

Nemko Test Report:	2014_272452_FCC_15247_Rev2				
Applicant:	HM Electronics, Inc. 14110 Stowe Drive Poway, CA 92064 USA				
Equipment Under Test: (E.U.T.)	1403				
FCC Identifier:	BYM1403				
IC Identifier:	1860A-1403				
In Accordance With:	FCC Part 15, Subpart C, 15.247 and Industry Canada RSS-210, Issue 8 Frequency Hopping Transmitters				
Tested By:	Nemko USA, Inc. 2210 Faraday Ave. Ste 150 Carlsbad, CA 92008 USA				
TESTED BY: David Light, Wirele	DATE: 21 November 2014 ess Engineer				
APPROVED BY: Tom Tidwell, Nem	DATE: 3 December 2014				

Total Number of Pages: 38

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Section 1. Summary of Test Results

Manufacturer: HM Electronics, Inc.

Model No.: 1403

Serial No.: None

General: All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 and Industry Canada RSS-210, Issue 8 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted is accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC and Industry Canada.

New Submission	Production Unit
Class II Permissive Change	Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a) / RSS-Gen 7.2.4	NA
Channel Separation	15.247(a)(1) / RSS-210 A8.1(b)	Complies
Time of Occupancy	15.247(a)(1) / RSS-210 A8.1(d)	Complies
20 dB Occupied Bandwidth	15.247(a)(1) / RSS-210 A8.1(a)	Complies
Peak Power Output	15.247(b) / RSS-210 A8.4(2)	Complies
Spurious Emissions (Conducted)	15.247(d) / RSS-210 A8.5	Complies
Spurious Emissions (Radiated)	15.247(d) / RSS-Gen 7.2.2	Complies

Footnotes:

The EUT is powered by a 3.7 V lithium battery.

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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Section 2. Equipment Under Test (E.U.T.)

General Equipment Information Frequency Band: □ 902 − 928 MHz □ 2400 − 2483.5 MHz □ 5725 − 5850 MHz Operating Frequency Range: 2401.92 to 2481.408 MHz Number of Channels: 47 Channel Spacing: 1.72 MHz User Frequency Adjustment: Software controlled Software Version Ver. 2.10

Description of EUT

The 1403 is a 2.4 GHz FHSS wireless, belt worn transceiver designed to operate with a base station transceiver.

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Section 3. Channel Separation

NAME OF TEST: Channel Separation PARA. NO.: 15.247(a)(1)

TESTED BY: David Light DATE: 21 Nov. 2014

Test Results: Complies.

