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Electromagnetic Emissions Test Report Application for Grant of Equipment Authorization pursuant to Industry Canada RSS-Gen Issue 2 / RSS 210 Issue 7 FCC Part 15, Subpart E on the Ruckus Wireless Transmitter Model: 7962

> UPN: 5912A-7962 S9G7962 FCC ID:

**GRANTEE**: **Ruckus Wireless** 880 West Maude Ave. Suite 101 Sunnyvale, CA 94085

TEST SITE(S): **Elliott Laboratories** 684 W. Maude Ave Sunnyvale, CA 94086

IC Site Registration #: IC 2845A-1; IC 2845A-2

REPORT DATE:

March 2, 2009

FINAL TEST DATE:

February 9, February 10, February 11 and February 19, 2009

**AUTHORIZED SIGNATORY:** 

Mark E. Hill Staff Engineer



Testing Cert #2016-01

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# **REVISION HISTORY**

Rev #	Date	Comments	Modified By
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# SCOPE

An electromagnetic emissions test has been performed on the Ruckus Wireless model 7962 pursuant to the following rules:

Industry Canada RSS-Gen Issue 2 RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment" FCC Part 15, Subpart E requirements for UNII Devices (using FCC DA 02-2138, August 30, 2002)

Conducted and radiated emissions data has been collected, reduced, and analyzed within this report in accordance with measurement guidelines set forth in the following reference standards and as outlined in Elliott Laboratories test procedures:

ANSI C63.4:2003 FCC UNII test procedure 2002-08 DA-02-2138, August 2002

The intentional radiator above has been tested in a simulated typical installation to demonstrate compliance with the relevant Industry Canada performance and procedural standards.

Final system data was gathered in a mode that tended to maximize emissions by varying orientation of EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

Every practical effort was made to perform an impartial test using appropriate test equipment of known calibration. All pertinent factors have been applied to reach the determination of compliance.

The test results recorded herein are based on a single type test of the Ruckus Wireless model 7962 and therefore apply only to the tested sample. The sample was selected and prepared by Craig Owens of Ruckus Wireless.

# **OBJECTIVE**

The primary objective of the manufacturer is compliance with the regulations outlined in the previous section.

Prior to marketing in the USA, all unlicensed transmitters and transceivers require certification. Receive-only devices operating between 30 MHz and 960 MHz are subject to either certification or a manufacturer's declaration of conformity, with all other receive-only devices exempt from the technical requirements.

Prior to marketing in Canada, Class I transmitters, receivers and transceivers require certification. Class II devices are required to meet the appropriate technical requirements but are exempt from certification requirements.

Certification is a procedure where the manufacturer submits test data and technical information to a certification body and receives a certificate or grant of equipment authorization upon successful completion of the certification body's review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

# STATEMENT OF COMPLIANCE

The tested sample of Ruckus Wireless model 7962 complied with the requirements of the following regulations:

RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment" FCC Part 15, Subpart E requirements for UNII Devices

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

# TEST RESULTS SUMMARY

## UNII / LELAN DEVICES

# **Operation in the 5.15 – 5.25 GHz Band**

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.407(e)		Indoor operation only	Refer to user's manual	N/A	Complies
15.407(a) (1)		26dB Bandwidth	802.11a 33.2 MHz 802.11 HT20 26.3 MHz 802.11 HT40 51.3 MHz	N/A – limits output power if < 20MHz	N/A
15.407 (a) (1)	A9.2(1)	Output Power	802.11a 16.5 dBm (0.045W) 802.11 HT20 16.2 dBm (0.042W) 802.11 HT40 16.3 dBm (0.043)	17dBm	Complies
15.407 (a) (1)		Power Spectral	802.11a 2.5 dBm/MHz 802.11 HT20 3.9 dBm/MHz 802.11 HT40 0.4 dBm/MHz	4 dBm/MHz	Complies
	A9.5 (2)	Density	802.11a 2.5 dBm/MHz 802.11 HT20 3.9 dBm/MHz 802.11 HT40 0.4 dBm/MHz	7 dBm/MHz	Complies

	rements for all		34 1371 /	<b>T</b> • • •	
FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
	A9.5a	Modulation	Digital Modulation is used	Digital modulation is required	Complies
	RSP 100	99% bandwidth	802.11a 19.1 MHz 802.11 HT20 18.9 MHz 802.11 HT40 37.2 MHz	Information only	
15.407(b) (5) / 15.209	A9.3	Spurious Emissions below 1GHz	No emissions below 1GHz	Refer to Standard	Complies
15.407(b) (2)	A9.3	Spurious Emissions above 1GHz	53.9dBµV/m @ 5150.0MHz (-0.1dB)	Refer to Standard	Complies
15.407(a)(6 )	-	Peak Excursion Ratio	12.9dB	< 13dB	Complies
	A9.5 (3)	Channel Selection	Spurious emissions tested at outermost channels in each band	Device was tested on the top, bottom and center channels	N/A
15			Measurements on three channels in each band	in each band	
15.407 (c)	A9.5(4)	Operation in the absence of information to transmit	Operation is discontinued in the absence of information	Device shall automatically discontinue operation in the absence of information to transmit	Complies
15.407 (g)	A9.5 (5)	Frequency Stability	Frequency stability is better than 10ppm		Complies
	A9.7	User Manual information	Refer to Exhibit 6 for details		Complies

FCC Rule	RSS		Measured Value /	Limit /	Result
Part	Rule part	Description	Comments	Requirement	(margin)
15.203	-	RF Connector	All antennas are internal		Complies
15.109	RSS GEN 7.2.3 Table 1	Receiver spurious emissions	50.9dBµV/m @ 7066.7MHz	Refer to standard	Complies
15.207	RSS GEN Table 2	AC Conducted Emissions	52.6dBµV @ 13.853MHz (-7.4dB)	Refer to standard	Complies (- ?.? dB)
15.247 (b) (5) 15.407 (f)	RSS 102	RF Exposure Requirements	Refer to MPE calculations in Exhibit 11, RSS 102 declaration and User Manual statements.	Refer to OET 65, FCC Part 1 and RSS 102	Complies
	RSP 100 RSS GEN 7.1.5	User Manual		Statement required regarding non- interference	
	RSP 100 RSS GEN 7.1.5	User Manual		Statement required regarding detachable antenna	

# MEASUREMENT UNCERTAINTIES

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with UKAS document LAB 34.

Measurement Type	Frequency Range (MHz)	Calculated Uncertainty (dB)
Conducted Emissions Radiated Emissions Radiated Emissions Radiated Emissions	0.15 to 30 0.015 to 30 30 to 1000 1000 to 40000	$\pm 2.4 \\ \pm 3.0 \\ \pm 3.6 \\ \pm 6.0$

# EQUIPMENT UNDER TEST (EUT) DETAILS

#### GENERAL

The Ruckus Wireless model 7962 is an Access Point that is designed to distribute WiFi. Since the EUT would be placed on a table top during operation, the EUT was treated as table-top equipment during testing to simulate the end-user environment. The electrical rating of the EUT is 120/230 Volts, 50/60 Hz, 0.5 Amps. The EUT can also be powered over the POE port.

The sample was received on November 13, 2008 and tested on February 9, February 10, February 11 and February 19, 2009. The EUT consisted of the following component(s):

Manufacturer	Model	Description	Serial Number	FCC ID
Ruckus Wireless,	7962	802.11a/b/g/n	0901000003	S9G7962
Inc.		Access Point		

#### OTHER EUT DETAILS

The following power supplies are supported in addition to any PoE injector or switch. Ruckus does not supply the PoE supply.

DVE S024EU1200150 Power Supply -	-
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#### ANTENNA SYSTEM

The antenna is integral to the device.

#### **ENCLOSURE**

The EUT enclosure is primarily constructed of plastic. It measures approximately 19 cm wide by 15 cm deep by 10 cm high.

#### **MODIFICATIONS**

The EUT did not require modifications during testing in order to comply with emissions specifications.

#### SUPPORT EQUIPMENT

No equipment was used as local support equipment for emissions testing.

The following equipment was used as remote support equipment for emissions testing:

Manufacturer	Model	Description	Serial Number	FCC ID
Dell	-	Laptop Computer	-	DoC

# EUT INTERFACE PORTS

The I/O cabling configuration during emissions testing was as follows:

Port	Connected To	Cable(s)			
Fon		Description	Shielded or Unshielded	Length(m)	
Ethernet	Laptop	CAT5	Unshielded	3m	
DC Power	AC/DC Adapter	Multiconductor	Shielded	1.5	

# EUT OPERATION

During transmit mode testing, the EUT was set to continuously transmit at the desired channel, power, and mode. For receive mode testing, the EUT was configured in a receive only mode.

# TEST SITE

# GENERAL INFORMATION

Final test measurements were taken on February 9, February 10, February 11 and February 19, 2009 at the test sites listed below. Pursuant to section 2.948 of the FCC's Rules and section 3.3 of RSP-100, construction, calibration, and equipment data has been filed with the Commission and with industry Canada.

Site	Registratio	n Numbers	Location
Site	FCC	Canada	
SVOATS #1	90592	IC 2845-1	684 West Maude Ave,
SVOATS #2	90593	IC 2845-2	Sunnyvale CA 94085-3518

ANSI C63.4:2003 recommends that ambient noise at the test site be at least 6 dB below the allowable limits. Ambient levels are below this requirement with the exception, on OATS sites, of predictable local TV, radio, and mobile communications traffic. The test site(s) contain separate areas for radiated and conducted emissions testing. Considerable engineering effort has been expended to ensure that the facilities conform to all pertinent requirements of ANSI C63.4:2003.

# CONDUCTED EMISSIONS CONSIDERATIONS

Conducted emissions testing is performed in conformance with ANSI C63.4:2003. Measurements are made with the EUT connected to the public power network through a nominal, standardized RF impedance, which is provided by a line impedance stabilization network, known as a LISN. A LISN is inserted in series with each current-carrying conductor in the EUT power cord.

# RADIATED EMISSIONS CONSIDERATIONS

The FCC has determined that radiation measurements made in a shielded enclosure are not suitable for determining levels of radiated emissions. Radiated measurements are performed in an open field environment or in a semi-anechoic chamber. The test sites are maintained free of conductive objects within the CISPR defined elliptical area incorporated in ANSI C63.4:2003 guidelines and meet the Normalized Site Attenuation (NSA) requirements of ANSI C63.4:2003.

# MEASUREMENT INSTRUMENTATION

# RECEIVER SYSTEM

An EMI receiver as specified in CISPR 16-1 is used for emissions measurements. The receivers used can measure over the frequency range of 9 kHz up to 2000 MHz. These receivers allow both ease of measurement and high accuracy to be achieved. The receivers have Peak, Average, and CISPR (Quasi-peak) detectors built into their design so no external adapters are necessary. The receiver automatically sets the required bandwidth for the CISPR detector used during measurements. If the repetition frequency of the signal being measured is below 20Hz, peak measurements are made in lieu of Quasi-Peak measurements.

For measurements above the frequency range of the receivers, a spectrum analyzer is utilized because it provides visibility of the entire spectrum along with the precision and versatility required to support engineering analysis. Average measurements above 1000MHz are performed on the spectrum analyzer using the linear-average method with a resolution bandwidth of 1 MHz and a video bandwidth of 10 Hz, unless the signal is pulsed in which case the average (or video) bandwidth of the measuring instrument is reduced to onset of pulse desensitization and then increased.

## INSTRUMENT CONTROL COMPUTER

The receivers utilize either a Rohde & Schwarz EZM Spectrum Monitor/Controller or contain an internal Spectrum Monitor/Controller to view and convert the receiver measurements to the field strength at an antenna or voltage developed at the LISN measurement port, which is then compared directly with the appropriate specification limit. This provides faster, more accurate readings by performing the conversions described under Sample Calculations within the Test Procedures section of this report. Results are printed in a graphic and/or tabular format, as appropriate. A personal computer is used to record all measurements made with the receivers.

The Spectrum Monitor provides a visual display of the signal being measured. In addition, the controller or a personal computer run automated data collection programs which control the receivers. This provides added accuracy since all site correction factors, such as cable loss and antenna factors are added automatically.

# LINE IMPEDANCE STABILIZATION NETWORK (LISN)

Line conducted measurements utilize a fifty microhenry Line Impedance Stabilization Network as the monitoring point. The LISN used also contains a 250 uH CISPR adapter. This network provides for calibrated radio frequency noise measurements by the design of the internal low pass and high pass filters on the EUT and measurement ports, respectively.

## FILTERS/ATTENUATORS

External filters and precision attenuators are often connected between the receiving antenna or LISN and the receiver. This eliminates saturation effects and non-linear operation due to high amplitude transient events.

#### ANTENNAS

A loop antenna is used below 30 MHz. For the measurement range 30 MHz to 1000 MHz either a combination of a biconical antenna and a log periodic or a bi-log antenna is used. Above 1000 MHz, horn antennas are used. The antenna calibration factors to convert the received voltage to an electric field strength are included with appropriate cable loss and amplifier gain factors to determine an overall site factor, which is then programmed into the test receivers or incorporated into the test software.

## ANTENNA MAST AND EQUIPMENT TURNTABLE

The antennas used to measure the radiated electric field strength are mounted on a nonconductive antenna mast equipped with a motor-drive to vary the antenna height. Measurements below 30 MHz are made with the loop antenna at a fixed height of 1m above the ground plane.

ANSI C63.4:2003 specifies that the test height above ground for table mounted devices shall be 80 centimeters. Floor mounted equipment shall be placed on the ground plane if the device is normally used on a conductive floor or separated from the ground plane by insulating material from 3 to 12 mm if the device is normally used on a non-conductive floor. During radiated measurements, the EUT is positioned on a motorized turntable in conformance with this requirement.

#### INSTRUMENT CALIBRATION

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

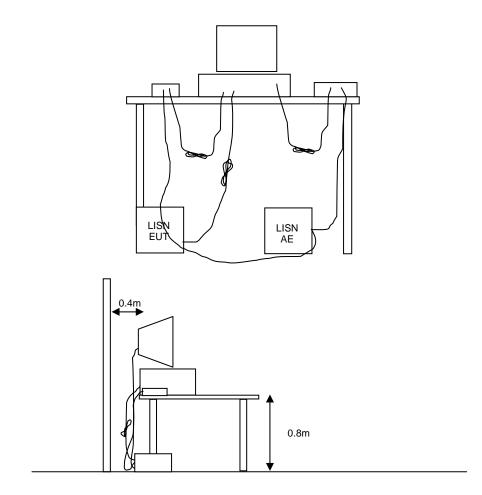
# **TEST PROCEDURES**

# EUT AND CABLE PLACEMENT

The regulations require that interconnecting cables be connected to the available ports of the unit and that the placement of the unit and the attached cables simulate the worst case orientation that can be expected from a typical installation, so far as practicable. To this end, the position of the unit and associated cabling is varied within the guidelines of ANSI C63.4:2003, and the worst-case orientation is used for final measurements.

# CONDUCTED EMISSIONS

Conducted emissions are measured at the plug end of the power cord supplied with the EUT. Excess power cord length is wrapped in a bundle between 30 and 40 centimeters in length near the center of the cord. Preliminary measurements are made to determine the highest amplitude emission relative to the specification limit for all the modes of operation. Placement of system components and varying of cable positions are performed in each mode. A final peak mode scan is then performed in the position and mode for which the highest emission was noted on all current carrying conductors of the power cord.



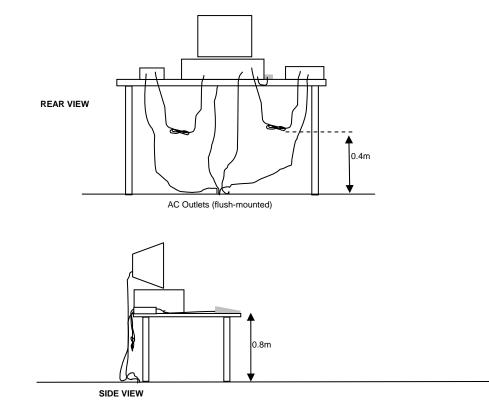
#### RADIATED EMISSIONS

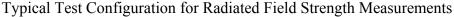
A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). During the preliminary scans, the EUT is rotated through 360°, the antenna height is varied (for measurements above 30 MHz) and cable positions are varied to determine the highest emission relative to the limit. Preliminary scans may be performed in a fully anechoic chamber for the purposes of identifying the frequencies of the highest emissions from the EUT.

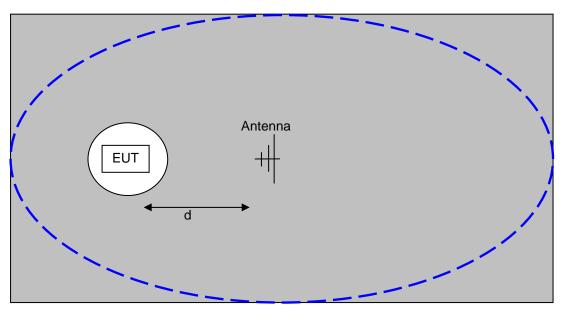
A speaker is provided in the receiver to aid in discriminating between EUT and ambient emissions. Other methods used during the preliminary scan for EUT emissions involve scanning with near field magnetic loops, monitoring I/O cables with RF current clamps, and cycling power to the EUT.

Final maximization is a phase in which the highest amplitude emissions identified in the spectral search are viewed while the EUT azimuth angle is varied from 0 to 360 degrees relative to the receiving antenna. The azimuth, which results in the highest emission is then maintained while varying the antenna height from one to four meters (for measurements above 30 MHz, measurements below 30 MHz are made with the loop antenna at a fixed height of 1m). The result is the identification of the highest amplitude for each of the highest peaks. Each recorded level is corrected in the receiver using appropriate factors for cables, connectors, antennas, and preamplifier gain.

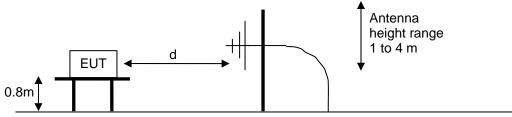
When testing above 18 GHz, the receive antenna is located at 1 meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.







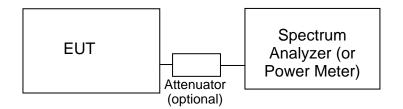
The ground plane extends beyond the ellipse defined in CISPR 16 / CISPR 22 / ANSI C63.4 and is large enough to accommodate test distances (d) of 3m and 10m. Refer to the test data tables for the actual measurement distance.



# Test Configuration for Radiated Field Strength Measurements OATS- Plan and Side Views

# CONDUCTED EMISSIONS FROM ANTENNA PORT

Direct measurements of power, bandwidth and power spectral density are performed, where possible, with the antenna port of the EUT connected to either the power meter or spectrum analyzer via a suitable attenuator and/or filter. These are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission.



# Test Configuration for Antenna Port Measurements

Measurement bandwidths (video and resolution) are set in accordance with the relevant standards and Elliott's test procedures for the type of radio being tested. When power measurements are made using a resolution bandwidth less than the signal bandwidth the power is calculated by summing the power across the signal bandwidth using either the analyzer channel power function or by capturing the trace data and calculating the power using software. In both cases the summed power is corrected to account for the equivalent noise bandwidth (ENBW) of the resolution bandwidth used.

If power averaging is used (typically for certain digital modulation techniques), the EUT is configured to transmit continuously. Power averaging is performed using either the built-in function of the analyzer or, if the analyzer does not feature power averaging, using external software. In both cases the average power is calculated over a number of sweeps (typically 100). When the EUT cannot be configured to continuously transmit then either the analyzer is configured to perform a gated sweep to ensure that the power is averaged over periods that the device is transmitting or power averaging is disabled and a max-hold feature is used.

If a power meter is used to make output power measurements the sensor head type (peak or average) is stated in the test data table.

#### BANDWIDTH MEASUREMENTS

The 6dB, 20dB and/or 26dB signal bandwidth is measured in using the bandwidths recommended by ANSI C63.4. When required, the 99% bandwidth is measured using the methods detailed in RSS GEN.

# SPECIFICATION LIMITS AND SAMPLE CALCULATIONS

The limits for conducted emissions are given in units of microvolts, and the limits for radiated emissions are given in units of microvolts per meter at a specified test distance. Data is measured in the logarithmic form of decibels relative to one microvolt, or dB microvolts (dBuV). For radiated emissions, the measured data is converted to the field strength at the antenna in dB microvolts per meter (dBuV/m). The results are then converted to the linear forms of uV and uV/m for comparison to published specifications.

For reference, converting the specification limits from linear to decibel form is accomplished by taking the base ten logarithm, then multiplying by 20. These limits in both linear and logarithmic form are as follows:

## GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands<sup>1</sup> (with the exception of transmitters operating under FCC Part 15 Subpart D and RSS 210 Annex 9), the limits for all emissions from a low power device operating under the general rules of RSS 310 (tables 3 and 4), RSS 210 (table 2) and FCC Part 15 Subpart C section 15.209.

Frequency Range (MHz)	Limit (uV/m)	Limit (dBuV/m @ 3m)
0.009-0.490	2400/F <sub>KHz</sub> @ 300m	67.6-20*log <sub>10</sub> (F <sub>KHz</sub> ) @ 300m
0.490-1.705	24000/F <sub>KHz</sub> @ 30m	87.6-20*log <sub>10</sub> (F <sub>KHz</sub> ) @ 30m
1.705 to 30	30 @ 30m	29.5 @ 30m
30 to 88	100 @ 3m	40 @ 3m
88 to 216	150 @ 3m	43.5 @ 3m
216 to 960	200 @ 3m	46.0 @ 3m
Above 960	500 @ 3m	54.0 @ 3m

# FCC 15.407 (a) OUTPUT POWER LIMITS

The table below shows the limits for output power and output power density. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency (MHz)	Output Power	Power Spectral Density
5150 - 5250	50mW (17 dBm)	4 dBm/MHz
5250 - 5350	250 mW (24 dBm)	11 dBm/MHz
5725 - 5825	1 Watts (30 dBm)	17 dBm/MHz

<sup>&</sup>lt;sup>1</sup> The restricted bands are detailed in FCC 15.203, RSS 210 Table 1 and RSS 310 Table 2

For system using antennas with gains exceeding 6dBi, the output power and power spectral density limits are reduced by 1dB for every dB the antenna gain exceeds 6dBi. Fixed point-to-point applications using the 5725 - 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

The peak excursion envelope is limited to 13dB.

# OUTPUT POWER LIMITS -LELAN DEVICES

The table below shows the limits for output power and output power density defined by RSS 210. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency (MHz)	Output Power	Power Spectral Density
	200 W(22 ID ) :	2
5150 - 5250	200mW (23 dBm) eirp	10 dBm/MHz eirp
5250 - 5350	250 mW (24 dBm) <sup>1</sup> 1W (30dBm) eirp	11 dBm/MHz
5470 - 5725	$250 \text{ mW} (24 \text{ dBm})^2$ 1W (30dBm) eirp	11 dBm/MHz
5725 - 5825	1 Watts (30 dBm) 4W eirp	17 dBm/MHz

In addition, the power spectral density limit shall be reduced by 1dB for every dB the highest power spectral density exceeds the "average" power spectral density ) by more than 3dB. The "average" power spectral density is determined by dividing the output power by 10log(EBW) where EBW is the 99% power bandwidth.

Fixed point-to-point applications using the 5725 - 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

# OUTPUT POWER AND SPURIOUS LIMITS –UNII and LELAN DEVICES

The spurious emissions limits for signals below 1GHz are the FCC/RSS-GEN general limits. For emissions above 1GHz, signals in restricted bands are subject to the FCC/RSS GEN general limits. All other signals have a limit of -27dBm/MHz, which is a field strength of 68.3dBuV/m/MHz at a distance of 3m. This is an average limit so the peak value of the emission may not exceed -7dBm/MHz (68.3dBuV/m/MHz at a distance of 3m). For devices operating in the 5725-5850Mhz bands under the LELAN/UNII rules, the limit within 10Mhz of the allocated band is increased to -17dBm/MHz.

<sup>&</sup>lt;sup>1</sup> If EIRP exceeds 500mW the device must employ TPC

<sup>&</sup>lt;sup>2</sup> If EIRP exceeds 500mW the device must employ TPC

#### SAMPLE CALCULATIONS - CONDUCTED EMISSIONS

Receiver readings are compared directly to the conducted emissions specification limit (decibel form) as follows:

$$R_r - S = M$$

where:

 $R_r =$ Receiver Reading in dBuV

S = Specification Limit in dBuV

M = Margin to Specification in +/- dB

## SAMPLE CALCULATIONS - RADIATED EMISSIONS

Receiver readings are compared directly to the specification limit (decibel form). The receiver internally corrects for cable loss, preamplifier gain, and antenna factor. The calculations are in the reverse direction of the actual signal flow, thus cable loss is added and the amplifier gain is subtracted. The Antenna Factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

A distance factor, when used for electric field measurements above 30MHz, is calculated by using the following formula:

$$F_d = 20*LOG_{10} (D_m/D_s)$$

where:

 $\begin{array}{lll} F_d &=& \text{Distance Factor in } dB \\ D_m &=& \text{Measurement Distance in meters} \\ D_S &=& \text{Specification Distance in meters} \end{array}$ 

For electric field measurements below 30MHz the extrapolation factor is either determined by making measurements at multiple distances or a theoretical value is calculated using the formula:

$$F_d = 40*LOG_{10} (D_m/D_s)$$

Measurement Distance is the distance at which the measurements were taken and Specification Distance is the distance at which the specification limits are based. The antenna factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

The margin of a given emission peak relative to the limit is calculated as follows:

 $R_c = R_r + F_d$ 

and

 $M = R_c - L_s$ 

where:

 $R_r$  = Receiver Reading in dBuV/m

- $F_d$  = Distance Factor in dB
- $R_c$  = Corrected Reading in dBuV/m
- $L_S$  = Specification Limit in dBuV/m
- M = Margin in dB Relative to Spec

# SAMPLE CALCULATIONS - FIELD STRENGTH TO EIRP CONVERSION

Where the radiated electric field strength is expressed in terms of the equivalent isotropic radiated power (eirp), or where a field strength measurement of output power is made in lieu of a direct measurement, the following formula is used to convert between eirp and field strength at a distance of 3m from the equipment under test:

 $E = \frac{1000000 \sqrt{30 P}}{3}$  microvolts per meter 3 where P is the eirp (Watts)

# EXHIBIT 1: Test Equipment Calibration Data

3 Pages

Radiated Emissions, 30 - 2	6,500 MHz, 13-Nov-08		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	Model #	Asset # Cal Due
EMCO	Antenna, Horn, 1-18 GHz	3115	487 15-Jul-10
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Nov-08
Radiated Emissions, 30 - 2	6,500 MHz, 23-Nov-08		
Engineer: Rafael Varelas			
Manufacturer	Description	Model #	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785 06-Jun-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Nov-08
Micro-Tronics	Band Reject Filter, 2400-2500 MHz	BRM50702-02	1683 05-Aug-09
EMCO	Antenna, Horn, 1-18 GHz	3115	487 15-Jul-10
Radiated Emissions, 30 - 2	6,500 MHz, 18-Dec-08		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	Model #	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870 09-Oct-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Dec-08
Hewlett Packard	High Pass filter, 8.2 GHz (Red System)	P/N 84300-80039 (84125C)	1152 13-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 1000	- 18,000 MHz, 04-Feb-09		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	<u>Model #</u>	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785 06-Jun-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Mar-09
Hewlett Packard	High Pass filter, 8.2 GHz (Red System)	P/N 84300-80039 (84125C)	1152 13-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 30 - 1	8,000 MHz, 11-Feb-09		
Engineer: Joseph Cadigal			
<u>Manufacturer</u>	Description	<u>Model #</u>	Asset # Cal Due
Elliott Laboratories	Biconical Antenna, 30-300 MHz	EL30.300	54 26-Mar-09
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	263 09-Oct-09
Narda West	High Pass Filter, 8 GHz	HPF 180	821 18-Mar-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Mar-09
Rohde & Schwarz	Test Receiver, 9 kHz-2750 MHz	ESCS 30	1337 02-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 1000	- 18,000 MHz, 12-Feb-09		
Engineer: Rafael Varelas		<b></b>	
Manufacturer	Description	Model #	Asset # Cal Due
Hewlett Packard	SpecAn 9 KHz-26.5 GHz, Non-Program	8563E	284 29-Dec-09
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870 09-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10

Radiated Emissions, 30 - 2	6,500 MHz, 13-Nov-08		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	Model #	Asset # Cal Due
EMCO	Antenna, Horn, 1-18 GHz	3115	487 15-Jul-10
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Nov-08
Radiated Emissions, 30 - 2	6,500 MHz, 23-Nov-08		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	Model #	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785 06-Jun-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Nov-08
Micro-Tronics	Band Reject Filter, 2400-2500 MHz	BRM50702-02	1683 05-Aug-09
EMCO	Antenna, Horn, 1-18 GHz	3115	487 15-Jul-10
Radiated Emissions, 30 - 2	6,500 MHz, 18-Dec-08		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	<u>Model #</u>	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870 09-Oct-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Dec-08
Hewlett Packard	High Pass filter, 8.2 GHz (Red System)	P/N 84300-80039 (84125C)	1152 13-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 1000	- 18,000 MHz, 04-Feb-09		
Engineer: Rafael Varelas			
<u>Manufacturer</u>	Description	<u>Model #</u>	Asset # Cal Due
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785 06-Jun-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Mar-09
Hewlett Packard	High Pass filter, 8.2 GHz (Red System)	P/N 84300-80039 (84125C)	1152 13-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 30 - 1	8,000 MHz, 11-Feb-09		
Engineer: Joseph Cadigal			
Manufacturer	Description	Model #	Asset # Cal Due
Elliott Laboratories	Biconical Antenna, 30-300 MHz	EL30.300	54 26-Mar-09
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	263 09-Oct-09
Narda West	High Pass Filter, 8 GHz	HPF 180	821 18-Mar-09
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148 24-Mar-09
Rohde & Schwarz	Test Receiver, 9 kHz-2750 MHz	ESCS 30	1337 02-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10
Radiated Emissions, 1000	- 18,000 MHz, 12-Feb-09		
Engineer: Rafael Varelas		<b></b> <i></i>	
Manufacturer	Description	Model #	Asset # Cal Due
Hewlett Packard	SpecAn 9 KHz-26.5 GHz, Non-Program	8563E	284 29-Dec-09
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870 09-Oct-09
EMCO	Antenna, Horn, 1-18 GHz	3115	1561 10-Jun-10

Radiated Emissions, 30 - 1	,000 MHz, 13-Nov-08			
Engineer: Peter Sales	Description	Madal #	A	Col Duo
Manufacturer Sunol Sciences	Description Biconilog, 30-3000 MHz	<u>Model #</u> JB3		Cal Due
Rohde & Schwarz	EMI Test Receiver, 20 Hz-7 GHz	ESIB7	1549 1630	23-May-09 22-Feb-09
Com-Power Corp.	Preamplifier, 30-1000 MHz	PA-103	1630	22-Feb-09 22-May-09
com-rower corp.		1 A-103	1032	22-11/ay-09
Radiated Emissions, 30 - 1 Engineer: Chris Groat	,000 MHz, 26-Nov-08			
Manufacturer	Description	Model #		Cal Due
Com-Power Corp.	Preamplifier, 30-1000 MHz	PA-103	1543	14-Nov-09
Sunol Sciences	Biconilog, 30-3000 MHz	JB3	1657	23-May-10 04-Dec-08
Rohde & Schwarz	EMI Test Receiver, 20 Hz-7 GHz	ESIB7	1756	04-Dec-08
Radiated Emissions, 30 - 1 Engineer: rvarelas	,000 MHz, 17-Jan-09			
Manufacturer	Description	Model #	Asset #	Cal Due
Rohde & Schwarz	EMI Test Receiver, 20 Hz-7 GHz	ESIB7	1538	19-Sep-09
Sunol Sciences	Biconilog, 30-3000 MHz	JB3	1548	13-Jun-10
Hewlett Packard	Preamplifier, 100 kHz - 1.3 GHz	8447E	1606	29-May-09
Conducted Emissions - AC	C Power Ports, 22-Jan-09			
Engineer: Riaz Momand				
Manufacturer	Description	Model #	Asset #	
Hewlett Packard	SpecAn 9 KHz-26.5 GHz, Non-Program	8563E	284	29-Dec-09
Elliott Laboratories	LISN, FCC / CISPR	LISN-3, OATS	304	31-Jul-09
Solar Electronics	LISN	8028-50-TS-24-BNC support	904	15-Feb-09
Rohde & Schwarz	Test Receiver, 9 kHz-2750 MHz	ESCS 30	1337	02-Oct-09
Rohde& Schwarz	Pulse Limiter	ESH3 Z2	1398	12-Feb-09
Conducted Emissions - I-C Engineer: Riaz Momand	) Ports, 22-Jan-09			
Manufacturer	Description	Model #	Assat #	Cal Due
Hewlett Packard	SpecAn 9 KHz-26.5 GHz, Non-Program	8563E	284	29-Dec-09
Elliott Laboratories	LISN, FCC / CISPR	LISN-3, OATS	304	31-Jul-09
Solar Electronics	LISN	8028-50-TS-24-BNC support	904	15-Feb-09
Rohde & Schwarz	Test Receiver, 9 kHz-2750 MHz	ESCS 30	1337	02-Oct-09
Rohde& Schwarz	Pulse Limiter	ESH3 Z2	1398	12-Feb-09
Fischer Custom Comm.	FCC-TLISN-T8-02 (Includes 1907)	FCC-TLISN-T8-02	1906	05-Jul-09
Conducted Emissions - AC	Power and Telecommunications Ports, 29-Jan-	-09		
Conducted Emissions - AC Engineer: Chris Groat	C Power and Telecommunications Ports, 29-Jan-	-09		
	C Power and Telecommunications Ports, 29-Jan- Description	09 <u>Model #</u>	Asset #	Cal Due
Engineer: Chris Groat	Description LISN, FCC / CISPR		<u>Asset #</u> 362	<u>Cal Due</u> 31-Jul-09
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard	<u>Description</u> LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz	Model #	362 787	
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter	<u>Model #</u> LISN-4, OATS 8595EM ESH3 Z2	362 787 812	31-Jul-09 19-Feb-09 12-Feb-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN	<u>Model #</u> LISN-4, OATS 8595EM ESH3 22 8028-50-TS-24-BNC support	362 787 812 904	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm.	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe	Model # LISN-4, OATS 8595EM ESH3 Z2 8028-50-TS-24-BNC support F-CVP-1	362 787 812 904 1296	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz	Model # LISN-4, OATS 8595EM ESH3 Z2 8028-50-TS-24-BNC support F-CVP-1 ESN	362 787 812 904 1296 1332	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm.	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz Current Probe, RF	Model # LISN-4, OATS 8595EM ESH3 Z2 8028-50-TS-24-BNC support F-CVP-1	362 787 812 904 1296	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm.	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz Current Probe, RF FCC-TLISN-T8-02 (Includes 1907)	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M	362 787 812 904 1296 1332 1820	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm.	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz Current Probe, RF FCC-TLISN-T8-02 (Includes 1907)	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M	362 787 812 904 1296 1332 1820	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz Current Probe, RF FCC-TLISN-T8-02 (Includes 1907) 2,000 MHz, 21-Feb-09	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02	362 787 812 904 1296 1332 1820 1906	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u>	Description LISN, FCC / CISPR EMC Spectrum Analyzer, 9 kHz - 6.5 GHz Pulse Limiter LISN Non-Contact Voltage Probe Test Receiver, 0.009-2750 MHz Current Probe, RF FCC-TLISN-T8-02 (Includes 1907) c,000 MHz, 21-Feb-09 Description	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02	362 787 812 904 1296 1332 1820 1906	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u> Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B	362 787 812 904 1296 1332 1820 1906 <u>Asset #</u> 263	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 30-Jan-09 26-Mar-10 05-Jul-09 <b><u>Cal Due</u></b> 09-Oct-09
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u> Hewlett Packard EMCO	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         ,000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)	Model #           LISN-4, OATS           8595EM           ESH3 22           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 <b>Cal Due</b> 09-Oct-09 02-Sep-10
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u> Hewlett Packard EMCO Sunol Sciences	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         cool MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 09-Oct-09 02-Sep-10 13-Jun-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         c,000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sul-09 02-Sep-10 13-Jun-10 10-Feb-10
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u> Hewlett Packard EMCO Sunol Sciences	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         cool MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 09-Oct-09 02-Sep-10 13-Jun-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         Cool MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         cool MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09
Engineer: Chris Groat <u>Manufacturer</u> Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal <u>Manufacturer</u> Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         COOD MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         COOD MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8664E (84125C)           8447D OPT           Model #           3825/2	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 <b>Cal Due</b> 22-Feb-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         coord MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Iecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter	Model #           LISN-4, OATS           8595EM           ESH3 22           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESH3 Z2	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 <b>Cal Due</b> 22-Feb-09 17-Apr-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         c,000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8664E (84125C)           8447D OPT           Model #           3825/2           ESIB7           8325/2           ESIB7	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 22-Feb-09 17-Apr-09 10-Feb-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Pac	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Iecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESH3 Z2           ESIB7           F-16M	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756 1820	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 <b>Cal Due</b> 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         c,000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8664E (84125C)           8447D OPT           Model #           3825/2           ESIB7           8325/2           ESIB7	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 22-Feb-09 17-Apr-09 10-Feb-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Manufacturer Emgineer: Joseph Cadigal Manufacturer EMCO Rohde & Schwarz Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm.	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Iecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESH3 Z2           ESIB7           F-16M	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756 1820	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 <b>Cal Due</b> 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm.	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         COO MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Hecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF         Non-Contact Voltage Probe         Hecommunications Ports, 05-Mar-09	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESIB7           F-16M           F-CVP-1	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756 1820 1958	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10 11-Dec-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm.	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         COOD MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF         Non-Contact Voltage Probe         Idecommunications Ports, 05-Mar-09         Description	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESH3 Z2           ESIB7           F-16M           F-CVP-1	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1548 1756 1548 1771 2115 <b>Asset #</b> 1292 1401 1756 1820 1958 <b>Asset #</b>	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 09-Sep-09 30-Jan-09 26-Mar-10 05-Jul-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 <b>Cal Due</b> 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10 11-Dec-09 <b>Cal Due</b>
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Conducted Emissions - Te Engineer: Mark Hill Manufacturer Elliott Laboratories	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF         Non-Contact Voltage Probe         Idecommunications Ports, 05-Mar-09         Description         LISN, FCC / CISPR	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESIB7           F-16M           F-CVP-1           Model #           13825/2           ESIB7           LISN-3, OATS	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756 1820 1958 <b>Asset #</b> 304	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 <u>30-Jan-09</u> 26-Mar-10 05-Jul-09 26-Mar-10 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 19-Nov-09 19-Nov-09 10-Feb-10 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10 11-Dec-09 21-Feb-10 26-Mar-10 26-Mar-10 27-Apr-09 26-Mar-10 26-Mar-10 27-Apr-09 26-Mar-10 26-Mar-10 27-Apr-09 27-Apr-09 26-Mar-10 26-Mar-10 27-Apr-09 27-Apr-09 26-Mar-10 26-Mar-10 27-Apr-09 27-Apr-09 27-Apr-09 26-Mar-10 27-Apr-09 27-Apr-09 27-Apr-09 27-Apr-09 27-Apr-09 27-Apr-09 27-Apr-09 26-Mar-10 27-Apr-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Fischer: Mark Hill Manufacturer Elliott Laboratories Rohde & Schwarz	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF         Non-Contact Voltage Probe         Idecommunications Ports, 05-Mar-09         Description         LISN, FCC / CISPR         Test Receiver, 9 kHz-2750 MHz	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESIB7           F-16M           F-CVP-1	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1548 1771 2115 <b>Asset #</b> 1292 1401 1756 1820 1958 <b>Asset #</b> 304 1337	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 30-Jan-09 26-Mar-10 05-Jul-09 26-Mar-10 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10 11-Dec-09 02-Oct-09 02-Oct-09 02-Sep-10 13-Jul-09 02-Oct-09
Engineer: Chris Groat Manufacturer Elliott Laboratories Hewlett Packard Rohde& Schwarz Solar Electronics Fischer Custom Comm. Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Radiated Emissions, 30 - 2 Engineer: Joseph Cadigal Manufacturer Hewlett Packard EMCO Sunol Sciences Rohde & Schwarz Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Hewlett Packard Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz Fischer Custom Comm. Fischer Custom Comm. Fischer Custom Comm. Conducted Emissions - Te Engineer: Mark Hill Manufacturer Elliott Laboratories	Description         LISN, FCC / CISPR         EMC Spectrum Analyzer, 9 kHz - 6.5 GHz         Pulse Limiter         LISN         Non-Contact Voltage Probe         Test Receiver, 0.009-2750 MHz         Current Probe, RF         FCC-TLISN-T8-02 (Includes 1907)         C000 MHz, 21-Feb-09         Description         Microwave Preamplifier, 1-26.5GHz         Antenna, Horn, 1-18 GHz (SA40-Blu)         Biconilog, 30-3000 MHz         EMI Test Receiver, 20 Hz-7 GHz         SpecAn 9 kHz - 40 GHz, (SA40) Purple         Preamplifier, 100 kHz - 1.3 GHz         Idecommunications Ports, 21-Feb-09         Description         LISN, 10 kHz-100 MHz         Pulse Limiter         EMI Test Receiver, 20 Hz-7 GHz         Current Probe, RF         Non-Contact Voltage Probe         Idecommunications Ports, 05-Mar-09         Description         LISN, FCC / CISPR	Model #           LISN-4, OATS           8595EM           ESH3 Z2           8028-50-TS-24-BNC support           F-CVP-1           ESN           F-16M           FCC-TLISN-T8-02           Model #           8449B           3115           JB3           ESIB7           8564E (84125C)           8447D OPT           Model #           3825/2           ESIB7           F-16M           F-CVP-1           Model #           13825/2           ESIB7           LISN-3, OATS	362 787 812 904 1296 1332 1820 1906 <b>Asset #</b> 263 1386 1548 1756 1771 2115 <b>Asset #</b> 1292 1401 1756 1820 1958 <b>Asset #</b> 304	31-Jul-09 19-Feb-09 12-Feb-09 15-Feb-09 <u>30-Jan-09</u> 26-Mar-10 05-Jul-09 26-Mar-10 09-Oct-09 02-Sep-10 13-Jun-10 10-Feb-10 20-Oct-09 19-Nov-09 19-Nov-09 19-Nov-09 10-Feb-10 22-Feb-09 17-Apr-09 10-Feb-10 26-Mar-10 11-Dec-09 21-Feb-10 26-Mar-10 21-Feb-10

