

EXHIBIT 7: MEASUREMENT PROCEDURES – Pursuant 47 CFR 2.947**7.1 RF Power -- Pursuant to 47 CFR 2.947(c), 15.247 (b), RSS-210 A8.4**

Method of Conducted Output Power Measurement: Adaptation of DA 00-705

(Test Conducted at Motorola EME accredited lab in FEB 2015)

The RF output power is not adjustable by the user. The output power is controlled by the radio software. To obtain RF output power reading, the radio was programmed to utilize the maximum output power setting.

7.2 Emission Chart 902 MHz to 928 MHz ISM Band --- pursuant to 47 CFR 15.247(c), RSS-210 A8.5

(Test Conducted at Timco Engineering Inc in FEB 2015)

Please see attached TIMCO ERP Data document (418UT15TestReport_ERP) as part of the package for full test description.

7.3 Radiated Spurious Emissions -- Pursuant to 47 CFR 2.947(b), RSS-210 A8.5

(Test Conducted at MSI EMC accredited Lab in November 2014)

Test Sites:

Open Area Test Site (OATS) of the Motorola EMC Lab, 8000 W Sunrise Blvd, Plantation, Florida 33322 which is accredited to ISO/IEC 25 from the American Association for Laboratory Accreditation (FCC Registration: 91932/Industry Canada: IC3679). The radiated emission testing was performed for maximum power in transmit mode.

Method of Measurement: DA 00-705

The equipment is placed on the turntable and placed in normal transmit mode of operation.

See exhibit 6.4 for a detail description of Frequency Hopping- Non standardized testing method.

7.4 Frequency Stability -- Pursuant to 47 CFR 2.947(c), RSS-210 A8.1

ISM Band: Frequency Error measurement in 902 MHz to 928 MHz ISM band
(Measured in December 2014 MSI Plantation Engineering Lab)

The unit was tested at a transmitter output frequency of 915.525 MHz. A power supply with the capability of toggling between 4.0 V and 3.55 V was used to provide battery voltage to the unit being tested. The units RF output was attached to a spectrum analyzer capable of making an occupied bandwidth measurement with high frequency accuracy.

The measurements were made by soaking the unit tested in an idle mode for the length of time necessary to stabilize transmitter temperature, at least 40 min per temperature. At the end the temperature soak the transmitter was enabled in the ISM band. Frequency deviation from 915.525 MHz was recorded after the transmitter had produced full output power for 10 seconds (as determined manually).

During operation of the transmitter at -30C, 20C, and 50C an attempt was made to determine frequency error caused by changing the supply voltage from 4.0 VDC (nominal) to 3.55 VDC (minimum). The voltage was toggled from nominal to minimum to nominal repeatedly while monitoring frequency.

7.2 Carrier Separation between Hopsets -- Pursuant to 15.247(a), RSS-210 A8.1

(Measured in December 2014 MSI Plantation Engineering Lab)

The carriers within a 900 ISM Band hopset are separated by 500 kHz, and the 20 dB bandwidth of a 900 ISM Band carrier is 25.6 kHz.

The test is setup as shown in Figure 7-2. The spectrum analyzer is setup to capture two adjacent carriers. Transmission in the 900 ISM Band mode is initiated until relevant data is captured.

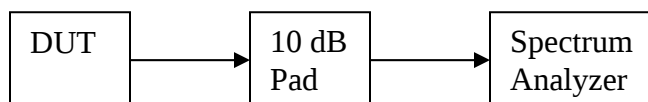


Figure 7-2. Test bench for ISM Band multi-channel measurements.

7.3 Hopping Bandwidth between Hopsets -- Pursuant to 15.247(a), RSS-210 A8.1

(Measured in December 2014 MSI Plantation Engineering Lab)

The aggregate of all 10 hopsets result in an overall carrier separation of 50 kHz with a 20 dB bandwidth of 25.6 kHz.

Step 1. Connect the DUT to the spectrum analyzer as in Figure 7-3.
Step 2. Set up the spectrum analyzer as required to measure the 20 dB bandwidth
Span = 100 kHz
RBW = 300 kHz
Sweep = Auto
Ref. Level = 30 dBm
Trace = Max Hold (RMS Detector used)

Occupied Bandwidth

Step 3. Initiate Transmission until relevant data captured.
Step 4. Set up the spectrum analyzer as required to capture two adjacent carriers.
Span = 150 kHz
RBW = 300 Hz

Sweep = Auto
 Ref. Level = 30 dBm
 Trace = Max Hold
 Use Markers
 Step 5. Initiate Transmission until relevant data captured.

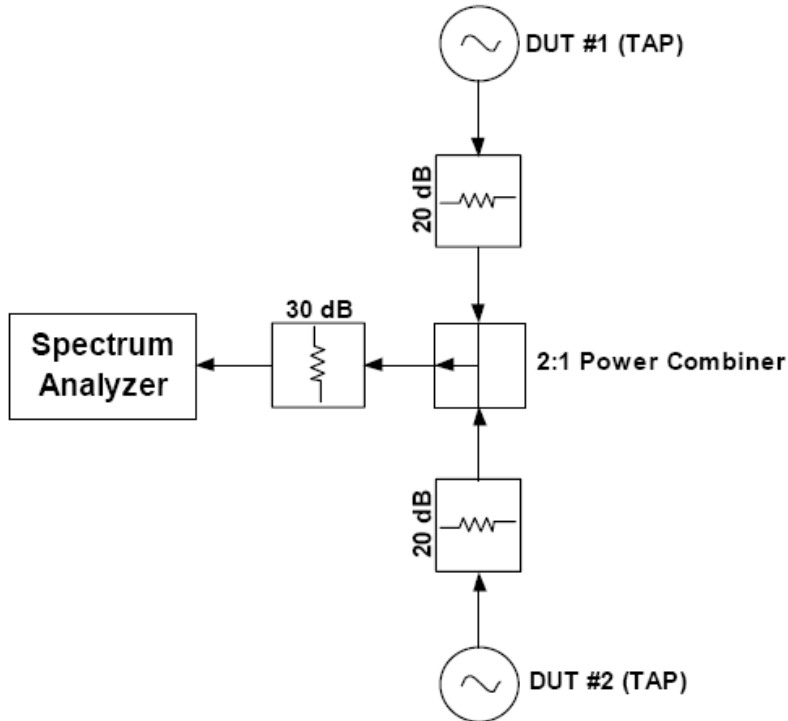


Figure 7-3. Test setup for multi-channel measurements.

