Television Sound Levels

		TPH		R.F. Level Relative
Signal	Audio Level (dBu)	TPM Reading	Peak Deviation (kHz)	to Unmod. Carrier (dB)
Programme Line-up (400 Hz)	0	4	<u>+</u> 17.0	_2
Tone (400 Hz)	+8	6	+42.7	_2
Noise Line-up (1 kHz)	0	4	±17.7	_2
19 kHz Monitoring	-34.5 (Appr	rox) -	<u>+</u> 1.9	-26
23 kRz DPSK Deta	-34.5 (Appr	rox) -	<u>+</u> 2.3	-26
27.1 kHz DPSK Data	-34.5 (App	rox) -	<u>+</u> 2.7	-26

Network and Local Radio VRF/FM Radio Levels : Stereo

Signal		TPH Reading	Coder Output (mV p-p)	Peak Deviation (kHz)	to Unmod. Carrier (dB)
Full System Deviation	-	-	1000	<u>+</u> 75-00	-
Left and Right Channel (400 Hz)	-3	3£	228*	<u>+</u> 17.120	_2
Left and Right Channel (400 Hz)	+8	6	810*	<u>+</u> 60.750	_2
Noise Line-up (1 kHz)	- 3	•	237	+17.61	_2
19 kHz Pilot Tone	-	-	81	<u>+</u> 6.075	-16
23 kRz Monitoring Tone	-28 (Approx)	-	60	<u>+</u> 4.50	-20
38 kHz Carrier Leak	-	•	9	<u>+</u> 0.675	-40
57 kHz Radio Data	-	-	40	<u>+</u> 3.0	-32
76 kHz PSK Data	-	-	32	<u>+</u> 2.4	-36
5.3 kHz Bassel Zero	±2.6	•	839*	+62.89	_2

Network VRF/FM Radio Levels : Mono

Signal	Audio Level	TPM Reading	Peak Deviation (kHz)	R.F. Level Relative to Unmod. Carrier (dB)
Programme Line-up (400 Hz)	0	4	<u>+</u> 17.12	_2
Tone (400 Hz)	+8	6	<u>+</u> 43.01	_2
Tone (400 Hz)	+113	6 t 3	<u>+</u> 60.75	_2
Noise Line-up (1 kHz)	0	4	<u>+</u> 17.81	_2
23 kRz Monitoring or Data	-28 (Approx)	-	<u>+</u> 4.5	-20

Local Radio VHF/FM Levels : Mono

Signal	Audio Level (dBu)	TPH Reading	Peak Deviation (kHz)	R.F. Level Relative to Unmod. Carrier (dB)
Programme Line-up (400 Hz)	0	4	+24.19	_2
Tone (400 Hz)	+8	6	<u>+6</u> 0.75	_2
Noise Line-up (1 kHz)	0	4	±25.15	_2
23 kHz Monitoring or Data	-28 (Approx)	-	<u>+</u> 4.5	-20

Notes

- 1. This is the r.f. level of the first sideland relative to the unmodulated carrier and is ideally measured in the absence of other modulating signals.
- 2. The first sideband is too close to carrier to be measured on a typical spectrum analyser.
- 3. The limiters will act +11 dBu, TFM '6%' (+60.75 kRz deviation). The mono network is derived from a stereo source and its level is 3 dB less than the sum of the left and right signals. Maximum mono level therefore occurs when A-B=+8dB, i.e. -3 dB relative to the voltage addition of +8 dBu and +8 dBu, that is +11 dBu.
- 4. On Local Radio stations the coder input is preceded by limiters having a gain of 3 dB before
- * This may be measured out of the coder with either L and/or $\pm R$ signals but must be \underline{ORLY} L and R co-phased when measuring deviation Y with no place.