Measurement Data: See 20 dB BW plot

Measured 20 dB bandwidth: 1.28 MHz Channel Separation: 1.72 MHz

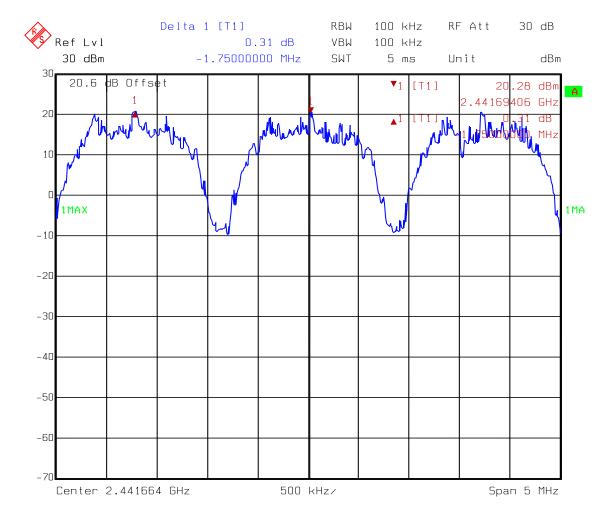
Equipment Used: 1036

Measurement Uncertainty: 1X10⁻⁷ppm

Temperature: 20 °C

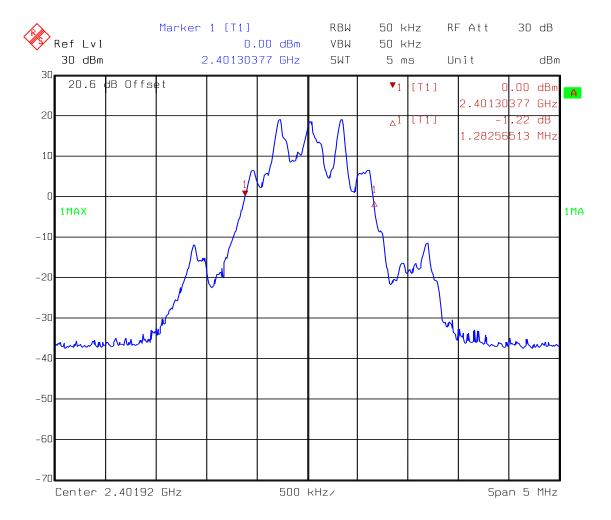
Relative Humidity: 30 %

Test Data – Channel Separation



Test Data - 20 dB Bandwidth

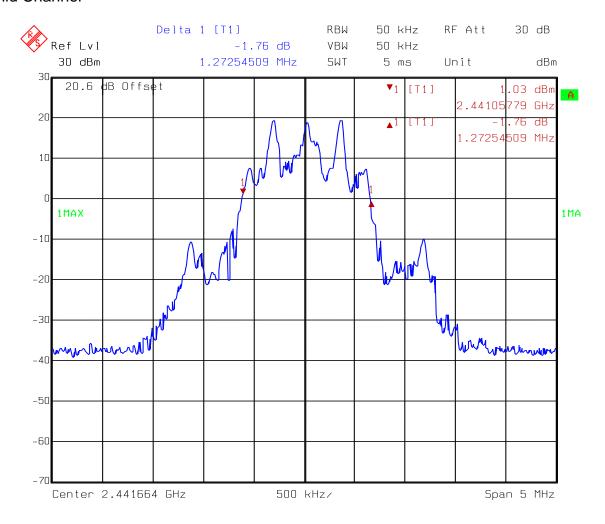
Low Channel



PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data - 20 dB Bandwidth

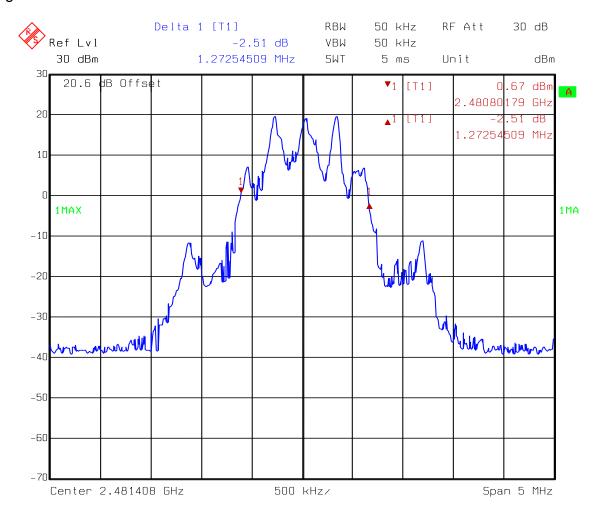
Mid Channel



PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data - 20 dB Bandwidth

High Channel



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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Section 4. Time of Occupancy

NAME OF TEST: Time of Occupancy PARA. NO.: 15.247(a)(1)

TESTED BY: David Light DATE: 21 Nov. 2014

Test Results: Complies.

Measurement Data:

