



Re: S2P extractor app /cr/ 
Frederic Molina to: Mike Leffel, Nick Lalic

12/07/2015 09:01 AM

History: This message has been replied to.

Hello Mike and Nick,

I compared your 2 macros.

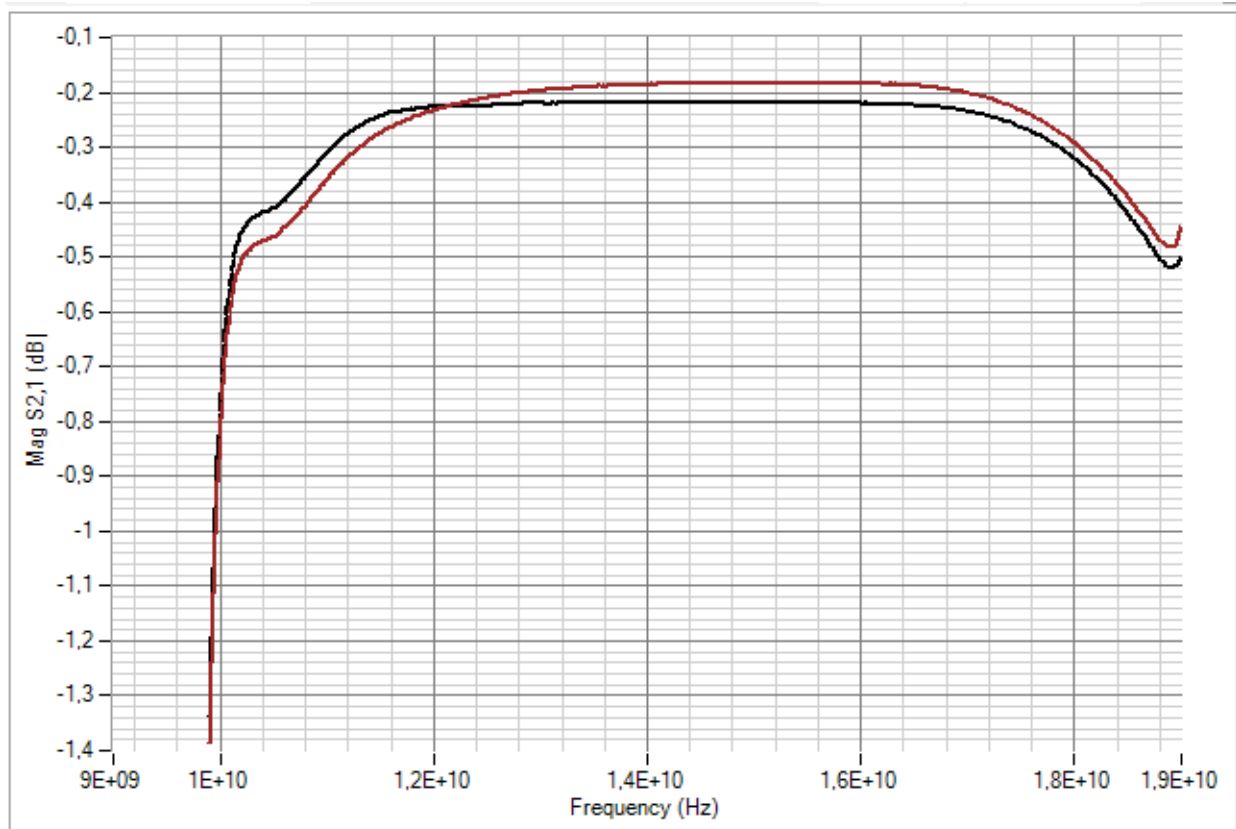
Black traces = Nick's macro (I performed 2 UOSM)

Brown traces = Mike's macro (at port 1 I performed 2 OSM outer and inner, then same for port 2).

