5. Analog Transmitter

Items	Standard Limit	*remark
RF Power Output (Ref: 3.2.1.1)	Class IV PL 0 - PL2 : 26dBm +0.2~ -4dB PL3 : 24dBm +2~-4dB PL4 : 20dBm +2--4dB PL5 : 16dBm +2 --4dB PL6 : 12dBm +2--4dB PL7 : 8dBm +2--4dB	**A**
Power Output Transition Time (Ref: 3.2.3)	Shall not exceed 20msec to switch between any two power level	M
Modulation Type & Stability (Ref: 3.3.1.1)	The peak deviation shall not exceed ±10%	A
Compressor Output (Ref: 3.3.1.2.1)	Input level above 0dB: ±0.5dB. Input level below 0dB: ±1dB Attack time : 3±0.6ms Recovery time : 13.5±2.7ms	**A**
Electrical Audio Response (Ref: 3.3.1.2.2)	From 300 to 3000Hz : -6dB/octave With +1 to –3dB range	**A**
Modulation Deviation Limiting (Ref: 3.3.1.2.3)	Peak frequency deviation ±12kHz	A
Audio Voice-Path Muting (Ref: 3.3.1.2.4)	At least 40dB	M
Audio Frequency Response (Ref : 3.3.1.2.5)	Level Relative to Nominal @ 1kHz Freq(kHz) Upper Limit(dB) Low Limit(dB) 0.1 -4 no 0.2 +2 no 0.3 +2 -12.5 1.0 +2 -2 2.0 +14 -2 3.0 +14 -9 3.4 +14 no 4.0 -4.8 no	S
Audio Sensitivity (Ref : 3.3.1.2.6)	TOLR should have a nominal value of –46dB The range is -38 to –51dB	S
Wideband Data (Ref: 3.3.1.3)	±8KHz Peak frequency deviation with ±10% tolerance	A
Hum and Noise (Ref : 3.3.1.6)	At least 32dB	A
Modulation Distortion and Noise (Ref : 3.3.1.8)	Under 5%	**A**
Noise Suppression – Broadband (Ref: 3.4.1.1)	* refer ***Figure 1-5***	M
Harmonic & Spurious Emission-Conducted (Ref: 3.4.2.1)	Tx Band : 43 + 10[log(mean output power in Watts)] dB Rx Band : -80dBm/30kHz	M

7. Digital Transmitter

Items	Standard Limit	*remark
RF Power Output (Ref : 3.2.1.2)	Class IV PL 0 ,1 ,2 : 25.8dBm +0.2dB~ -4dB PL3 24dBm +2dB ~ -4dB PL4 20dBm +2dB ~ -4dB PL5 16dBm +2dB ~ -4dB PL6 12dBm +2dB ~ -4dB PL7 8dBm +2dB ~ -4dB PL8 3dBm +2dB ~ -6dB PL9 -2dBm +2dB ~ -6dB PL10 : -7dBm +2dB ~ -6dB	A
Modulation Type and Accuracy (Ref: 3.3.2.1)	The RMS vector error shall be less than 12.5% The frequency offset shall be less than -20dBc	A
Audio Frequency Response.	Level Relative to Nominal @ 1kHz Freq(kHz) Upper Limit(dB) Low Limit(dB) 0.1 -4 no 0.2 +2 no 0.3 +2 -12.5 1.0 +2 -2 2.0 +14 -2 3.0 +14 -9 3.4 +14 no 4.0 -4.x no	S
Audio Sensitivity (Ref: 3.3.2.2.3)	TOLR(Trasmitter Objective Loudness Rating) : -46dB (range -38dB ~ -51dB)	S
Adjacent & Alternate Channel Power due to Modulation (Ref: 3.4.1.2)	* refer ***Figure1-10***	A
Harmonic & Spurious Emission (conducted) (Ref: 3.4.2.2)	Tx band(Fc±12kHz) : 45dBc Rx band : shall not exceed -80dBm/30kHz	M

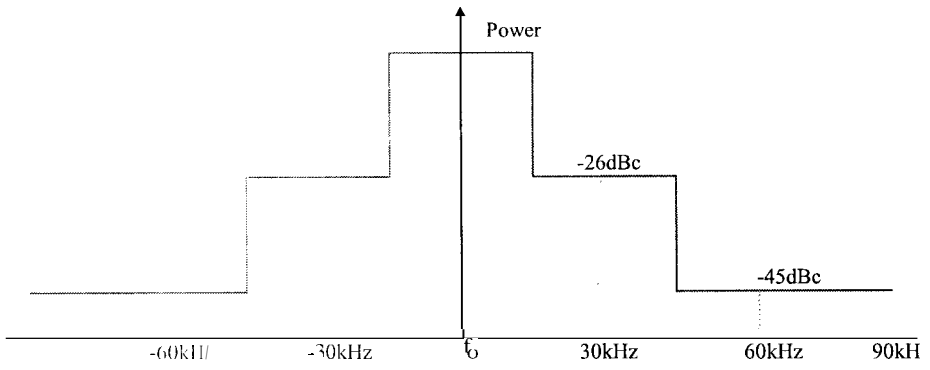

Figure1-10. Adjacent & Alternate Channel **Power** due to Modulation