Maximum Dwell Time On Any Channel: 16.64 ms in 19 seconds

Equipment Used: 1036

Measurement Uncertainty: 1X10⁻⁷ppm

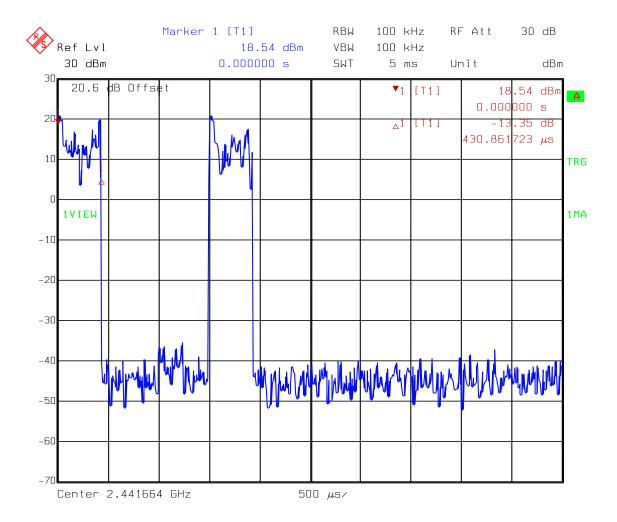
Temperature: 20 °C

Relative Humidity: 30 %

PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Time of Occupancy

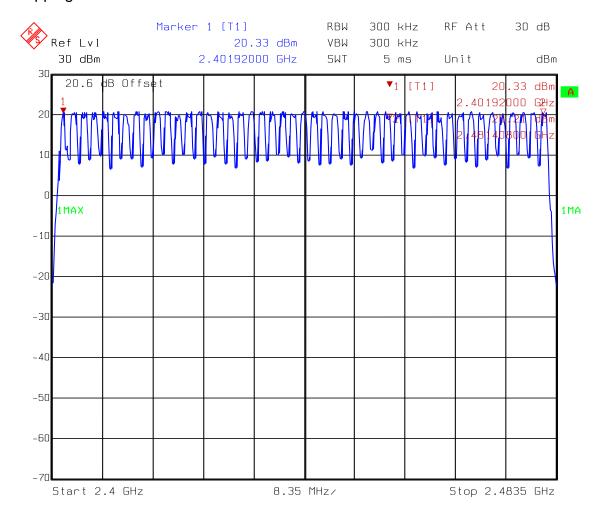
Hop time = $431 \mu s \times 2 = 862 \mu s$



EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Time of Occupancy

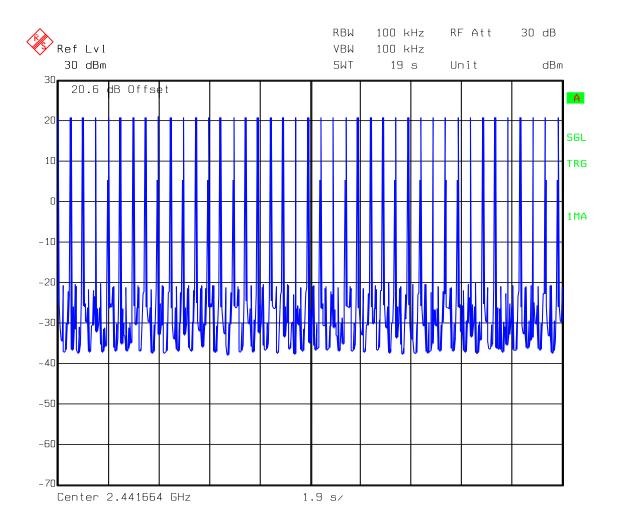
47 Hopping channels



FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Time of Occupancy

 $41 \times 862 \, \mu s = 35.3 \, ms$



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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Section 5. Peak Power Output

NAME OF TEST: Peak Power Output PARA. NO.: 15.247 (b)

TESTED BY: David Light DATE: 21 Nov. 2014

Test Results: Complies.

Measurement Data: See attached plots.

Frequency (MHz)	Peak Power (dBm)	Peak Power (mW)	Antenna Type	Gain (dBi)	E.I.R.P. (dBm)	E.I.R.P. (mW)	
2401.9	19.0	79.4	Inverted F	2.0	21.0	125.9	
2441.6	19.4	87.1	Inverted F	2.0	21.4	138.0	
2481.4	19.4	87.1	Inverted F	2.0	21.4	138.0	
Maximum El	Maximum EIRP (W): 0.138						

\boxtimes	This device was tested at +/-	15% input power pe	er 15.31(e),	with no v	variation in
	output power.				

For battery powered equipment, the device was tested with a fresh battery per 15.31(e).

The device was tested on three channels per 15.31(l).

This test was performed radiated.

