



**Rosenberger**

802.3ch channel measurement results

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7th of March 2018

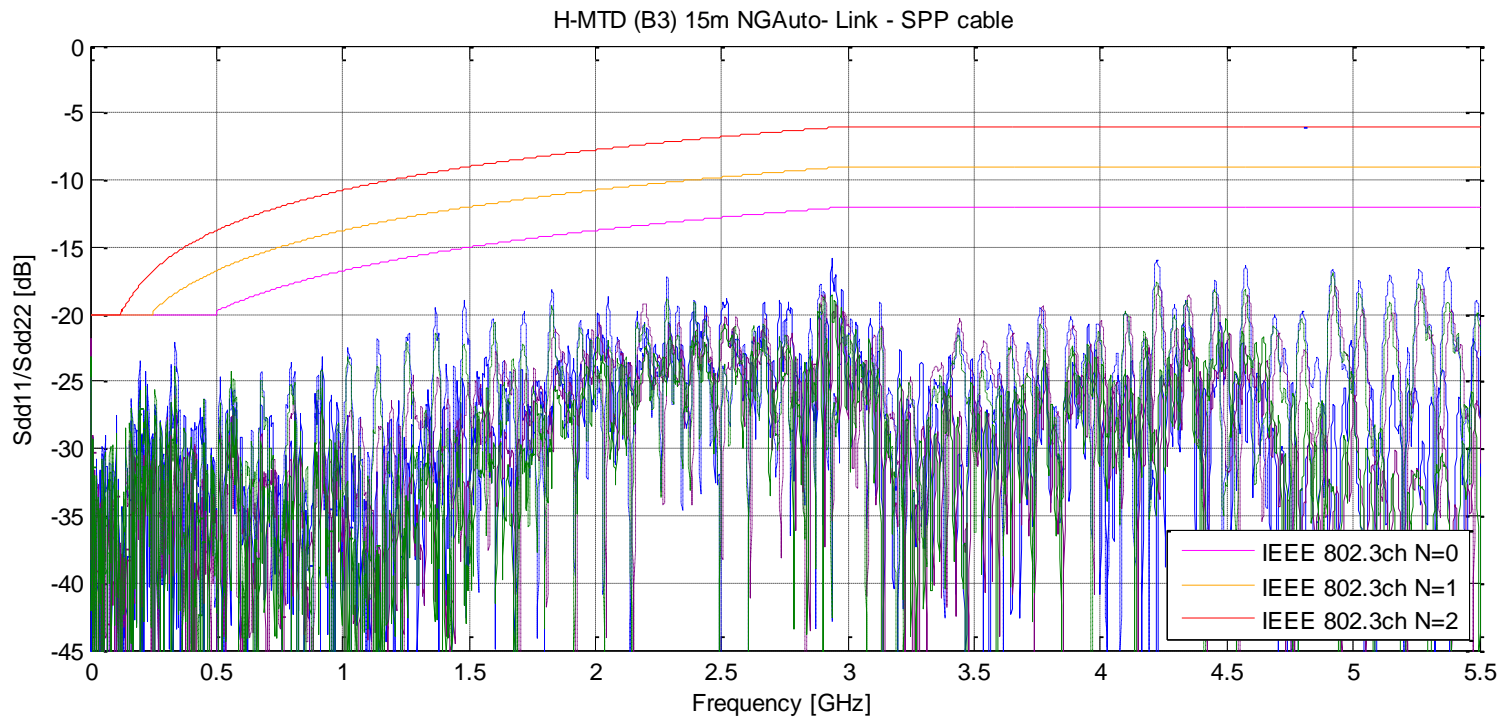


# 802.3ch channel performance

## Channel Return Loss



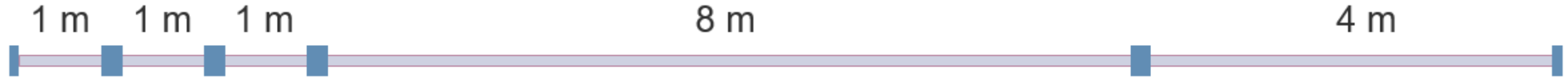
- H-MTD (B3 samples) reference channel SPP cable at different temperatures



