EXHIBIT 6b: MEASURED DATA – Pursuant 47 CFR 2.1041

6.b1 Land Mobile Band Modulation Characteristics and Necessary Bandwidth -- Pursuant 47 CFR 2.1033(c)13, §2.1047(d), §2.1053, §2.1057, and §2.202.

The attached test report demonstrates compliance with the requirements of Part 24 for Authorized bandwidth (§24.131) and Spurious Emissions (§24.133(a)(1)).

849 NW STATE ROAD 45
NEWBERRY, FL 32669 USA
PH: 888.472.2424 OR 352.472.5500
FAX: 352.472.2030
EMAIL: INFO@TIMCOENGR.COM
HTTP://WWW.TIMCOENGR.COM

FCC PART 22 AND 24 TEST REPORT

Applicant	MOTOROLA, INC.
	8000 WEST SUNRISE BLVD, MD: 1309
	FT. LAUDERDALE FL 33322-9947 USA
FCC ID	AZ489FT5855
Model Number	i325 IS
Product Description	iDEN PORTABLE RADIO
Date Sample Received	9/20/2006
Date Tested	10/3/2006
Tested By	Richard Block
Approved By	Mario de Aranzeta
Timco Report No.	M\MOTOROLA_Florida\2680AUT6\2680AUT6TestReport.doc
Total Pages	
Test Results	☒ Pass ☐ Fail

ACCREDITED
Certificate # 0955-01

TABLE OF CONTENTS

STATEMENT OF COMPLIANCE

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards.

I attest that the necessary measurements were made by me or under my supervision, at Timco Engineering, Inc. located at 849 N.W. State Road 45, Newberry, Florida 32669 USA.

Authorized by: Mario de Aranzeta

Signature: *<Mario de Aranzeta>*

Function: Engineer

Date: 10/11/2006

Tested by: Richard Block

Date: 10/3/2006

GENERAL INFORMATION

DUT Specification

The test results relate only to the items tested.			
FCC Rule Part(s)	§ 22H, § 24E		
DUT Description	iDEN PORTABLE RADIO		
FCC ID	AZ489FT5830		
Model Name	i325 IS		
Tx Frequency	901.5		
Max. Power Rating	0.7W		
Emission Designators	18K3D7W		
Modulation(s)	iDEN TDMA		
User Power Control	☐ Yes	☒ No	
DUT Power Source	☐ 110–120Vac/50– 60Hz		
	☐ DC Power		
	☒ Battery Operated Exclusively		
Test Item	☐ Prototype	☒ Pre-Production	☐ Production
Type of Equipment	☐ Fixed	☐ Mobile	☒ Portable
Antenna	monopole		
Antenna Connector	SMA		

Test Facility: The test site used by Timco Engineering Inc. for radiated and conducted emission data is located at 849 NW State Road 45 Newberry, FL 32669 USA.

Test Condition: The DUT was tested in the laboratory in an environment with normal temperature and humidity. The temperature was 26°C with a relative humidity of 50%.

Modification to the DUT: No modification was made to the DUT during testing.

Test Exercise (e.g software description, test signal, etc.): The DUT was placed in continuous transmit mode of operation.

EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
Antenna: Biconnical	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Antenna: Biconnical	Eaton	94455-1	1096		Out for Cal
Antenna: Biconnical	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Analyzer Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Analyzer Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Analyzer Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
LISN	Electro-Metrics	ANS-25/2	2604		Out for cal
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Antenna: Log-Periodic	Eaton	96005	1243	CAL 12/14/05	12/14/07

TEST PROCEDURE

Power Line Conducted Interference: The procedure used was ANSI Standard C63.4-2003 using a 50uH LISN. Both lines were observed with the UUT transmitting. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

Bandwidth 20 dB: The measurements were made with the spectrum analyzer's resolution bandwidth (RBW) = 1 MHz and the video bandwidth (VBW) = 3 MHz and the span set as shown on plot.

