

Proposals for completing Tables 154-11 and 154-12 on test patterns

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Introduction

- Several comments on TBDs in test pattern tables have been submitted to the TF review of D1.2.
- This presentation contains a proposal to complete the relevant tables for test patterns and remove related TBDs.

Table 154-11

Currently in D1.2:

Table 154-11—Test patterns

Pattern	Pattern description	Defined in
5	Scrambled idle encoded by SC-FEC	82.2.11, Clause 153
TBD	TBD	TBD

Proposed for D1.3:

Table 154-11—Test pattern

Pattern	Pattern description	Defined in
5	Scrambled idle encoded by SC-FEC	82.2.11

Current Table 154-12 in D1.2

Table 154–12—Test-pattern definitions and related subclauses

Parameter	Pattern	Related subclause
Optical center frequency (wavelength)	valid 100GBASE-R signal, TBD	154.8.2
Side-mode suppression ratio	valid 100GBASE-R signal, TBD	154.8.2
Average channel output power	valid 100GBASE-R signal, TBD	154.8.3
TBD	TBD	TBD

Potential Table 154-12 for D1.3

Parameter	Pattern	Related subclause
Optical center frequency (wavelength)	valid 100GBASE-R signal, 5	154.8.2
Side-mode suppression ratio	valid 100GBASE-R signal, 5	154.8.2
Average channel output power	valid 100GBASE-R signal, 5	154.8.3
Spectral excursion	5	154.8.4
Laser linewidth	5	154.8.5
Offset between the carrier and the nominal center frequency	5	154.8.6
Power difference between polarizations	5	154.8.7
Skew between the two polarizations	5	154.8.8
Error vector magnitude	5	154.8.9
I-Q offset	5	154.8.10
Average input power [amplified]	5	154.8.12
OSNR(193.6) [amplified]	5	154.8.14

Second part of Potential Table 154-12 for D1.3

Parameter	Pattern	Related subclause
Receiver OSNR tolerance(193.6)	5	154.8.16
Ripple	5	154.8.17
Optical path OSNR penalty	5	154.8.18
Polarization rotation speed	5	154.8.19
Inter-channel crosstalk at TP3	5	154.8.20
Interferometric crosstalk at TP3	5	154.8.21

Comments/questions

- The potential table does not list parameters related to the “unamplified” case, because those parameters are not necessary to be met for the intended application:
 - Transmitter OSNR(193.6)
 - Average input power [unamplified]
 - OSNR(193.6) [unamplified]
- Then, will we need this long list or do we want to remove certain parameters from the list (comparing with in-force optical clauses)?
Candidates for removal from 154.8:
 - Offset between the carrier and the nominal center frequency
 - Power difference between polarizations
 - Skew between the two polarizations
 - Average input power [amplified], which is condition for OSNR measurement
 - More?

For discussion

For discussion and confirmation

Thanks!