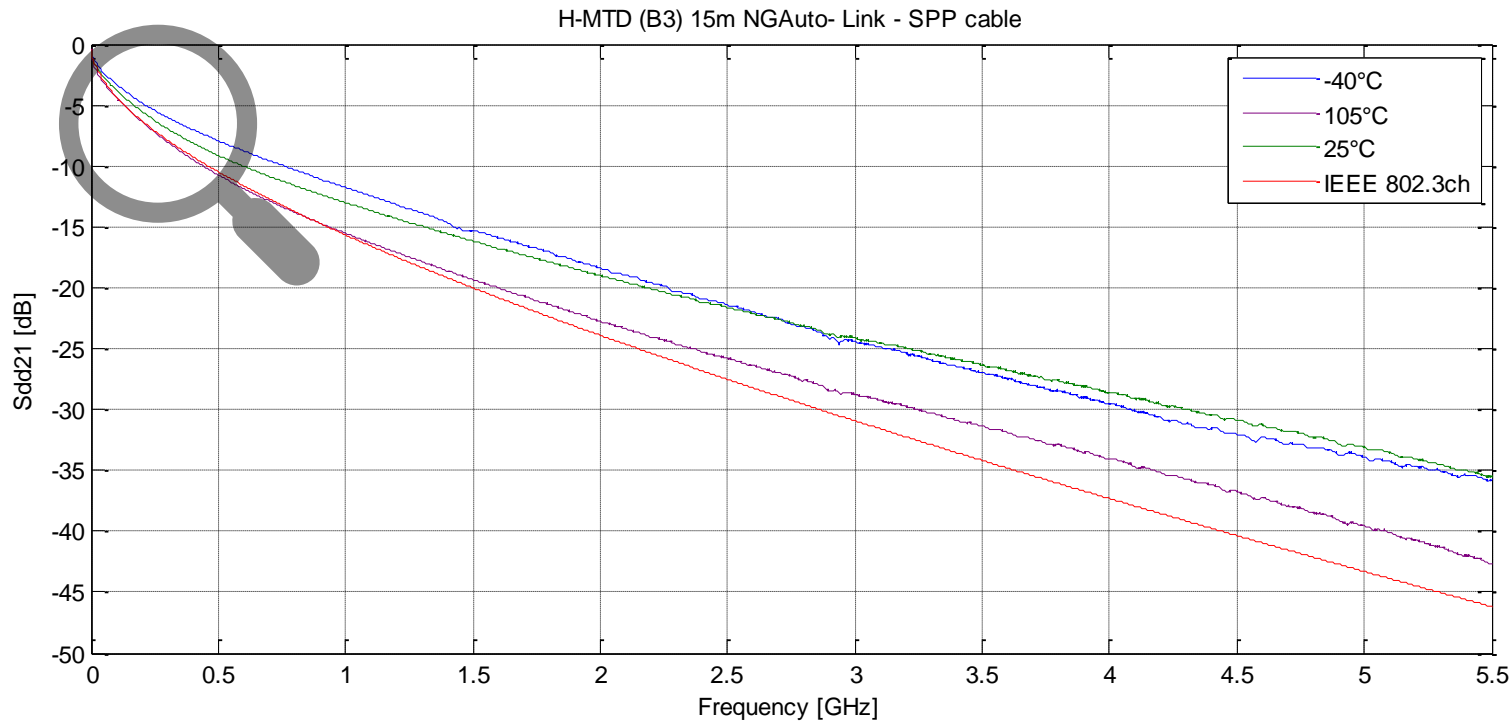
- Return loss baseline limit fulfilled with margin

