Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2002, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104°F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.



A2LA

"AZLA has accredited M. Flom Associates, Inc. Chandler, AZ for technical competence in the field of Electrical Testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Certificate Number: 2152-01

List of General Information Required for Certification

In Accordance with FCC Rules and Regulations, Volume II, Part 2 and to Part 90

	rt 2.1033	· · · · · · · · · · · · · · · · · · ·		
(c)(1):	Name and Address of A	opticant:		
		Kenwood USA Corporation Communications Division 3975 Johns Creek Court, Suite Suwanee, GA 30024	300	
	Manufacture r :			
		Kenwood Electronics Technolog 1 Ang Mo Kio Street 63 Singapore 569110	gies PTE Ltd.	
(c)(2):	FCC ID:		ALH22961110	
	Model Number:		TK-480	
(c)(3):	Instruction Manual(s):			
	Please s	ee original exhibits		
(c)(4):	Type of Emission:		16KOF3E, 14KOF3E	
(c)(5):	Frequency Range, MHz:		806 - 825 851 - 874	
(c)(6):	Power Rating, Watts: Switchable	X Variable	2.5 N/A	
	FCC Grant Note:		вк	
(c)(7):	Maximum Power Rating	Watts:	100	
	DUT Results:		Passes X	Fails

Subpart 2,1033 (continued)

(c)(8): Voltages & currents in all elements in final RF stage, including final transistor or solid-state device:

Collector Current, A = 1.7 Collector Voltage, Vdc = 6.0 Supply Voltage, Vdc = 7.5

(c)(14): Test and Measurement Data:

Follows

Name of Test: Frequency Stability (Temperature Variation)

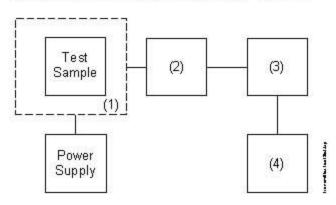
Specification: 47 CFR 2.1055(a)(1)

Guide: ANSI/TIA/EIA-603-1992, Paragraph 2.2.2

Measurement Procedure

- A) The EUT and test equipment were set up as shown on the following page.
- B) With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
- C) With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
- D) The temperature tests were performed for the worst case.

Transmitter Test Set-Up: Temperature Variation



	Asset	Description	s/n	Cycle	Last Cal
(1)	Temperatu	re , Humidity , Vibration			
X	i00027	Tenney Temp. Chamber	9083-765-234	NCR	
(2)	Coaxial Att	enuator			
x	i00231/2	PASTERNACK PE7021-30 (30 dB)	231 or 232	NCR	
	i00122/3	NARDA 766 (10 dB)	7802 or 7802A	NCR	
(3)	RF Power				
X	i00067	HP 8920A Communications TS	3345U01242	12 mo.	Jun-05
(4)	Frequency	Counter			
X	i00067	HP 8920A Communications TS	3345U01242	12 mo.	Jun-05

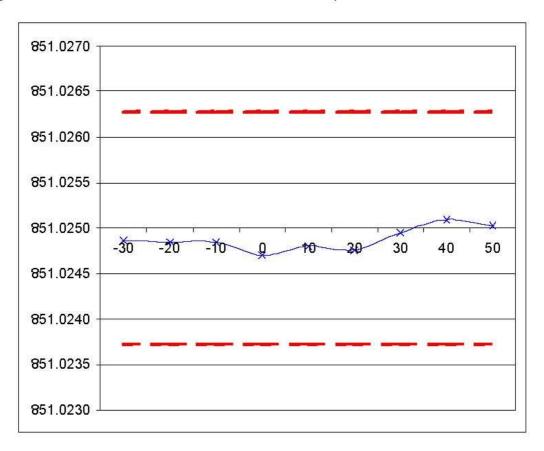
Name of Test:

Frequency Stability (Temperature Variation)

Measurement Results

State: High Power

Room Temperature: 23°C ± 3°C



Vertical Axis = MHz Horizontal Axis = Degrees Centigrade

Performed by:

Fred Chastain, Test Technicians

Name of Test:

Frequency Stability (Voltage Variation)

Specification:

47 CFR 2.1055(d)(1)

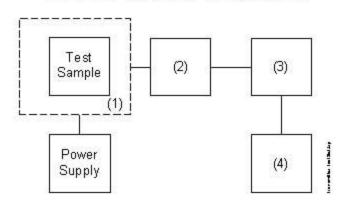
Guide:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.2

Measurement Procedure

- A) The EUT was placed in a temperature chamber (if required) at 25±5°C and connected as shown below.
- B) The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- C) The variation in frequency was measured for the worst case.

Transmitter Test Set-Up: Voltage Variation



	Asset	Description	s/n	Cycle	Last Cal
(1)	Temperatu	re , Humidity , Vibration			
did.	i00027	Tenney Temp. Chamber	9083-765-234	NCR	
(2)	Coaxial Att	enuator			
X	i00231/2	PASTERNACK PE7021-30 (30 dB)	231 or 232	NCR	
	i00122/3	NARDA 766 (10 dB)	7802 or 7802A	NCR	
(3)	RF Power				
X	i00020	HP 8901A Power Mode	2105A01087	12 mo.	Apr-05
(4)	Frequency	Counter			
X	i00020	HP 8901A Frequency Mode	2105A01087	12 mg.	Apr-05

Results:

Frequency Stability (Voltage Variation)

State:

Ambient Temperature: 23°C ± 3°C

= +1.5

 $= \pm 1276$

= 6.0

Limit, ppm Limit, Hz Battery End Point (Voltage)

% of STV	Voltage	Frequency, MHz	Change, Hz	Change, ppm
115%	8.63	851.024763	-237	-0.28
100%	7.50	851.024760	-240	-0.28
85%	6.35	851.024759	-241	-0.28
80%	6.00	851-024759	-241	-0.28

Performed by:

Fred Chastain, Test Technicians

END OF TEST REPORT

Testimonial and Statement of Certification

This is to Certify:

- That the application was prepared either by, or under the direct supervision of, the undersigned.
- That the technical data supplied with the application was taken under my direction and supervision.
- 3. That the data was obtained on representative units, randomly selected.
- That, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certifying Engineer:

David E. Lee, Quality Assurance Manager