Equipment Used: 1036

Measurement Uncertainty: 1.7 dB

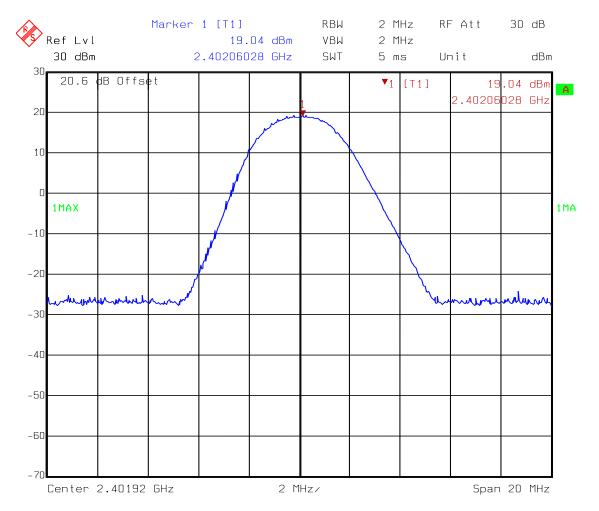
Temperature: 20 °C

Relative Humidity: 30 %

Detector Function = PEAK

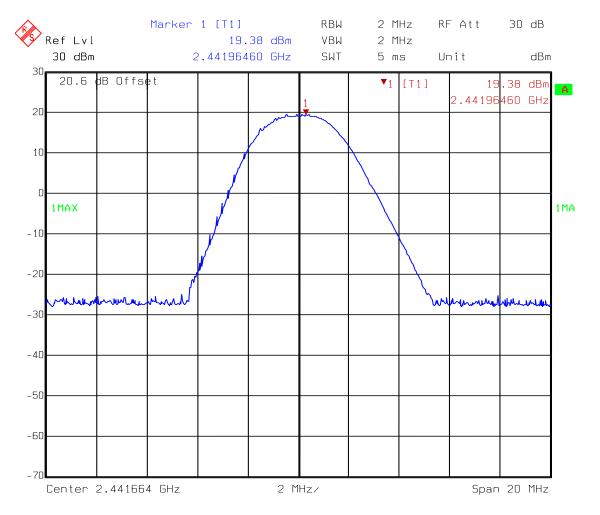
PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Peak Power Output



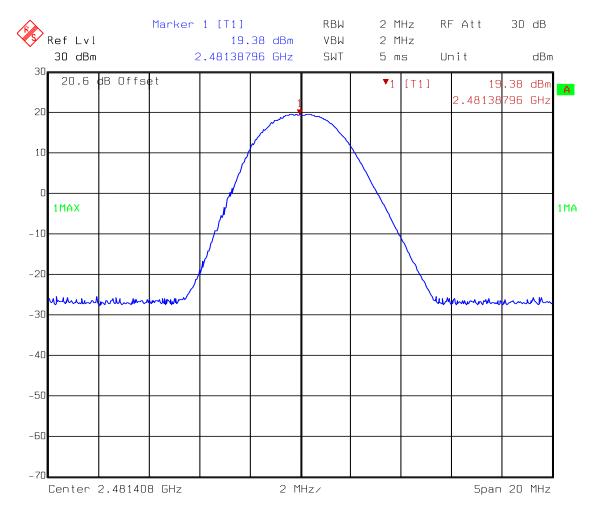
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Test Data – Peak Power Output



PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Peak Power Output



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Section 6. Spurious Emissions (Conducted)

NAME OF TEST: Spurious Emissions (Conducted) PARA. NO.: 15.247(d)

TESTED BY: David Light DATE: 21 Nov. 2014

Test Results: Complies.

Measurement Data: See attached plots.