# 802.3ch channel performance

## Channel Insertion Loss



- H-MTD (B3 samples) reference channel SPP cable at different temperatures



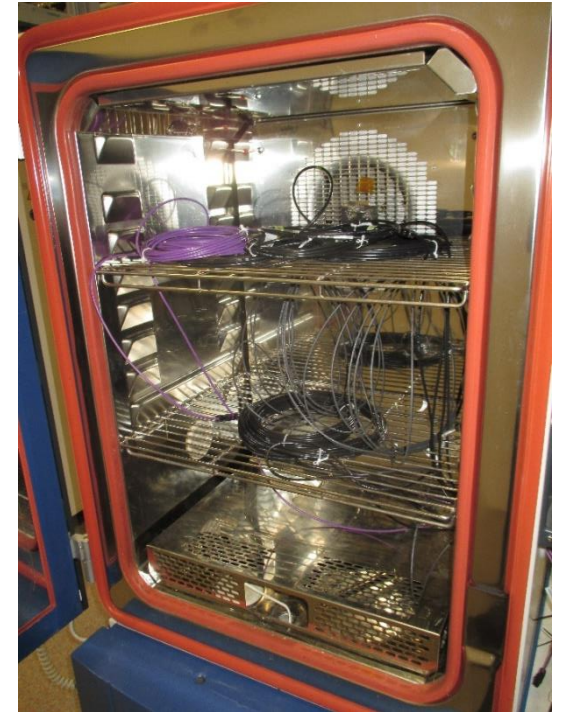
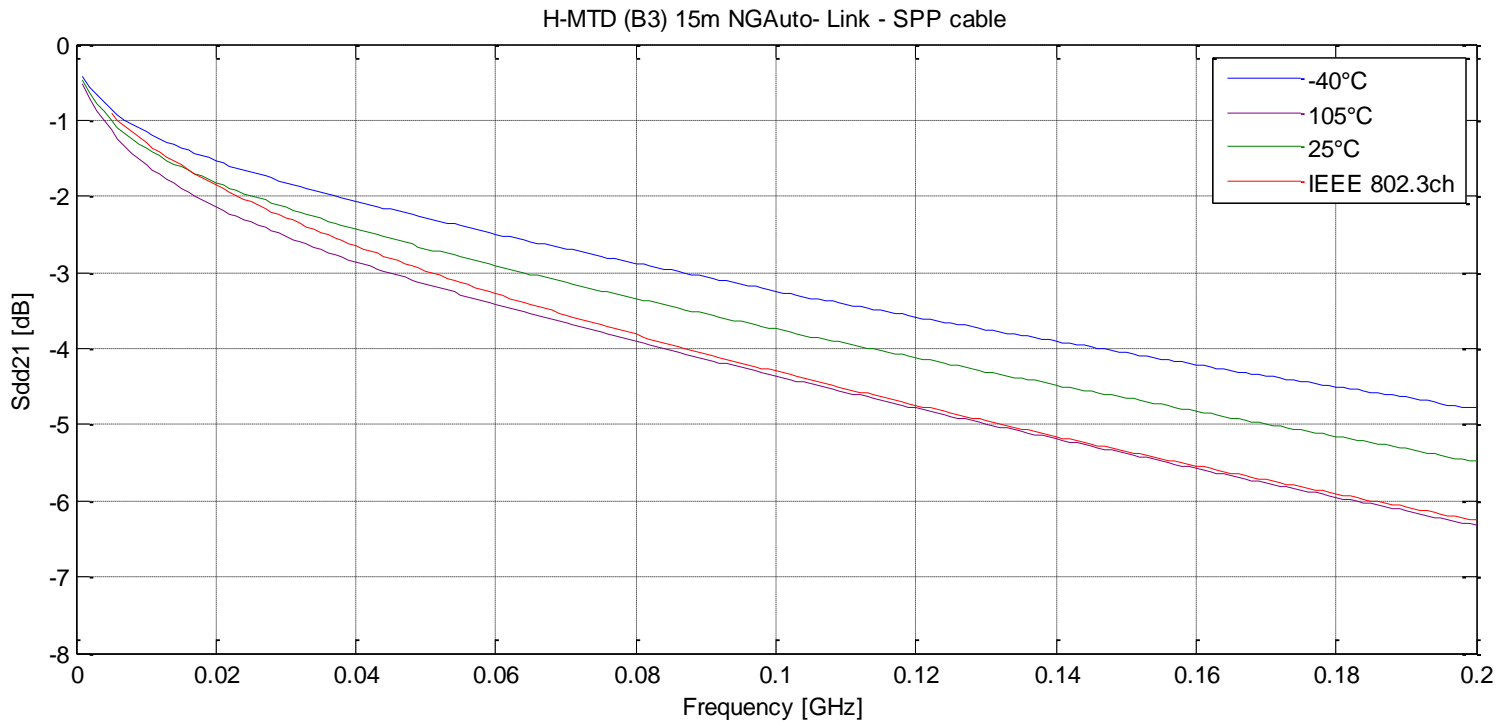
- Insertion loss baseline missed at very low frequencies at 105°C with AWG26

# 802.3ch channel performance

## Channel Insertion Loss



- H-MTD (B3 samples) reference channel SPP cable at different temperatures



- Insertion loss baseline missed at low frequencies at 105°C with AWG26

# 802.3ch channel performance

## Insertion Loss Basline Proposal

- Propose to adopt a changed channel insertion loss baseline as follows

$$\text{Insertion loss } (f) \leq 0.0030 f + 0.40\sqrt{f} + 0.5$$

where

$f$  is the frequency in MHz;  $5 \leq f \leq 5500$

instead of

$$\text{Insertion loss } (f) \leq 0.0030 f + 0.40\sqrt{f}$$

where

$f$  is the frequency in MHz;  $5 \leq f \leq 5500$

In order to enable the use of AWG26