EXHIBIT 2: Test Measurement Data

84 Pages

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# EMC Test Data

Adminiono			
Client	Ruckus Wireless	Job Number:	J73710
Model	Dalmatian	T-Log Number:	T73745
		Account Manager:	Dean Eriksen
Contact	Craig Owens		-
Emissions Standard(s):	FCC Part 15.247/RSS-210	Class:	В
Immunity Standard(s):	-	Environment:	-
Immunity Standard(s):	-	Environment:	-

**EMC** Test Data

For The

# **Ruckus Wireless**

Model

Dalmatian

Date of Last Test: 2/11/2009

C Elli	ott			F	MC Test Data
A	livision of 4245				
	Client: Ruckus Wirele	SS		o Number	
	Model: Dalmatian			g Number:	
C	ontact: Craig Owens		Accour	it Manger	Dean Eriksen
	17/RSS-210		Class	B	
Emissions Standard(s): FCC Part 15.247/RSS-210 Immunity Standard(s): -			En	/ironment:	
		EUT INFORM	MATION		l
was treated as table	-top equipment during	General Desc ed to distribute WiFi. Since the testing to simulate the end-use DC adapter. The EUT can also	EUT would be placed on r environment. The elect	ical rating	•
		Equipment Un	der Test		
Manufacturer	Mod				FCC ID
Ruckus Wireless,	Inc. 796	2 802.11a/b/g/n A	ccess 09010000	003	S9G7962
DVE The six antennas		200150 Power Supp EUT Antenna (Intentiona d in the system are internal to the	al Radiators Only)		-
The EUT enclosur	e is primarily construc	EUT Enclos ted of plastic. It measures app	roximately 19 cm wide by	15 cm dee	ep by 10 cm high.
NA 1 //		Modification			
Mod. # 1	Test	Date	Moc ications were made to the	lification	a testina
	ied are assumed to be	e used on subsequent tests unle			

Ellio	f ATAS			MC Test Da
	Ruckus Wireless		Job Number:	
Model	: Dalmatian	-	T-Log Number: Account Manger:	
Contact	: Craig Owens		ACCOUNT Manyer.	Deall Elikseli
	: FCC Part 15.247/RSS-210	0	Class:	В
Immunity Standard(s): -			Environment:	-
	The following infor	est Configuration mation was collected during	g the test session(s).	
Manufacturer	Model	Description	Serial Number	FCC ID
-	-	-	-	-
Manufacturer Dell	Re Model	emote Support Equipm Description Laptop Computer	Serial Number	FCC ID DoC
		Cabling and Darta		
		Cabling and Ports		
Port	Connected To	Description	Cable(s) Shielded or Unshield	od Longth(n
E4	Laptop	Description CAT5	Unshielded	ed Length(n 3m
Ethernet		0/110		
Ethernet DC Power	AC/DC Adapter	Multiconductor	Shielded	1.5
DC Power During transmit mode te	EUT Op	peration During Emission ontinuously transmit at the de	Shielded	1.5

Model: D Contact: C Standard: F	Craig Owen	s				Job Number: T-Log Number: Account Manager:	T73745
Contact: C Standard: F	Craig Owen					8	
Standard: F	0						Douri Linkson
I	CC Part 15	5.247/RSS-21					
F			0			Class:	N/A
	RSS 2 <sup>'</sup>	10 and I	FCC 1	5.407 (L	JNII) Radiated	Spurious Emi	ssions
est Specif				•		•	
•	Objective:				perform final qualification	testing of the EUT with r	espect to the
Test	t Engineer:	Refer to indiv Refer to indiv Refer to indiv	idual run		Config. Used: 7 Config Change: 1 EUT Voltage: 7	none	
General Te The EUT and		0	ent were loc	cated on the t	urntable for radiated spuric	ous emissions testing.	
or radiated e	emissions te	esting the mea	asurement a	antenna was	located 3 meters from the	EUT.	
Ambient Co	ondition	S:	T	emperature:	20 °C		
			R	el. Humidity:	38 %		
Summary o	of Result	S	Power	Measured	Г		
Run #	Mode	Channel	Setting	Power	Test Performed	Limit	Result / Margin
	802.11a	5150-5250	14dBm		Restricted Band Edge at	15.209	73.1dBµV/m@
_	Legacy	Low			5150 MHz		5150MHz (-0.9dB)
1	802.11a Legacy	5150-5250 Low	21dBm		Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	56.8dBµV/m @ 10360.1MHz (-11.5c
F	802.11a Legacy	5150-5250 Center	21dBm		Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	59.0dBµV/m @ 10400.5MHz (-9.3d
	802.11a Legacy	5150-5250 High	21dBm		Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	60.3dBµV/m @ 10480.0MHz (-8.0d

# Elliott

# EMC Test Data

	An Z(ZZZ) company		
Client:	Ruckus Wireless	Job Number:	J73710
Model	Dalmatian	T-Log Number:	T73745
wouer.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

# Modifications Made During Testing

No modifications were made to the EUT during testing

# Deviations From The Standard

No deviations were made from the requirements of the standard.

#### Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band

Date of Test: 2/9/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1

# Run #1a: Low Channel @ 5180 MHz

Fundamental Signal Field Strength	
-----------------------------------	--

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5181.600	106.4	V	-	-	AVG	287	1.2	RB 1 MHz; VB: 10 Hz, 14dbm
5180.300	115.2	V	-	-	PK	287	1.2	RB 1 MHz; VB: 1 MHz, 14dbm
5182.570	98.2	Н	-	-	AVG	358	1.4	RB 1 MHz; VB: 10 Hz, 21dBm
5182.730	107.6	Н	-	-	PK	358	1.4	RB 1 MHz; VB: 1 MHz, 21dBm

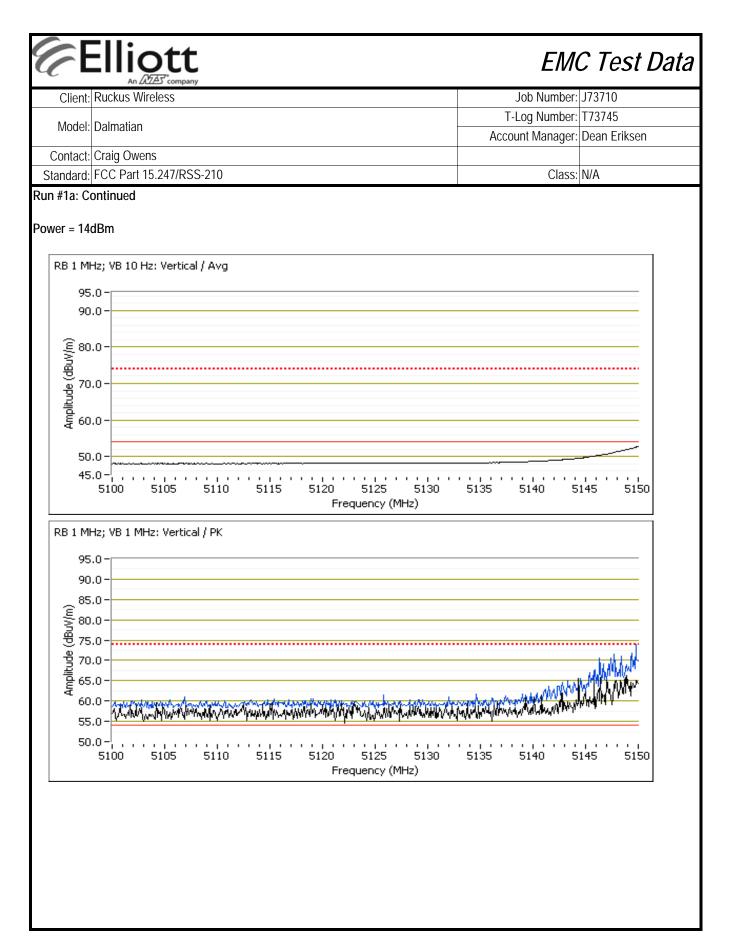
# 5150 MHz Band Edge Signal Radiated Field Strength

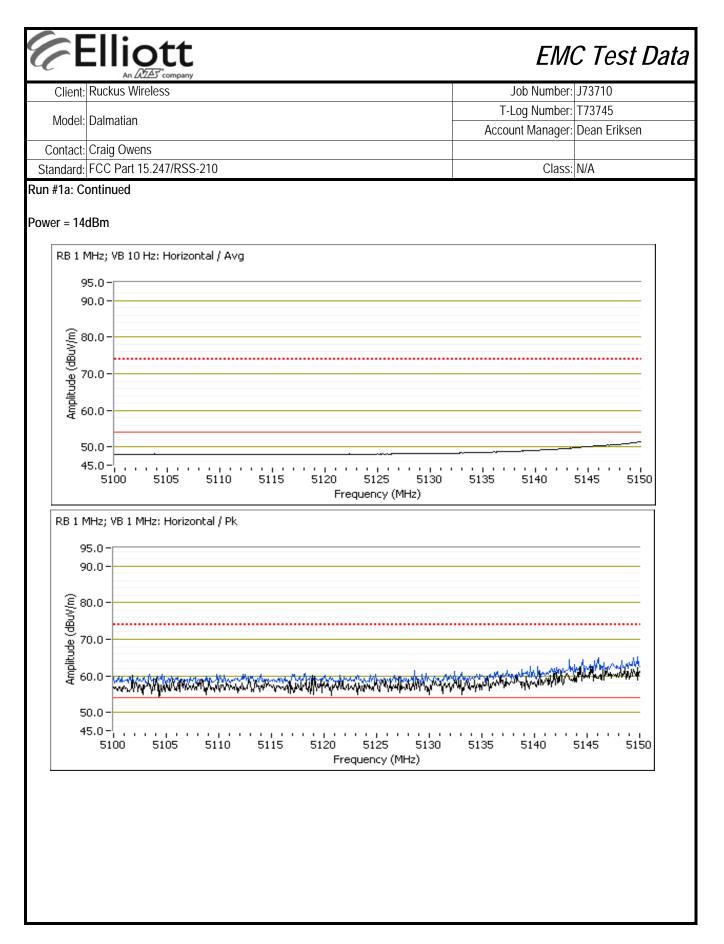
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5149.980	73.1	V	74.0	-0.9	PK	287	1.2	RB 1 MHz; VB: 1 MHz, 14dbm
5149.900	52.7	V	54.0	-1.3	Avg	287	1.2	RB 1 MHz; VB: 10 Hz, 14dbm
5149.900	51.5	Н	54.0	-2.5	Avg	358	1.4	RB 1 MHz; VB: 10 Hz, 21dBm
5149.880	67.5	Н	74.0	-6.5	PK	358	1.4	RB 1 MHz; VB: 1 MHz, 21dBm

# Spurious Radiated Emissions:

Power Setting = 21dbm

Frequency	Level	Pol	15.20	9/15E	Detector	Azimuth	Height	Comments
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10360.130	56.8	V	68.3	-11.5	AVG	238	1.0	RB 1 MHz; VB: 10 Hz
10360.490	56.6	Н	68.3	-11.7	AVG	163	1.1	RB 1 MHz; VB: 10 Hz
10359.960	68.9	V	88.3	-19.4	PK	238	1.0	RB 1 MHz; VB: 1 MHz
10360.120	68.6	Н	88.3	-19.7	PK	163	1.1	RB 1 MHz; VB: 1 MHz
Note 1:	For emission	ns in restricte	ed bands, the	e limit of 15.2	09 was used.	For all othe	er emissions	, the average limit was set to -
NOLE T.	27dBm/MHz	: (~68dBuV/n	n).					



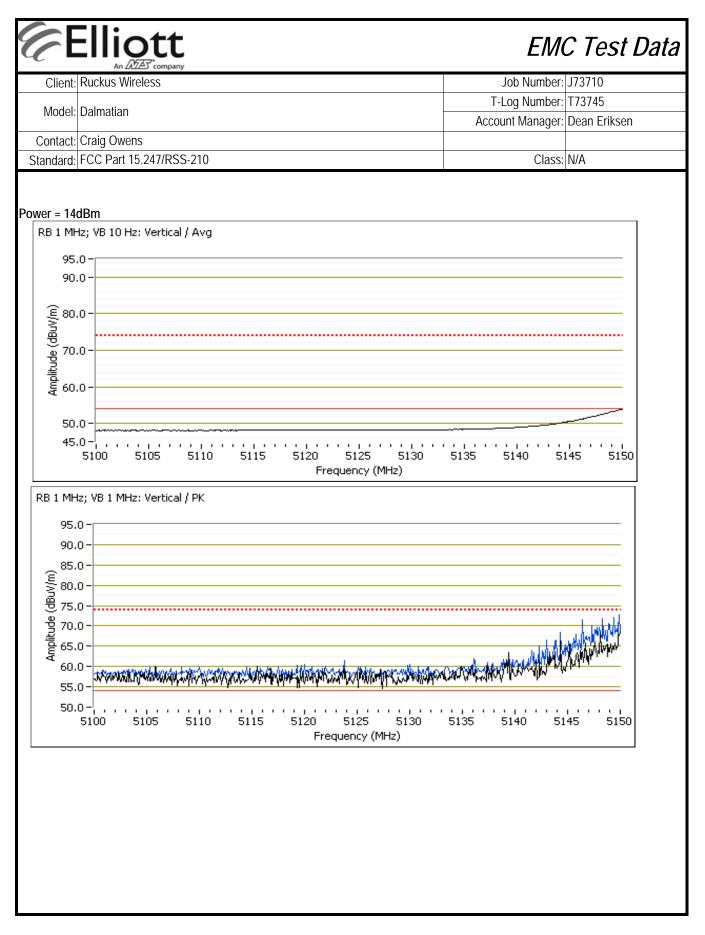


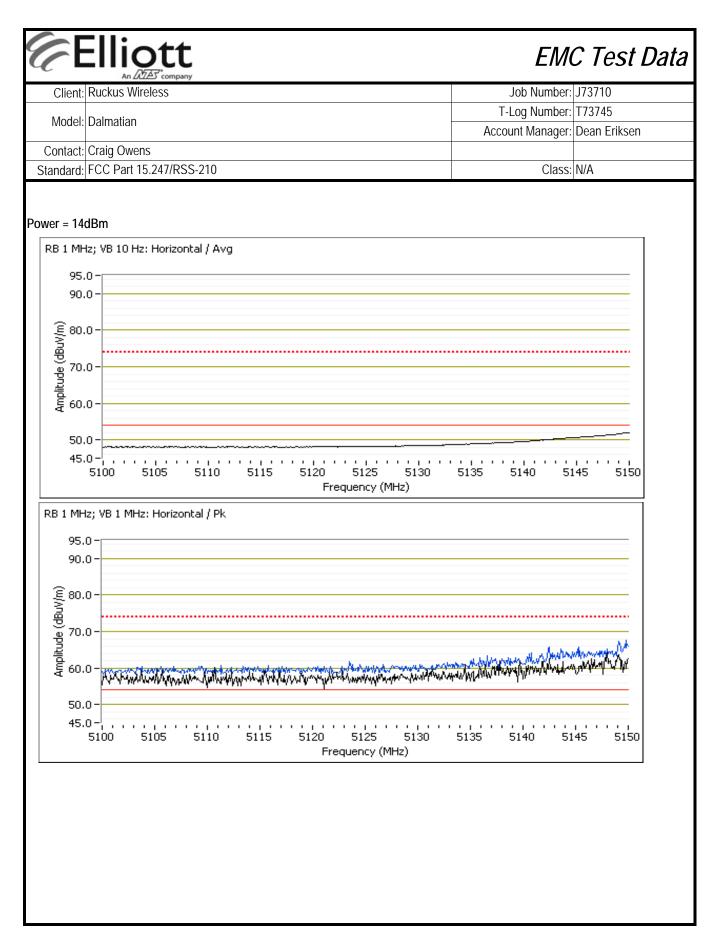
Client	Ruckus Wire	Company Deless						Job Number:	J73710
		1000					T	Log Number:	
Model:	Dalmatian							unt Manager:	
Contact	Craig Owen:	c					ALLU	uni manayer.	
	FCC Part 15		10					Class:	NI/A
	Center Chan		10					01033.	
		IEI							
	Date of Test:	2/9/2009							
Te	est Engineer:	Joseph Cad	igal						
	est Location:								
•	Radiated Emi								
	ing = 21dbm						1		
Frequency		Pol		9/15E	Detector	Azimuth	Height	Comments	
		v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
MHz	dBµV/m								
10400.510	59.0	V	68.3	-9.3	AVG	120	1.4	RB 1 MHz; V	
10400.510 10401.500	59.0 56.7	V H	68.3	-11.6	AVG	163	1.1	RB 1 MHz;	/B: 10 Hz
10400.510 10401.500 10401.150	59.0 56.7 70.6	V H V	68.3 88.3	-11.6 -17.7	AVG PK	163 120	1.1 1.4	RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz
10400.510 10401.500 10401.150	59.0 56.7	V H	68.3	-11.6	AVG	163	1.1	RB 1 MHz;	/B: 10 Hz /B: 1 MHz
10400.510 10401.500 10401.150	59.0 56.7 70.6 68.3	V H V H	68.3 88.3 88.3	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420	59.0 56.7 70.6 68.3 For emission	V H V H	68.3 88.3 88.3 ed bands, the	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420	59.0 56.7 70.6 68.3	V H V H	68.3 88.3 88.3 ed bands, the	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420	59.0 56.7 70.6 68.3 For emission	V H V H	68.3 88.3 88.3 ed bands, the	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Note 1:	59.0 56.7 70.6 68.3 For emission	V H V H ns in restricte	68.3 88.3 88.3 ed bands, the n).	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Note 1:	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz	V H V H ns in restricte	68.3 88.3 88.3 ed bands, the n).	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Jote 1: Run #1c: H	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel Radiated Emi	V H V H is in restricte (~68dBuV/n @ 5240MHz	68.3 88.3 88.3 ed bands, the n).	-11.6 -17.7 -20.0	AVG PK PK	163 120 163	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Note 1: Run #1c: H Spurious R Power Sett	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel Radiated Emi ing = 21dbm	V H V H ms in restricte c (~68dBuV/n @ 5240MHz	68.3 88.3 88.3 ed bands, the n).	-11.6 -17.7 -20.0	AVG PK PK	163 120 163 For all othe	1.1 1.4 1.1 er emissions	RB 1 MHz; ' RB 1 MHz; ' RB 1 MHz; '	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Note 1: Run #1c: H Spurious R Power Sett Frequency	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel Radiated Emi ing = 21dbm Level	V H V H s in restricte (~68dBuV/n @ 5240MHz issions: Pol	68.3 88.3 88.3 ed bands, the n).	-11.6 -17.7 -20.0 Imit of 15.2	AVG PK PK 09 was used. Detector	163 120 163 For all othe	1.1 1.4 1.1	RB 1 MHz; RB 1 MHz; RB 1 MHz;	/B: 10 Hz /B: 1 MHz /B: 1 MHz
10400.510 10401.500 10401.150 10399.420 Note 1: Run #1c: H Spurious R Power Sett Frequency MHz	59.0 56.7 70.6 68.3 For emission 27dBm/MHz igh Channel Radiated Emi ing = 21dbm Level dBµV/m	V H V H ms in restricte (~68dBuV/n @ 5240MHz <i>©</i> ssions: Pol v/h	68.3 88.3 88.3 ed bands, the n). 15.20 Limit	-11.6 -17.7 -20.0 Ilimit of 15.2 Margin	AVG PK PK 09 was used. Detector Pk/QP/Avg	163 120 163 For all othe Azimuth degrees	1.1 1.4 1.1 er emissions Height meters	RB 1 MHz; <sup>v</sup> RB 1 MHz; <sup>v</sup> RB 1 MHz; <sup>v</sup> , the <b>average</b> Comments	/B: 10 Hz /B: 1 MHz /B: 1 MHz limit was set
10400.510 10401.500 10401.150 10399.420 Note 1: Run #1c: H Spurious R Power Sett Frequency MHz 10480.000	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel adiated Emi ing = 21dbm Level dBμV/m 60.3	V H V H is in restricte (~68dBuV/n @ 5240MHz <i>issions:</i> Pol V/h V	68.3 88.3 88.3 ed bands, the n). 15.200 Limit 68.3	-11.6 -17.7 -20.0 Ilmit of 15.2	AVG PK PK 09 was used. 09 was used. NG	163 120 163 For all othe Azimuth degrees 360	1.1 1.4 1.1 er emissions Height meters 1.4	RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> , the <b>average</b> , the <b>average</b> RB 1 MHz; <sup>1</sup>	/B: 10 Hz /B: 1 MHz /B: 1 MHz limit was set /B: 10 Hz
10400.510 10401.500 10399.420 Note 1: Run #1c: H Spurious R Power Sett Frequency MHz 10480.000 10479.740	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel Radiated Emi ing = 21dbm Level dBμV/m 60.3 54.8	V H V H s in restricte (~68dBuV/n @ 5240MHz <i>issions:</i> Pol V/h V H	68.3 88.3 88.3 ed bands, the n). 15.200 Limit 68.3 68.3	-11.6 -17.7 -20.0 Imit of 15.2 Margin -8.0 -13.5	AVG PK PK 09 was used. 09 was used.	163 120 163 For all other Azimuth degrees 360 162	1.1 1.4 1.1 er emissions Height meters 1.4 1.1	RB 1 MHz; ' RB 1 MHz; ' RB 1 MHz; ' , the average , the average RB 1 MHz; ' RB 1 MHz; '	/B: 10 Hz /B: 1 MHz /B: 1 MHz · limit was se /B: 10 Hz /B: 10 Hz
10400.510 10401.500 10401.150 10399.420 Note 1: Run #1c: H Spurious R Power Sett Frequency MHz 10480.000	59.0 56.7 70.6 68.3 For emissior 27dBm/MHz igh Channel Radiated Emi ing = 21dbm Level dBμV/m 60.3 54.8 73.8	V H V H is in restricte (~68dBuV/n @ 5240MHz <i>issions:</i> Pol V/h V	68.3 88.3 88.3 ed bands, the n). 15.200 Limit 68.3	-11.6 -17.7 -20.0 Ilmit of 15.2	AVG PK PK 09 was used. 09 was used. NG	163 120 163 For all othe Azimuth degrees 360	1.1 1.4 1.1 er emissions Height meters 1.4	RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> , the <b>average</b> , the <b>average</b> RB 1 MHz; <sup>1</sup>	/B: 10 Hz /B: 1 MHz /B: 1 MHz - limit was set /B: 10 Hz /B: 10 Hz /B: 10 Hz

Client: Model: Contact:	Ruckus Min					EMO	C Test Data
	IVUCKUS MIII	eless				Job Number:	J73710
	Dalmatian					T-Log Number:	T73745
Contact:						Account Manager:	Dean Eriksen
	Craig Owen						
Standard:	FCC Part 1	5.247/RSS-21	10			Class:	N/A
	RSS 2	10 and	FCC 1	5.407 (L	JNII) Radiated	Spurious Emi	ssions
Test Spec	ific Detai	ls					
	Objective:	The objective specification			perform final qualification	testing of the EUT with r	espect to the
D	ate of Test:	Refer to indi	vidual run		Config. Used:		
	•	Refer to indi			Config Change:		
le	st Location:	Refer to indi	vidual run		EUT Voltage:	120V/60Hz	
	d all local su	ipport equipm			urntable for radiated spurio located 3 meters from the		
Ambient C	Condition	۶.	1	Femperature:	20 °C		
	Sonanion			Rel. Humidity:			
Summary	of Result	ts					
Run #	Mode	Channel	Power Setting	Measured Power	Test Performed	Limit	Result / Margin
	802.11a	5150-5250	14dBm		Restricted Band Edge at	15.209	53.9dBµV/m @
-	Legacy	Low	THUDIN		5150 MHz	13.207	5150.0MHz (-0.1dB)
	802.11a Legacy	5150-5250 Low	21dBm		Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	56.6dBµV/m @ 10359.5MHz (-11.7dB)
1	802.11a	5150-5250	01dDm		Radiated Emissions,	FCC 15.209 / 15 E	58.8dBµV/m @
_	Legacy	Center	21dBm		1 - 40 GHz	FUU 15.2097 15 E	10401.3MHz (-9.5dB)
	802.11a Legacy	5150-5250 High	21dBm		Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	59.9dBµV/m @ 10479.9MHz (-8.4dB)

|--|

		Company							
Client:	Ruckus Wire	less						Job Number:	J73710
Maria I.	Delmalia						T-	-Log Number:	T73745
Wodel:	Dalmatian							-	Dean Eriksen
Contact:	Craig Owens							<u>v</u>	
Standard: FCC Part 15.247/RSS-210								Class:	N/A
	ions Made tions were ma	-	-	sting					
Deviation	s From Th	e Standar	'n						
	is were made			of the standa	rd				
to domation									
	ng = 21dbm IT20 mode								
I1n MCS0 F [ Te T€ Run #1a: Lo		Joseph Cad SVOATS #1 @ <b>5180 MH</b> 2	igal/Rafael V						
In MCSO F E Te Run #1a: Lo Fundament Frequency	HT20 mode Date of Test: 2 st Engineer: 4 est Location: 9 bw Channel of tal Signal Fie Level	Joseph Cad SVOATS #1 @ <b>5180 MH</b> z <i>Id Strength</i> Pol	igal/Rafael V z 15.209	/ 15.247	Detector	Azimuth	Height	Comments	
1n MCSO F Te Te Run #1a: Lo Fundament Frequency MHz	HT20 mode Date of Test: St Engineer: est Location: bw Channel of tal Signal Fie Level dBμV/m	Joseph Cad SVOATS #1 @ <b>5180 MH</b> z <i>Id Strength</i> Pol v/h	igal/Rafael V		Pk/QP/Avg	degrees	meters		
In MCSO F Te Te Run #1a: Lo Fundament Frequency MHz 5181.630	HT20 mode Date of Test: ast Engineer: est Location: bw Channel tal Signal Fie Level dBμV/m 106.0	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V	igal/Rafael V z 15.209	/ 15.247	Pk/QP/Avg AVG	degrees 287	meters 1.2	RB 1 MHz;	VB: 10 Hz, 14dbm
11n MCS0 F [ Te Te Run #1a: Le Fundament Frequency MHz 5181.630 5184.170	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 bw Channel of tal Signal Fiel dBµV/m 106.0 114.5	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V	igal/Rafael V z 15.209	/ 15.247	Pk/QP/Avg AVG PK	degrees 287 287	meters 1.2 1.2	RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm
In MCS0 F	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 bw Channel of tal Signal Fie Level dBµV/m 106.0 114.5 98.3	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V V H	igal/Rafael V z 15.209	/ 15.247	Pk/QP/Avg AVG PK AVG	degrees 287 287 358	meters 1.2 1.2 1.4	RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm
11n MCS0 F [ Te Te Run #1a: Le Fundament Frequency MHz 5181.630 5184.170	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 bw Channel of tal Signal Fiel dBµV/m 106.0 114.5	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V	igal/Rafael V z 15.209	/ 15.247	Pk/QP/Avg AVG PK	degrees 287 287	meters 1.2 1.2	RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm
In MCS0 F Te Te Te Run #1a: Lo Frequency MHz 5181.630 5184.170 5182.930 5181.130	HT20 mode Date of Test: St Engineer: est Location: bw Channel of tal Signal Fie Level dBμV/m 106.0 114.5 98.3 106.7	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V V H H H	igal/Rafael V z 15.209 Limit - - - -	/ 15.247 Margin - - - -	Pk/QP/Avg AVG PK AVG	degrees 287 287 358	meters 1.2 1.2 1.4	RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm
In MCSO F [ Te Te Run #1a: Le Fundament Frequency MHz 5181.630 5184.170 5182.930 5181.130	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 bw Channel of tal Signal Fie Level dBµV/m 106.0 114.5 98.3	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V V H H H	igal/Rafael V 15.209 Limit - - - ted Field Sti	/ 15.247 Margin - - - -	Pk/QP/Avg AVG PK AVG	degrees 287 287 358	meters 1.2 1.2 1.4	RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm
1n MCS0 H [ Te Te Run #1a: Le Fundament Frequency MHz 5181.630 5184.170 5182.930 5181.130	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 ow Channel of al Signal Fiel (dBµV/m 106.0 114.5 98.3 106.7 Band Edge Si Level	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V V H H H	igal/Rafael V 15.209 Limit - - - ted Field Sti	/ 15.247 Margin - - - - - - - rength 15.209	Pk/QP/Avg AVG PK AVG PK	degrees 287 287 358 358 358 Azimuth	meters 1.2 1.2 1.4 1.4	RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm
1n MCS0 F E Te Te Run #1a: Lo Fundament Frequency MHz 5181.630 5184.170 5182.930 5181.130 5181.130 5150 MHz E Frequency MHz	HT20 mode Date of Test: 2 St Engineer: 2 Sest Location: 3 Dw Channel of tal Signal Fiel dBµV/m 106.0 114.5 98.3 106.7 Band Edge Si	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V V V H H H	igal/Rafael V 15.209 Limit - - ted Field Str FCC	/ 15.247 Margin - - - - -	Pk/QP/Avg AVG PK AVG PK Detector	degrees 287 287 358 358	meters 1.2 1.2 1.4 1.4 Height	RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> Comments	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm
In MCSO F Te Te Te Run #1a: Lo Fundament Frequency MHz 5181.630 5184.170 5182.930 5184.130 51850 MHz E Frequency	HT20 mode Date of Test: 2 st Engineer: 2 est Location: 3 bw Channel @ tal Signal Fie Level dBμV/m 106.0 114.5 98.3 106.7 Band Edge Si Level dBμV/m	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V H H H H	igal/Rafael V 15.209 Limit - - ted Field Str FCC Limit	/ 15.247 Margin - - - - rength 15.209 Margin	Pk/QP/Avg AVG PK AVG PK Detector Pk/QP/Avg	degrees 287 287 358 358 358 Azimuth degrees	meters 1.2 1.2 1.4 1.4 Height meters	RB 1 MHz; ' RB 1 MHz; ' RB 1 MHz; ' RB 1 MHz; ' Comments RB 1 MHz; '	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm VB: 1 MHz, 21dBm VB: 10 Hz, 14dbm
In MCS0 F E Te Te Run #1a: Lo Fundament Frequency MHz 5181.630 5184.170 5182.930 5181.130 5181.130 5150 MHz E Frequency MHz 5149.970	HT20 mode Date of Test: 2 st Engineer: 4 cest Location: 2 cest Location:	Joseph Cad SVOATS #1 @ 5180 MHz Id Strength Pol V/h V V H H H Sgnal Radia Pol v/h V	igal/Rafael V 15.209 Limit - - ted Field Str FCC Limit 54.0	/ 15.247 Margin - - - rength 15.209 Margin -0.1	Pk/QP/Avg AVG PK AVG PK Detector Pk/QP/Avg Avg	degrees 287 287 358 358 Azimuth degrees 287	meters           1.2           1.4           1.4           1.4           1.4           1.4           1.2	RB 1 MHz; ' RB 1 MHz; '	VB: 1 MHz, 14dbm VB: 10 Hz, 21dBm VB: 1 MHz, 21dBm