Equipment Used: 1036

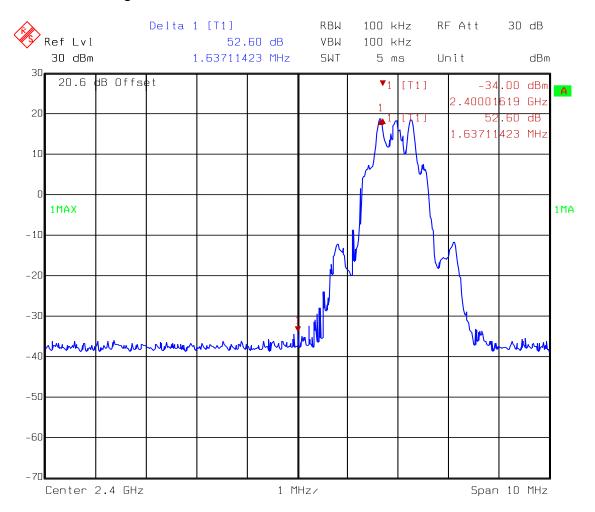
Measurement Uncertainty: 1X10⁻⁷ppm

Temperature: 20 °C

Relative Humidity: 30 %

Test Data - Spurious Emissions at Antenna Terminals

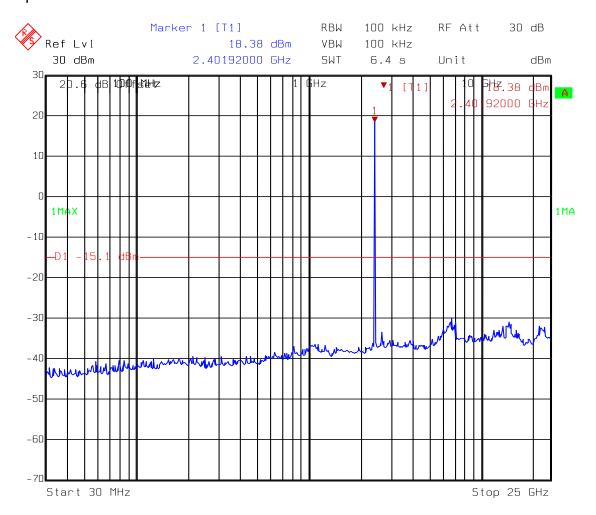
Lower Band Edge



EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Test Data – Spurious Emissions at Antenna Terminals

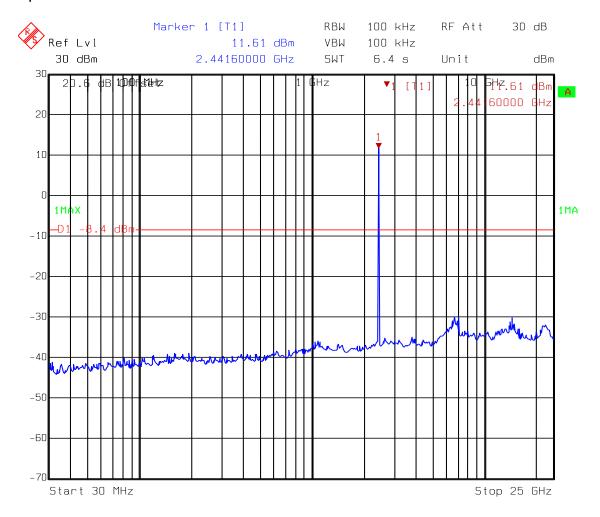
Spurs - Low Channel



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Test Data – Spurious Emissions at Antenna Terminals

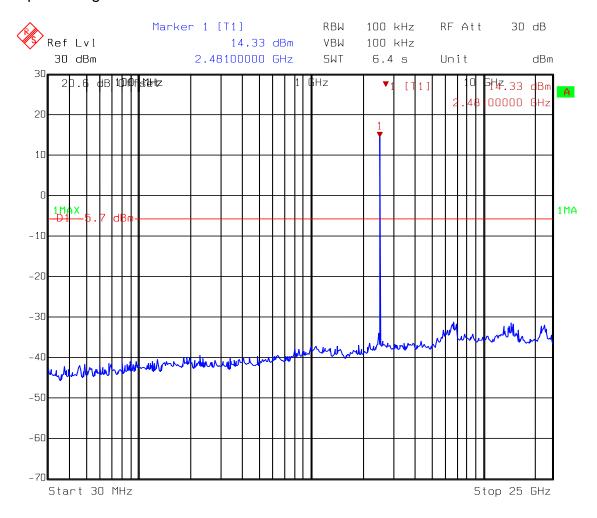
Spurs - Mid Channel



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Test Data - Spurious Emissions at Antenna Terminals

Spurs - High Channel



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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

Section 7. Spurious Emissions (Radiated)

NAME OF TEST: Spurious Emissions (Radiated)	PARA. NO.: 15.247(d)
TESTED BY: David Light	DATE: 21 Nov. 2014

Test Results: Complies. The worst case emission was 51.5 dBμV/m

at 2483.5 MHz. This is 2.5 dB below the specification

limit of 54 dBµV/m.

