

CLASSIFICATION UNCLASSIFIED		PAGE 46	
TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) AN/PRC-148B(V)1(C) See Data Overflow Page		2. MANUFACTURER'S NAME (U) Thales Communications, Inc.	
3. TRANSMITTER INSTALLATION (U) Ground Mobile, Hand-held, Portable		4. TRANSMITTER TYPE (U) CPM, MSK	
5. TUNING RANGE (U) 225.000 MHz - 450.000 MHz		6. METHOD OF TUNING (U) PLL Synthesizer	
7. RF CHANNELING CAPABILITY (U) 225.000 MHz, 25kHz Increments		8. EMISSION DESIGNATORS (U) 1M20G1D (U) (U)	
9. FREQUENCY TOLERANCE (U) 0.5 ppm		12. EMISSION BANDWIDTH ☐ CALCULATED ☒ MEASURED	
10. FILTER EMPLOYED (U) ☒ a. YES ☐ b. NO		a. -3 dB (U) 617 KHz (U) (U)	
11. SPREAD SPECTRUM (U) ☒ a. YES ☐ b. NO		b. -20 dB (U) 1.280 MHz (U) (U)	
13. MAXIMUM BIT RATE (U) 12.000 Mbps		c. -40 dB (U) 2.260 MHz (U) (U)	
14. MODULATION TECHNIQUES AND CODING (U) CPM, QBL-MSK		d. -60 dB (U) 3.530 MHz (U) (U)	
16. PRE-EMPHASIS (U) ☒ a. YES ☐ b. NO		e. OC-BW (U) 1.430 MHz (U) (U)	
19. POWER		15. MAXIMUM MODULATION FREQUENCY (U) 2.400 MHz	
a. MEAN (U) 0.1 W (U) (U) - 5 W		17. DEVIATION RATIO (U) NA	
b. PEP (U) (U) (U)		18. PULSE CHARACTERISTICS	
20. OUTPUT DEVICE (U) LDMOS OR GAN FET		a. RATE (U) NA (U) (U)	
22. SPURIOUS LEVEL (U) -60 dB		b. WIDTH (U) NA (U) (U)	
23. FCC TYPE ACCEPTANCE NO. (U)		c. RISE TIME (U) NA (U) (U)	
24. REMARKS (U)		d. FALL TIME (U) NA (U) (U)	
		e. COMP RATIO (U) NA (U) (U)	
		21. HARMONIC LEVEL	
		a. 2nd (U) -50 dB	
		b. 3rd (U) -50 dB	
		c. OTHER (U) -60 dB	
ITEM 1: The SRW Waveform Description Specification delineates the tuning requirements shown here. User access to tuning range can be limited by depot level software configurable band blocks. ITEM 5: 216.025-220 MHz, 225-328.6 MHz and 335.4-399.875 MHz. ITEM 10: RF Filtering is performed on the transmit signal to control out-of-band emissions across the entire frequency range. Tunable output bandpass filters suppress harmonics, broadband noise and spurious emissions. ITEM 8/14/15/17: Emssn Des. Chip Rate(MHz) Spread Fctr Code Rate Data Rate BW(kbps) Mod 1M20G1D 2.4 1 5/6 2000 1.2 4ary CPM(h=1/6) 1M20G1D 1.2 16 3/4 56.25 1.2 QBL-MSK 1M20G1D 1.2 8 3/4 112.5 1.2 QBL-MSK 1M20G1D 1.2 1 32/41 936.59 1.2 QBL-MSK (U) The maximum chip to symbol (spreading) ratio using QBM MSK is 128.			
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