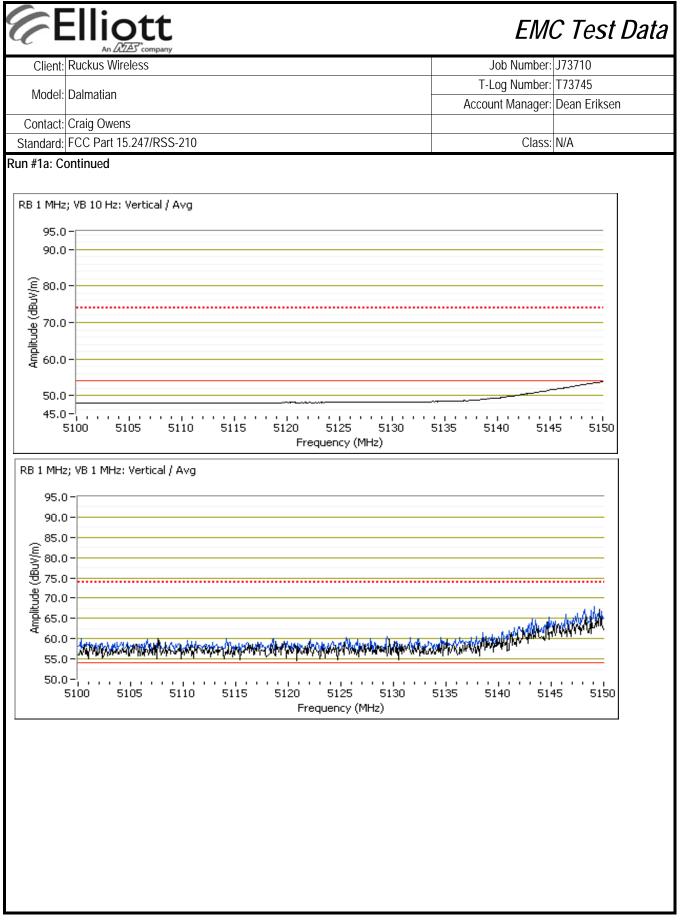
E	liott
	An ATAS company

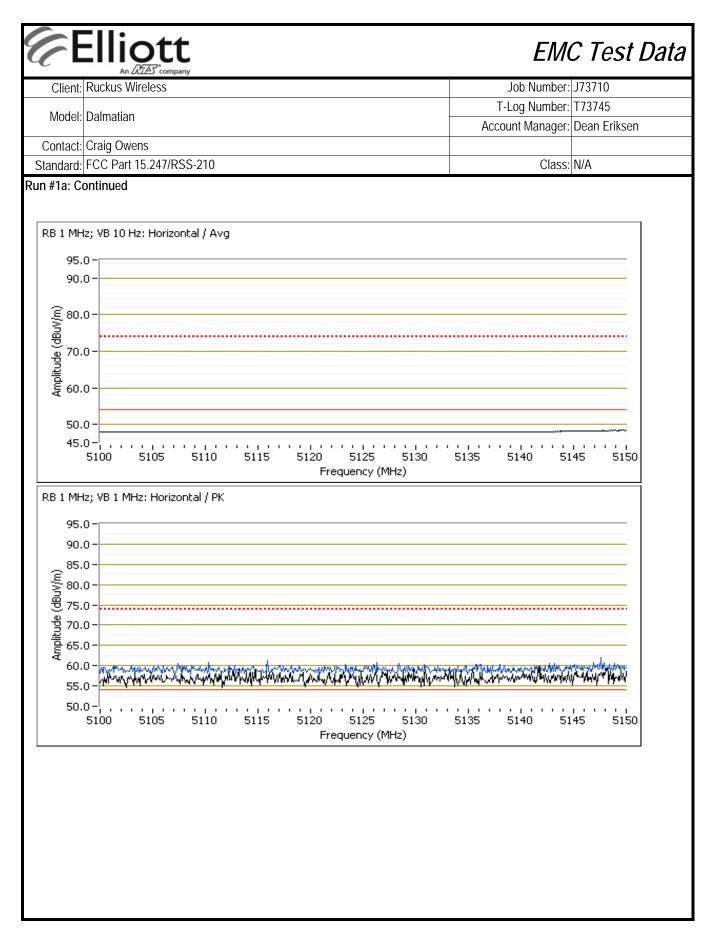
Client:	Ruckus Wire	less						Job Number:	J73710
							T-Log Number:		T73745
Model:	Dalmatian							5	Dean Eriksen
Contact:	Craig Owens							5	
	FCC Part 15		10					Class:	N/A
Spurious D	adiated Emi	scions							
	ng = 21dbm	5510115.							
Frequency	Level	Pol	15.20	9/15E	Detector	Azimuth	Height	Comments	
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
10359.530	56.6	V	68.3	-11.7	AVG	238	1.0	MHz; VB: 1	0 Hz
10358.870	68.7	V	88.3	-19.6	PK	238	1.0	MHz; VB: 1	MHz
10361.080	56.3	Н	68.3	-12.0	AVG	163	1.1	MHz; VB: 1	
10360.740	68.6	Н	88.3	-19.7	PK	163	1.1	MHz; VB: 1	MHz
	enter Chanr	iel							
5 <b>200MHz</b> C Te Te	Date of Test: st Engineer: est Location:	2/10/2009 Joseph Cad SVOATS #1	0						
5 <b>200MHz</b> E Te Te Spurious R	Date of Test: st Engineer: est Location: adiated Emi	2/10/2009 Joseph Cad SVOATS #1	0						
5 <b>200MHz</b> E Te Te Spurious R	Date of Test: st Engineer: est Location:	2/10/2009 Joseph Cad SVOATS #1	0	9 / 15E	Detector	Azimuth	Height	Comments	
5200MHz Te Te Spurious R Power Setti Frequency MHz	Date of Test: st Engineer: st Location: adiated Emi ng = 21dbm Level dBμV/m	2/10/2009 Joseph Cad SVOATS #1 <i>ssions:</i> Pol v/h	0	9 / 15E Margin	Pk/QP/Avg	Azimuth degrees	Height meters	Comments	
5200MHz Te Te Spurious R Power Setti Frequency MHz 10401.250	Date of Test: st Engineer: est Location: adiated Emi ng = 21dbm Level dBμV/m 58.8	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V	15.20 Limit 68.3	Margin -9.5	Pk/QP/Avg AVG	degrees 120	meters 1.4	MHz; VB: 1	
5200MHz Te Te Spurious R Power Setti Frequency MHz 10401.250 10399.580	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V	15.20 <sup>0</sup> Limit 68.3 88.3	Margin -9.5 -18.3	Pk/QP/Avg AVG PK	degrees 120 120	meters 1.4 1.4	MHz; VB: 1 MHz; VB: 1	MHz
200MHz E Te Te Spurious R Power Setti Frequency MHz 10401.250 10399.580 10400.820	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V H	15.20 <sup>0</sup> Limit 68.3 88.3 68.3	Margin -9.5 -18.3 -11.2	Pk/QP/Avg AVG PK AVG	degrees 120 120 163	meters 1.4 1.4 1.1	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz
5200MHz Te Te Spurious R Power Setti Frequency MHz 10401.250	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V	15.20 <sup>0</sup> Limit 68.3 88.3	Margin -9.5 -18.3	Pk/QP/Avg AVG PK	degrees 120 120	meters 1.4 1.4	MHz; VB: 1 MHz; VB: 1	MHz 0 Hz
5200MHz Te Te Te 5 5 5 5 5 5 5 5 5 5 5 5 5	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1 69.1 For emissior 27dBm/MHz	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V V H H H s in restricte (~68dBuV/n	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n).	Margin -9.5 -18.3 -11.2 -19.2	Pk/QP/Avg AVG PK AVG PK	degrees 120 120 163 163	meters 1.4 1.4 1.1 1.1 1.1	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz
5200MHz Te Te Te 5 5 5 5 5 5 5 5 5 5 5 5 5	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBμV/m 58.8 70.0 57.1 69.1 For emission	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V V H H H s in restricte (~68dBuV/n	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n).	Margin -9.5 -18.3 -11.2 -19.2	Pk/QP/Avg AVG PK AVG PK	degrees 120 120 163 163	meters 1.4 1.4 1.1 1.1 1.1	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz MHz
200MHz E Te Te Te Te <b>Spurious R</b> <b>Power Setti</b> Frequency MHz 10401.250 10401.250 10400.820 10400.820 10400.820 10401.140 Note 1: Run #1a: Hi <b>Spurious R</b> <b>Power Setti</b>	Date of Test: st Engineer: st Location: adiated Emi. adiated Emi. dBµV/m 58.8 70.0 57.1 69.1 For emission 27dBm/MHz gh Channel adiated Emi. ng = 21dbm	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V V H H H sin restricte (~68dBuV/n @ 5240MHz ssions:	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n).	Margin -9.5 -18.3 -11.2 -19.2	PK/QP/Avg AVG PK AVG PK 209 was used.	degrees 120 120 163 163 For all othe	meters 1.4 1.4 1.1 1.1 r emissions	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz MHz
200MHz E Te Te Te Frequency MHz 10401.250 10401.250 10400.820 10401.140 Note 1: Run #1a: Hi Spurious R Power Setti Frequency	Date of Test: st Engineer: st Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1 69.1 For emissior 27dBm/MHz gh Channel adiated Emi. ng = 21dbm Level	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V V H H sin restricte (~68dBuV/n @ 5240MHz ssions: Pol	15.20 <sup>0</sup> Limit 68.3 88.3 68.3 88.3 ed bands, the n).	Margin -9.5 -18.3 -11.2 -19.2 e limit of 15.2	PK/QP/Avg AVG PK AVG PK 209 was used.	degrees 120 120 163 163	meters 1.4 1.4 1.1 1.1 r emissions Height	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz MHz
200MHz Te Te Te Te <b>Spurious R</b> <b>Power Setti</b> Frequency MHz 10401.250 10401.250 10400.820 10400.820 10400.820 10400.820 10401.140 Note 1: <b>Run #1a: Hi</b> <b>Spurious R</b> <b>Power Setti</b> Frequency MHz	Date of Test: st Engineer: st Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1 69.1 For emissior 27dBm/MHz gh Channel adiated Emi. ng = 21dbm Level dBµV/m	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V V H H H sin restricte (~68dBuV/n @ 5240MHz ssions: Pol v/h	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n).	Margin -9.5 -18.3 -11.2 -19.2 e limit of 15.2 e limit of 15.2 Margin	Pk/QP/Avg AVG PK AVG PK 209 was used. 209 was used. Pk/QP/Avg	degrees 120 120 163 163 For all othe Azimuth degrees	meters 1.4 1.4 1.1 1.1 r emissions Height meters	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1	MHz 0 Hz MHz e limit was set to -
200MHz Te Te Te Te <b>Spurious R</b> <b>Power Setti</b> Frequency MHz 10401.250 10399.580 10400.820 10401.140 Note 1: Note 1: Run #1a: Hi <b>Spurious R</b> <b>Power Setti</b> Frequency MHz 10479.890	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1 69.1 For emissior 27dBm/MHz gh Channel adiated Emi. ng = 21dbm Level dBµV/m 59.9	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V V H H H s in restricte (~68dBuV/n @ 5240MHz ssions: Pol v/h V	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n). 15.20 Limit 68.3	Margin -9.5 -18.3 -11.2 -19.2 e limit of 15.2 e limit of 15.2 Margin -8.4	PK/QP/Avg AVG PK AVG PK 209 was used. 209 was used. PK/QP/Avg AVG	degrees 120 163 163 For all othe Azimuth degrees 360	meters 1.4 1.4 1.1 1.1 r emissions Height meters 1.4	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 , the average	MHz 0 Hz MHz e limit was set to -
5200MHz Te Te Te 50wer Setti Frequency MHz 10401.250 10399.580 10400.820 10401.140 Note 1: Note 1: Run #1a: Hi Spurious R Power Setti Frequency MHz 10479.890 10479.850	bate of Test: st Engineer: st Location: adiated Emi. ng = 21dbm Level dBμV/m 58.8 70.0 57.1 69.1 For emission 27dBm/MHz gh Channel adiated Emi. ng = 21dbm Level dBμV/m 59.9 72.7	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol V/h V V H H H is in restricter (~68dBuV/n @ 5240MHz ssions: Pol V/h V V	15.20 <sup>0</sup> Limit 68.3 88.3 68.3 88.3 ed bands, the n). 15.20 <sup>0</sup> Limit 68.3 88.3	Margin -9.5 -18.3 -11.2 -19.2 e limit of 15.2 e limit of 15.2 9 / 15E Margin -8.4 -15.6	PK/QP/Avg AVG PK AVG PK 209 was used. 209 was used. 209 was used. 209 was used. 209 was used. 209 was used.	degrees 120 120 163 163 For all othe For all othe Azimuth degrees 360 360	meters 1.4 1.4 1.1 1.1 r emissions Height meters 1.4 1.4	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 , the average Comments MHz; VB: 1 MHz; VB: 1	MHz 0 Hz MHz e limit was set to - 0 Hz MHz
5200MHz Te Te Te Te 50wer Setti Frequency MHz 10401.250 10399.580 10400.820 10400.820 10401.140 Note 1: Note 1: Run #1a: Hi Spurious R Power Setti Frequency MHz 10479.890	Date of Test: st Engineer: est Location: adiated Emi. ng = 21dbm Level dBµV/m 58.8 70.0 57.1 69.1 For emissior 27dBm/MHz gh Channel adiated Emi. ng = 21dbm Level dBµV/m 59.9	2/10/2009 Joseph Cad SVOATS #1 ssions: Pol v/h V V H H H s in restricte (~68dBuV/n @ 5240MHz ssions: Pol v/h V	15.20 Limit 68.3 88.3 68.3 88.3 ed bands, the n). 15.20 Limit 68.3	Margin -9.5 -18.3 -11.2 -19.2 e limit of 15.2 e limit of 15.2 Margin -8.4	PK/QP/Avg AVG PK AVG PK 209 was used. 209 was used. PK/QP/Avg AVG	degrees 120 163 163 For all othe Azimuth degrees 360	meters 1.4 1.4 1.1 1.1 r emissions Height meters 1.4	MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 MHz; VB: 1 , the average	MHz 0 Hz MHz e limit was set to - 0 Hz MHz 0 Hz

Ruckus Wireless         Dalmatian         Craig Owens         FCC Part 15.247/RSS-210         igh Channel @ 5260 MHz         Date of Test: 2/10/2009         st Engineer: Joseph Cadigal         est Location: SVOATS #1         adiated Emissions:         ng = 17dbm         Level       Pol       15.209         dBµV/m       v/h       Limit					Log Number: T73745 unt Manager: Dean Erikse Class: N/A
Craig Owens FCC Part 15.247/RSS-210 igh Channel @ 5260 MHz Date of Test: 2/10/2009 st Engineer: Joseph Cadigal est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209				Acco	-
FCC Part 15.247/RSS-210         igh Channel @ 5260 MHz         Date of Test: 2/10/2009         st Engineer: Joseph Cadigal         est Location: SVOATS #1         adiated Emissions:         ng = 17dbm         Level       Pol         15.209					Class: N/A
igh Channel @ 5260 MHz Date of Test: 2/10/2009 st Engineer: Joseph Cadigal est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209					Class: N/A
Date of Test: 2/10/2009 st Engineer: Joseph Cadigal est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209					
st Engineer: Joseph Cadigal est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209					
st Engineer: Joseph Cadigal est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209					
est Location: SVOATS #1 adiated Emissions: ng = 17dbm Level Pol 15.209					
ng = 17dbm Level Pol 15.209					
ng = 17dbm Level Pol 15.209					
Level Pol 15.209					
	/ 15E	Detector	Azimuth	Height	Comments
	Margin	Pk/QP/Avg	degrees	meters	
58.8 V 68.3	-9.5	AVG	360	1.7	MHz; VB: 10 Hz
71.6 V 88.3	-16.7	PK	360	1.7	MHz; VB: 1 MHz
55.7 H 68.3	-12.6	AVG	198	1.1	MHz; VB: 10 Hz
69.5 H 88.3	-18.8	PK	198	1.1	MHz; VB: 1 MHz

(CE	Ellic	ott				EM	C Test Data
	An 🕅 Ruckus Wir	Company Company	Job Number:	J73710			
Model <sup>.</sup>	Dalmatian				_	T-Log Number:	
-						Account Manager:	Dean Eriksen
	Craig Owen	s 5.247/RSS-21	10			Class:	N/A
Standard.	r o'o'r uit rt						
	RSS 2	10 and	FCC 15	5.407 (L	JNII) Radiated	Spurious Emi	ssions
Test Spec	cific Detai	ls					
	Objective:	The objective	e of this test listed above	session is to e.	perform final qualification	testing of the EUT with r	respect to the
Те	st Engineer:	Refer to indi Refer to indi Refer to indi	vidual run		Config. Used: Config Change: EUT Voltage:	none	
	d all local su	pport equipm			urntable for radiated spuri located 3 meters from the		
Ambient	Condition	S:		emperature: el. Humidity:			
Summary	of Result	ts			00 /0		
Run #	Mode	Channel	Power Setting	Measured Power	Test Performed	Limit	Result / Margin
	MCS0 HT40	5150-5250 Low	12.5dBm	-	Restricted Band Edge at 5150 MHz	15.209	53.9dBµV/m @ 5149.9MHz (-0.1dB)
1	MCS0 HT40	5150-5250 Low	20dBm	-	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	42.5dBµV/m @ 10381.4MHz (-25.8dB)
	MCS0 HT40	5150-5250 High	20dBm	-	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	41.9dBµV/m @ 10461.4MHz (-26.4dB)

Client         Ruckus Wireless         Job Number:         J73710           Collent         Ruckus Wireless         Job Number:         J73710           Model:         Daimatian         Account Manager:         Dean Eriksen           Contact:         Craig Owens         Class:         N/A           Addifications Made During Testing         Domotifications were made to the EUT during testing         Class:         N/A           Addifications were made to the EUT during testing         Deviations were made to the EUT during testing         Deviations were made to the EUT during testing           Deviations were made to the EUT during testing         Deviations were made to the equirements of the standard.         Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band           In MCS0 H140 mode         Date of Test:         2/10/2009 & 2/11/09         Test Engineer:         Joseph Cadiga/Rafael Varelas           Test Location:         SVOATS #1         Maturemental Steph Field Strength         Comments         MHz           Trequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBgu/Vm         vh         -         AVG         303         1.3         RB 1MHz: VB: 10 Hz           Stop 0700         95.6 <t< th=""><th>Æ</th><th></th><th>ott</th><th></th><th></th><th></th><th></th><th></th><th>EM</th><th>C Test Da</th></t<>	Æ		ott						EM	C Test Da	
Model:         Data Data         Account Manager         Dean Eriksen           Contact:         Craig Ovens         Calass:         N/A           Addifications Made During Testing         Calass:         N/A           Nodifications were made to the EUT during testing         Calass:         N/A           Deviations From The Standard         Io deviations were made from the requirements of the standard.           Num #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band         In MCS0 HT40 mode           Date of Test:         2/10/2009 & 2/11/09         Test Engineer:         Ioseph Cadiga/Rafael Varelas           Test Location:         SVOATS #1         Num #1a:         Level         Pol         15/209 / 15/247           Detector         Azimuth         Height         Comments         Mez           Trequency         Level         Pol         15/209 / 15/247         Detector         Azimuth         Height         Comments           MHz         dBju/Vm         Vh         Limit         Margin         PKOPA/Vag         degrees         meters           5207/07         95.6         V         -         AVG         303         1.3         RB 1 MHz. VB: 10 Hz           5207/07         95.6         V         -         AVG	An ZALIZS company								Job Number:	J73710	
Account Manage:         Dean Eriksen           Standard:         FCC Part 15.247/RSS-210         Class:         N/A           Account Manage::         Dean Eriksen           Criag Owens           Standard:         FCC Part 15.247/RSS-210         Class:         N/A           Modifications Made During Testing           Deviations From The Standard           Ide of The Esting Deviations were made to the EUT during testing           Deviations From The Standard           Ide of Test:: 2/10/2009 & 2/11/09           Test Engineer: Joseph Cadigal/Rafael Varelas           Test Location: SVOATS #1           Rum #1a: Low Channel @ 5190 MHz           Information Signal Field Strength           Tegency Level Pol           Tegency Level Pol           Detector         Azimuth           MHz         digit/M           MHz         Margin           Provency Level         Pol           State Cadigat/Rafael Varelas           Tegency Level         Pol           State Cadigat/Rafael Varelas           State Cadigat/Rafael Varelas <tr< td=""><td>Medal</td><td>Delmetien</td><td></td><td></td><td></td><td></td><td></td><td>Ţ.</td><td>Log Number:</td><td>T73745</td></tr<>	Medal	Delmetien						Ţ.	Log Number:	T73745	
Standard:         Class: N/A           Addifications Made During Testing           Jour outling Testing           Low outlifications were made to the EUT during testing           Deviations From The Standard           Identifications were made from the requirements of the standard.           Review of Test: 2/10/2009 & 2/11/09           Test Engineer: Joseph Cadigal/Rafael Varelas           Test Location: SVOATS #1           Rum #1a: Low Channel @ 5190 MHz           Immediate Signal Field Strength           Tequency           Level           Pol           Strengt Device Test Signal Field Strength           Tequency           Level           Pol           Strength           Teguency           Level           Pol           Strength           Control 9           Strength           Teguency           Level           Pol           FCC 15.209           Detector      <	woder:	Daimatian						Acco	unt Manager:	Dean Eriksen	
Addifications       Made During Testing Io modifications were made to the EUT during testing         Deviations       From The Standard Io deviations were made from the requirements of the standard.         Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band In MCS0 HT40 mode         Date of Test:       2/10/2009 & 2/11/09 Test Engineer:         Test Engineer:       Joseph Cadigal/Rafael Varelas Test Location:         Stratt       Stratt         War #1a: Low Channel @ 5190 MHz         "indemntal Signal Field Strength"         Terguency       Level       Pol         T5181.600       10.4.4       V         V       -       PK       303         Still Add Du/A.       V       -         PK       350       1.7         RB 1 MHz; VB: 10 Hz       Still Add Du/A.         Still Add Du/A.       V       -         PK       350       1.7       RB 1 MHz; VB: 10 Hz         Still Add Du/A.       V       -       PK       350       1.7         Still Add Du/A.       V       -       PK       350       1.7<	Contact:										
lo modifications were made to the EUT during testing Deviations From The Standard Io deviations were made from the requirements of the standard. In MCS0 HT40 mode Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1 Point 15:209 / 15:247 Detector Azimuth Height Comments MHz dB <sub>2</sub> U/m v/h Limit Margin Pk/QP/Avg degrees meters F207.070 95.6 V AVG 303 1.3 RB 1 MHz; VB: 10 Hz 5207.070 95.6 V AVG 303 1.3 RB 1 MHz; VB: 10 Hz 5207.070 95.6 V PK 303 1.3 RB 1 MHz; VB: 10 Hz 5206.730 91.7 H - PK 350 1.7 RB 1 MHz; VB: 10 Hz 5206.730 91.7 H - PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.830 69.2 V 74.0 4.8 PK 303 1.3 RB 1 MHz; VB: 10 Hz 5148.830 69.2 V 74.0 4.8 PK 303 1.3 RB 1 MHz; VB: 10 Hz 5148.830 69.2 V 74.0 4.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.990 61.2 V 74.0 4.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 61.2 V 74.0 514.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 61.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 61.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.3 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 350 1.7 RB 1 MHz; VB: 10 Hz 5148.930 51.2 V 74.0 54.8 PK 51.3 S 51.8 S 51.								Class:	N/A		
Deviations From The Standard           to deviations were made from the requirements of the standard.           Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band In MCS0 HT40 mode           Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1           Run #1a: Low Channel @ 5190 MHz           Standamental Signal Field Strength           Frequency         Level           Pol         15.209 / 15.247           Detector         Azimuth           Height         Comments           MHz         dBµ//m           Vih         Limit           Margin         Pk/OP/Avg           5207.070         95.6           V         -           AVG         303           5207.070         83.5           H         -           S206.730         91.7           H         -           S206.730         91.7           H         -           Frequency         Level           Pol         FCC 15.209           Detector         Azimuth           Height         Comments           MHz         dBµ.V/m           Stras 30         0.1			•	0							
lo deviations were made from the requirements of the standard. Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band In MCS0 HT40 mode Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1 Run #1a: Low Channel @ 5190 MHz Sundanental Signal Field Strength Trequency Level Pol 15.209/15.247 Detector Azimuth Height Comments MHz dBuV/m v/h Limit Margin Pk/OP/Avg degrees meters 5207.070 95.6 V AVG 303 1.3 RB 1 MHz: VB: 10 Hz 5207.070 95.6 V PK 3003 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 RJ 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5206.730 91.7 H PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.830 69.2 V 74.0 -4.8 PK 303 1.3 RB 1 MHz: VB: 10 Hz 5148.830 69.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.830 69.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 350 1.7 RB 1 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 130 1.3 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 10 1.0 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 10 1.0 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 10 1.0 MHz: VB: 10 Hz 5148.790 61.2 V 74.0 -12.8 PK 10 1.0 MHz: VB: 10 Hz 5148.790 61.2 V 81.1 MHz 5148.10 MHz VB: 10 Hz 51	No modificat	ions were ma	ade lo lhe El	Ji during tes	sung						
Run #1, Radiated Spurious Emissions, 30 - 40,000 MH. Operation in the 5150-5250 MHz Band In MCS0 HT40 mode           Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1           Run #1a: Low Channel @ 5190 MHz           Summental Signal Field Strength           Trequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBµV/m         Vh         Limit         Margin         Pk/OP/Avg         degrees         meters         5207.070         95.6         V         -         AVG         303         1.3         RB 1 MHz: VB: 10 Hz         5207.070         95.5         H         -         -         AVG         303         1.3         RB 1 MHz: VB: 10 Hz         5207.070         95.5         H         -         -         PK         303         1.3         RB 1 MHz: VB: 10 Hz           5207.070         95.5         H         -         -         PK         303         1.3         RB 1 MHz: VB: 10 Hz           5207.070         95.5         H         -         -         PK         303         1.3         RB 1 MHz: VB: 10 Hz           5207.070         95.5         V         54.0<					fthe standa	rd					
In MCS0 HT40 mode           Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1           Run #1a: Low Channel @ 5190 MHz           Comments           MHz           Comments           MHz           Comments           Comments           MHz         Comments           Comments           MHz         Comments           Comments           MHz         Comments           Comments           MHz         Comments           MHz         Comments           MHz         Comments           Comments <t< td=""><td></td><td>s were made</td><td></td><td>quirements c</td><td>i ine standa</td><td>IU.</td><td></td><td></td><td></td><td></td></t<>		s were made		quirements c	i ine standa	IU.					
In MCS0 HT40 mode           Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1           Run #1a: Low Channel @ 5190 MHz           Comments           MHz           Comments           MHz           Comments           Comments           MHz         Comments           Comments           MHz         Comments           Comments           MHz         Comments           Comments           MHz         Comments           MHz         Comments           MHz         Comments           Comments <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Date of Test: 2/10/2009 & 2/11/09         Test Engineer: Joseph Cadigal/Rafael Varelas         Test Location: SVOATS #1         Run #1a: Low Channel @ 5190 MHz         Commental Signal Field Strength         Frequency       Level       Pol       15.207 / 15.247       Detector       Azimuth       Height       Comments         MHz       dBu//m       V/       -       AVG       303       1.3       RB 1 MHz; VB: 10 Hz         Signal Radiated Field Strength         Frequency       Level       Pol       FCC 15.209       Detector       Azimuth       Height       Comments         MHz       dBµ//m       v/h       Limit       Margin       PK/OP/Avg       degrees       meters         Signal Radiated Field Strength         Frequency       Level       Pol       FCC 15.209       Detector       Azimuth       Height       Comments         MHz       dBµ//m       v/h       Limit       Margin       PK/OP/Avg       degrees       meters         Site Signal Radiated Field			ous Emissio	ons, 30 - 40,	000 MH. Op	eration in the	5150-5250	MHz Band			
Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1         Run #1a: Low Channel @ 5190 MHz         Standard Signal Field Strength         Trequency       Level       Pol       15.209 / 15.247       Detector       Azimuth       Height       Comments         MHz       dBµV/m       Vh       Limit       Margin       PK/QP/Avg       degrees       meters         5207.070       95.6       V       -       AVG       303       1.3       RB 1 MHz; VB: 10 Hz       5207.070       83.5       H       -       AVG       350       1.7       RB 1 MHz; VB: 10 Hz       5206.730       91.7       H       -       -       PK       350       1.7       RB 1 MHz; VB: 10 Hz       5107.07       83.5       H       -       -       AVG       AVG       1.7       RB 1 MHz; VB: 10 Hz       5107.07 <t< td=""><td></td><td>1140 mode</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		1140 mode									
Test Engineer: Joseph Cadigal/Rafael Varelas Test Location: SVOATS #1         Run #1a: Low Channel @ 5190 MHz         Standard Signal Field Strength         Trequency       Level       Pol       15.209 / 15.247       Detector       Azimuth       Height       Comments         MHz       dBµV/m       Vh       Limit       Margin       PK/QP/Avg       degrees       meters         5207.070       95.6       V       -       AVG       303       1.3       RB 1 MHz; VB: 10 Hz       5207.070       83.5       H       -       AVG       350       1.7       RB 1 MHz; VB: 10 Hz       5206.730       91.7       H       -       -       PK       350       1.7       RB 1 MHz; VB: 10 Hz       5107.07       83.5       H       -       -       AVG       AVG       1.7       RB 1 MHz; VB: 10 Hz       5107.07 <t< td=""><td>Г</td><td>ate of Test</td><td>2/10/2009 &amp;</td><td>2/11/09</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Г	ate of Test	2/10/2009 &	2/11/09							
Test Location: SVOATS #1           Run #1a: Low Channel @ 5190 MHz           Sundamental Signal Field Strength           Tequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBµV/m         vh         Limit         Margin Pk/QP/Avg         degrees         meters           5207.070         95.6         V         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         AVG         350         1.7         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         AVG         350         1.7         RB 1 MHz; VB: 10 Hz         520.730         91.7         H         Colspan="2">Colspan= 2         V         7         7           Frequency <td colspa<="" td=""><td></td><td></td><td></td><td></td><td>'arelas</td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td>'arelas</td> <td></td> <td></td> <td></td> <td></td> <td></td>					'arelas					
Fundamental Signal Field Strength           Frequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           5207.070         95.6         V         -         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5106.0730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5140.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5149.900         53.9         V         54.0         -5.6         Avg         350         1.7 <td></td> <td>0</td> <td></td> <td>J</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		0		J							
Fundamental Signal Field Strength           Frequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           5207.070         95.6         V         -         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5106.730         91.7         H         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5140.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5149.900         53.9         V         54.0         -5.6         Avg         350         1.7											
Frequency         Level         Pol         15.209 / 15.247         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5207.070         95.6         V         -         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         -         AVG         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5109.00         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5149.900         51.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830											
MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5207.070         95.6         V         -         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         -         PK         303         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5145.00.0         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790					115 047						
5207.070         95.6         V         -         -         AVG         303         1.3         RB 1 MHz; VB: 10 Hz           5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5207.070         83.5         H         -         -         PK         303         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5140.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 10 Hz			-					<u> </u>	Comments		
5181.600         104.4         V         -         -         PK         303         1.3         RB 1 MHz; VB: 1 MHz           5207.070         83.5         H         -         -         AVG         350         1.7         RB 1 MHz; VB: 1 MHz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 1 MHz           5100 MHz Band Edge Signal Radiated Field Strength         -         PK         350         1.7         RB 1 MHz; VB: 1 MHz           6100 MHz Band Edge Signal Radiated Field Strength         -         PK         350         1.7         RB 1 MHz; VB: 1 MHz           6110 MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:					Margin	U	ŭ			/D 1011-	
5207.070         83.5         H         -         -         AVG         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5105         MHz         Band Edge Signal Radiated Field Strength         -         -         PK         350         1.7         RB 1 MHz; VB: 10 Hz           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 10 Hz           Sourcious Radiated Emissions:         -         -         74.0         -12.8         PK         120         1.0 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>					-						
5206.730         91.7         H         -         -         PK         350         1.7         RB 1 MHz; VB: 1 MHz           6150 MHz Band Edge Signal Radiated Field Strength         Frequency         Level         Pol         FCC 15.209         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:           Yower Setting = 20dBm           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz <td></td>											
Site         Site <t< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>				-	-						
Frequency         Level         Pol         FCC 15.209         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 10 Hz           Spurious Radiated Emissions:         Power Setting = 20dBm         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5	3200.730	91.7	Π	-	-	۲N	300	1.7	KD I IVINZ,	VD. I IVINZ	
Frequency         Level         Pol         FCC 15.209         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 10 Hz           Spurious Radiated Emissions:         Power Setting = 20dBm         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5	5150 MHz B	and Fdae S	ional Radia	ted Field Sti	renath						
MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 1 MHz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:         Power Setting = 20dBm         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 10 Hz		· · ·	•			Detector	Azimuth	Heiaht	Comments		
5149.900         53.9         V         54.0         -0.1         Avg         303         1.3         RB 1 MHz; VB: 10 Hz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 10 Hz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 10 Hz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:           Cover Setting = 20dBm           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         68.3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>oommento</td> <td></td>									oommento		
States         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 1 MHz           5148.830         69.2         V         74.0         -4.8         PK         303         1.3         RB 1 MHz; VB: 1 MHz           5147.310         48.4         H         54.0         -5.6         Avg         350         1.7         RB 1 MHz; VB: 1 MHz           5148.790         61.2         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:         V         74.0         -12.8         PK         350         1.7         RB 1 MHz; VB: 1 MHz           Spurious Radiated Emissions:         Pool         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910									RB 1 MHz <sup>.</sup> \	/B <sup>.</sup> 10 Hz	
5147.310       48.4       H       54.0       -5.6       Avg       350       1.7       RB 1 MHz; VB: 10 Hz         5148.790       61.2       V       74.0       -12.8       PK       350       1.7       RB 1 MHz; VB: 1 MHz         Spurious Radiated Emissions:         Cover Setting = 20dBm         Frequency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         10381.370       42.5       V       68.3       -25.8       AVG       120       1.0       MHz; VB: 10 Hz         10378.910       53.5       V       88.3       -34.8       PK       120       1.0       MHz; VB: 10 Hz         10381.470       42.5       H       68.3       -25.8       AVG       113       1.3       MHz; VB: 10 Hz         10379.570       53.5       H       88.3       -34.8       PK       113       1.3       MHz; VB: 10 Hz         Iota 1:       For emissions in restricted bands, the limit of 15.209 was used.       For all other emissions, the average limit was set to -			=			<u> </u>					
5148.790       61.2       V       74.0       -12.8       PK       350       1.7       RB 1 MHz; VB: 1 MHz         Spurious Radiated Emissions:       Power Setting = 20dBm       Power Setting = 20dBm         Frequency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         10381.370       42.5       V       68.3       -25.8       AVG       120       1.0       MHz; VB: 10 Hz         10378.910       53.5       V       88.3       -34.8       PK       120       1.0       MHz; VB: 10 Hz         10381.470       42.5       H       68.3       -25.8       AVG       113       1.3       MHz; VB: 10 Hz         10381.470       42.5       H       68.3       -34.8       PK       113       1.3       MHz; VB: 10 Hz         10379.570       53.5       H       88.3       -34.8       PK       113       1.3       MHz; VB: 10 Hz         Iota 1:       For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -											
Spurious Radiated Emissions:           Power Setting = 20dBm           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 1 MHz           10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 1 MHz           Iote 1:         For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -         -	5148.790										
Prover Setting = 20dBm           Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 10 Hz           10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 1 MHz           For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -					•				. ,		
Frequency         Level         Pol         15.209 / 15E         Detector         Azimuth         Height         Comments           MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 1 MHz           10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 10 Hz           103879.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           Iota 1:         For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -         Iota 1:         Iota 1:         Iota 2:											
MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           10381.370         42.5         V         68.3         -25.8         AVG         120         1.0         MHz; VB: 10 Hz           10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 1 MHz           10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 1 MHz           10387.970         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           Iota 1:         For emissions in restricted bands, the limit of 15.209 was used.         For all other emissions, the average limit was set to -         -	Power Setti	ng = 20dBm									
10381.370       42.5       V       68.3       -25.8       AVG       120       1.0       MHz; VB: 10 Hz         10378.910       53.5       V       88.3       -34.8       PK       120       1.0       MHz; VB: 1 MHz         10381.470       42.5       H       68.3       -25.8       AVG       113       1.3       MHz; VB: 10 Hz         10379.570       53.5       H       88.3       -34.8       PK       113       1.3       MHz; VB: 10 Hz         10379.570       53.5       H       88.3       -34.8       PK       113       1.3       MHz; VB: 1 MHz	Frequency	Level	Pol	15.20	9/15E	Detector		Height	Comments		
10378.910         53.5         V         88.3         -34.8         PK         120         1.0         MHz; VB: 1 MHz           10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 1 0 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 1 0 Hz           Integration of the second se					× ×	Ŭ					
10381.470         42.5         H         68.3         -25.8         AVG         113         1.3         MHz; VB: 10 Hz           10379.570         53.5         H         88.3         -34.8         PK         113         1.3         MHz; VB: 10 Hz           Integration of the second	10381.370										
10379.570       53.5       H       88.3       -34.8       PK       113       1.3       MHz; VB: 1 MHz         Intent:         For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -	10378.910										
For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit was set to -	10381.470										
	10379.570	53.5	Н	88.3	-34.8	PK	113	1.3	MHz; VB: 1	MHz	
	I	For emission	ns in restricte	d bands the	limit of 15.2	09 was used	For all othe	r emissions	the average	limit was set to -	
				'/·							





Art ACEST company         Other Ruckus Wireless         Job Number: 1737         Model:       balmatian       Account Manager:       Dean         Contact:       Craig Owens         Contin:       State ThisSions:     <	45
Model:       Dalifiatian       Account Manager:       Dean         Contact:       Craig Owens	
Contact:       Craig Owens       Account Manager: Dean         Standard:       FCC Part 15.247/RSS-210       Class:       N/A         un #1b:       High Channel @ 5230 MHz       Class:       N/A         power Setting = 20dBm       Date of Test:       2/10/2009       Test Engineer:       Joseph Cadigal         Test Location:       SVOATS #1       Svoer Setting = 20dbm       Svoer Setting = 20dbm         requency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         0460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 1 MHz         For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	Eriksen
Standard:       FCC Part 15.247/RSS-210       Class:       N/A         un #1b:       High Channel @ 5230 MHz       Date of Test:       2/10/2009       Date of Test:       2/10/2009         Test Engineer:       Joseph Cadigal       Test Location:       SVOATS #1         purious Radiated Emissions:       Detector       Azimuth       Height       Comments         ower Setting = 20dbm       requency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         0461.420       41.9       V       68.3       -26.4       AVG       219       1.0       MHz; VB: 10 Hz         0460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 1 MHz         For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
un #1b: High Channel @ 5230 MHz bwer Setting = 20dBm Date of Test: 2/10/2009 Test Engineer: Joseph Cadigal Test Location: SVOATS #1 burious Radiated Emissions: bwer Setting = 20dbm requency Level Pol 15.209 / 15E Detector Azimuth Height Comments MHz dBµV/m v/h Limit Margin Pk/QP/Avg degrees meters 0461.420 41.9 V 68.3 -26.4 AVG 219 1.0 MHz; VB: 10 Hz 0460.340 53.1 V 88.3 -35.2 PK 219 1.0 MHz; VB: 1 MHz pto 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
Date of Test: 2/10/2009         Test Engineer: Joseph Cadigal         Test Location: SVOATS #1         Durious Radiated Emissions:         Dwer Setting = 20dbm         requency       Level         Pol       15.209 / 15E         Detector       Azimuth         Height       Comments         MHz       dBµV/m       v/h         Limit       Margin       Pk/QP/Avg       degrees         0461.420       41.9       V       68.3       -26.4         0460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 10 Hz         Note 1:       For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.       For all other emissions, the average limit of 15.209 was used.	
Test Engineer: Joseph Cadigal Test Location: SVOATS #1         Durious Radiated Emissions: over Setting = 20dbm         requency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         0461.420       41.9       V       68.3       -26.4       AVG       219       1.0       MHz; VB: 10 Hz         0460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 1 MHz         Test Engineer: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
Test Location: SVOATS #1         Durious Radiated Emissions:         ower Setting = 20dbm         requency       Level       Pol       15.209 / 15E       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         0461.420       41.9       V       68.3       -26.4       AVG       219       1.0       MHz; VB: 10 Hz         0460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 1 MHz         Toto 1:       For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
burious Radiated Emissions:ower Setting = 20dbmrequencyLevelPol15.209 / 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters0461.42041.9V68.3-26.4AVG2191.0MHz; VB: 10 Hz0460.34053.1V88.3-35.2PK2191.0MHz; VB: 1 MHzFor emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
bower Setting = 20dbmrequencyLevelPol15.209 / 15EDetectorAzimuthHeightCommentsMHzdB $\mu$ V/mv/hLimitMarginPk/QP/Avgdegreesmeters0461.42041.9V68.3-26.4AVG2191.0MHz; VB: 10 Hz0460.34053.1V88.3-35.2PK2191.0MHz; VB: 1 MHzFor emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
requencyLevelPol15.209 / 15EDetectorAzimuthHeightCommentsMHzdBµV/mv/hLimitMarginPk/QP/Avgdegreesmeters0461.42041.9V68.3-26.4AVG2191.0MHz; VB: 10 Hz0460.34053.1V88.3-35.2PK2191.0MHz; VB: 1 MHzFor emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           0461.420         41.9         V         68.3         -26.4         AVG         219         1.0         MHz; VB: 10 Hz           0460.340         53.1         V         88.3         -35.2         PK         219         1.0         MHz; VB: 1 MHz           For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.	
D460.340       53.1       V       88.3       -35.2       PK       219       1.0       MHz; VB: 1 MHz         No. 1:       For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit of 15.209 was used.       For all other emissions, the average limit of 15.209 was used.	
For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit	
For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the average limit to	



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Client:	Ruckus Wireless	Job Number:	J73710
Model	Dalmatian	T-Log Number:	T73745
MOUEI.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	В

#### **Radiated Emissions - Receive Mode**

#### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 2/10/2009 & 2/11/09 Test Engineer: Joseph Cadigal/R. Varelas Test Location: SVOATS #1 / Chamber #2

Config. Used: 1 Config Change: none EUT Voltage: 120V/60Hz

#### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated emissions testing. Remote support equipment was located approximately 30 meters from the test area with all I/O connections running on top of the groundplane.

The test distance and extrapolation factor (if applicable) are detailed under each run description.

Note, **preliminary** testing indicates that the emissions were maximized by orientation of the EUT and elevation of the measurement antenna. **Maximized** testing indicated that the emissions were maximized by orientation of the EUT, elevation of the measurement antenna, <u>and</u> manipulation of the EUT's interface cables.

Ambient Conditions:	Temperature:	20 °C
	Rel. Humidity:	38 %

#### Summary of Results

Run #	Test Performed	Limit	Result	Morgin
		LIIIIIL	Result	Margin
2 - RX on 5200 MHz	RE, 30 - 1000MHz, Maximized	RSS GEN	Pass	28.9dBµV/m@
Legacy Mode	Emissions	NOO OEN	1 435	153.215MHz (-14.6dB)
3a - RX on 5200 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Pass	44.1dBµV/m @
Legacy Mode	Emissions	K33 GEN	F 855	6933.4MHz (-9.9dB)
3b - RX on 5200 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Dece	46.0dBµV/m@
HT40 Mode	Emissions	K33 GEN	Pass	6933.4MHz (-8.0dB)
5 - RX on 5300 MHz	RE, 30 - 1000MHz, Maximized	RSS GEN	Dece	26.9dBµV/m@
Legacy Mode	Emissions	K33 GEN	Pass	53.771MHz (-13.1dB)
6a - RX on 5300 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Deee	50.9dBµV/m@
Legacy Mode	Emissions	K33 GEN	Pass	7066.7MHz (-3.1dB)
6b - RX on 5300 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Deee	50.7dBµV/m@
HT40 Mode	Emissions	K33 GEN	Pass	7066.7MHz (-3.3dB)
8 - RX on 5600 MHz	RE, 30 - 1000MHz, Maximized	RSS GEN	Dece	26.0dBµV/m@
Legacy Mode	Emissions	K33 GEN	Pass	53.847MHz (-14.0dB)
9a - RX on 5600 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Dece	49.7dBµV/m @
Legacy Mode	Emissions	KOO GEN	Pass	7466.7MHz (-4.3dB)
9b - RX on 5600 MHz	RE, 1000 - 18000MHz, Maximized	RSS GEN	Docc	49.9dBµV/m@
HT40 Mode	Emissions	KOO GEN	Pass	7466.7MHz (-4.1dB)

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Client:	Ruckus Wireless	Job Number:	J73710					
Model	Dalmatian	T-Log Number:	T73745					
MOUCH.		Account Manager:	Dean Eriksen					
Contact:	Craig Owens							
Standard:	FCC Part 15.247/RSS-210	Class:	В					
	a life a line of Market Device Tradition							

#### Modifications Made During Testing

No modifications were made to the EUT during testing

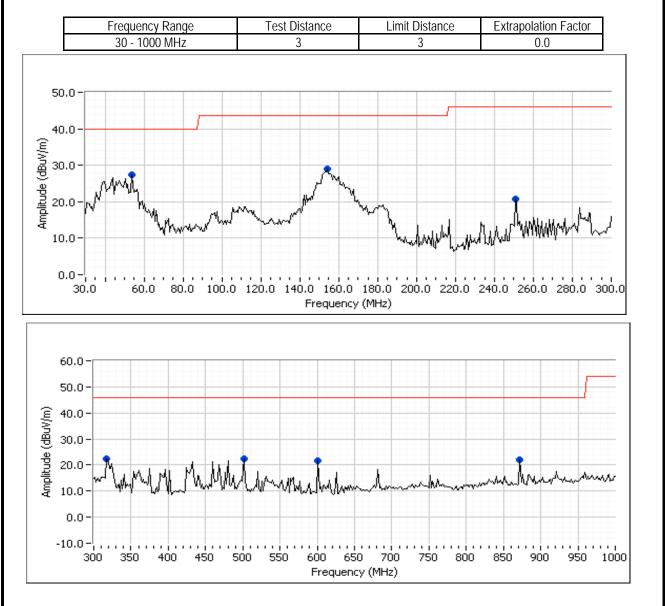
#### **Deviations From The Standard**

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No deviations were made from the requirements of the standard.

