Scenario (Tabs)	Scenario	1					
HFC D/S Spectrum	*Example*	85 MHz					
Cascade Depth	*Example*	30	RF Amplifiers				
Channel Loading	*Example*	Linear DFB Optics 1310 nm, nominal link length					
Optical Architecture	*Example*	No HE Combining					
Premise Architecture	*Example*	No Combining					

		#	Parameters	Typical	Limit	Good	Notes
Spectrum		1	OFDM Bandwidth	192 MHz	24 MHz		
		2	Frequency range	5-85 MHz			Freq dependence for high split
RF Level		3	OFDM Power at CMTS Input (Total +/- dB)				
			6 MHz BW				*scaling factor vs freq notes section
			24 MHz BW				POE GW Model
			96 MHz BW				
			192 MHz BW				
Signal-to Composite-Noise-Ratio		4	SCN Ratio (Signal to Composite Noise Ratio)				NPR basis for performance values
			Variation Freq, 6.4 MHz BW				
			Variation Freq, 24 MHz BW				
			Variation Freq, 96 MHz BW				
			Variation Freq, 192 MHz BW				
Interference		5	FM Band Interference				"always on"
"Narrowband"			Bandwidth			None (out of band)	
			Level, dBc (PSD)			None (out of band)	
		6	Other Known Bands (review possible interference bands)				
		7	Common Path Distortion				
		8	Additive Spurious interference (other)				
			dBc/10 kHz				
			Percentage of effected subcarriers				
Wideband		9	Burst noise (spectrum, duration, duty, dBc)	meas initiative	SCTE-40 or DOCSIS	Negligible	Moto Meas
		10	Impulse noise (white, duration, duty, dBc)			"Only Laser Clipping"	Ref: SCTE-40, CL RFI, ReDesign, Meas
Freq Response		11	Amplitude Variation				Does not include Multipath effect
			(dB pk-pk/6.4 MHz)				
			(dB pk-pk/24 MHz)				
			(dB pk-pk/192 MHz)				
			(dB pk-pk/Total US BW)				
Amplitude		12	Amplitude Slope (dB/MHz, dB/kHz) peak slope				
Phase		13	Group Delay Variation				Include 2nd order component
			(ns/MHz over 4 MHz)				
			(ns/MHz over 24 MHz)				
			Lower Band Edge				
			Mid Band				
			Upper Band Edge				
			(ns/MHz over 192 MHz)				
			Lower Band Edge				
			Mid Band				

			Upper Band Edge				
Echo		14	Echo Profile, Delay Spread (µs)	99%	use CL data instead of SCTE-40	Majority	ampitude ripple implied, not included in freq response
			.5 usec				not all dBc echoes occur at once - mask!
			1 usec				single echo or multiple (max, rss)
			1.5 usec				SCTE-40 limit 4.5 usec
			2 usec				
			3 usec				
			4.5 usec				
			5 usec				
		15	AM/Carrier hum modulation				
Unused							
			MER				Perhaps identify a Tx Fidelity reference value (i.e. 43 dB of DRFI)
			AM/PM (deg/dB for > 10 kHz AM)				TBD if needed
			Phase Noise Mask				**Reference Only**
			dBc/Hz @ 1 kHz	-90			To be defined in "DRFI" equivalent
			dBc/Hz @ 10 kHz	-90	-86		Not "Channel" impairment
			dBc/Hz @ 50 kHz	-90		Low Freq Scale?	DRFI + "J.83B Compliant" Tuner
			dBc/Hz @ 100 kHz	-110			
			dBc/Hz @ 1 MHz	-130			
			dBc/Hz @ 3 MHz (floor)	-139			
			Discrete SPM				**Reference Only**
			Total dBc in any 10 kHz offset				To be defined in "DRFI" equivalent
			Total dBc in any 50 kHz offset				Not "Channel" impairment
			Implementation Loss				Not Channel Model info,
			≤ 256-QAM				implementation/vendor specific
			≤ 512-QAM				
			≤ 1024-QAM				
			≤ 2048-QAM				
			≤ 4096-QAM				