

**TRANSMITTER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Marine Corps Wideband Communication System * (221-0230525-001, Modem Module_250 Mbps)	<b>2. MANUFACTURER'S NAME</b> (U) SAIC
<b>3. TRANSMITTER INSTALLATION</b> (U) Mobile Ground Station	<b>4. TRANSMITTER TYPE</b> (U) Single Conversion Superheterodyne
<b>5. TUNING RANGE</b> (U) 4.5 GHz-4.7 GHz	<b>6. METHOD OF TUNING</b> (U) Synthesizer
<b>7. RF CHANNELING CAPABILITY</b> (U) 4.545GHz, 110 MHz increments	<b>8. EMISSION DESIGNATOR(S)</b>  84M0G1D
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm	
<b>10. FILTER EMPLOYED (X one) (U)</b> <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO	
<b>11. SPREAD SPECTRUM (X one)</b> <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	<b>12. EMISSION BANDWIDTH (X and complete as applicable)</b> <input checked="" type="checkbox"/> CALCULATED <input type="checkbox"/> MEASURED
<b>13. MAXIMUM BIT RATE</b> (U) 1Mbps	a. -3 dB (U) 84 MHz b. -20 dB (U) 120 MHz c. -40 dB (U) NA d. -60 dB (U) 160 MHz e. OC-BW
<b>14. MODULATION TECHNIQUES AND CODING</b> (U) QPSK	<b>15. MAXIMUM MODULATION FREQUENCY</b> (U) 142 MHz
<b>16. PRE-EMPHASIS (X one)</b> <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	<b>17. DEVIATION RATIO</b> (U) NAvail
<b>19. POWER</b> a. MEAN (U) 63.1 W b. PEP	<b>18. PULSE CHARACTERISTICS</b> a. RATE (U) NA b. WIDTH (U) NA c. RISE TIME (U) NA d. FALL TIME (U) NA e. COMP RATIO (U) NA
<b>20. OUTPUT DEVICE</b> (U) Solid State	<b>21. HARMONIC LEVEL</b> a. 2ND (U) -80 dB b. 3RD (U) -80 dB c. OTHER (U) -80 dB
<b>22. SPURIOUS LEVEL</b> (U) -65 dB	(U) NA
<b>23. FCC TYPE ACCEPTANCE NO.</b>  (U) NA	(U) NA

**24. REMARKS** 2. Science Application International Corporation (SAIC)  
 7. Two channels, Channel 1 center frequency @ 4.545 GHz  
 Channel 2 center frequency @ 4.655 GHz

\* Transmitter characteristics specified are unique to having  
 a 221-0230525-001, modem Module\_250 Mbps installed