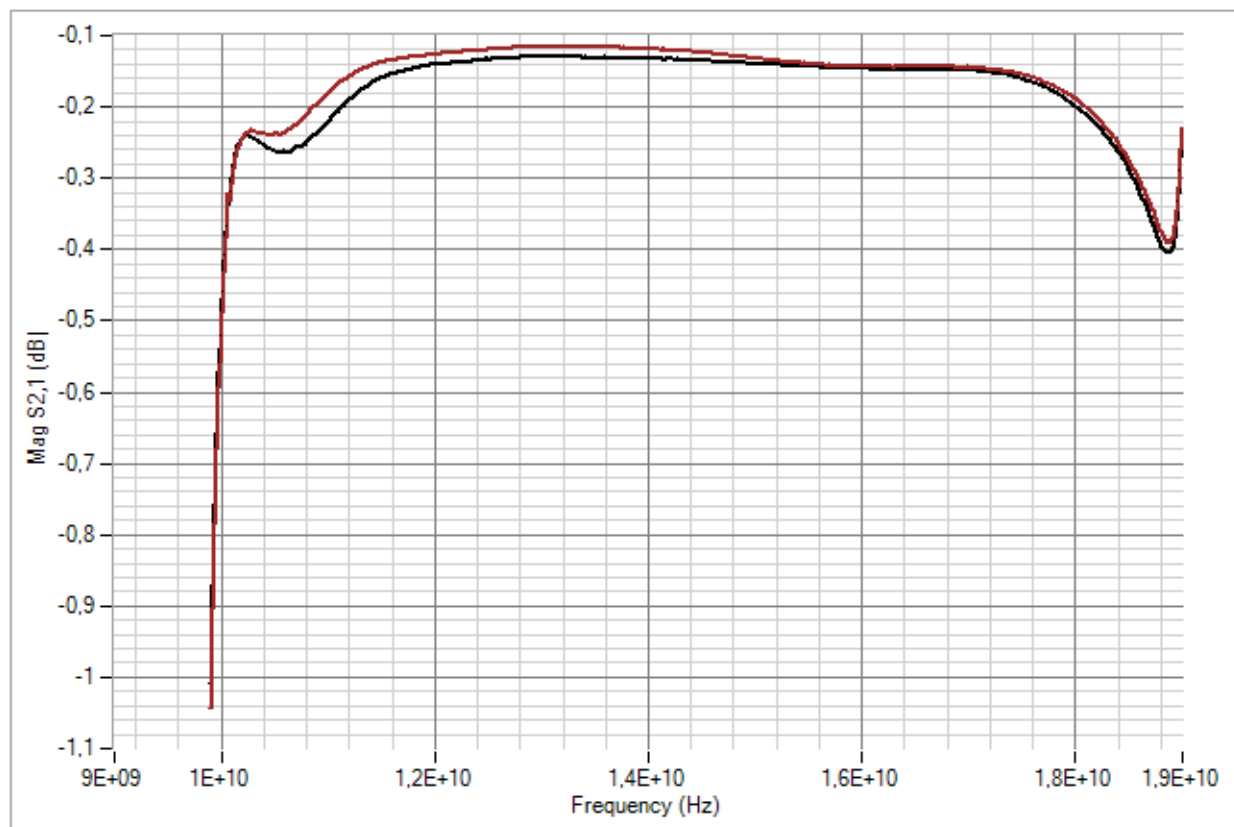
So I can compare the calculation at port 1 and port 2 :

In term of amplitude, the results are very similar :

P1 :

