Statement from Chiayo Electronics Co., Ltd.

Basic difference between the old and new SQ-916 / SM-916.

Transmitters	**OLD**	***NEW***
SQ-916 / SM-916	Single band companding. The compander IC used SE 572 from Philips has a dual band compressor circuit. Only half the function is used here.	*Dual band Companding. The compander IC used SE 572 from Philips has a dual band compressor. The full function is used in this case.*
SQ-916 / SM-916	Limiter circuit used is of transistor type.	*Limiter circuit is using opto-coupler instead of transistor.*

We use the term SDX to differentiate between the new from the old transmitters. SDX means Super High Dynamic which is the result of dual band companding + optocoupler limiter circuit.

In a dual companding design, the audio input signal in the transmitter is split into high and low frequency bands before being compressed by the dual band compressors in a single chip SE 572 IC. All this happen in the audio circuit of the transmitter and the RF circuit remains basically unchanged.

Statement end.