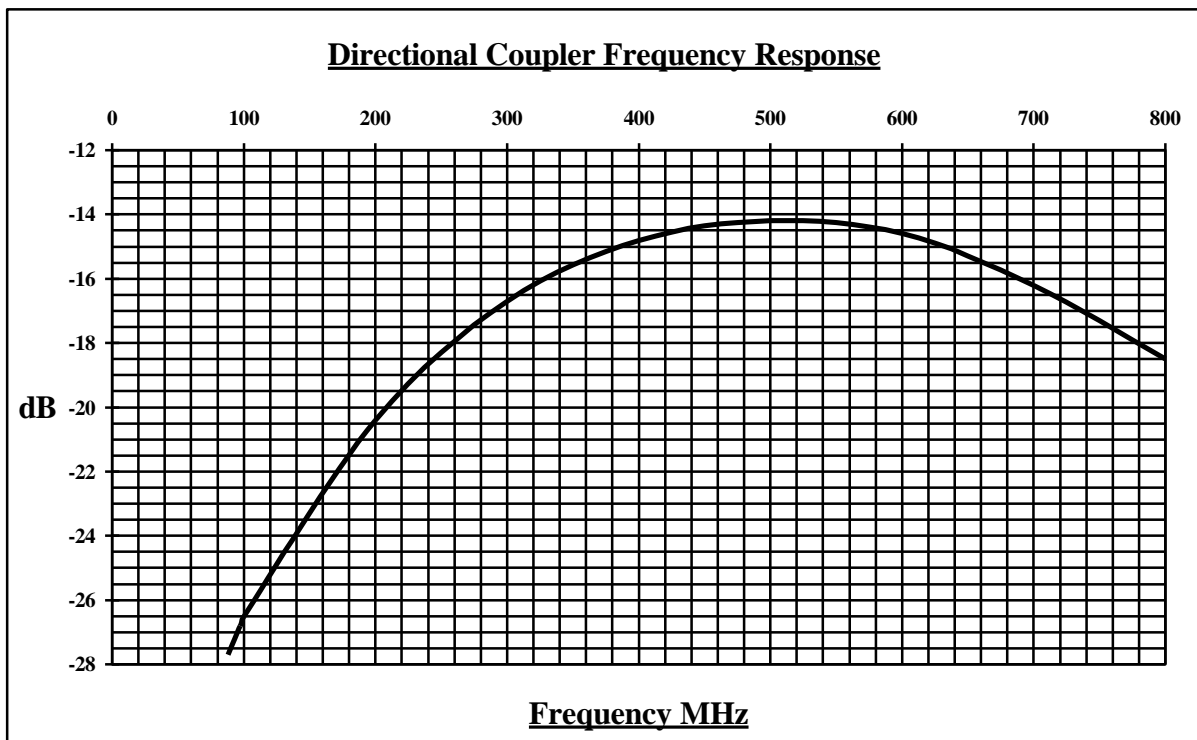


**ILR SHAFTESBURY L179 GOLD RADIO 97.4 MHz****VHF COMMISSIONING FORM**

Station Name	Gold Radio	
Area	Shaftesbury	
Site/NGR	ST 864235	
Frequency	97.4MHz	
ERP Cleared 200W (100/100) In use	120W (20/100)	
Inter-connecting cables Type/Loss	0.5dB	
Directional Coupler Type	sbs	
Filter/Combiner Type / Insertion Loss	na	
Feeder Type/Loss	LDF450 62m / 1.3dB	
Aerial Type/Gain	AEA FMC100 (-6.5dBHP / 1.65dBVP)	
System Gain	-0.15dB	
Transmitter Power	120W	
Aerial Height Cleared 50m In use	35m	
<u>Equipment List</u>		
	A Chain	B Chain
Processor	Innovonics 250	
Limiter	MaXiM mod 5	part of FM25
Stereo Encoder	MPX5 os comp	part of FM25
Exciter	FM25 B/B	part of FM25
RDS	VG1076	na
TA/TP	Not implemented	na
Change-over unit	ACU2	
Power Amplifier	Eddystone B66005	
Standby Feed	Guardian with CD to be fitted	
<u>Measurements</u>		
	<u>A Chain</u>	<u>B Chain</u>
Transmitter Frequency	97.399895 MHz	97.399999 MHz
Exciter Power Output	10W	10W
Transmitter Power Output	120W	120W
Pilot Tone Deviation	6.9kHz	6.8kHz
RDS Deviation	2kHz	None
Audio Sweep 0-20kHz	Gold-asa.bmp	Gold-asb.bmp
Peak Programme Deviation	Gold-ppa.bmp	Gold-ppb.bmp
Return Loss	1Watt/120Watt = 20.8dB	

**ILR SHAFTESBURY L179 GOLD RADIO 97.4 MHz**

<u>Spectral Occupancy</u>		A Chain	B Chain
All Frequencies	-60.0 dBc	-80 dBc	-80 dBc
108 - 118 MHz	-66.8 dBc	-85 dBc	-85 dBc
118 - 137 MHz	-66.8 dBc	-85 dBc	-85 dBc
2nd Harmonic		-81 dBc	-81 dBc
3rd Harmonic		-85 dBc	-85 dBc
4th Harmonic		-86 dBc	-86 dBc



Derived from the sbs information given below.

Freq.	88	97.4	100	200	300	400	500	600	700	800
dB	-27.7	-26.8	-26.5	-20.4	-16.7	-14.8	-14.2	-14.6	-16.2	-18.5