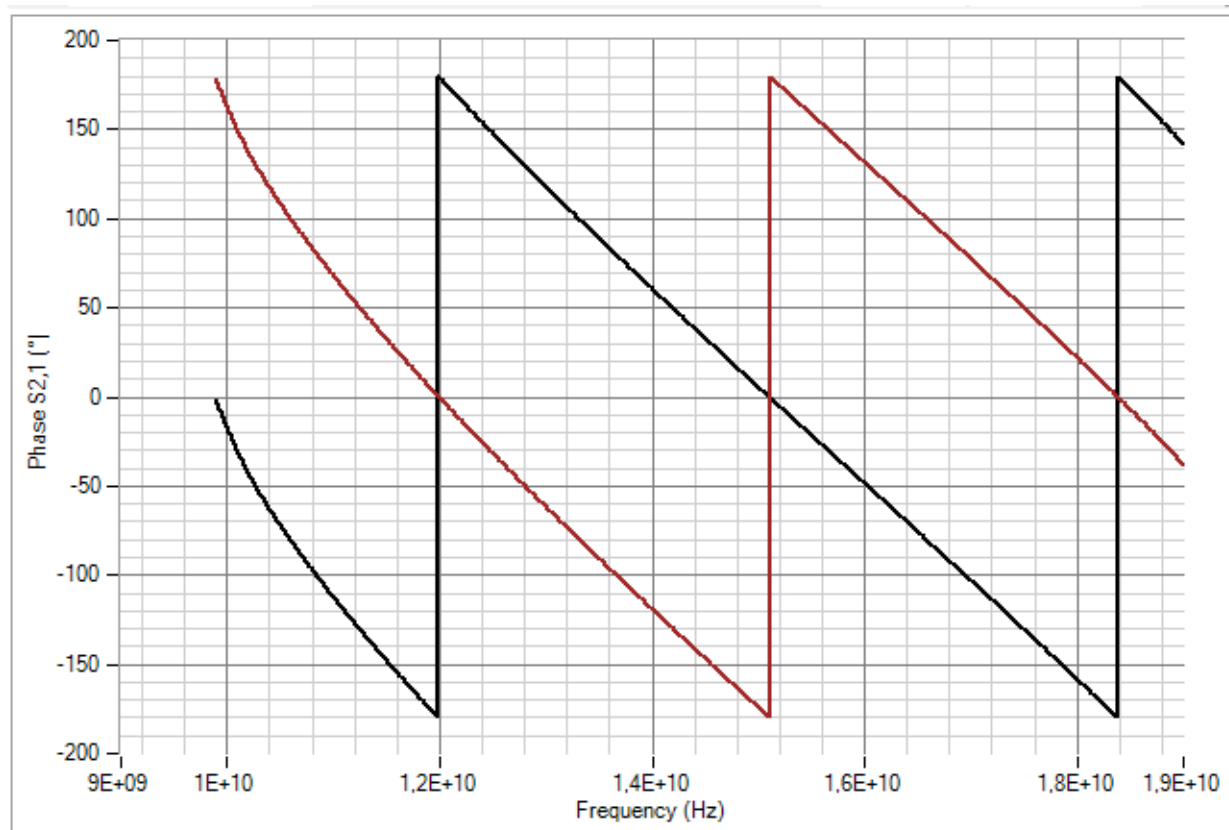


P2 :

