

LIST OF EXHIBITS

DESCRIPTION	EXHIBIT	REFERENCE
I. Identification label information & General Information	1 1a	2.1033-(c) 11
1. Production Plans		2.1033-(c)
2. Application References		2.1061
3. Data Submittal Procedure		
II. Certification of Data	2	
III. External Photographs	3	2.1033-(c) 12
IV. Block Diagrams (Circuit Diagrams)	4	
V. Schematic Diagrams	5	2.1033-(c)-10
VI. Test Report	6	
1. Data Index	6	
2. RF Output Data	6A	2.1046
3. Modulation Characteristics		2.1047
A. Audio Response & Low Pass Filter Response	6B	
B. Low Pass Filter Response	6C	
C. Modulation Limiting	6D	
4. Occupied Bandwidth	6E	2.1049
5. Adjacent Channel Coupled Power Ratio	6F	90.543
6. Conducted Spurious Emissions	6G	2.1051
7. Radiated Spurious Emissions	6H	2.1053
8. 1559 – 1610 Radiated Spurious	6I	90.543-(e)
9. Frequency Stability (Temperature & Supply Voltage)	6J-1, 6J-2	2.1055
VII. Test Set-up Procedures	7	2.1041
VIII. Instruction Manual	8	2.1033-(c) 3
IX. Internal Photographs.	9	2.1033-(c) 11, 12
X. Parts List and Tune-Up procedures	10	2.1033-(c) 9, 10
XI. RF Exposure Information	11	2.1093
XII. Operational Description	12	2.1033-(c) 4, 5
1. Technical Characteristics		
2. Application		
XIII. Cover Letter	13	

IDENTIFICATION LABELLOCATION

- ☐ See the Attached Photograph or Sketch
- ☒ Back Of Radio
- ☐ Back Of Radio under Belt Clip

TYPE

- ☒ The label is a paper polyester film laminate with a pressure sensitive adhesive backing. The adhesive is a permanent type acrylic with a minimum peel strength of 40 oz/inch.

MARKINGS (TEXT)

- ☒ See the Attached Photograph and Exhibit 3-3 for the actual location of the FCC label on the device.
- ☐ Label Attached Below.
- ☐ See Attached Drawing.



GENERAL INFORMATION

- I. Production Plans -- Pursuant 2.1033 (c)
Quantity production is planned.
- II. Application References -- Pursuant 2.1061
Reference is made to the following Motorola "Application References"
 1. Portable Products and their application.
 2. Portable Products Transmitter Modulations Methods.
 3. Plantation, Florida Antenna Range.
- III. Data Submittal Procedure:
Data is supplied in accordance with Part 2, Sub-part J of the Commissions' rules.

Necessary Bandwidth Computation for 8K10F1E Emission Designator

The FCC Rule & Regulations Part 2, §2.202(b) defines *Necessary Bandwidth* as the minimum value of the occupied bandwidth sufficient to ensure that transmission of information at the rate and with the quality required for the system employed. §2.202(c) lists four methods of determining the necessary bandwidth, including the use of formulas in §2.202(g), and measurement in cases where the other methods of §2.202(c) do not apply. It is felt that while these formulas apply well to voice and many older digital modulation systems, the formulas do not apply to the high performance digital modulation employed in the system submitted for Certification because of difficulties determining representative values for the factors K and M. We have, therefore, used the measurement criteria of §2.202(c)(4).

The value cited, 8K10, is the bandwidth that contains 99% of the total transmitted power. The 99% value was chosen because §2.202(b) defines *Necessary Bandwidth* as the minimum value of the occupied bandwidth. In turn, §2.202(b) defines *Occupied Bandwidth* as the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission, i.e., contains 99% of the total transmitted power.

- IV. Applicable References:
 - Reference Certification FCC ID: AZ489FT5806
 - EIA/TIA-603 Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
 - FCC Federal Regulations Part 47 Sec. 2.1033 – 2.1055
 - FCC Federal Regulations Part 90 Sec.90.210