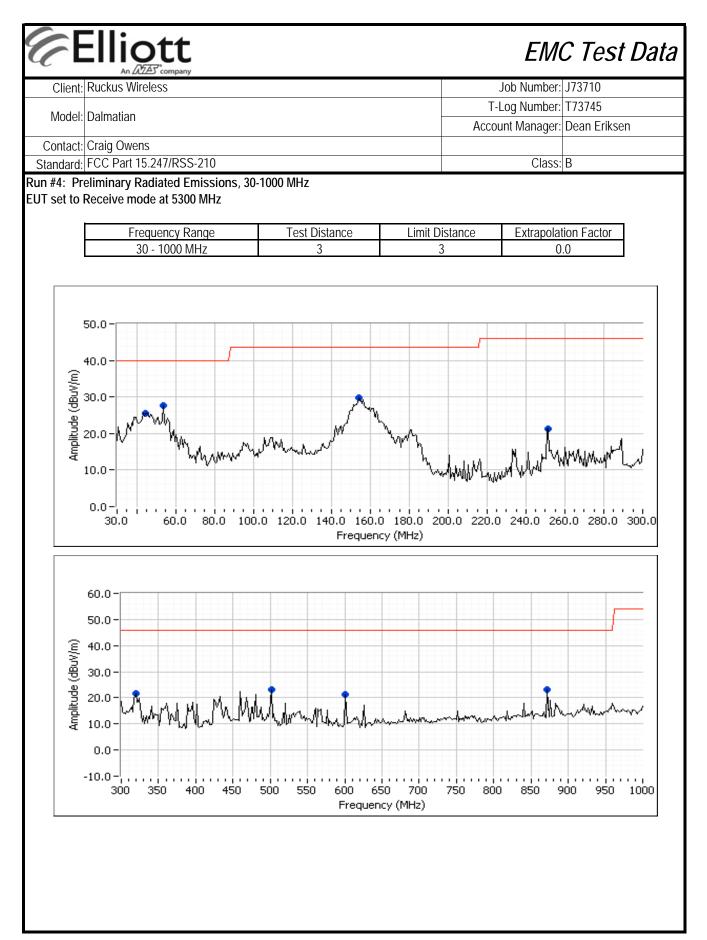
#### Run #1: Preliminary Radiated Emissions, 30-1000 MHz

EUT set to Receive mode at 5200 MHz



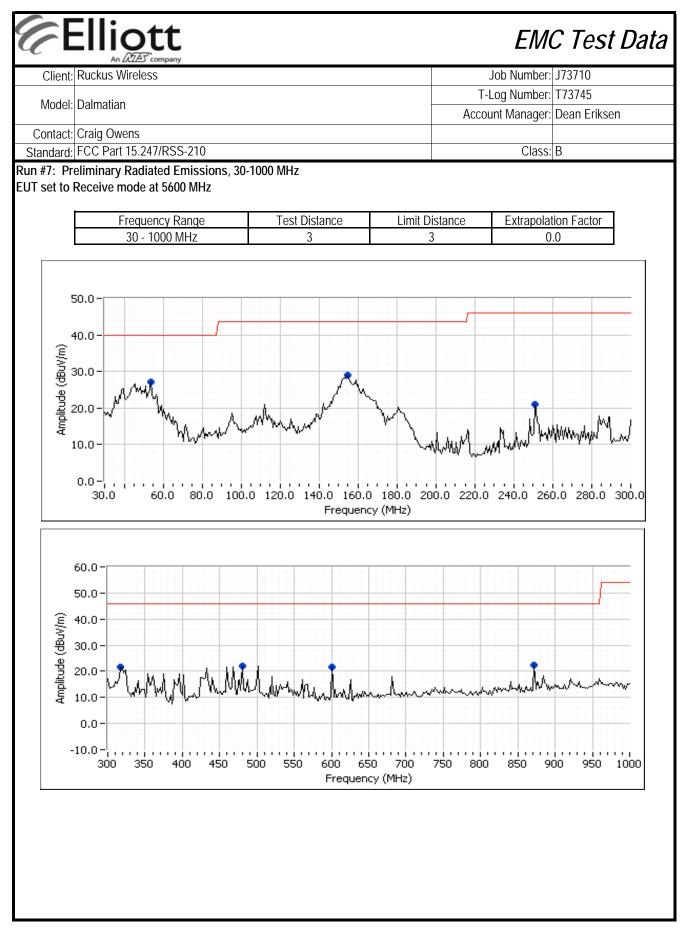
Model:         Dalmatian         T-Log Number:         T73745           Contact:         Craig Owens         Image:         Dean Erikse           Standard:         FCC Part 15.247/RSS-210         Class:         B           Mr 11:         Preliminary Radiated Emissions, 30-1000 MHz         Class:         B           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBuV/m         vh         Limit         Margin         Pk/OP/Avg         degrees         meters         53.938         27.1         1.7            53.938         27.3         V         40.0         -22.8         Peak         61         1.7            53.938         23.2         H         46.0         -22.8         Peak         298         1.7            500.006         23.1         H         46.0         -22.2         Peak         269         1.7             250.013         20.8         H         46.0         -25.2         Peak         269         1.7             53.938         24.5         V         40.0         -15.5		Ruckus Wire	eless						Job Number:	J73710
Account Manager:         Dean Erikse           Standard:         FCC Part 15.247/RSS-210         Class:         B           Run #1:         Preliminary Radiated Emissions, 30-1000 MHz         Erequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dB <sub>µ</sub> V/m         v/h         Limit         Margin         Pk/QP/Avq         degrees         meters           53.938         27.3         V         40.0         -22.8         Peak         211         1.7           153.215         29.1         H         46.0         -22.8         Peak         61         1.7           500.006         23.1         H         46.0         -22.8         Peak         298         1.7           319.041         21.8         V         46.0         -24.2         Peak         269         1.7           250.013         20.8         H         46.0         -25.2         Peak         269         1.7           S13.938         24.5         V         40.0         -15.5         OP         271         1.7           S3.938         24.5         V         40.0         -15.5         OP         271	Model	Dalmatian						Ţ.	Log Number:	T73745
Standard: FCC Part 15 247/RSS-210         Class: B           Class: B           Standard: FCC Part 15 247/RSS-210         Class: B           Standard: FCC Part 15 247/RSS-210         Class: B           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           53.938         27.3         V         40.0         -12.7         Peak         271         1.7           153.215         29.1         H         43.0         -22.9         Peak         231         1         46.0         -22.9         Peak         280         1.7           50.006         23.1         H         46.0         -26.9         1.7           Standard Readings From Run #1           Frequency Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           Frequency         Level	Model	Daimatian						Ассо	unt Manager:	Dean Erikser
Run #1: Preliminary Radiated Emissions, 30-1000 MHz         Detector         Azimuth         Height         Comments           MHz         dBuV/m         V/h         Limit         Margin         Pk/QP/Avg         degrees         meters           53.938         27.3         V         40.0         -12.7         Peak         231         1.7           153.215         29.1         H         43.5         -14.4         Peak         238         1.7           500.006         23.1         H         46.0         -22.8         Peak         61         1.7           500.006         23.1         H         46.0         -22.9         Peak         298         1.7           600.005         21.1         V         46.0         -24.2         Peak         269         1.7           250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Rum#2: Maximized Readings From Rum #1           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBuV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         <										
Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dB <sub>L</sub> V/m         v/h         Limit         Marqin         PkQP/Avq         degrees         metrs           53.938         27.3         V         40.0         -12.7         Peak         271         1.7           153.215         29.1         H         43.5         -11.4         Peak         611         1.7           873.468         23.2         H         46.0         -22.8         Peak         611         1.7           500.006         23.1         H         46.0         -24.2         Peak         269         1.7           600.005         21.1         V         46.0         -25.2         Peak         269         1.7           Stor005         21.1         V         46.0         -25.2         Peak         299         1.7           Run#2:         Maximized Readings From Run#1         Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MH2         dB <sub>µ</sub> V/m         Vh         Limit         Margin         Pk/QP/Avq         degrees<									Class:	В
MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           53.938         27.3         V         40.0         -12.7         Peak         271         1.7           153.215         29.1         H         43.5         -14.4         Peak         238         1.7           153.215         29.1         H         46.0         -22.8         Peak         61         1.7           500.006         23.1         H         46.0         -22.9         Peak         331         1.7           319.041         21.8         V         46.0         -22.2         Peak         298         1.7           600.005         21.1         V         46.0         -25.2         Peak         299         1.7           S20.013         20.8         H         46.0         -25.2         Peak         299         1.7           S3.938         24.5         V         40.0         -15.5         QP         238         1.7           53.215         28.9         H         43.5         -14.6         QP         238         1.7           53.235         28.9         H         43.5	Run #1: Pi	eliminary Ra	idiated Em							
53.938         27.3         V         40.0         -12.7         Peak         271         1.7           153.215         29.1         H         43.5         -14.4         Peak         238         1.7           873.468         23.2         H         46.0         -22.8         Peak         61         1.7           300.006         23.1         H         46.0         -22.9         Peak         331         1.7           319.041         21.8         V         46.0         -24.2         Peak         298         1.7           600.005         21.1         V         46.0         -25.2         Peak         269         1.7           250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Rum#2: Maximized Readings From Run #1           Frequency Level Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHZ         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7	Frequency	Level	Pol	RSS	Gen	Detector	Azimuth	Height	Comments	
153.215         29.1         H         43.5         -14.4         Peak         238         1.7           873.468         23.2         H         46.0         -22.8         Peak         61         1.7           500.006         23.1         H         46.0         -22.9         Peak         331         1.7           500.005         21.1         V         46.0         -22.9         Peak         269         1.7           600.005         21.1         V         46.0         -24.2         Peak         299         1.7           250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Rum#2: Maximized Readings From Run #1           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           Stage requency Range         Test Distance         Limit Distance         Extrapolation Factor										
873.468         23.2         H         46.0         -22.8         Peak         61         1.7           500.006         23.1         H         46.0         -22.9         Peak         331         1.7           319.041         21.8         V         46.0         -24.2         Peak         298         1.7           600.005         21.1         V         46.0         -24.2         Peak         299         1.7           250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Run #2:         Maximized Readings From Run #1         Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         OP         238         1.7           Saya8         24.5         V         40.0         -15.5         OP         271         1.7           Saya8         24.5         V         40.0         -15.5         OP         271         1.7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>						-				
500.006         23.1         H         46.0         -22.9         Peak         331         1.7           319.041         21.8         V         46.0         -24.2         Peak         298         1.7           600.005         21.1         V         46.0         -24.2         Peak         269         1.7           250.013         20.8         H         46.0         -25.2         Peak         269         1.7           Run#2:         Maximized Readings From Run#1         Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           Sayas         24.5         V         40.0         -15.5         QP         271         1.7           Run #3a:         Maximized readings, 1000 - 18000 MHz         3         3         0.0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           10000 - 18000 MHz         3         3 <td></td>										
319.041       21.8       V       46.0       -24.2       Peak       298       1.7         600.005       21.1       V       46.0       -24.9       Peak       269       1.7         250.013       20.8       H       46.0       -25.2       Peak       299       1.7         Rum#2: Maximized Readings From Run #1         Frequency       Level       Pol       RSS Gen       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         153.215       28.9       H       43.5       -14.6       QP       238       1.7         Statistical readings, 1000 - 18000 MHz         EUT set to Receive mode at 5200 MHz, Lagacy Mode         Frequency Range       Test Distance       Limit Distance       Extrapolation Factor         1000 - 18000 MHz       3       3       0.0       0       0.0         Frequency Range       Test Distance       Limit Distance       Extrapolation Factor         1000 - 18000 MHz       3       3       0.0       0       0       0.0										
600.005         21.1         V         46.0         -24.9         Peak         269         1.7           250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Rum#2: Maximized Readings From Run #1           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBjuV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           Requency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         0.0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         0         0           MHz         dBµV/m         v/h         Limit         Margin         Pk/									ļ	
250.013         20.8         H         46.0         -25.2         Peak         299         1.7           Run #2:         Maximized Readings From Run #1         Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         OP         238         1.7           53.938         24.5         V         40.0         -15.5         OP         271         1.7           Run #3a: Maximized readings, 1000 - 18000 MHz           LUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         0         0           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         0.0           <										
Run #2: Maximized Readings From Run #1           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           Run #3a: Maximized readings, 1000 - 18000 MHz           EUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           6933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           10400.920         37.8									<u> </u>	
requency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           un #3a: Maximized readings, 1000 - 18000 MHz           UT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         0.0         0         0           requency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         V/h         Limit         Margin         Pk/QP/Avg         degrees         meters           933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           933.390         36.7         H         54.0         -16	250.013	20.8	H	46.0	-25.2	Реак	299	1.7		
Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           Run#3a: Maximized readings, 1000 - 18000 MHz           Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0	0up #2, M	avimized De	adinac Err	m Dun #1						
MHz         dB <sub>μ</sub> V/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           Run #3a: Maximized readings, 1000 - 18000 MHz           EUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dB <sub>µ</sub> V/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           6933.390         44.1         V         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090					Gon	Detector	Λzimuth	Hoight	Commonts	
153.215         28.9         H         43.5         -14.6         QP         238         1.7           53.938         24.5         V         40.0         -15.5         QP         271         1.7           Run #3a: Maximized readings, 1000 - 18000 MHz           EUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0   Frequency Level Pol RSS Gen Detector Azimuth Height Comments MHz dBµV/m v/h Limit Margin Pk/QP/Avg degrees meters 6933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           10401.090         37.8         H         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -17.3         AVG         100         1.0         RB 1 MHz; VB: 10 Hz           3465.660         29.8         H         54.0         -24.2         AVG         314         1.8	. ,								Comments	
53.938         24.5         V         40.0         -15.5         QP         271         1.7           Run #3a: Maximized readings, 1000 - 18000 MHz           EUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency Level Pol RSS Gen Detector Azimuth Height Comments           MHz         dBµV/m         v/h         Limit         Margin Pk/QP/Avg         degrees meters         6933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           10400.920         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -17.3         AVG         100         1.0         RB 1 MHz; VB: 10 Hz           465560         29.8         H         54.0         -24.2         AVG         360										
Run #3a: Maximized readings, 1000 - 18000 MHz           EUT set to Receive mode at 5200 MHz, Lagacy Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           6933.390         44.1         V         54.0         -9.9         AVG         336         1.3         RB 1 MHz; VB: 10 Hz           10400.920         37.8         H         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3466.560         29.8         H         54.0         -17.3         AVG         100         1.0         RB 1 MHz; VB: 10 Hz           3465.680         29.7         V         54.0         -24.2         AVG         360         1.7         RB 1 MHz; VB: 10 Hz										
Indext         Index <thindex< th=""> <thindex< th=""></thindex<></thindex<>	153.215 53.938 Run #3a: 1	28.9 24.5 Aaximized re	H V adings, 10	43.5 40.0 000 - 18000	-14.6 -15.5 MHz	QP	238	1.7		
Frequency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         6933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           10400.920         37.8         H         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           6933.390         36.7         H         54.0         -17.3         AVG         100         1.0         RB 1 MHz; VB: 10 Hz           3466.560         29.8         H         54.0         -24.2         AVG         314         1.8         RB 1 MHz; VB: 10 Hz           3465.680         29.7         V         54.0         -24.3         AVG         360         1.7         RB 1 MHz; VB: 1 MHz           6933.440         49.7         V         74.0         -24.3         PK         356         1.3         RB 1 MHz; VB: 1 MHz           104	153.215 53.938 Run #3a: 1	28.9 24.5 Aaximized re Receive mod	H V eadings, 10 de at 5200	43.5 40.0 000 - 18000 I MHz, Lagad	-14.6 -15.5 MHz cy Mode	QP QP	238 271	1.7 1.7	Extrapola	ion Factor
MHzdBµV/mv/hLimitMarginPk/QP/Avgdegreesmeters6933.39044.1V54.0-9.9AVG3561.3RB 1 MHz; VB: 10 Hz10400.92037.8H54.0-16.2AVG3161.0RB 1 MHz; VB: 10 Hz10401.09037.8V54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz10401.09037.8V54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz6933.39036.7H54.0-17.3AVG1001.0RB 1 MHz; VB: 10 Hz3466.56029.8H54.0-24.2AVG3141.8RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz6933.44049.7V74.0-24.3PK3561.3RB 1 MHz; VB: 1 MHz10400.64049.1H74.0-24.9PK3161.0RB 1 MHz; VB: 1 MHz10398.70048.6V74.0-25.4PK01.0RB 1 MHz; VB: 1 MHz6933.37046.9H74.0-27.1PK1001.0RB 1 MHz; VB: 1 MHz3466.08040.9H74.0-33.1PK3141.8RB 1 MHz; VB: 1 MHz	153.215 53.938 Run #3a: 1	28.9 24.5 Maximized re Receive mod	H V eadings, 10 de at 5200 quency Ra	43.5 40.0 000 - 18000 I MHz, Lagac	-14.6 -15.5 MHz cy Mode Test D	QP QP Distance	238 271 Limit D	1.7 1.7 istance		
6933.390         44.1         V         54.0         -9.9         AVG         356         1.3         RB 1 MHz; VB: 10 Hz           10400.920         37.8         H         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -16.2         AVG         316         1.0         RB 1 MHz; VB: 10 Hz           10401.090         37.8         V         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           6933.390         36.7         H         54.0         -17.3         AVG         100         1.0         RB 1 MHz; VB: 10 Hz           3466.560         29.8         H         54.0         -24.2         AVG         314         1.8         RB 1 MHz; VB: 10 Hz           3465.680         29.7         V         54.0         -24.3         AVG         360         1.7         RB 1 MHz; VB: 10 Hz           6933.440         49.7         V         74.0         -24.3         PK         356         1.3         RB 1 MHz; VB: 1 MHz           10400.640         49.1         H         74.0         -24.9         PK         316         1.0         R	153.215 53.938 cun #3a: 1	28.9 24.5 Maximized re Receive mod	H V eadings, 10 de at 5200 quency Ra	43.5 40.0 000 - 18000 I MHz, Lagac	-14.6 -15.5 MHz cy Mode Test D	QP QP Distance	238 271 Limit D	1.7 1.7 istance		
0400.92037.8H54.0-16.2AVG3161.0RB 1 MHz; VB: 10 Hz0401.09037.8V54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz6933.39036.7H54.0-17.3AVG1001.0RB 1 MHz; VB: 10 Hz3466.56029.8H54.0-24.2AVG3141.8RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz6933.44049.7V74.0-24.3PK3561.3RB 1 MHz; VB: 1 MHz0400.64049.1H74.0-24.9PK3161.0RB 1 MHz; VB: 1 MHz0398.70048.6V74.0-25.4PK01.0RB 1 MHz; VB: 1 MHz6933.37046.9H74.0-27.1PK1001.0RB 1 MHz; VB: 1 MHz3466.08040.9H74.0-33.1PK3141.8RB 1 MHz; VB: 1 MHz	153.215 53.938 un #3a: 1 UT set to	28.9 24.5 Aaximized re Receive mod Fre 100	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N	43.5 40.0 000 - 18000 I MHz, Lagad nge MHz	-14.6 -15.5 MHz cy Mode Test D	QP QP Distance 3	238 271 Limit D	1.7 1.7 istance	0	
10401.09037.8V54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz6933.39036.7H54.0-17.3AVG1001.0RB 1 MHz; VB: 10 Hz3466.56029.8H54.0-24.2AVG3141.8RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz6933.44049.7V74.0-24.3PK3561.3RB 1 MHz; VB: 1 MHz10400.64049.1H74.0-24.9PK3161.0RB 1 MHz; VB: 1 MHz10398.70048.6V74.0-25.4PK01.0RB 1 MHz; VB: 1 MHz6933.37046.9H74.0-27.1PK1001.0RB 1 MHz; VB: 1 MHz3466.08040.9H74.0-33.1PK3141.8RB 1 MHz; VB: 1 MHz	153.215 53.938 2un #3a: 1 2UT set to Frequency MHz	28.9 24.5 Aaximized re Receive mod Fre 100 Level dBµV/m	H V eadings, 10 de at 5200 quency Ra 0 - 18000 M Pol V/h	43.5 40.0 000 - 18000 I MHz, Lagac nge MHz RSS Limit	-14.6 -15.5 MHz cy Mode Test D Gen Margin	QP QP Distance 3 Detector Pk/QP/Avg	238 271 Limit D	1.7 1.7 istance 3 Height meters	0 Comments	.0
6933.39036.7H54.0-17.3AVG1001.0RB 1 MHz; VB: 10 Hz3466.56029.8H54.0-24.2AVG3141.8RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz6933.44049.7V74.0-24.3PK3561.3RB 1 MHz; VB: 1 MHz0400.64049.1H74.0-24.9PK3161.0RB 1 MHz; VB: 1 MHz0398.70048.6V74.0-25.4PK01.0RB 1 MHz; VB: 1 MHz6933.37046.9H74.0-27.1PK1001.0RB 1 MHz; VB: 1 MHz3466.08040.9H74.0-33.1PK3141.8RB 1 MHz; VB: 1 MHz	153.215 53.938 un #3a: I UT set to requency MHz 5933.390	28.9 24.5 Maximized re Receive mod Fre- 100 Level dBµV/m 44.1	H V eadings, 10 de at 5200 quency Ra 0 - 18000 M Pol V/h V	43.5 40.0 000 - 18000 I MHz, Lagac nge MHz RSS Limit 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9	QP QP Distance 3 Detector Pk/QP/Avg AVG	238 271 Limit D Azimuth degrees 356	1.7 1.7 istance 3 Height meters 1.3	Comments RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz
3466.56029.8H54.0-24.2AVG3141.8RB 1 MHz; VB: 10 Hz3465.68029.7V54.0-24.3AVG3601.7RB 1 MHz; VB: 10 Hz6933.44049.7V74.0-24.3PK3561.3RB 1 MHz; VB: 1 MHz10400.64049.1H74.0-24.9PK3161.0RB 1 MHz; VB: 1 MHz10398.70048.6V74.0-25.4PK01.0RB 1 MHz; VB: 1 MHz6933.37046.9H74.0-27.1PK1001.0RB 1 MHz; VB: 1 MHz3466.08040.9H74.0-33.1PK3141.8RB 1 MHz; VB: 1 MHz	153.215 53.938 2un #3a: 1 UT set to Frequency MHz 6933.390 10400.920	28.9 24.5 Aaximized re Receive mod Fre 100 Level dBµV/m 44.1 37.8	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N Pol V/h V H	43.5 40.0 000 - 18000 I MHz, Lagac MHz MHz Limit 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2	QP QP Distance 3 Detector Pk/QP/Avg AVG AVG	238 271 Limit D Azimuth degrees 356 316	1.7 1.7 istance 3 Height meters 1.3 1.0	Comments RB 1 MHz; <sup>v</sup> RB 1 MHz; <sup>v</sup>	.0 VB: 10 Hz VB: 10 Hz
3465.680         29.7         V         54.0         -24.3         AVG         360         1.7         RB 1 MHz; VB: 10 Hz           6933.440         49.7         V         74.0         -24.3         PK         356         1.3         RB 1 MHz; VB: 10 Hz           0400.640         49.1         H         74.0         -24.9         PK         316         1.0         RB 1 MHz; VB: 1 MHz           0398.700         48.6         V         74.0         -25.4         PK         0         1.0         RB 1 MHz; VB: 1 MHz           6933.370         46.9         H         74.0         -27.1         PK         100         1.0         RB 1 MHz; VB: 1 MHz           3466.080         40.9         H         74.0         -33.1         PK         314         1.8         RB 1 MHz; VB: 1 MHz	153.215 53.938 un #3a: I UT set to Trequency MHz 6933.390 0400.920 0401.090	28.9 24.5 Aaximized re Receive mod Fre 100 Level dBµV/m 44.1 37.8 37.8	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N Pol V/h V H V	43.5 40.0 000 - 18000 I MHz, Lagad MHz Limit 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2	QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG	238 271 Limit D Azimuth degrees 356 316 0	1.7 1.7 istance 3 Height meters 1.3 1.0 1.0	Comments RB 1 MHz; Y RB 1 MHz; Y RB 1 MHz; Y	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz
6933.440         49.7         V         74.0         -24.3         PK         356         1.3         RB 1 MHz; VB: 1 MHz           10400.640         49.1         H         74.0         -24.9         PK         316         1.0         RB 1 MHz; VB: 1 MHz           10398.700         48.6         V         74.0         -25.4         PK         0         1.0         RB 1 MHz; VB: 1 MHz           6933.370         46.9         H         74.0         -27.1         PK         100         1.0         RB 1 MHz; VB: 1 MHz           3466.080         40.9         H         74.0         -33.1         PK         314         1.8         RB 1 MHz; VB: 1 MHz	153.215 53.938 200 #3a: 1 20T set to Erequency MHz 6933.390 10400.920 10401.090 6933.390	28.9 24.5 <b>/aximized re</b> Receive mod Fre 100 Level dBµV/m 44.1 37.8 37.8 36.7	H V adings, 10 de at 5200 0 - 18000 M Pol V/h V H V H	43.5 40.0 000 - 18000 I MHz, Lagac MHz KSS Limit 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -17.3	QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG	238 271 Limit D Azimuth degrees 356 316 0 100	1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.0	Comments RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz
I0400.640         49.1         H         74.0         -24.9         PK         316         1.0         RB 1 MHz; VB: 1 MHz           I0398.700         48.6         V         74.0         -25.4         PK         0         1.0         RB 1 MHz; VB: 1 MHz           6933.370         46.9         H         74.0         -27.1         PK         100         1.0         RB 1 MHz; VB: 1 MHz           3466.080         40.9         H         74.0         -33.1         PK         314         1.8         RB 1 MHz; VB: 1 MHz	153.215 53.938 2un #3a: I UT set to Frequency MHz 6933.390 10400.920 10401.090 6933.390 3466.560	28.9 24.5 <b>Λaximized re</b> Receive mod Eree 100 Level dBμV/m 44.1 37.8 37.8 37.8 36.7 29.8	H V eadings, 10 de at 5200 quency Ra 0 - 18000 M Pol V/h V H V H H H	43.5 40.0 000 - 18000 I MHz, Lagac MHz KSS Limit 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -16.2 -17.3 -24.2	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG	238 271 Limit D Azimuth degrees 356 316 0 100 314	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.8	Comments RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz; RB 1 MHz;	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz
0398.700         48.6         V         74.0         -25.4         PK         0         1.0         RB 1 MHz; VB: 1 MHz           6933.370         46.9         H         74.0         -27.1         PK         100         1.0         RB 1 MHz; VB: 1 MHz           3466.080         40.9         H         74.0         -33.1         PK         314         1.8         RB 1 MHz; VB: 1 MHz	153.215 53.938 2000 #338 Pun #	28.9 24.5 Aaximized re Receive mod Ere 100 Level dBµV/m 44.1 37.8 37.8 37.8 36.7 29.8 29.7	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N Pol V/h V H V H H V H	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -16.2 -17.3 -24.2 -24.3	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG	238 271 Limit D Azimuth degrees 356 316 0 100 314 360	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.0 1.8 1.7	Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz
6933.370         46.9         H         74.0         -27.1         PK         100         1.0         RB 1 MHz; VB: 1 MHz           3466.080         40.9         H         74.0         -33.1         PK         314         1.8         RB 1 MHz; VB: 1 MHz	153.215 53.938 un #3a: I UT set to UT set to Trequency MHz 5933.390 0400.920 0401.090 0401.090 0401.090 0401.090 3466.560 3465.680 5933.440	28.9 24.5 <b>Λaximized re</b> <b>Receive mod</b> <b>Fre</b> 100 <b>Level</b> <b>dBμV/m</b> 44.1 37.8 37.8 37.8 36.7 29.8 29.7 49.7	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N Pol V/h V H V H V H V H V V H V V V V V V	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D 	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG PK	238 271 Limit D Azimuth degrees 356 316 0 100 314 360 356	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.7 1.3	Comments RB 1 MHz; RB 1 MHz;	.0 VB: 10 Hz VB: 1 MHz
3466.080 40.9 H 74.0 -33.1 PK 314 1.8 RB 1 MHz; VB: 1 MHz	153.215 53.938 2000 #338 2000 #358 2000 #358 2	28.9 24.5 Aaximized re Receive mod Ere 100 Level dBµV/m 44.1 37.8 37.8 37.8 37.8 36.7 29.8 29.7 49.7 49.1	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N V/h V N H V H H V H V H H V H H V H	43.5 40.0 000 - 18000 I MHz, Lagad MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D 	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	238 271 Limit D Azimuth degrees 356 316 0 100 314 360 356 316	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.3 1.0 1.0 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 1 MHz VB: 1 MHz
	153.215 53.938 un #3a: I UT set to UT set to UT set to 0400.920 0401.090 6933.390 0400.920 0401.090 6933.390 3466.560 3465.680 6933.440 0400.640 0398.700	28.9 24.5 Aaximized re Receive mod Ereceive mod 100 Level dBµV/m 44.1 37.8 37.8 37.8 36.7 29.8 29.7 49.7 49.7 49.1 48.6	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N V/h V V H V H H V V H V V H V V V V V V V	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -16.2 -16.2 -16.2 -17.3 -24.2 -24.3 -24.3 -24.3 -24.9 -25.4	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG PK PK PK PK	238 271 Limit D 356 316 0 100 314 360 356 316 0	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Comments RB 1 MHz; Y RB 1 MHz; Y	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz
	153.215 53.938 2 un #3a: I UT set to UT set to UT set to 0400.920 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0403.390 0405.6800	28.9 24.5 Aaximized re Receive mod Ere 100 Level dBµV/m 44.1 37.8 36.7 29.8 36.7 29.8 29.7 49.7 49.1 48.6 46.9	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N V/h V H V H V H V H V V H V H V V H H V V H H	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -24.3 -24.3 -24.3 -24.3 -24.9 -25.4 -27.1	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG PK PK PK PK PK	238 271 Limit D Azimuth degrees 356 316 0 100 314 360 356 316 0 100 314	1.7 1.7 1.7 1.7 1.7 Height meters 1.3 1.0 1.0 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Comments RB 1 MHz; ' RB 1 MHz; '	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz
3467.050 40.8 V 74.0 -33.2 PK 360 1.7 RB 1 MHz; VB: 1 MHz	153.215 53.938 2 un #3a: I UT set to UT set to UT set to 6933.390 10400.920 10401.090 6933.390 3466.560 3465.680 6933.440 10400.640 10398.700 6933.370 3466.080	28.9 24.5 Aaximized re Receive mod Ere 100 Level dBµV/m 44.1 37.8 37.8 37.8 36.7 29.8 29.7 49.7 49.7 49.1 48.6 46.9 40.9	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N Pol V/h V H V H V H V V H V V H H V V H H V V H H H	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D 	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG PK PK PK PK PK PK	238 271 Limit D Azimuth degrees 356 316 0 100 314 360 356 316 0 100 314	1.7 1.7 1.7 istance 3 Height meters 1.3 1.0 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.3 1.0 1.0 1.8 1.3 1.0 1.3 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.8 1.3 1.0 1.0 1.8 1.3 1.0 1.0 1.8 1.0 1.0 1.8 1.0 1.0 1.0 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0           Comments           RB 1 MHz; '           RB 1 MHz; '	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz
	153.215 53.938 2 un #3a: I UT set to UT set to UT set to 0400.920 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0401.090 0403.390 0405.6800	28.9 24.5 Aaximized re Receive mod Ere 100 Level dBµV/m 44.1 37.8 36.7 29.8 36.7 29.8 29.7 49.7 49.1 48.6 46.9	H V eadings, 10 de at 5200 quency Ra 0 - 18000 N V/h V H V H V H V H V V H V H V V H H V V H H	43.5 40.0 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-14.6 -15.5 MHz cy Mode Test D Gen Margin -9.9 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -16.2 -24.3 -24.3 -24.3 -24.3 -24.9 -25.4 -27.1	QP QP OP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG PK PK PK PK PK	238 271 Limit D Azimuth degrees 356 316 0 100 314 360 356 316 0 100 314	1.7 1.7 1.7 1.7 1.7 Height meters 1.3 1.0 1.0 1.0 1.0 1.8 1.7 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0           Comments           RB 1 MHz; '           RB 1 MHz; '	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 0 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz

andard:         FCC Part 15.247/RSS-210         Class:         B           #3b:         Maximized readings, 1000 - 18000 MHz         -	Model:         Dalmatian         Account Manager:         Dean Erik           Contact:         Craig Owens         Class:         B           Standard:         FCC Part 15.247/RSS-210         Class:         B           un #3b:         Maximized readings, 1000 - 18000 MHz         Class:         B           JT set to Receive mode at 5200 MHz, HT-40 Mode         Extrapolation Factor         1000 - 18000 MHz         3         0.0           requency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           requency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           requency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           933.410         46.0         V         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           9401.180         37.8 </th
Account Manager:         Dean Erikse           Contact:         Craig Owens         Class:         B           andard:         FCC Part 15.247/RSS-210         Class:         B           #3b:         Maximized readings, 1000 - 18000 MHz         Class:         B           *set to Receive mode at 5200 MHz, HT-40 Mode         Extrapolation Factor         1000 - 18000 MHz         3         0.0           quency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           quency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/OP/Avg         degrees         meters           33.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           33.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           00.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           33.400         51.1         V	Account Manager:         Dean Erik           Contact:         Craig Owens         Class:         B           Standard:         FCC Part 15.247/RSS-210         Class:         B           n #3b:         Maximized readings, 1000 - 18000 MHz         T         T         Standard:         Fcc Part 15.247/RSS-210         Class:         B           n #3b:         Maximized readings, 1000 - 18000 MHz         T         T         Standard:         Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         0.0           equency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dB <sub>µ</sub> V/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           933.410         46.0         V         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           933.350         37.9         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           400.440         37.7         V         54.0         -16.3         AVG         0
andard:         FCC Part 15.247/RSS-210         Class:         B           #3b:         Maximized readings, 1000 - 18000 MHz         -	Bitandard:         FCC Part 15.247/RSS-210         Class:         B           n #3b:         Maximized readings, 1000 - 18000 MHz         T         T         T set to Receive mode at 5200 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           equency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµLV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           V33.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           V33.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           V01.180         37.8         H         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           V33.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           V33.480         51.1         V         54.0         -23
#3b: Maximized readings, 1000 - 18000 MHz         Frequency Range       Test Distance       Limit Distance       Extrapolation Factor         1000 - 18000 MHz       3       0.0         quency Range       Test Distance       Limit Distance       Extrapolation Factor         1000 - 18000 MHz       3       0.0         quency Level Pol RSS Gen Detector Azimuth Height Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         33.410       46.0       V       54.0       -8.0       AVG       354       1.3       RB 1 MHz; VB: 10 Hz         33.350       37.9       H       54.0       -16.1       AVG       93       1.6       RB 1 MHz; VB: 10 Hz         01.180       37.8       H       54.0       -16.2       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         00.440       37.7       V       54.0       -16.3       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         33.480       51.1       V       74.0       -22.9       PK       354       1.3       RB 1 MHz	#3b:       Maximized readings, 1000 - 18000 MHz         set to Receive mode at 5200 MHz, HT-40 Mode         Frequency Range       Test Distance       Limit Distance       Extrapolation Factor         1000 - 18000 MHz       3       3       0.0         quency       Level       Pol       RSS Gen       Detector       Azimuth       Height       Comments         MHz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters         33.410       46.0       V       54.0       -8.0       AVG       354       1.3       RB 1 MHz; VB: 10 Hz         33.350       37.9       H       54.0       -16.1       AVG       93       1.6       RB 1 MHz; VB: 10 Hz         00.440       37.7       V       54.0       -16.2       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         33.480       51.1       V       74.0       -22.9       PK       354       1.3       RB 1 MHz; VB: 10 Hz         66.730       30.2       V       54.0       -23.8       AVG       112       1.6       RB 1 MHz; VB: 10 Hz         68.040       29.6       H       54.0       -24.4       AVG       221       1.0
set to Receive mode at 5200 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         PK/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           01.180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           0.0430         49.2         H         74.0         -24.4	set to Receive mode at 5200 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG
Frequency RangeTest DistanceLimit DistanceExtrapolation Factor1000 - 18000 MHz330.0uencyLevelPolRSS GenDetectorAzimuthHeightCommentsHzdBµV/mv/hLimitMarginPk/QP/Avgdegreesmeters3.41046.0V54.0-8.0AVG3541.3RB 1 MHz; VB: 10 Hz3.35037.9H54.0-16.1AVG931.6RB 1 MHz; VB: 10 Hz1.18037.8H54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz0.44037.7V54.0-16.3AVG01.0RB 1 MHz; VB: 10 Hz3.48051.1V74.0-22.9PK3541.3RB 1 MHz; VB: 10 Hz3.04029.6H54.0-24.4AVG2211.0RB 1 MHz; VB: 10 Hz0.38049.2H74.0-25.0PK01.0RB 1 MHz; VB: 1 MHz3.63047.4H74.0-26.6PK931.6RB 1 MHz; VB: 1 MHz5.84041.0H74.0-33.0PK2211.0RB 1 MHz; VB: 1 MHz	Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           1.180         37.8         H         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           5.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz
1000 - 18000 MHz         3         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           1Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           11.180         37.8         H         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           00.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG	1000 - 18000 MHz         3         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           IHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           0.430         49.0         V         74.0         -24.4         AVG
1000 - 18000 MHz         3         3         0.0           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.1.80         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           0.0.380         49.2         H         74.0         -24.4	1000 - 18000 MHz         3         3         0.0           μency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           01.180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           00.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           8.040         29.6         H         54.0         -24.4         AVG         <
HzdBµV/mv/hLimitMarginPk/QP/Avgdegreesmeters3.41046.0V54.0-8.0AVG3541.3RB 1 MHz; VB: 10 Hz3.35037.9H54.0-16.1AVG931.6RB 1 MHz; VB: 10 Hz1.18037.8H54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz0.44037.7V54.0-16.3AVG01.0RB 1 MHz; VB: 10 Hz0.44037.7V54.0-16.3AVG01.0RB 1 MHz; VB: 10 Hz3.48051.1V74.0-22.9PK3541.3RB 1 MHz; VB: 1 MHz6.73030.2V54.0-23.8AVG1121.6RB 1 MHz; VB: 1 0 Hz3.04029.6H54.0-24.4AVG2211.0RB 1 MHz; VB: 10 Hz0.43049.2H74.0-24.8PK01.0RB 1 MHz; VB: 1 MHz0.43049.0V74.0-25.0PK01.0RB 1 MHz; VB: 1 MHz3.63047.4H74.0-26.6PK931.6RB 1 MHz; VB: 1 MHz5.84041.0H74.0-33.0PK2211.0RB 1 MHz; VB: 1 MHz5.84041.0H74.0-33.0PK2211.0RB 1 MHz; VB: 1 MHz	Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           3.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           3.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           1.180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           3.480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           6.730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           3.040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           0.380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           0.
Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           8.410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           8.350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           1.180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           0.430         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           0.430         49.2         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 1 MHz           0.	HzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters8.41046.0V54.0-8.0AVG3541.3RB 1 MHz; VB: 10 Hz8.35037.9H54.0-16.1AVG931.6RB 1 MHz; VB: 10 Hz1.18037.8H54.0-16.2AVG01.0RB 1 MHz; VB: 10 Hz0.44037.7V54.0-16.3AVG01.0RB 1 MHz; VB: 10 Hz0.48051.1V74.0-22.9PK3541.3RB 1 MHz; VB: 10 Hz0.73030.2V54.0-23.8AVG1121.6RB 1 MHz; VB: 10 Hz0.38049.2H74.0-24.4AVG2211.0RB 1 MHz; VB: 10 Hz0.43049.0V74.0-25.0PK01.0RB 1 MHz; VB: 1 MHz
410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           .480         51.1         V         74.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           .380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           <	410         46.0         V         54.0         -8.0         AVG         354         1.3         RB 1 MHz; VB: 10 Hz           350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           .380         49.2         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz      .430
350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           730         30.2         V         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           730         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 10 Hz           380         49.2         H         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz           530	350         37.9         H         54.0         -16.1         AVG         93         1.6         RB 1 MHz; VB: 10 Hz           180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 10 Hz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           730         30.2         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           730         30.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 10 Hz           380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           4
.180       37.8       H       54.0       -16.2       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         0.440       37.7       V       54.0       -16.3       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         .480       51.1       V       74.0       -22.9       PK       354       1.3       RB 1 MHz; VB: 10 Hz         .730       30.2       V       54.0       -23.8       AVG       112       1.6       RB 1 MHz; VB: 10 Hz         .040       29.6       H       54.0       -24.4       AVG       221       1.0       RB 1 MHz; VB: 10 Hz         .040       29.6       H       74.0       -24.4       AVG       221       1.0       RB 1 MHz; VB: 10 Hz         .0380       49.2       H       74.0       -24.8       PK       0       1.0       RB 1 MHz; VB: 1 MHz         .0430       49.0       V       74.0       -25.0       PK       0       1.0       RB 1 MHz; VB: 1 MHz         .630       47.4       H       74.0       -26.6       PK       93       1.6       RB 1 MHz; VB: 1 MHz         .140       41.1       V       74.0       -32.9       PK       112       1.6	.180         37.8         H         54.0         -16.2         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           0.440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           .480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           .730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           .040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           .0380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           .0430         49.0         V         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz
440       37.7       V       54.0       -16.3       AVG       0       1.0       RB 1 MHz; VB: 10 Hz         480       51.1       V       74.0       -22.9       PK       354       1.3       RB 1 MHz; VB: 1 MHz         730       30.2       V       54.0       -23.8       AVG       112       1.6       RB 1 MHz; VB: 10 Hz         040       29.6       H       54.0       -24.4       AVG       221       1.0       RB 1 MHz; VB: 10 Hz         380       49.2       H       74.0       -24.8       PK       0       1.0       RB 1 MHz; VB: 1 MHz         430       49.0       V       74.0       -25.0       PK       0       1.0       RB 1 MHz; VB: 1 MHz         430       49.0       V       74.0       -26.6       PK       93       1.6       RB 1 MHz; VB: 1 MHz         430       47.4       H       74.0       -26.6       PK       93       1.6       RB 1 MHz; VB: 1 MHz         140       41.1       V       74.0       -32.9       PK       112       1.6       RB 1 MHz; VB: 1 MHz         340       41.0       H       74.0       -33.0       PK       221       1.0       RB 1	440         37.7         V         54.0         -16.3         AVG         0         1.0         RB 1 MHz; VB: 10 Hz           480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           740         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           780         29.6         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 10 Hz           780         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           780         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz
480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz           430         49.0         V         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           630         47.4         H         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	480         51.1         V         74.0         -22.9         PK         354         1.3         RB 1 MHz; VB: 1 MHz           730         30.2         V         54.0         -23.8         AVG         112         1.6         RB 1 MHz; VB: 10 Hz           040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz
.040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           0.380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           0.430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz           630         47.4         H         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           .140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           .840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	.040         29.6         H         54.0         -24.4         AVG         221         1.0         RB 1 MHz; VB: 10 Hz           0.380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           0.430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz
D.380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           0.430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz           .630         47.4         H         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           .140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           .840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	D.380         49.2         H         74.0         -24.8         PK         0         1.0         RB 1 MHz; VB: 1 MHz           D.430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz
0.430         49.0         V         74.0         -25.0         PK         0         1.0         RB 1 MHz; VB: 1 MHz           .630         47.4         H         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           .140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           .840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	D.430 49.0 V 74.0 -25.0 PK 0 1.0 RB 1 MHz; VB: 1 MHz
630         47.4         H         74.0         -26.6         PK         93         1.6         RB 1 MHz; VB: 1 MHz           140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	
140         41.1         V         74.0         -32.9         PK         112         1.6         RB 1 MHz; VB: 1 MHz           840         41.0         H         74.0         -33.0         PK         221         1.0         RB 1 MHz; VB: 1 MHz	
840 41.0 H 74.0 -33.0 PK 221 1.0 RB 1 MHz; VB: 1 MHz	
any emission above 1 GHz, can not exceed the average limit by more than 20 dB.	Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the p any emission above 1 GHz, can not exceed the average limit by more than 20 dB.