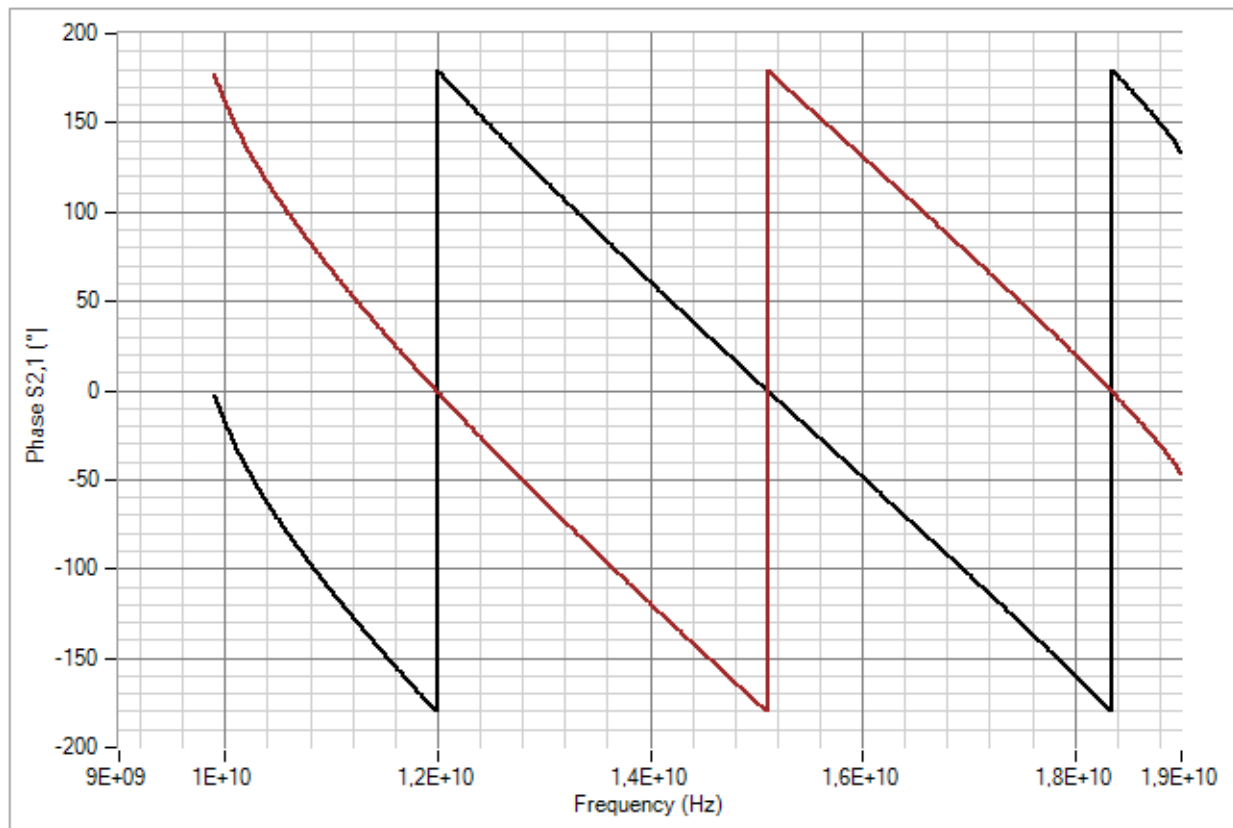


But in term of phase I have a shift of 180° :

P1 :



P2:



Here the cal files :