Power Output: The RF power output was measured at the antenna feed point using a peak power meter.

Antenna Conducted Emissions: The RBW = 100 kHz, VBW = 300 kHz and the span set to 10 MHz and the spectrum was scanned from 30 MHz to the 10th Harmonic of the fundamental. Above 1 GHz the resolution bandwidth was 1 MHz, the VBW = 3 MHz, and the span 50 MHz.

Radiation Interference: The test procedure used was ANSI STANDARD C63.4-2003 using an Agilent spectrum receiver with pre-selector. The bandwidth (RBW) of the spectrum receiver was 100 kHz up to 1 GHz and 1 MHz above 1 GHz with an appropriate sweep speed. The VBW above 1 GHz was 3 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

OCCUPIED BANDWIDTH

Rules Part No.: §2.1049, §22.917e, §22.917f, §22.917h, §24.238

Requirements:

Out of band emissions: The mean power of emissions must be attenuated below the mean power of the un-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by: At least 43 + 10log(Po) = dB.

Please refer to the plots below.

Band-edges compliance: Measurement were performed in accordance with Part 22.917 (h)

Please refer to the plots below.

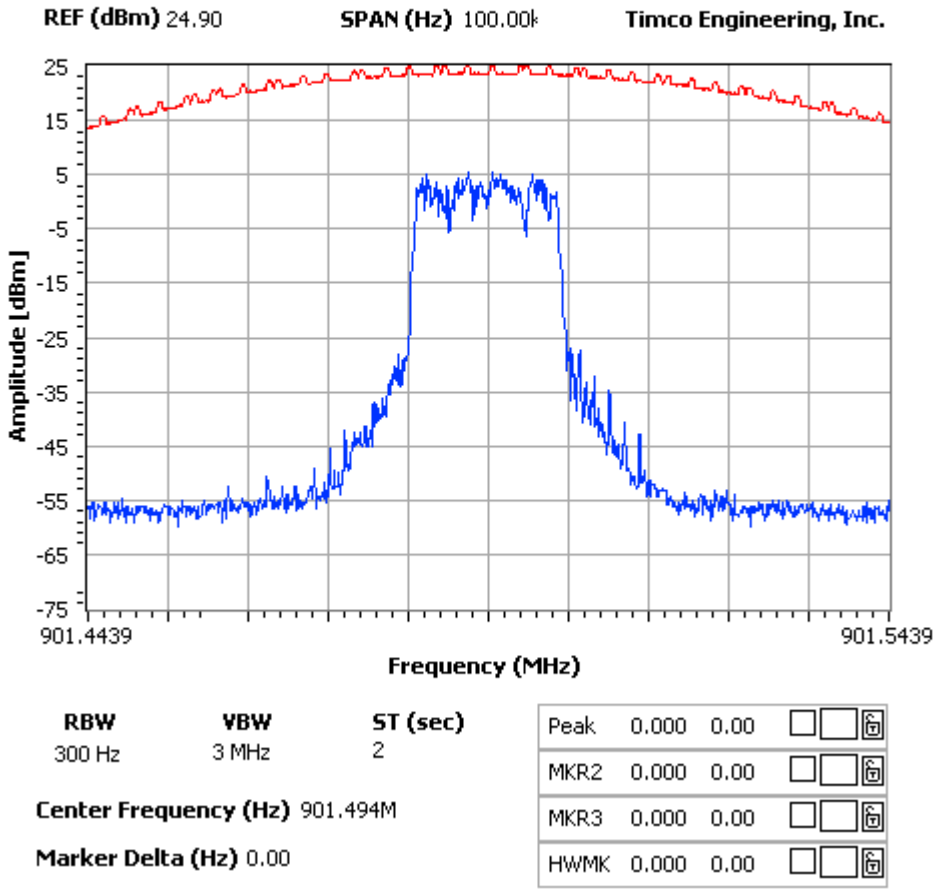
Mobile emissions in base frequency range: The measurement was performed per 22.917(f). The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not to exceed – 80 dBm at the transmit antenna connector. The Low, Mid, and High channels were tested. The worst-case emissions are reported below:

No significant emissions found

Occupied Bandwidth plot

NOTES:

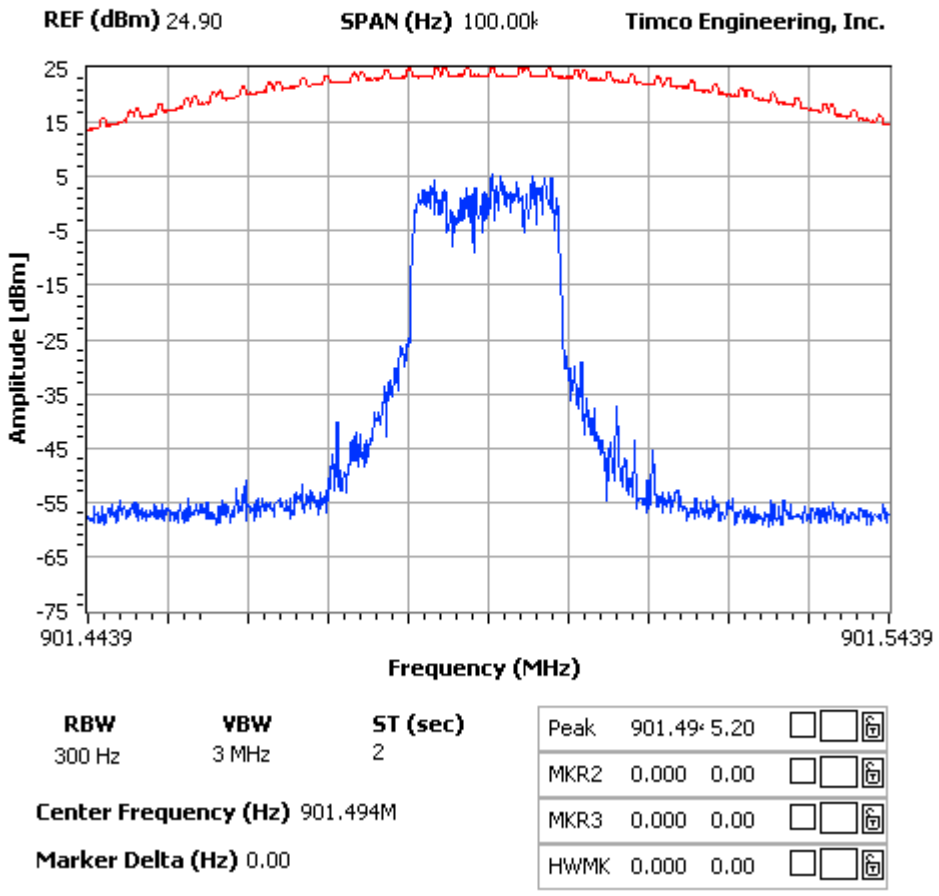
OCCUPIED BANDWIDTH -- Quad-4QAM
MOTOROLA, INC. FL -- FCC ID: AZ489FT5830



Occupied Bandwith Plot

NOTES:

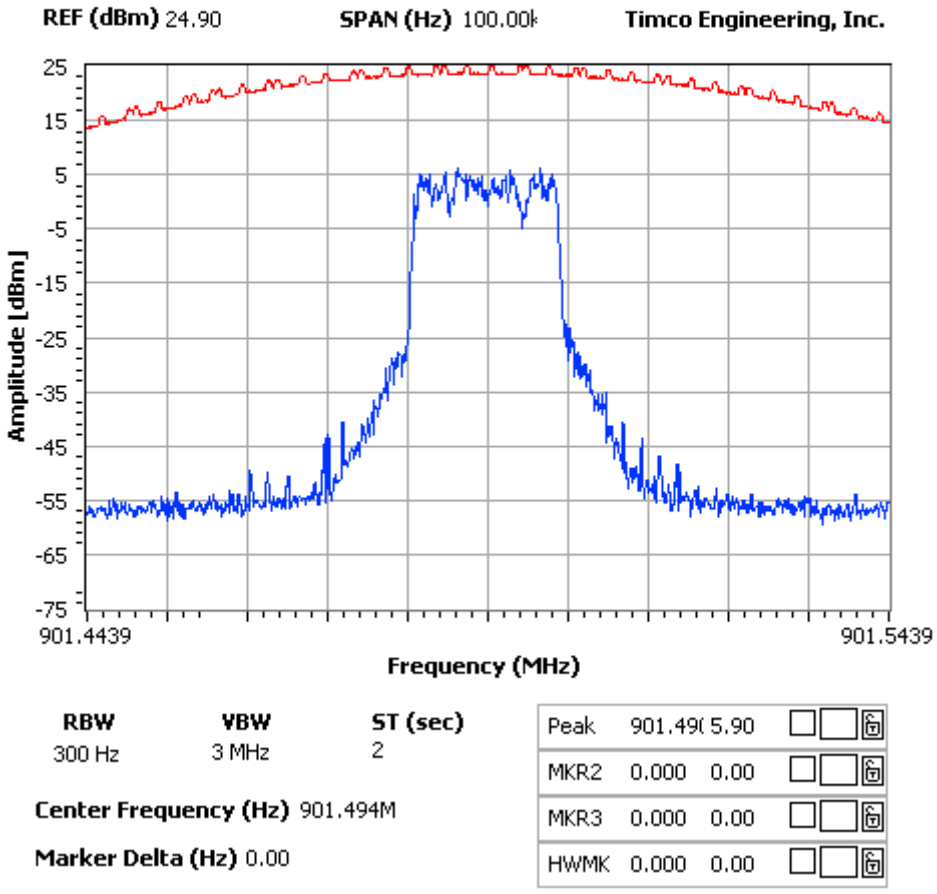
OCCUPIED BANDWIDTH -- Quad-16QAM
MOTOROLA, INC. FL -- FCC ID: AZ489FT5830



Occupied Bandwith Plot

NOTES:

OCCUPIED BANDWIDTH -- Quad-64QAM
MOTOROLA, INC. FL -- FCC ID: AZ489FT5830



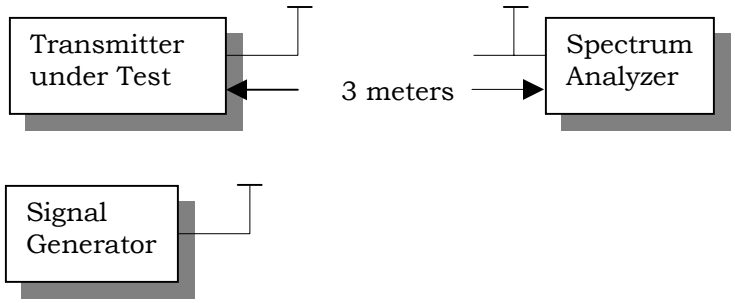
FIELD STRENGTH OF SPURIOUS EMISSIONS

Rules Part No.: Part 2.1053

Requirements: Emissions must be 43 + 10log(Po) dB below the mean power output of the transmitter.

Method of Measurements: The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA Standard 603 using the substitution method. Equipment placed 80 cm above ground on a rotating table platform. Tuned, calibrated antenna which may be raised from 1m to 4m above ground and changed in polarization.

Test Setup Diagram:



Test Data:

Emission Frequency MHz	Ant. Polarity	dB Below Carrier (dBc)
901.50	0	0
1803.00	V	58.7693
2704.50	V	46.841
3606.00	V	57.5528
4507.50	V	NF
5409.00	V	NF
6310.50	V	NF
7212.00	V	NF
8113.50	V	NF
9015.00	V	NF

The worst case channels were tested.