7.4 Average Time of Occupancy -- Pursuant to 15.247(a), RSS-210 A8.1

(Measured in December 2014 MSI Plantation Engineering Lab)

Step 1. Set up the spectrum analyzer (or oscilloscope) as required to capture a single transmitted burst (or a continuous stream of bursts at the same frequency).

Step 2. Initiate Transmission until relevant data captured.

Step 3. Measure the duration of the 85.625 ms burst.

Step 4. Describe worst case scenario (continuous transmission).

7.5 Equal Distribution of Hopping Frequencies for Continuous Transmission -- Pursuant to 15.247(a), RSS-210 A8.1

(Measured in December 2014 MSI Plantation Engineering Lab)

Through ISM Band subscriber test-mode software, a frequency counting algorithm was implemented and used to keep count of how many times a particular frequency was used during a continuous transmission with a DUT. From this data, the frequency distribution can be calculated.

7.6 Equal Distribution of Hopping Frequencies for Discontinuous Transmission -- Pursuant to 15.247(a), RSS-210 A8.1

(Measured in December 2014 MSI Plantation Engineering Lab)

Through ISM Band subscriber test-mode software, a frequency counting algorithm was implemented and used to keep count of how many times a particular frequency was used during a transmission with a DUT. To model multiple ISM Band transmission times with the same call length distribution. The frequency distribution was calculated from the data generated.

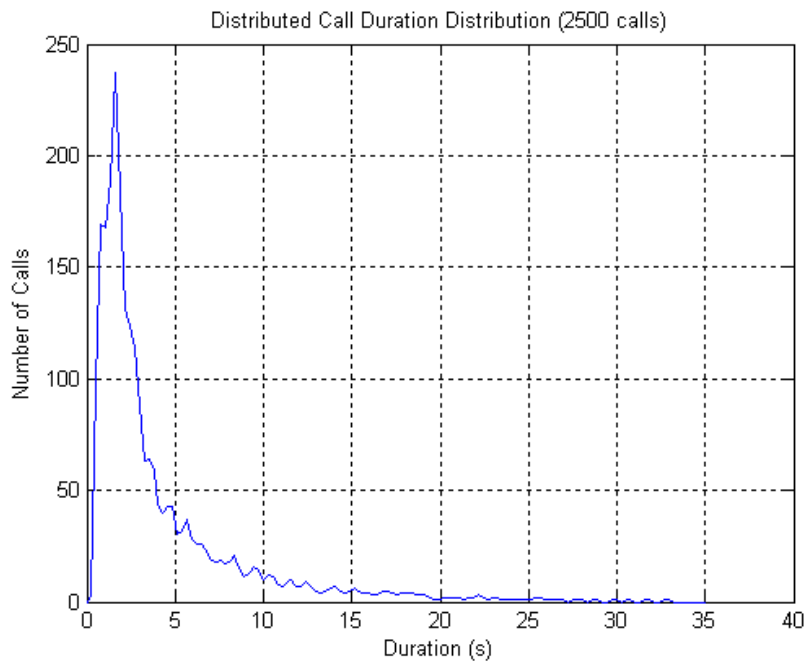


Figure 7-4. Call-length Probability Distribution Function

7.7 Measurement Equipment List ---- 47 CFR 2.947(d)

- The equipments used by MSI EME Lab for data provided for part of exhibit 6 are listed on page 10 of the attached EME test report.
- The equipments used by Timco Engineering Inc for data provided for part of exhibit 6 are listed on page 32 of the attached Timco part 15 subpart B report.
- The following is the list of test equipment in MSI Engineering lab used to generate the part of the data for Exhibit 6.

Equipment	Serial #	Cal Due Date	Cal Period
Rhode & Schwarz FSU Spectrum Analyzer	201130	4/15/2016	1 Year
Agilent E4416A Power Meter	45100742	9/4/15	1 Year
Agilent E9321A Power Sensor	MY44420196	11/14/15	1 Year
Weinschel 20 dB High Pwr Pad	CB8227	9/3/15	1 Year
HP6632B Power Supply	US36351008	3/16/16	1 Year
Rhode & Schwarz Vector Signal Generator	100715	6/14/15	1 Year

Antenna:

Manufacturer Name	Item Name/Description	Item Version/ Model #	Control Number	Asset ID	Serial Number	Calibration Period	Calibration Due Date
A.H. Systems Inc.	DRG Horn Freq. 700MHZ-18GHZ	SAS-571	BBBBC698	NA	511	1 Year	7/30/2015

7.8 Lab and Contact Information

- Motorola Plantation EMC Lab. Certification #91932. Contact: Mac Elliot, 8000 West Sunrise Fl, 33322
- Timco Engineering Inc. Contact: Cory Leverett, 849 NW State Road 45, Newberry FL, 3524725500
- MSI Plantation Engineering Lab. Contact: Branko Avanic, 8000 West Sunrise Fl, 33322