2 ports cal (for nick's macro) : outercal=usom.cal / innercal=guidUOSMOS12.cal



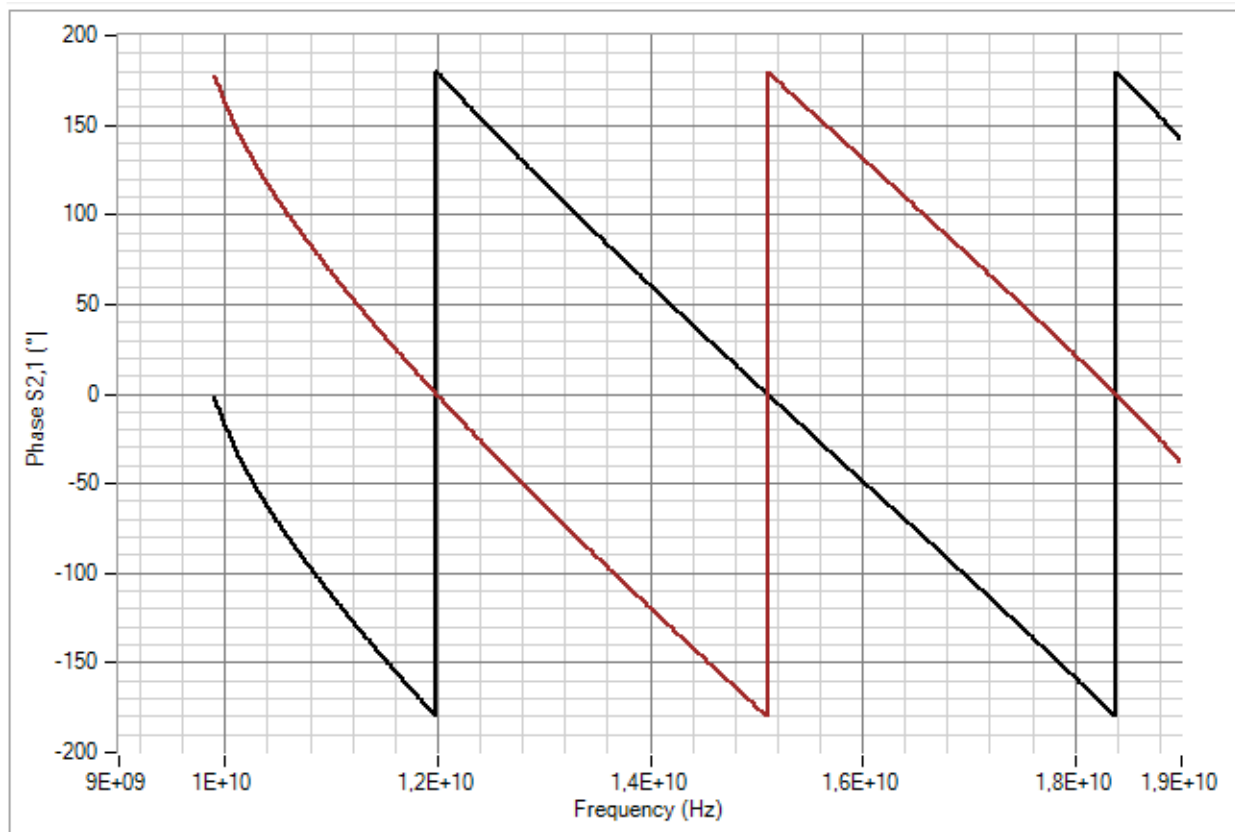
usom.cal guidUOSMOS12.cal

1 port cal (for mike's macro): P1 outercal =osmp1.cal / P1 innercal =wgfp1.cal and P2 outercal =osmp2.cal / P2 innercal =wg3p2.cal