Client:	Ruckus Wire	eless						Job Number:	J73710
Model:	Dalmatian							Log Number:	
							Ассо	unt Manager:	Dean Erikser
	Craig Owen:		210					Class	<u> </u>
	FCC Part 15							Class:	В
	eliminary Ra				Datastas	A _'	11.2.61	0	
requency	Level	Pol		Gen	Detector	Azimuth	Height	Comments	
MHz	dBµV/m	v/h V	Limit	Margin	Pk/QP/Avg	degrees	meters		
53.771	27.6	-	40.0	-12.4	Peak	0	1.7		
153.251	29.8	H H	43.5	-13.7	Peak	239 299	1.7 1.7		
<u>251.016</u> 45.779	21.3 25.5	H V	46.0 40.0	-24.7 -14.5	Peak Peak	299 301	1.7		
45.779 500.006	25.5	V H	40.0	-14.5 -22.9	Peak	301	1.7		
600.006	23.1	н V	46.0	-22.9 -24.9	Peak	269	1.7		
873.468	23.2	H	46.0	-24.9	Peak	61	1.7		
319.041	21.8	V	46.0	-22.0	Peak	298	1.7		
517.011	2110		10.0	2112	1 out	270	,		
	wimized De	adings Fro	om Run #4						
un #5: Ma	ixiiiiizeu Red			~	Datastas	۸_!		Commonto	
	Level	Pol	RSS	Gen	Detector	Azimuth	Height	Comments	
requency	Level						Height meters	Comments	
equency MHz	Level dBµV/m	Pol v/h V	Limit	Margin	Pk/QP/Avg	degrees 0	meters	Comments	
requency MHz 53.771 153.251 un #6a: M	Level dBµV/m 26.9 28.9 laximized re	v/h V H adings, 1(	Limit 40.0 43.5 000 - 18000 I	Margin -13.1 -14.6 MHz		degrees			
53.771 153.251 un #6a: M	Level dBµV/m 26.9 28.9 laximized re Receive mod	v/h V H adings, 10 de at 5300	Limit 40.0 43.5 000 - 18000 I MHz, Lagac	Margin -13.1 -14.6 MHz cy Mode	Pk/QP/Avg QP QP	degrees 0 239	meters 1.7 1.7		
requency MHz 53.771 153.251 un #6a: M	Level dBµV/m 26.9 28.9 laximized re Receive mod	v/h V H adings, 10 de at 5300 quency Ra	Limit 40.0 43.5 000 - 18000 I MHz, Lagao	Margin -13.1 -14.6 WHz cy Mode Test D	Pk/QP/Avg QP QP	degrees 0 239 Limit D	meters 1.7 1.7 istance	Extrapolati	
equency MHz 53.771 53.251	Level dBµV/m 26.9 28.9 laximized re Receive mod	v/h V H adings, 10 de at 5300	Limit 40.0 43.5 000 - 18000 I MHz, Lagao	Margin -13.1 -14.6 WHz cy Mode Test D	Pk/QP/Avg QP QP	degrees 0 239 Limit D	meters 1.7 1.7		
equency MHz 53.771 153.251 In #6a: M JT set to	Level dBµV/m 26.9 28.9 Iaximized re Receive mod Fre 100	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 l	Limit 40.0 43.5 000 - 18000 I MHz, Lagac nge MHz	Margin -13.1 -14.6 WHz cy Mode Test D	Pk/QP/Avg QP QP Distance 3	degrees 0 239 Limit D	meters 1.7 1.7 istance 3	Extrapolati	
requency MHz 53.771 153.251 un #6a: M JT set to Trequency	Level dBµV/m 26.9 28.9 Maximized re Receive mod Fre 100 Level	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 l	Limit 40.0 43.5 000 - 18000 I MHz, Lagad MHz MHz	Margin -13.1 -14.6 WHz cy Mode Test D	Pk/QP/Avg QP QP Distance 3 Detector	degrees 0 239 Limit D	meters 1.7 1.7 istance 3 Height	Extrapolati	
equency MHz 53.771 53.251 In #6a: M JT set to T set to MHz	Level dBµV/m 26.9 28.9 Iaximized re Receive mod Fre 100 Level dBµV/m	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol v/h	Limit 40.0 43.5 000 - 18000 I MHz, Lagac nge MHz RSS Limit	Margin -13.1 -14.6 MHz cy Mode Test D Gen Margin	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg	degrees 0 239 Limit D Azimuth degrees	meters 1.7 1.7 istance 3 Height meters	Extrapolati 0. Comments	0
requency MHz 53.771 153.251 Jn #6a: M JT set to JT set to requency MHz 066.740	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol v/h V	Limit 40.0 43.5 000 - 18000 I MHz, Lagac nge MHz RSS Limit 54.0	Margin -13.1 -14.6 WHz cy Mode Test D Gen Margin -3.1	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG	degrees 0 239 Limit D Azimuth degrees 274	meters 1.7 1.7 istance 3 Height meters 1.7	Extrapolati 0. Comments RB 1 MHz; V	0 /B: 10 Hz
requency MHz 53.771 153.251 Jn #6a: M JT set to JT set to MHz 066.740 066.740	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol V/h V H	Limit 40.0 43.5 000 - 18000 I MHz, Lagac nge MHz RSS Limit 54.0 54.0	Margin -13.1 -14.6 WHz cy Mode Test D Gen -3.1 -3.1 -14.9	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG	degrees 0 239 Limit D Azimuth degrees 274 269	meters 1.7 1.7 istance Height meters 1.7 2.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz
requency MHz 53.771 153.251 un #6a: M JT set to T set to MHz 7066.740 7066.740 0600.930	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre- 100 Level dBµV/m 50.9 39.1 38.3	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol V/h V H H H	Limit 40.0 43.5 000 - 18000 I MHz, Lagac NHz KIZ Limit 54.0 54.0 54.0	Margin -13.1 -14.6 WHz cy Mode Test D Gen Margin -3.1 -14.9 -15.7	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG	degrees 0 239 Limit D Azimuth degrees 274 269 300	meters 1.7 1.7 istance B Height meters 1.7 2.0 1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz
requency MHz 53.771 153.251 un #6a: M JT set to JT set to 066.740 066.740 066.740 0660.930 0601.110	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1 38.3 38.2	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol V/h V H H H V	Limit 40.0 43.5 000 - 18000 l MHz, Lagad MHz MHz RSS Limit 54.0 54.0 54.0 54.0	Margin -13.1 -14.6 WHz cy Mode Test D - - - - - - - - - - - - -	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG	degrees 0 239 Limit D Azimuth degrees 274 269 300 317	meters           1.7           1.7           istance           3           Height           meters           1.7           2.0           1.0           1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz
equency MHz 53.771 153.251 In #6a: M JT set to T set to Cequency MHz 066.740 066.740 060.930 0601.110 066.660	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol v/h V H H V V V	Limit 40.0 43.5 000 - 18000 l MHz, Lagac MHz MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 74.0	Margin -13.1 -14.6 MHz cy Mode Test D 	Pk/QP/Avg QP QP istance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG PK	degrees 0 239 Limit D 2 Azimuth degrees 274 269 300 317 274	meters           1.7           1.7           1.7           istance           3           Height           meters           1.7           2.0           1.0           1.7	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 1 MHz
equency MHz 53.771 53.251 In #6a: N IT set to T set to equency MHz 066.740 066.740 060.930 0601.110 066.660 534.630	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0 30.3	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol V/h V H H H V	Limit 40.0 43.5 000 - 18000 l MHz, Lagac MHz KSS Limit 54.0 54.0 54.0 54.0 54.0 74.0 54.0	Margin -13.1 -14.6 MHz cy Mode Test D 	Pk/QP/Avg QP QP istance 3 Detector Pk/QP/Avg AVG AVG AVG AVG PK AVG	degrees 0 239 Limit D 2 2 Xzimuth degrees 274 269 300 317 274 198	meters 1.7 1.7 1.7 istance 3 Height meters 1.7 2.0 1.0 1.0 1.7 1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 1 MHz /B: 10 Hz
equency MHz 53.771 53.251 in #6a: M IT set to Equency MHz 066.740 066.740 066.740 066.740 066.660 533.300	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre- 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0 30.3 30.3	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f Pol V/h V H H V V H H V H	Limit 40.0 43.5 000 - 18000 I MHz, Lagac MHz Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -13.1 -14.6 WHz cy Mode Test D 	Pk/QP/Avg QP QP Detector Pk/QP/Avg AVG AVG AVG AVG PK AVG AVG AVG AVG AVG	degrees 0 239 Limit D 2 2 Xzimuth degrees 274 269 300 317 274 198 322	meters           1.7           1.7           1.7           istance           3           Height           meters           1.7           2.0           1.0           1.7	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz
equency MHz 53.771 53.251 n #6a: M T set to T set to 266.740 266.740 266.740 266.740 266.740 266.740 266.600 534.630 533.300 2600.070	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0 30.3	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f V/h V Pol v/h V H H V V V H V V V V V V	Limit 40.0 43.5 000 - 18000 l MHz, Lagac MHz KSS Limit 54.0 54.0 54.0 54.0 54.0 74.0 54.0	Margin -13.1 -14.6 MHz cy Mode Test D 	Pk/QP/Avg QP QP istance 3 Detector Pk/QP/Avg AVG AVG AVG AVG PK AVG	degrees 0 239 Limit D 2 2 Xzimuth degrees 274 269 300 317 274 198	meters 1.7 1.7 1.7 istance Height meters 1.7 2.0 1.0 1.0 1.7 1.0 1.0 1.0 1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 1 MHz
equency MHz 53.771 53.251 m #6a: M JT set to equency MHz 066.740 066.740 066.740 066.740 066.740 066.660 534.630 533.300 0600.070 0599.660	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre- 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0 30.3 30.3 50.1	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f V Pol V/h V H H V V V H V V V H V V V V V	Limit 40.0 43.5 000 - 18000 l MHz, Lagac NHz KSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -13.1 -14.6 WHz y Mode Test D - Gen Margin -3.1 -14.9 -15.7 -15.8 -20.0 -23.7 -23.7 -23.9	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	degrees 0 239 Limit D 2 4 2 4 2 69 300 317 274 198 322 317	meters           1.7           1.7           1.7           istance           3           Height           meters           1.7           2.0           1.0           1.0           1.7           1.0           1.0           1.0           1.0           1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 1 MHz /B: 10 Hz /B: 10 Hz /B: 1 MHz /B: 1 MHz
requency MHz 53.771 153.251 un #6a: M UT set to	Level dBµV/m 26.9 28.9 laximized re Receive mod Fre 100 Level dBµV/m 50.9 39.1 38.3 38.2 54.0 30.3 30.3 50.1 49.3	v/h V H adings, 10 de at 5300 quency Ra 0 - 18000 f V/h V H H V V H V V H V V H V V H V V H	Limit 40.0 43.5 000 - 18000 l MHz, Lagac MHz MHz KSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 74.0 54.0 74.0 74.0 74.0	Margin -13.1 -14.6 WHz cy Mode Test D 	Pk/QP/Avg QP QP istance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG PK AVG PK PK PK	degrees 0 239 Limit D Azimuth degrees 274 269 300 317 274 198 322 317 300	meters           1.7           1.7           1.7           istance           3           Height           meters           1.7           2.0           1.0           1.0           1.7           1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0	Extrapolati 0. Comments RB 1 MHz; V RB 1 MHz; V	0 /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 10 Hz /B: 1 MHz /B: 10 Hz /B: 10 Hz /B: 1 MHz /B: 1 MHz /B: 1 MHz

Client: Ruckus \	Nireless					Job Number: J73710		
lodel: Dalmatia	n						Log Number:	
						Acco	unt Manager:	Dean Eriksen
ntact: Craig Ov								
ndard: FCC Par							Class:	В
6b: Maximized et to Receive i								
	Frequency Range Test Distance			Distance	Limit D	istance	Extranolat	tion Factor
	1000 - 18000		163( L	3		8		.0
	1000 10000			0		,	0	.0
ency Level	Pol	RSS	Gen	Detector	Azimuth	Height	Comments	
dBµV/r		Limit	Margin	Pk/QP/Avg	degrees	meters		
10 50.7	V	54.0	-3.3	AVG	269	1.9	RB 1 MHz;	
60 38.4	H	54.0	-15.6	AVG	245	1.0	RB 1 MHz;	
20 38.3	V	54.0	-15.7	AVG	280	1.0	RB 1 MHz;	
2038.29054.2	H	54.0 74.0	-15.8 -19.8	AVG PK	277 269	<u>1.6</u> 1.9	RB 1 MHz; RB 1 MHz;	
79054.291050.6	V	74.0	-19.8 -23.4	PK PK	269 280	1.9	RB 1 MHZ;	
70 30.3	V	54.0	-23.4	AVG	284	1.0	RB 1 MHz;	
)70 30.1	H	54.0	-23.9	AVG	248	1.0	RB 1 MHz;	
560 49.6	H	74.0	-24.4	PK	245	1.0	RB 1 MHz;	
40 48.3	H	74.0	-25.7	PK	277	1.6	RB 1 MHz;	
550 41.6	V	74.0	-32.4	PK	284	1.0	RB 1 MHz;	
100 41.4	Н	74.0	-32.6	PK	248	1.0	RB 1 MHz; Y	VB: 1 MHz
any emis	<u>sion above 1</u>	<u>GHz, can no</u>	<u>t exceed the</u>	<u>averaqe limit</u>	by more that	<u>n 20 dB.</u>		



Client	Ruckus Wire	eless					Job Number: J73710			
Madal	Dalmatian						T-Log Number: T73745			
woden	Daimalian						Account Manager: Dean Erikse			
	Craig Owens									
Standard:	FCC Part 15	.247/RSS-	210					Class:	В	
un #7: Pr	eliminary Ra	diated En						-		
requency	Level	Pol		Gen	Detector	Azimuth	Height	Comments		
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
53.847	27.0	V	40.0	-13.0	Peak	89	1.7			
154.395	29.1	H	43.5	-14.4	Peak	241	1.7			
871.674 480.001	22.4 22.0	V H	46.0 46.0	-23.6 -24.0	Peak Peak	360 31	<u>1.7</u> 1.7			
480.001 600.018	22.0	H V	46.0	-24.0	Peak	58	1.7			
319.032	21.7	V	46.0	-24.5	Peak	298	1.7			
250.008	21.3	H	46.0	-24.9	Peak	301	1.7			
equency MHz 3.847	Level dBµV/m 26.0 28.9	Pol V/h V H		Gen <u>Margin</u> -14.0 -14.6	Detector Pk/QP/Avg QP QP	Azimuth degrees 89 241	Height meters 1.7 1.7	Comments		
requency MHz 53.847 154.395 un #9a: N	Level dBµV/m 26.0	Pol v/h V H adings, 18	RSS Limit 40.0 43.5 8000 - 18000	Margin -14.0 -14.6 MHz	Pk/QP/Avg QP	degrees 89	meters 1.7	Comments		
requency MHz 53.847 154.395 un <b>#9a: N</b>	Level dBµV/m 26.0 28.9 Maximized re Receive mod	Pol v/h H adings, 18 de at 5600	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legad	Margin -14.0 -14.6 MHz cy Mode	Pk/QP/Avg QP QP	degrees 89 241	meters 1.7 1.7		tion Factor	
requency MHz 53.847 154.395 un #9a: N	Level dBµV/m 26.0 28.9 Maximized re Receive mod	Pol v/h V H adings, 18	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legao	Margin -14.0 -14.6 MHz cy Mode	Pk/QP/Avg QP	degrees 89 241 Limit D	meters 1.7 1.7	Extrapola	tion Factor	
53.847 154.395 un #9a: M	Level dBµV/m 26.0 28.9 Maximized re Receive mod	Pol v/h V H adings, 18 de at 5600 quency Ra	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legao MHz, Legao MHz	Margin -14.0 -14.6 MHz cy Mode	Pk/QP/Avg QP QP	degrees 89 241 Limit D	meters 1.7 1.7 istance	Extrapola		
equency MHz 53.847 54.395 54.395 n #9a: M IT set to	Level dBµV/m 26.0 28.9 Maximized re Receive mod Fred 1000	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legao MHz, Legao MHz	Margin -14.0 -14.6 MHz cy Mode Test D	Pk/QP/Avg QP QP Distance 3	degrees 89 241 Limit D	meters 1.7 1.7 istance	Extrapola 0		
requency MHz 53.847 154.395 JT 54.395 JT set to T set to requency MHz 466.720	Level dBµV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBµV/m 49.7	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legad MHz MHz RSS Limit 54.0	Margin -14.0 -14.6 MHz cy Mode Test D Gen Margin -4.3	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG	degrees 89 241 Limit D 2 Azimuth degrees 332	meters 1.7 1.7 istance 3 Height meters 1.8	Extrapola 0 Comments RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz	
equency MHz 53.847 54.395 54.395 In #9a: M IT set to equency MHz 466.720 466.730	Level dBµV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBµV/m 49.7 44.5	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legad MHz Limit 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test D Gen -4.3 -9.5	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234	meters 1.7 1.7 istance Height meters 1.8 1.5	Extrapola 0 Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 10 Hz	
requency MHz 53.847 154.395 un #9a: M JT set to requency MHz 466.720 466.730 1200.920	Level dBµV/m 26.0 28.9 Maximized re Receive mod Fred 1000 Level dBµV/m 49.7 44.5 38.6	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol V/h V H H H	RSS Limit 40.0 43.5 3000 - 18000 MHz, Legad MHz MHz RSS Limit 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test E Gen Margin -4.3 -9.5 -15.4	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234 224	meters 1.7 1.7 istance Height meters 1.8 1.5 1.0	Extrapola 0 Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz	
equency MHz 53.847 54.395 154.395 154.395 154.395 10 154.395 10 154.395 10 10 10 10 10 10 10 10 10 10 10 10 10	Level dBµV/m 26.0 28.9 Maximized re Receive mod 1000 Level dBµV/m 49.7 44.5 38.6 38.6	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol V/h V H H V V	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legad MHz RSS Limit 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test E Gen Margin -4.3 -9.5 -15.4 -15.4	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG	degrees 89 241 Limit D C Azimuth degrees 332 234 224 314	meters           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.0	Extrapola Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz	
equency MHz 53.847 54.395 54.395 In #9a: M IT set to equency MHz 466.720 466.730 200.920 201.100 733.390	Level dBμV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBμV/m 49.7 44.5 38.6 38.6 38.4	Pol v/h V H adings, 18 de at 5600 guency Ra 0 - 18000 N Pol v/h V H H V V V V V V	RSS Limit 40.0 43.5 3000 - 18000 MHz, Legad MHz MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test E Gen Margin -4.3 -9.5 -15.4 -15.4 -15.6	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D 32 Azimuth degrees 332 234 224 314 256	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5	Extrapola 0 Comments RB 1 MHz; ' RB 1 MHz; '	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz	
equency MHz 53.847 54.395 n #9a: N T set to equency MHz 466.720 466.730 200.920 201.100 733.390 733.370	Level dBµV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBµV/m 49.7 44.5 38.6 38.6 38.6 38.4 34.4	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H H V V H H V V H	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legad MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test E Gen Margin -4.3 -9.5 -15.4 -15.4 -15.6 -19.6	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234 224 314 256 69	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5           1.8	Extrapola 0 Comments RB 1 MHz; RB 1 MHz;	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz	
equency MHz 53.847 54.395 n #9a: N T set to equency MHz 466.720 466.720 200.920 201.100 733.370 466.660	Level dBµV/m 26.0 28.9 Maximized re Receive mod Fred 1000 Level dBµV/m 49.7 44.5 38.6 38.6 38.6 38.4 34.4 53.6	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H H V V H V V H V V V	RSS Limit 40.0 43.5 3000 - 18000 MHz, Legac MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test D Gen Margin -4.3 -9.5 -15.4 -15.4 -15.4 -15.6 -19.6 -20.4	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234 224 314 256 69 332	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5           1.8           1.5           1.0           1.5           1.8           1.5           1.8           1.8           1.8           1.8           1.8	Extrapola O Comments RB 1 MHz; <sup>V</sup> RB 1 MHz; <sup>V</sup>	.0 VB: 10 Hz VB: 10 Hz	
equency MHz 53.847 54.395 n #9a: N T set to equency MHz 466.720 200.920 201.100 733.370 466.660 200.950	Level dBµV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBµV/m 49.7 44.5 38.6 38.6 38.6 38.4 34.4 53.6 52.5	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H H V V H V H V H V H	RSS Limit 40.0 43.5 3000 - 18000 MHz, Legad MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz y Mode Test D Gen Margin -4.3 -9.5 -15.4 -15.4 -15.4 -15.6 -19.6 -20.4 -21.5	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234 224 314 256 69 332 224	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5           1.8           1.5           1.0           1.5           1.8           1.8           1.8           1.8           1.8           1.8           1.8	Extrapola Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 1 MHz VB: 1 MHz	
equency MHz 53.847 54.395 n #9a: M T set to equency MHz 466.720 466.730 200.920 201.100 733.370 466.660 200.950 466.950	Level dBµV/m 26.0 28.9 Maximized re Receive moo Free 1000 Level dBµV/m 49.7 44.5 38.6 38.6 38.6 38.6 38.4 34.4 53.6 52.5 50.1	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H H V V H V V H V V V	RSS Limit 40.0 43.5 8000 - 18000 MHz, Legac MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz cy Mode Test D -15.4 -15.4 -15.4 -15.4 -15.4 -15.6 -19.6 -20.4 -21.5 -23.9	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D Azimuth degrees 332 234 224 314 256 69 332 224 234	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5           1.8           1.5           1.0           1.5           1.8           1.0           1.5	Extrapola Comments RB 1 MHz; ' RB 1 MHz; '	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz	
requency MHz 53.847 154.395 un #9a: M JT set to	Level dBµV/m 26.0 28.9 Maximized re Receive mod Free 1000 Level dBµV/m 49.7 44.5 38.6 38.6 38.6 38.4 34.4 53.6 52.5	Pol v/h V H adings, 18 de at 5600 quency Ra 0 - 18000 N Pol v/h V H H V V H H V V H H V H	RSS Limit 40.0 43.5 3000 - 18000 MHz, Legad MHz RSS Limit 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	Margin -14.0 -14.6 MHz y Mode Test D Gen Margin -4.3 -9.5 -15.4 -15.4 -15.4 -15.6 -19.6 -20.4 -21.5	Pk/QP/Avg QP QP Distance 3 Detector Pk/QP/Avg AVG AVG AVG AVG AVG AVG AVG AVG AVG AVG	degrees 89 241 Limit D 2 Azimuth degrees 332 234 224 314 256 69 332 224	meters           1.7           1.7           1.7           istance           3           Height           meters           1.8           1.5           1.0           1.5           1.8           1.5           1.0           1.5           1.8           1.8           1.8           1.8           1.8           1.8           1.8	Extrapola Comments RB 1 MHz; <sup>1</sup> RB 1 MHz; <sup>1</sup>	.0 VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 10 Hz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz VB: 1 MHz	

Account Manager:         Dean Eriksen           act:         Craig Owens         Class:         B           ard:         FCC Part 15.247/RSS-210         Class:         B           ::         Maximized readings, 1000 - 18000 MHz         Class:         B           to Receive mode at 5600 MHz, HT-40 Mode         Extrapolation Factor         0.0           icy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         0.0           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK	Model:         Dalmatian         Account           Contact:         Craig Owens         Account           tandard:         FCC Part 15.247/RSS-210         Account           n #9b:         Maximized readings, 1000 - 18000 MHz         Tset to Receive mode at 5600 MHz, HT-40 Mode           Enderstand         Frequency Range         Test Distance         Limit Distance         I           1000 - 18000 MHz         3         3         3         Account           equency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Co           MHz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           66.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           66.720         44.0         H         54.0         -15.0         AVG         219         1.6         RE           200.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           66.620         53.9         V         74.0         -20.1         PK         328         1.9         RE <td< th=""><th>Manager: Dean Eriks Class: B Extrapolation Factor 0.0 Domments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz</th></td<>	Manager: Dean Eriks Class: B Extrapolation Factor 0.0 Domments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
Account Manager:         Dean Eriksen           act:         Craig Owens         Class:         B           ard:         FCC Part 15.247/RSS-210         Class:         B           ::         Maximized readings, 1000 - 18000 MHz         to Receive mode at 5600 MHz, HT-40 Mode         Extrapolation Factor           ::         Maximized readings, 1000 - 18000 MHz         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           accy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         33.3         H         54.0         -15.5         AVG         263	Account I           Contact:         Craig Owens           andard:         FCC Part 15.247/RSS-210           #9b:         Maximized readings, 1000 - 18000 MHz           "set to Receive mode at 5600 MHz, HT-40 Mode           Image: Test Distance         Limit Distance           1000 - 18000 MHz         3           quency         Level         Pol           RSS Gen         Detector         Azimuth           Height         Co           MHz         dBµV/m         v/h           Limit         Margin         Pk/QP/Avg         degrees           66.700         49.9         V         54.0         -4.1           66.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           66.720         44.0         H         54.0         -15.0         AVG         325         1.3         RE           60.750         44.0         H         54.0         -15.2         AVG         214         1.0         RE           66.620         53.9         V         54.0         -15.5         AVG         263         1.0         RE           66.480         50.2         H	Class: B Extrapolation Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
Int:         FCC Part 15.247/RSS-210         Class:         B           Class:         B         Class:         B           Construction         Class:         B         Class:         B           Class:         Class:         B         Class:         B           Class:         Class:         Class:         B         Class:         B           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0         O         O           Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           O         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           O         49.9         V         54.0         -15.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           O         39.0         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           O         38.8         H         54.0         -15.5         AVG         263 <t< td=""><td>ndard:         FCC Part 15.247/RSS-210           #9b:         Maximized readings, 1000 - 18000 MHz           set to Receive mode at 5600 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         I           1000 - 18000 MHz         3         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Cc           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         5           5.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.2         AVG         214         1.0         RE           6.620         53.9         V         74.0         -20.1         PK         328         1.9         RE           3.320         31.3         H         54.0         -15.5         AVG         263         1.0         RE           5.4800         50.2</td><td>Extrapolation Factor 0.0 omments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz</td></t<>	ndard:         FCC Part 15.247/RSS-210           #9b:         Maximized readings, 1000 - 18000 MHz           set to Receive mode at 5600 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         I           1000 - 18000 MHz         3         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Cc           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters         5           5.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.2         AVG         214         1.0         RE           6.620         53.9         V         74.0         -20.1         PK         328         1.9         RE           3.320         31.3         H         54.0         -15.5         AVG         263         1.0         RE           5.4800         50.2	Extrapolation Factor 0.0 omments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
Maximized readings, 1000 - 18000 MHz to Receive mode at 5600 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           acy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           0         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 10 Hz           20         53.1         H         74.0         -20.9         PK <td< td=""><td>#9b: Maximized readings, 1000 - 18000 MHz set to Receive mode at 5600 MHz, HT-40 Mode         Frequency Range       Test Distance       Limit Distance       I         1000 - 18000 MHz       3       3       3         quency       Level       Pol       RSS Gen       Detector       Azimuth       Height       Co         1Hz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters       6.700         6.700       49.9       V       54.0       -4.1       AVG       328       1.9       RE         6.720       44.0       H       54.0       -10.0       AVG       219       1.6       RE         3.400       39.0       V       54.0       -15.0       AVG       325       1.3       RE         0.840       38.8       H       54.0       -15.2       AVG       263       1.0       RE         0.910       38.5       V       54.0       -15.5       AVG       263       1.0       RE         3.20       31.3       H       54.0       -20.1       PK       328       1.9       RE         6.420       53.9       V       74.0       -22.7       AVG</td><td>Extrapolation Factor 0.0 omments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz</td></td<>	#9b: Maximized readings, 1000 - 18000 MHz set to Receive mode at 5600 MHz, HT-40 Mode         Frequency Range       Test Distance       Limit Distance       I         1000 - 18000 MHz       3       3       3         quency       Level       Pol       RSS Gen       Detector       Azimuth       Height       Co         1Hz       dBµV/m       v/h       Limit       Margin       Pk/QP/Avg       degrees       meters       6.700         6.700       49.9       V       54.0       -4.1       AVG       328       1.9       RE         6.720       44.0       H       54.0       -10.0       AVG       219       1.6       RE         3.400       39.0       V       54.0       -15.0       AVG       325       1.3       RE         0.840       38.8       H       54.0       -15.2       AVG       263       1.0       RE         0.910       38.5       V       54.0       -15.5       AVG       263       1.0       RE         3.20       31.3       H       54.0       -20.1       PK       328       1.9       RE         6.420       53.9       V       74.0       -22.7       AVG	Extrapolation Factor 0.0 omments 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
to Receive mode at 5600 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0	set to Receive mode at 5600 MHz, HT-40 Mode           Frequency Range         Test Distance         Limit Distance         I           1000 - 18000 MHz         3         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Cc           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           6.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           6.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           0.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           3.320         31.3         H         74.0         -20.9         PK         214         1.0         RE           3.320	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Frequency Range         Test Distance         Limit Distance         Extrapolation Factor           1000 - 18000 MHz         3         3         0.0           acy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           40         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20	Frequency Range         Test Distance         Limit Distance         I           1000 - 18000 MHz         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Co           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           0.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           3.20         31.3         H         74.0         -20.1         PK         328         1.9         RE           5.480         50.2         H         74.0         -22.7         AVG	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1000 - 18000 MHz         3         3         0.0           icy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -20.9         PK         214         1.0         <	1000 - 18000 MHz         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Co           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           0.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           3.20         53.1         H         74.0         -20.1         PK         328         1.9         RE           3.320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           3.320         31.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1000 - 18000 MHz         3         3         0.0           icy         Level         Pol         RSS Gen         Detector         Azimuth         Height         Comments           dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           20         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -20.9         PK         214         1.0         <	1000 - 18000 MHz         3         3           uency         Level         Pol         RSS Gen         Detector         Azimuth         Height         Co           Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           6.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           6.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           00.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           00.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           00.750         53.1         H         74.0         -20.1         PK         328         1.9         RE           0.750         53.1         H         74.0         -22.7         AVG         360         1.0         RE           0.560         49.8	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           40         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20         31.3	Hz         dBμV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           66.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           66.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           33.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           00.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           00.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           06.620         53.9         V         74.0         -20.1         PK         328         1.9         RE           00.750         53.1         H         74.0         -22.7         AVG         360         1.0         RE           33.320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           36.480         50.2         H         74.0         -23.8         PK	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           00         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           40         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20         31.3	Hz         dBµV/m         v/h         Limit         Margin         Pk/QP/Avg         degrees         meters           5.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.700         49.9         V         54.0         -10.0         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           3.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           0.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           6.620         53.9         V         74.0         -20.1         PK         328         1.9         RE           3.320         31.3         H         74.0         -22.7         AVG         360         1.0         RE           6.480         50.2         H         74.0         -23.8         PK         2	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
D0         49.9         V         54.0         -4.1         AVG         328         1.9         RB 1 MHz; VB: 10 Hz           20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           20         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -20.9         PK         214         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           2	b.700         49.9         V         54.0         -4.1         AVG         328         1.9         RE           5.720         44.0         H         54.0         -10.0         AVG         219         1.6         RE           8.400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           0.840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           0.910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           0.620         53.9         V         74.0         -20.1         PK         328         1.9         RE           0.750         53.1         H         74.0         -22.7         AVG         360         1.0         RE           3.320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           0.560         49.8         V         74.0         -23.8         PK         <	3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 1 MHz
20         44.0         H         54.0         -10.0         AVG         219         1.6         RB 1 MHz; VB: 10 Hz           20         39.0         V         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           40         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -20.9         PK         214         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         74.0         -23.8         PK         219         1.6         RB 1 MHz; VB: 1 MHz           6	720       44.0       H       54.0       -10.0       AVG       219       1.6       RE         .400       39.0       V       54.0       -15.0       AVG       325       1.3       RE         0.840       38.8       H       54.0       -15.2       AVG       214       1.0       RE         0.910       38.5       V       54.0       -15.5       AVG       263       1.0       RE         0.910       38.5       V       54.0       -15.5       AVG       263       1.0       RE         6.20       53.9       V       74.0       -20.1       PK       328       1.9       RE         0.750       53.1       H       74.0       -20.9       PK       214       1.0       RE         320       31.3       H       54.0       -22.7       AVG       360       1.0       RE         .320       31.3       H       54.0       -22.7       AVG       360       1.0       RE         .330       50.2       H       74.0       -23.8       PK       219       1.6       RE         .340       45.7       V       74.0       -28.3 <t< td=""><td>3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 1 MHz</td></t<>	3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 10 Hz         3 1 MHz; VB: 1 MHz         3 1 MHz; VB: 1 MHz
00         39.0         V         54.0         -15.0         AVG         325         1.3         RB 1 MHz; VB: 10 Hz           40         38.8         H         54.0         -15.2         AVG         214         1.0         RB 1 MHz; VB: 10 Hz           10         38.5         V         54.0         -15.5         AVG         263         1.0         RB 1 MHz; VB: 10 Hz           20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           20         53.1         H         74.0         -20.9         PK         214         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 10 Hz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         74.0         -23.8         PK         219         1.6         RB 1 MHz; VB: 1 MHz           60         49.8         V         74.0         -24.2         PK         263         1.0         RB 1 MHz; VB: 1 MHz           40	400         39.0         V         54.0         -15.0         AVG         325         1.3         RE           .840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           .910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           .620         53.9         V         74.0         -20.1         PK         328         1.9         RE           .750         53.1         H         74.0         -20.9         PK         214         1.0         RE           .320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           .320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           .560         49.8         V         74.0         -23.8         PK         219         1.6         RE           .560         49.8         V         74.0         -28.3         PK         325         1.3         RE           .190         42.1         H         74.0         -31.9         PK         360	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
40       38.8       H       54.0       -15.2       AVG       214       1.0       RB 1 MHz; VB: 10 Hz         10       38.5       V       54.0       -15.5       AVG       263       1.0       RB 1 MHz; VB: 10 Hz         20       53.9       V       74.0       -20.1       PK       328       1.9       RB 1 MHz; VB: 1 MHz         50       53.1       H       74.0       -20.9       PK       214       1.0       RB 1 MHz; VB: 1 MHz         20       31.3       H       54.0       -22.7       AVG       360       1.0       RB 1 MHz; VB: 10 Hz         20       31.3       H       54.0       -22.7       AVG       360       1.0       RB 1 MHz; VB: 10 Hz         20       31.3       H       54.0       -22.7       AVG       360       1.0       RB 1 MHz; VB: 10 Hz         20       31.3       H       74.0       -23.8       PK       219       1.6       RB 1 MHz; VB: 1 MHz         60       49.8       V       74.0       -24.2       PK       263       1.0       RB 1 MHz; VB: 1 MHz         40       45.7       V       74.0       -28.3       PK       325       1.3       RB 1	840         38.8         H         54.0         -15.2         AVG         214         1.0         RE           910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           620         53.9         V         74.0         -20.1         PK         328         1.9         RE           750         53.1         H         74.0         -20.9         PK         214         1.0         RE           320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           480         50.2         H         74.0         -23.8         PK         219         1.6         RE           560         49.8         V         74.0         -24.2         PK         263         1.0         RE           340         45.7         V         74.0         -28.3         PK         325         1.3         RE           190         42.1         H         74.0         -31.9         PK         360         1.0         RE	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
10       38.5       V       54.0       -15.5       AVG       263       1.0       RB 1 MHz; VB: 10 Hz         20       53.9       V       74.0       -20.1       PK       328       1.9       RB 1 MHz; VB: 1 MHz         50       53.1       H       74.0       -20.9       PK       214       1.0       RB 1 MHz; VB: 1 MHz         20       31.3       H       54.0       -22.7       AVG       360       1.0       RB 1 MHz; VB: 10 Hz         20       31.3       H       54.0       -22.7       AVG       360       1.0       RB 1 MHz; VB: 10 Hz         20       31.3       H       74.0       -23.8       PK       219       1.6       RB 1 MHz; VB: 1 MHz         60       49.8       V       74.0       -24.2       PK       263       1.0       RB 1 MHz; VB: 1 MHz         40       45.7       V       74.0       -28.3       PK       325       1.3       RB 1 MHz; VB: 1 MHz         20       42.1       H       74.0       -31.9       PK       360       1.0       RB 1 MHz; VB: 1 MHz         20       42.1       H       74.0       -31.9       PK       360       1.0       RB 1 M	910         38.5         V         54.0         -15.5         AVG         263         1.0         RE           520         53.9         V         74.0         -20.1         PK         328         1.9         RE           750         53.1         H         74.0         -20.9         PK         214         1.0         RE           320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           480         50.2         H         74.0         -23.8         PK         219         1.6         RE           560         49.8         V         74.0         -28.3         PK         219         1.6         RE           340         45.7         V         74.0         -28.3         PK         325         1.3         RE           190         42.1         H         74.0         -31.9         PK         360         1.0         RE	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
20         53.9         V         74.0         -20.1         PK         328         1.9         RB 1 MHz; VB: 1 MHz           50         53.1         H         74.0         -20.9         PK         214         1.0         RB 1 MHz; VB: 1 MHz           20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 10 Hz           30         50.2         H         74.0         -23.8         PK         219         1.6         RB 1 MHz; VB: 1 MHz           60         49.8         V         74.0         -24.2         PK         263         1.0         RB 1 MHz; VB: 1 MHz           40         45.7         V         74.0         -28.3         PK         325         1.3         RB 1 MHz; VB: 1 MHz           90         42.1         H         74.0         -31.9         PK         360         1.0         RB 1 MHz; VB: 1 MHz           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak         The peak	620         53.9         V         74.0         -20.1         PK         328         1.9         RE           750         53.1         H         74.0         -20.9         PK         214         1.0         RE           320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           480         50.2         H         74.0         -23.8         PK         219         1.6         RE           560         49.8         V         74.0         -24.2         PK         263         1.0         RE           340         45.7         V         74.0         -28.3         PK         325         1.3         RE           190         42.1         H         74.0         -31.9         PK         360         1.0         RE	3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
20         31.3         H         54.0         -22.7         AVG         360         1.0         RB 1 MHz; VB: 10 Hz           30         50.2         H         74.0         -23.8         PK         219         1.6         RB 1 MHz; VB: 1 MHz           60         49.8         V         74.0         -24.2         PK         263         1.0         RB 1 MHz; VB: 1 MHz           40         45.7         V         74.0         -28.3         PK         325         1.3         RB 1 MHz; VB: 1 MHz           90         42.1         H         74.0         -31.9         PK         360         1.0         RB 1 MHz; VB: 1 MHz           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	320         31.3         H         54.0         -22.7         AVG         360         1.0         RE           480         50.2         H         74.0         -23.8         PK         219         1.6         RE           560         49.8         V         74.0         -24.2         PK         263         1.0         RE           340         45.7         V         74.0         -28.3         PK         325         1.3         RE           190         42.1         H         74.0         -31.9         PK         360         1.0         RE	3 1 MHz; VB: 10 Hz 3 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
30         50.2         H         74.0         -23.8         PK         219         1.6         RB 1 MHz; VB: 1 MHz           60         49.8         V         74.0         -24.2         PK         263         1.0         RB 1 MHz; VB: 1 MHz           40         45.7         V         74.0         -28.3         PK         325         1.3         RB 1 MHz; VB: 1 MHz           20         42.1         H         74.0         -31.9         PK         360         1.0         RB 1 MHz; VB: 1 MHz           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	180         50.2         H         74.0         -23.8         PK         219         1.6         RE           560         49.8         V         74.0         -24.2         PK         263         1.0         RE           340         45.7         V         74.0         -28.3         PK         325         1.3         RE           90         42.1         H         74.0         -31.9         PK         360         1.0         RE	8 1 MHz; VB: 1 MHz 3 1 MHz; VB: 1 MHz
60         49.8         V         74.0         -24.2         PK         263         1.0         RB 1 MHz; VB: 1 MHz           40         45.7         V         74.0         -28.3         PK         325         1.3         RB 1 MHz; VB: 1 MHz           20         42.1         H         74.0         -31.9         PK         360         1.0         RB 1 MHz; VB: 1 MHz           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	560         49.8         V         74.0         -24.2         PK         263         1.0         RE           40         45.7         V         74.0         -28.3         PK         325         1.3         RE           90         42.1         H         74.0         -31.9         PK         360         1.0         RE           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the F	3 1 MHz; VB: 1 MHz
40         45.7         V         74.0         -28.3         PK         325         1.3         RB 1 MHz; VB: 1 MHz           20         42.1         H         74.0         -31.9         PK         360         1.0         RB 1 MHz; VB: 1 MHz           Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	Ado         45.7         V         74.0         -28.3         PK         325         1.3         RE           90         42.1         H         74.0         -31.9         PK         360         1.0         RE	
P0       42.1       H       74.0       -31.9       PK       360       1.0       RB 1 MHz; VB: 1 MHz         Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	90     42.1     H     74.0     -31.9     PK     360     1.0     RE       Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the F	
Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the FCC states that the peak	Above 1 GHz, the FCC specifies the limit as an average measurement. In addition, the F	
	· · · · · · · · · · · · · · · · · · ·	3 I MHZ; VB: I MHZ
any emission above 1 GHz, can not exceed the average limit by more than 20 dB.		CC states that the pe
	any emission above 1 GHz, can not exceed the average limit by more than 20 dB.	