Measurement Data: See attached table.

Duty Cycle Calculation:

Duty Cycle correction factor(dB) = $20 \log (rf_{ON} \text{ in ms}/100\text{ms})$

Notes:

For handheld devices, the EUT was tested on three orthogonal axis'

The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33

The device was tested on three channels per 15.31(I).

No emissions were detected within 20 dB of the specification limit therefore none are reported per 15.31(o). Band edge data is presented below.

Equipment Used: E1029-911-901-752-1763

Measurement Uncertainty: $\pm \frac{+}{3.6}$ dB

Temperature: 21 °C

Relative Humidity: 28 %

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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

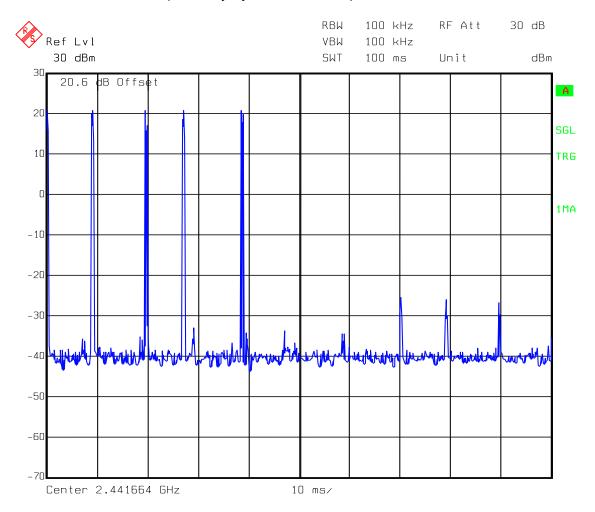
Test Data - Radiated Emissions

Meas.	Ant.	Duty	Meter	Antenna	Path	RF	Corrected	Spec.	CR/SL	Pass	
Freq.	Pol.	Cycle	Reading	Factor	Loss	Gain	Reading	limit	Diff.	Fail	
(MHz)	(H/V)	(dB)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Unc.	Comment
											Highest channel
2483.500	Н	0.0	80.0	28.7	9.4	45.4	72.7	74.0	-1.3	Unc.	
2483.500	Н	-20.0	80.0	28.7	9.4	45.4	52.7	54.0	-1.3	Unc.	
2483.500	V	0.0	79.0	28.7	9.4	45.4	71.7	74.0	-2.3	Pass	
2483.500	V	-20.0	79.0	28.7	9.4	45.4	51.7	54.0	-2.3	Pass	

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Test Data - Radiated Emissions

Transmit time in 100 mS (For duty cycle calculation)



 $862 \mu s \times 5 = 4.31 ms$

Duty Cycle = $20 \log (4.31/100) = -27.3 dB$

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Section 8. Test Equipment List

Asset Tag	Description	Manufacturer	Model	Last Cal	Next Cal
752	Antenna,	EMCO	3115	19-Feb-2014	19-Feb-2015
	DRWG				
902	pre amp	Sonoma	310 N	08-Aug-2014	08-Aug-2015
911	Spectrum	Agilent	E4440A	21-Jan-2014	21-Jan-2015
	Analyzer				
E1029	Preamplifier	A.H. Systems,	PAM-0118	12-Aug-2014	12-Aug-2015
	(20MHz to	Inc.			
	18GHz)				
1036	Spectrum	Rohde &	FSEK30	15-Jul-2013	15-Jul-2015
	Analyzer	Schwartz			
1763	Antenna,	Schaffner	CBL 6111D	13-May-2014	13-May-2015
	Bilog				

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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

ANNEX A - TEST DETAILS

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Channel Separation PARA. NO.: 15.247(a)(1)

RSS-210 A8.1(b)

Minimum Standard:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Time of Occupancy PARA. NO.: 15.247(a)(1)

RSS-210 A8.1(d)

Minimum Standard:

Frequency Band	20 dB	No. of	Average Time of Occupancy
(MHz)	Bandwidth	Hopping	
		Channels	
902 - 928	<250 kHz	50	=<0.4 sec. in 20 sec.
902 – 928	=>250 kHz	25	=<0.4 sec. in 10 sec.
			=<0.4 sec. in 0.4 seconds
2400 - 2483.5		75	multiplied by the number of
			hopping channels employed.
5725 – 5850		75	=<0.4 sec. in 30 sec.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW: 1 MHz VBW: = RBW Span: 0 Hz

LOG dB/div.: 10 dB

Sweep: Sufficient to see one hop time sequence.