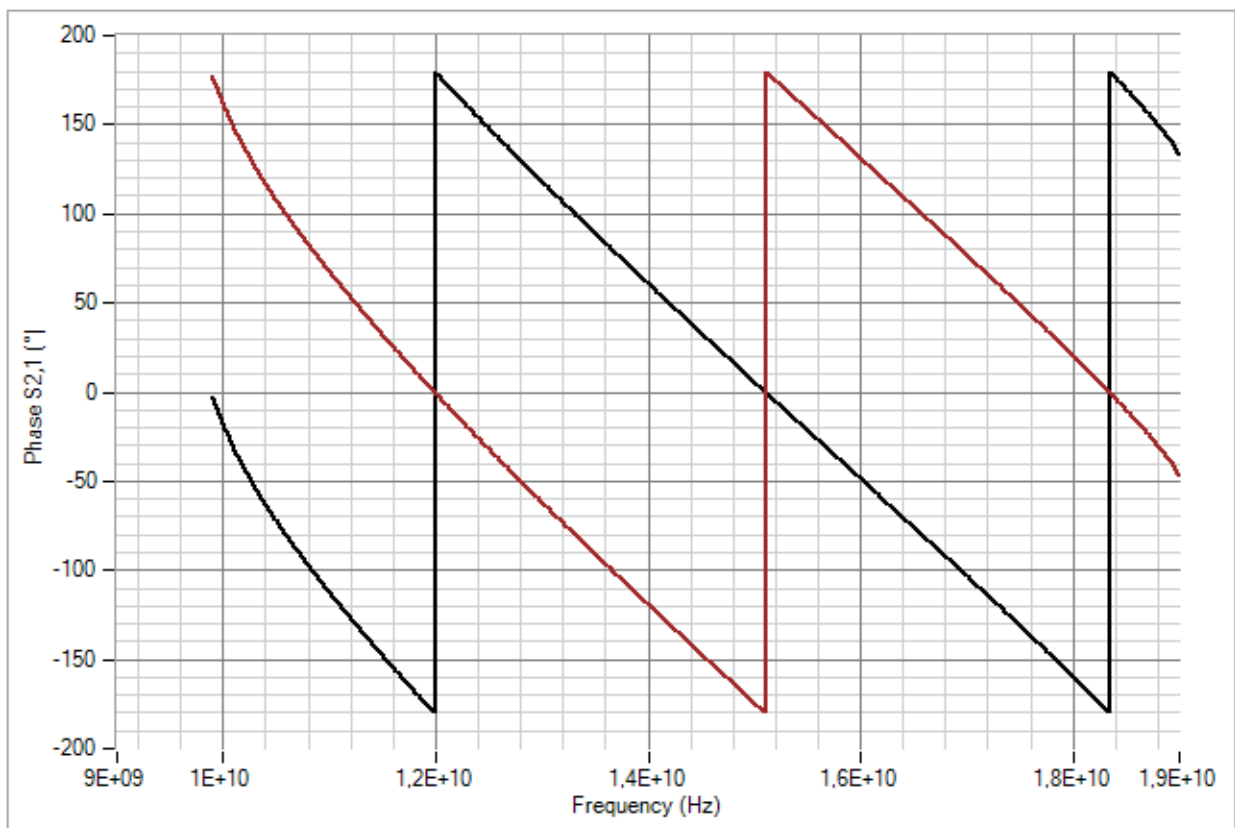


osmp1.cal osmp2.cal wgfp1.cal wg3p2.cal

Then I tried to use the same 2 ports UOSM calibration files for both macros, I have the same problem :
P1



P2 :



I don't know which macro gives the good result?

Best Regards,

Fred

Mike Leffel

Frederic Molina---12/03/2015 01:12:32 AM---Fro...

07/12/2015 12:42:18

From: Mike Leffel/RSA@RSA
To: Frederic Molina/RSF@rsf,
Date: 07/12/2015 12:42
Subject: Re: S2P extractor app /cr/

Resend

Sent from my iPhone

On Dec 4, 2015, at 2:46 PM, Mike Leffel <Mike.Leffel@rsa.rohde-schwarz.com> wrote:

Hi Frederic,

OK, here it is. (You can run this on your PC with the emulator, on your PC remoting to an instrument, or on the instrument directly)

You need to install this framework. (it is very large.)

<https://cloud.rs-us.net/public.php?service=files&t=6078da7af5872c081e59afc02de43375>

Then install this program.

<https://cloud.rs-us.net/public.php?service=files&t=3fcf6da587d3081b327e8de63ba001f9>

Let me know if it gives you any trouble.

In the long term my preference is that we use Nick's solution. But this approach can serve as a way to verify Nick's solution with an independent calculation. And it is a backup until Nick's solution is available.

Regards,

Mike

Mike Leffel

Senior VNA Hardware and Software Engineer
Aerospace & Defense Strategic Planning Team
ROHDE & SCHWARZ, Inc.
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EMAIL: mike.leffel@rsa.rohde-schwarz.com

Frederic Molina---2015-12-04 01:29:23 PM---From: Frederic Molina/RSF@RSF To: Mike Leffel/RSA@RSA@RUS,

From: Frederic Molina/RSF@RSF
To: Mike Leffel/RSA@RSA@RUS,
Cc: Mathieu Caillet/RSC@rsc, Nick Lalic/RSA@rsa
Date: 2015-12-04 01:29 PM
Subject: Re: S2P extractor app /cr/

Hi Mike,

Thank you for your proposition, Yes, I'm interesting to have a copy of your macro.

