Account Manager
 Rohde & Schwarz USA, Inc.

Mobile: +1 508-789-6869
 E-Mail: Wayde.Marshall@rsa.rohde-schwarz.com
 Website: <http://www.rohde-schwarz.com/>

From: Jerome Sirois <jerome.sirois@macom.com>
 To: "Nick.Lalic@rsa.rohde-schwarz.com" <Nick.Lalic@rsa.rohde-schwarz.com>,
 Cc: Michael Guyonnet <michael.guyonnet@macom.com>, "Wayde.Marshall@rsa.rohde-schwarz.com" <Wayde.Marshall@rsa.rohde-schwarz.com>, "Greg.Bonaquide@rsa.rohde-schwarz.com" <Greg.Bonaquide@rsa.rohde-schwarz.com>,
 "Mike.Leffel@rsa.rohde-schwarz.com" <Mike.Leffel@rsa.rohde-schwarz.com>, Korne Vennema <korne.vennema@macom.com>
 Date: 01/04/2016 02:18 PM
 Subject: RE: PA Compression Test Beta 1.5.3

Hello Nick,

Happy new year! So how is the software coming along?

On my end, I just tested version 1.5.4 earlier today, and I passed along the output file formats to some colleagues. I'll compile the comments and pass them over to you when we get them.

Let us know about your progress.

Thanks,

Jerome

From: Nick.Lalic@rsa.rohde-schwarz.com [<mailto:Nick.Lalic@rsa.rohde-schwarz.com>]
Sent: Wednesday, December 23, 2015 5:11 PM
To: Jerome Sirois
Cc: Michael Guyonnet; Wayde.Marshall@rsa.rohde-schwarz.com; Greg.Bonaguide@rsa.rohde-schwarz.com; Mike.Leffel@rsa.rohde-schwarz.com; Korne Vennema
Subject: Re: PA Compression Test Beta 1.5.3

I got it this time. Thanks for the feedback Jerome!

- Nick

Sent from my iPhone

On Dec 23, 2015, at 12:17 PM, Jerome Sirois <jerome.sirois@macom.com> wrote:
Hello Nick,

Please find attached a copy in PDF this time. Let me know if this works.

If not, we will find another solution.

Regards,

Jerome

From: Nick.Lalic@rsa.rohde-schwarz.com [<mailto:Nick.Lalic@rsa.rohde-schwarz.com>]
Sent: Wednesday, December 23, 2015 2:09 PM
To: Jerome Sirois
Cc: Michael Guyonnet; Wayde.Marshall@rsa.rohde-schwarz.com; Greg.Bonaguide@rsa.rohde-schwarz.com; Mike.Leffel@rsa.rohde-schwarz.com; Korne Vennema
Subject: Re: PA Compression Test Beta 1.5.3 <R&S Watchdog Security Check: denied Attachment violation detected in a Mail sent to you>

... I think a PDF version of the ppt would also work.

- Nick

Sent from my iPhone

On Dec 23, 2015, at 8:43 AM, Jerome Sirois <jerome.sirois@macom.com> wrote:

R&S Watchdog Security Check has detected a denied attachment

in the following e-mail sent to you:

Subject: RE: PA Compression Test Beta 1.5.3
From: Jerome Sirois <jerome.sirois@macom.com>
Date: 12/23/2015 04:42:40 PM GMT
Jobname: RS - Denied Specific Attachments incoming **Server:** RSA12/RSA (for support purposes only)

Our Mail-Policy does not allow to send/receive executable attachments.
You still got the mail but without the executable attachments.

Please inform the author of the mail about the restriction and about the recommended alternative Secure File Transfer.
(see http://intranet.rsint.net/live/rs/intranet/rsdisplay.id.450.nodeid.450._language.en.html for further details)

Thank you.

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Fr: 7:00h - 17:00h		
IT-ServiceDesk@rohde-schwarz.com	IT-ServiceDesk.AP@rohde-schwarz.com	IT-ServiceDesk@rohde-schwarz.com
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Hello Nick,

So I tested version 1.5.3 of the software yesterday. Sorry I couldn't test the latest one, and I will be out of office until January 4th after that, so unable to run more tests.