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4	
	A division of 17AS

Advision of			
Client:	Ruckus Wireless	Job Number:	J73710
Model:	Dalmatian	T-Log Number:	T73803
		Account Manager:	Dean Eriksen
Contact:	Craig Owens		-
Emissions Standard(s):	FCC Part 15.247/RSS-210	Class:	В
Immunity Standard(s):	-	Environment:	-
			-

**EMC** Test Data

For The

### **Ruckus Wireless**

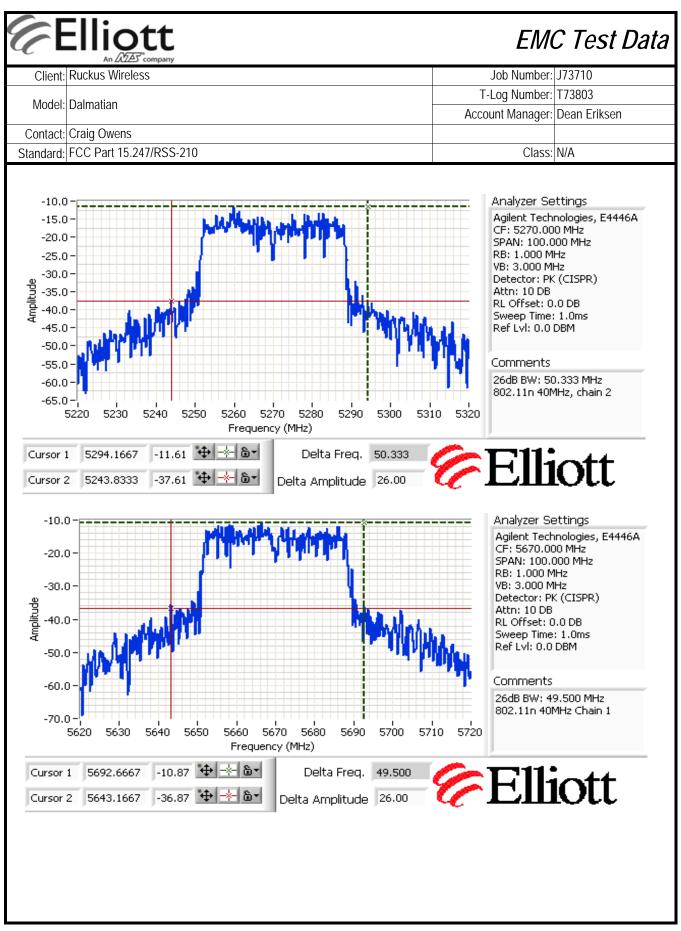
Model

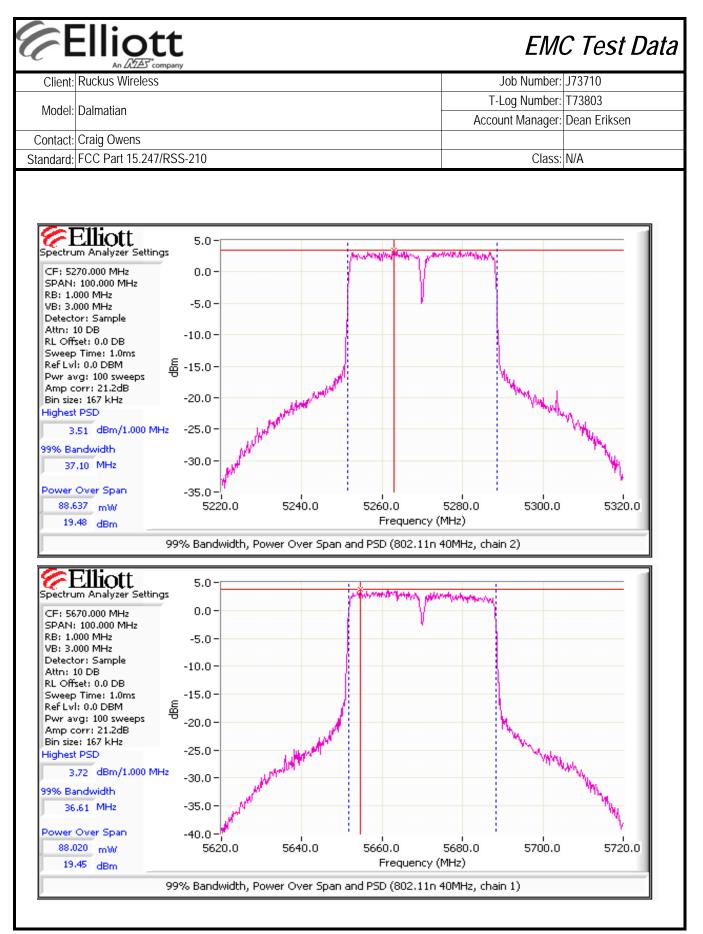
Dalmatian

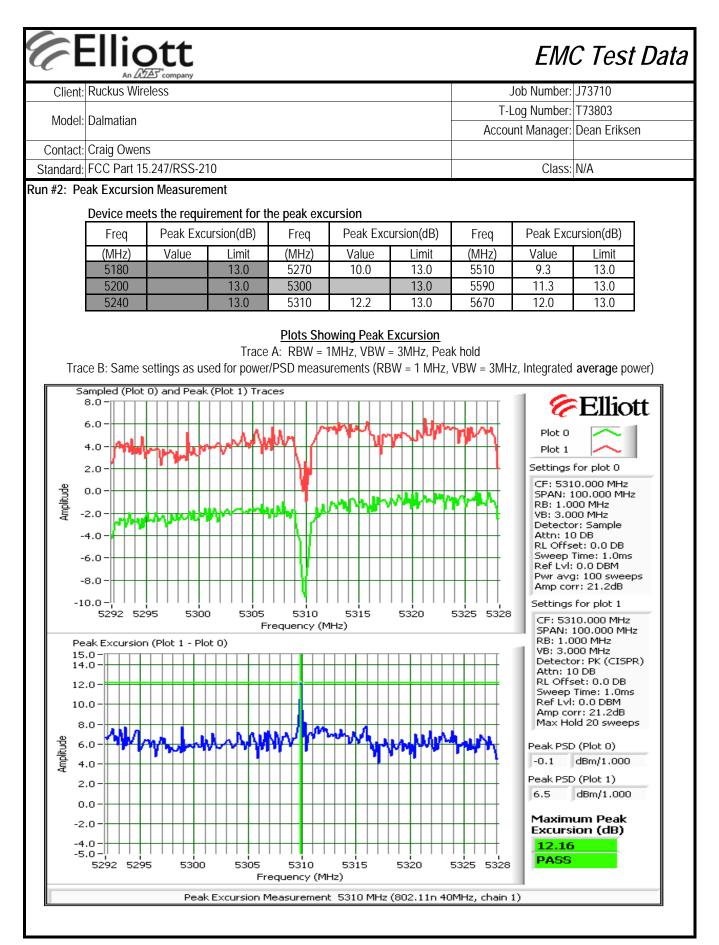
Date of Last Test: 3/20/2009

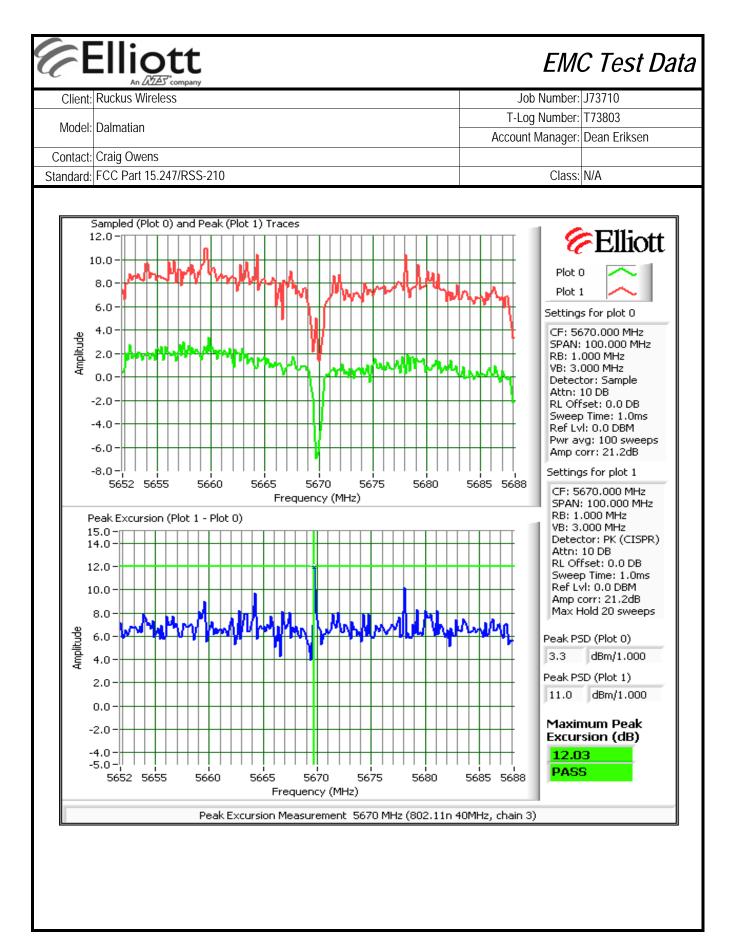
<b>C</b> E		tt			EM	C Test Data
Client:	Ruckus Wireless	S		Jo	b Number:	J73710
				T-Lo	g Number:	T73803
Model:	Dalmatian				•	Dean Eriksen
	Craig Owens					
Standard:	FCC Part 15.24	7/RSS-210			Class:	N/A
Test Spe <sup>,</sup>	cific Details	PSD, Peak Excursion,	ort Measurem , Bandwidth and	nents d Spurious	s Emiss	
	Objective: The spe	e objective of this test session is to ecification listed above.	perform final qualificatio	on testing of the	EUT with r	espect to the
Те	Date of Test: 3/2 est Engineer: Raf est Location: SV	fael Varelas	Config. Used: Config Change: EUT Voltage:	: None		
When me analyzer o allow for t	or power meter vi	ration ducted emissions from the EUT's ar ria a suitable attenuator to prevent of nuators and cables used. Temperature: Rel. Humidity:	overloading the measure 18.5 °C	•		
Summary	y of Results					
Ru	ın #	Test Performed	Limit	Pass / Fail		Result / Margin
	1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass		8 dBm (0.241W)
	1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass		5 dBm (0.224W)
	1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass		7.97 dBm/MHz
	1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	6	3.01 dBm/MHz
	1	26dB Bandwidth 99% Bandwidth	15.407 PSS 210	-		50.3 MHz 37.1 MHz
	1 2	99% Bandwidth Peak Excursion Envelope	RSS 210 15.407(a) (6)	- Dass		37.1 MHZ 12.2 dB
		Antenna Conducted		Pass	Aller	missions below the
	3	Out of Band Spurious	15.407(b)	Pass		7dBm/MHz limit
No modifi		uring Testing de to the EUT during testing Standard				

Client:	Ruckus Wire	eless						Job Number:		
Model:	I: Dalmatian T-Log Number: T73803 Account Manager: Dean Eriks						n			
Contact	Craig Owen:	<u>.</u>					ALLUI	unt manager:	Deall Ellkse	
	0	5.247/RSS-21	0					Class:	N/A	
Stanuaru.		.24//(00 21	0					01035.	14/74	
Run #1: Ba	ndwidth, Ou	tput Power a	ind Power s	spectral Den	sity					
							5	1		
	Antonn	a Gain (dBi):	Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>			
	Antenna	a Gain (OBI):	3.0	3.0	3.0	No	3.0			
Frequency	Software	26dB BW	Measure	d Output Po	ver <sup>1</sup> dBm	To	otal		Max Power	
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Limit (dBm)	(W)	Pass or F
5270	20.0	50.3	18.8	19.5	18.8	240.8	23.8	24.0	. ,	PASS
5310	17.5	47.7	15.3	16.2	16.1	116.5	20.7	24.0	0.241	PASS
5510	20.0	47.2	18.7	18.3	18.2	208.3	23.2	24.0		PASS
5590	20.0	45.5	19.0	18.3	18.5	218.7	23.4	24.0	0.224	PASS
5670	19.5	49.5	19.5	18.4	18.2	224.0	23.5	24.0		PASS
				2 2 4						
requency	<b>99%</b> <sup>4</sup>	Total	Р	SD <sup>2</sup> dBm/MH	-		I PSD	Li	mit	Pass or
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 <sup>3</sup>	
5270	37.1	23.8	3.3	3.5	2.8	6.3	7.97	11.0	11.0	PASS
5310	36.8	20.7	-0.1	0.8	0.5	3.3	5.20	11.0	11.0	PASS
5510	36.8	23.2	3.3	2.5	2.3	5.6	7.49	11.0	11.0	PASS
5590 5670	36.8	23.4 23.5	3.2 3.7	2.9 2.8	2.8 3.2	6.0 6.3	7.75	11.0	11.0	PASS
3070	36.8	23.0	3.7	2.0	3.Z	0.3	8.01	11.0	11.0	PASS
	Output powe	er measured i	using a spec	trum analyze	er (see plots	below):				
Note 1:	RBW=1MHz	, VB=3 MHz,	sample dete	ector, power	averaging or	n (transmitted	d signal was	continuous) a	ind power int	egration
	over 50 MHz		•	·	0 0		0		·	0
Note 2:		sing the same								
		0 the limit for								
Note 3:		. The limits a				-				-
		ated from the			5	sured 99% b	andwidth) by	more than 3	dB by the an	nount that
		ed value exce								
Note 4:		idth measure							£ 4   a - ! a al !! al	
		ystems the to								
		. The antenr	•					•	•	•
Note 5:		MIMO device	-						-	
		he highest ga						-		
		signals are c the product of			-	ain is the sun	n (in inear te	rms) or the g	ains ior each	chain an
		<u></u>	⊢ше енесн∨	e uaiti aftu 10	лагиоwer.					







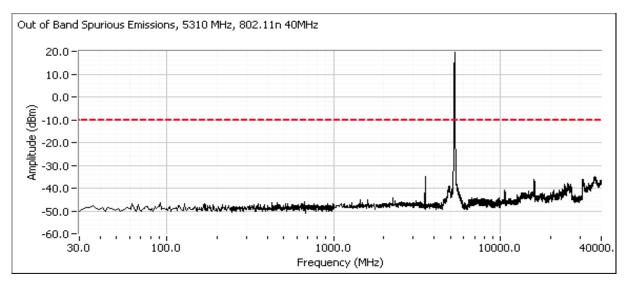


	Elliott An DZAT company			C Test I
Client:	: Ruckus Wireless		Job Number:	
Model:	Dalmatian		T-Log Number:	
Contract			Account Manager:	Dean Eriksen
	: Craig Owens : FCC Part 15.247/RSS-210		Class:	Ν/Λ
un #3: Oi	ut Of Band Spurious Emissions - Antenna	Conducted		
all chains tra	ices: Antenna gain used is the effective gain ransmitting simultaneously and connected to t riate load (50 ohms).			
	Number of transmit chains: Maximum Antenna Gain: Spurious Limit: Limit Used On Plots <sup>Note 1</sup> :	3.0 dBi -27.0 dBm/MHz eirp -30.0 dBm/MHz Average -10.0 dBm/MHz Peak Lim	Limit (RB=1MHz, VB=10Hz) it (RB=VB=1MHz)	
Note 1:	The -27dBm/MHz limit is an eirp limit. The l consideration the maximum antenna gain (li more than 50MHz from the bands and that a known at these frequencies. All spurious signals below 1GHz are measu	imit = -27dBm - antenna gain are close to the limit are mad	). Radiated field strength me e to determine compliance a	easurements fo
Note 2: Note 3: Note 4:	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -270	Band edge are subject to a li dBm eirp limit also applies in	mit of -17dBm EIRP the 5150 - 5250 MHz band.	
Note 3: Note 4: Note 5:	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15	Band edge are subject to a li dBm eirp limit also applies in	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Note 3: Note 4: Note 5: Low chann	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 Plots Showing Ou	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Vote 3: Vote 4: Vote 5: Low chann	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Note 3: Note 4: Note 5: Low chann Out of 21	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
lote 3: lote 4: lote 5: .ow chann Out of 21	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Note 3: Note 4: Note 5: Low chann Out of 21	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Note 3: Note 4: Note 5: Low chann Out of 11	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Vote 3: Vote 4: Vote 5: Low chann Out of 11	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Vote 3: Vote 4: Vote 5: Low chann Out of 11 (Map) -11 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 - 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Vote 3: Vote 4: Vote 5: Low chann Out of 11 (Map) -11 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21 (Map) -21	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	
Note 3: Note 4: Note 5: Low chann Out of 21 11 21 11 11 11 21 21 24 31 -21 -21 -21 -21 -21 -21 -21 -2	Signals within 10MHz of the 5.725 or 5.825 If the device is for outdoor use then the -27c Signals that fall in the restricted bands of 15 <u>Plots Showing Ou</u> nel, 5250 - 5350 MHz Band Band Spurious Emissions, 5270 MHz, 802.1 0.0 - 0.0 - 0.0 - 0.0 -	Band edge are subject to a li dBm eirp limit also applies in 5.205 are subject to the limit o ut-Of-Band Emissions (RBV	mit of -17dBm EIRP the 5150 - 5250 MHz band. if 15.209.	

Æ	Elliott An AZAS <sup>*</sup> company	EMC Test Data
Client:	Ruckus Wireless	Job Number: J73710
Madalı	Dalmatian	T-Log Number: T73803
wouer.	Daimatian	Account Manager: Dean Eriksen
Contact:	Craig Owens	
Standard:	FCC Part 15.247/RSS-210	Class: N/A
High chann	el 5250 - 5350 MHz Band	

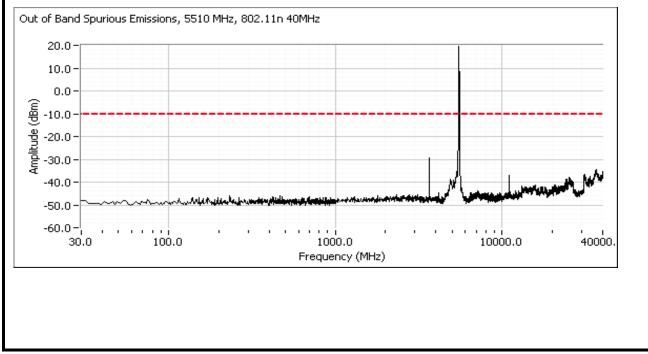
#### High channel, 5250 - 5350 MHz Band

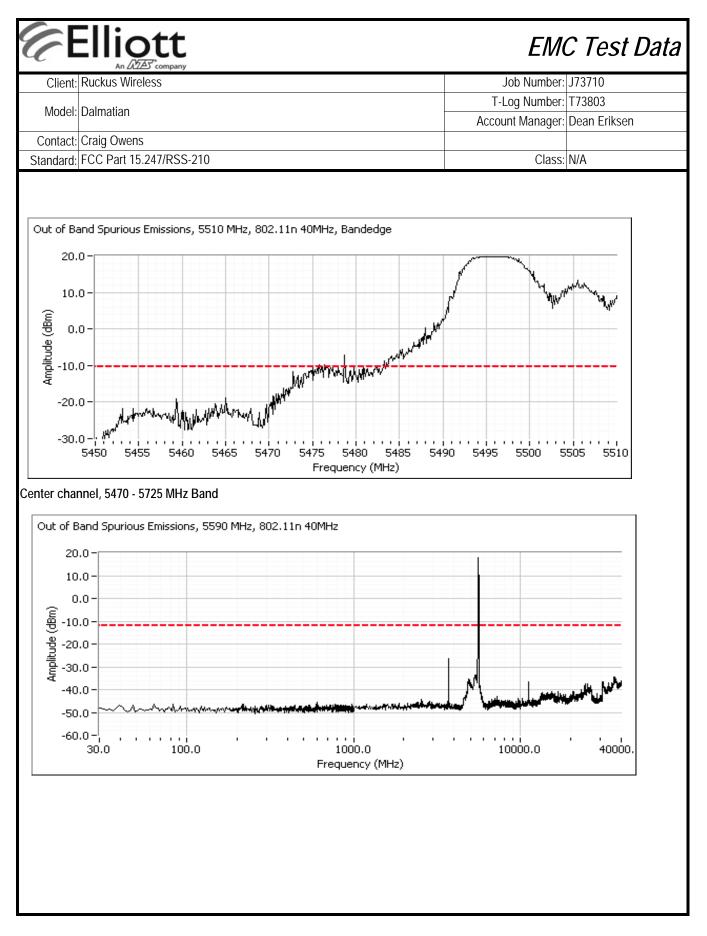
Compliance with the radiated limits for the restricted band immediately above 5350MHz is demonstrated through the radiated emissions tests.

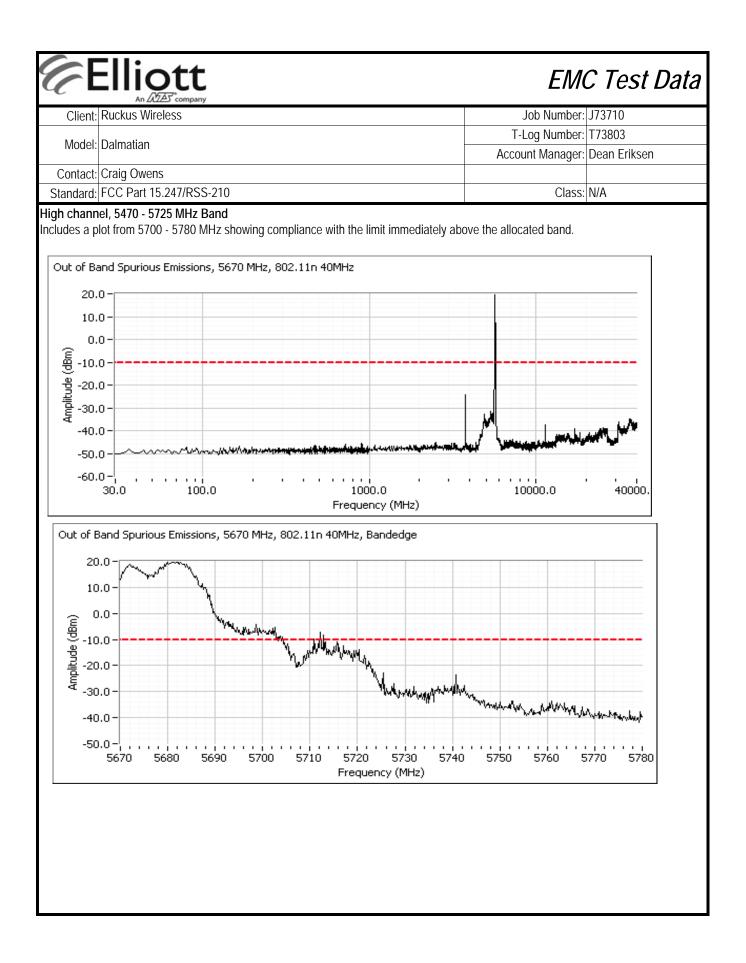


#### Low channel, 5470 - 5725 MHz Band

Includes a plot from 5460 - 5500 MHz showing compliance with the limit immediately below the allocated band from 5460-5470 MHz. Compliance with the radiated limits for the restricted band below 5460 MHz is demonstrated through the radiated emissions test

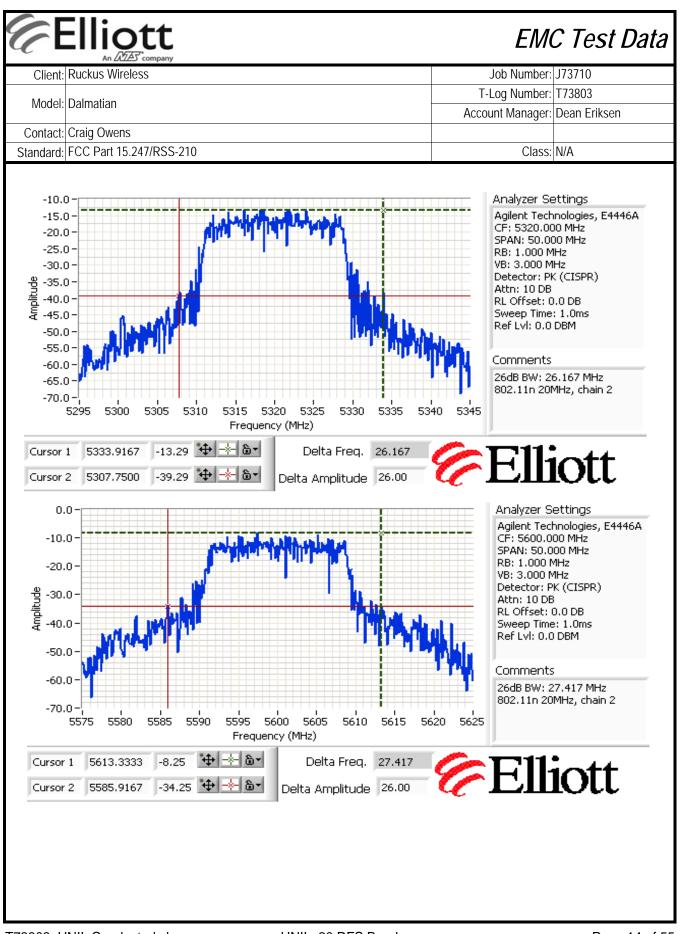


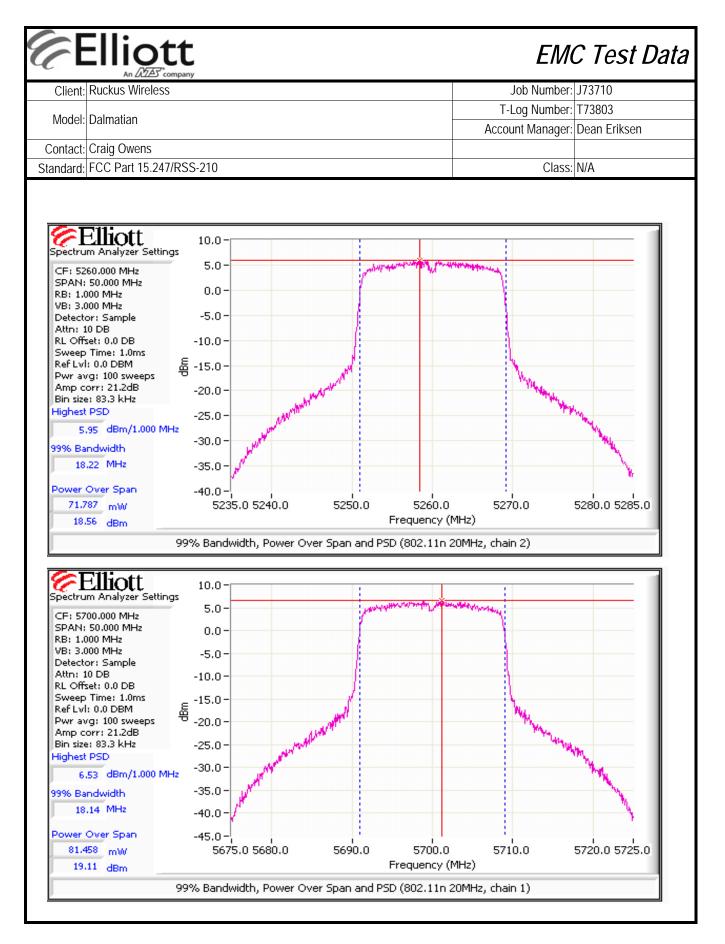


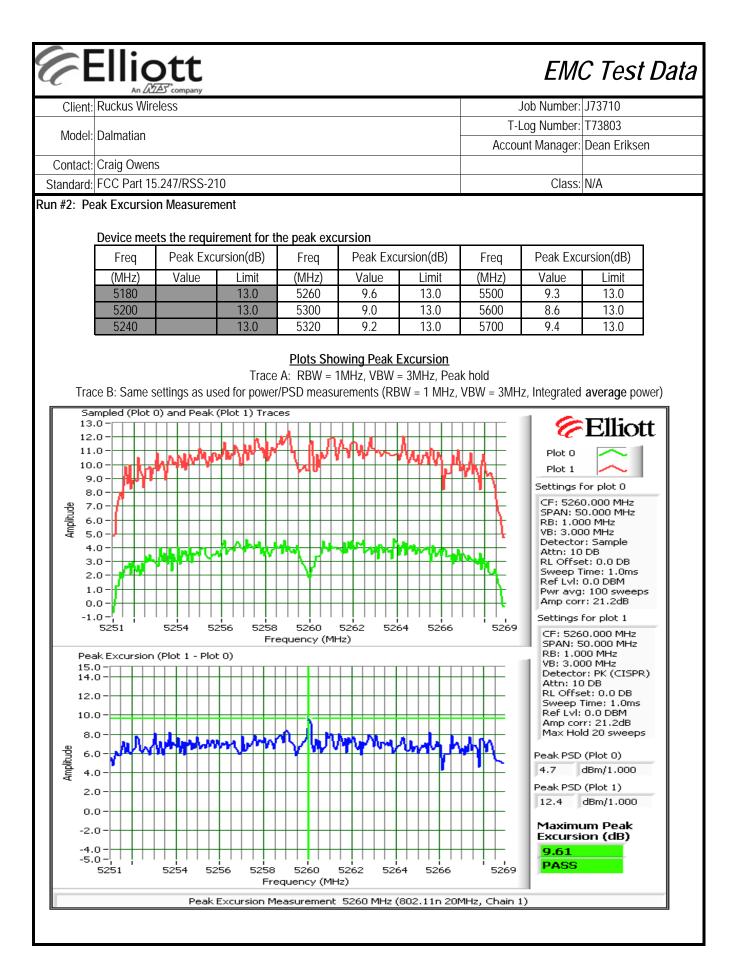


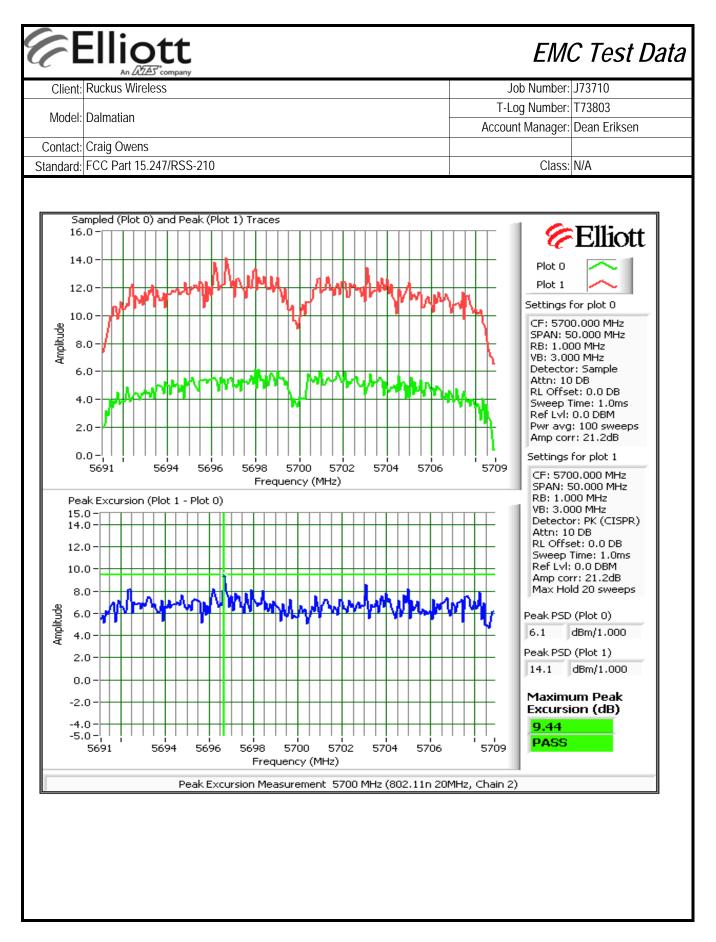
<b>C</b> E		tt		EMC Test Data			
Client:	Ruckus Wirele	2SS	Job Number: J73710				
				T-L	og Number:	T73803	
Model:	Dalmatian			0	Dean Eriksen		
	Craig Owens						
Standard:	FCC Part 15.2	47/RSS-210			Class:	N/A	
	cific Details	r, PSD, Peak Excursion, he objective of this test session is to pecification listed above.	ort Measurem , Bandwidth and	ents d Spuriou	s Emiss		
Те	est Engineer: Riest Location: S	: None : 120V/60Hz					
When meanalyzer of allow for the <b>Ambient</b> (	or power meter he external atte Conditions:	nducted emissions from the EUT's an via a suitable attenuator to prevent c enuators and cables used.		•			
Summary	of Results						
Ru	n #	Test Performed	Limit	Pass / Fail		Result / Margin	
	1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass		0 dBm (0.198W)	
	1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass		5 dBm (0.224W)	
	1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass		0.6 dBm/MHz	
	1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	1	0.97 dBm/MHz	
	1	26dB Bandwidth	15.407	-		27.4 MHz	
	1	99% Bandwidth	RSS 210	-		18.2 MHz	
	2	Peak Excursion Envelope	15.407(a) (6)	Pass	All or	9.6 dBm	
	3	Antenna Conducted Out of Band Spurious	15.407(b)	Pass		nissions below the 7dBm/MHz limit	
No modifice <b>Deviation</b>	cations were m Is From The	During Testing ade to the EUT during testing Standard e from the requirements of the standa	ard.				