Best Regards,
Frederic

Mike Leffel---04/12/2015 14:14:31---Frederic Molina---12/03/2015 01:12:32
AM---From: Frederic Molina/RSF@RSF To: Nick Lalic/RSA@RSA@RUS, From:
Frederic Molina/RSF@

From: Mike Leffel/RSA@RSA
To: Frederic Molina/RSF@rsf,
Cc: Nick Lalic/RSA@rsa, Mathieu Caillet/RSC@rsc
Date: 04/12/2015 14:14
Subject: Re: S2P extractor app /cr/

Hi Frederic,

I have an alternative version of the program that I used as an independent solution to ensure the math was being done correctly. The drawback is that it requires the NI runtime engine, which is a large installer.

But it runs on the ZVA, and it works with one port calibrations.

You are welcome to this as an interim solution until Nick's version is updated.

Let me know if or when you want a copy.

Regards,

Mike

Sent from my iPad

On Dec 4, 2015, at 1:46 AM, Frederic Molina <Frederic.Molina@rohde-schwarz.com> wrote:

Hello Nick,

Thank you for your answer.

I would say end of January is OK. Of course, if you can do it before it's better :-)

Keep me informed if it's OK for you?

Best Regards,

Fred

Nick Lalic---03/12/2015 21:51:23---Frederic, That's good news. Congrats! I guess we will have to make a strong(er) commitment to it the

From: Nick Lalic/RSA@RSA

To: Frederic Molina/RSF@RSF@RUS,

Cc: Mike Leffel/RSA@RSA, Mathieu Caillet/RSC@RSC

Date: 03/12/2015 21:51

Subject: Re: S2P extractor app /cr/

Frederic,

That's good news. Congrats! I guess we will have to make a strong(er) commitment to it then :-)

What is the date that your customer requires S2P Extractor? If it is by the very beginning of next year (1st of January) it may be difficult for me. If it is into January (say 31st of January) then the request is quite reasonable.

Sorry that I have not had better insight into my schedule. The project that I am currently working on depends greatly on customer approval, and it has been difficult understanding exactly what they want. I expect to have a much better understanding of my short-term workload at the end of next week (11th of December).

Best Regards,



Nick Lalic

Nick Lalic

VNA Software Developer

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Website: <http://www.rohde-schwarz.com/>

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Frederic Molina---12/03/2015 01:12:32 AM---From:
Frederic Molina/RSF@RSF To: Nick
Lalic/RSA@RSA@RUS,

From: Frederic Molina/RSF@RSF
To: Nick Lalic/RSA@RSA@RUS,
Date: 12/03/2015 01:12 AM
Subject: Re: S2P extractor app /cr/

Hello Nick,

I want to inform you that we won the tender where the S2P
Extractor was requested to work with OSM (1 port)
calibrations.

Do you think that we could deliver something beginning of
next year?

Best Regards,
Fred

Nick Lalic---28/11/2015 06:07:19---From: Nick
Lalic/RSA@RSA To: Mathieu Caillet/RSC@rsc,

From: Nick Lalic/RSA@RSA
To: Mathieu Caillet/RSC@rsc,
Cc: Frederic Molina/RSF@rsf, Mike Leffel/RSA@rsa
Date: 28/11/2015 06:07
Subject: Re: S2P extractor app /cr/

Mathieu,

I have not yet implemented a version of S2P Extractor that will work with OSM (1 port) calibrations. Per Frederic's examples, he's proven that it will work, but I will have to modify my software to accommodate it. Unfortunately, I have been fairly busy lately. Busy enough that I haven't gotten a chance to do it yet.

I should get an answer on the status of one of my major projects soon. If that is satisfactory, I'll turn some of my attention to implementing this.

I'll update you as soon as I get new information.

- Nick

Sent from my iPhone

> On Nov 27, 2015, at 7:14 PM, Mathieu Caillet <
> Mathieu.Caillet@rohde-schwarz.com> wrote:

>

> Hi Nick,

>

> Is the latest version of the S2P extractor macro available on your web page? Ciena needs it for the case when 1 port only is used. Please let me know.

>

> Regards,

>

> Mathieu

>

>

>

> Sent from my mobile device

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