Overall feelings are very positive, still a few bugs here and there that I highlighted in the attached document. Overall, the top priorities still are :

- File export (which I believe is already taken care of)
- Pulse CW measurement
- Speed
- Compact GUI

Bug fixing can come later as none of them really are preventing us from using the application.

Let me know if you have questions. I will still be available today, but then I will disappear for a week.

Regards,

Jerome

From: Nick.Lalic@rsa.rohde-schwarz.com [<mailto:Nick.Lalic@rsa.rohde-schwarz.com>]

Sent: Monday, December 21, 2015 2:51 PM

To: Jerome Sirois

Cc: Michael Guyonnet; Wayde.Marshall@rsa.rohde-schwarz.com; Greg.Bonaguide@rsa.rohde-schwarz.com; Mike.Leffel@rsa.rohde-schwarz.com

Subject: Re: PA Compression Test Beta 1.5.3

Hey Jerome,

You can run it without a power cal, just keep in mind that the Pin, Pout values may be off, particularly if you add any attenuation to the setup.

- Nick

Sent from my iPhone

On Dec 21, 2015, at 7:35 AM, Jerome Sirois <jerome.sirois@macom.com> wrote:

Hello Nick,

So if I read you well, I absolutely need a Power cal to run the application. I just realized all my power meters are gone to the other lab.

Let me know if it is the case, as I will try to move quick to the other site tomorrow in order to run the test.

Thanks,

Jerome

From: Nick.Lalic@rsa.rohde-schwarz.com [<mailto:Nick.Lalic@rsa.rohde-schwarz.com>]

Sent: Monday, December 21, 2015 8:56 AM

To: Jerome Sirois

Cc: Michael Guyonnet; Wayde.Marshall@rsa.rohde-schwarz.com; Greg.Bonaguide@rsa.rohde-schwarz.com; Mike.Leffel@rsa.rohde-schwarz.com

Subject: PA Compression Test Beta 1.5.3

Jerome,

As we discussed last week, here is another interim version of the PA Compression Test software.

It includes the following:

- **Thorough testing of the plots feature(s)**
- **Plots vs Measured Pin (reinterpolated, as we discussed)**
- **Plots vs Pout (reinterpolated)**

Because the application now uses the measured Pin value, a power cal of the port 1 source and the port 1 reference receiver (what AGC calls "R1") is required. Any attenuation or loss due to couplers must be embedded into this power cal. If you have any questions about how to perform this I can walk you through it over the phone.

At this point, you should be able to compare results from this application (at least on-screen) to Agilent GCA.

Here is a link to download the installer. Copy it onto the instrument and run to install. It should be straightforward. There is no need to uninstall the previous

version; it will upgrade automatically. If a permissions screen pops up and asks you for a password, and you haven't set one yourself, it is probably the factory default ("894129").

<https://cloud.rs-us.net/public.php?service=files&t=4e256918725334cff1e04eaf39298a2a>

I still have the following software development tasks to complete:

- Export GCA-compatible CSV File
- Create less repetitive, compact version of the GUI for quick tests
- Improve speed:
 - * Upgrade the instrument connection from VXI-11 to High-Speed LAN Instrument Protocol (HiSLIP)
 - * Compress SCPI commands into as few writes as possible

Additionally, I am still working on setting up pulsed RF tests.

In the next couple days, I will send you another update with the following:

- Export GCA-Compatible CSV File
- Mockup of proposed "compact" GUI, for your approval

Best Regards,
Nick Lalic

	<p>Nick Lalic VNA Software Developer Mobile: +1 424-200-2846 E-Mail: Nick.Lalic@rsa.rohde-schwarz.com Website: http://www.rohde-schwarz.com/ R&S@ZNB and R&S@ZNC: General Purpose Network Analyzers</p>
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>>> ZVA-GCA_Evaluation.pptx: Attachments removed. <<<

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