Client:	Ruckus Wireless							Job Number:	J73710			
Model	: Dalmatian							T-Log Number:		T73803		
MOUCI.	Daimatian			Αссоι	unt Manager:	Dean Eriksen						
	Craig Owen:											
Standard:	FCC Part 15	5.247/RSS-21	0					Class:	N/A			
Run #1: Bai	ndwidth, Ou	tput Power a	and Power s	spectral Den	sity							
			Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>	]				
	Antenna	a Gain (dBi):	3.0	3.0	3.0	No	3.0					
		· · · ·						4				
Frequency	Software	26dB BW	Measured Output Power <sup>1</sup> dBm			Total		Limit (dBm)	Max Power	Pass or Fa		
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Linii (ubiii)	(W)	F 455 UI F		
5260	19.0	25.3	17.4	18.6	18.2	193.7	22.9	24.0		PASS		
5300	19.5	25.3	17.6	18.4	18.5	197.5	23.0	24.0	0.198	PASS		
5320	16.0	26.2	14.4	14.8	14.9	88.6	19.5	24.0		PASS		
5500	19.5	26.8	18.0	17.5	17.3	173.0	22.4	24.0		PASS		
5600	20.0	27.4	18.8	19.0	18.4	224.5	23.5	24.0	0.224	PASS		
5700	19.5	27.1	19.1	18.7	18.3	223.0	23.5	24.0		PASS		
								1		•		
Frequency	<b>99</b> % <sup>4</sup>	Total	Р	SD <sup>2</sup> dBm/MF	Ηz	Total	l PSD Lir		nit Dass o	Pass or F		
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 <sup>3</sup>	Pass of F		
5260	18.2	22.9	4.7	6.0	5.6	10.5	10.21	11.0	11.0	PASS		
5300	18.1	23.0	5.5	6.0	6.1	11.6	10.63	11.0	11.0	PASS		
5320	18.1	19.5	2.0	2.3	2.4	5.0	7.01	11.0	11.0	PASS		
5500	18.1	22.4	5.6	5.2	4.8	9.9	9.97	11.0	11.0	PASS		
5600	18.1	23.5	6.2	6.3	6.1	12.5	10.97	11.0	11.0	PASS		
5700	18.1	23.5	6.5	6.1	5.9	12.4	10.95	11.0	11.0	PASS		
		er measured	• •	5	· ·							
Note 1:		z, VB=3 MHz,	sample det	ector, power	averaging or	n (transmitted	l signal was (	continuous) a	and power in	tegration		
	over 50 MHz											
Note 2:		sing the same										
		0 the limit for					0					
Note 3:		. The limits a										
		ated from the				sured 99% ba	andwidth) by	more than 3	dB by the an	nount that		
Nulla A		d value exce				10/		חח				
Note 4:		idth measure							f the individu	al abaina (		
Note 5:		ystems the to										
	linear terms). The antenna gain used to determine the EIRP and limits for PSD/Output power depends on the operating											
	mode of the MIMO device. If the signals on the non-coherent between the transmit chains then the gain used to determine											
	the limits is the highest gain of the individual chains and the EIRP is the sum of the products of gain and power on each chain. If the signals are coherent then the effective antenna gain is the sum (in linear terms) of the gains for each chain and											
						ain is the sum	n (in linear te	rms) of the g	ains for each	chain and		
		IND DRODUCT O	i ine ettectiv	e gain and to	nal nower							

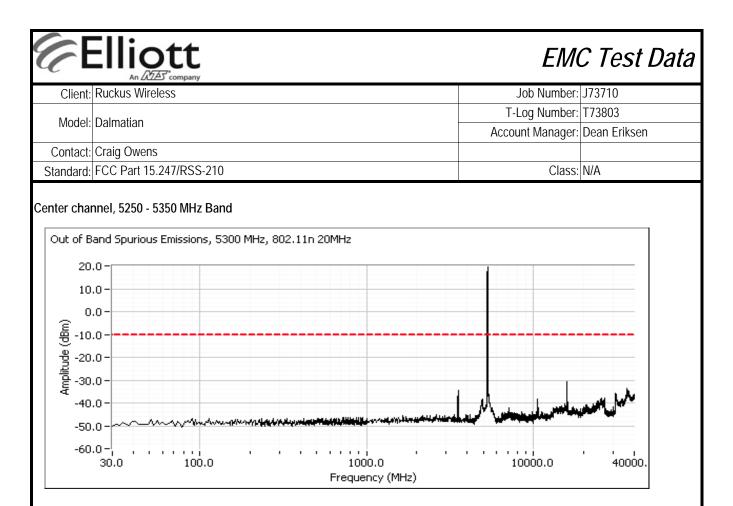






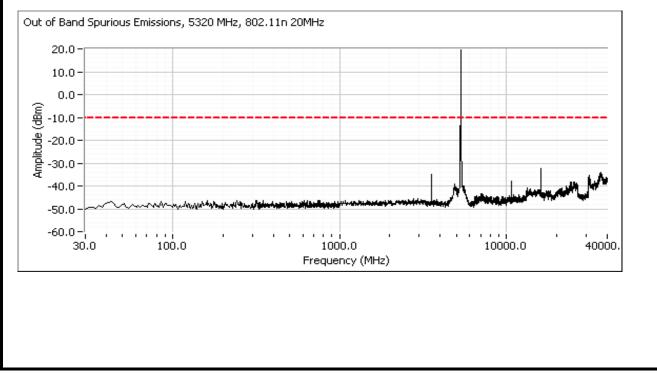


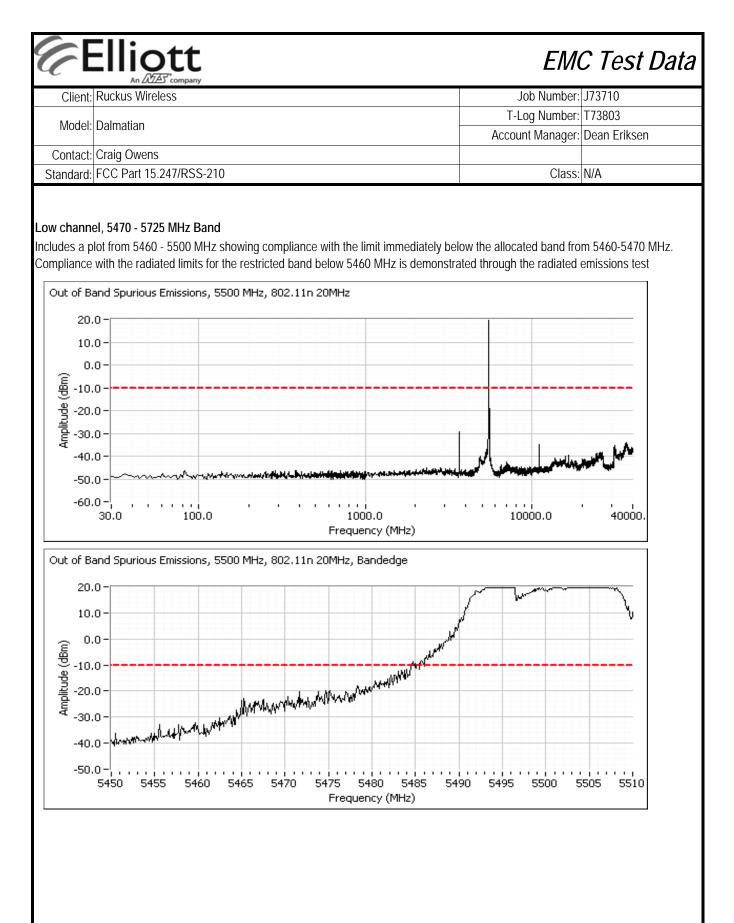
	An	ZAZAS company				ا من ا ما م	r. 170710
Client:	Ruckus V	Vireless				Job Numbe	
Model:	Dalmatiar	ı				T-Log Number	
					A	ccount Manage	r: Dean Eriksen
	Craig Ow					01	- 11/4
		15.247/RSS-210 d Spurious Emissions - Anten				Class	s: N/A
e approrpi	considera more thar	Number of transmit chains: Maximum Antenna Gain: Spurious Limit: Limit Used On Plots <sup>Note 1</sup> : Bm/MHz limit is an eirp limit. Th tion the maximum antenna gain n 50MHz from the bands and tha	(limit = -27dBm - an	Average L Peak Limi ort conducte	t (RB=VB= ed measure . Radiated	=1MHz) ements is adjust I field strength n	ted to take into neasurements for
lote 2: lote 3: lote 4: lote 5:	All spurio Signals w If the dev	these frequencies. us signals below 1GHz are mea ithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 nat fall in the restricted bands of Plots Showing	25 Band edge are su 27dBm eirp limit also 15.205 are subject to	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
lote 3: lote 4: lote 5: ow chann	All spurio Signals w If the dev Signals th el, 5250 -	us signals below 1GHz are mea ithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 nat fall in the restricted bands of	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
lote 3: lote 4: lote 5: ow chann Out of	All spurio Signals w If the dev Signals th el, 5250 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	·
lote 3: lote 4: lote 5: ow chann Out of 21	All spurio Signals w If the dev Signals th el, 5250 - Band Spur	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: lote 4: lote 5: ow chann Out of 21	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: ote 4: ote 5: ow chann Out of 21	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: ote 4: ote 5: ow chann Out of 21 11	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 - 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: ote 4: ote 5: ow chann Out of 21	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: ote 4: ote 5: w chann Out of 20 10 (mgp) aprilidue -10 -20 -20 -30 -30 -30 -30 -30 -30 -30 -3	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
Dite 3: Dite 4: Dite 5: Dite 5: Dite 5: Dite 5: Dite 5: Dite 6: Dite 6: Dit	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	
ote 3: ote 4: ote 5: ow chann Out of 20 10 10 10 10 21 10 21 10 21 10 21 21 21 24 24 24 24 24 24 24 24 24 24	All spurio Signals w If the dev Signals th el, 5250 - Band Spur 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	us signals below 1GHz are mea vithin 10MHz of the 5.725 or 5.82 ice is for outdoor use then the -2 hat fall in the restricted bands of <u>Plots Showing</u> 5350 MHz Band	25 Band edge are su 27dBm eirp limit also 15.205 are subject to Out-Of-Band Emiss	bject to a lir applies in the limit of	nit of -17d ne 5150 - 15.209.	Bm EIRP 5250 MHz band	

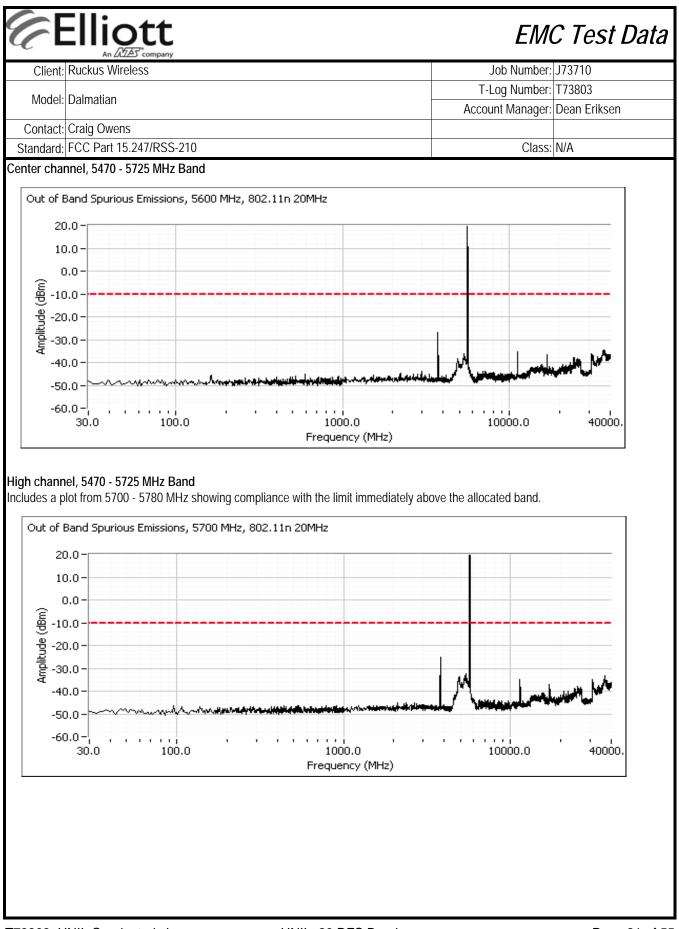


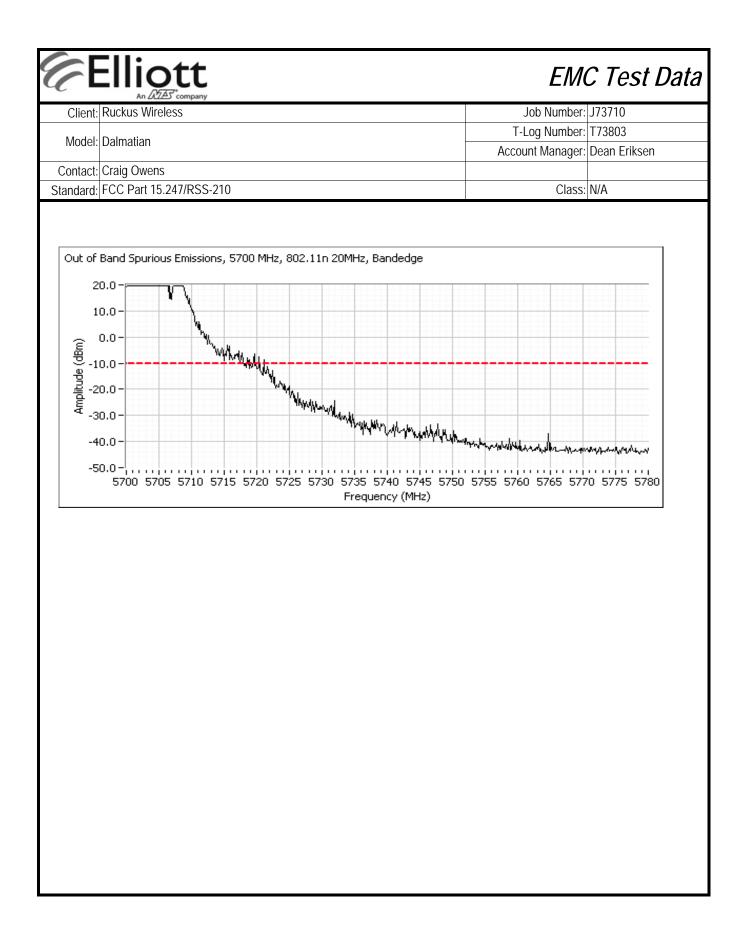
#### High channel, 5250 - 5350 MHz Band

Compliance with the radiated limits for the restricted band immediately above 5350MHz is demonstrated through the radiated emissions tests.



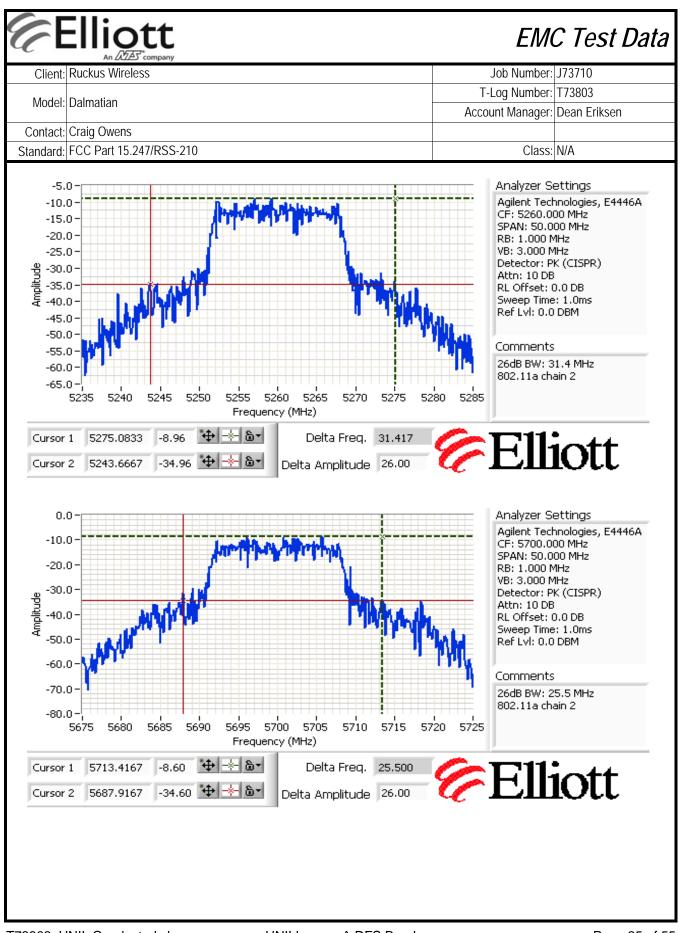


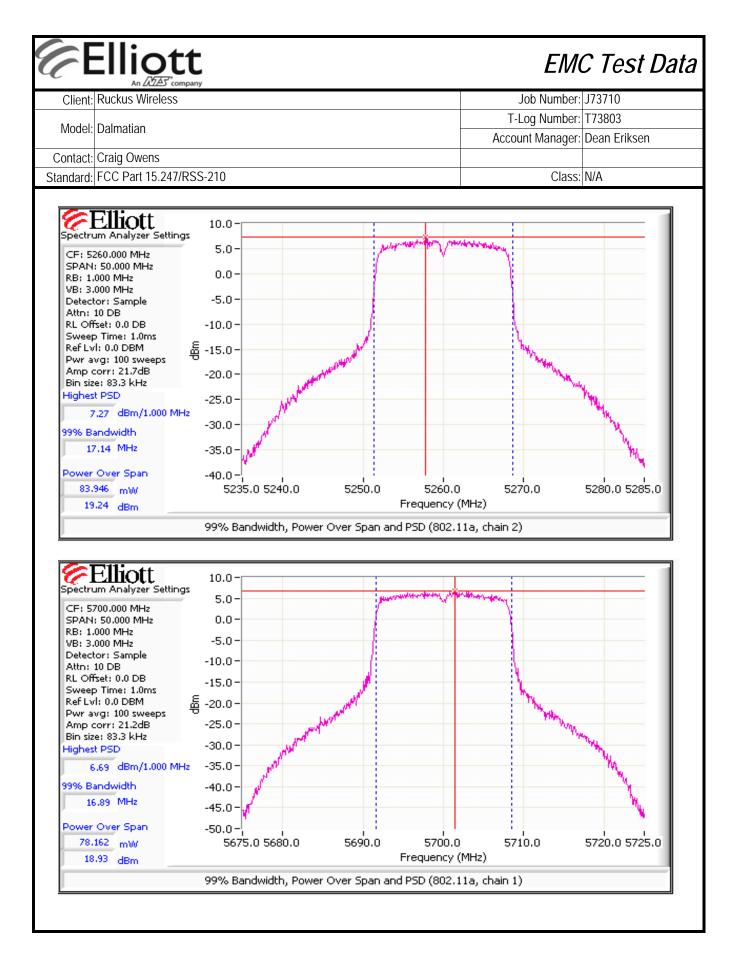




<b>E</b>		tt			EM	C Test Data
	An UZAS o	company		1		
Client:	Ruckus Wireless	<u>š</u>			ob Number:	
Model:	Dalmatian				og Number:	
				Accour	nt Manager:	Dean Eriksen
	Craig Owens					
Standard:	FCC Part 15.247	7/RSS-210			Class:	N/A
L Te Te	cific Details	<b>PSD, Peak Excursion,</b> e objective of this test session is to ecification listed above. 9/2009 hran Birgani OATS #2	ort Measurem , Bandwidth and	ents I Spuriou n testing of the 1 None	s Emiss	
When mea analyzer o allow for th Ambient (	asuring the condu or power meter vi	ucted emissions from the EUT's an ia a suitable attenuator to prevent o nuators and cables used. Temperature: Rel. Humidity:				
Ru	n #	Test Performed	Limit	Pass / Fail	F	Result / Margin
		Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass		1 dBm (0.205W)
1	1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass		1 dBm (0.205W)
1	l	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	1	0.95 dBm/MHz
		PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	1	0.99 dBm/MHz
1		26dB Bandwidth	15.407	-		31.4 MHz
1		99% Bandwidth	RSS 210	-		17.1 MHz
2	2	Peak Excursion Envelope	15.407(a) (6)	Pass		9.5 dB
	3	Antenna Conducted Out of Band Spurious	15.407(b)	Pass		nissions below the 7dBm/MHz limit
No modifice Deviation	cations were mad s From The S	uring Testing de to the EUT during testing Standard from the requirements of the standa	ard.			

Client:	Ruckus Wire	eless						Job Number:	J73710	
Model	Dalmatian						T-I	Log Number:	T73803	
would.	Daimatian						Αссоι	unt Manager:	Dean Erikse	en
	Craig Owen:									
Standard:	FCC Part 15	5.247/RSS-21	0					Class:	N/A	
Run #1: Ba	ndwidth, Ou	tput Power a	and Power s	spectral Den	sity					
			Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>	]		
	Antenna	a Gain (dBi):	3.0	3.0	3.0	No	3.0			
		· · · ·						4		
Frequency	Software	26dB BW	Measure	d Output Pov	wer <sup>1</sup> dBm	To	otal	Limit (dBm)	Max Power	Pass or Fa
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Liinii (udin)	(W)	Pass UI F
5260	19.5	31.4	17.9	18.9	18.2	205.4	23.1	24.0		PASS
5300	19.5	30.0	17.7	18.5	17.8	189.9	22.8	24.0	0.205	PASS
5320	16.5	23.3	15.1	14.9	15.0	94.9	19.8	24.0		PASS
5500	19.5	22.8	18.2	17.4	17.2	173.5	22.4	24.0		PASS
5600	19.5	24.5	18.4	18.5	18.0	203.1	23.1	24.0	0.205	PASS
5700	19.0	25.5	18.9	18.3	17.8	205.5	23.1	24.0		PASS
						-		1		1
Frequency	99% <sup>4</sup>	Total	Р	'SD <sup>2</sup> dBm/MF	Ηz	Tota	IPSD	Li	mit	Pass or F
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 <sup>3</sup>	1 433 011
5260	17.1	23.1	5.9	6.7	5.9	12.5	10.95	11.0	11.0	PASS
5300	17.1	22.8	5.4	6.3	5.5	11.3	10.52	11.0	11.0	PASS
5320	16.9	19.8	3.0	2.5	2.8	5.7	7.54	11.0	11.0	PASS
5500	16.9	22.4	6.1	5.0	5.0	10.4	10.17	11.0	11.0	PASS
5600	17.0	23.1	6.0	6.3	5.7	12.0	10.78	11.0	11.0	PASS
5700	17.0	23.1	6.7	6.2	5.7	12.6	10.99	11.0	11.0	PASS
Nul. 1		er measured	• •	5	· ·					
Note 1:		, VB=3 MHz,	sample det	ector, power	averaging or	i (transmitted	i signal was (	continuous) a	and power in	tegration
Nete 2	over 50 MHz			attinga upod i	for output no					
Note 2:		sing the same 0 the limit for					na gain as th		oirn allowod	ic
							0			
Note 3:		. The limits a								
		ated from the ed value exce					anuwiuin) by	more than 3	ub by the an	iouni inal
Note 4:		idth measure				1% of spar	rand VB > -3	VDR		
NULC 4.		ystems the to							f the individu	ial chains (
		. The antenr								
		MIMO device	•					•		•
Note 5:		he highest ga	•						0	
		signals are o								
				e gain and to				inits) of the g		





	An ATA company		
Client:	Ruckus Wireless	Job Number:	J73710
Model	Model: Dalmatian	T-Log Number:	T73803
wouer.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

#### Run #2: Peak Excursion Measurement

Elliott

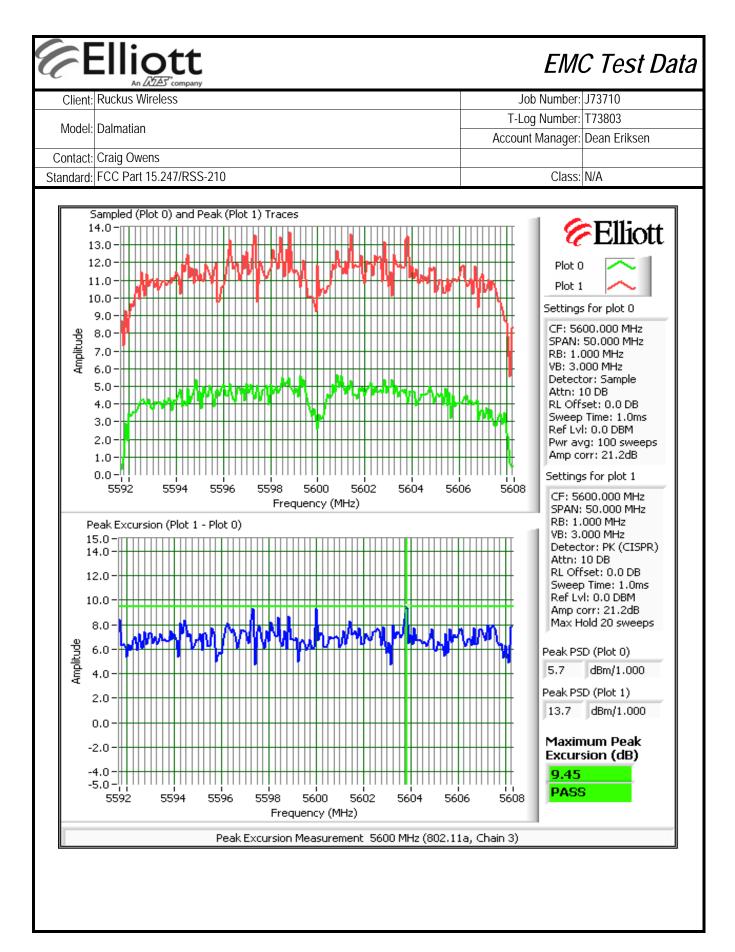
Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180		13.0	5260	9.4	13.0	5500	9.1	13.0
5200		13.0	5300	9.0	13.0	5600	9.5	13.0
5240		13.0	5320	9.4	13.0	5700	9.4	13.0

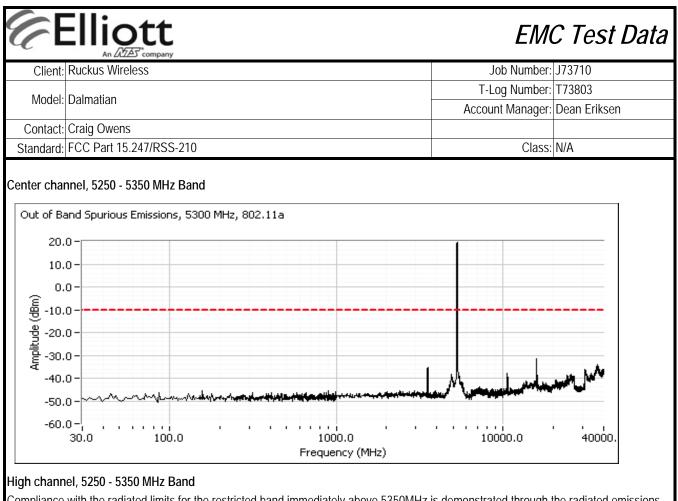
#### Plots Showing Peak Excursion

Trace A: RBW = 1MHz, VBW = 3MHz, Peak hold Trace B: Same settings as used for power/PSD measurements (RBW = 1 MHz, VBW = 3MHz, Integrated **average** power)

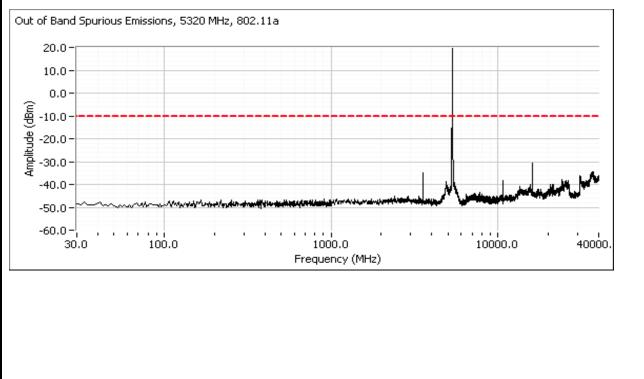


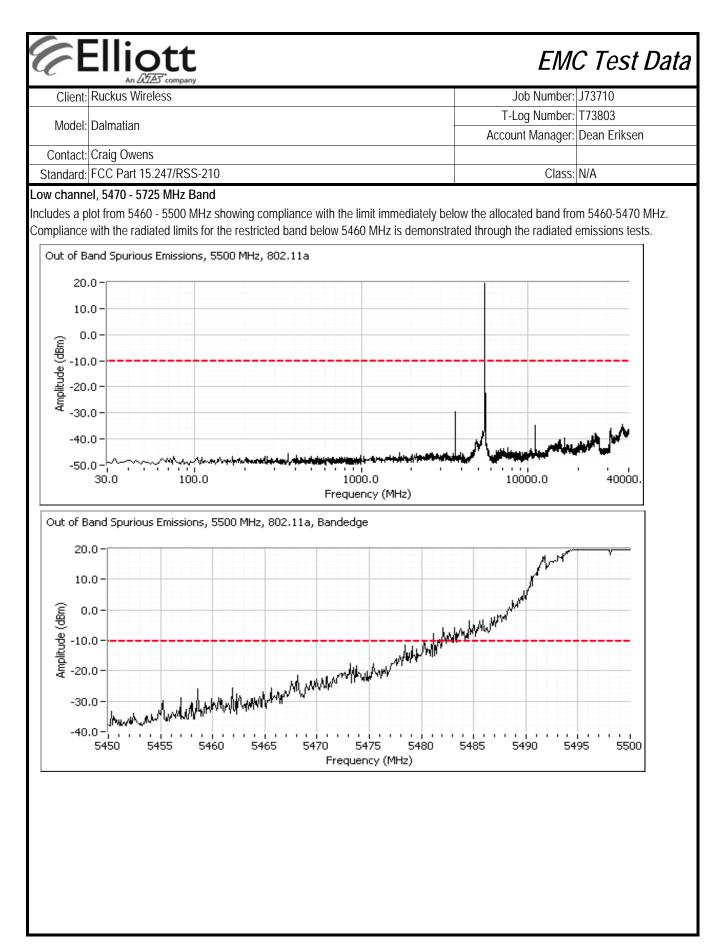


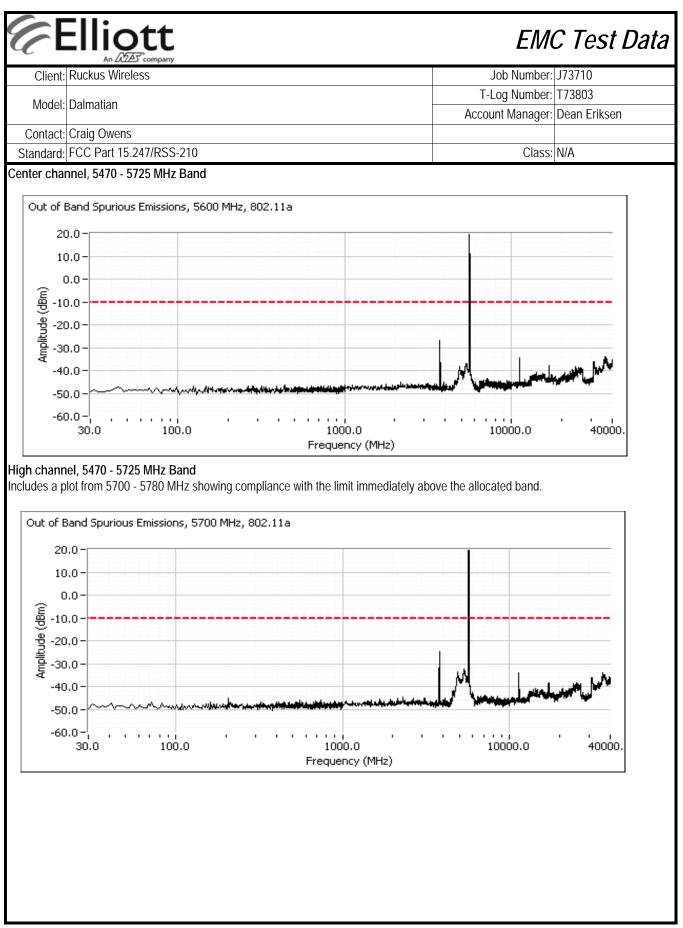
Model Dalmatian T-Log	EM	C Test Da
Model:       Dalmatian       Account         Contact:       Craig Owens       Standard:       FCC Part 15.247/RSS-210         Run #3:       Out Of Band Spurious Emissions - Antenna Conducted         AllMO Devices:       Antenna gain used is the effective gain calculated in the power section of this data she all chains transmitting simultaneously and connected to the analyzer via a combiner. Unused ports of the appropriate load (50 ohms).         Number of transmit chains:       3         Maximum Antenna Gain:       3.0 dBi         Spurious Limit:       -27.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz Average Limit (RB=1MHz, V-10.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz Peak Limit (RB=1MHz, V-10.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz Peak Limit (RB=1MHz)         vote 1:       -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine con known at these frequencies.         Atte 2:       All spurious signals below 1GHz are measured during digital device radiated emissions test lote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR View 2.520.0 Signals within the restricted bands of 15.205 are subject to a limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)       -20.0 - 10.0 -	Job Number:	: J73710
Contact:       Craig Owens         Standard:       FCC Part 15.247/RSS-210         tun #3:       Out Of Band Spurious Emissions - Antenna Conducted         IIMO Devices:       Antenna gain used is the effective gain calculated in the power section of this data she         II chains transmitting simultaneously and connected to the analyzer via a combiner. Unused ports of the approrpiate load (50 ohms).       3         Number of transmit chains:       3         Maximum Antenna Gain:       3.0 dBi         Spurious Limit:       -27.0 dBm/MHz erip         Limit Used On Plots       -30.0 dBm/MHz         Limit Used On Plots       Note 1:         Limit Used On Plots       -30.0 dBm/MHz         Nore than 50MHz from the bands and that are close to the limit are made to determine con known at these frequencies.         Iote 2:       All spurious signals below TGHz are measured during digital device radiated missions test lote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR lote 4:         If the device is for outdoor use then the -27dBm erip limit also applies in the 5150 - 5250 M lote 5:         Signals that fall in the restricted bands of 15.205 are subject to a limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         Out of Band Spurious Emissions, 5260 MHz, 802.11a         Quo       -10.0         Quo	Log Number: unt Manager:	: T73803 : Dean Eriksen
Standard:       FCC Part 15.247/RSS-210         tun #3:       Out Of Band Spurious Emissions - Antenna Conducted         IIMO Devices:       Antenna gain used is the effective gain calculated in the power section of this data she         II chains transmitting simultaneously and connected to the analyzer via a combiner. Unused ports of the appropriate load (50 ohms).       Number of transmit chains:         Number of transmit chains:       3         Maximum Antenna Gain:       3.0 dBi         Spurious Limit:       -27.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz         Average Limit (RB=1MHz, V       -10.0 dBm/MHz         Limit Used On Plots       Note 1:         -30.0 dBm/MHz       Peak Limit (RB=1MHz, V         -10.0 dBm/MHz       Fequencies.         Iote 1:       The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine con known at these frequencies.         Iote 2:       All spurious signals below 1GHz are measured during digital device radiated emissions test liote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR liote 4:         If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M liote 5:         Signals that fall in the restrict		
IIMO Devices: Antenna gain used is the effective gain calculated in the power section of this data shell chains transmitting simultaneously and connected to the analyzer via a combiner. Unused ports of the appropriate load (50 ohms).         Number of transmit chains:       3         Maximum Antenna Gain:       3.0 dBi         Spurious Limit:       -27.0 dBm/MHz eirp         Limit Used On Plots Note 1:       -30.0 dBm/MHz         Average Limit (RB=1MHz)       -10.0 dBm/MHz         Nown at these frequencies.       -10.0 dBm/MHz         Iote 1:       Consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field si more than 50MHz from the bands and that are close to the limit are made to determine con known at these frequencies.         Iote 2:       All spurious signals below 1GHz are measured during digital device radiated emissions test lote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR lote 4:         If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M lote 5:         Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Vetos Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         Quo_         Quo_         Quo_         Quo_         Quo_	Class	: N/A
II chains transmitting simultaneously and connected to the analyzer via a combiner. Unused ports of the appropriate load (50 ohms).           Number of transmit chains:         3           Maximum Antenna Gain:         3.0 dBi           Spurious Limit:         -27.0 dBm/MHz eirp           Limit Used On Plots         -30.0 dBm/MHz           Note 1:         -30.0 dBm/MHz           Iote 1:         The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine con known at these frequencies.           Iote 2:         All spurious signals below 1GHz are measured during digital device radiated emissions test for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M lote 5:           Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR lote 4:           If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M lote 5:           Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.           Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)           ow channel, 5250 - 5350 MHz Band           Out of Band Spurious Emissions, 5260 MHz, 802.11a           20.0           9           9           9           9           9           9 </td <td>sheet. The r</td> <td>plots were obtained</td>	sheet. The r	plots were obtained
Maximum Antenna Gain:       3.0 dBi         Spurious Limit:       -27.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz         Average Limit (RB=1MHz, V       -10.0 dBm/MHz         Point 1:       -30.0 dBm/MHz         Average Limit (RB=1MHz, V       -10.0 dBm/MHz         Point 1:       -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine com known at these frequencies.         Note 1:       Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR lote 4:         If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MI lote 5:         Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         Que -       -0.0 -         Que -       -0.0 - <td< td=""><td></td><td></td></td<>		
Spurious Limit:       -27.0 dBm/MHz eirp         Limit Used On Plots       -30.0 dBm/MHz       Average Limit (RB=1MHz, V10.0 dBm/MHz         Note 1:       The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine com known at these frequencies.         Note 1:       The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine com known at these frequencies.         Note 3:       Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR livet 4:         If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MI tote 5:         Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         0:00 - 0:00		
Limit Used On Plots <sup>Note 1</sup> : -30.0 dBm/MHz Average Limit (RB=1MHz, V -10.0 dBm/MHz Peak Limit (RB=VB=1MHz) The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field sl more than 50MHz from the bands and that are close to the limit are made to determine com known at these frequencies. Note 2: All spurious signals below 1GHz are measured during digital device radiated emissions test Note 3: Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR Note 4: If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M Note 5: Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209. Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz) cow channel, 5250 - 5350 MHz Band Out of Band Spurious Emissions, 5260 MHz, 802.11a 0.0 - 0.0 - 0		
Limit Used On Piots       -10.0 dBm/MHz       Peak Limit (RB=VB=1MHz)         Intervention of the state of the s	- \/D 101-\	,
Iote 1:       consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field st more than 50MHz from the bands and that are close to the limit are made to determine conknown at these frequencies.         Iote 2:       All spurious signals below 1GHz are measured during digital device radiated emissions test lote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR lote 4:       If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M lote 5:         Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.       Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         cow channel, 5250 - 5350 MHz Band       Out of Band Spurious Emissions, 5260 MHz, 802.11a       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -       0.0 -       0.0 -         0.0 -       0.0 -       0.0 -       0.0 -       0.0 -       0.0 -	-	I
Interference       More than 50MHz from the bands and that are close to the limit are made to determine com known at these frequencies.         Interference       All spurious signals below 1GHz are measured during digital device radiated emissions test limit are subject to a limit of -17dBm EIR limit are subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of -17dBm EIR limit at a subject to a limit of 15.205 M limit at a subject to a limit of 15.205 M limit at a subject to the limit of 15.209.         Interference       If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M limit at a subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)       Now channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a       0.0 - 0.	nts is adjuste	ed to take into
more than SUMHZ from the bands and that are close to the limit are made to determine con known at these frequencies. <u>Jote 2:</u> All spurious signals below 1GHz are measured during digital device radiated emissions test <u>Jote 3:</u> Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR <u>Jote 4:</u> If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M Jote 5: Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209. <u>Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)</u> Low channel, 5250 - 5350 MHz Band Out of Band Spurious Emissions, 5260 MHz, 802.11a 20.0 <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u>10.0</u> <u></u>	d strength m	easurements for sig
ote 2:       All spurious signals below 1GHz are measured during digital device radiated emissions test ote 3:         Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR ote 4:       If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M ote 5:         Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.       Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band       Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -       0.0 -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         99 - 20.0 -       -         90 -       -         90 -       -         91 -       -         92 -       -         92 -       -         93 -       -         94 -       -         95 -       -         96 -       -         97 -       -         97 -       -         97 -       -         97 -       -	compliance a	is the antenna gain
ote 3:       Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIR         ote 4:       If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 M         ote 5:       Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -       0.0 -         0.0 -       0.0 -		
ote 4:       If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MI         ote 5:       Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -         0.0 -		
Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.         Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -         0.0 -		
Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)         ow channel, 5250 - 5350 MHz Band         Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -         10.0 -         0.0 -         90 -         -         91 -         92 -         92 -         93 -         91 -         92 -         91 -         92 -         92 -         93 -         90 -         91 -         92 -         93 -         91 -         92 -         92 -         93 -         91 -         92 -         93 -         94 -         95 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 -         97 - <t< td=""><td></td><td></td></t<>		
ow channel, 5250 - 5350 MHz Band Out of Band Spurious Emissions, 5260 MHz, 802.11a 20.0 - 10.0 - 0.0 - (mg) -10.0 - 99 -20.0 - 99 -20.0 - 10.0		
Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -         10.0 -         0.0 -         0.0 -         99 -20.0 -         99 -20.0 -         99 -30.0 -	-	
Out of Band Spurious Emissions, 5260 MHz, 802.11a         20.0 -         10.0 -         0.0 -         0.0 -         99         -20.0 -         99         -30.0 -		
20.0- 10.0- 0.0-		
10.0- 0.0- (mg) -10.0- 		
10.0- 0.0- (mg) -10.0- 		
0.0- (mg) -10.0- 		
-40.0 -		1 4.
I	يعامد ال	
-50.0		• ··· · ···
-60.0		
		40000.