Trigger: Video

The occupancy time of one hop is measured as above. The average time of occupancy is calculated over the appropriate period of time from above table

Avg. time of occupancy = (period from table/duration of one hop)/no. of channels multiplied by the duration of one hop.

For instance:

If a 2.4 GHz system has a measured hop duration time of 1 msec. and uses 75 channels, then the average time of occupancy would be:

(30 sec./.001 sec.)/75 chan. = 400 x 1 msec. = 400 msec. or 0.4 sec. in 30 sec.

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Occupied Bandwidth PARA. NO.: 15.247(a)(1)

RSS-210 A8.1(a)

Minimum Standard:

Frequency Band (MHz)	Maximum 20 dB Bandwidth
902 - 928	500 kHz
2400 – 2483.5	Not defined
5725 – 5850	1 MHz

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW: At least 1% of span/div.

VBW: >RBW

Span: Sufficient to display 20 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Peak Power Output PARA. NO.: 15.247(b)

RSS-210 A8.4(2)

Minimum Standard:

Frequency	No. of	Maximum Peak
Band	Hopping	Power Output at
(MHz)	Channels	Antenna Port
902 - 928	at least 50	1 watt
902 – 928	25 - 49	0.25 watts
2400 –	75	1 watt
2483.5		
5725 – 5850	75	1 watt

If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Direct Measurement Method For Detachable Antennas:

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

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Calculation Of EIRP For Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

The RBW of the spectrum analyzer shall be set to a value greater than the measured 20 dB occupied bandwidth of the E.U.T.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Spurious Emissions at Antenna Terminals PARA. NO.: 15.247(d)

RSS-210 A8.5

Minimum Standard: In any 100kHz bandwidth outside the frequency band in which the

transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the

restricted bands of 15.205 shall not exceed the following field

strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

Method Of Measurement:

30 MHz - 10th harmonic plot

RBW: 100 kHz VBW: 300 kHz Sweep: Auto Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level below center frequency.

Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level above center frequency.

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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FREQUENCY HOPPING SPREAD SPECTRUM TRANSMITTER

EQUIPMENT: 1403 PROJECT NO.: 2014_272452_FCC_15247_rev2

NAME OF TEST: Radiated Spurious Emissions PARA. NO.: 15.247(d)

RSS-Gen 7.2.2

Minimum Standard: Emissions falling in the restricted bands shall not

exceed the following field strength limits:

Frequency (MHz)	Field Strength (μV/m @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

15.205 Restricted Bands

MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

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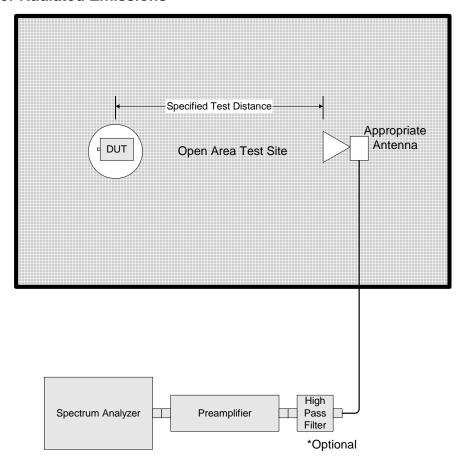
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EQUIPMENT: 1403

ANNEX B - TEST DIAGRAMS

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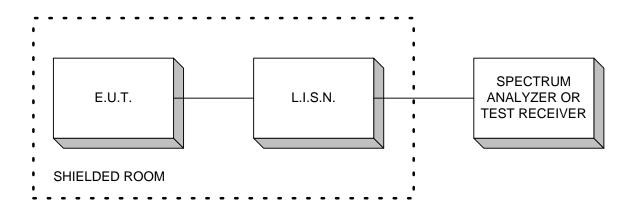
Test Site For Radiated Emissions



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Conducted Emissions

EQUIPMENT: 1403



Measurements at Antenna Terminals

