

# 2390-2395 MHz

## 1. Introduction

The 2390-2395 MHz band is used by Federal aeronautical mobile telemetry (AMT) systems for flight testing of aircraft, missiles, or major components thereof on a primary basis. The Air Force and the Navy use various AMT systems for flight testing of aircraft, missiles and weapons. The Department of Energy has other mobile telemetry uses than flight testing, such as pre-flight ground system testing of missiles.

## 2. Allocations

### 2a. Allocations Table

The frequency allocations table shown below is extracted from the Manual of Regulations and Procedures for Federal Radio Frequency Management, Chapter 4 – Allocations, Allotments and Plans.

*Table of Frequency Allocations*

*United States Table*

<b>Federal Table</b>	<b>Non-Federal Table</b>	<b>FCC Rules Part(s)</b>
2390-2395 MOBILE US276	2390-2395 AMATEUR MOBILE US276	Aviation (87) Amateur Radio (97)

### 2b. Additional Allocations Table Information

**US276** Except as otherwise provided for herein, use of the band 2360-2395 MHz by the mobile service is limited to aeronautical telemetering and associated telecommand operations for flight testing of aircraft, missiles or major components thereof. The following three frequencies are shared on a co-equal basis by Federal and non-Federal stations for telemetering and associated telecommand operations of expendable and reusable launch vehicles, whether or not such operations involve flight testing: 2364.5 MHz, 2370.5 MHz, and 2382.5 MHz. All other mobile telemetering uses shall not cause harmful interference to, or claim protection from interference from, the above uses.

### 3. Federal Agency Use

#### 3a. Federal Agency Frequency Assignments Table

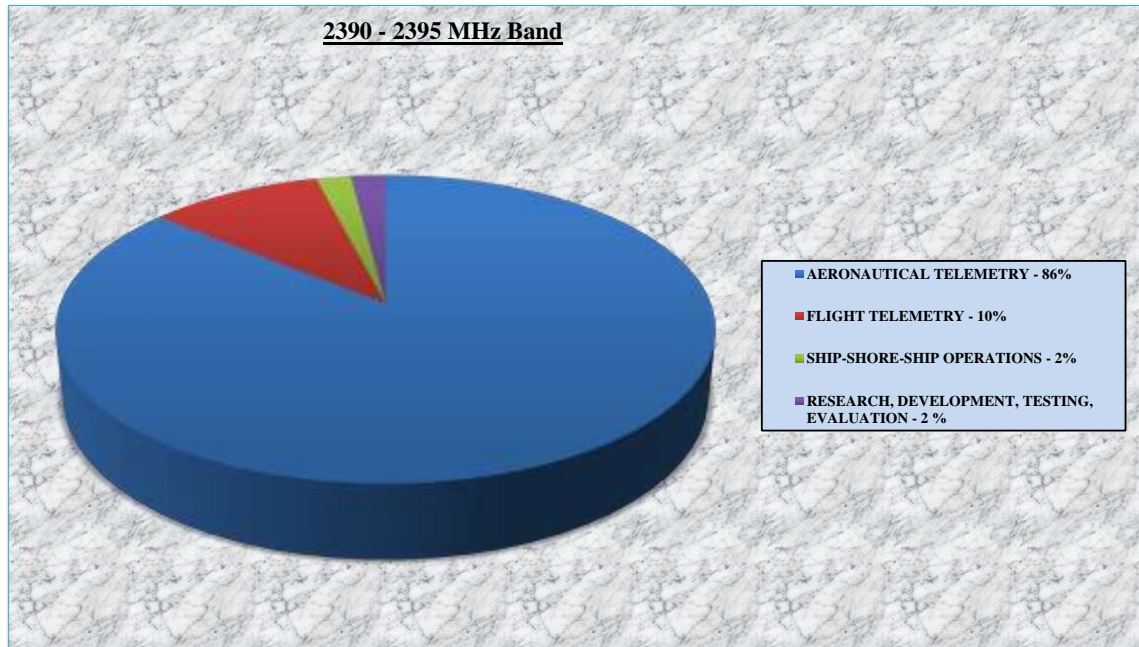
The following table identifies the frequency band, types of allocations, types of applications, and the number of frequency assignments by agency.

*Federal Frequency Assignment Table*

2390-2395 MHz Band					
SHARED BAND					
AGENCY	AMATEUR MOBILE				
	TYPE OF APPLICATION				
	AERONAUTICAL TELEMETRY	FLIGHT TELEMETRY	SHIP-SHORE-SHIP OPERATIONS	RESEARCH DEVELOPMENT TESTING EVALUATION	TOTAL
AF	5			1	6
DOE		2			2
N	10		1		11
<b>TOTAL</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>19</b>
<p>The number of actual systems, or number of equipments, may exceed and sometimes far exceed, the number of frequency assignments in a band. Also, a frequency assignment may represent, a local, state, regional, or nationwide authorization. Therefore, care must be taken in evaluating bands strictly on the basis of assignment counts or percentages of assignments.</p>					

### 3b. Percentage of Frequency Assignments Chart

The following chart displays the percentage of frequency assignments for the various types of Federal systems operating in the 2390-2395 MHz band.



## 4. Frequency Band Analysis by Application

### 4a. Aeronautical Telemetry

The Air Force uses this band for AMT operations in support of developmental and operational testing of military flight systems at Edwards Air Force Base, California.

The Navy uses this band primarily for range operations, such as air-to-ground telemetry in support of various missile/weapon testing and evaluation, at China Lake and San Nicolas Island, California; and Patuxent River, Maryland.

The 2360-2395 MHz band having a 35-MHz allocation bandwidth allows greater frequency availability for multiple range users.

### 4b. Flight Telemetry

The Department of Energy uses this band for ground and pre-flight testing during development of telemetry systems in support of National Missile Defense Program, Integrated Flight Test series over the Pacific Ocean.

#### **4c. Shore-to-Ship Operation**

The Navy performs shipboard direction finding (DF) calibrations of Navy ships in the Atlantic Ocean from a shore transmitter facility at Fort Story, Virginia. The use of the maritime mobile service for the transmitter in this band is not in complete conformity with Footnote US276.

#### **4d. Research, Development, Testing and Evaluation**

The Air Force uses this band to test the Pacific wind video system that is installed onboard any aircraft as an experimental system.

The Air Force also plans to test an unmanned aerial vehicle (UAV) video link for proof-of-concept technology demonstration at Vandenberg Air Force Base, California.

### **5. Planned Use**

The Federal Government use is expected to remain the same for the foreseeable future.