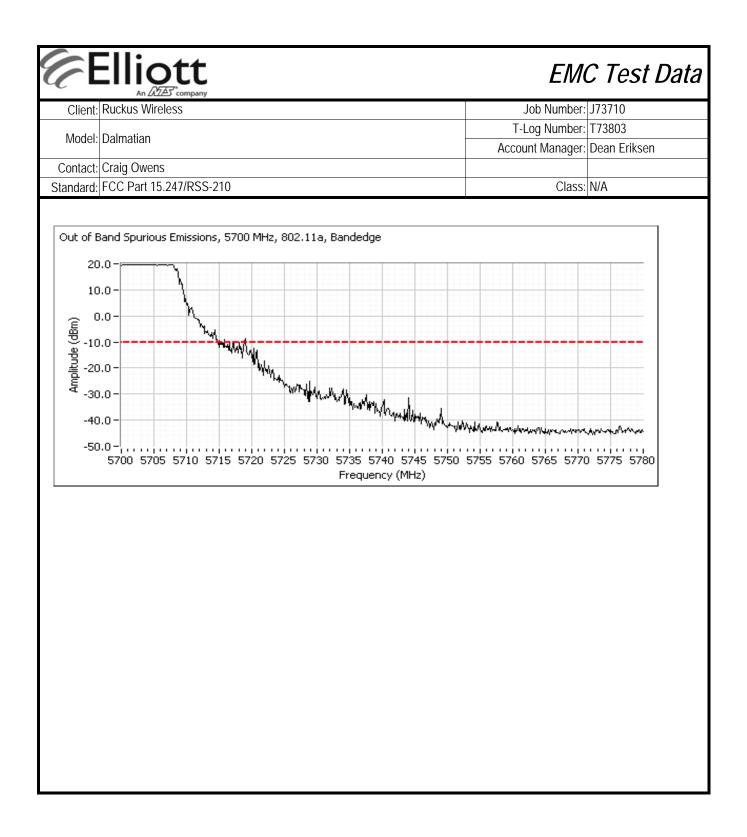


Compliance with the radiated limits for the restricted band immediately above 5350MHz is demonstrated through the radiated emissions tests.









nd FCC 15 Measurem ndwidth and	ents	-	
Measurem	ents	NII)	
Measurem	ents	-	ions
rm final qualification	n testing of th	e EUT with re	espect to the
Config Change:	None		
ling the measureme 18.7 °C			
30 %			
Limit	Pass / Fail	Result /	Margin
5.407(a) (1), (2)	Pass		
			· /
15.407	-	33.2	MHz
RSS 210	-	19.1	MHz
15.407(a) (6)	Pass	12.9	dB
15.407(b)	Pass		
	Config Change: EUT Voltage: ort, the antenna poing the measurement 18.7 °C 36 % Limit 5.407(a) (1), (2) 5.407(a) (1), (2) 15.407 RSS 210 15.407(a) (6)	Limit       Pass / Fail         5.407(a) (1), (2)       Pass         5.407(a) (1), (2)       Pass         15.407       -         RSS 210       -         15.407(a) (6)       Pass	Config Change: None EUT Voltage: 120V/60Hz         ort, the antenna port of the EUT was connect ing the measurement system. All measurement 18.7 °C 36 %         18.7 °C 36 %         19.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11.1 10.1 (2)         11

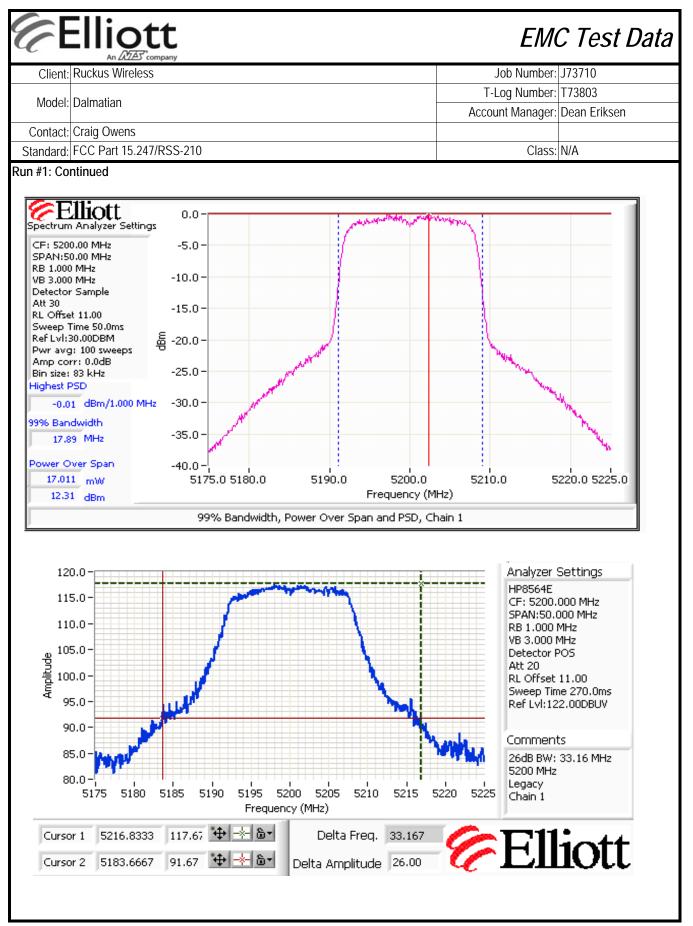
Job Number: J73710

T-Log Number: T73803

Client: Ruckus Wireless

Model: Dalmatian

Client:	Ruckus Wire	eless						Job Number:	J73710	
Madal	Delmetion						T-	Log Number:	T73803	
wodel:	Dalmatian						Accou	unt Manager:	Dean Erikse	en
	Craig Owen:									
Standard:	FCC Part 15	5.247/RSS-21	0					Class:	N/A	
Run #1: Ba	ndwidth, Ou	tput Power a	and Power s	spectral Den	isity					
			Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>	1		
	Antenna	a Gain (dBi):	3	3	3	No	3.0			
	7	a can (abiji	0	0	0	110	0.0	J		
requency	Software	26dB BW	Measure	ed Output Po	wer <sup>1</sup> dBm	To	otal	Limit (dBm)	Max Power	Pass or F
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	сили (авти)	(W)	Pass of F
5180	14.0	40.0	12.0	10.8	11.9	43.4	16.4	17.0		PASS
5200	14.0	33.2	12.3	11.4	10.7	42.5	16.3	17.0	0.045	PASS
5240	14.0	34.0	12.1	11.0	12.1	44.9	16.5	17.0		PASS
Fraguanau	<b>99</b> % <sup>4</sup>	Total		PSD <sup>2</sup> dBm/Mł	1-	Tota	I PSD		mit	
Frequency	99% BW	Power								Pass or F
(MHz) 5180	18.7	16.4	Chain 1 -1.0	Chain 2 -1.6	Chain 3 -0.5	mW/MHz 2.4	dBm/MHz 3.8	FCC 4.0	RSS 210 <sup>3</sup> 7.0	PASS
5200	18.6	16.3	0.0	-1.2	-1.9	2.4	3.8	4.0	7.0	PASS
5240	19.1	16.5	-0.3	-1.6	-0.6	2.5	4.0	4.0	7.0	PASS
Note 2: Note 3: Note 4:	For RSS-21 10dBm/MHz PSD (calcula the measure 99% Bandw	sing the same 0 the limit for 2. The limits a ated from the ed value exce idth measure ystems the to	the 5150 - 5 re also corre measured p eds the ave d in accorda	5250 MHz ba ected for insta power divideo rage by more ince with RS	nd accounts ances where I by the mea than 3dB. S GEN - RB	for the anten the highest r sured 99% b > 1% of spar	measured va andwidth) by n and VB >=3	lue of the PS more than 3 BxRB	D exceeds to dB by the an	ne average nount that
Note 5:	linear terms) mode of the the limits is t	). The anteni MIMO device the highest g antennas are	na gain used e. If the sigr ain of the ind	I to determine hals on the ne dividual chair	e the EIRP a on-coherent l is and the EI	nd limits for F between the f RP is the sur	PSD/Output   transmit chai n of the prod	oower dependens then the group of gain a	ds on the op gain used to	erating determine



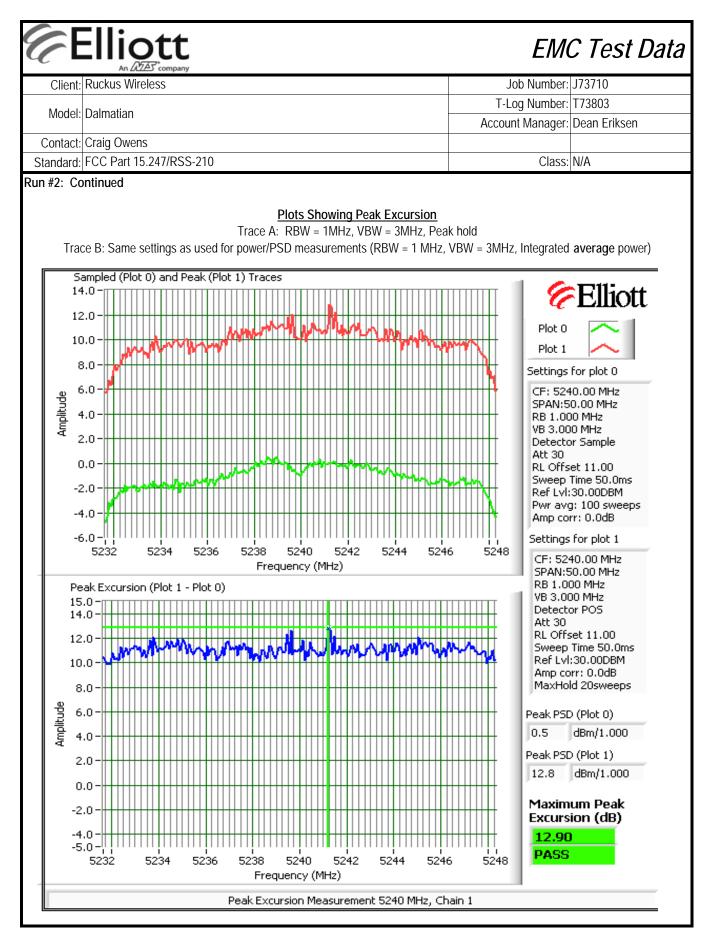


	An ZAZZA' company		
Client:	Ruckus Wireless	Job Number:	J73710
Model	Model: Dalmatian	T-Log Number:	T73803
MOUEI.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

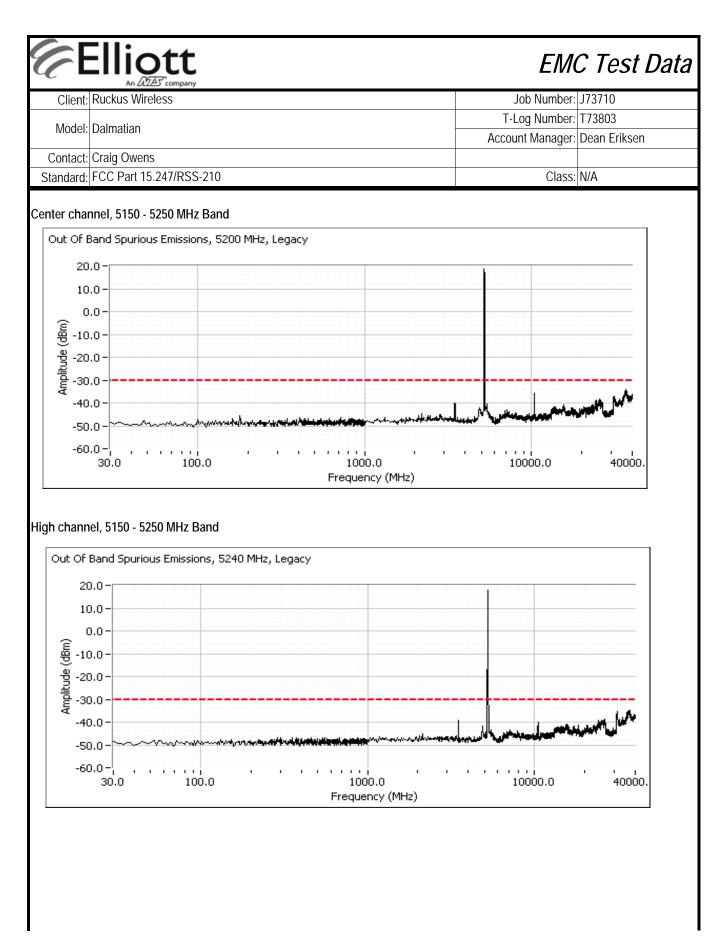
#### Run #2: Peak Excursion Measurement

#### Device meets the requirement for the peak excursion

Freq	Peak Excursion(dB)		
(MHz)	Value	Limit	
5180	11.9	13.0	
5200	12.5	13.0	
5240	12.9	13.0	



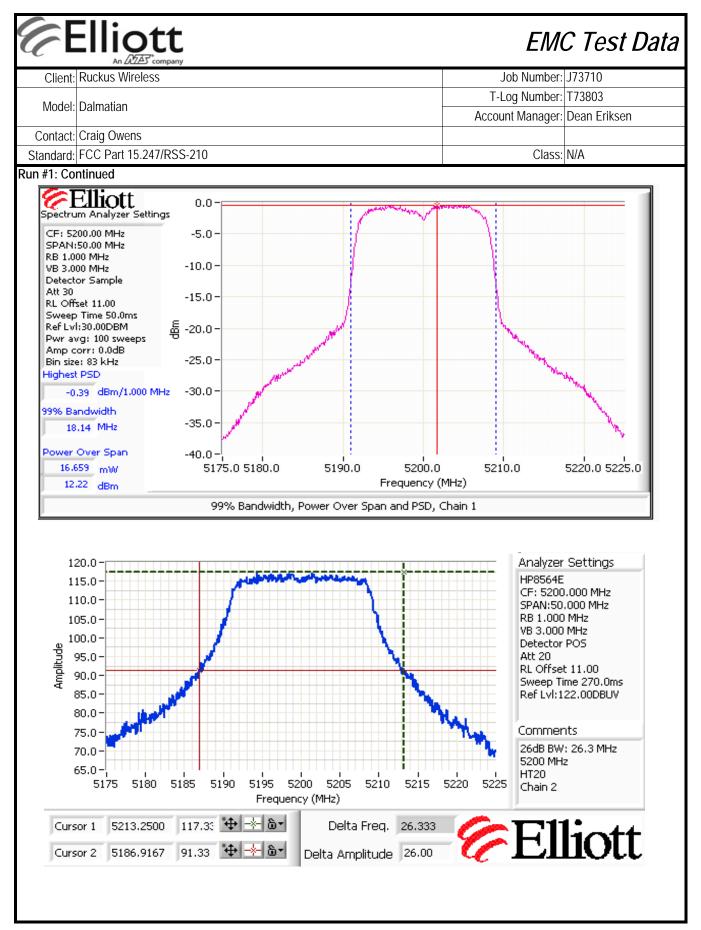
	Elliott				EM	
Client	Ruckus Wireless				Job Number	r: J73710
				-	-Log Number	
Model:	Dalmatian				•	r: Dean Eriksen
Contact:	Craig Owens				<u></u> j	
	FCC Part 15.247/RSS-210				Class	s: N/A
	ut Of Band Spurious Emissions - Anter	nna Conducted				-
l chains tra	ces: Antenna gain used is the effective g ansmitting simultaneously and connected iate load (50 ohms). Number of transmit chains: Maximum Antenna Gain: Spurious Limit:	to the analyzer via a 3.0 dBi -27.0 dBm/MHz	combiner. U eirp	Inused ports	of the combi	ner were terminat
	Limit Used On Plots Note 1:	-30.0 dBm/MHz -10.0 dBm/MHz	0	•		<u>z</u> )
ote 1:	The -27dBm/MHz limit is an eirp limit. T consideration the maximum antenna gai more than 50MHz from the bands and th	n (limit = -27dBm - ar	ntenna gain).	Radiated fi	eld strength n	neasurements for
	known at these frequencies.					
ote 2:	All spurious signals below 1GHz are me					
ote 3:	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8	325 Band edge are su	ubject to a lim	it of -17dBr	n EIRP	
	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o	325 Band edge are su 27dBm eirp limit also f 15.205 are subject t	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10 0	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10 0	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the - Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10 0	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the - Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3:           ote 4:           ote 5:           ow chann           Out Of E           20           10           0           0           0           0           0           0           0	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the - Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 - .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10 0	All spurious signals below 1GHz are me Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the - Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 - .0 - .0 - .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	
ote 3: ote 4: ote 5: ow chann Out Of E 20 10 0 (wgp) -10 -20 physical 20 10 -30	All spurious signals below 1GHz are me. Signals within 10MHz of the 5.725 or 5.8 If the device is for outdoor use then the - Signals that fall in the restricted bands o Plots Showing el, 5150 - 5250 MHz Band Band Spurious Emissions, 5180 MHz, Leg .0 - .0 - .0 - .0 - .0 - .0 -	325 Band edge are su -27dBm eirp limit also f 15.205 are subject t g Out-Of-Band Emis:	ubject to a lim applies in th to the limit of	it of -17dBm e 5150 - 52 15.209.	n EIRP 50 MHz band.	



Œ	Elliott An DEAT company	EM	C Test Data
	Ruckus Wireless	Job Number:	J73710
Model	Dalmatian	T-Log Number:	T73803
wouer.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

	210		T-L	Job Number:	173710		
Contact: Craig Owens Standard: FCC Part 15.247/RSS-2	210			a a Ni wala a a	5/5/10		
Contact: Craig Owens Standard: FCC Part 15.247/RSS-2	210			-og ivumber:	T73803		
Standard: FCC Part 15.247/RSS-2	210		Account Manager: Dean Eri				
R	210						
				Class:	N/A		
Power, PSD,	SS-210 (LELAN Antenna Po , Peak Excursion,	ort Measurem	nents	-	sions		
	ive of this test session is to on listed above.	perform final qualification	on testing of th	e EUT with r	espect to the		
Date of Test: 2/19/2008 Test Engineer: Rafael Vare Test Location: SVOATS #	d: 1 e: None e: 120V/60Hz						
allow for the external attenuators and Ambient Conditions:							
	Temperature: Rel. Humidity:	18.7 °C 36 %					
Summary of Results							
Summary of Results			Pass / Fail	Result /	/ Margin		
Run #	Rel. Humidity:	36 % Limit 15.407(a) (1), (2)	Pass / Fail Pass	16.2 dBm	(0.042 W)		
ummary of Results       Run #       1       Powe       1       PSE	Rel. Humidity: Test Performed er, 5150 - 5250MHz D, 5150 - 5250MHz	36 % Limit 15.407(a) (1), (2) 15.407(a) (1), (2)		16.2 dBm 3.9 dB	(0.042 W) m/MHz		
ummary of Results       Run #     Power       1     Power       1     PSE       1     2	Rel. Humidity: Test Performed er, 5150 - 5250MHz D, 5150 - 5250MHz 26dB Bandwidth	36 % Limit 15.407(a) (1), (2) 15.407(a) (1), (2) 15.407	Pass	16.2 dBm 3.9 dB 26.3	(0.042 W) m/MHz MHz		
Run #         Powe           1         Powe           1         PSE           1         2           1         2           1         2	Rel. Humidity: Test Performed er, 5150 - 5250MHz D, 5150 - 5250MHz	36 % Limit 15.407(a) (1), (2) 15.407(a) (1), (2)	Pass	16.2 dBm 3.9 dB 26.3 18.9	(0.042 W) m/MHz		

Client:	Ruckus Wire	eless						Job Number:	J73710	
Model	: Dalmatian					T-	Log Number:	T73803		
							Ассон	unt Manager:	Dean Erikse	en
	Craig Owen									
		5.247/RSS-21						Class:	N/A	
Run #1: Ba	ndwidth, Ou	tput Power a	and Power s	spectral Der	nsity					
			Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>	1		
	Antenna	a Gain (dBi):	3	3	3	no	3.0			
					1					1
requency	Software Setting	26dB BW		d Output Po	-		otal	Limit (dBm)	Max Power	Pass or F
<u>(MHz)</u> 5180	13.5	(MHz) 33.1	Chain 1 11.9	Chain 2 11.5	Chain 3 9.2	mW 38.0	dBm 15.8	17.0	(W)	PASS
5200	13.5	26.3	11.9	10.9	9.2	41.6	15.0	17.0	0.042	PASS
5240	13.5	27.5	11.3	10.8	10.7	37.0	15.7	17.0		PASS
Frequency	<b>99</b> % <sup>4</sup>	Total	P	SD <sup>2</sup> dBm/MI	H7	Tota	I PSD	Li	mit	
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 <sup>3</sup>	Pass or F
5180	18.1	15.8	-0.6	-0.9	-3.1	2.2	3.4	4.0	7.0	PASS
5200 5240	18.1	16.2 15.7	-0.4	-1.2	-1.2	2.4 2.1	3.9 3.2	4.0	7.0	PASS
0740	18.9	10.7	-1.2	-1.8	-1.8	Z. I	3.Z	4.0	7.0	PASS
		er measured z. VB=3 MHz.					t signal was i	continuous) a	and power in	egration
Note 1:	RBW=1MHz over <b>50</b> MHz Measured u For RSS-210 10dBm/MHz PSD (calcula	z, VB=3 MHz, <u>z</u> sing the same 0 the limit for z. The limits a ated from the	e analyzer so the 5150 - 5 re also corre measured p	ector, power ettings used 250 MHz ba ected for inst power divideo	averaging or for output po nd accounts ances where d by the mea	wer. for the anten the highest i	na gain as th measured va	ne maximum lue of the PS	eirp allowed D exceeds tl	is ne average
Note 1: Note 2: Note 3:	RBW=1MHz over 50 MHz Measured u For RSS-21 10dBm/MHz PSD (calcula the measure 99% Bandw	z, VB=3 MHz, <u>z</u> sing the same 0 the limit for z. The limits a	e analyzer so the 5150 - 5 re also corre measured p reds the aver d in accorda	ector, power ettings used 250 MHz ba ected for inst power divideo rage by more ince with RS	for output po nd accounts ances where d by the mea e than 3dB. S GEN - RB	wer. for the anten the highest i sured 99% b	na gain as th measured va andwidth) by	ne maximum lue of the PS more than 3 BxRB	eirp allowed D exceeds tl dB by the an	is ne average nount that



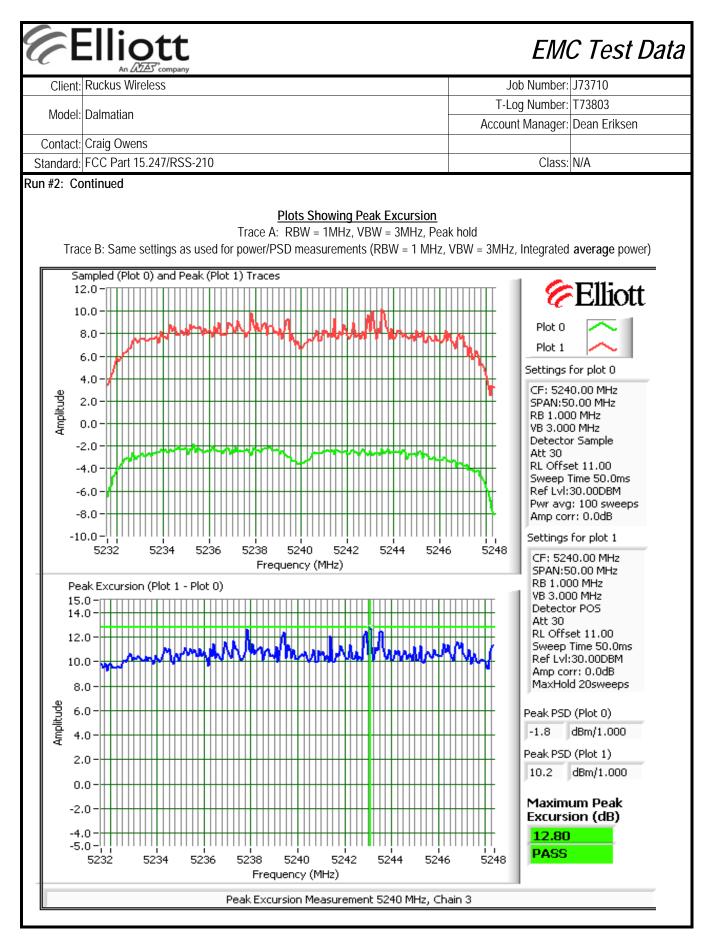


	An ZAZZO company		
Client:	Ruckus Wireless	Job Number:	J73710
Model: Dalmatian	T-Log Number:	T73803	
MOUEI.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

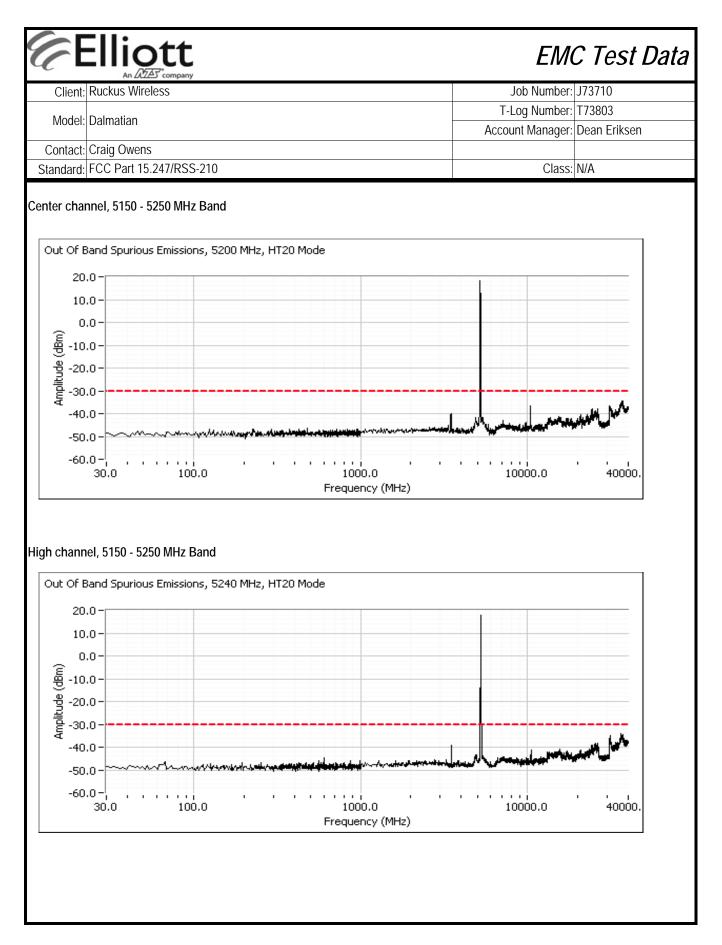
#### Run #2: Peak Excursion Measurement

#### Device meets the requirement for the peak excursion

Freq	Peak Excursion(dB)		
(MHz)	Value	Limit	
5180	12.2	13.0	
5200	12.5	13.0	
5240	12.8	13.0	



Client	: Rucku	s Wireless				Job	Number	: J73710	
Model	: Dalma	tian						: T73803	
						Account N	lanager	: Dean Eri	ksen
Contact							01		
		Part 15.247/RSS-210					Class	: N/A	
IIMO Devi Il chains tr	ices: A ransmitti	and Spurious Emissions - Ante ntenna gain used is the effective ing simultaneously and connected d (50 ohms). Number of transmit chains:	gain calculated in the p						
		Maximum Antenna Gain:	3.0 dBi						
		Spurious Limit:	-27.0 dBm/MHz e	eirp					
		Limit Used On Plots Note 1:	-30.0 dBm/MHz -10.0 dBm/MHz	•	-		3=10Hz	)	
ote 1:	consid more t	7dBm/MHz limit is an eirp limit. T leration the maximum antenna ga han 50MHz from the bands and th at these frequencies.	in (limit = -27dBm - an	tenna gain)	. Radiate	ed field str	ength m	easureme	nts for sig
ata Di			ocured during digital a	louioo rodio	tod omic	ione toet			
ote 2: ote 3:	All spu	irious signals below 1GHz are me							
ote 3: ote 4:	All spu Signals	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5. device is for outdoor use then the	825 Band edge are sul -27dBm eirp limit also	bject to a lii applies in t	mit of -17 he 5150 ·	dBm EIRP			
ote 3:	All spu Signals	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o	825 Band edge are sul -27dBm eirp limit also	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann	All spu Signal: If the c Signal: nel, 5150	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chanr	All spu Signal: If the c Signal: nel, 5150	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.4 levice is for outdoor use then the s that fall in the restricted bands of <u>Plots Showing</u>	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chanr Out Of 2	All spu Signal: If the c Signal: hel, 5150 Band S	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1	All spu Signal: If the c Signal: nel, 515( Band S 0.0 –	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1	All spu Signal: If the c Signal: hel, 5150 Band S	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1	All spu Signal: If the c Signal: nel, 515( Band S 0.0 –	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1	All spu Signal: If the c Signal: Del, 5150 Band 5 0.0 – 0.0 – 0.0 –	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1	All spu Signal: If the c Signal: Del, 5150 Band S 0.0 - 0.0 - 0.0 - 0.0 -	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out Of 2 1 (wgp -1 ) -2 -3	All spu Signal: If the c Signal: Del, 5150 Band S 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			
ote 3: ote 4: ote 5: ow chann Out of 2 1 (mgp) -1 -2 -3 -4	All spu Signal: If the c Signal: Del, 5150 Band 5 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -	rious signals below 1GHz are me s within 10MHz of the 5.725 or 5.1 device is for outdoor use then the s that fall in the restricted bands o <u>Plots Showing</u> 0 - 5250 MHz Band	825 Band edge are su -27dBm eirp limit also of 15.205 are subject to g Out-Of-Band Emiss	bject to a lii applies in t o the limit o	mit of -17 he 5150 - f 15.209.	dBm EIRP 5250 MH			



Contact: Craig Owen	S					
Standard: FCC Part 15	5.247/RSS-210			Class:	N/A	
Powe	RSS-210 (LELAN Antenna Po er, PSD, Peak Excursion,	ort Measurem	ents		ions	
Test Specific Detai Objective:	Is The objective of this test session is to specification listed above.	perform final qualificatior	n testing of th	e EUT with re	espect to the	
Date of Test: Test Engineer: Test Location:	Rafael Varelas	Config. Used: Config Change: EUT Voltage:	None			
analyzer or power meter	guration nducted emissions from the EUT's anter via a suitable attenuator to prevent ove enuators and cables used.				•	
Ambient Condition	S: Temperature: Rel. Humidity:	18.7 °C 36 %				
Summary of Result	S					
Run #	Test Performed	Limit	Pass / Fail	Result /	Margin	
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	16.3 dBm	(0.043 W)	
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	0.4 dBr	n/MHz	
1	26dB Bandwidth	15.407	-	51.3	MHz	
1	99% Bandwidth	RSS 210	-	37.2	MHz	
2	Peak Excursion Envelope	15.407(a) (6)	Pass	12.97	/ dB	
3	Antenna Conducted - Out of Band Spurious	15.407(b)	Pass	All emission: -27dBm/N		
Modifications Made	e During Testing ade to the EUT during testing					
Deviations From The No deviations were made	ne Standard e from the requirements of the standard	j.				

Client: Ruckus Wireless

Model: Dalmatian

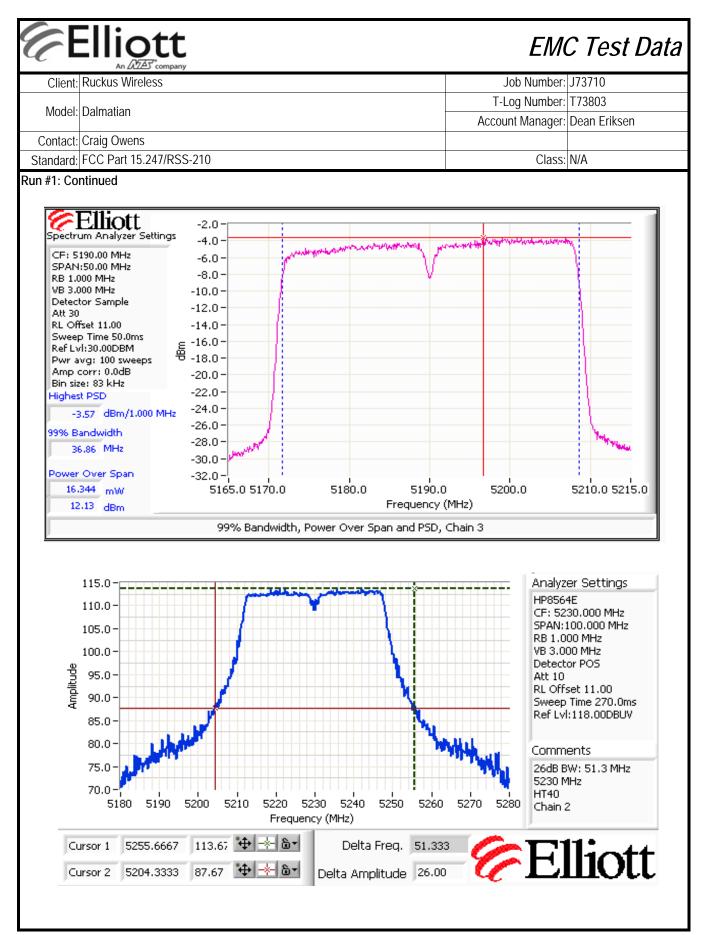
EMC Test Data

Job Number: J73710

Account Manager: Dean Eriksen

T-Log Number: T73803

Client	Ruckus Wire	eless						Job Number:	: J73710	
Model	: Dalmatian						Log Number:			
							Ассон	unt Manager:	Dean Erikse	en
	Craig Owen: FCC Part 15		0					Class	NI/A	
	ndwidth, Ou			noctral Don	city			Class:	N/A	
un #1. Da	nuwiun, ou				isity					
			Chain 1	Chain 2	Chain 3	Coherent	Effective <sup>5</sup>			
	Antenna	a Gain (dBi):	3	3	3	No	3.0			
Frequency	Software	26dB BW	Maasura	d Output Po	ver <sup>1</sup> dBm	To	otal		Max Power	
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Limit (dBm)	(W)	Pass or F
5190	12.5	79.1	9.2	8.0	12.1	30.8	14.9	17.0	0.043	PASS
5230	14.0	51.3	12.5	11.8	10.1	43.0	16.3	17.0	0.043	PASS
Frequency	<b>99</b> % <sup>4</sup>	Total		SD <sup>2</sup> dBm/Mł	17	Tota	I PSD	Li	mit	
(MHz)	BW	Power	۲ Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 <sup>3</sup>	Pass or F
5190	37.2	14.9	-6.5	-7.6	-3.6	0.8	-0.8	4.0	7.0	PASS
5230	37.1	16.3	-3.1	-4.4	-5.9	1.1	0.4	4.0	7.0	PASS
Note 3: Note 4:	10dBm/MHz PSD (calcula the measure	0 the limit for 2. The limits a ated from the ad value exce idth measure	re also corre measured p eds the aver	ected for insta ower divideo age by more	ances where I by the meas e than 3dB.	the highest r sured 99% b	measured va andwidth) by	lue of the PS more than 3	D exceeds th	ne average
NOLE 4.	For MIMO s	ystems the to ). The antenr	ital output po na gain used	ower and tota to determine	Il PSD are ca e the EIRP a	alculated forn nd limits for F	n the sum of PSD/Output ہ transmit chai	the powers o power depen ns then the g	ds on the op	erating determine



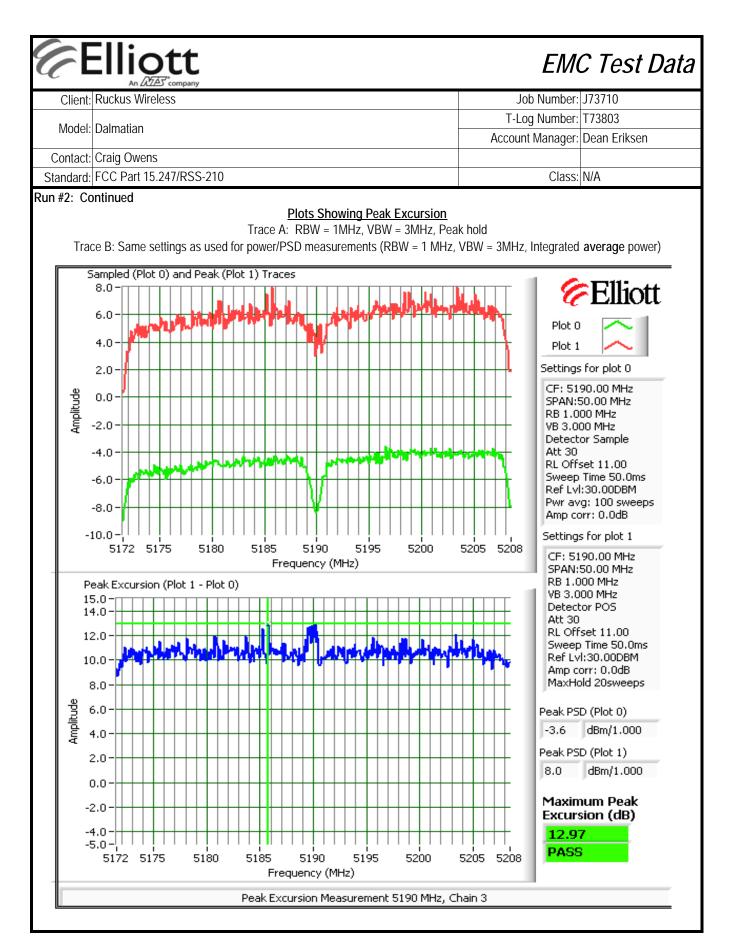


An 2422 company			
Client:	Ruckus Wireless	Job Number:	J73710
Model	Dalmatian	T-Log Number:	T73803
MOUEI.	Daimatian	Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	Class:	N/A

#### Run #2: Peak Excursion Measurement

#### Device meets the requirement for the peak excursion

Freq	Peak Excu	ursion(dB)	Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5190	12.97	13.0	5260		13.0	5500		13.0
5200		13.0	5300		13.0	5600		13.0
5230	12.9	13.0	5320		13.0	5700		13.0



Contact: ( itandard: F n #3: Out MO Device chains trar	Dalmatian Craig Owens FCC Part 15.247/RSS-210 Of Band Spurious Emissions - An es: Antenna gain used is the effectiv		T-Log Number: Account Manager: Class:	Dean Eriksen
Contact: ( itandard: F n #3: Out MO Device chains trar	Craig Owens FCC Part 15.247/RSS-210 Of Band Spurious Emissions - An es: Antenna gain used is the effectiv		Account Manager:	Dean Eriksen
Standard: F n #3: Out MO Device chains trar	CC Part 15.247/RSS-210 Of Band Spurious Emissions - An es: Antenna gain used is the effectiv		Class:	N/A
n #3: Out MO Device chains trar	Of Band Spurious Emissions - An es: Antenna gain used is the effectiv		Class:	N/A
<b>MO Devic</b> e chains trar	es: Antenna gain used is the effectiv			
chains trar				
	te load (50 ohms).	e gain calculated in the power se ted to the analyzer via a combine	•	
	Number of transmit chains:			
	Maximum Antenna Gain:			
	Spurious Limit:		ge Limit (RB=1MHz, VB=10Hz)	
	Limit Used On Plots Note 1:	-10.0 dBm/MHz Peak I		
te 1: r k	The -27dBm/MHz limit is an eirp limit. consideration the maximum antenna g nore than 50MHz from the bands and known at these frequencies.	gain (limit = -27dBm - antenna ga d that are close to the limit are m	ain). Radiated field strength me ade to determine compliance a	easurements for sign
	All spurious signals below 1GHz are r			
	Signals within 10MHz of the 5.725 or f the device is for outdoor use then th			
	Signals that fall in the restricted bands			
w channel	l, 5150 - 5250 MHz Band			
Out Of Ba	nd Spurious Emissions, 5190 MHz, I	HT40 Mode		
20.0	) –			
10.0	)-			
0.0	) –			
ල 10.0 - ජී -20.0				
벽				
-				
-40.0			and	
	)			
-50.0				

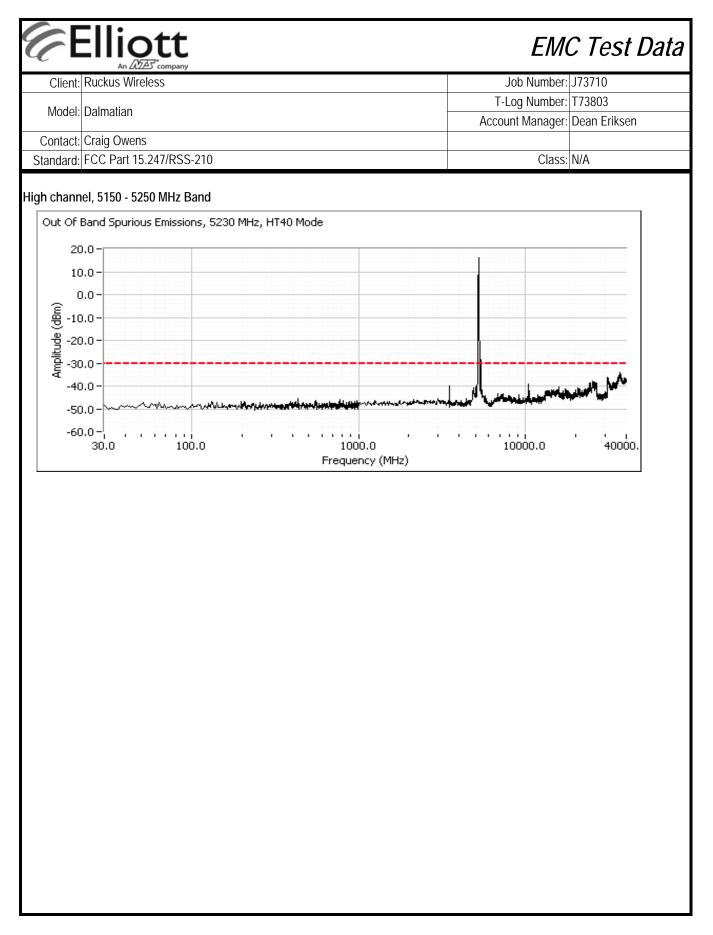


EXHIBIT 3: Photographs of Test Configurations

EXHIBIT 4: Proposed FCC ID Label & Label Location

EXHIBIT 5: Detailed Photographs of Ruckus Wireless Model 7962Construction

## EXHIBIT 6: Operator's Manual for Ruckus Wireless Model 7962

### EXHIBIT 7: Block Diagram of Ruckus Wireless Model 7962

EXHIBIT 8: Schematic Diagrams for Ruckus Wireless Model 7962

# EXHIBIT 9: Theory of Operation for Ruckus Wireless Model 7962

EXHIBIT 10: RF Exposure Information